TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO STREET , CORNING , CA 96021

Architect:
NICHOLS, MELBURG, & ROSSETTO
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Redding, CA 96002
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(530) 222-3538 Fax

Civil:
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888 Manzanita Court Suite 101
Chico, CA 95926
(530) 894-3500

Landscape:
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Structural:
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Mechanical & Plumbing:
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2727 Bechelli Lane
Redding, CA 96002
(530) 232-6160

Electrical & Low Voltage:
TK1SC
11870 Pierce Street, Suite 160
Riverside, CA 92505
(951) 299-4160

CODES / STANDARD

APPLICABLE CODES:

ALL WORK PERFORMED & PRODUCTS FURNISHED SHALL COMPLY AS APPLICABLE WITH THE LATEST REGULATIONS OF:

- CITY OF RED BLUFF MUNICIPAL CODE
- TITLE 19 C.C.R, PUBLIC SAFETY; STATE FIRE MARSHAL REGULATIONS
- 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
  (PARTIAL LIST - SEE CBC CHAPTER 35 & CFC CHAPTER 45)

PROJECT DATA

1. BUILDING DATA:
   EXISTING FIRST FLOOR: 9,185 SQ. FT.
   EXISTING SECOND FLOOR: 1,103 SQ. FT.
   TOTAL CONDITIONED AREA: 10,288 SQ. FT.
2. CONSTRUCTION CLASSIFICATION: TYPE V - B
3. OCCUPANCY GROUP: A-3
4. ASSESSORS PARCEL NUMBER: 071-121-006
5. SPRINKLER SYSTEM: YES____ NO _X_

CONTRACTOR NOTICE

1. THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT ("CONSTRUCTION DOCUMENTS") INCLUDE THE DRAWINGS AND THE SPECIFICATIONS. BOTH ARE INTEGRAL COMPONENTS OF THE CONTRACT FOR CONSTRUCTION BETWEEN BUILDING OWNER, ("OWNER") AND THE GENERAL CONTRACTOR ("CONTRACTOR").
2. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS TO DESCRIBE A COMPLETE, FUNCTIONAL, CODE-COMPLIANT PROJECT TO BE CONSTRUCTED. THE CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANY PORTION SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT SPECIFICALLY COVERED IN THE CONSTRUCTION DOCUMENTS SHALL NONETHELESS BE REQUIRED, IF IT IS CONSISTENT THEREWITH OR IS REASONABLY INFERABLE THEREFROM AS BEING NECESSARY OR APPROPRIATE TO PRODUCE THE INTENDED RESULTS.
3. ANYTHING MENTIONED IN THE SPECIFICATIONS BUT NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS BUT NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH.
4. THE CONSTRUCTION DOCUMENTS ARE INTENDED TO BE USED TOGETHER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ACCESS TO THE COMPLETE BID SET CONSTRUCTION DOCUMENTS PACKAGE, AND ANY ADDENDA THERETO, TO ANY AND ALL NECESSARY SUB-CONTRACTORS, MATERIAL OR EQUIPMENT SUPPLIERS, ETC., AS NECESSARY TO PROVIDE A COMPLETE, RESPONSIVE BID. THE USE OF ANY PORTION OF THE CONSTRUCTION DOCUMENTS IN THE ABSENCE OF THE COMPLETE PACKAGE SHALL BE AT THE SOLE RISK OF THE USER.
5. THE CONSTRUCTION DOCUMENTS APPLY IN THEIR ENTIRETY TO ALL CONTRACTOR FORCES. THE ARCHITECT AND ITS SUB-CONSULTANTS HAVE SHOWN VARIOUS PORTIONS OF THE WORK ON SEPARATE SHEETS AND/OR CLASSIFICATIONS OF DRAWINGS, AND HAVE SPECIFIED VARIOUS PORTIONS OF THE WORK IN SEPARATE SECTIONS OF THE SPECIFICATIONS. SUCH SEPARATIONS SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITS ARE WHOLLY BETWEEN THE CONTRACTOR AND ITS SUB-CONTRACTORS. THE COMPLETED PROJECT SHALL INCLUDE ALL WORK DEPICTED IN THE CONSTRUCTION DOCUMENTS. THE OWNER WILL CONSIDER THE CONTRACTOR AS THE SOLE PROVIDER OF ALL WORK NECESSARY TO COMPLETE THE PROJECT, TO THE EXTENT SUCH WORK IS REQUIRED BY OR REASONABLY INFERABLE FROM THE CONSTRUCTION DOCUMENTS.
6. SHOULD THE CONTRACTOR DISCOVER A CONFLICT, ERROR, OR DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, HE/SHE SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING, BEFORE PROCEEDING WITH WORK AFFECTED THEREBY. PROCEEDING WITH ANY SUCH WORK WITHOUT FIRST GIVING SUCH TIMELY NOTICE SHALL CONSTITUTE A WAIVER BY THE CONTRACTOR OF ANY RELATED CLAIM(S) FOR ADDITIONAL TIME OR MONEY.

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL APPLICABLE ADOPTED ORDINANCES AND BUILDING AND FIRE PREVENTION CODES. REFER TO THESE DRAWINGS FOR A LIST OF KNOWN APPLICABLE CODES. ANY DISCREPANCIES BETWEEN THESE CODES AND THE CONSTRUCTION DOCUMENTS SHOULD IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THE CONSTRUCTION DOCUMENTS SHALL NOT BE CONSTRUED AS TO PERMIT WORK THAT DOES COMPLY WITH THESE CODES.
2. DIMENSIONS SHALL TAKE PRECEDENCE OVER ITEMS AS GRAPHICALLY DEPICTED IN THESE DRAWINGS. DIMENSIONS ARE TO FACE OF STUDS OR SLAB, AND TO CENTERLINES OF STEEL MEMBERS, UNLESS NOTED OTHERWISE ON DRAWINGS. DO NOT SCALE DRAWINGS. DIMENSIONS NOTED AS "CLEAR" (CLR) ARE TAKEN TO THE FACE OF FINISH MATERIALS. VERIFY DIMENSIONS OF PREFABRICATED AND MANUFACTURED ITEMS AND COORDINATE ROUGH OPENINGS ACCORDINGLY.
3. WHERE CONSTRUCTION DETAILS ARE NOT SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK SHOWN ON DRAWINGS. IF SIMILAR WORK IS NOT DETAILED IN DRAWINGS, WORK SHALL FOLLOW INDUSTRY STANDARDS AND MANUFACTURERS RECOMMENDATIONS AS ACCEPTABLE TO THE ARCHITECT.
4. ALL CONSTRUCTION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURERS LATEST PUBLISHED SPECIFICATIONS AND INSTRUCTIONS. ALL DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND INSTRUCTIONS AND THE CONTRACT DOCUMENTS PREPARED BY THE ARCHITECT AND ITS CONSULTANTS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO COMMENCING WORK.
5. VERIFY ALL DIMENSIONS, EXISTING UTILITY LOCATIONS, AND EXISTING CONDITIONS AFFECTED BY THE CONTRACT PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES OR INCONSISTENCIES FOUND SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION BEFORE WORK PROCEEDS.
6. ALL SUBCONTRACTORS ARE REQUIRED TO BE LICENSED WITH THE CITY BUILDING DEPARTMENT.
7. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND ALL OTHER PERSONS DURING CONSTRUCTION.

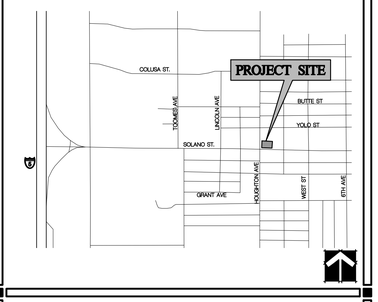
DRAWING INDEX

DWG. #	DESCRIPTION
GENERAL	
G001	TITLE SHEET
G010	CALGREEN CHECKLIST
G011	CALGREEN CHECKLIST
G012	CALGREEN CHECKLIST
G110	LIFESAFETY & SIGNAGE FLOOR PLAN
G212	TYPICAL ACCESSIBILITY REQUIREMENTS
CIVIL	
C10	TITLE SHEET
C2.0	EXISTING TOPOGRAPHY/DEMOLITION PLAN - BASE BID
C2.1	EXISTING TOPOGRAPHY/DEMOLITION PLAN - ADDITIVE ALTERNATE #2
C3.0	GRADING PLAN - BASE BID
C3.1	GRADING PLAN - ADDITIVE ALTERNATE #2
C4.0	UTILITY PLAN
C5.0	PAVING PLAN - BASE BID
C5.1	PAVING PLAN - ADDITIVE ALTERNATE #2
C6.0	DETAIL SHEET
C6.1	DETAIL SHEET
C7.0	EROSION AND SEDIMENT CONTROL PLAN
LANDSCAPE	
L.1	PLANTING PLAN
L.2	IRRIGATION PLAN
L.3	IRRIGATION DETAILS
ARCHITECTURAL	
A001	SITE DEMOLITION PLAN
A010	SITE PLAN
A020	ENLARGED SITE PLANS
A060	SITE DETAILS
A061	SITE DETAILS
A062	SOLAR CARPORT FRAMING PLAN AND ELEVATIONS - ALTERNATE #3
A101	FIRST FLOOR DEMOLITION PLAN
A102	SECOND FLOOR DEMOLITION PLAN
A120	ROOF DEMOLITION PLAN
A200	BASEMENT FLOOR PLAN
A201	FIRST FLOOR PLAN
A202	SECOND FLOOR PLAN AND LOWER ROOF PLAN
A220	ROOF PLAN
A231	FIRST FLOOR REFLECTED CEILING PLAN - DEMOLITION & NEW
A232	SECOND FLOOR REFLECTED CEILING PLAN - DEMOLITION & NEW
A240	ENLARGED RESTROOM FLOOR PLAN & INTERIOR ELEVATIONS
A241	ENLARGED KITCHEN FLOOR PLAN & INTERIOR ELEVATIONS
A300	EXTERIOR ELEVATIONS
A400	BUILDING SECTIONS
A401	BUILDING SECTIONS
A402	BUILDING SECTIONS

DWG. #	DESCRIPTION
ARCHITECTURAL, CONT.	
A410	ENLARGED SECTIONS
A411	ENLARGED SECTIONS
A500	INTERIOR ELEVATIONS
A501	INTERIOR ELEVATIONS
A700	FINISH SCHEDULE
A710	DOOR & WINDOW SCHEDULES
A720	CONSTRUCTION ASSEMBLIES
A740	EXTERIOR WINDOW DETAILS
A741	EXTERIOR WINDOW DETAILS
A801	EXTERIOR DETAILS
A901	INTERIOR DETAILS
A902	CEILING DETAILS
A910	INTERIOR DETAILS
A960	SIGNAGE DETAILS
INTERIOR DESIGN	
ID201	FIRST FLOOR FINISH FLOOR PLAN
ID202	SECOND FLOOR FINISH FLOOR PLAN
STRUCTURAL	
S110	STRUCTURAL GENERAL NOTES
S120	TESTING & SPECIAL INSPECTIONS NOTES
S211	PARTIAL FOUNDATION PLAN
S212	PARTIAL FOUNDATION & FLOOR FRAMING PLANS
S220	PARTIAL LOW ROOF FRAMING PLAN
S221	PARTIAL LOW ROOF FRAMING PLAN
S230	PARTIAL HIGH ROOF FRAMING PLAN
S410	TYPICAL FOUNDATION DETAILS & SECTIONS
S411	FOUNDATION & FRAMING DETAILS
S610	TYPICAL WOOD FRAMING DETAILS & SECTIONS
S620	FRAMING & EQUIPMENT ANCHORAGE DETAILS
S621	FRAMING & EQUIPMENT ANCHORAGE DETAILS
S622	FRAMING DETAILS
MECHANICAL	
M100	MECHANICAL LEGEND AND SCHEDULES
M200	MECHANICAL DEMOLITION FIRST FLOOR PLAN
M201	MECHANICAL DEMOLITION ROOF PLAN
M210	MECHANICAL ZONING PLAN
M211	MECHANICAL FIRST FLOOR PLAN
M212	MECHANICAL SECOND FLOOR PLAN
M240	MECHANICAL ROOF PLAN
M300	MECHANICAL DETAILS
M301	MECHANICAL DETAILS
M400	MECHANICAL CONTROLS
M500	TITLE 24 COMPLIANCE FORMS

DWG. #	DESCRIPTION
PLUMBING	
P100	PLUMBING LEGEND AND SCHEDULES
P200	PLUMBING DEMOLITION PLAN
P210	PLUMBING FIRST FLOOR PLAN
P211	PLUMBING SECOND FLOOR PLAN
P220	ENLARGED PLUMBING PLANS
P240	PLUMBING ROOF PLAN
P300	PLUMBING DETAILS
P301	PLUMBING DETAILS
ELECTRICAL	
E000	PG&E CONSTRUCTION DRAWING
E0.1	SYMBOLS LIST
E1.0	SITE ELECTRICAL PLAN
E2.1	LIGHTING PLAN - BASEMENT
E2.2	LIGHTING PLAN - LEVEL 1
E2.3	LIGHTING PLAN - LEVEL 2
E2.4	POWER & COMMUNICATIONS PLAN - BASEMENT
E2.5	POWER & COMMUNICATIONS PLAN - LEVEL 1
E2.6	POWER & COMMUNICATIONS PLAN - LEVEL 2
E2.7	MECHANICAL POWER PLAN - LEVEL 1
E2.8	MECHANICAL POWER PLAN - LEVEL 2
E2.9	ROOF PLAN
E2.10	ELECTRICAL ENLARGED PLAN
E3.0	SINGLE LINE DIAGRAM
E3.1	PANEL SCHEDULES
E3.2	POWER SYSTEMS STUDY
E4.1	LIGHTING FIXTURE SCHEDULE
E4.2	DISTRIBUTED LIGHTING CONTROL SCHEDULE & PRODUCT SPECS
E4.3	DISTRIBUTED LIGHTING CONTROL SPECIFICATIONS
E4.4	SEQUENCE OF OPERATIONS
E4.5	TITLE 24
E4.6	TITLE 24
E4.7	TITLE 24
E5.0	MISCELLANEOUS DETAILS
E5.1	MISCELLANEOUS DETAILS
E5.2	TECHNOLOGY DIAGRAMS
E5.3	TECHNOLOGY DETAILS
ED2.1	ELECTRICAL DEMOLITION PLAN - BASEMENT
ED2.2	ELECTRICAL DEMOLITION PLAN - LEVEL 1
ED2.3	ELECTRICAL DEMOLITION PLAN - LEVEL 2
FA0.0	CENTRAL MONITORING SYSTEM SPEC & SYMBOL LIST
FA0.1	FIRE ALARM DETAILS
FA2.1	FIRE ALARM FLOOR PLAN - BASEMENT
FA2.2	FIRE ALARM FLOOR PLAN - LEVEL 1
FA2.3	FIRE ALARM FLOOR PLAN - LEVEL 2
PHOTOVOLTAIC	
PV-2.1	PV LAYOUT - PARKING AREA - ADDITIVE ALTERNATE #3
PV-3.2	PV SINGLE LINE DIAGRAM - ADDITIVE ALTERNATE #3
PV-4.2	EQUIPMENT DATA SHEETS - ADDITIVE ALTERNATE #3

VICINITY MAP



PROJECT NARRATIVE

THE PROJECT CONSISTS OF A COMPLETE RENOVATION OF THE INTERIOR OF THE CORNING VETERAN'S HALL, LOCATED AT 1620 SOLANO STREET IN CORNING, CALIFORNIA. IMPROVEMENTS INCLUDE DEMOLITION OF ALL INTERIOR FINISHES, NEW MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS, NEW INSULATION, NEW INTERIOR FINISHES THROUGHOUT, NEW KITCHEN EQUIPMENT, NEW ACCESSIBLE LIFT AND SELECTIVE REPLACEMENT OF ROOFING SYSTEMS. EXTERIOR IMPROVEMENTS WILL INCLUDE NEW COVERED ENTRIES, PAVING, SITE UTILITIES, LANDSCAPING AND A PHOTO VOLTAIC ARRAY.

ADDITIVE ALTERNATES

ADDITIVE ALTERNATE #1 KITCHEN EQUIPMENT - SEE SHEET A241.

ADDITIVE ALTERNATE #2: NORTHEAST HALF OF PARKING - SEE SHEET A010.

ADDITIVE ALTERNATE #3: CARPORT ROOF WITH PHOTO-VOLTAIC SOLAR ARRAY - SEE SHEET A062.

DEFERRED APPROVALS

ALL DEFERRED SUBMITTALS SHALL FIRST BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. CBC 107.3.4.2

1. FIRE ALARM SYSTEM
2. PHOTO VOLTAIC SYSTEM, INCLUDING THE SUPPORT CANOPY STRUCTURAL DESIGN

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT — KYLE MATTHEW MELBURG — C 27504 — REN. 10/31/25 — STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TITLE SHEET

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP,VS,KJM
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

G001

Login Name: Kyle M
Plot Date: October 28, 2025 - 5:55 pm
File Name: N:\Projects\6000\Cad\2021\21-6497 Tehama Co. Corning Vets Hall\Drawings\CVH - G001 TITLE SHEET.dwg
Plot By: Kyle Melburg

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES

GREEN BUILDING NOTES

- PROVIDED BY GENERAL CONTRACTOR, U.O.N
- SEE CA GREEN BUILDING CODE (GBC) FOR FULL REQUIREMENTS

A. CONSTRUCTION WASTE REDUCTION

1. CA GBC 5.408.1 - CONSTRUCTION WASTE MANAGEMENT. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH SECTION 5.408.1.1, 5.408.1.2 OR 5.408.1.3; OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT.
2. CA GBC 5.408.1.2 - WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION.
3. CA GBC 5.408.1.3 - WASTE STREAM REDUCTION ALTERNATIVE. THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED TWO POUNDS PER SQUARE FOOT OF BUILDING AREA MAY BE DEEMED TO MEET THE 65 PERCENT MINIMUM REQUIREMENT AS APPROVED BY THE ENFORCING AGENCY.
4. CA GBC 5.408.1.4 - DOCUMENTATION. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTIONS 5.408.1.1 THROUGH 5.408.1.3. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.
5. CA GBC 5.408.2 - UNIVERSAL WASTE. VERIFICATION SHALL BE PROVIDED THAT UNIVERSAL WASTE ITEMS AS SPECIFIED IN THIS SECTION AS WELL AS OTHER CALIFORNIA PROHIBITED UNIVERSAL WASTE MATERIALS ARE DISPOSED OF PROPERLY AND ARE DIVERTED FROM LANDFILLS.
6. CA GBC 5.408.3 - EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.

B. BUILDING MAINTENANCE AND OPERATION

1. CA GBC 5.410.1 - RECYCLING BY OCCUPANTS. PROVIDE READILY ACCESSIBLE AREAS THAT SERVE THE ENTIRE BUILDING AND ARE IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE, AND METALS OR MEET A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE. SEE EXCEPTIONS; COMPLY WITH "ADDITIONS" REQMNT.
2. CA GBC 5.410.2.4 - FUNCTIONAL PERFORMANCE TESTING. FUNCTIONAL PERFORMANCE TESTS SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM AND SYSTEM- TO SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. FUNCTIONAL PERFORMANCE TESTING REPORTS SHALL CONTAIN INFORMATION ADDRESSING EACH OF THE BUILDING COMPONENTS TESTED, THE TESTING METHODS UTILIZED, AND INCLUDE ANY READINGS AND ADJUSTMENTS MADE. BY G.C.
3. CA GBC 5.410.2.5 - DOCUMENTATION AND TRAINING. A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS IN CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS. BY G.C.
4. CA GBC 5.410.2.5.1 - SYSTEMS MANUAL. DOCUMENTATION OF THE OPERATIONAL ASPECTS OF THE BUILDING SHALL BE COMPLETED WITHIN THE SYSTEMS MANUAL AND DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE. BY G.C.
5. CA GBC 5.410.2.5.2 - SYSTEMS OPERATIONS TRAINING. A PROGRAM FOR TRAINING OF THE APPROPRIATE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL BE DEVELOPED AND DOCUMENTED IN THE COMMISSIONING REPORT. BY G.C.
6. CA GBC 5.410.2.6 - COMMISSIONING REPORT. A REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN AND CONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE BY DESIGN TEAM.

C. TESTING AND ADJUSTING

1. CA GBC 5.410.4 - TESTING AND ADJUSTING. A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING THE HVAC SYSTEMS WILL BE DEVELOPED AND FOLLOWED FOR HVAC SYSTEMS AND CONTROLS, INDOOR AND OUTDOOR LIGHTING CONTROLS, AND WATER HEATING SYSTEMS. TESTING AND ADJUSTING PROCEDURES WILL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS.
2. CA GBC 5.410.4.3.1 - HVAC BALANCING. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE ENFORCING AGENCY.
3. CA GBC 5.410.4.4 - REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, A FINAL REPORT OF TESTING WILL BE PROVIDED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THE SERVICES. THESE REPORTS WILL BE PROVIDED TO THE ENFORCING AGENCY.
4. CA GBC 5.410.4.5 - OPERATION AND MAINTENANCE (O & M) MANUAL. THE BUILDING OWNER OR REPRESENTATIVE WILL BE PROVIDED WITH A DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM.

D. FINISH MATERIAL POLLUTION CONTROL

1. CA GBC 5.504.4.1, ITEM 1 - ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH AIR QUALITY MANAGEMENT DISTRICT RULES PER SCAQMD RULE 1168 VOC LIMITS; SEE GBC FOR FULL REQMNTS.
2. CA GBC 5.504.4.1, ITEM 2 - AEROSOL ADHESIVES AND SMALLER UNIT SIZES OF ADHESIVES AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AT CCR TITLE 17 COMMENCING WITH SECTION 94507.
3. CA GBC 5.504.4.3 - ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH GREEN BUILDING CODE TABLE 5.504.4.3. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY.
4. CA GBC 5.504.4.4 - CARPET SYSTEMS, INCLUDING CUSHION AND ADHESIVE, TO COMPLY WITH GREEN BLDG CODE 5.504.4.4 REQUIREMENTS SUCH AS CRI GREEN LABEL PLUS AND OTHER OPTIONS LISTED.
5. CA GBC 5.504.4.5 COMPOSITE WOOD PRODUCTS - HARDWOOD PLYWOOD, PARTICLE BOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE PER GREEN BUILDING CODE TABLE 5.504.4.5. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY.
6. CA GBC 5.504.4.6 - RESILIENT FLOORING SYSTEMS SHALL COMPLY WITH THE VOC EMISSION LIMITS DEFINED IN THE 2012 CHPS CRITERIA AND LISTED ON ITS HIGH PERFORMANCE PRODUCTS DATABASE. DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.
7. CA GBC 5.504.4.7 - THERMAL INSULATION. COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

CA GBC 5.504.4.8 - ACOUSTICAL CEILINGS AND WALL PANELS. COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

E. QUALIFICATIONS

1. CA GBC 702.1 - INSTALLER TRAINING. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS.

F. COMPLIANCE FORMS AND WORKSHEETS

1. ALL COMPLIANCE FORMS AND WORKSHEETS IN CHAPTER 8 OF CA GBC FOR NON RESIDENTIAL CONSTRUCTION NEED TO BE COMPLETED BY CONTRACTOR OR SUBCONTRACTORS AND SUBMITTED TO THE ENFORCING AGENCY.

MANDATORY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL
5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS
5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

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

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

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

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

ZEV. Any vehicle certified to zero-emission standards.

CONTRACTOR TO FULFILL REQUIREMENTS OF THIS SECTION ON SITE DURING CONSTRUCTION

SECTION 5.106 SITE DEVELOPMENT

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

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

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

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

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

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

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

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

MANDATORY

X

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

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

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

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

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

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

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

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

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

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)*2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total[1]	25% of EV capable spaces[1]

1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]
Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

MANDATORY

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

X

SEE ELECTRICAL DRAWINGS FOR COMPLIANCE.

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

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS [2]

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING [1]					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting [1]	N/A	U0	U0	U0	U0
For all other outdoor lightingincluding decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING [1] (G)					
MAXIMUM ALLOWABLE GLARE RATING [1] (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING [1] (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING [1] (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING [1] (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.

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

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1 See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

X

SEE CIVIL DRAWINGS FOR DRAINAGE PATH

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

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   Exception: Additions and alterations not altering the drainage path.

N/A

DOES NOT APPLY

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

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

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of sh

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES

MANDATORY

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

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

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

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

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

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

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

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 27), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

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

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

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

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1000 gal/day.

CONTRACTOR TO FULFILL REQUIREMENTS OF THIS SECTION ON SITE DURING CONSTRUCTION

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

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

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

5.303.3.2 Urinals.

5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]

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

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

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 (mm space (inches) at 60 psi).

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 (mm space (inches) at 60 psi).

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

CONTRACTOR TO FULFILL REQUIREMENTS OF THIS SECTION ON SITE DURING CONSTRUCTION

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

X

SEE LANDSCAPE PLANS FOR COMPLIANCE.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

MANDATORY

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and bulding commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

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

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

X

FLASHING PROVIDED: SEE SHEET A9.0

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

CONTRACTOR TO FULFILL THIS REQUIREMENT ON SITE DURING CONSTRUCTION.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3, or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

CONTRACTOR TO FULFILL THIS REQUIREMENT ON SITE DURING CONSTRUCTION.

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 3013 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

CONTRACTOR TO FULFILL THIS REQUIREMENT ON SITE DURING CONSTRUCTION.

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

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

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

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

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

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

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

MANDATORY

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

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

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

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

Informational Notes:

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

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

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

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

1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

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

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

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

1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

CONTRACTOR TO FULFILL REQUIREMENTS ON SITE DURING CONSTRUCTION.

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

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

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

1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

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

1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

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

CONTRACTOR TO FULFILL THIS REQUIREMENT ON SITE DURING CONSTRUCTION.

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

5.410.4.2 (Reserved)

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

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

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

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

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

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

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

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

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

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

MANDATORY

SECTION 5.502 DEFINITIONS

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

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^0 Fahrenheit.

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

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

Note: See CCR, Title 17, Section 93120.1.

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

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

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

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

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

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

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

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

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1996); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

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

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

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

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

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O^3/g ROC).

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

PSIG. Pounds per square inch, guage.

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

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

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

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

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

N/A

NO FIREPLACES OR WOOD STOVES

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

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

N/A

HVAC SYSTEM NOT TO BE USED DURING CONSTRUCTION

SECTION 5.504 POLLUTANT CONTROL

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

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

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LICENSE STAMPS

LICENSED ARCHITECT · KYLE MATTHEW · C 27504 · RNW.10/31/25 · STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

CALGREEN CHECKLIST

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	N.T.S.
Project No.	21-6497

SHEET No.

G011

Login Name: KleinP
Plot Date: February 13, 2025 - 8:21 am
File Name: N:\Projects\6000\Cad\22\21-6497 Tehama Co. Corning Vets Hall\Drawings\CVH-CalGreen.dwg
HDR's XCHITE file

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES

MANDATORY

X

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

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

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[12]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

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

X

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

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

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[23]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150

MANDATORY

TABLE 5.504.4.3 - CONT.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

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

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

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

N/A

NO CARPET SYSTEMS

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

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

X

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

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

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

MANDATORY

X

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

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

N/A

DOES NOT APPLY

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1,2 , January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

X

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

X

SEE MECHANICAL DRAWINGS

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

Exceptions: Existing mechanical equipment.

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

X

SEE MECHANICAL DRAWINGS

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

X

SEE MECHANICAL DRAWINGS

SECTION 5.505 INDOOR MOISTURE CONTROL

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

X

SEE MECHANICAL DRAWINGS

SECTION 5.506 INDOOR AIR QUALITY

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

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

N/A

DOES NOT APPLY

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

N/A

DOES NOT APPLY

SECTION 5.507 ENVIRONMENTAL COMFORT

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

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

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

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

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

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

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

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

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

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

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

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

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

X

SEE MECHANICAL DRAWINGS

SECTION 5.508 OUTDOOR AIR QUALITY

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

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

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

MANDATORY

N/A

PROJECT DOES NOT FALL UNDER THIS CATEGORY

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

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

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

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

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

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

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

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

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

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

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

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

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

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

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

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

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

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

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

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

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

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

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

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

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

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

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

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

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

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

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

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

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

Notes:

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

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

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

703 VERIFICATIONS

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

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LICENSE STAMPS

LICENSED ARCHITECT KYLE MATTHEW KEIRN C 27504 REN. 10/31/25 STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

CALGREEN CHECKLIST

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	N.T.S.
Project No.	21-6497

SHEET No.

G012

Login Name: KevinP
Plot Date: February 13, 2025 - 8:21 am
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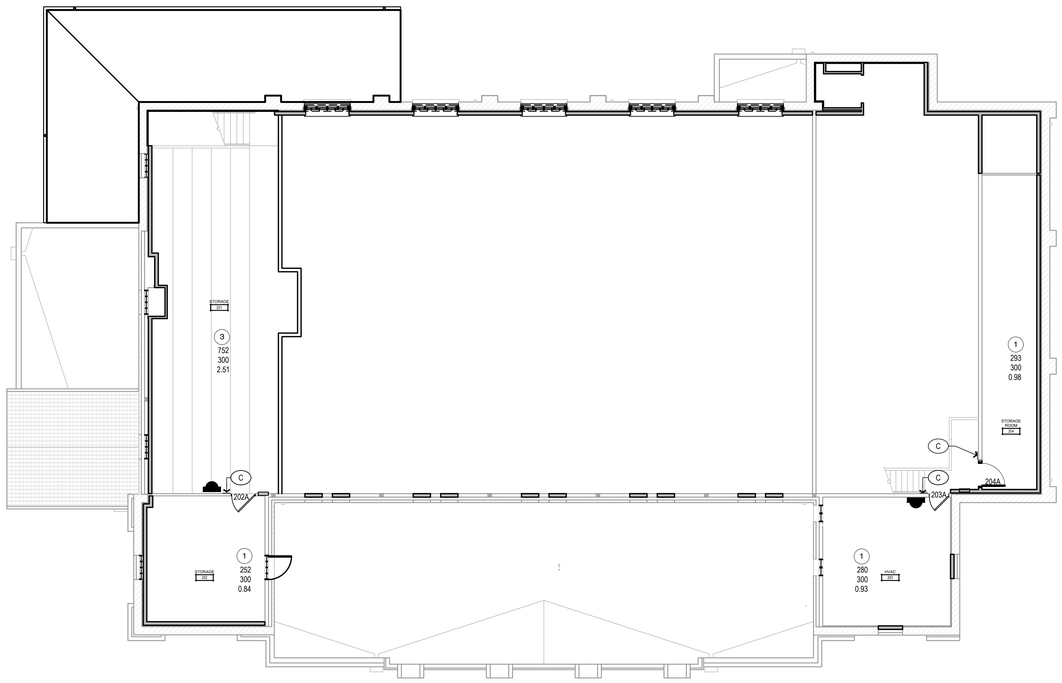
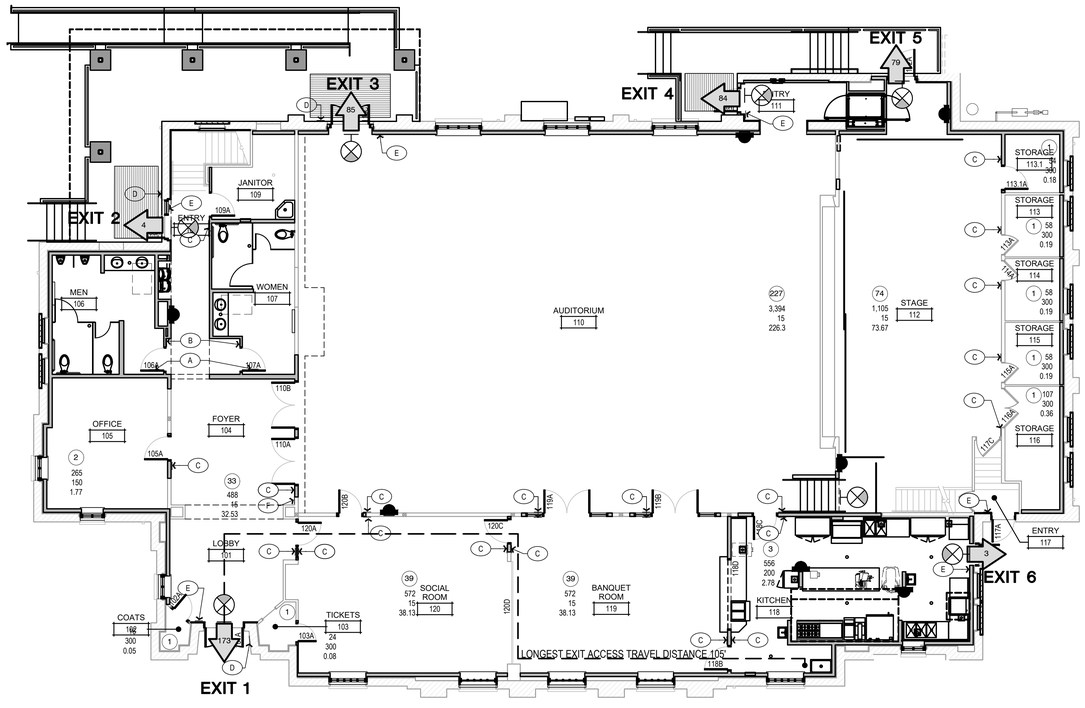


SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"



FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

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Plot Date: October 20, 2025 - 11:12 am
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CODE ANALYSIS

1. BUILDING DATA

OCCUPANCY CLASSIFICATION		A-3
CONSTRUCTION TYPE		V-B (NON-SPRINKLERED)
NUMBER OF STORIES		2 STORIES
BUILDING AREA	FIRST FLOOR:	9,185 SQ. FT.
	SECOND FLOOR:	1,,103 SQ. FT.
	CONDITIONED AREA:	10,288 SQ. FT.
ACTUAL BUILDING HEIGHT		32'

2. ALLOWABLE BUILDING AREA

BASIC ALLOWABLE BUILDING AREA
TYPE V-B NS A-3 = 6,000
(PER CBC TABLE 506.2)

MAXIMUM ALLOWABLE AREA PER STORY
Aa = [At + (NS X If)] X Sa
At = 6,000
If = 100%
NS = 6,000
Sa = 2

Aa = [6,000 + (6,000 X 1)] X 2 = 24,000 SF

ACTUAL AREA OF 1ST FLOOR = 9,158 SF < 24,000 OK

3. MEANS OF EGRESS

OCCUPANT LOAD FACTOR (PER CBC TABLE 1004.5)

ASSEMBLY AREAS	=	15
STORAGE	=	300
OFFICE	=	150
KITCHEN	=	200

MAXIMUM EXIT ACCESS TRAVEL DISTANCE WITHOUT SPRINKLER SYSTEM (PER CBC TABLE 1017.2) A = 200'

MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE WITHOUT SPRINKLER SYSTEM (PER CBC TABLE 1006.2.1) A = 75'

4. EXIT WIDTH

EXIT #	OCCUPANTS	REQ'D WIDTH	PROVIDED	
1	173	34.6"	60"	OK
2	4	0.8"	36"	OK
3	85	17"	60"	OK
4	84	16.8"	36"	OK
5	79	15.8"	42"	OK
6	3	0.6"	32"	OK

LEGEND

ROOM DATA
726 = AREA OF ROOM SQUARE FOOTAGE
7 = OCCUPANT LOAD FACTOR
103.7 = OCCUPANTS IN ROOM
10 # OF OCCUPANTS EXITING AT INDICATED LOCATION
24 # OF ROOM OCCUPANTS
PATH OF EGRESS
FIRE EXTINGUISHER

SIGN LEGEND

SEE SHEET A960 FOR ADDITIONAL SIGN INFORMATION AND NOTES

A TOILET ROOM DOOR SIGN
B ACCESSIBLE TOILET ROOM SIGN
C ROOM IDENTIFICATION SIGN
D ACCESSIBLE ENTRANCE IDENTIFICATION SIGN
E EXIT SIGN
F EXIT ROUTE SIGN

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PROJECT NAME

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VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

LIFE SAFETY & SIGNAGE FLOOR PLANS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

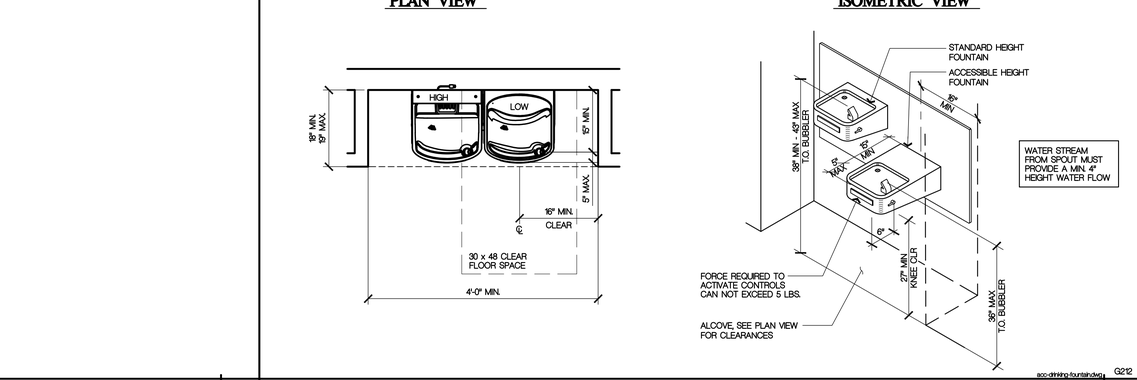
REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

G110



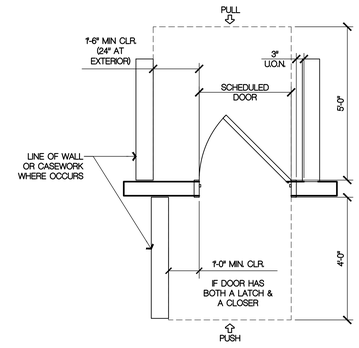
acc-drinking-fountain.dwg

G212

ACCESSIBLE DRINKING FOUNTAIN

SCALE: 3/4"=1'-0"

9



21-5850

G212

TYPICAL DOOR CLEARANCES

SCALE: 1/2"=1'-0"

5

1. ACCESSIBLE TOILET COMPARTMENT DOORS ARE TO BE EQUIPPED WITH LOOP OR U-SHAPE HANDLE IMMEDIATELY BELOW THE LATCH. CBC 11B-604&12.
2. CONTROLS FOR WATER CLOSETS, URINALS, SHOWERS AND LAVATORIES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS- FORCE. CBC 11B-309.4.
3. ALL DIMENSIONS ARE CLEAR DIMENSIONS FROM EDGE OF FIXTURE OR FACE OF FINISH (F.O.F.).
4. GENERAL CONTRACTOR TO PROVIDE STRUCTURAL SUPPORT AND/OR METAL REINFORCEMENT IN STUD WALLS AT ALL CASEWORK, CABINETS, SHELVING, EQUIPMENT, ETC.
5. ALL RECESSED SPECIALITIES SHOWN ON ELEVATIONS THAT ARE LOCATED IN FIRE RATED WALLS ARE TO BE 5-SIDED WITH 5/8" TYPE 'X' GYP BOARD.
6. FAUCET CONTROLS AND OPERATING MECHANISMS AT COMMON-USE KITCHEN SINK AREAS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NOT GREATER THAN 5 POUNDS- FORCE. CBC 11B-309.4
7. AT LEAST ONE OF EACH TYPE OF STORAGE FACILITY (CABINET, SHELVES, CLOSETS OR DRAWERS) SHALL COMPLY WITH CBC SECTION 11B-225 BY HAVING THE FOLLOWING: A CLEAR FLOOR SPACE AT LEAST 30" BY 48" THAT ALLOWS EITHER A FORWARD OR PARALLEL APPROACH SHALL BE PROVIDED; SHALL BE WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN CBC SECTION 11B-308; HAVING HARDWARE COMPLYING WITH CBC SECTION 11B-309.4 SUCH AS TOUCH LATCHES OR U-SHAPED PULLS.

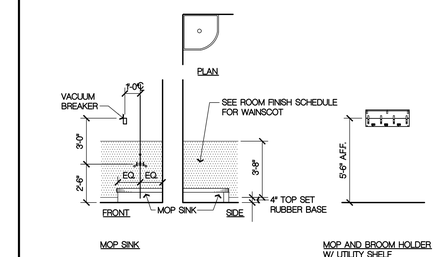
21-5850

G212

ACCESSIBILITY GENERAL NOTES

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

1



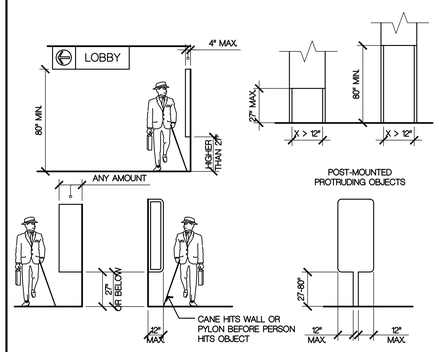
21-5850

G212

ENVIRONMENTAL SERVICES MOUNTING HEIGHTS

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

10



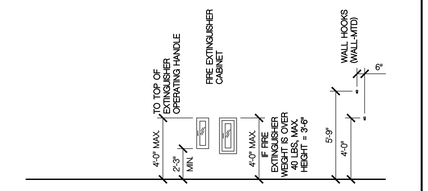
21-5850

G212

PROTRUDING OBJECTS

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

6



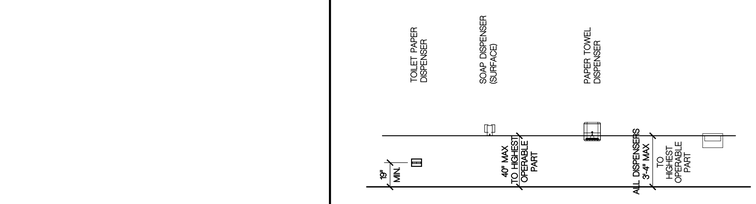
21-5850

G212

EQUIPMENT MOUNTING HEIGHTS

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

2



ACCESSORIES

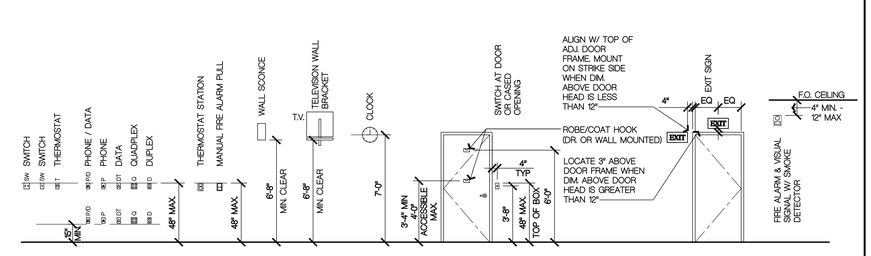
21-5850

G212

TOILET ROOM MOUNTING HEIGHTS AND CLEARANCES

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

11



21-5850

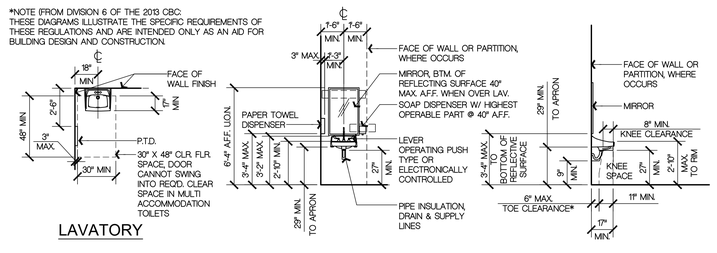
G212

ELECTRICAL DEVICES MOUNTING HEIGHTS AND CLEARANCES

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

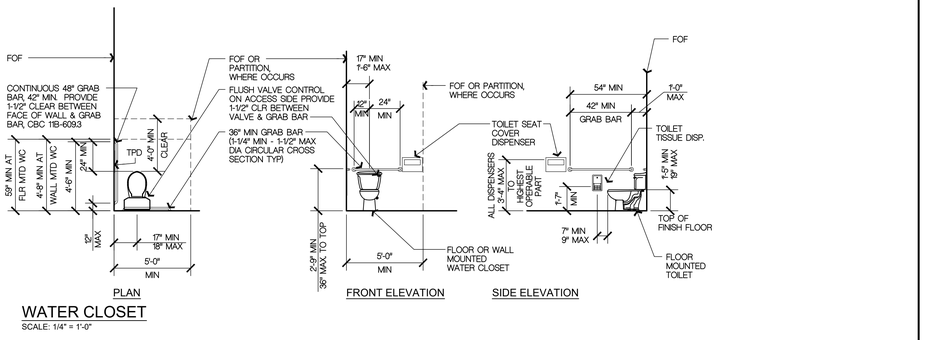
3

*NOTE (FROM DIVISION 6 OF THE 2013 CBC: THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND ARE INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION.



GRAB BAR SPACING: THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2". THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12" MIN. CBC 11B-609.3

ALL ACCESSORIES WHEN LOCATED ALONG THE PATH OF TRAVEL SHALL NOT TO PROJECT MORE THAN 4" FROM THE FINISHED WALL SURFACE WHEN LOCATED 27" ABOVE AND BELOW 80" FROM THE FINISH FLOOR PER CBC 11B-307.2



21-5850

G212

TOILET ROOM MOUNTING HEIGHTS AND CLEARANCES

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

4

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LICENSED ARCHITECT
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REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TYPICAL ACCESSIBILITY REQUIREMENTS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	AS NOTED
Project No.	21-5497

SHEET No.

G212

Login Name: KimP
Plot Date: February 13, 2025 - 8:51 am
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Xrefs: acp.dwt xref_acad.dwg xref_ctb.ctb xref_notes.dwg xref_plot.dwg xref_sheet.dwg xref_title.dwg

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE, AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS, INCLUDING THOSE FURNISHED BY SUB-CONTRACTORS. HE WILL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF ANY DISCREPANCIES.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF THE CALTRANS STANDARD CONSTRUCTION SPECIFICATIONS, BUTTE COUNTY IMPROVEMENT STANDARDS, AND TO THE APPLICABLE PROVISIONS OF THE CURRENT EDITION OF THE CALIFORNIA BUILDING CODE.
3. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES ON THIS SHEET.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS AS REQUIRED.
5. NOTE REGARDING EARTHWORK: THIS SITE WAS DESIGNED TO CONFORM TO EXISTING CONDITIONS. ROBERTSON ERICKSON DOES NOT WARRANT OR GUARANTEE A BALANCED SITE. FACTORS AFFECTING A SITE BALANCE INCLUDE SOILS FACTOR (VOLUME CHANGE), TYPE AND EXTENT OF UTILITY TRENCHES, SUBGRADE DEPTHS, PAD GRADING, AND LANDSCAPE TREATMENTS. THE CONTRACTOR SHOULD MAKE HIS OWN ESTIMATES OF EARTH-WORK QUANTITIES AND RELY ON THEM. THE CONTRACTOR SHOULD ALSO MAKE PROVISIONS FOR AN IMBALANCE BY IDENTIFYING ON-SITE OR OFF-SITE DISPOSAL OR EXTRACTION SITES, AND BY PROVIDING REASONABLE CONTINGENCIES FOR PAYING FOR SUCH WORK.
6. ALL MATERIALS SPECIFIED ON THESE PLANS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
7. ROBERTSON ERICKSON, INC. WILL NOT PROVIDE ELECTRONIC FILES OR VERTICAL AND HORIZONTAL CONTROL POINTS TO BE USED IN PREPARATION OF "STAKING MODELS" OR FOR USE IN "GPS CONSTRUCTION STAKING" ACTIVITIES TO ANY INDIVIDUAL OR COMPANY WHO IS NOT LICENSED IN THE STATE OF CALIFORNIA TO PRACTICE CIVIL ENGINEERING AND/OR PROFESSIONAL LAND SURVEYING.
8. ALL REQUIRED FIRE HYDRANTS MUST BE IN PLACE AND USABLE BEFORE ANY COMBUSTIBLE CONSTRUCTION MATERIALS ARE BROUGHT ON TO THE SITE AND MUST REMAIN ACCESSIBLE AND USABLE BY THE FIRE DEPARTMENT AT ALL TIMES DURING CONSTRUCTION.

SITE CLEARING:

1. REMOVE SURFACE DEBRIS.
2. DEMOLISH AND REMOVE CONCRETE, PAVING, ETC. IN CONSTRUCTION AREA.
3. CLEAR NEW CONSTRUCTION AREA OF PLANT LIFE AND GRASS.
4. CONFORM TO APPLICABLE CODE FOR DISPOSAL OF DEBRIS.
5. COORDINATE CLEARING WORK WITH UTILITY COMPANIES.

PROTECTION:

1. PROTECT BENCH MARKS, EXISTING STRUCTURES, FENCES, ROADS, SIDEWALKS, PAVING, AND CURBS THAT ARE TO REMAIN.
2. PROTECT ABOVE OR BELOW GRADE UTILITIES WHICH ARE TO REMAIN.
3. PROTECT ALL LANDSCAPING AND TREES THAT ARE TO REMAIN.

PREPARATION:

1. IDENTIFY KNOWN BELOW GRADE UTILITIES. CALL UNDERGROUND SERVICES ALERT (U.S.A.) 48 HOURS BEFORE EXCAVATION. STAKE AND FLAG LOCATIONS. ROBERTSON ERICKSON WILL NOT ACCEPT RESPONSIBILITY FOR THE EXISTENCE OR NON-EXISTENCE OF UNDERGROUND UTILITIES.
2. IDENTIFY AND FLAG ABOVE GRADE UTILITIES.
3. MAINTAIN AND PROTECT EXISTING UTILITIES REMAINING WHICH PASS THROUGH WORK AREA.
4. UPON DISCOVERY OF UNKNOWN UTILITIES OR CONCEALED CONDITIONS, DISCONTINUE AFFECTED WORK; CONTACT ENGINEER AND OWNER.

PAVEMENT SECTIONS:

1. ASPHALT CONCRETE SHALL BE TYPE B (1/2"MAX) OVER CLASS 2 AGGREGATE BASE. ENGINEERED FILL/NATIVE SHALL BE COMPACTED TO 95% RELATIVE DENSITY (12" DEPTH).

ONSITE CONCRETE:

1. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150, TYPE II OR II-LOW ALKALI. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C 33, AND GRADE A PER THE CALIFORNIA BUILDING MAXIMUM AGGREGATE SIZE FOR FOOTINGS, SLABS-ON-GRADE AND MASS CONCRETE SHALL NOT EXCEED 1-1/2". MAXIMUM AGGREGATE SIZE FOR ALL OTHER CONCRETE SHALL NOT EXCEED 3/4".
2. CONTROL JOINT SPACING SHALL NOT EXCEED 8 FEET ON CENTER BOTH WAYS OR AS SHOWN ON THESE PLANS.
3. CONTROL JOINTS SHALL HAVE A DEPTH NOT LESS THAN 1/4 THE SLAB THICKNESS.
4. INSTALL EXPANSION (ISOLATION) JOINTS WHERE CONCRETE IS POURED AGAINST PERMANENT OBJECTS.
5. MINIMUM ULTIMATE COMPRESSIVE STRENGTH SHALL BE 2500 PSI @ 28 DAYS.
6. THE OUTSIDE DIAMETER (O.D.) OF CONDUIT OR PIPE PLACED IN THE PLANE OF A SLAB SHALL NOT EXCEED 30% OF SLAB THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE AND SHALL BE LOCATED IN MIDDLE 1/3 OF SLAB. CLEAR SPACING BETWEEN ADJACENT CONDUITS OR PIPES SHALL BE TWICE THE LARGER O.D. MINIMUM, UNLESS OTHERWISE NOTED ON PLANS.
7. SIDEWALKS SHALL BE 4" THICK CONCRETE MINIMUM OVER 2" LEVELING SAND CONTROL JOINTS AT 4' O.C OR CLASS II AB COMPACTED TO 95%. R.D.

SANITARY SEWER SYSTEM:

1. SANITARY SEWER PIPE SHALL BE PVC SCHEDULE 40.
2. MANHOLES SHALL BE RATED FOR H-20 LOADING AS DETERMINED BY THE D.O.T.
3. WHERE A CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STORM DRAIN STRUCTURE, SAID EXISTING SEWER OR STORM DRAIN STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND ELEVATION PRIOR TO ORDERING MATERIALS AND, SUBMITTING CUT SHEETS TO THE ARCHITECT. ANY DISCREPANCY BETWEEN THE PLANS AND FIELD INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND CIVIL ENGINEER
4. SEWER TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH CITY OF CORNING STANDARD DETAILS.

STORM DRAIN SYSTEM:

1. STORM DRAIN PIPES SHALL BE HDPE TYPE "S" OR AN APPROVED EQUIVALENT. PIPES SHALL BE RATED FOR H-20 LOADING AS DETERMINED BY THE DEPARTMENT OF TRANSPORTATION (D.O.T.).
2. AREA DRAINS SHALL BE COOK CONCRETE PRODUCTS OR AN APPROVED EQUIVALENT, AND RATED FOR H-20 LOADING AS DETERMINED BY THE D.O.T.

PRIVATE WATER MAIN SYSTEM NOTES:

1. DOMESTIC WATER MAINS SHALL BE POLYVINYL CHLORIDE PIPE (PVC) AWWA C-900 CLASS 150 FIRE WATER MAINS SHALL BE POLYVINYL CHLORIDE PIPE (PVC) C-900 CLASS 200. WATER MAINS SMALLER THAN 4" DIAMETER SHALL BE SCHEDULE 40 CONFORMING TO ASTM 1785.
2. MATERIALS
   2.1. POLYVINYL CHLORIDE PIPE (PVC) SHALL BE OF TYPE IN ACCORDANCE WITH AWWA C900 STANDARDS. 4" AND SMALLER SHALL BE SCHEDULE 40 CONFORMING TO ASTM 1785.
   2.2. DUCTILE IRON PIPE AND FITTINGS (DIJ) SHALL BE OF TYPE IN ACCORDANCE WITH AWWA C151. 4" AND SMALLER SHALL BE CLASS 51, 6" AND LARGER SHALL BE CLASS 50. PIPE AND FITTINGS SHALL BE FLANGED AND FLANGE GASKETS SHALL BE A 1/8" THICK RED RUBBER RING SUITABLE FOR USE WITH POTABLE WATER SYSTEMS.
3. IN AREAS WHERE THE WATER MAINS INTERSECT OTHER SERVICES, THE WATER MAINS SHALL BE INSTALLED SO THAT THE WATER MAINS CROSS ABOVE THE OTHER SERVICES. WHERE THE INTERSECTION OF THE WATER MAINS AND OTHER SERVICES CONFLICT, GRAVITY SYSTEMS SHALL HAVE CONTROL OVER PRESSURE SYSTEMS.
4. STANDARD MINIMUM COVER IS 30". IF MINIMUM COVER CANNOT BE PROVIDED AS SHOWN, CONTACT ENGINEER PRIOR TO BACK FILL.
5. ALL WATER MAIN LENGTHS ARE APPROXIMATE AND THE CONTRACTOR HAS THE RESPONSIBILITY TO VERIFY THE EXACT LENGTH OF ALL WATER MAINS AND THE LOCATIONS OF FITTINGS.
6. CONTRACTOR TO FURNISH ALL TEES, VALVES, ELBOWS, MECHANICAL JOINT RESTRAINTS & THRUST BLOCKS AS NECESSARY TO INSTALL THE WATER & FIRE SERVICE MAIN.
7. MECHANICAL JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS & SPECIFICATIONS BY EBBA IRON INC. OR APPROVED EQUAL.

AIR QUALITY NOTES:

A. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY. THE FREQUENCY SHOULD BE BASED ON THE TYPE OF OPERATION, SOIL CONDITIONS, AND WIND EXPOSURE.
B. IF NECESSARY, APPLY CHEMICAL SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (DISTURBED AREAS THAT ARE UNUSED FOR AT LEAST FOUR CONSECUTIVE DAYS) TO CONTROL DUST EMISSIONS. DUST EMISSIONS SHOULD BE CONTROLLED AT THE SITE FOR BOTH ACTIVE AND INACTIVE CONSTRUCTION AREAS THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD, INCLUDING HOLIDAYS.
C. LIMIT VEHICLE SPEEDS TO 15 MPH ON UNPAVED ROADS.
D. SUSPEND LAND CLEARING, GRADING, EARTH MOVING, OR EXCAVATION ACTIVITIES WHEN WIND SPEEDS EXCEED 20 MPH.
E. IF APPLICABLE, APPLY NON-TOXIC BINDERS (E.G. LATEX ACRYLIC COPOLYMER) TO EXPOSED AREAS AFTER CUT AND FILL OPERATION AND HYDROSEED THE AREA
F. PLANT VEGETATIVE GROUND COVER IN DISTURBED AREAS AS SOON AS POSSIBLE.
G. COVER INACTIVE STORAGE AREAS.
H. CONTRACTOR SHALL CONSULT WITH THE TEHAMA COUNTY AIR QUALITY CONTROL DISTRICT AND OBTAIN PERMITS AS NECESSARY.
I. SWEEP PAVED STREETS ADJACENT TO THE SITE WHERE VISIBLE SILT OR MUD DEPOSITS HAVE ACCUMULATED DUE TO CONSTRUCTION ACTIVITIES.
J. POST A PUBLICLY VISIBLE SIGN AT THE CONSTRUCTION SITE WITH THE NAME AND TELEPHONE NUMBER OF THE PERSON TO CONTACT REGARDING DUST COMPLAINTS. THIS PERSON SHALL RESPOND AND TAKE CORRECTIVE ACTION WITHIN 24 HOURS. THE TELEPHONE NUMBER OF THE TCAPCD SHALL ALSO BE VISIBLE TO ENSURE COMPLIANCE WITH TCAPCD RULES 200 AND 205 (NUISANCE AND FUGITIVE DUST EMISSIONS).
K. PRIOR TO FINAL OCCUPANCY, THE APPLICANT SHALL DEMONSTRATE THAT ALL GROUND SURFACES ARE TREATED SUFFICIENTLY TO MINIMIZE FUGITIVE DUST EMISSIONS. FUGITIVE DUST EMISSIONS ARE CONSIDERED DUST CLOUDS CAUSED BY WIND, TRAFFIC, OR OTHER DISTURBANCES TO EXPOSED GROUND SURFACES.
L. EXHAUST EMISSIONS WILL BE MINIMIZED BY MAINTAINING EQUIPMENT IN GOOD REPAIR AND PROPER TUNE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
M. IF CONSTRUCTION ACTIVITIES OCCUR DURING SMOG SEASON (MAY-OCTOBER), EQUIPMENT WILL NOT BE ALLOWED TO RUN IDLE FOR LONG PERIODS OF TIME.
N. EQUIPMENT SHALL BE KEPT IN PROPER TUNE, AND IDLING SHALL BE MINIMIZED.

CULTURAL RESOURCES:

IF ANY POTENTIAL ARCHAEOLOGICAL, CULTURAL, OR PALEONTOLOGICAL RESOURCES ARE ENCOUNTERED DURING CONSTRUCTION, ALL WORK SHALL CEASE WITHIN THE AREA OF THE FIND PENDING AN EXAMINATION OF THE SITE AND MATERIALS BY A PROFESSIONAL ARCHAEOLOGIST. THE ARCHAEOLOGIST WILL ASSESS THE SIGNIFICANCE OF THE FIND AND PREPARE APPROPRIATE MITIGATION MEASURES FOR REVIEW BY THE BUILDING AND DEVELOPMENT SERVICES DIRECTOR. ALL MITIGATION MEASURES DETERMINED BY THE BUILDING AND DEPARTMENT OF DEVELOPMENT SERVICES DIRECTOR TO BE APPROPRIATE FOR THIS PROJECT SHALL BE IMPLEMENTED PURSUANT TO THE TERMS OF THE ARCHAEOLOGIST'S REPORT.

NOISE MITIGATION MEASURES:

1. ALL HEAVY CONSTRUCTION EQUIPMENT AND ALL STATIONARY NOISE SOURCES (SUCH AS DIESEL GENERATORS) SHALL BE IN GOOD WORKING ORDER AND HAVE MANUFACTURER INSTALLED MUFFLERS.
2. LIMIT CONSTRUCTION ACTIVITIES TO THE HOURS BETWEEN 7AM AND 9PM DAILY, EXCEPT SUNDAYS AND HOLIDAYS. FOR SUNDAYS AND HOLIDAYS, LIMIT CONSTRUCTION ACTIVITIES TO THE HOURS BETWEEN 10AM AND 6PM.

SHORING & SAFETY NOTES:

THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING DEMOLITION AND CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING, SCAFFOLDING, PLANKING, ETC. THE CONTRACTOR, AT HIS OWN EXPENSE SHALL ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT SAME AT THE JOB SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR ENGINEER SHALL NOT CONSTITUTE INSPECTION OF THE ABOVE ITEMS. THE ENGINEER IS NOT RESPONSIBLE FOR INSPECTION OR ACCEPTANCE OF WORKMANSHIP OR MATERIALS ON THIS PROJECT.

HAZARD IDENTIFICATION:

CONTRACTORS ARE HEREBY ADVISED THAT THEY MAY BE EXPOSED TO HAZARDOUS CONDITIONS WHEN INSTALLING OR MODIFYING SANITARY SEWER PIPELINES AND STRUCTURES. SOME OF THESE HAZARDS INCLUDE BUT ARE NOT LIMITED TO: EXPOSURE TO HAZARDOUS GASSES; OXYGEN DEFICIENT ENVIRONMENTS; SYSTEMS SUCH AS HYDROGEN SULFIDE, CARBON DIOXIDE, METHANE, AND OTHER FLAMMABLE OR EXPLOSIVE GASSES; EXPOSURE TO SEWAGE WHICH MAY CONTAIN BACTERIOLOGICAL, CHEMICAL, AND OTHER CONSTITUENTS HARMFUL TO HUMANS; AND EXPOSURE TO AREAS WHICH HAVE LIMITED OR RESTRICTED ACCESS AND EGRESS, WHICH MAY BE CONSIDERED PERMITTED CONFINED SPACES BY STATE AND FEDERAL OSHA REQUIREMENTS.

ADDITIONAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL. COORDINATE ALL ROADWAY/PEDESTRIAN SHUTDOWNS WITH OWNER & COUNTY PRIOR TO IMPLEMENTATION.
2. THE EXISTENCE AND LOCATION OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
3. CALL CORNING PUBLIC WORKS DEPARTMENT AT 530-824-2489 TO SCHEDULE INSPECTION AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.
4. ALL WORK ON GRAVITY UTILITIES TO COMMENCE AT THE DOWNSTREAM END OF LINES.
5. CONTRACTOR RESPONSIBLE FOR OBTAINING AN ENCROACHMENT PERMIT.

LEGEND:

- AREA DRAIN
- BACK FLOW PREVENTER
- CLEAN OUT
- DRAIN INLET
- FIRE HYDRANT
- GUY WIRE/ANCHOR
- JOINT POLE/ POWER POLE
- LIGHT
- MONUMENT
- SD MANHOLE
- SIGN
- SS MANHOLE
- TREE
- WATER METER
- WATER VALVE

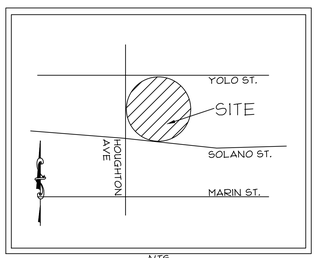
- OHE&T — EXISTING OVERHEAD ELECTRIC & TELEPHONE
- SS — EXISTING SANITARY SEWER MAIN
- SD — EXISTING STORM DRAIN
- G — EXISTING UNDERGROUND GAS
- E — EXISTING UNDERGROUND ELECTRIC
- W — EXISTING UNDERGROUND WATER
- X — EXISTING FENCE
- EXISTING EDGE OF PAVEMENT (EP)
- GENERAL DEMOLITION LIMITS
- 98.00 — EXISTING ELEVATION CONTOUR LINE
- 98.00 — PROPOSED ELEVATION CONTOUR LINE
- PROPERTY LINE
- EASEMENT LINE
- CENTERLINE
- (N)SD — NEW STORM DRAIN LINE
- (N)SS — NEW SANITARY SEWER LINE
- (N)E — NEW ELECTRICAL CONDUIT
- (N)G — NEW GAS LINE
- (N)W — NEW WATER LINE
- (N)FW — NEW FIRE WATER LINE
- SAWCUT LINE

ABBREVIATIONS:

A.B.	AGGREGATE BASE
A.C.	ASPHALT CONCRETE
AD	AREA DRAIN
ATT	TELEPHONE LINE
BFP	BACK FLOW PREVENTER
BL	BREAK LINE
BPG	BUILDING PERIMETER GRADE
BW	BOTTOM OF WALL
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC.	CONCRETE
DI	DROP INLET
DS	DOWNSPOUT
D/W	DRIVEWAY
E	ELECTRIC
EGR	EDGE OF GRAVEL ROAD
EG	EXISTING GRADE
EP	EDGE OF PAVEMENT
EX.	EXISTING
FDC	FIRE DEPT. CONNECTION
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
FS	FINISHED SURFACE
G	GAS
GB	GRADE BREAK
GM	GAS METER
GR	GRATE ELEVATION
GTD	GRADE TO DRAIN
GV	GAS VALVE
HB	HOSE BIB
HDPE	HIGH DENSITY POLYETHYLENE
ICV	IRRIGATION CONTROL VALVE
ID	INSIDE DIAMETER
INV	INVERT OF PIPE
LF	LINEAR FEET
LOC	LOCATION
LS	LANDSCAPE
(N.)	NEW
NTS	NOT TO SCALE
OHC	OVERHEAD CABLE
OHE	OVERHEAD ELECTRIC
OHE&T	OVERHEAD ELECTRIC & TELEPHONE
PIV	POST INDICATOR VALVE
PL	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R.D.	RELATIVE DENSITY
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FEET
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
SW	SIDEWALK
T	TREE
TBM	TEMPORARY BENCH MARK
TC	TOP OF CURB
TE	TRASH ENCLOSURE
TYP	TYPICAL
W	WATER
WB	WATER BOX
WM	WATER METER
WV	WATER VALVE

SHEET LIST:

C1.0	TITLE SHEET
C2.0	EXISTING TOPOGRAPHY/DEMOLITION PLAN
C2.1	EXISTING TOPOGRAPHY/DEMOLITION PLAN W/ ADD ALTERNATE
C3.0	GRADING PLAN
C3.1	GRADING PLAN W/ ADD ALTERNATE
C4.0	UTILITY PLAN
C5.0	PAVING PLAN
C5.1	PAVING PLAN W/ ADD ALTERNATE
C6.0	DETAIL SHEET
C6.1	DETAIL SHEET 2
C7.0	EROSION & SEDIMENT CONTROL PLAN



NTS
CORNING, CALIFORNIA
VICINITY MAP

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER — RUSSELL T. ERICKSON — No. 58460 — CIVIL — STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1820 SOLANO ST.
CORNING, CA

SHEET TITLE

TITLE SHEET

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	N/A
Project No.	21-6497

SHEET No.

C1.0

Login Name: kmason
Plot Date: October 24, 2025 - 3:38 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C1.0 Title Sheet Veterans Hall.dwg
XREFS: Title Block Veterans Hall 1 x-CVH_Title Block

LEGEND:

- DEMO CONCRETE
- DEMO ASPHALT
- REMOVE TREE
- GENERAL DEMO LIMITS
- SAWCUT LINE

Note: contractor to saucut, demolish, remove, and dispose of all materials following all codes as appropriate. Coordinate with utility companies for disconnection of facilities. Coordinate with City of Corning for Encroachment permit for any demolition within public right of way.

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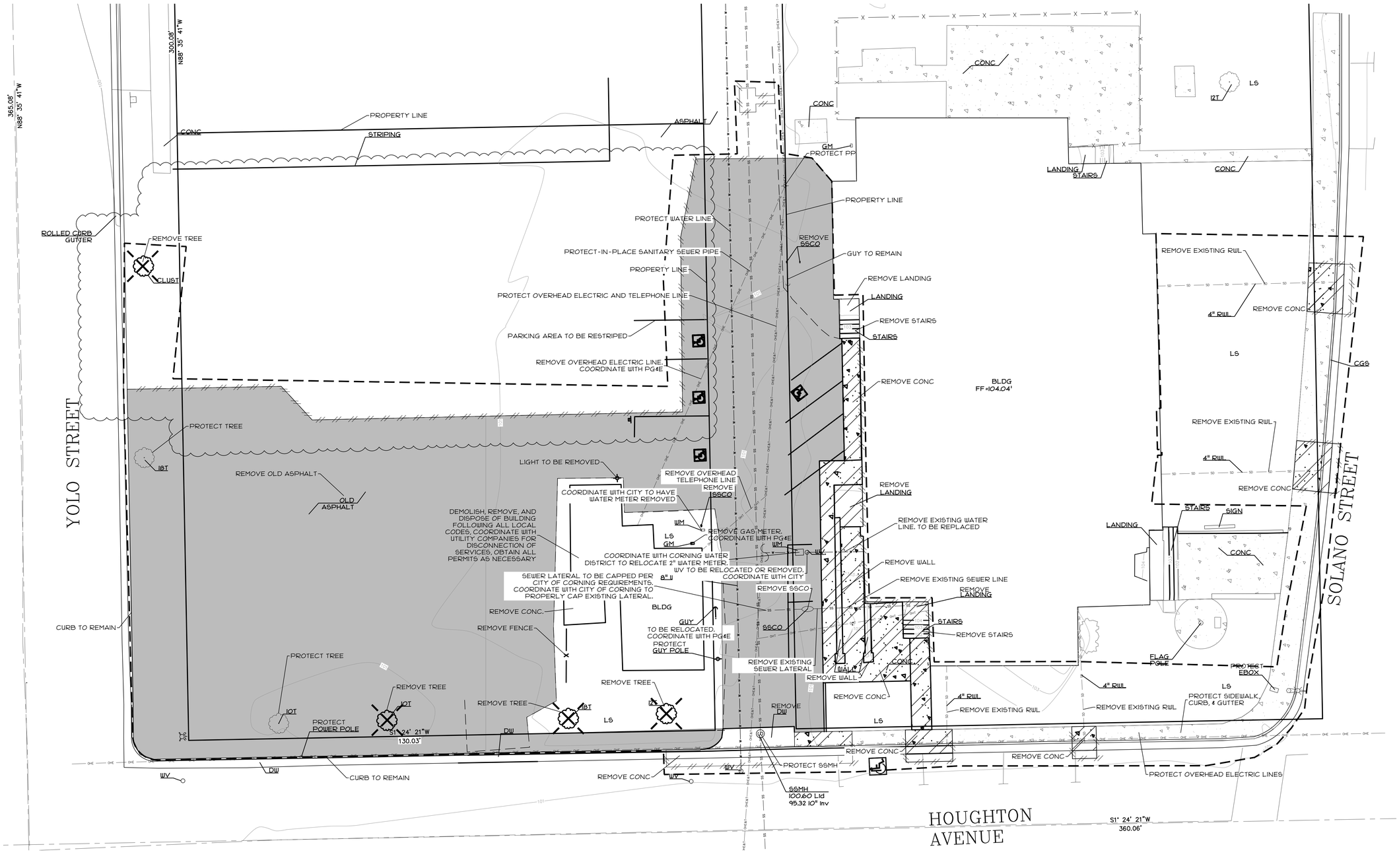
SCALE: 1" =10'



Login Name: kenson
Plot Date: October 24, 2025 - 3:27 pm
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XREFS: Title Block Veterans Hall | x-CVH_Title Block | 24-531 nmr vet Topo CAD

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RUSSELL T. ERICKSON No. 58460 CIVIL STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

EXISTING TOPOGRAPHY/
DEMOLITION PLAN
BASE BID

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	--
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C2.0

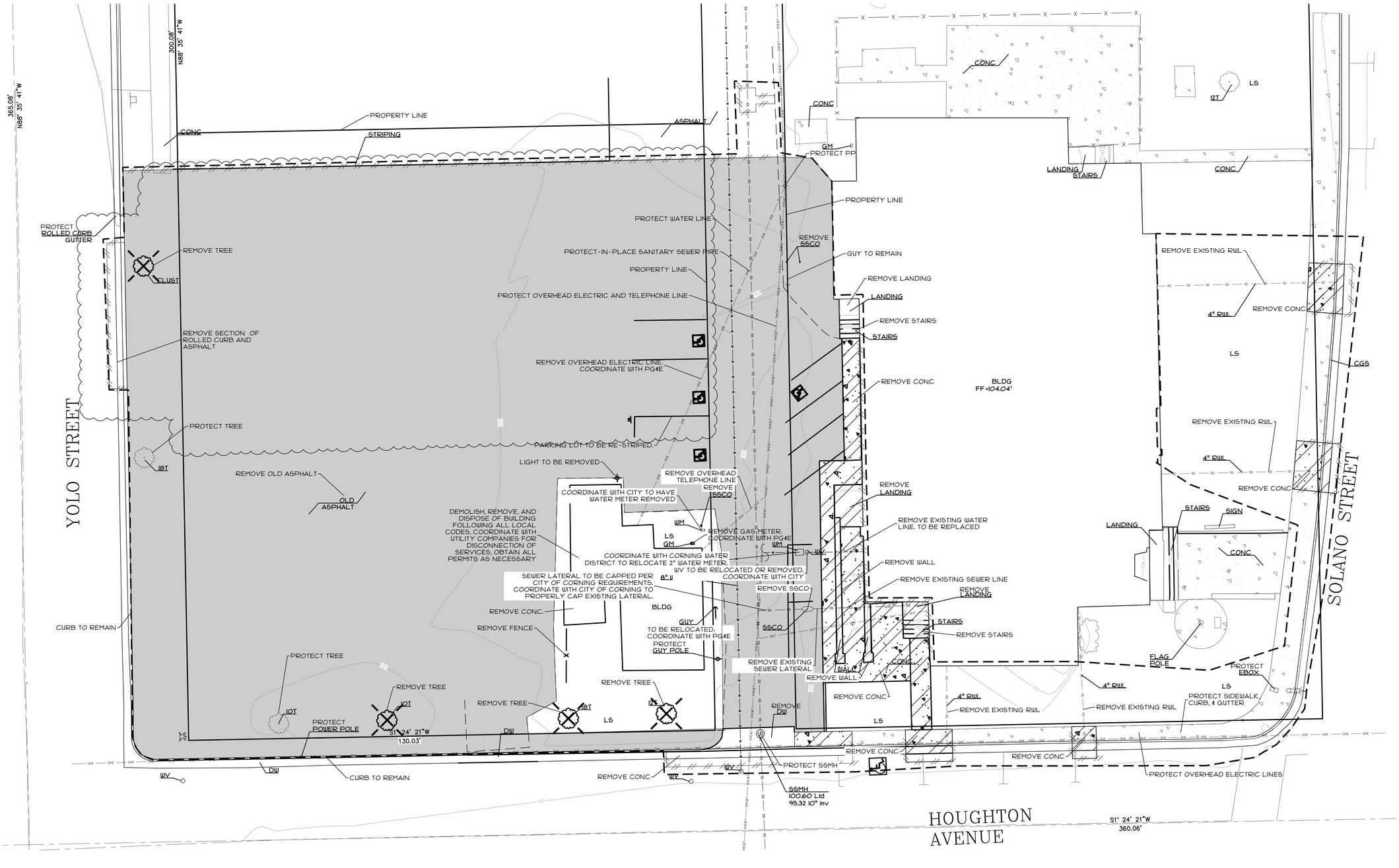
LEGEND:

- DEMO CONCRETE
- DEMO ASPHALT
- REMOVE TREE
- GENERAL DEMO LIMITS
- SAWCUT LINE

Note: contractor to saucut, demolish, remove, and dispose of all materials following all codes as appropriate. Coordinate with utility companies for disconnection of facilities. Coordinate with City of Corning for Encroachment permit for any demolition within public right of way.

10 0 10 20 30

SCALE: 1" =10'



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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RUSSELL T. ERICKSON No. 58460 CIVIL STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

EXISTING TOPOGRAPHY/ DEMOLITION PLAN W/ ADD ALTERNATE

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	--
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C2.1

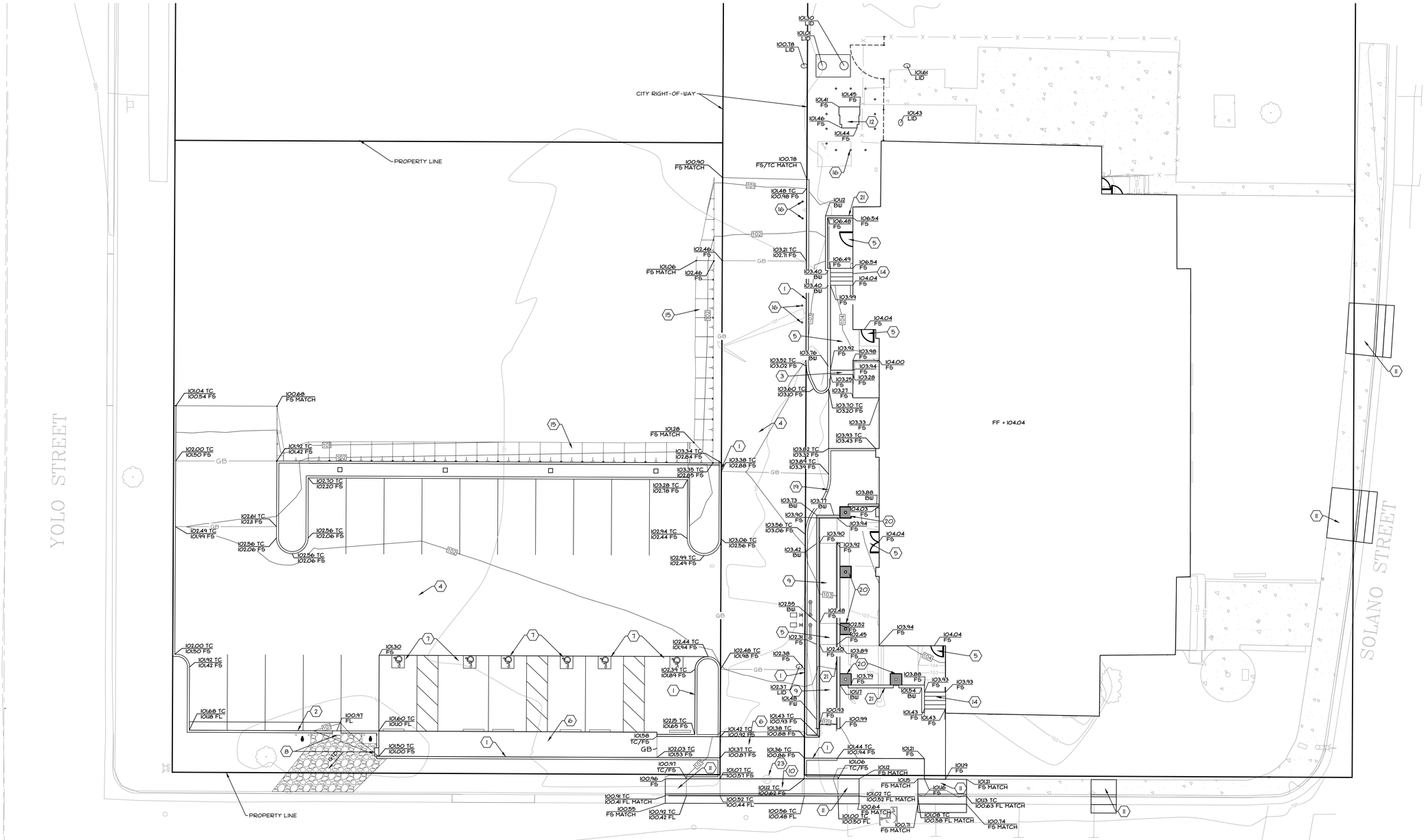
Login Name: keeson
Plot Date: October 24, 2025 - 3:27 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C2.1 Topo Demo Plan Add Included Veterans Hall.dwg
XREFS: Title Block Veterans Hall | x-CVH_Title Block | 24-531 nmr vet Topo CAD

GRADING CONSTRUCTION NOTES

1. INSTALL 6" VERTICAL CURB. SEE C6.0/1 FOR CURB SECTION.
2. INSTALL 6" CURB AND GUTTER. SEE C6.0/2 FOR CURB AND GUTTER SECTION.
3. INSTALL STAIRS. 2 RISERS WITH 4" VERTICAL RISE. SEE ARCHITECTURAL PLANS FOR STAIR DETAILS.
4. INSTALL ASPHALT PAVING. SEE PAVING PLAN FOR DETAILS.
5. INSTALL LANDING. SLOPES TO REMAIN UNDER 2% IN ALL DIRECTIONS.
6. PATH OF TRAVEL. CROSS-SLOPES TO REMAIN UNDER 2% AND SLOPES IN DIRECTION-OF-TRAVEL TO REMAIN UNDER 5%.
7. INSTALL ADA PARKING SPOT. SLOPES TO REMAIN UNDER 2% IN ALL DIRECTIONS. SEE A060/1 FOR ARCHITECTURAL DETAIL.
8. CREATE 2' GAP IN CURB FOR FLOW INTO DRAIN ROCK SWALE. SEE C6.0/3 FOR DETAIL.
9. INSTALL RAMP. SLOPES TO REMAIN UNDER 8%. SEE ARCHITECTURAL PLANS FOR DETAILS.
10. INSTALL NEW DRIVEWAY. SEE C6.0/5 SECTION-AA FOR DETAIL.
11. INSTALL NEW CITY OF CORNING SIDEWALK, VERTICAL CURB, AND GUTTER. SEE C6.0/6 FOR STANDARD DETAIL. INSTALL 3" DIAMETER DRAIN PIPES TO DAYLIGHT AT FLOWLINE, COVER PIPE SECTION WITH 24" SWATH OF WELDED WIRE FABRIC IN CONCRETE ABOVE.
12. INSTALL ELECTRICAL PAD. SEE ELECTRICAL PLANS FOR DETAILS.
13. INSTALL CITY OF CORNING DRIVEWAY. SEE C6.0/7 FOR DETAILS.
14. INSTALL STAIRS. 5 RISERS WITH 6" VERTICAL RISE. SEE ARCHITECTURAL PLANS FOR STAIR DETAIL.
15. SLOPE AT 3(H)I(V) TO CATCH EXISTING GRADE. PROVIDE 2' FLAT SHOULDER WHERE ADJACENT TO ROADWAYS.
16. INSTALL BOLLARD. SEE C6.0/4 FOR DETAIL.
17. NOT USED.
18. NOT USED.
19. INSTALL 6" GAP IN CURB FOR DRAINAGE.
20. NEW COLUMN. SEE ARCHITECTURAL PLANS FOR DETAILS.
21. INSTALL NEW RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DETAILS.
22. NOT USED.
23. RAISE LID AS NECESSARY TO BE FLUSH WITH NEW PAVEMENT.

10 0 10 20 30

SCALE: 1" =10'



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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RUSSELL T. ERICKSON No. 58460 CIVIL STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1820 SOLANO ST.
CORNING, CA

SHEET TITLE

GRADING PLAN
BASE BID

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C3.0

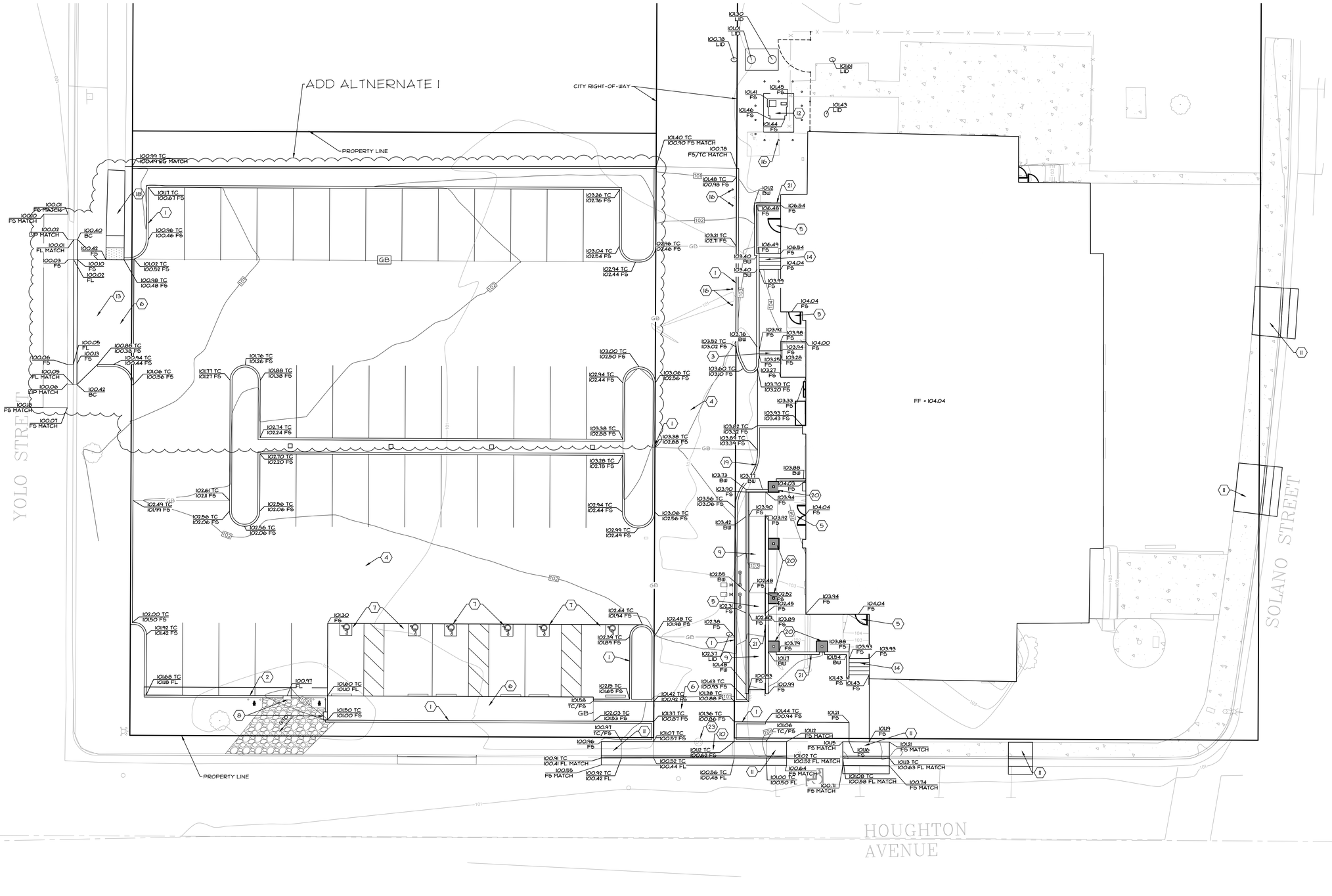
Login Name: keegan
Plot Date: October 24, 2025 - 3:27 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C3.0 Grading Plan Veterans Hall.dwg
XREFS: Title Block Veterans Hall | x-CVH_Title Block | Civil Base 24-531 Veterans Hall | 24-531 nmr vet Topo CAD | x-CVH-site | x-CVH-Str1 | x-CVH-GRID | x-CVH Topo

GRADING CONSTRUCTION NOTES

1. INSTALL 6" VERTICAL CURB. SEE C6.0/1 FOR CURB SECTION.
2. INSTALL 6" CURB AND GUTTER. SEE C6.0/2 FOR CURB AND GUTTER SECTION.
3. INSTALL STAIRS. 2 RISERS WITH 4" VERTICAL RISE. SEE ARCHITECTURAL PLANS FOR STAIR DETAILS.
4. INSTALL ASPHALT PAVING. SEE PAVING PLAN FOR DETAILS.
5. INSTALL LANDING. SLOPES TO REMAIN UNDER 2% IN ALL DIRECTIONS.
6. INSTALL PATH OF TRAVEL. CROSS-SLOPES TO REMAIN UNDER 2% AND SLOPES IN DIRECTION-OF-TRAVEL TO REMAIN UNDER 5%.
7. INSTALL ADA PARKING SPOT. SLOPES TO REMAIN UNDER 2% IN ALL DIRECTIONS. SEE A060/1 FOR ARCHITECTURAL DETAIL.
8. CREATE 2' GAP IN CURB FOR FLOW INTO DRAIN ROCK SWALE. SEE C6.0/3 FOR DETAIL.
9. INSTALL RAMP. SLOPES TO REMAIN UNDER 8%. SEE ARCHITECTURAL PLANS FOR DETAILS.
10. INSTALL NEW DRIVEWAY. SEE C6.0/5 SECTION-AA FOR DETAIL.
11. INSTALL NEW CITY OF CORNING SIDEWALK, VERTICAL CURB, AND GUTTER. SEE C6.0/6 FOR STANDARD DETAIL. INSTALL 3" DIAMETER DRAIN PIPES TO DAYLIGHT AT FLOWLINE, COVER PIPE SECTION WITH 24" SWATH OF WELDED WIRE FABRIC IN CONCRETE ABOVE.
12. INSTALL ELECTRICAL PAD. SEE ELECTRICAL PLANS FOR DETAILS.
13. INSTALL CITY OF CORNING DRIVEWAY. SEE C6.0/7 FOR DETAILS.
14. INSTALL STAIRS. 5 RISERS WITH 6" VERTICAL RISE. SEE ARCHITECTURAL PLANS FOR STAIR DETAIL.
15. NOT USED.
16. INSTALL BOLLARD. SEE C6.0/4 FOR DETAIL.
17. NOT USED.
18. INSTALL NEW CITY OF CORNING SIDEWALK WITH SETBACK FROM EXISTING CURB. SEE C6.0/5FOR STANDARD DETAIL.
19. INSTALL 6" GAP IN CURB FOR DRAINAGE.
20. NEW COLUMN. SEE ARCHITECTURAL PLANS FOR DETAILS.
21. INSTALL NEW RETAINING WALL. SEE ARCHITECTURAL PLANS FOR DETAILS.
22. NOT USED.
23. RAISE LID AS NECESSARY TO BE FLUSH WITH NEW PAVEMENT

10 0 10 20 30

SCALE: 1" =10'



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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RUSSELL T. ERICKSON No. 58460 CIVIL STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1820 SOLANO ST.
CORNING, CA

SHEET TITLE

GRADING PLAN W/ ADD ALTERNATE

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C3.1

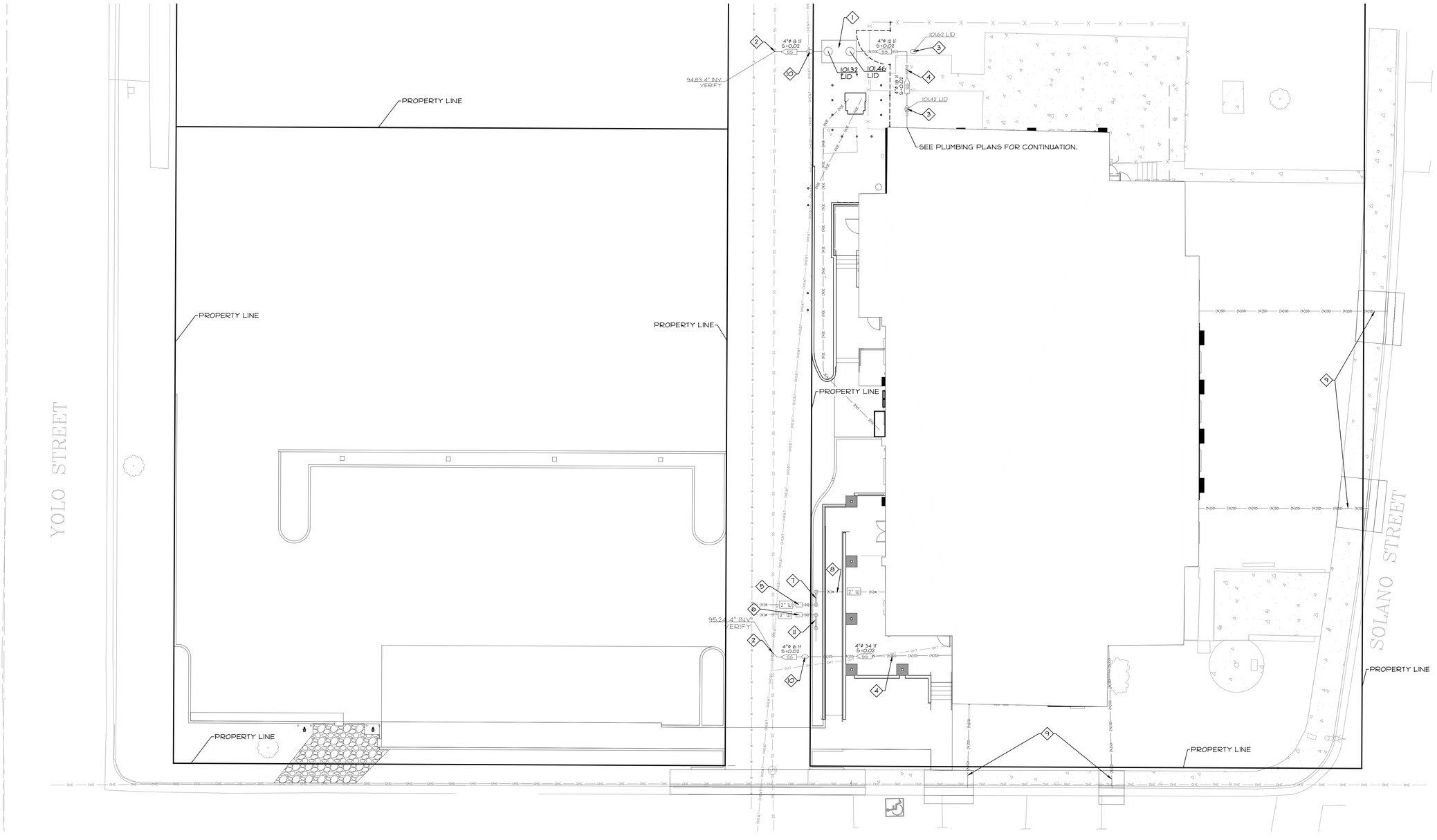
Login Name: kmeyer
Plot Date: October 24, 2025 - 3:27 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C3.1 Grading Plan Add Included Veterans Hall.dwg
XREFS: Title Block Veterans Hall | x-CVH_Title Block | Civil Base 24-531 Veterans Hall | 24-531 nmr vet Topo CAD | x-CVH-site | x-CVH-GRID | x-CVH Topo

UTILITY CONSTRUCTION NOTES

1. INSTALL JENSON PRE-CAST 1000-GALLON GREASE INTERCEPTOR WITH AIR TIGHT LIDS. SEE C61/4 FOR DETAILS.
2. CONNECT NEW SANITARY SEWER LINE TO EXISTING 10" MAIN. COORDINATE WITH CITY. SEE C61/2 FOR TIE IN DETAILS. POTHOLE TO VERIFY DEPTH AND LOCATION PRIOR TO CONSTRUCTION.
3. INSTALL SANITARY SEWER CLEANOUT. SEE C61/1 FOR DETAIL.
4. INSTALL SANITARY SEWER PIPE. SEE PLAN FOR SIZE AND SLOPE. SEE C61/3 FOR TRENCH DETAILS.
5. MOVE OR REPLACE EXISTING 2" WATER METER AND SERVICE SO METER IS IN RIGHT OF WAY. COORDINATE WITH CITY OF CORNING AND WATER SERVICE PROVIDER FOR CONNECTION. PROVIDE TRAFFIC-RATED METER BOX.
6. INSTALL NEW 2" IRRIGATION SERVICE, METER, AND BACKFLOW PREVENTOR. COORDINATE WITH CITY OF CORNING FOR CONNECTION APPLICATION AND PROCEDURES.
7. INSTALL NEW DOMESTIC BACKFLOW PREVENTOR. PROTECT WITH WEATHER JACKET.
8. INSTALL NEW 2" WATER LINE. SEE C61/3 FOR TRENCH DETAILS.
9. REPLACE EXISTING 4" RWL'S, USE 3" PIPES UNDER SIDEWALK TO DAYLIGHT AT GUTTER FLOW LINE. PROVIDE WELDED WIRE MESH OVER PIPE. SEE C6.0/8 FOR DETAIL.
10. INSTALL CITY OF CORNING SS CLEANOUT. SEE C61/2 FOR STANDARD DETAILS.
11. INSTALL IRRIGATION BACKFLOW PREVENTOR. SEE LANDSCAPE PLANS FOR CONTINUATION. PROTECT WITH WEATHER JACKET.

10 0 10 20 30

SCALE: 1" =10'



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robertsonerickson.com

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RUSSELL T. ERICKSON No. 58460 CIVIL STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

UTILITY PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	1" = 10'
Project No.	21-6497

SHEET No.

C4.0

Login Name: kmejan
Plot Date: October 24, 2025 - 3:27 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C4.0 Utility Plan Veterans Hall.dwg
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LEGEND:

LIGHT DUTY CONCRETE AREA
4" CONCRETE OVER 4" CLASS II AB @ 95% R.D. OVER 12" SUBGRADE @ 95% R.D.

ASPHALT CONCRETE PAVING SECTION
3" AC OVER 8" CLASS II AB @ 95% R.D. OVER 12" SUBGRADE @ 95% R.D.

NEW SIDEWALK AREA. SEE C6.0/6 FOR CITY OF CORNING SIDEWALK CROSS SECTIONAL DETAIL.

NEW DRIVEWAY AREA. SEE C6.0/7 FOR CITY OF CORNING DRIVEWAY CROSS SECTION DETAIL.

NEW CITY OF CORNING STREET ASPHALT. 3" ASPHALT CONCRETE TYPE 'B' OVER 8" CLASS II AB @95% R.D. OVER 12" SUBGRADE @ 95% R.D.

6" VERTICAL CURB AND GUTTER. SEE C6.0/2 FOR DETAILS.

0"-6" VERTICAL CURB. SEE GRADING PLAN C3.0 FOR CURB HEIGHT. SEE C6.0/1 FOR DETAILS.

6" VERTICAL CURB AND GUTTER IN RIGHT-OF-WAY. SEE C6.0/6 FOR CITY DETAIL.

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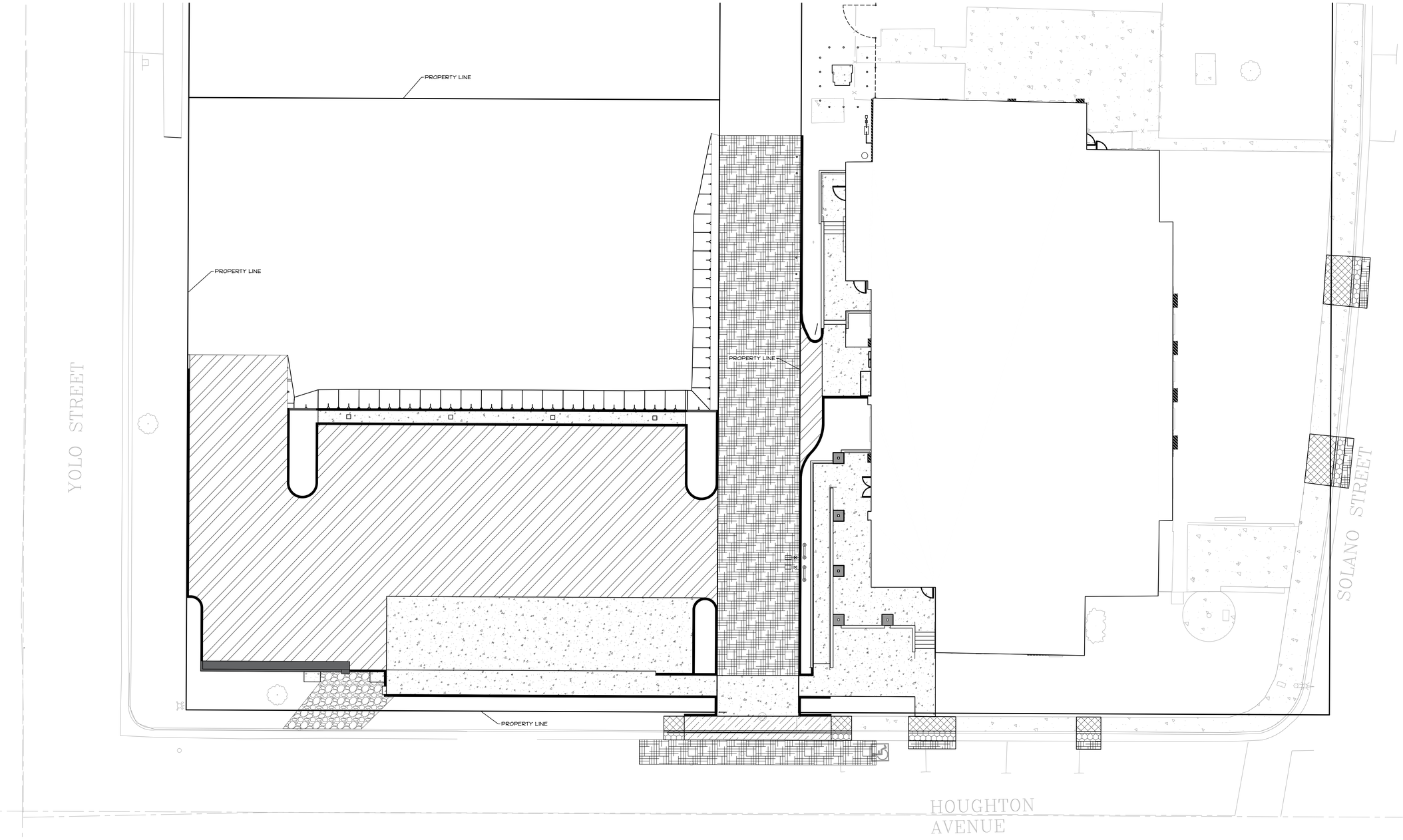
SCALE: 1" =10'



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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER
RUSSELL T ERICKSON
No. 58400
CIVIL
STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1820 SOLANO ST.
CORNING, CA

SHEET TITLE

PAVING PLAN
BASE BID

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C5.0

Login Name: kmunn
Plot Date: October 24, 2025 - 3:27 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C5.0 Paving Plan Veterans Hall.dwg
XREFS: Title Block Veterans Hall | x-CVH_Title Block | Civil Base 24-531 Veterans Hall | 24-531 nmr wet Topo CAD | x-CVH-site | x-CVH-flr1 | x-CVH-GRID | x-CVH Topo

LEGEND:

LIGHT DUTY CONCRETE AREA
4" CONCRETE OVER 4" CLASS II AB @ 95% R.D. OVER 12" SUBGRADE @ 95% R.D.

ASPHALT CONCRETE PAVING SECTION
3" AC OVER 8" CLASS II AB @ 95% R.D.
OVER 12" SUBGRADE @ 95% R.D.

NEW SIDEWALK AREA, SEE C6.0/6 FOR CITY OF CORNING SIDEWALK CROSS SECTIONAL DETAIL.

NEW DRIVEWAY AREA, SEE C6.0/7 FOR CITY OF CORNING DRIVEWAY CROSS SECTION DETAIL.

NEW CITY OF CORNING STREET ASPHALT, 2" ASPHALT CONCRETE TYPE 'B' OVER 8" CLASS II AB @95% R.D. OVER 12" SUBGRADE @ 95% R.D.

6" VERTICAL CURB AND GUTTER, SEE C6.0/2 FOR DETAILS.

0"-6" VERTICAL CURB, SEE GRADING PLAN C3.0 FOR CURB HEIGHT. SEE C6.0/1 FOR DETAILS.

6" VERTICAL CURB AND GUTTER IN RIGHT-OF-WAY. SEE C6.0/6 FOR CITY DETAIL.

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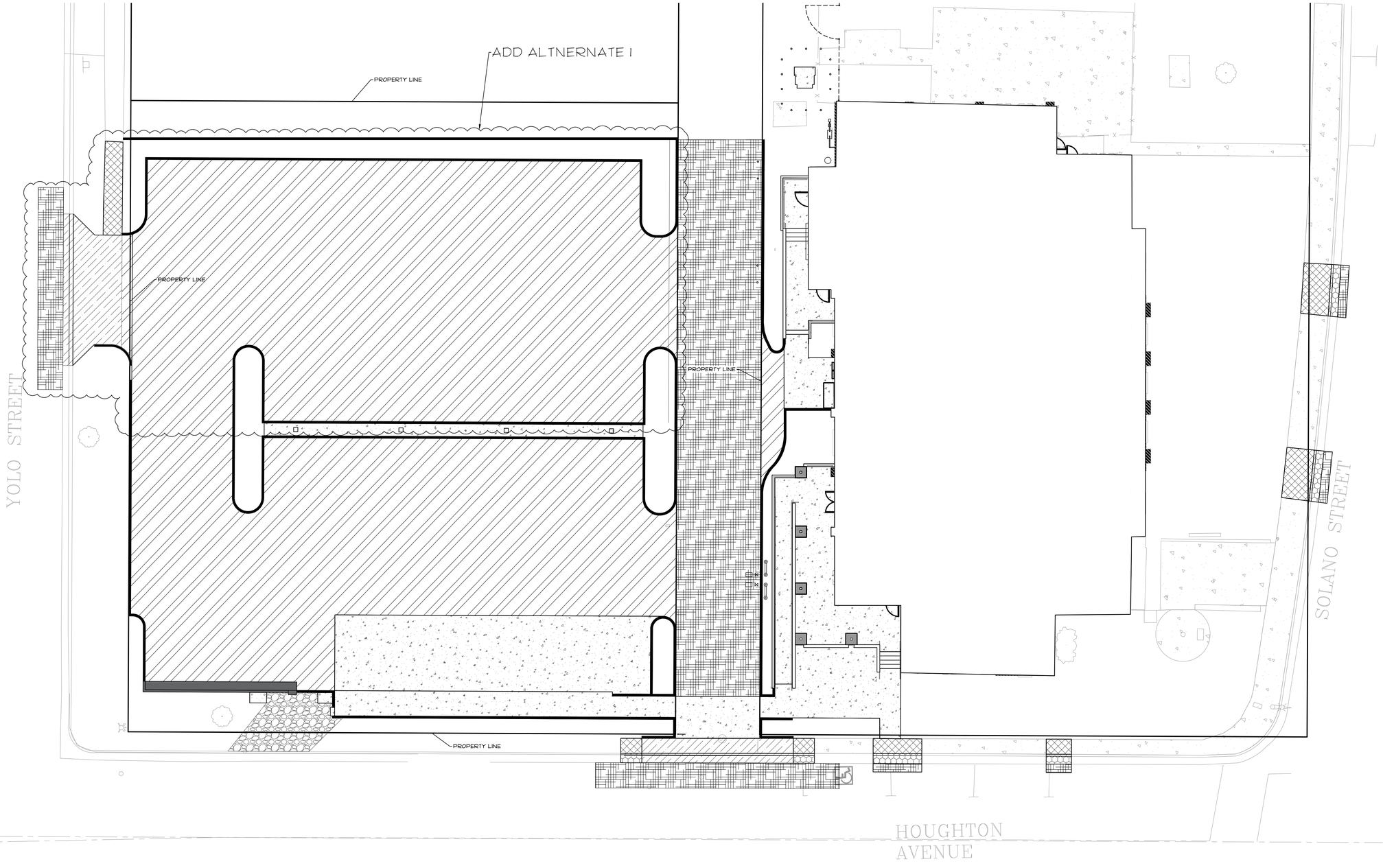
SCALE: 1" =10'



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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER
RUSSELL T. ERICKSON
No. 58400
CIVIL
STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1820 SOLANO ST.
CORNING, CA

SHEET TITLE

PAVING PLAN W/ ADD ALTERNATE

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C5.1

Login Name: kmunn
Plot Date: October 24, 2025 - 3:27 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C5.0 Paving Plan Veterans Hall.dwg
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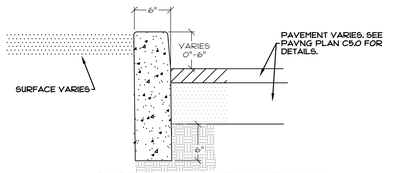
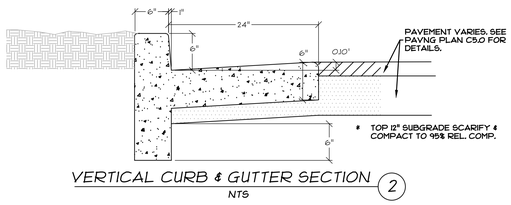
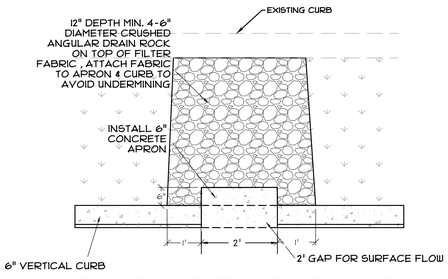


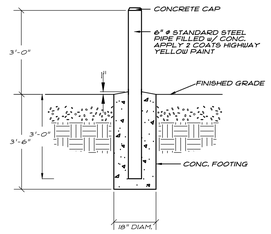
CURB & PAVEMENT SECTION (1)
NTS



VERTICAL CURB & GUTTER SECTION (2)
NTS



CURB GAP WITH ENERGY DISSIPATION (3)
NTS



PIPE BOLLARD DETAIL (4)
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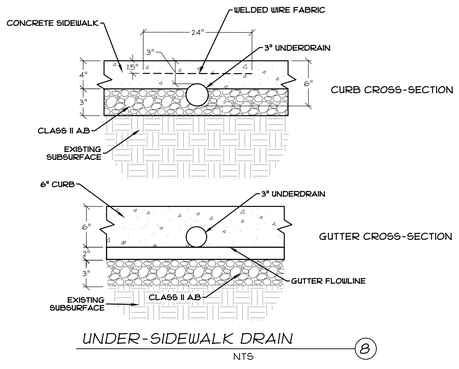

UNDER-SIDEWALK DRAIN (8)
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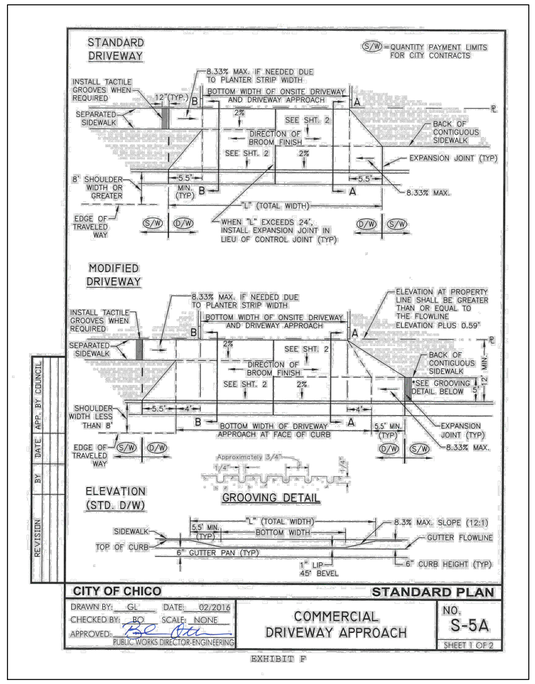
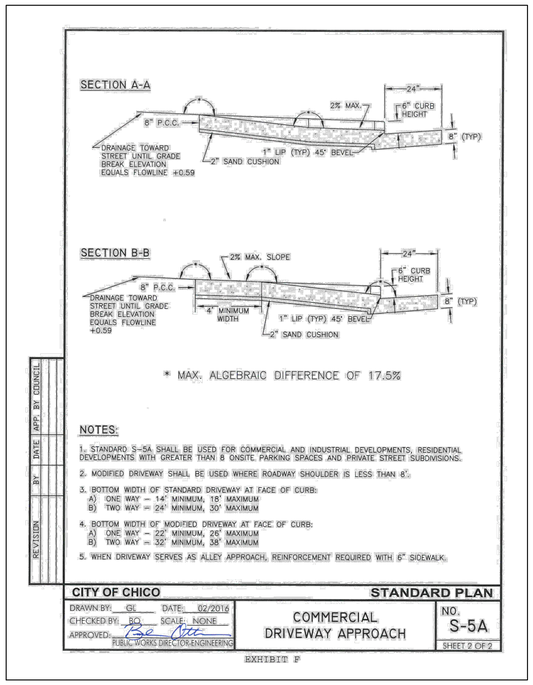
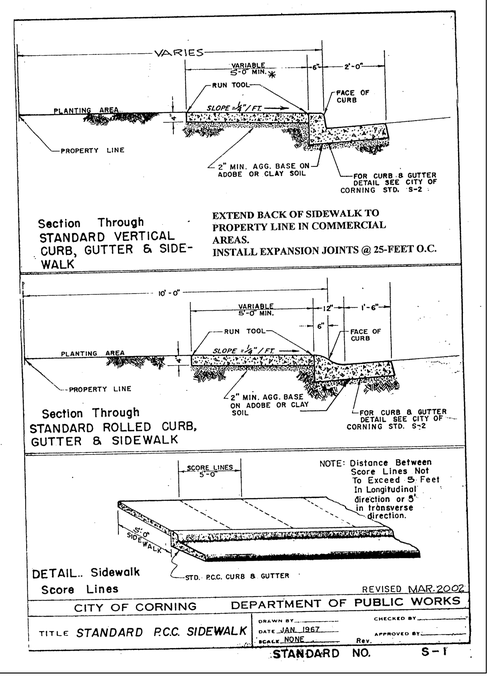




COMMERCIAL DRIVEWAY APPROACH (5)
NTS



CITY OF CORNING STANDARD SIDEWALK (6)
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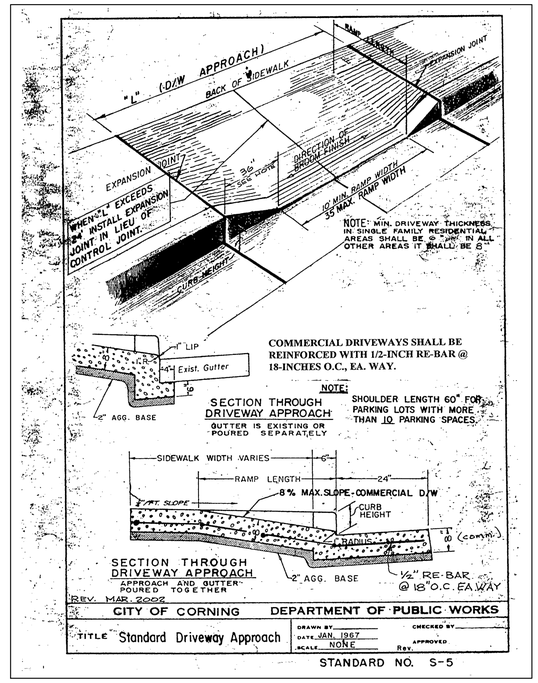

CITY OF CORNING STANDARD DRIVEWAY (7)
NTS

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RUSSELL T. ERICKSON No. 58460 CIVIL STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

DETAIL SHEET

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C6.0

Login Name: keenan
Plot Date: October 24, 2025 - 3:27 pm
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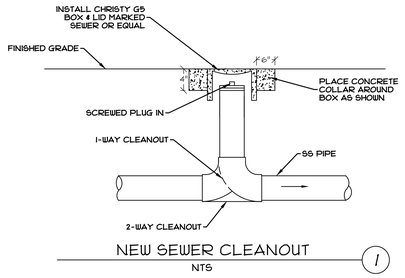
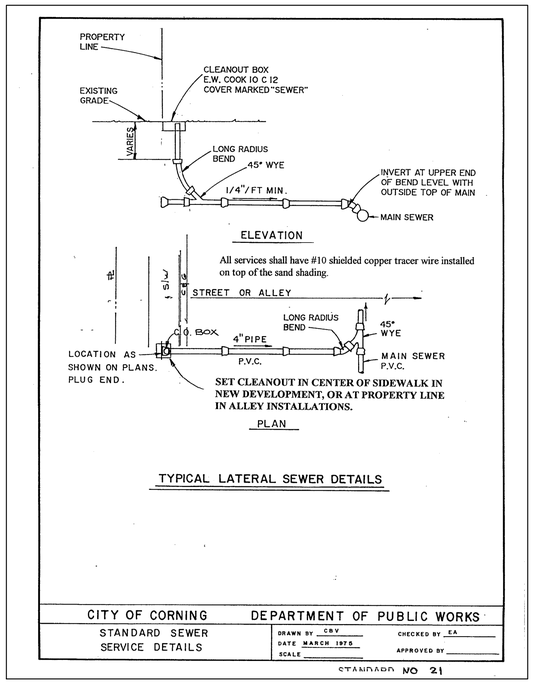
XREFS: Title Block Veterans Hall | x-CWL_Title Block

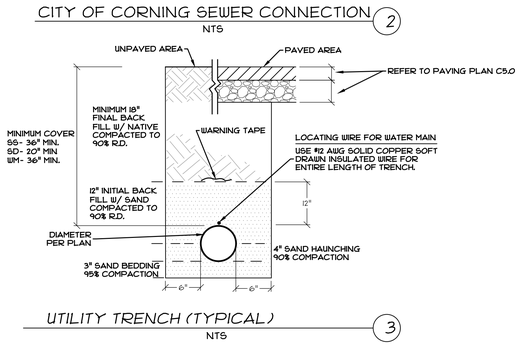


NEW SEWER CLEANOUT

NTS

1





CITY OF CORNING SEWER CONNECTION

NTS

2

UTILITY TRENCH (TYPICAL)

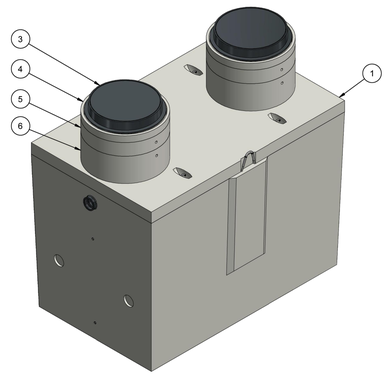
NTS

3

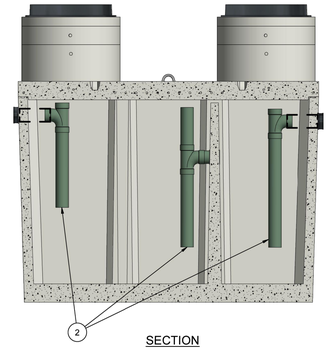
NOTES
■ IN COMPLIANCE WITH UNIFORM PLUMBING CODE (UPC), INTERNATIONAL PLUMBING CODE (IPC), AND STRUCTURAL LOADING REQUIREMENTS OF ASTM INTERNATIONAL C1613.
■ JENSEN PRECAST'S PRODUCT IS LISTED BY IAPMO R&T TO STANDARD Z1001. MODEL JP-1000-EE-G
■ MUST BE INSTALLED PER "JENSEN PRECAST UNDERGROUND WASTEWATER PRECAST CONCRETE TANK INSTALLATION PROCEDURE" WHICH CAN BE FOUND AT https://www.jensenprecast.com/Tank-Installation-Procedure-d2106.pdf. THIS PROCEDURE ADDRESSES REQUIRED EXCAVATION, SITE PREPARATION, INSTALLATION, VENTILATION, AND WATER/VACCUM TESTING

BILL OF MATERIALS

ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT (LBS)
1	1	200017789	Tank JP 1000 Gallon 4 Inch Assembly EE Single Baffle	11657
2	1	200048772	200030233 Plumbing - JP 1000 4 Inch Gravity Grease Interceptor 24"E, 24"E Single Baffle	10
3	JOB SPECIFIC	100005850	CI RINGCOVER 24DIA B-5105-02/B-5105-R2 ASTM A48 CL35B CP O-RING GASKET OSI JENSEN/INTERCEPT	196
4	JOB SPECIFIC	100001524	Grade Ring D2432x3	87
5	JOB SPECIFIC	100001525	Grade Ring D2432x6	180
6	JOB SPECIFIC	100001526	Grade Ring D2432x12	365
7	JOB SPECIFIC	100012046	Plug Cover D2428x6 Slab Top	300



ISO LAYOUT



SECTION

MODEL: JP-1000-EE-G

REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	DRAWING CREATED	10/4/2019	J HILLMAN
B	TOP SLAB LIFTING AND PLUMBING UPDATED	2/4/2021	C.Keller
C	ACCESSORIES UPDATED	6/29/2022	E.FINE

BURY DEPTH:	1.1' - 6.0' to Top		
WATER LEVEL:	Below Structure	WEIGHT:	13622.86 Lbs
DESIGN SPEC:	ASTM C890,ACI 318	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:		LIFTING TYPE:	

JENSEN PRECAST EST. 1968

WWW.JENSENPRECAST.COM

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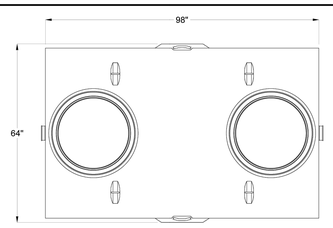
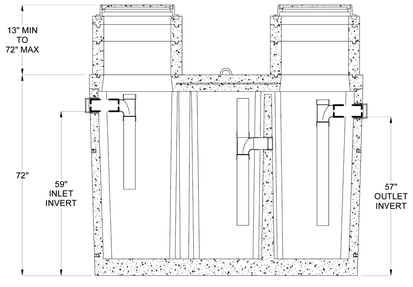
DESCRIPTION:	Tank JP 1000 Gallon 4 Inch Layout Gravity Grease Interceptor 24"E, 24"E Single Baffle		REV: C-2
	LAYOUT REVIEW		SHEET: 1 OF 2
PART NUMBER:	200030233	DRAWN BY:	E. Fine
CREATED:	1/31/2019	MODIFIED:	6/29/2022



PLAN VIEW



CROSS SECTION

BURY DEPTH:	1.1' - 6.0' to Top		
WATER LEVEL:	Below Structure	WEIGHT:	13622.86 Lbs
DESIGN SPEC:	ASTM C890,ACI 318	LOADING SPEC:	A-16 (AASHTO HS20-44)
REINFORCEMENT TYPE:		LIFTING TYPE:	

JENSEN PRECAST EST. 1968

WWW.JENSENPRECAST.COM

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DESCRIPTION:	Tank JP 1000 Gallon 4 Inch Layout Gravity Grease Interceptor 24"E, 24"E Single Baffle		REV: C-2
	LAYOUT DRAWING		SHEET: 2 OF 2
PART NUMBER:	200030233	DRAWN BY:	E. Fine
CREATED:	1/31/2019	MODIFIED:	6/29/2022

JENSON PRECAST 1000-GAL GREASE INTERCEPTOR

NTS

4

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robertsonerickson.com

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RUSSELL E. ERICKSON No. 58460 CIVIL STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

DETAIL SHEET

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C6.1

Login Name: kaseyn
Plot Date: October 24, 2025 - 3:28 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C6.0 Detail Sheet Veterans Hall.dwg
XREFS: Title Block Veterans Hall | x-CVH_Title Block

GENERAL NOTES:

THESE BEST MANAGEMENT PRACTICES ARE SUGGESTIONS ONLY. IT IS UP TO THE CONTRACTOR IN CHARGE OF IMPLEMENTING THE EROSION & SEDIMENT CONTROL PLAN TO ENSURE THE ESCP AND ASSOCIATED BMP's ARE UP TO DATE. AS CONDITIONS CHANGE, BMP's SHOULD BE MODIFIED AND/OR UPDATED ACCORDINGLY.

STOCKPILES ARE TO BE COVERED WITH A TARP, EROSION CONTROL MATS, OR STRAW/TACKIFIER IF EXPOSED MORE THAN THAN 14 DAYS.

PLACE STRAW MULCH W/ TACKIFIER OR EROSION CONTROL MATS ON ALL CUT/FILL SLOPES IF EXPOSED DURING RAIN EVENTS.

USE WATER TRUCK AS NECESSARY TO MINIMIZE DUST.

DURING CONSTRUCTION ACTIVITIES ALL STREETS ADJACENT TO THIS SITE SHALL BE KEPT CLEAN AND FREE OF DIRT AND DEBRIS. STREET CLEANING SHALL OCCUR DAILY UNLESS DETERMINED TO BE NEEDED MORE FREQUENTLY OR LESS FREQUENTLY BY THE CITY. INSPECT ACCESS STREETS & DRIVEWAYS DAILY.

DUST CONTROL MEASURES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL ADEQUATE DUST CONTROL MEASURES ARE IMPLEMENTED IN A TIMELY AND EFFECTIVE MANNER DURING ALL PHASES OF PROJECT DEVELOPMENT AND CONSTRUCTION.
2. ALL MATERIAL EXCAVATED, STOCKPILED, OR GRADED SHOULD BE SUFFICIENTLY WATERED TO PREVENT FUGITIVE DUST FROM LEAVING PROPERTY BOUNDARIES AND CAUSING A PUBLIC NUISANCE OR A VIOLATION OF AN AMBIENT AIR STANDARD. WATERING SHOULD OCCUR AT LEAST TWICE DAILY WITH COMPLETE SITE COVERAGE, PREFERABLY IN THE MID-MORNING AND AFTER WORK IS COMPLETED EACH DAY.
3. ALL AREAS (INCLUDING UNPAVED ROADS) WITH VEHICLE TRAFFIC SHOULD BE WATERED PERIODICALLY OR HAVE DUST PALLIATIVES APPLIED FOR STABILIZATION OF DUST EMISSIONS.
4. ALL ON SITE VEHICLES SHOULD BE LIMITED TO A SPEED OF 15 MILES PER HOUR ON UNPAVED ROADS.
5. ALL LAND CLEARING, GRADING EARTH MOVING OR EXCAVATION ACTIVITIES ON A PROJECT SHALL BE SUSPENDED WHEN WINDS ARE EXPECTED TO EXCEED 20 MILES PER HOUR.
6. ALL INACTIVE PORTIONS OF THE DEVELOPMENT SITE SHOULD BE SEEDED AND WATERED UNTIL A SUITABLE LANDSCAPE COVER IS ESTABLISHED.

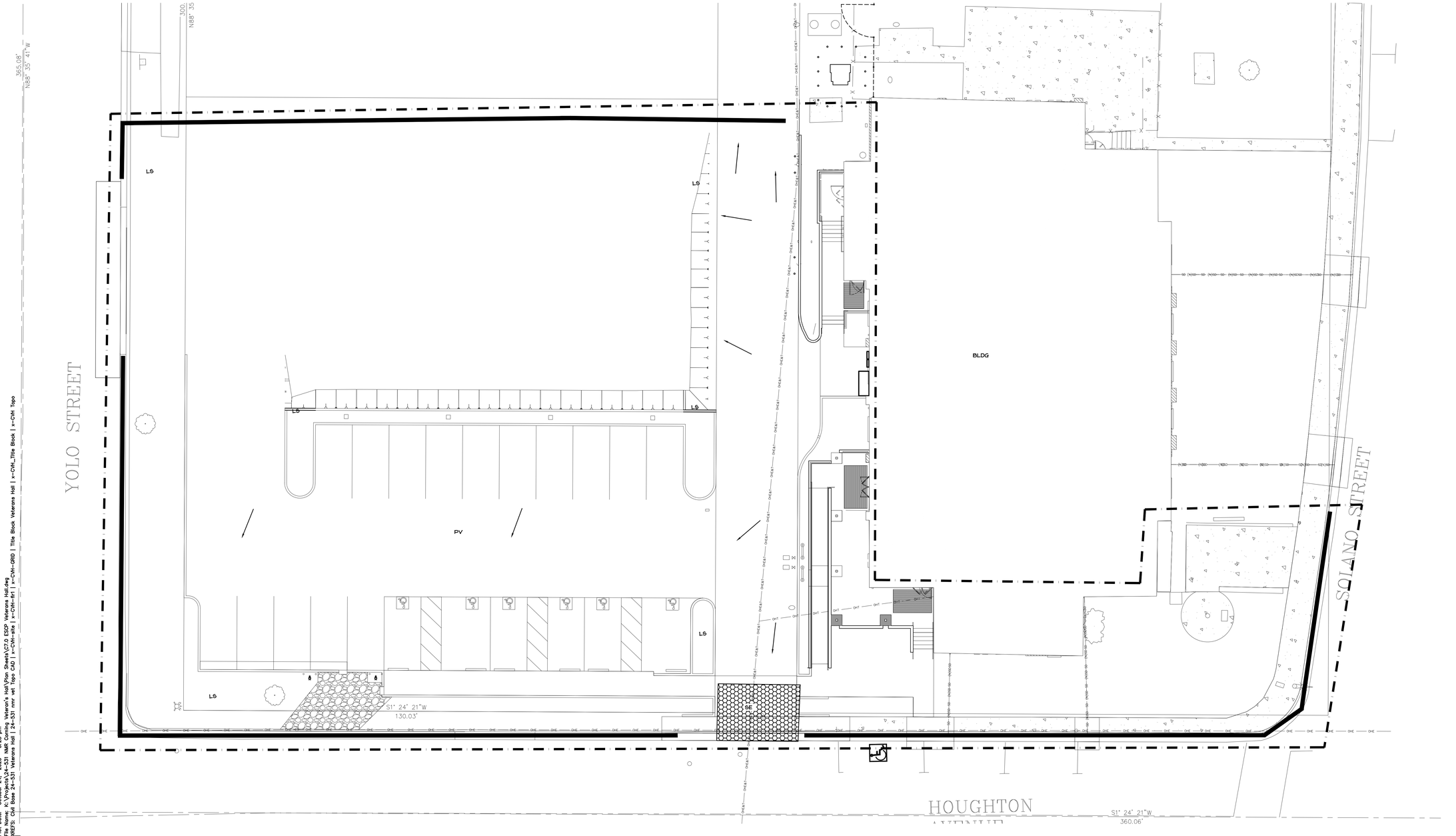
LEGEND

	STABILIZED CONSTRUCTION ENTRANCE (SE)
	DRAINAGE PATTERNS
	SILT FENCE OR STRAW ROLLS (ADJUST TO SUIT FIELD CONDITIONS)
	LIMITS OF CONSTRUCTION

SE	STABILIZED ENTRANCE
LS	LANDSCAPE
PV	PAVEMENT AREA
SF/SR	SILT FENCE/STRAW ROLLS
CW	CONCRETE WASHOUT
BLDG	BUILDING AREA

10 0 10 20 30

SCALE: 1" =10'



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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER — RUSSELL T. ERICKSON — No. 58460 — CIVIL — STATE OF CALIFORNIA

10/24/2025

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KMJ
Date Issued	2/13/2025
Scale	AS INDICATED
Project No.	21-6497

SHEET No.

C7.0

Login Name: kmjon
Plot Date: October 24, 2025 - 3:28 pm
File Name: K:\Projects\24-531 NMR Corning Veteran's Hall\Plan Sheets\C7.0 ESCP Veterans Hall.dwg
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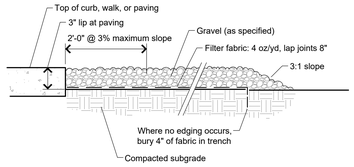
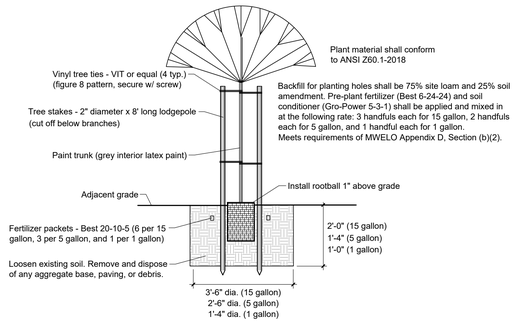


2 L1 Typical Gravel Section

Not to Scale



1 L1 Typical Planter Detail (Gravel Areas)

Not to Scale

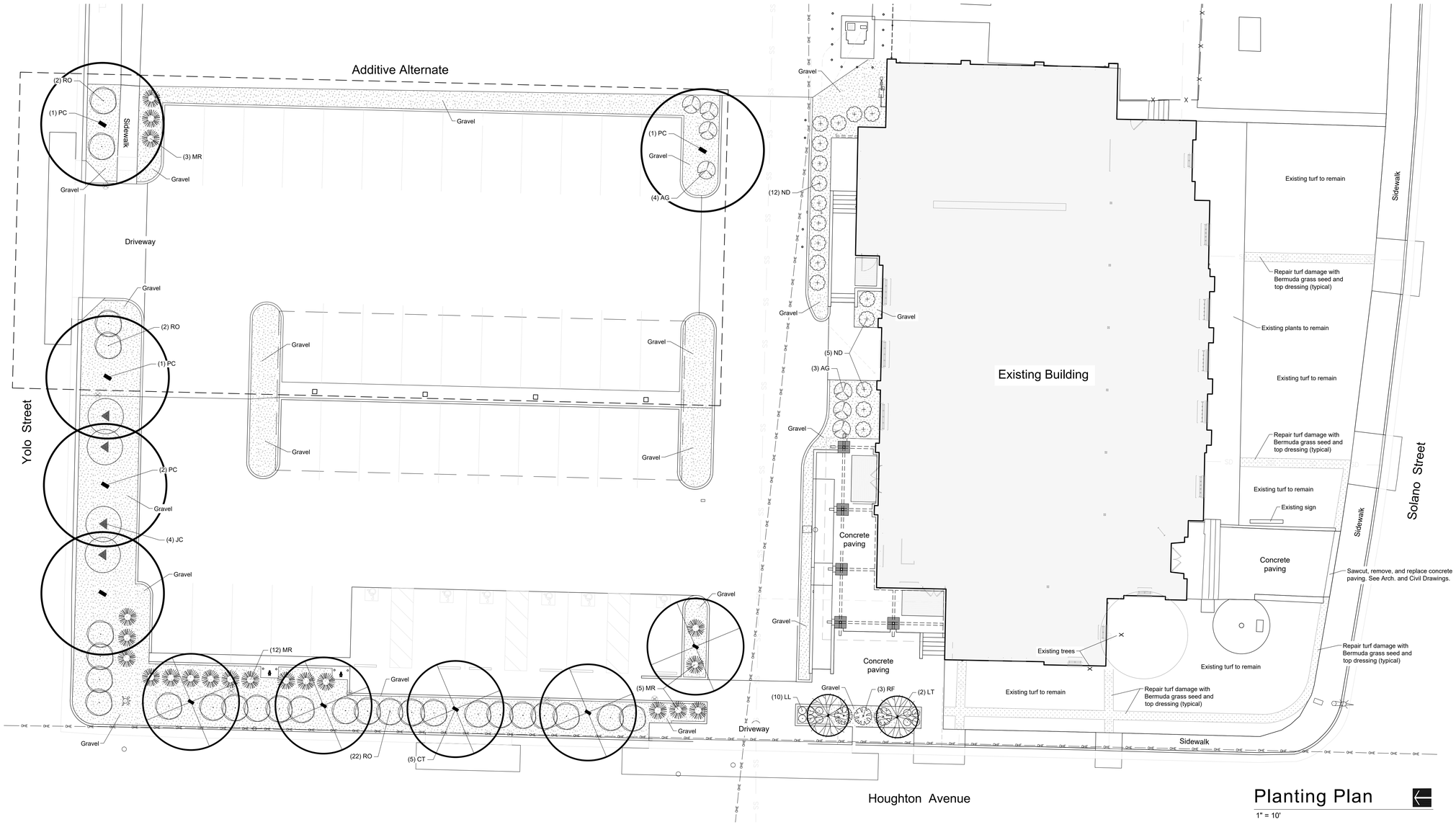
PLANT SCHEDULE - BASE BID

CODE	QTY	SIZE	BOTANICAL NAME	COMMON NAME	REMARKS
AG	3	5 gal.	Abelia x grandiflora 'Prostrata'	Prostrate Glossy Abelia	
CT	5	15 gal.	Chitalpa tashkentensis	Chitalpa	double stake
JC	4	5 gal.	Juniperus chinensis 'Armstrongii'	Armstrong Juniper	
LT	2	15 gal.	Lagerstroemia 'Tuscarora'	Tuscarora Crape Myrtle	standard, double stake
LL	10	1 gal.	Lomandra longifolia 'LM600'	Baby Breeze Mat Rush	
MR	17	1 gal.	Muhlenbergia rigens	Deer Grass	
ND	17	5 gal.	Nandina domestica 'Gulf Stream'	Gulf Stream Heavenly Bamboo	
PC	2	15 gal.	Pistacia chinensis 'Keith Davey'	Chinese Pistache	double stake
RF	3	5 gal.	Rosa x 'Noare'	Flower Carpet Red Groundcover Rose	
RO	22	1 gal.	Rosmarinus officinalis 'Huntington Carpet'	Huntington Carpet Rosemary	
MISCELLANEOUS					
	3,500 sf		Gravel (3/4" clean crushed stone, no fines) - 3" deep over filter fabric (4 oz/yd)		
seed	400 sf		Turf repair - seed with Improved Hybrid Bermuda grass at 4 pounds per 1,000 square feet and cover with 1/4" of fine wood mulch. Seeding must take place between April and October.		

PLANT SCHEDULE - ADD ALT

CODE	QTY	SIZE	BOTANICAL NAME	COMMON NAME	REMARKS
AG	4	5 gal.	Abelia x grandiflora 'Prostrata'	Prostrate Glossy Abelia	
MR	3	1 gal.	Muhlenbergia rigens	Deer Grass	
PC	3	15 gal.	Pistacia chinensis 'Keith Davey'	Chinese Pistache	double stake
RO	4	1 gal.	Rosmarinus officinalis 'Huntington Carpet'	Huntington Carpet Rosemary	
MISCELLANEOUS					
	1,460 sf		Gravel (3/4" clean crushed stone, no fines) - 3" deep over filter fabric (4 oz/yd)		

Total landscape area: 5,360 square feet
Total irrigated landscape area: 2,450 square feet



Planting Plan

1" = 10'

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LICENSE STAMPS

REGISTERED LANDSCAPE ARCHITECT MICHAEL J. LANDER 2399 10-15-25 Exp: 12/31/25 STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PLANTING PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	10/15/2025
Scale	1"=10'
Project No.	21-6497

SHEET No.

L1

Irrigation Schedule

Symbol	Description	Make/Model	Remarks
W	1" Water meter (irrigation meter)		see Civil Drawings
	1" Reduced pressure assembly and freeze blanket		see 1/L3
	Valve assembly - SCH 40 ball valve, 1" electric valve, 1" pressure regulating filter (200 mesh, 40 psi outlet)	Rainbird 100-DVF valve, PRB-100 filter	see 2/L3
	Existing electric valve to remain		connect to new irrigation mainline and control wires
	Ball valve (SCH 40 PVC)		see 3/L3, line size
	3/4" Quick coupler valve with locking cover & swivel key	Rainbird 3-RC with 33K key & SH-1 swivel	see 4/L3
	5/8" Drip tubing and pressure compensating emitters with check valve	Rainbird XBS polyethylene tubing and XBCV-20PC PC / XBCV-05 PC emitters	see 6/L3 and Emitter Schedule below, surface installation, cover with mulch
	PVC to drip tubing adapter		see 7/L3
	Flush end		figure 8 clamp
	Drip System Operation Indicator (8" height, 1/2" MPT)	DIG "DSPI-08"	install per manufacturer's instructions, 1 per circuit
	Mainline - Schedule 40 PVC Pipe		1-1/4" if not sized on plan
	Lateral - Schedule 40 PVC Pipe		3/4" if not sized on plan
	Sleeve - 3" PVC Pipe		see 8/L3, install 1 sleeve unless noted on plan
	SCH 40 PVC conduit with control wires		size as needed
C *	Irrigation Controller - outdoor case, 6 station, wireless weather sensor, receiver, and guard	Hunter XC-600 controller, WSS-SEN sensor/receiver and WR-GUARD	see 9/L3, exterior wall mount, verify location and power in field, install sensor on solar structure (verify)

Irrigation system is designed for a maximum flow rate of 20 GPM and a minimum static pressure of 60 PSI. If flow or pressure differ by more than 10%, contact Landscape Architect.

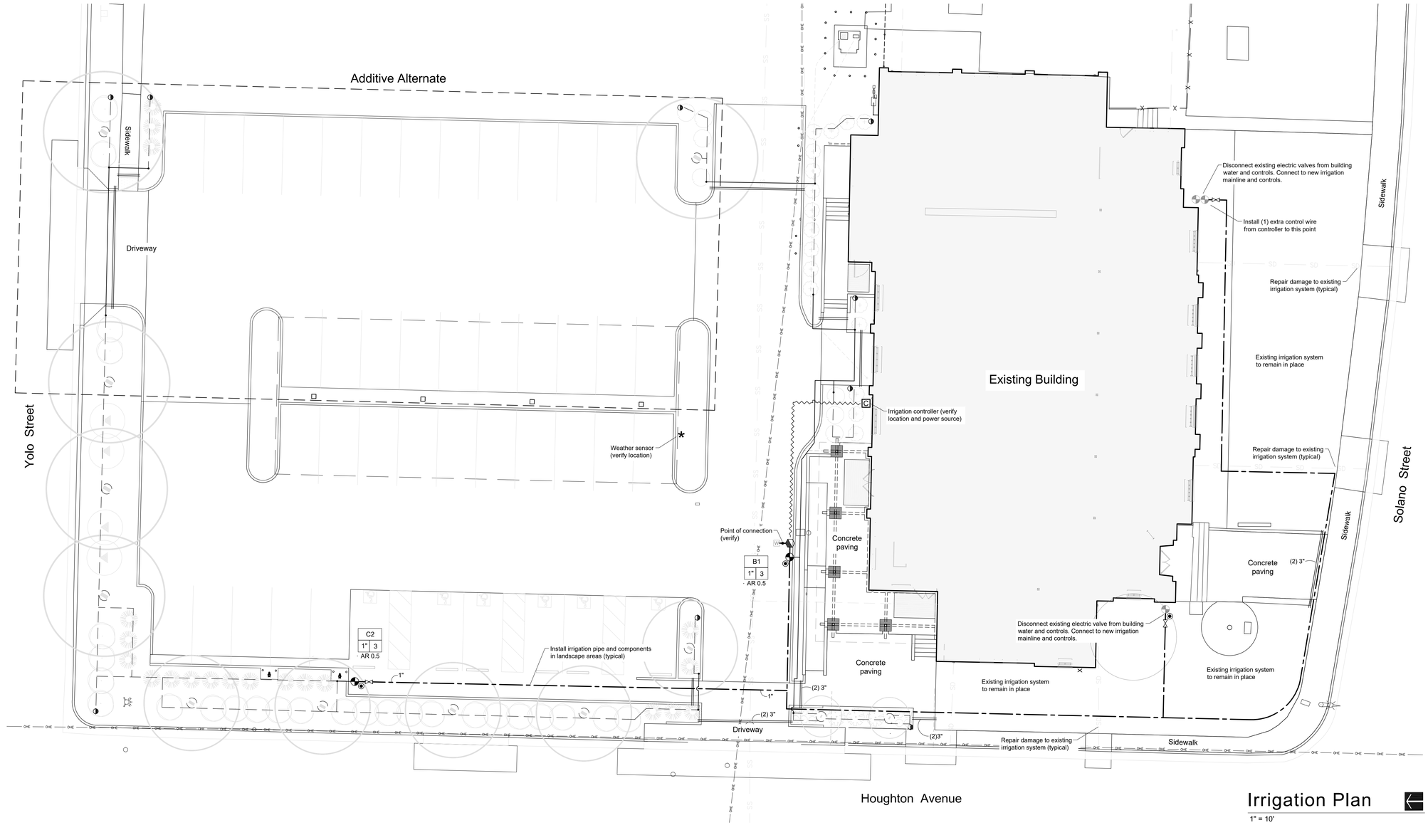
Irrigation plan is diagrammatic. Install all irrigation components in landscape areas.

Water source: potable, City of Corning

Emitter Schedule

15 gallon	(5) 2.0 GPH emitters
5 gallon	(2) 2.0 GPH emitters
1 gallon	(2) 1.0 GPH emitter

Valve size: 1" | A3 (Program / Station number) | 5 (GPM) | AR 0.5 (Application rate (inches per hour))



Irrigation Plan

1" = 10'

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LICENSE STAMPS

REGISTERED LANDSCAPE ARCHITECT
MICHAEL J. LANDER
2399
10-15-25
Exp. 12/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

IRRIGATION PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	10/15/2025
Scale	1"=10'
Project No.	21-6497

SHEET No.

L2

California Water Efficient Landscape Worksheet

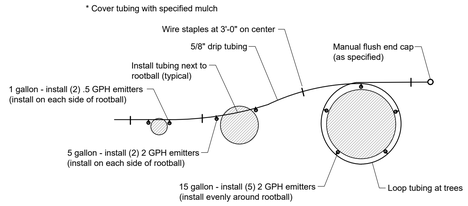
Reference Evapotranspi			50.7		Project Type	Non-Residential	0.45
Hydrozone # / Planting Descriptio n[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
B1	0.4	Drip	0.81	0.49	530	262	8227
C2	0.3	Drip	0.81	0.37	1920	711	22353
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
			0.75	0.00		0	0
				Totals	2450	973	30580
Special Landscape Areas							
	[redacted]			1		0	0
				1		0	0
				1		0	0
				1		0	0
				Totals	0	0	0
						ETWU Total	30580
						Maximum Allowed Water Allowance (MAWA)[e]	34656

ETAF Calculations

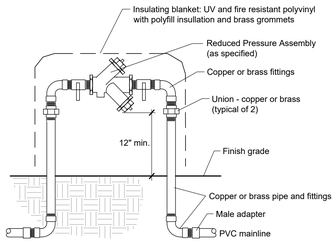
Regular Landscape Areas	
Total ETAF x Area	973
Total Area	2450
Average ETAF	0.40

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

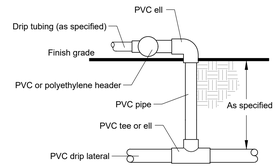
All Landscape Areas	
Total ETAF x Area	973
Total Area	2450
Average ETAF	0.40



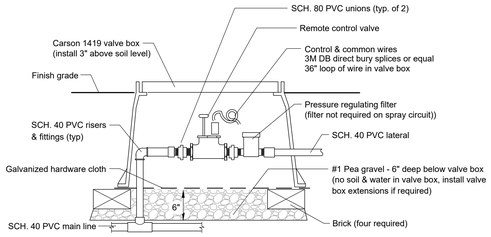
6 L3 Drip Layout (Plug-in)
Not to Scale



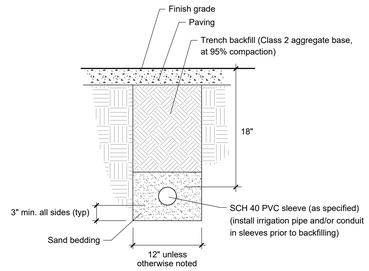
1 L3 Reduced Pressure Assembly
Not to Scale



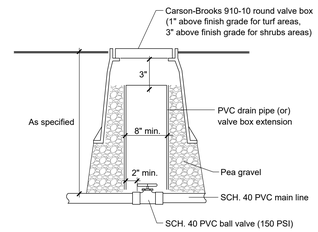
7 L3 Drip Connection
Not to Scale



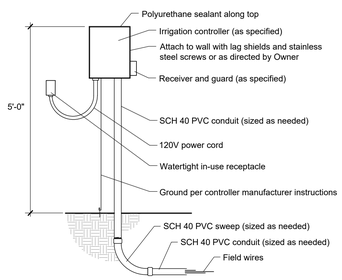
2 L3 Valve Assembly
Not to Scale



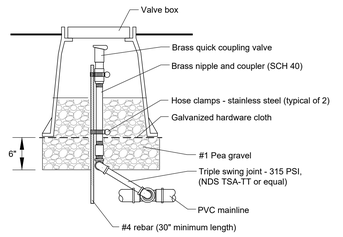
8 L3 Sleeve
Not to Scale



3 L3 Ball Valve
Not to Scale

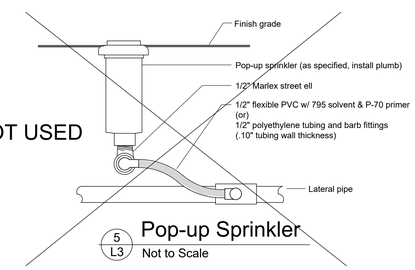


9 L3 Irrigation Controller
Not to Scale



4 L3 Quick Coupler Valve
Not to Scale

NOT USED



5 L3 Pop-up Sprinkler
Not to Scale

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CONSULTANTS

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LICENSE STAMPS

REGISTERED LANDSCAPE ARCHITECT MICHAEL J. LANDER 2399 12-15-25 Exp. 12/31/25 STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

IRRIGATION DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

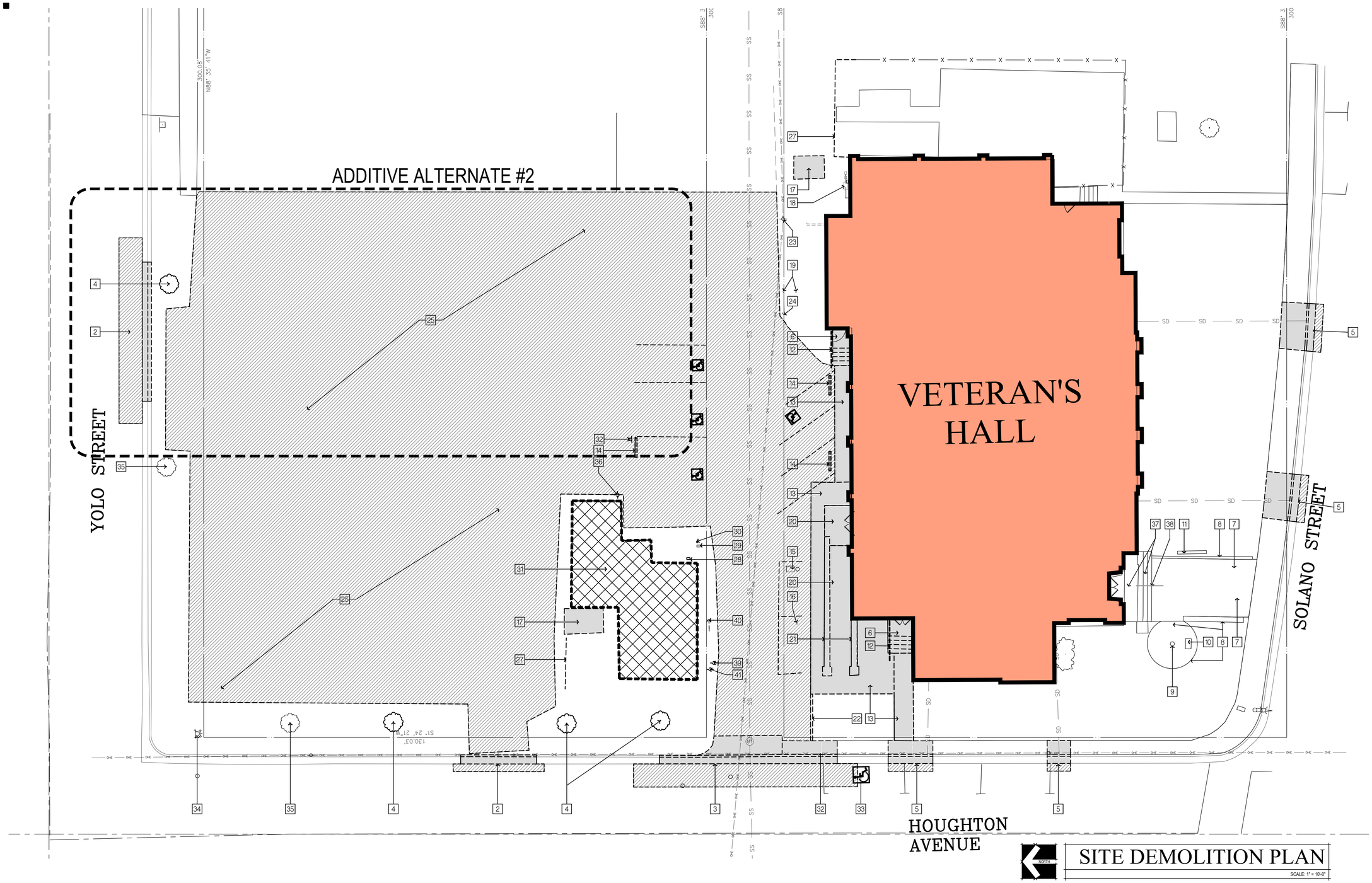
REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	10/15/2025
Scale	
Project No.	21-6497

SHEET No.

L3



SITE DEMOLITION PLAN

SCALE: 1" = 10'-0"

GENERAL NOTES

1. PROVIDE SAFEGUARDS FOR CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS TO PROVIDE REASONABLE SAFETY TO LIFE AND PROPERTY FROM FIRE DURING SUCH OPERATIONS PER COMPLIANCE WITH "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" IN ACCORDANCE WITH CALIFORNIA FIRE CODE (CFC) CHAPTER 33, TITLE 19, DIVISION 1, CALIFORNIA CODE OF REGULATIONS (CCR)

SITE DEMOLITION SHEET NOTES

ALL ITEMS ARE EXISTING UNLESS MARKED AS NEW OR (N).

1. REMOVE DRIVEWAY CURB CUT: REMOVE CURB, GUTTER AND A.C. PAVING TO ACCOMMODATE NEW TYPICAL CURB AND GUTTER
2. REMOVE CURB, GUTTER AND A.C. PAVING TO ACCOMMODATE NEW DRIVEWAY CURB CUT
3. REMOVE CURB, GUTTER, SIDEWALK AND A.C. PAVING TO ACCOMMODATE NEW ALLEY INTERSECTION
4. REMOVE TREE AND ROOTS
5. REMOVE CURB, GUTTER, SIDEWALK AND A.C. PAVING TO ACCOMMODATE REPLACEMENT UNDER-SIDEWALK DRAIN
6. REMOVE BRICK STEPS AND LANDING AND SUBSTRUCTURE
7. EXISTING CONCRETE SIDEWALK TO REMAIN
8. CUSTOM BRICK PAVERS TO REMAIN
9. FLAG POLE AND DECORATIVE BASE TO REMAIN
10. DEDICATION MONUMENT: TO REMAIN
11. ELECTRONIC SIGN TO REMAIN.
12. REMOVE HANDRAIL
13. REMOVE CONCRETE SIDEWALK
14. REMOVE CONCRETE BUMPER
15. WATER METER, RELOCATE
16. SEWER CLEAN-OUT, REMOVE LATERAL
17. REMOVE CONCRETE SLAB
18. GAS METER
19. SEWER CLEAN-OUT TO REMAIN
20. REMOVE RAISE CONCRETE LANDING, RAMP AND HANDRAILS
21. REMOVE BRICK SITE WALL
22. REMOVE CONCRETE CURB
23. POWER POLE TO REMAIN
24. GUY WIRE TO REMAIN
25. REMOVE A.C. PAVING.
26. GUY WIRE TO BE RELOCATED
27. REMOVE FENCE
28. REMOVE GAS METER
29. REMOVE WATER METER
30. REMOVE SEWER CLEAN-OUT
31. REMOVE STRUCTURE, COMPLETE.
32. REMOVE SIGN
33. REMOVE PAINTED ACCESSIBLE PARKING SYMBOL
34. FIRE HYDRANT TO REMAIN
35. TREE TO REMAIN
36. REMOVE LIGHT POLE
37. EXISTING CONCRETE STEPS TO REMAIN
38. EXISTING HANDRAIL TO REMAIN
39. POWER POLE TO BE REMOVED BY PG&E
40. GUY WIRE TO BE REMOVED BY PG&E
41. REMOVED POWER POLE

LEGEND

- REMOVE CONCRETE PAVING, RAMPS AND STAIRS
- REMOVE ASPHALT PAVING
- REMOVE BUILDING

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT KYLE MATTHEWS C 27504 REN. 10/31/25 STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SITE
DEMOLITION PLAN

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1" = 10'-0"
Project No.	21-6497

SHEET No.

A001

Login Name: Kyle M
Plot Date: October 25, 2025 - 2:01 pm
File Name: N:\Projects\6000\Cad\2021\21-6497 Tehama Co. Corning Vets Hall\Drawings\CIVIL\SITE DEMO.dwg
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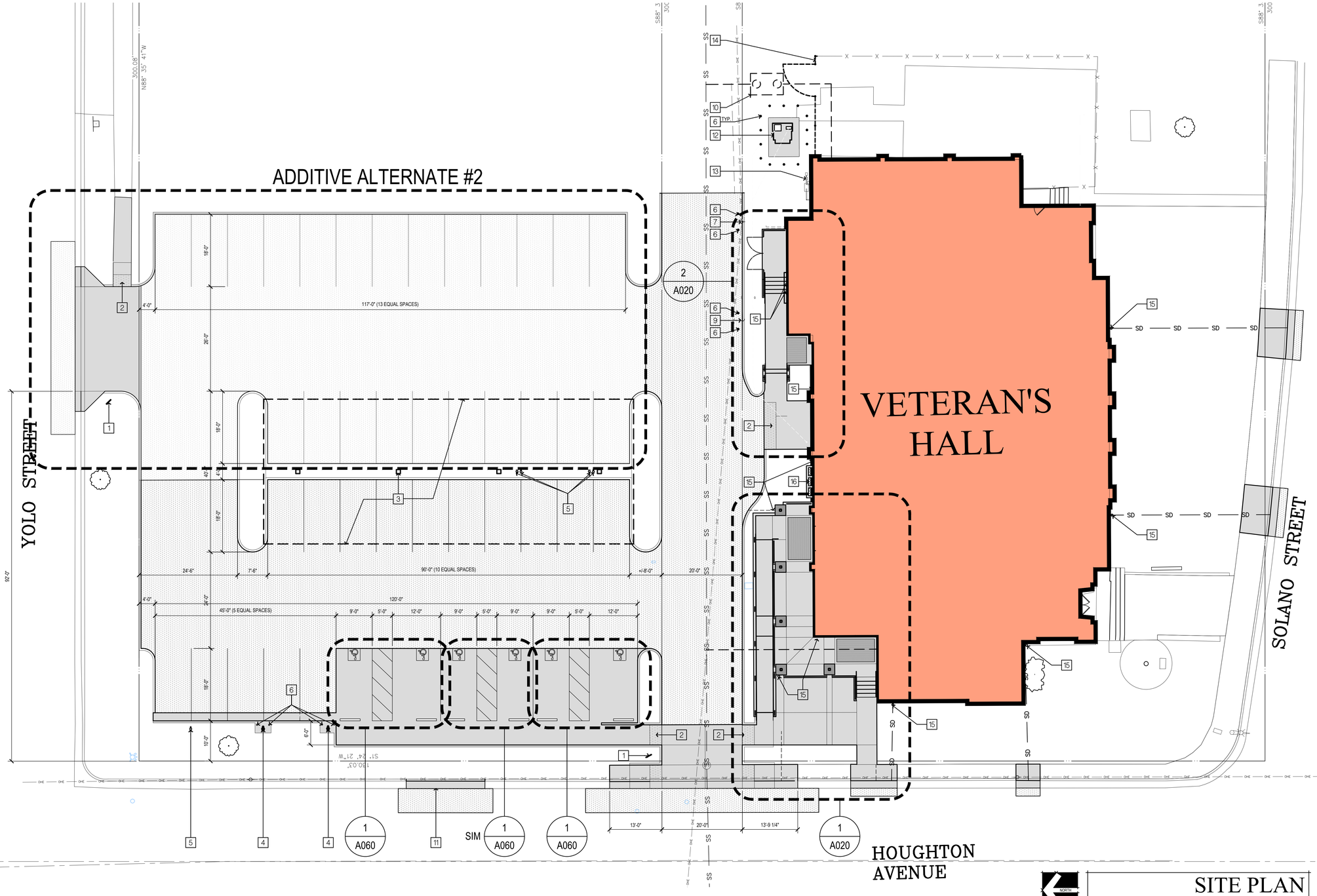

NORTH

SITE PLAN

SCALE: 1" = 10'-0"

GENERAL NOTES

1. PROVIDE SAFEGUARDS FOR CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS TO PROVIDE REASONABLE SAFETY TO LIFE AND PROPERTY FROM FIRE DURING SUCH OPERATIONS PER COMPLIANCE WITH "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" IN ACCORDANCE WITH CALIFORNIA FIRE CODE (CFC) CHAPTER 33, TITLE 19, DIVISION 1, CALIFORNIA CODE OF REGULATIONS (CCR)

SITE PLAN SHEET NOTES

ALL ITEMS ARE NEW UNLESS MARKED AS EXISTING OR (E).

1. TOW AWAY SIGN, SEE 4/060
2. CAST-IN-PLACE DETECTABLE WARNINGS, SEE 6/A060
3. PRE-ENGINEERED PHOTOVOLTAIC CANOPY SYSTEM.
4. EV. CHARGING STATION, SEE ELECTRICAL DRAWINGS
5. FUTURE EV CHARGING STATION, SEE ELECTRICAL DRAWINGS
6. BOLLARD
7. (E) POWER POLE
8. (E) GUY WIRE TO BE RELOCATED
9. (E) GUY WIRE
10. GREASE INTERCEPTOR
11. REPLACE CURB AND GUTTER AT (E) DRIVEWAY TO BE REMOVED
12. NEW TRANSFORMER SLAB, TRANSFORMER BY PG&E
13. (E) GAS METER
14. 6' TALL CHAINLINK FENCE AND 10' GATE. MATCH (E) FENCE
15. 4" DIA RWL. INDIRECT CONECTION TO 12" DIA DRAIN INLET. DAYLIGHT AT FACE OF CURB
16. EXTEND CRAWL SPACE VENT, TYPICAL.

LEGEND

- CONCRETE PAVING / SIDEWALK, SEE CIVIL DRAWINGS
- A.C. PAVING, SEE CIVIL DRAWINGS

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http://www.nmrdesign.com

CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT · KYLE MATTHEW · C 27504 · REN. 10/31/25 · STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SITE PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1" = 10'-0"
Project No.	21-6497

SHEET No.

A010

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Plot Date: October 26, 2025 - 3:23 pm
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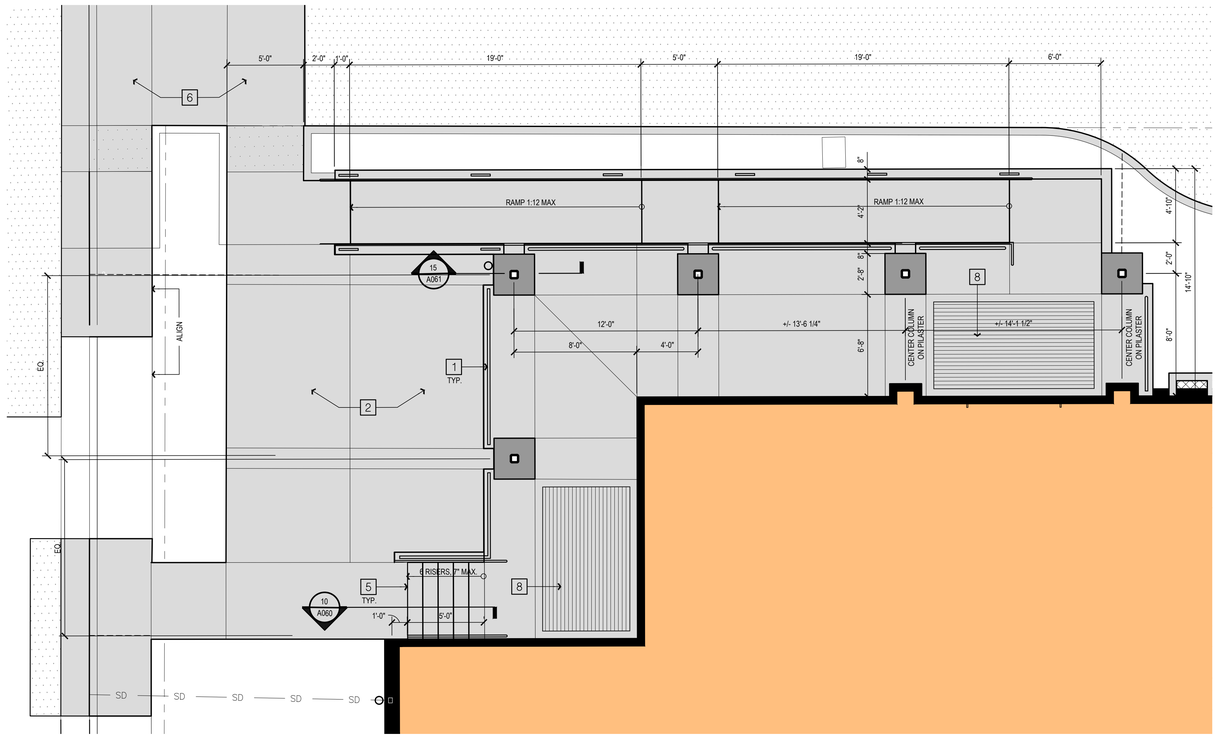
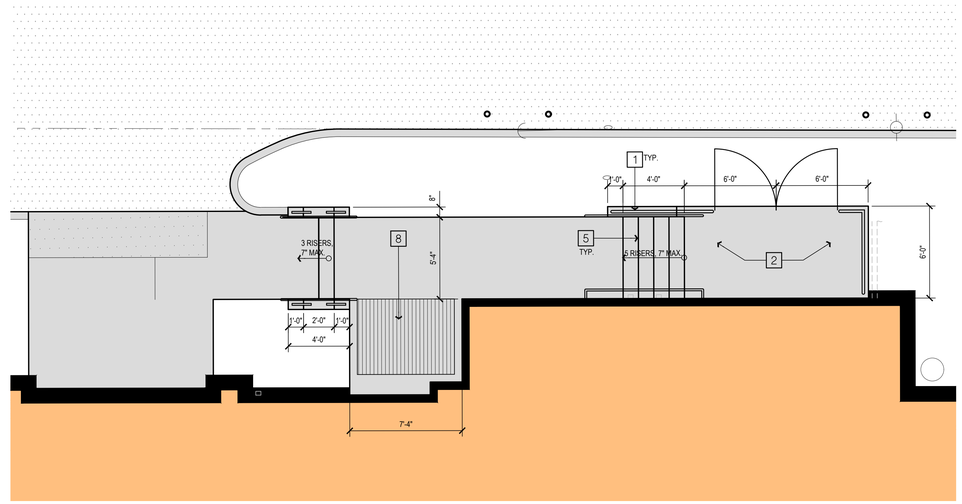


1 ENLARGED SITE PLAN

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



2 ENLARGED SITE PLAN

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

ENLARGED SITE PLAN GENERAL NOTES

1. PROVIDE SAFEGUARDS FOR CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS TO PROVIDE REASONABLE SAFETY TO LIFE AND PROPERTY FROM FIRE DURING SUCH OPERATIONS PER COMPLIANCE WITH "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" IN ACCORDANCE WITH CALIFORNIA FIRE CODE (CFC) CHAPTER 33, TITLE 19, DIVISION 1, CALIFORNIA CODE OF REGULATIONS (CCR)

SITE PLAN SHEET NOTES

ALL ITEMS ARE NEW UNLESS MARKED AS EXISTING OR (E).

1. GUARD RAIL, SEE 1/A061
2. CONC. WALK, SEE 8/A060
3. DOUBLE HANDRAIL, SEE 14/A060
4. RAISED PLANTER BEDS W/ CONCRETE WALLS WITH SELF ADHERED WATER PROOF MEMBRANE AND PROTECTION BOARD ON THE INSIDE FACE OF ALL WALLS.
5. CONCRETE STAIRS, SEE DETAIL 12/A060
6. CONCRETE PAVING, SEE DETAIL 9/A060
7. DECORATIVE HANDRAIL POST, SEE DETAIL 13/A060
8. RECESSED WALK-OFF MAT
9. RAISED PLANTER WITH SELF ADHERED WATER PROOF MEMBRANE AND PROTECTION BOARD ON THE INSIDE FACE OF ALL WALLS.

LEGEND

- CONCRETE PAVING / SIDEWALK, SEE CIVIL DRAWINGS
- A.C. PAVING, SEE CIVIL DRAWINGS
- MEMORIAL BRICK PAVER SYSTEM

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KYLE MATTSON
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REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ENLARGED SITE RAMPS & STAIRS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

A020

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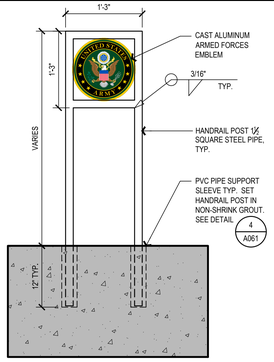
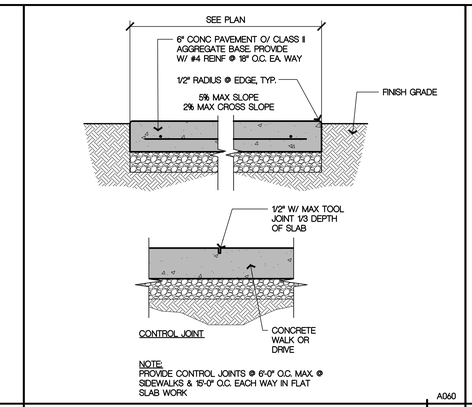


HANDRAIL POST

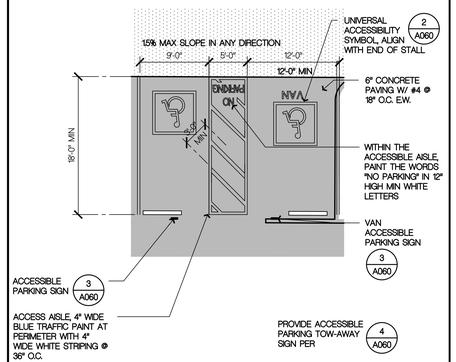
SCALE: 1"=1'-0" 13



A060

CONCRETE PAVING W/ REINFORCEMENT

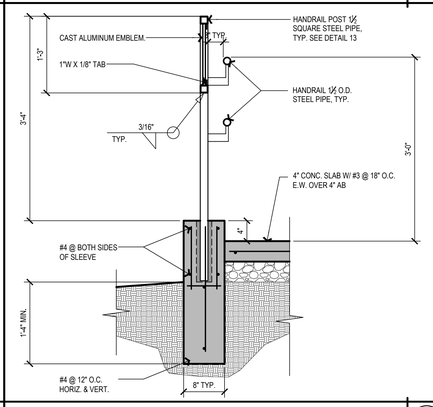
SCALE: 1"=1'-0" 9



A060

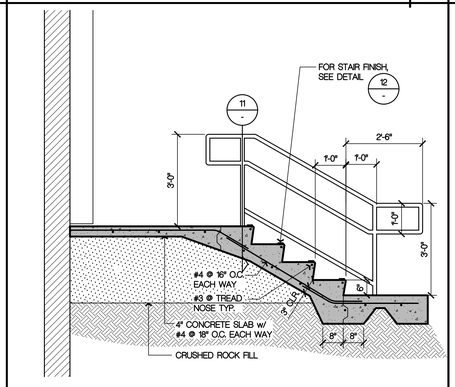
ENLARGED ACCESSIBLE PARKING PLAN

SCALE: 1/8"=1'-0" 1



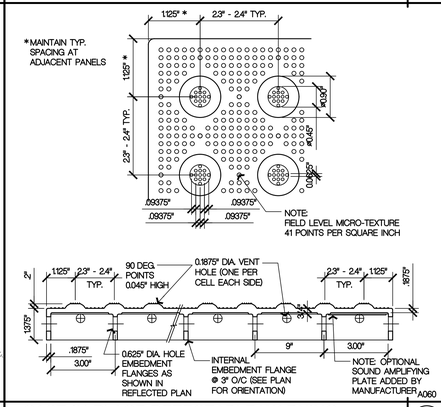
HANDRAIL AT RAMP

SCALE: 1"=1'-0" 14



EXTERIOR STAIR & HANDRAIL

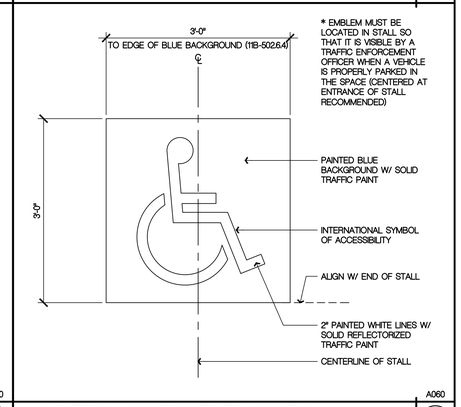
SCALE: 1/2"=1'-0" 10



A060

CAST-IN-PLACE DETECTABLE WARNING

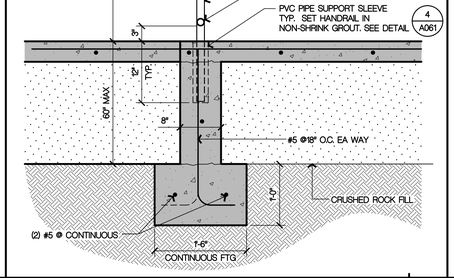
SCALE: N.T.S. 6



A060

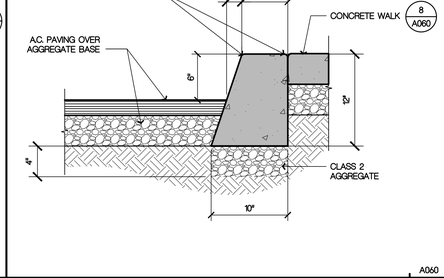
UNIVERSAL ACCESSIBILITY SYMBOL

SCALE: 1"=1'-0" 2



FOOTING AT HANDRAIL

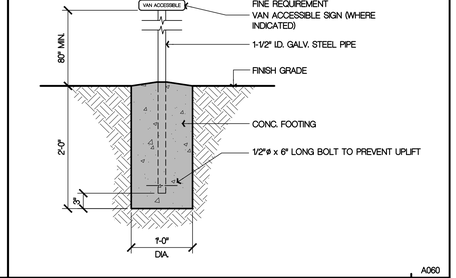
SCALE: 1"=1'-0" 11



A060

CONCRETE CURB AT SIDEWALK

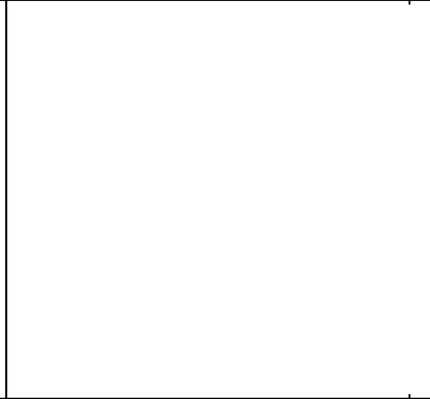
SCALE: 1-1/2"=1'-0" 7



A060

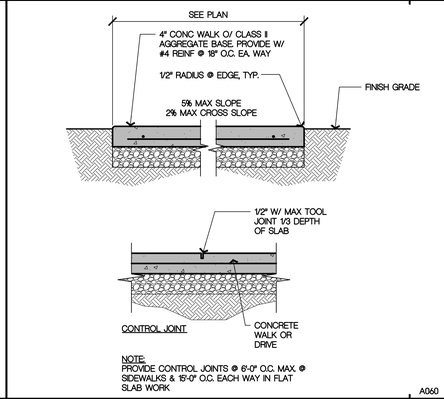
ACCESSIBLE PARKING SIGN AND POST

SCALE: 1"=1'-0" 3



STAIR FINISH

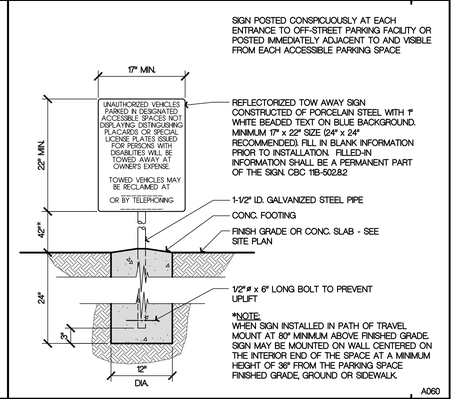
SCALE: 3" = 1'-0" 12



A060

CONCRETE WALK AND TYP. PAVING JOINTS

SCALE: 1"=1'-0" 8



A060

ACCESSIBLE PARKING TOW SIGN

SCALE: 1"=1'-0" 4

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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SITE DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

A060

Login Name: kyle.m
Plot Date: October 28, 2025 - 3:36 pm
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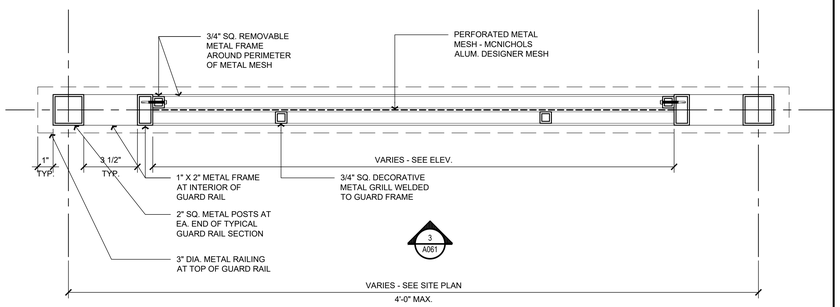
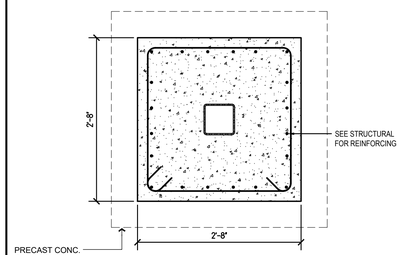


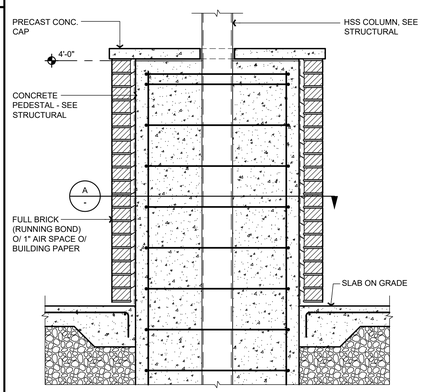
21-6497 A060

GUARD RAIL PLAN

SCALE: 3"=1'-0" (1)



A PLAN VIEW

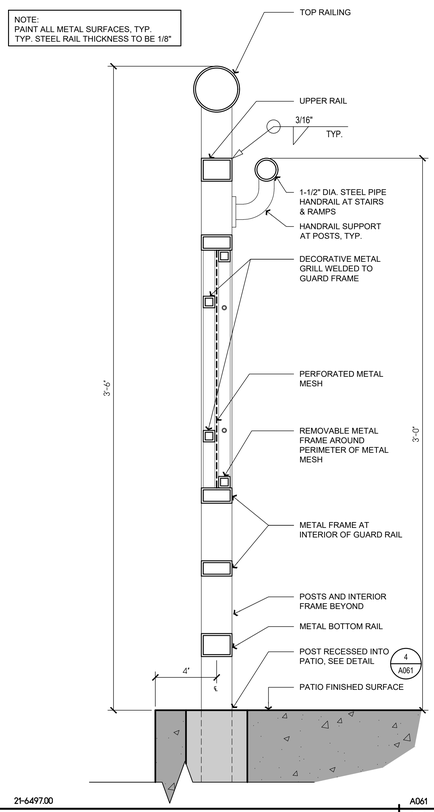


21-6497.00 A061

PATIO COLUMN

SCALE: 1"=1'-0" (15)

NOTE:
PAINT ALL METAL SURFACES, TYP.
TYP. STEEL RAIL THICKNESS TO BE 1/8"

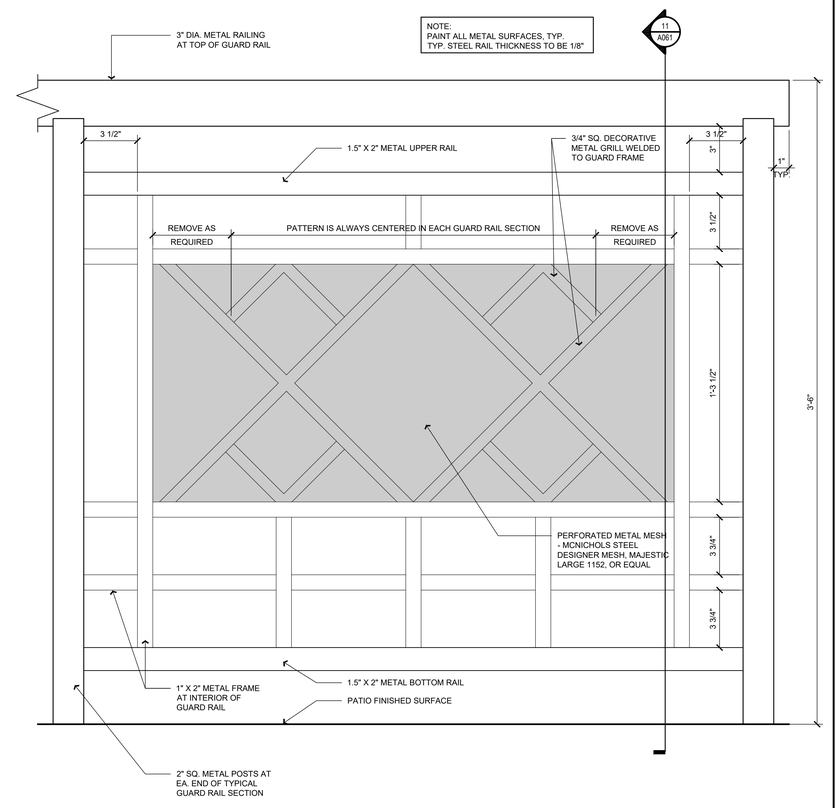


21-6497.00 A061

GUARD RAIL SECTION

SCALE: 3"=1'-0" (11)

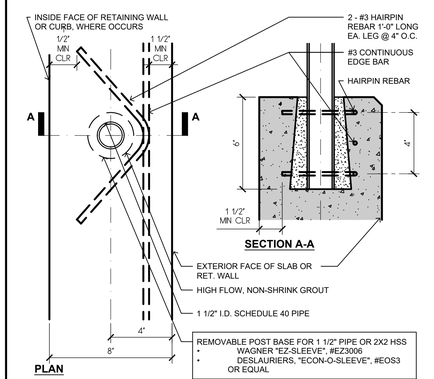
NOTE:
PAINT ALL METAL SURFACES, TYP.
TYP. STEEL RAIL THICKNESS TO BE 1/8"



21-6497 A060

GUARD RAIL ELEVATION

SCALE: 3"=1'-0" (3)



PLAN

HANDRAIL / GUARDRAIL ANCHORAGE

SCALE: 3" = 1'-0" (4)

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KYLE MATTHEW
C 27504
REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SITE DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

A061

Login Name: KleinP
Plot Date: February 13, 2025 - 8:49 am
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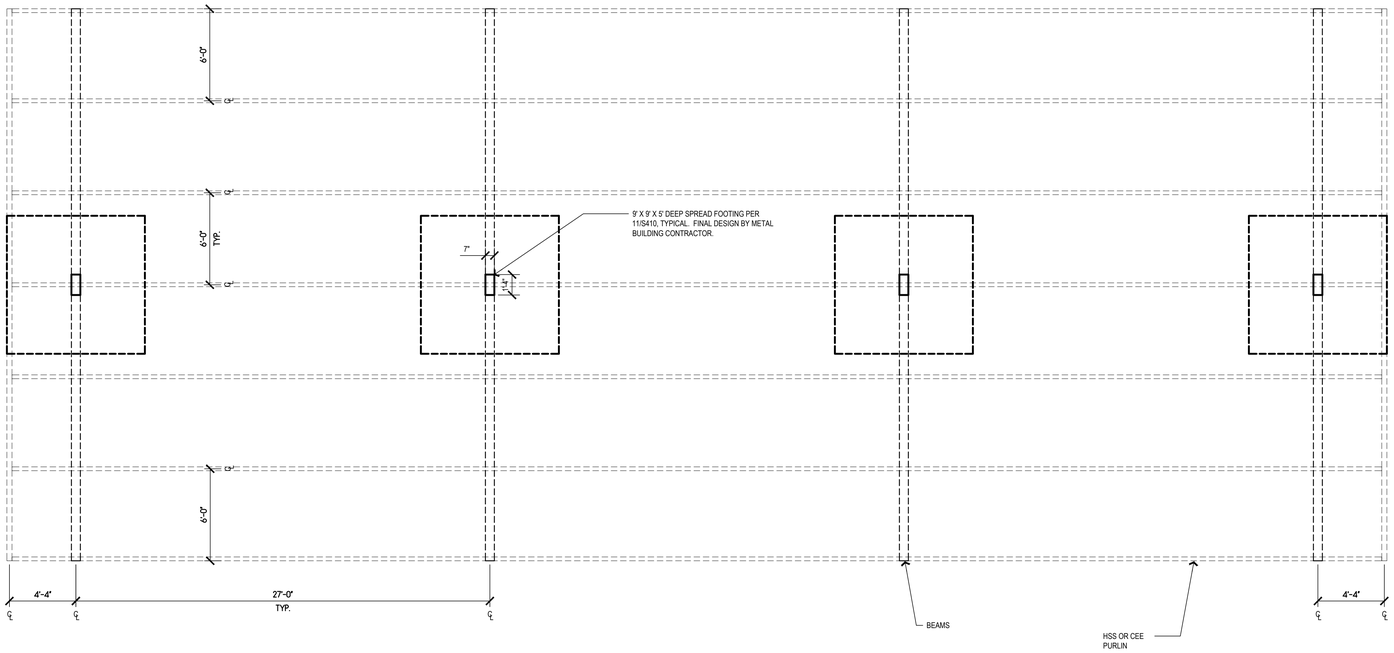
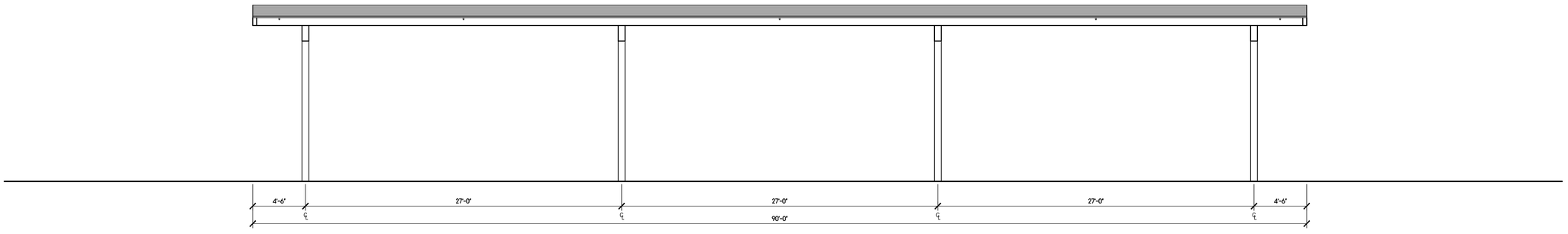
ADDITIVE ALTERNATE #3



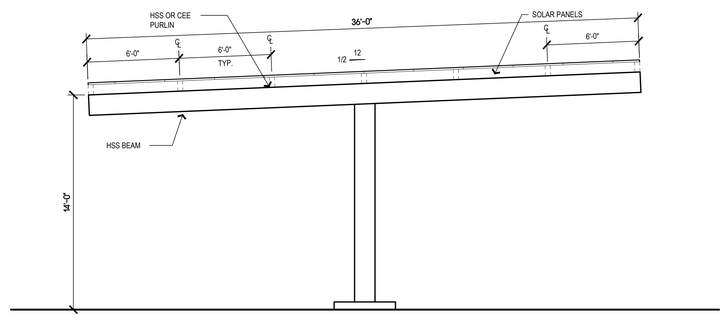
FRAMING PLAN

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



WEST ELEV.

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



SOUTH ELEV.

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

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STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SOLAR CARPORT FRAMING PLAN AND ELEVATIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

A062

Login Name: KleinP
Plot Date: February 13, 2025 - 8:51 am
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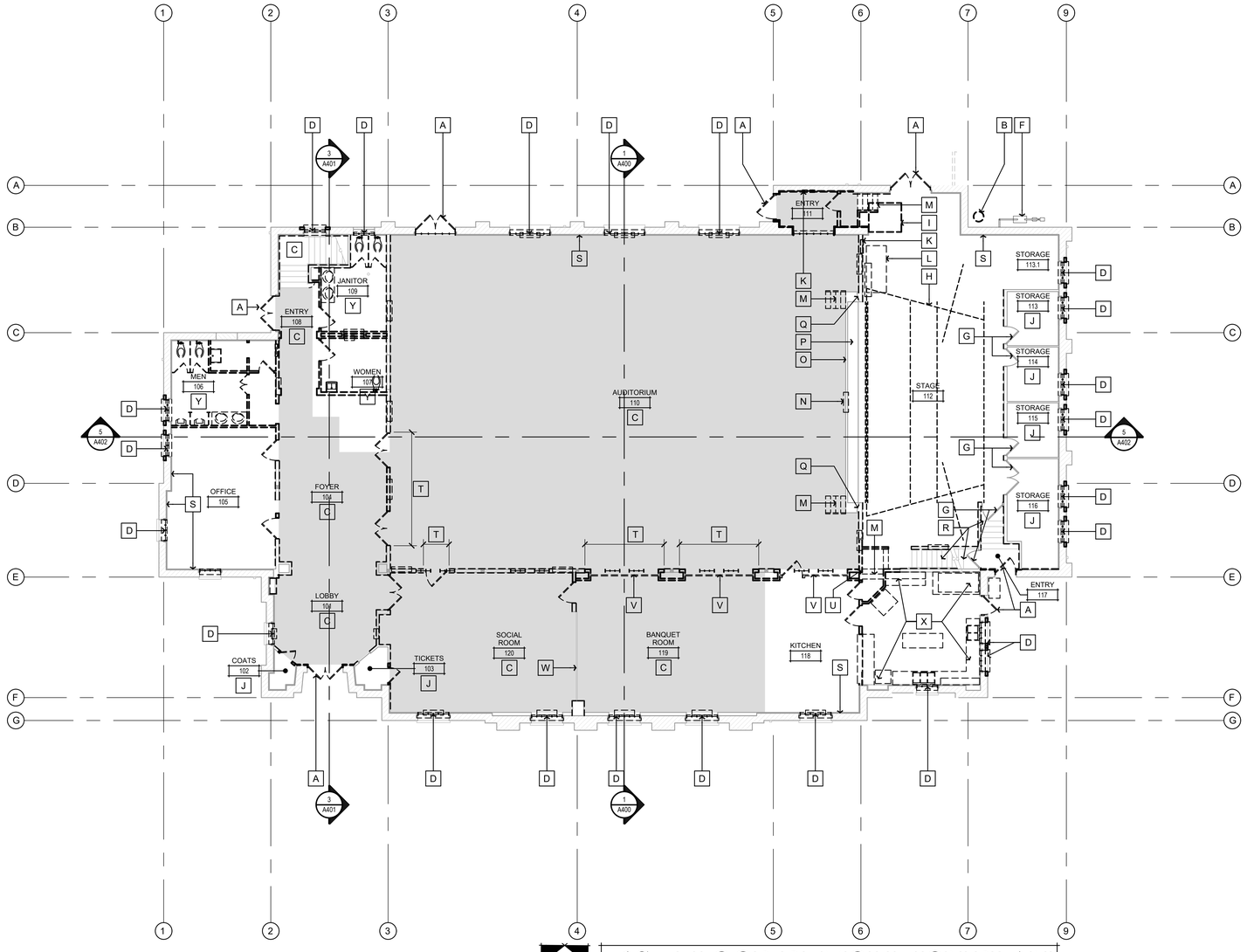

1ST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REMOVE ELECTRICAL SYSTEM, COMPLETE, U.N.O.
2. REMOVE MECHANICAL SYSTEM, COMPLETE, U.N.O.
3. EXTERIOR BRICK WALLS TO REMAIN, U.N.O.
4. INTERIOR WALL FRAMING TO REMAIN, U.N.O.
5. FLOOR AND ROOF FRAMING TO REMAIN, U.N.O.
6. REMOVE ALL INTERIOR FINISHES, U.N.O.
7. THE EXISTING BUILDING INCLUDES KNOWN HAZARDOUS MATERIALS. REFER TO SPECIFICATIONS FOR NESHAP SURVEY REPORT IDENTIFYING MATERIAL LOCATIONS AND ABATEMENT REQUIREMENTS.
8. FIELD-VERIFY EXISTING CONSTRUCTION DEPICTED IN THESE DRAWINGS AS IT IS UNCOVERED DURING CONSTRUCTION. NOTIFY THE COUNTY PROMPTLY IF EXISTING CONDITIONS ARE NOT AS INDICATED.
9. COORDINATE DEMOLITION WORK OF ALL DISCIPLINES WITH LOCATIONS AND DIMENSIONS OF NEW CONSTRUCTION INDICATED IN THESE DRAWINGS. PRIOR TO COMMENCING ANY DEMOLITION WORK, COORDINATE WITH APPROVED SHOP DRAWINGS AND MANUFACTURER'S DATA FOR NEW SYSTEMS, EQUIPMENT, FEATURES OF CONSTRUCTION AND TEMPORARY AND FINAL CONDITIONS AS INDICATED IN THESE DOCUMENTS.
10. DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT, AND FINISHES SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER, WITH CLEAN, STRAIGHT EDGES SUITABLE TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
11. ALL EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT AND FINISHES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION.
12. AT WALLS TO BE REMOVED, WORK SHALL INCLUDE REMOVAL AND CAPPING OFF OF ALL MECHANICAL, PLUMBING, ELECTRICAL AND RELATED PIPING, FIXTURES, CONDUIT, CABLING AND ALL OTHER EQUIPMENT WITHIN WALLS.

SHEET NOTES

ALL ITEMS ARE EXISTING UNLESS NOTED AS NEW OR (N)

- A REMOVE EXTERIOR, TYP.
- B REMOVE BOILER AND FLUE
- C HARDWOOD FLOORS TO BE REFINISHED, AREA SHOWN SHADED. PROTECT DURING DEMOLITION AND CONSTRUCTION
- D REMOVE EXTERIOR WINDOWS, TYP.
- E REMOVE INTERIOR DOORS, TYP. UNLESS NOTED OTHERWISE
- F GAS METER TO REMAIN
- G DOOR TO REMAIN
- H REMOVE STAGE CURTAINS AND RIGGING
- I REMOVE FLOOR FRAMING TO ACCOMMODATE NEW LIFT
- J FINISHES TO REMAIN IN THIS ROOM
- K REMOVE ELECTRICAL PANELS, TYP.
- L REMOVE TANK
- M REMOVE STAIRS
- N REMOVE RADIANT HEATERS, TYP.
- O TABLE STORAGE DOORS / SLIDES TO REMAIN
- P FLIP UP STAGE LIGHTING TO REMAIN
- Q STAGE OPENING TRIM TO REMAIN
- R STAIRS TO REMAIN
- S CONTRACTORS OPTION: WOOD FURRING AND INTERIOR STUCCO MAY REMAIN AT THIS WALL
- T REMOVE SECTION OF WALL / DOOR TO ACCOMMODATE NEW DOORS
- U POST TO REMAIN
- V REMOVE ROLLING DOOR
- W ROLLING DOOR TO REMAIN
- X REMOVE KITCHEN EQUIPMENT AND CABINETS. REINSTALL EQUIPMENT IDENTIFIED ON EQUIPMENT SCHEDULE.
- Y REMOVE RESTROOM FIXTURES, PARTITIONS, ACCESSORIES, FINISHES, COMPLETE

LEGEND

- WOOD FRAMED WALL TO REMAIN
- BRICK WALL TO REMAIN
- REMOVE WALL
- DOOR & FRAME TO BE REMOVED
- DOOR TO REMAIN
- PLUMBING FIXTURE TO BE REMOVED

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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FIRST FLOOR
DEMOLITION PLAN

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	10/15/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A101

Login Name: Kyle M
Plot Date: October 28, 2025 - 3:40 pm
File Name: N:\Projects\6000\Cad\22\21-6497 Tehama Co. Corning Vets Hall\Drawings\CVH - Demo Flr.dwg
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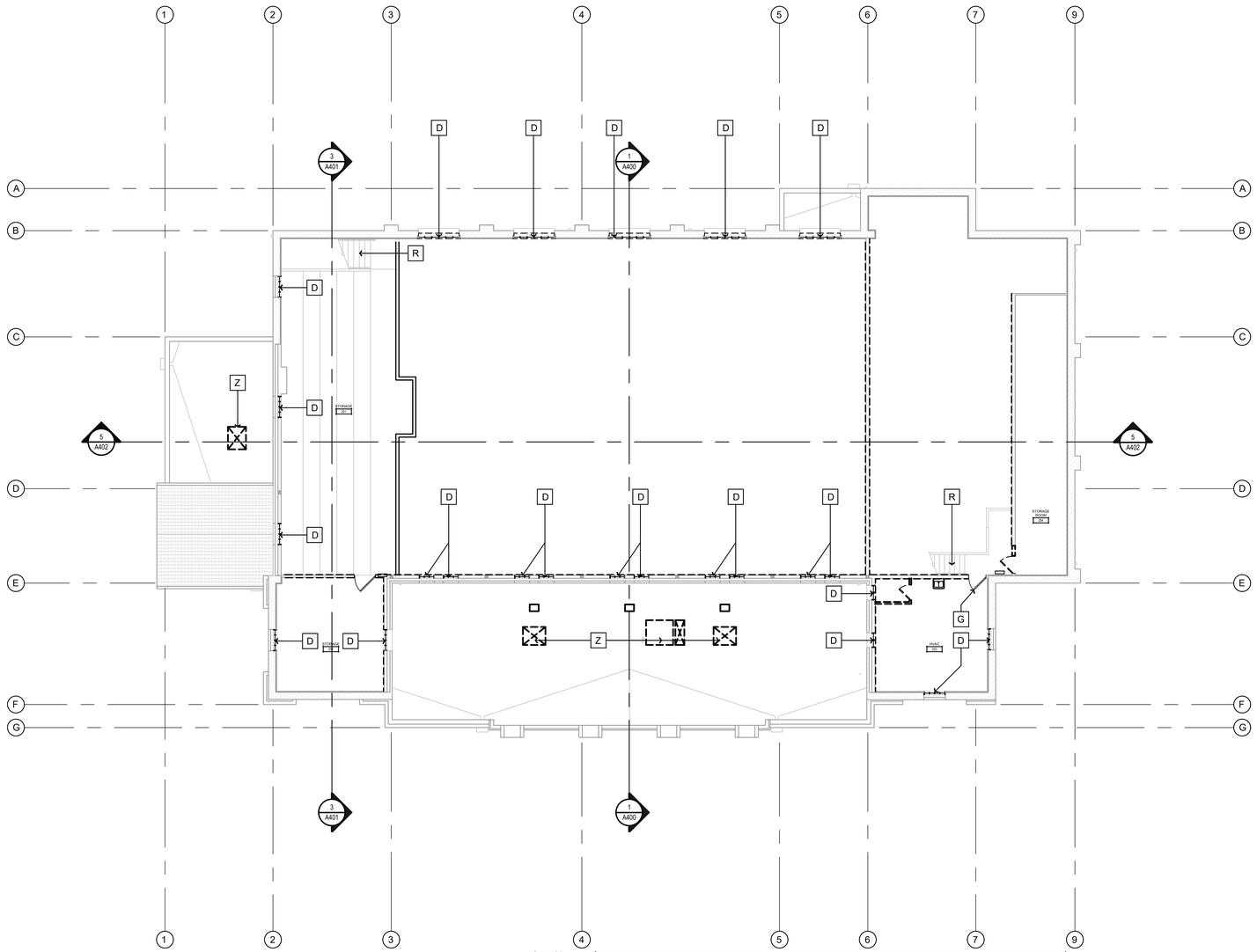

2ND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REMOVE ELECTRICAL SYSTEM, COMPLETE, U.N.O.
2. REMOVE MECHANICAL SYSTEM, COMPLETE, U.N.O.
3. EXTERIOR BRICK WALLS TO REMAIN, U.N.O.
4. INTERIOR WALL FRAMING TO REMAIN, U.N.O.
5. FLOOR AND ROOF FRAMING TO REMAIN, U.N.O.
6. REMOVE ALL INTERIOR FINISHES, U.N.O.
7. THE EXISTING BUILDING INCLUDES KNOWN HAZARDOUS MATERIALS. REFER TO SPECIFICATIONS FOR NESHAP SURVEY REPORT IDENTIFYING MATERIAL LOCATIONS AND ABATEMENT REQUIREMENTS.
8. FIELD-VERIFY EXISTING CONSTRUCTION DEPICTED IN THESE DRAWINGS AS IT IS UNCOVERED DURING CONSTRUCTION. NOTIFY THE COUNTY PROMPTLY IF EXISTING CONDITIONS ARE NOT AS INDICATED.
9. COORDINATE DEMOLITION WORK OF ALL DISCIPLINES WITH LOCATIONS AND DIMENSIONS OF NEW CONSTRUCTION INDICATED IN THESE DRAWINGS. PRIOR TO COMMENCING ANY DEMOLITION WORK, COORDINATE WITH APPROVED SHOP DRAWINGS AND MANUFACTURER'S DATA FOR NEW SYSTEMS, EQUIPMENT, FEATURES OF CONSTRUCTION AND TEMPORARY AND FINAL CONDITIONS AS INDICATED IN THESE DOCUMENTS.
10. DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT, AND FINISHES SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER, WITH CLEAN, STRAIGHT EDGES SUITABLE TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
11. ALL EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT AND FINISHES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION.
12. AT WALLS TO BE REMOVED, WORK SHALL INCLUDE REMOVAL AND CAPPING OFF OF ALL MECHANICAL, PLUMBING, ELECTRICAL AND RELATED PIPING, FIXTURES, CONDUIT, CABLING AND ALL OTHER EQUIPMENT WITHIN WALLS.

SHEET NOTES

ALL ITEMS ARE EXISTING UNLESS NOTED AS NEW OR (N)

- A REMOVE EXTERIOR, TYP.
- B REMOVE BOILER AND FLUE
- C HARDWOOD FLOORS TO BE REFINISHED, AREA SHOWN SHADED. PROTECT DURING DEMOLITION AND CONSTRUCTION
- D REMOVE EXTERIOR WINDOWS, TYP.
- E REMOVE INTERIOR DOORS, TYP. UNLESS NOTED OTHERWISE
- F GAS METER TO REMAIN
- G DOOR TO REMAIN
- H REMOVE STAGE CURTAINS AND RIGGING
- I REMOVE FLOOR FRAMING TO ACCOMMODATE NEW LIFT
- J FINISHES TO REMAIN IN THIS ROOM
- K REMOVE ELECTRICAL PANELS, TYP.
- L REMOVE TANK
- M REMOVE STAIRS
- N REMOVE RADIANT HEATERS, TYP.
- O TABLE STORAGE DOORS / SLIDES TO REMAIN
- P FLIP UP STAGE LIGHTING TO REMAIN
- Q STAGE OPENING TRIM TO REMAIN
- R STAIRS TO REMAIN
- S CONTRACTORS OPTION: WOOD FURRING AND INTERIOR STUCCO MAY REMAIN AT THIS WALL
- T REMOVE SECTION OF WALL / DOOR TO ACCOMMODATE NEW DOORS
- U POST TO REMAIN
- V REMOVE ROLLING DOOR
- W ROLLING DOOR TO REMAIN
- X REMOVE KITCHEN EQUIPMENT AND CABINETS. REINSTALL EQUIPMENT IDENTIFIED ON EQUIPMENT SCHEDULE.
- Y REMOVE RESTROOM FIXTURES, PARTITIONS, ACCESSORIES, FINISHES, COMPLETE
- Z REMOVE HVAC EQUIPMENT, TYP.

LEGEND

- WOOD FRAMED WALL TO REMAIN
- BRICK WALL TO REMAIN
- REMOVE WALL
- DOOR & FRAME TO BE REMOVED
- DOOR TO REMAIN
- PLUMBING FIXTURE TO BE REMOVED

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STATE OF CALIFORNIA

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TEHAMA COUNTY
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1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SECOND FLOOR
DEMOLITION PLAN

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A102

Login Name: KennerP
Plot Date: February 13, 2025 - 8:57 am
File Name: N:\Projects\6000\Cad\2021\21-6497 Tehama Co. Corning Vets Hall\Drawings\CVH - Demo FP2.dwg
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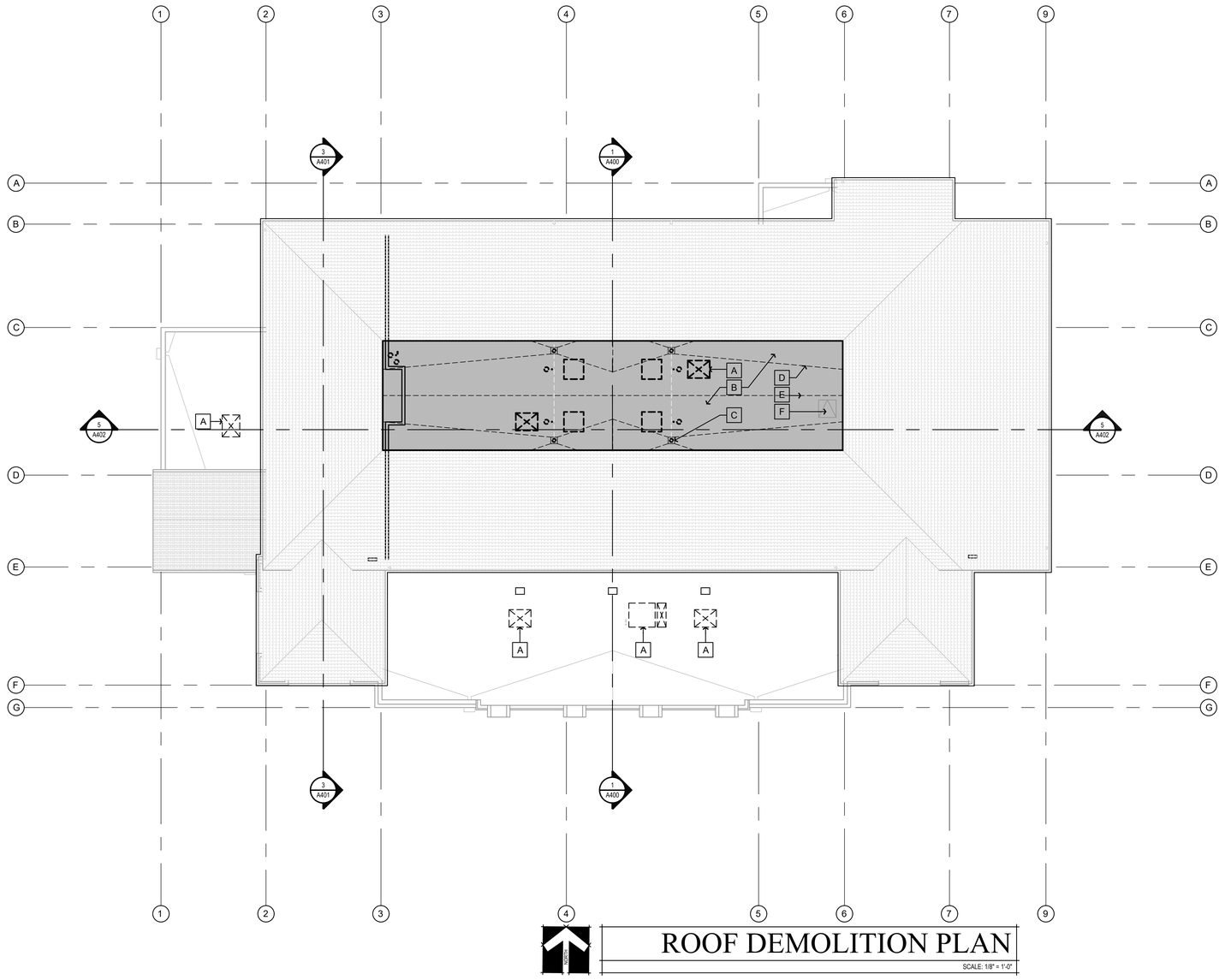

ROOF DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO PROTECT AND PRESERVE EXISTING BUILDING STRUCTURE AND EXISTING FINISHES THAT ARE TO REMAIN IN PLACE.

SHEET NOTES

ALL ITEMS ARE EXISTING UNLESS NOTED AS NEW OR (N)

- A — REMOVE HVAC UNIT, TYPICAL
- B — REMOVE SINGLE PLY ROOFING AT UPPER ROOF, TYPICAL
- C — REMOVE ROOF DRAIN
- D — REMOVE CANT SYSTEM
- E — EXISTING RIDGE
- F — EXISTING ROOF HATCH TO REMAIN
- G
- H

LEGEND

SPANISH TILE ROOF TO REMAIN

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PROJECT NAME

TEHAMA COUNTY
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1620 SOLANO ST.
CORNING, CA

SHEET TITLE

OVERALL DEMO ROOF PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	11/26/2024
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A120

Login Name: KeenerP
Plot Date: November 25, 2024 - 10:14 am
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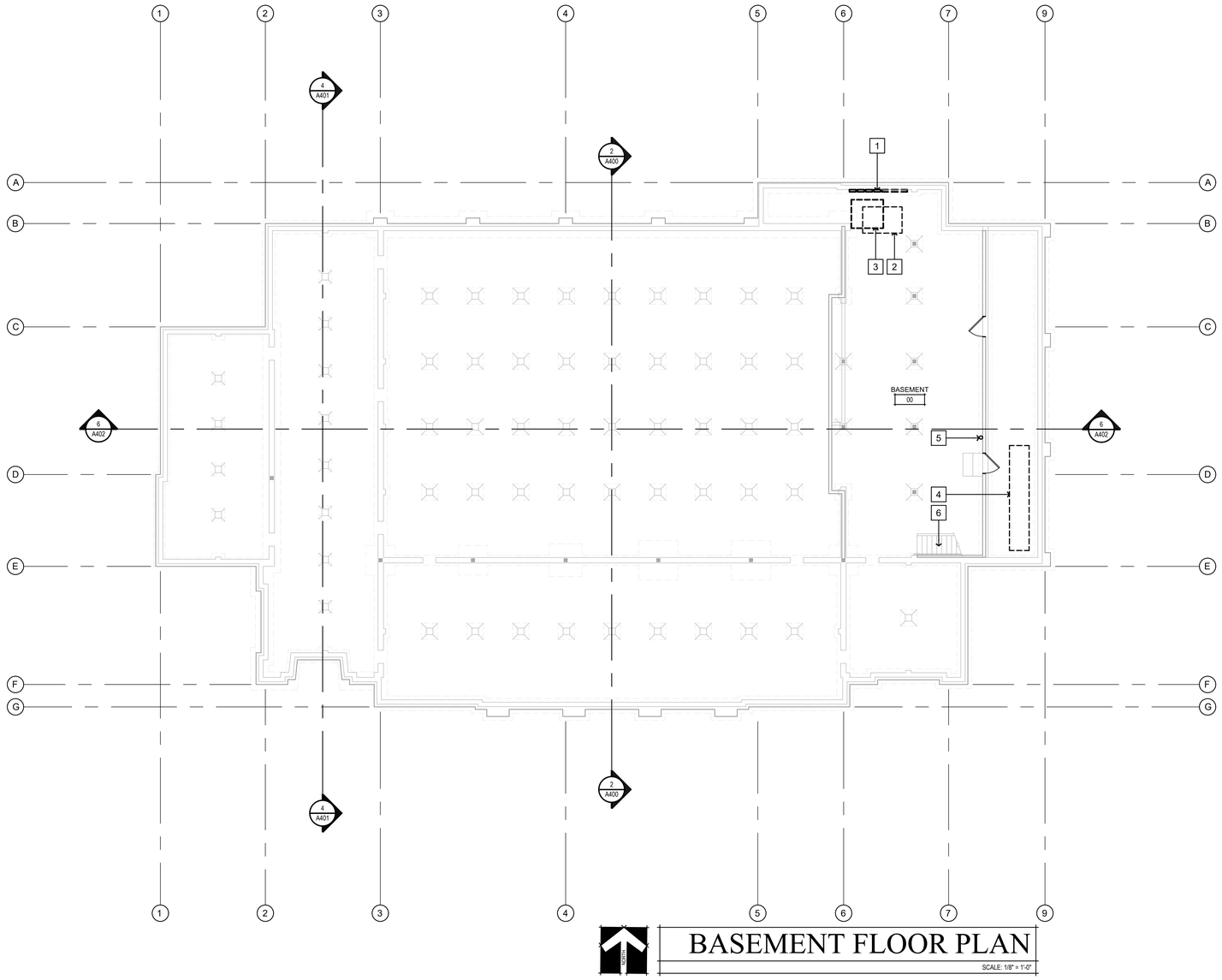

BASEMENT FLOOR PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

ALL ITEMS ARE EXISTING UNLESS NOTED AS NEW OR (N)

1. MAIN SWITCH GEAR AND DISTRIBUTION PANELS. REMOVE ELECTRICAL SYSTEMS, COMPETE.
2. REMOVE BOILER SYSTEM, COMPETE.
3. REPLACE FLOOR FRAMING AT NEW LIFT
4. AREA OF STRUCTURAL RETROFIT.
5. (N) FIRE EXTINGUISHER ON WALL BRACKET
6. STAIRS TO REMAIN

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TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

BASEMENT FLOOR PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

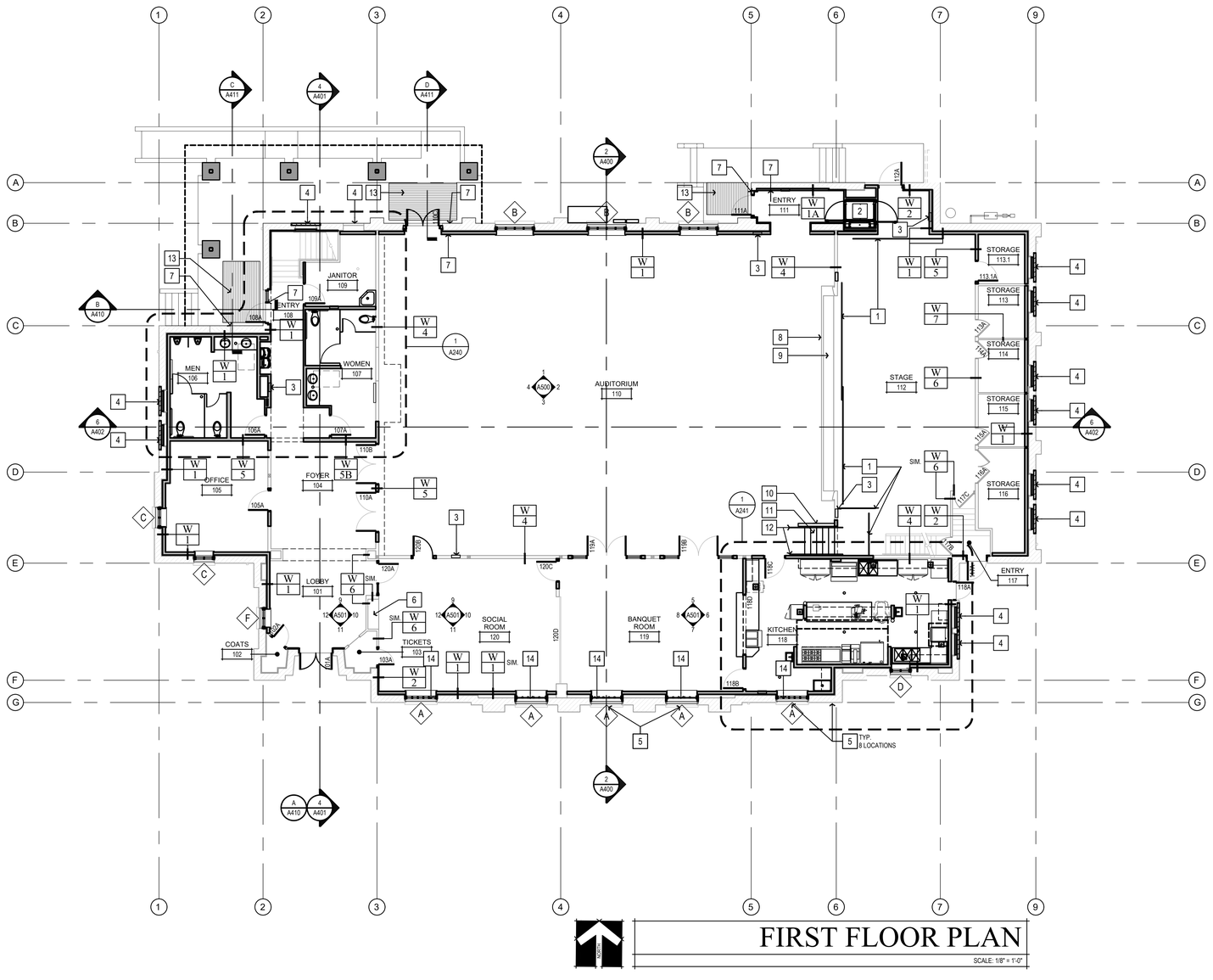
Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A200

Login Name: KevinP
Plot Date: February 13, 2025 - 9:01 am
File Name: N:\Projects\6000\Jobs\2021\21-6497 Tehama Co. Corning Vets Hall\Drawings\CVH - Bldg 1\Bldg 1 - CVH.rvt
Plot By: KevinP



FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING OR (E)

1. STAGE CURTAINS
2. ACCESSIBLE LIFT
3. FIRE EXTINGUISHER CABINET
4. BRICK INFILL AT WINDOWS TO BE REMOVED
5. EXTERIOR WALL CRACK REPAIR, SEE DETAIL 3/S410 FOR ADDITIONAL INFORMATION
6. DISPLAY CASE
7. DOOR OPERATOR CONTROL, HIGH AND LOW ACTIVATORS
8. (E) UNDER STAGE STORAGE DOORS TO REMAIN
9. (E) FLIP UP STAGE LIGHTING SYSTEM TO REMAIN
10. LOW WALL WITH WOOD PANELING
11. STAIRS
12. 1 1/2" DIA. STEEL HANDRAIL
13. WALK-OFF MAT
14. 10" x 4" x 3/8" ANGLE SUPPORT AT HEAD AND JAMBS OF ARCH TOP WINDOWS, TYPICAL. 1/2" EPOXY ANCHORS AT 24" O.C. TO EXISTING BRICK.

LEGEND

NOTE:

1. REFER TO DRAWING A720 FOR TYPICAL CONSTRUCTION ASSEMBLIES.
2. REFER TO THE LEGEND BELOW FOR TYPICAL GRAPHIC DESIGNATIONS
3. ALL INTERIOR WALLS WHICH SEPARATE ROOMS / AREAS HAVING ROOM NUMBERS WHICH DIFFER FROM OTHER ROOMS / AREAS HAVING ROOM NUMBERS SHALL RECEIVE 3-1/2" THICK PREFORMED MINERAL FIBER ACOUSTICAL INSULATION IN STUD CAVITIES.

- (E) WOOD FRAMED WALL TO REMAIN
- (E) BRICK WALL TO REMAIN
- NEW WOOD WALL OR FURRING — W / X WALL ASSEMBLY DESIGNATION
- DOOR TO REMAIN
- 117A DOOR AND FRAME WITH DOOR TAG (SEE DOOR SCHEDULE)
- B WINDOW (SEE WINDOW SCHEDULE)
- PLUMBING FIXTURE
- DRINKING FOUNTAIN

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STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FIRST FLOOR PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	10/15/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A201

Login Name: Kyle.M
Plot Date: October 28, 2025 - 3:43 pm
File Name: N:\Projects\6000\Cad\2021\21-6497 Tehama Co. Corning Vets Hall\Drawings\CV-H1 - fr.dwg
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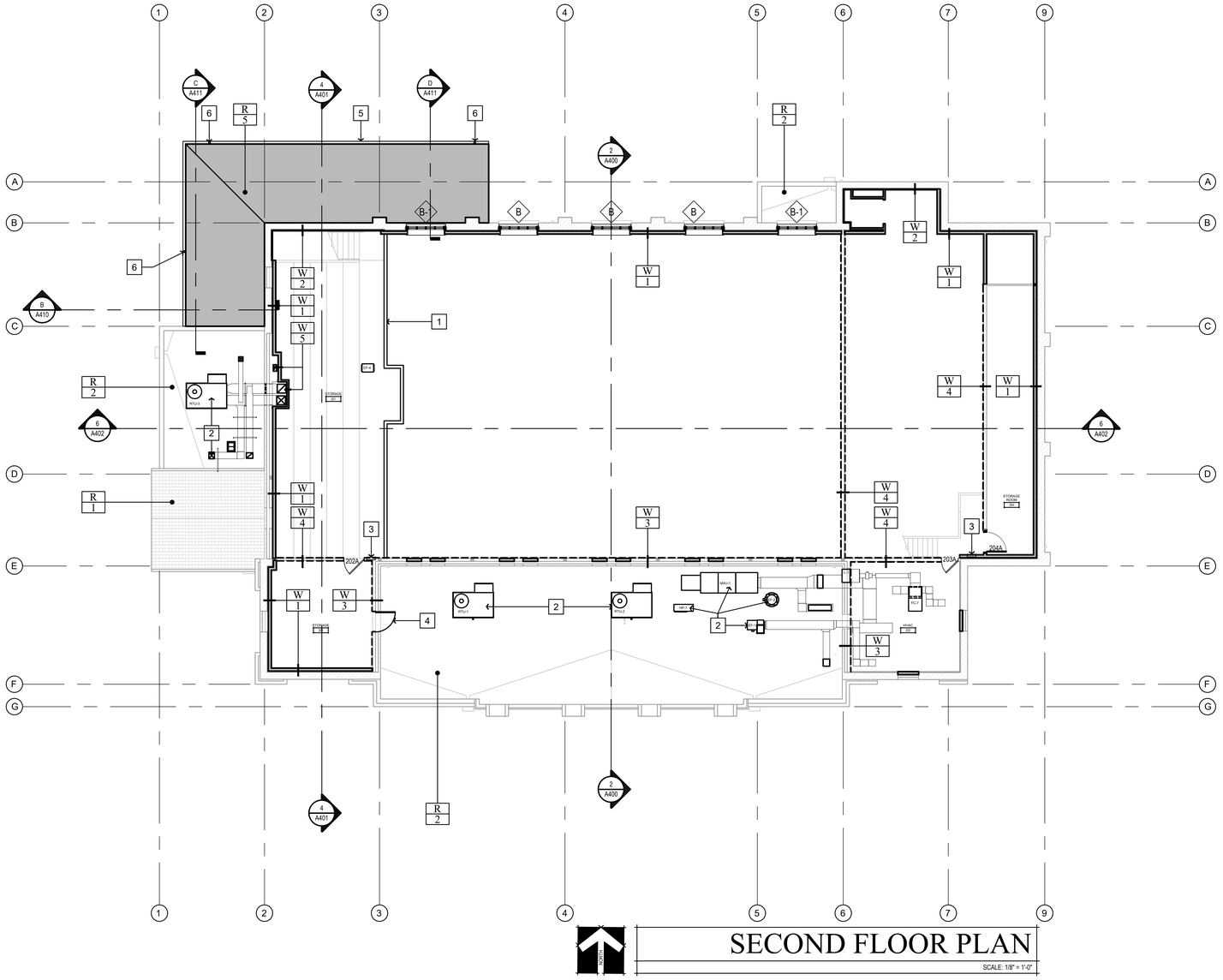

SHEET NOTES

ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING OR (E)

1. WOOD WALL CAP TO ALIGN WITH TRIM AT ACOUSTICAL PANELS
2. ROOF MOUNTED HVAC EQUIPMENT. ADD FOAM CRICKETS AND PATCH ROOFING.
3. FIRE EXTINGUISHER CABINET
4. ROOF ACCESS DOOR
5. GUTTER SYSTEM
6. 3" GALV. PIPE RAINWATER LEADER

LEGEND

NOTE:

1. REFER TO DRAWING A720 FOR TYPICAL CONSTRUCTION ASSEMBLIES.
2. REFER TO THE LEGEND BELOW FOR TYPICAL GRAPHIC DESIGNATIONS
3. ALL INTERIOR WALLS WHICH SEPARATE ROOMS / AREAS HAVING ROOM NUMBERS WHICH DIFFER FROM OTHER ROOMS / AREAS HAVING ROOM NUMBERS SHALL RECEIVE 3-1/2" THICK PREFORMED MINERAL FIBER ACOUSTICAL INSULATION IN STUD CAVITIES.

- (E) WOOD FRAMED WALL TO REMAIN
- (E) BRICK WALL TO REMAIN
- NEW WOOD WALL OR FURRING — W / X — WALL ASSEMBLY DESIGNATION
- DOOR TO REMAIN
- 117A — DOOR AND FRAME WITH DOOR TAG (SEE DOOR SCHEDULE)
- B — WINDOW (SEE WINDOW SCHEDULE)
- PLUMBING FIXTURE
- DRINKING FOUNTAIN

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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SECOND FLOOR PLAN
AND LOWER ROOF PLAN

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	10/15/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A202

Login Name: VaineS
Plot Date: October 20, 2025 - 5:59 pm
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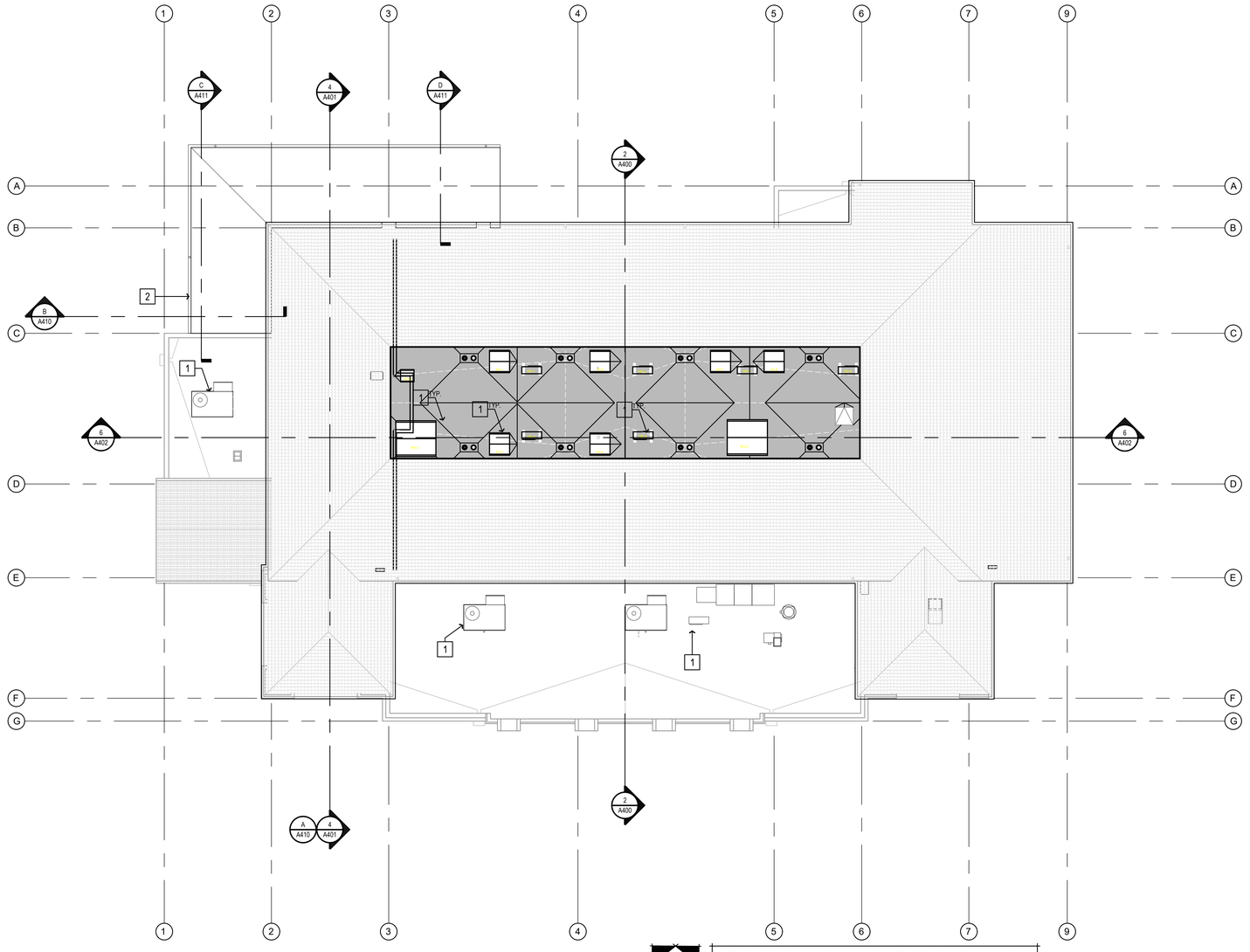

OVERALL ROOF PLAN

SCALE: 1/8" = 1'-0"

SHEET NOTES

ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING OR (E)

1. (N) HVAC UNIT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. (N) PARAPET.

LEGEND

- (E) ROOF
- (N) ROOF

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STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ROOF PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	10/15/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A220

Login Name: VictorS
Plot Date: October 21, 2025 - 12:02 pm
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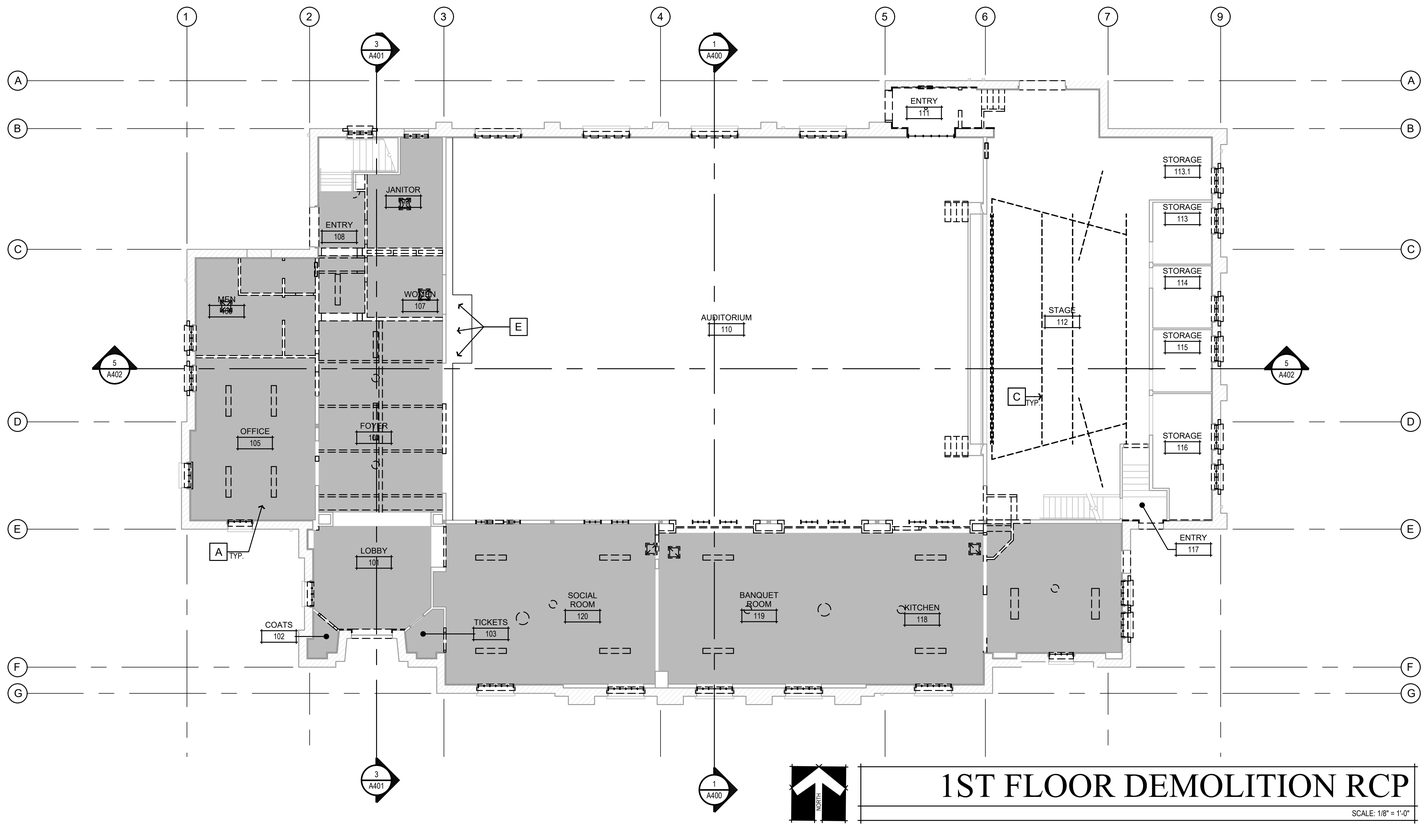
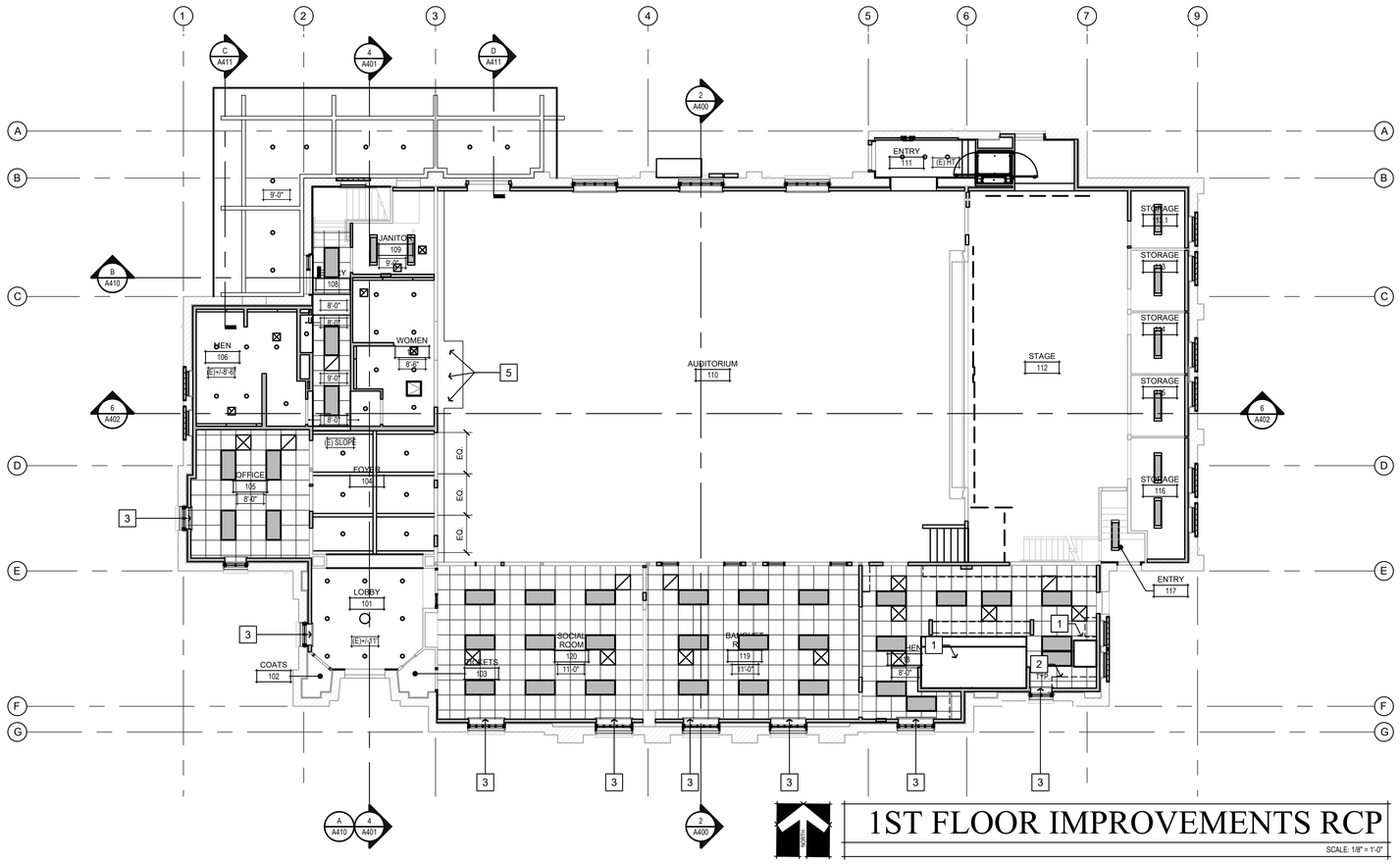


1ST FLOOR DEMOLITION RCP

SCALE: 1/8" = 1'-0"



1ST FLOOR IMPROVEMENTS RCP

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REMOVE ELECTRICAL SYSTEM, COMPLETE, U.N.O.
2. REMOVE MECHANICAL SYSTEM, COMPLETE, U.N.O.
3. REMOVE ALL CEILINGS, U.N.O.

DEMOLITION SHEET NOTES

ALL ITEMS ARE EXISTING UNLESS NOTED AS NEW OR (N)

- A — REMOVE GYP. CEILING
- B — REMOVE CELOTEX CEILING
- C — REMOVE STAGE CURTAIN
- D — REMOVE AND REINSTALL CHANDELIER
- E — CORBELS TO REMAIN

DEMOLITION PLAN LEGEND

- DEMO (E) HVAC EQUIPMENT
- DEMO (E) LIGHT FIXTURE
- (E) CEILING TO REMAIN

SHEET NOTES

ALL ITEMS ARE NEW, UNLESS NOTED AS (E) OR EXISTING

1. KITCHEN HOOD
2. UPPER CABINETS
3. MANUAL ROLLER SHADE - SEE DETAIL 2 / A910.
4. MOTORIZED ROLLER SHADE - SEE DETAIL 1 / A910.
5. EXISTING CORBELS

LEGEND

ALL ITEMS ARE NEW, UNLESS NOTED AS (E) OR EXISTING

- 5/8" GYPSUM BOARD CEILING SYSTEM
- 2 x 2 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM, SEE DETAIL 3/A902
- 2 x 4 RECESSED LED LIGHT FIXTURE
- 1 x 4 SUSPENDED LED LIGHT FIXTURE
- CAN LIGHT FIXTURE
- RELOCATED (E) CHANDELIER
- NEW FAN

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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FIRST FLOOR
REFLECTED CEILING
PLANS

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A231

Login Name: Kyle M
Plot Date: October 26, 2025 - 3:46 pm
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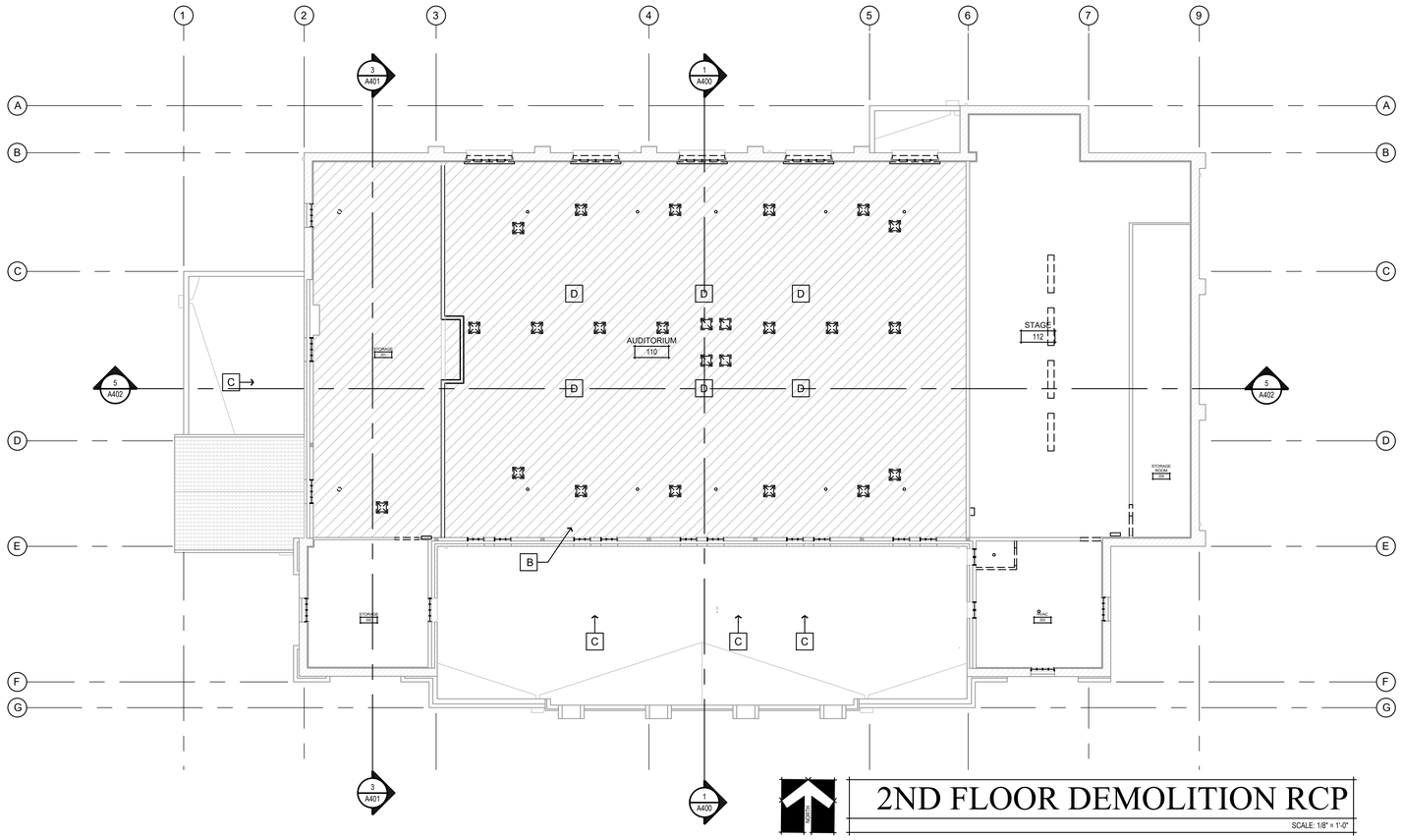
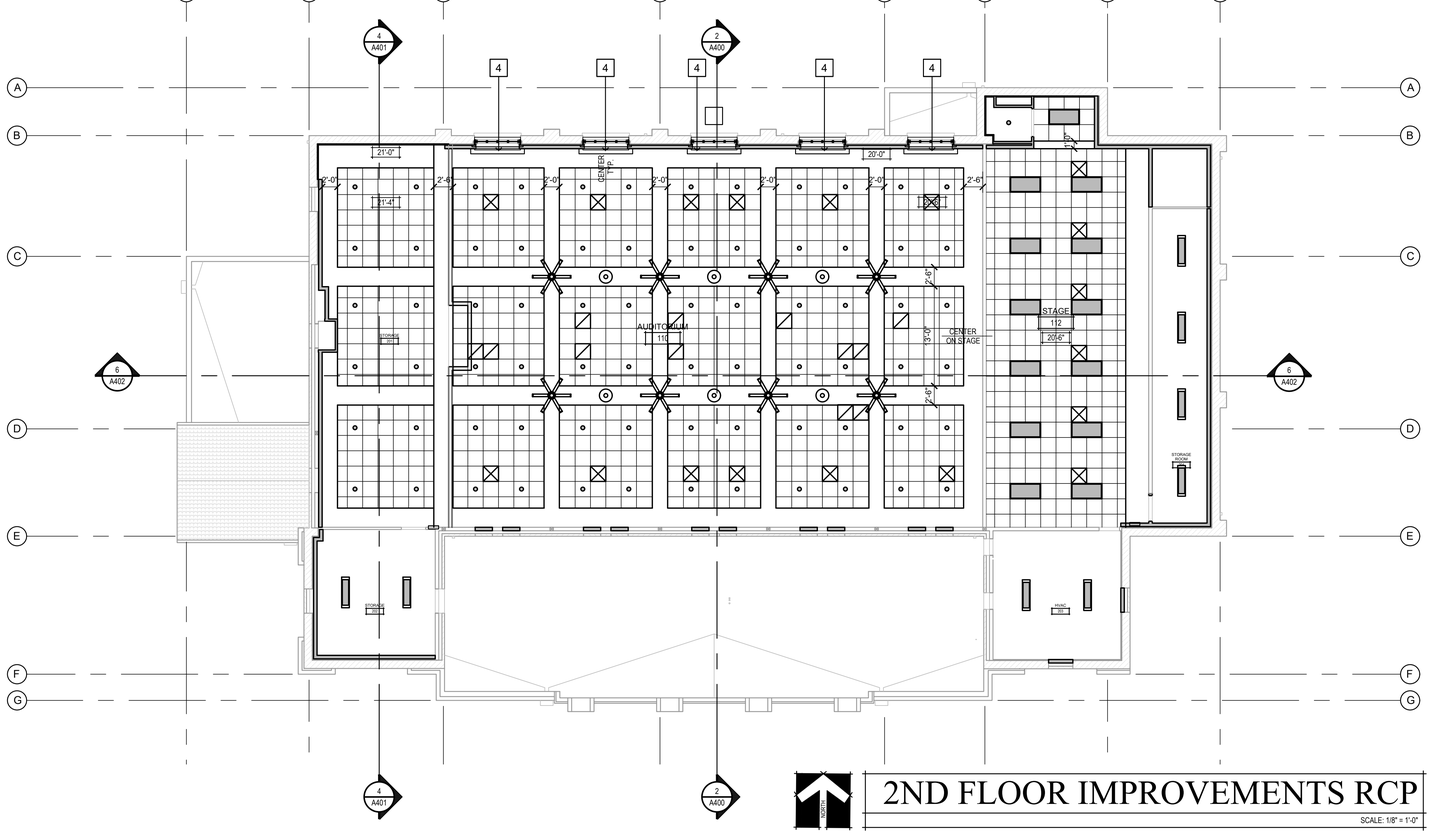


2ND FLOOR DEMOLITION RCP

SCALE: 1/8" = 1'-0"



2ND FLOOR IMPROVEMENTS RCP

SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. REMOVE ELECTRICAL SYSTEM, COMPLETE, U.N.O.
2. REMOVE MECHANICAL SYSTEM, COMPLETE, U.N.O.
3. REMOVE ALL CEILINGS, U.N.O.

DEMOLITION SHEET NOTES

ALL ITEMS ARE EXISTING UNLESS NOTED AS NEW OR (N)

- A — REMOVE GYP. CEILING
- B — REMOVE CELOTEX CEILING
- C — REMOVE STAGE CURTAIN
- D — REMOVE AND REINSTALL CHANDELIER

DEMOLITION PLAN LEGEND

- DEMO (E) HVAC EQUIPMENT
- DEMO (E) LIGHT FIXTURE
- (E) CEILING TO REMAIN

SHEET NOTES

ALL ITEMS ARE NEW, UNLESS NOTED AS (E) OR EXISTING

1. KITCHEN HOOD
2. UPPER CABINETS
3. MANUAL ROLLER SHADE - SEE DETAIL 2 / A910.
4. MOTORIZED ROLLER SHADE - SEE DETAIL 1 / A910.

LEGEND

ALL ITEMS ARE NEW, UNLESS NOTED AS (E) OR EXISTING

- 5/8" GYPSUM BOARD CEILING SYSTEM
- 2 x 2 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
- 2 x 4 RECESSED LED LIGHT FIXTURE
- 1 x 4 SUSPENDED LED LIGHT FIXTURE
- CAN LIGHT FIXTURE
- RELOCATED (E) CHANDELIER
- NEW FAN

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT
KYLE MATTHEWS
C 27504
REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SECOND FLOOR
REFLECTED CEILING
PLANS

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A232

Login Name: ValerieS
Plot Date: October 21, 2025 - 12:18 pm
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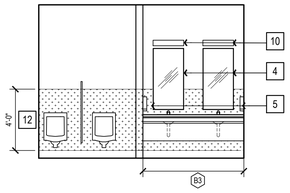

1 106 MEN - NORTH
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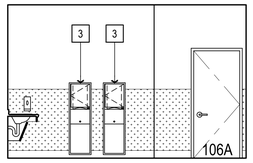

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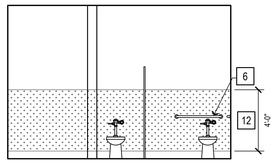

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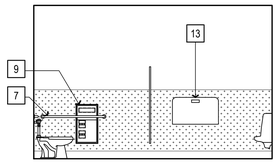

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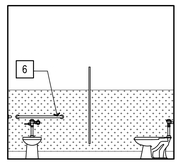
1/4" = 1'-0"



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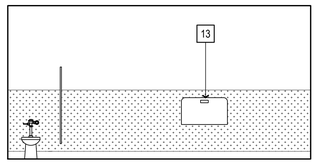

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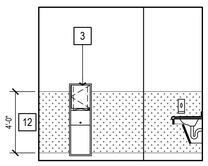
1/4" = 1'-0"



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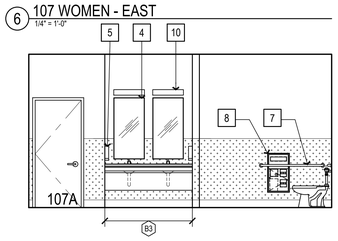
1/4" = 1'-0"



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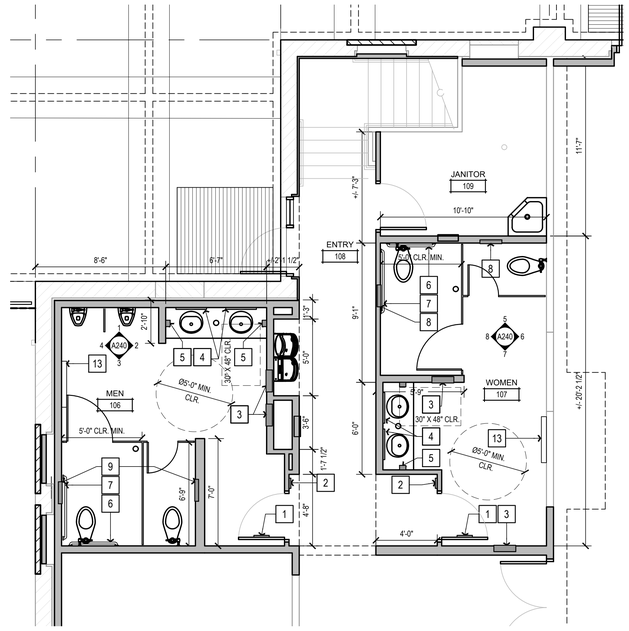
1/4" = 1'-0"



ENLARGED RESTROOM FLOOR PLAN

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

SHEET NOTES

ALL ITEMS ARE NEW, UNLESS NOTED AS (E) OR EXISTING

1. ACCESSIBLE TOILET ROOM DOOR SIGN PER A/A960
2. ACCESSIBLE TOILET ROOM SIGN PER B/A960
3. RECESS PAPER TOWEL DISPENSER/TRASH RECEPTACLE
4. MIRROR 24"W X 48"T
5. SURFACE MOUNTED SOAP DISPENSER
6. 42" GRAB BAR
7. 48" GRAB BAR
8. RECESSED SANITARY NAPKIN DISPOSAL & TOILET TISSUE DISPENSER
9. RECESSED SEAT-COVER DISPENSER & TOILET TISSUE DISPENSER
10. VANITY LIGHT
11. FIRE EXTINGUISHER CABINET
12. FIBER REINFORCED LAMINATE
13. BABY CHANGING STATION

LEGEND

- (E) WALL
- (N) WALL
- (N) DOOR & FRAME
- DOOR TO REMAIN
- (N) PLUMBING FIXTURE

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT KYLE MATTHEWS C 27504 REN. 10/31/25 STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ENLARGED RESTROOM FLOOR PLAN & INTERIOR ELEVATIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

A240

Login Name: KleinP
Plot Date: February 13, 2025 - 9:11 am
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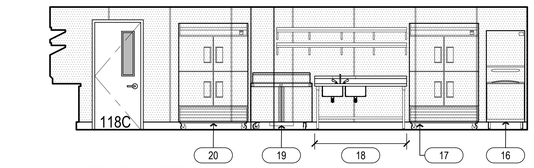

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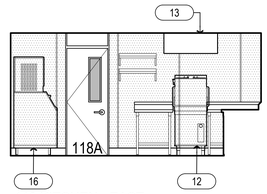
1/4" = 1'-0"



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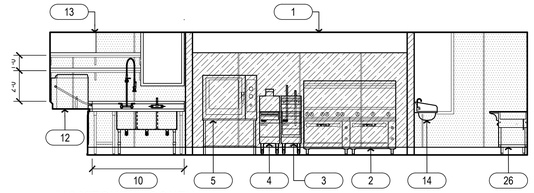
1/4" = 1'-0"



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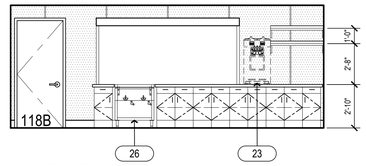

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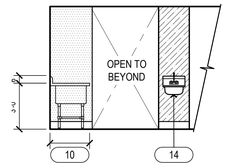
1/4" = 1'-0"



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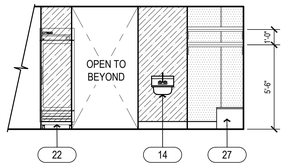

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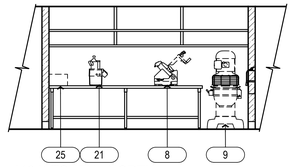

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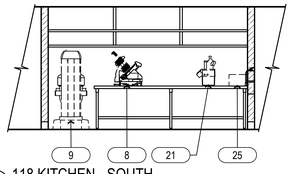
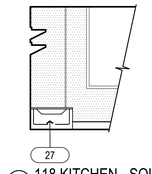


16 118 KITCHEN - SOUTH
1/4" = 1'-0"



17 118 KITCHEN - SOUTH
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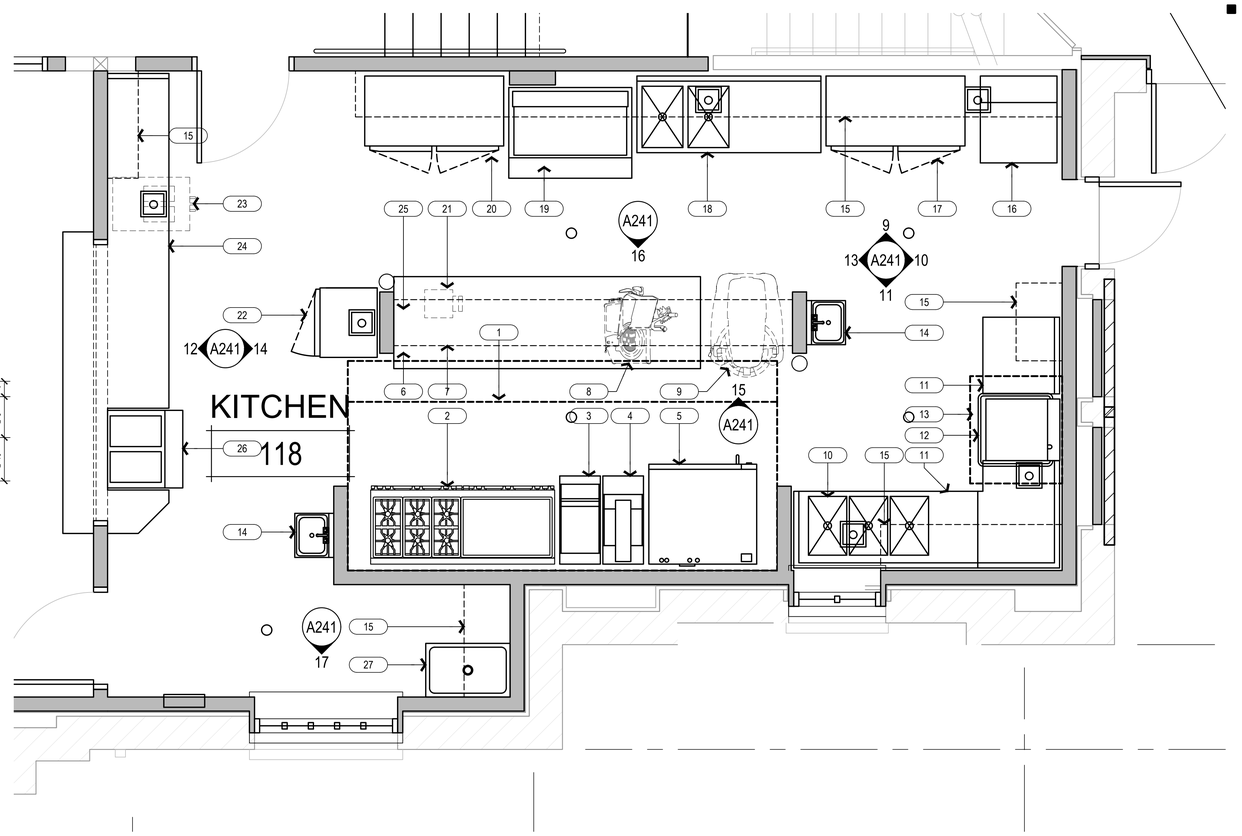

ENLARGED KITCHEN FLOOR PLAN

SCALE: 1/2" = 1'-0"

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES	UTILITY REQUIREMENTS			
						ELECTRIC	GAS	WATER	WASTE
1	1	HOOD, 12' LONG WITH INTEGRAL ANSUL SYSTEM	SEE MECHANICAL DRAWINGS	SEE MECHANICAL DRAWINGS		●			
2	1	RANGE (E)	WOLF	C72SS-6B36GN	1	●	●		
3	1	FRYER	PITCO	SE148	3	●			
4	1	FRY DUMP STATION	PITCO	BNB-SE14	3	●			
5	1	COMBI OVEN	VULCAN	ABC7G-NAT	1	●	●		
6	1	10' x 3' STAINLESS STEEL TABLE (SHELF BELOW)	CUSTOM FABRICATED	SEE ELEVATIONS	3				
7	1	13' x 18" STAINLESS STEEL SHELVES	CUSTOM FABRICATED	SEE ELEVATIONS	3				
8	1	MEAT SLICER	HOBART	HS9	2	●			
9	1	STAND MIXER	HOBART	LEGACY HL600 MIXER	2	●			
10	1	3 COMPARTMENT SINK	ADVANCE TABCO	FC-3-2424				●	●
11	2	30" DEEP STAINLESS STEEL COUNTER	CUSTOM FABRICATED	SEE ELEVATIONS					
12	1	DISHWASHER	HOBART	CDL-1	1	●		●	●
13	1	TYPE II HOOD	SEE MECHANICAL DRAWINGS	SEE MECHANICAL DRAWINGS		●			
14	2	HAND WASHING SINK	EAGLE	HSAN-10-F-LRS				●	●
15	5	18" DEEP STAINLESS STEEL SHELVES, WALL MOUNTED	CUSTOM FABRICATED	SEE ELEVATIONS	3				
16	1	ICE MAKER W/ BIN (NUGGET)	MANITOWOC	RNF-1100A/D570	3	●		●	●
17	1	FREEZER	TRUE	TS-49F-4-HC	3	●			
18	1	PREP SINK	CUSTOM FABRICATED	SEE ELEVATIONS				●	●
19	1	DELI STATION	DELFIELD	4448NP-18M	3	●			
20	1	REFRIGERATOR	TRUE	TS-49-A-HC	3	●			
21	1	FOOD PROCESSOR	ROBOT COUPE	R602	2	●			
22	1	BEVERAGE REFRIGERATOR	TRUE	T-19G-HC~FGD01	3	●			
23	1	ICE CREAM MACHINE	SPACEMAN	6235-C	2	●			●
24	1	STAINLESS STEEL COUNTERTOP	CUSTOM FABRICATED	SEE ELEVATIONS					
25	1	WARMING STATION	AVANTCO	177W50	2	●			
26	1	HOT FOOD SERVING COUNTER	DUKE	E302SW	1	●			
27	1	JANITOR SINK	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS				●	●

NOTES:
1. O.F.C.I.
2. N.I.C.
3. BASE BID: PROVIDE ALL CONNECTIONS FOR FUTURE O.F.C.I. EQUIPMENT INSTALLATION.
ADDITIVE ALTERNATE #1: FURNISH AND INSTALL

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT
KYLE MATTHEWS
C 27504
REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ENLARGED KITCHEN FLOOR PLAN & INTERIOR ELEVATIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

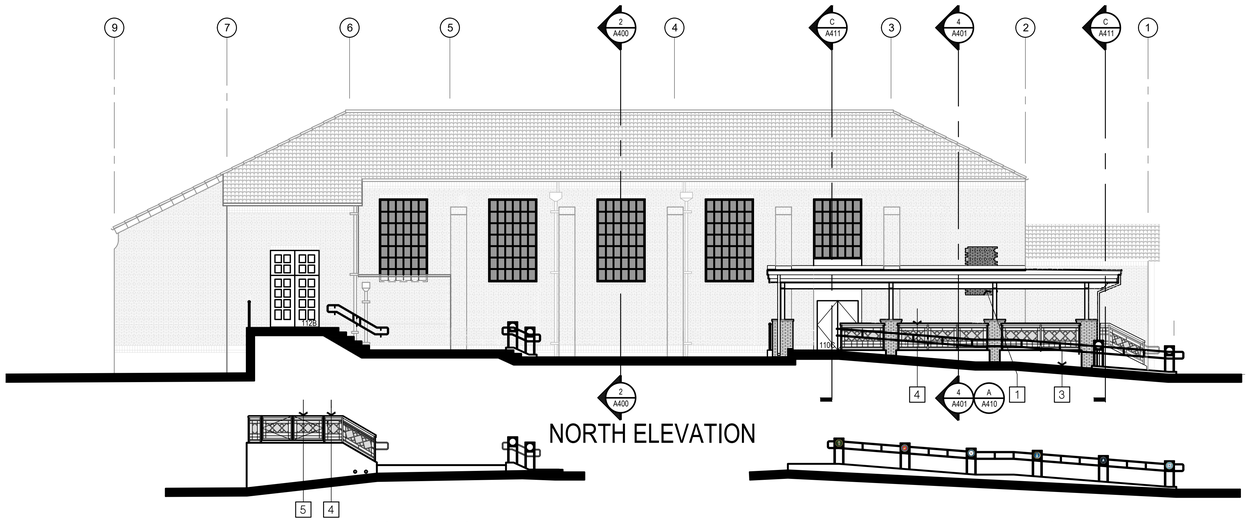
SHEET No.

A241

Login Name: Kyle M
Plot Date: October 28, 2025 - 3:57 pm
File Name: N:\Projects\2000s\Oak\2021\21-6497 Tehama Co. Corning Vets Hall\Drawings\CVH ENLG FLR.dwg
PlotBy: N:\CVH161 1-CAL_Title Block X-CVH.ctb

SHEET NOTES

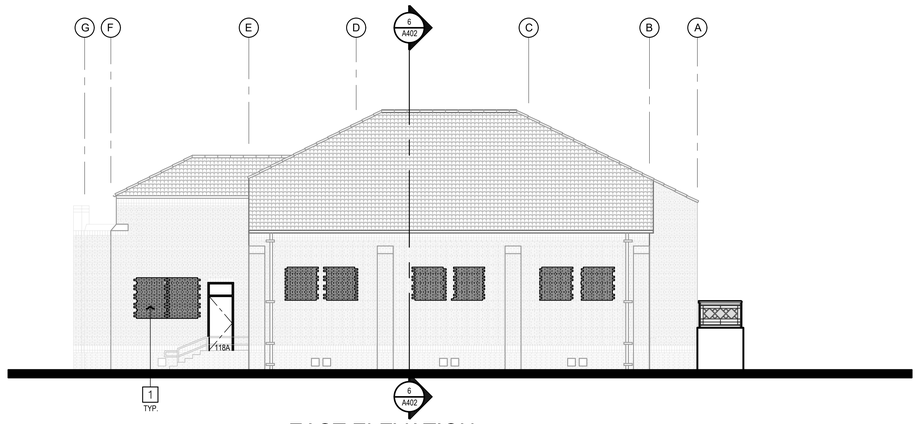
1. INFILL (E) WINDOW
2. INFILL PORTION OF (E) DOOR
3. ACCESSIBLE RAMP
4. GUARDRAIL
5. GATE, 8'-0" WIDE



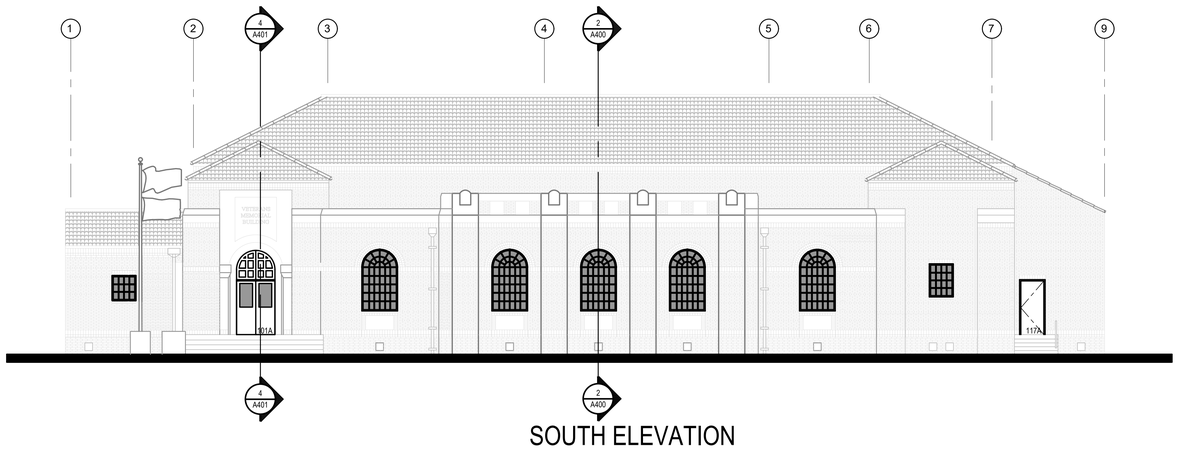
NORTH ELEVATION

PARTIAL NORTH ELEVATION

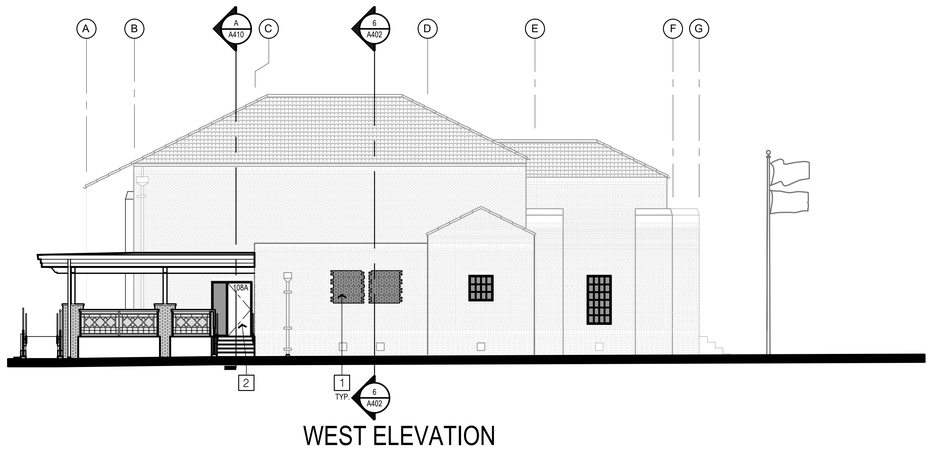
PARTIAL NORTH ELEVATION



EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT
KYLE MATTSON
C 27504
REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

EXTERIOR ELEVATIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NGG
Date Issued	10/15/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

A300

Login Name: Kyle.M
Plot Date: October 26, 2025 - 2:54 pm
File Name: N:\Projects\6000\Arch\2021\6497 Tehama Co. Corning Vets Hall\Drawings\CAH-exterior elevations.dwg
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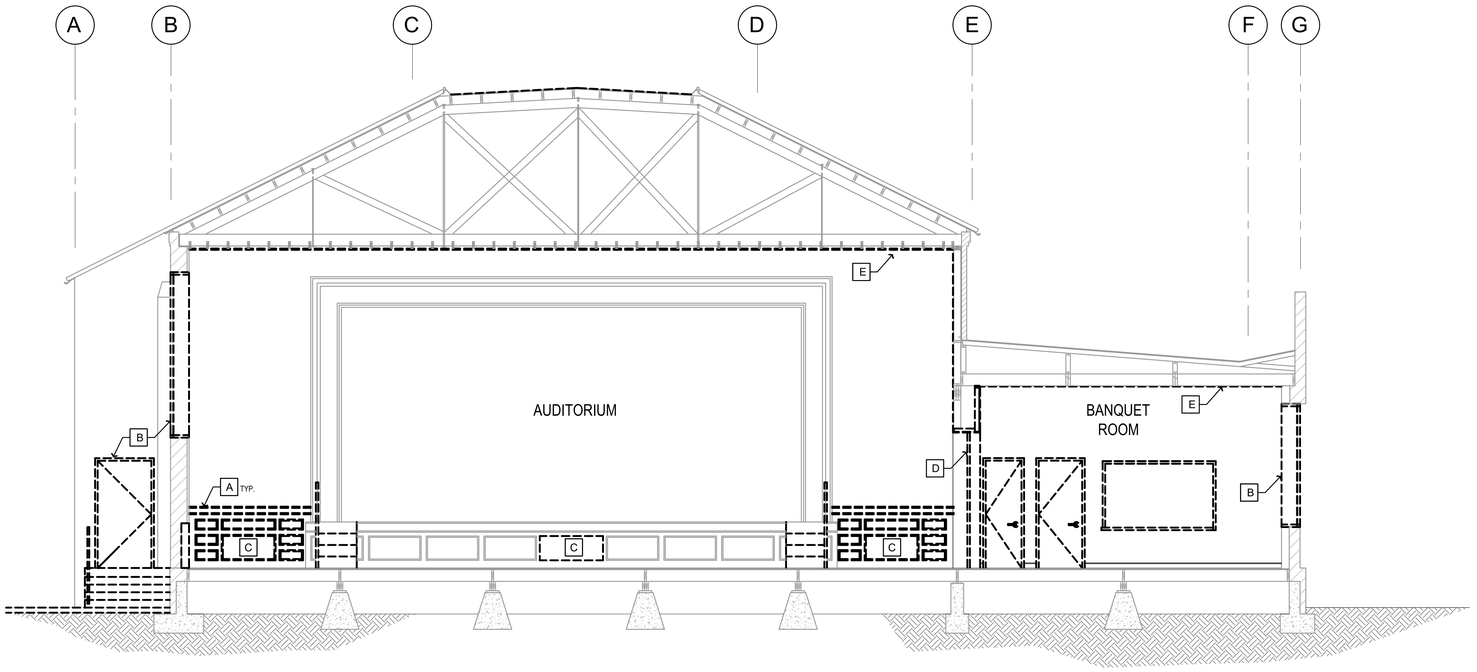
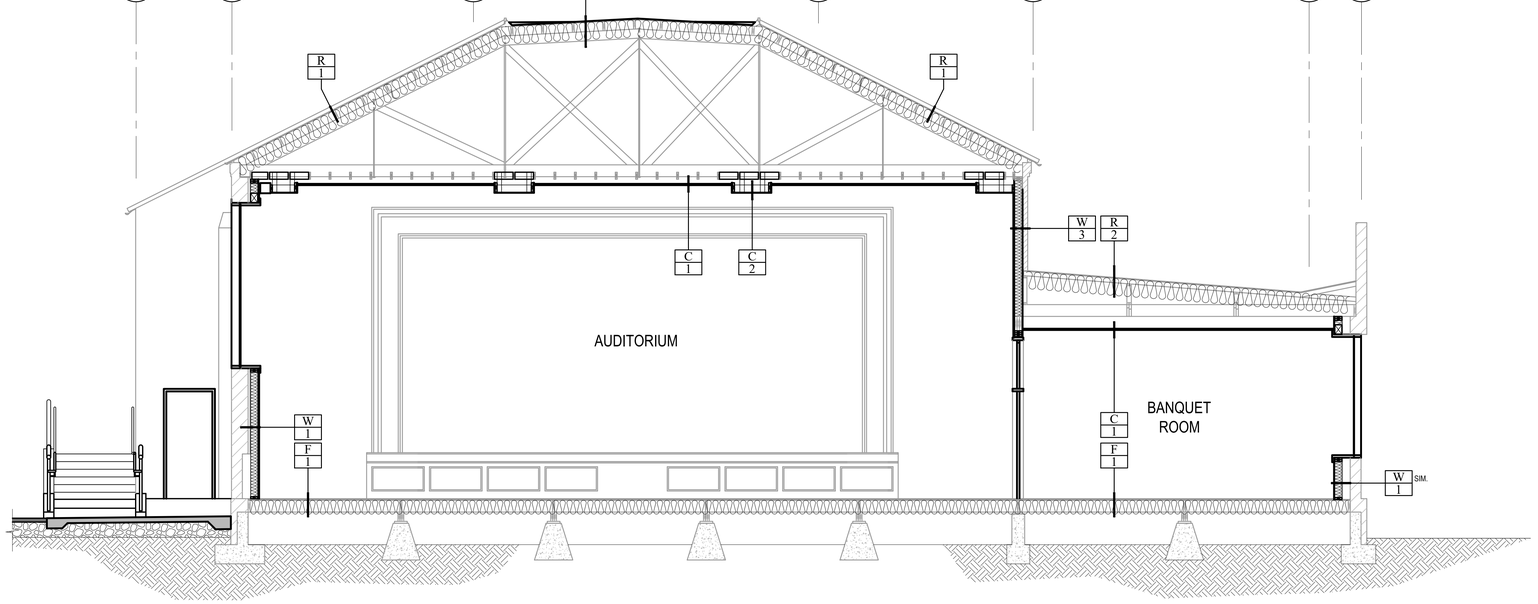


1 DEMOLITION SECTION

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

0' 6" 2' 4' 8' 16'



2 IMPROVEMENTS SECTION

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

0' 6" 2' 4' 8' 16'

DEMO SHEET NOTES

- A REMOVE ALL INTERIOR FINISHES
- B REMOVE ALL EXTERIOR DOORS AND WINDOWS
- C REMOVE ALL MECHANICAL SYSTEMS
- D REMOVE FOLDING PARTITION
- E REMOVE CEILING
- F REMOVE STAIRS AND HANDRAILS, COMPLETE

IMPROVEMENTS SHEET NOTES

- 1 NEW EXTERIOR DOORS AND WINDOWS
- 2 NEW GLASS DOORS
- 3 NEW CEILING

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LICENSED ARCHITECT
KYLE MATTHEW PERRY
C 27504
REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

BUILDING SECTIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

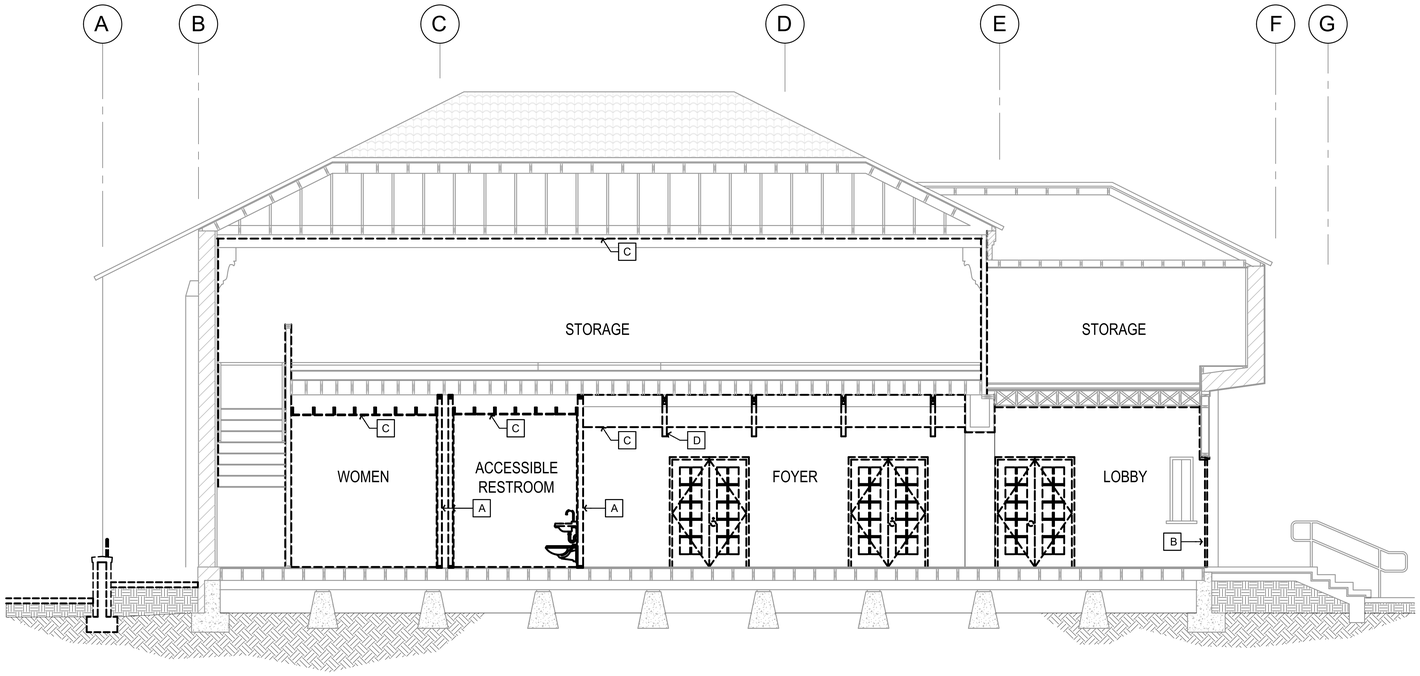
Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

A400

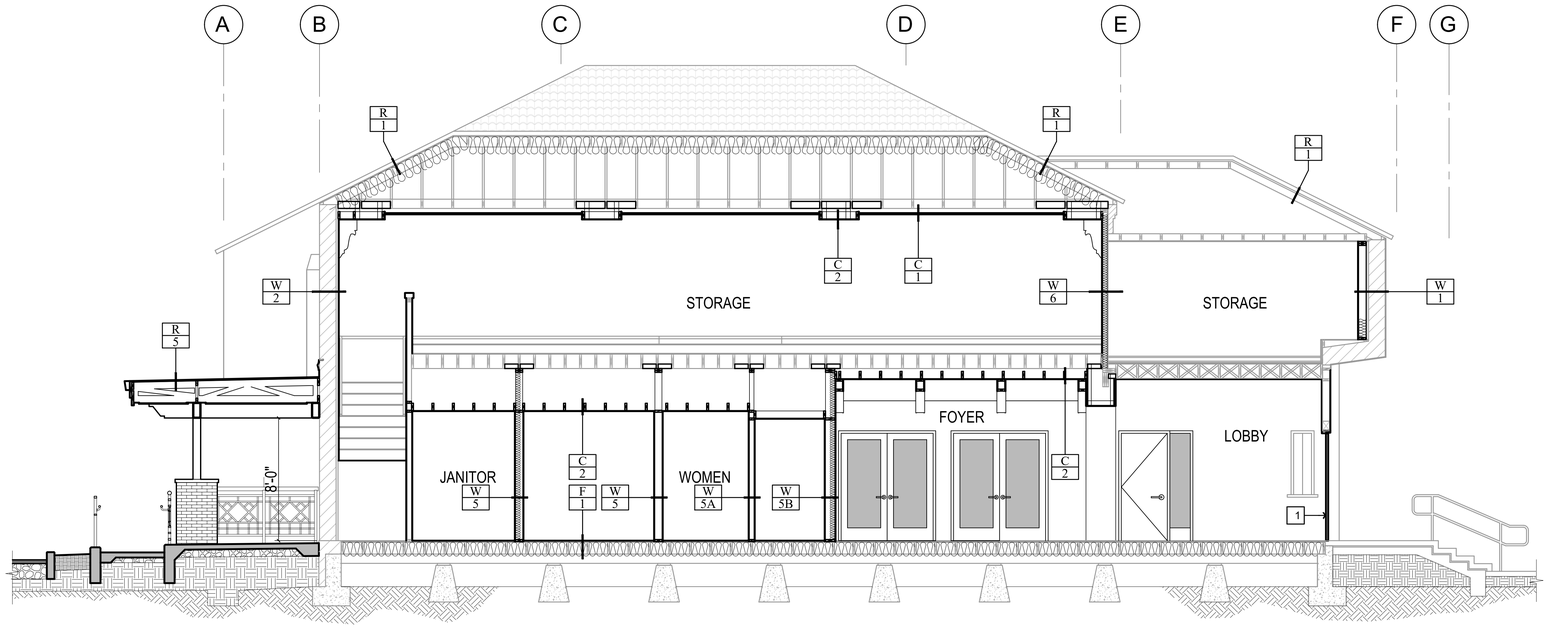
Login Name: Kyle M
Plot Date: October 26, 2025 - 4:56 pm
File Name: N:\Projects\6000\Arch\2021\21-6497 Tehama Co. Corning Vets Hall\Drawings\CHH - SECTIONS.dwg
XREFS: x:\CHH_Title Block.rvt x:\CHH-M1.rvt x:\CHH-E2.rvt x:\CHH-E1.rvt x:\CHH-P2.rvt x:\CHH-P1.rvt x:\CHH-R.rvt x:\CHH-mep2.rvt x:\CHH-mezzanine fr r.rvt Floor Plan



3 DEMOLITION SECTION

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

0' 6" 2' 4' 8' 16'



4 IMPROVEMENTS SECTION

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

0' 6" 2' 4' 8' 16'

DEMO SHEET NOTES

- A — DEMO (E) WALL
- B — REPLACE EXTERIOR DOORS AND WINDOWS
- C — DEMO (E) CEILING
- D — DEMO (E) JOIST

IMPROVEMENTS SHEET NOTES

- 1 — NEW EXTERIOR DOORS AND WINDOWS
- 2 — NEW DOOR
- 3 — NEW WALL
- 4 — NEW CEILING
- 5 — NEW PARTITION

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TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

BUILDING SECTIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

A401

Login Name: kyle.m
Plot Date: October 28, 2025 - 5:27 pm
File Name: N:\Projects\6000s\6000s\21-6497 Tehama Co. Corning Vets Hall\Drawings\CVH - SECTIONS.dwg
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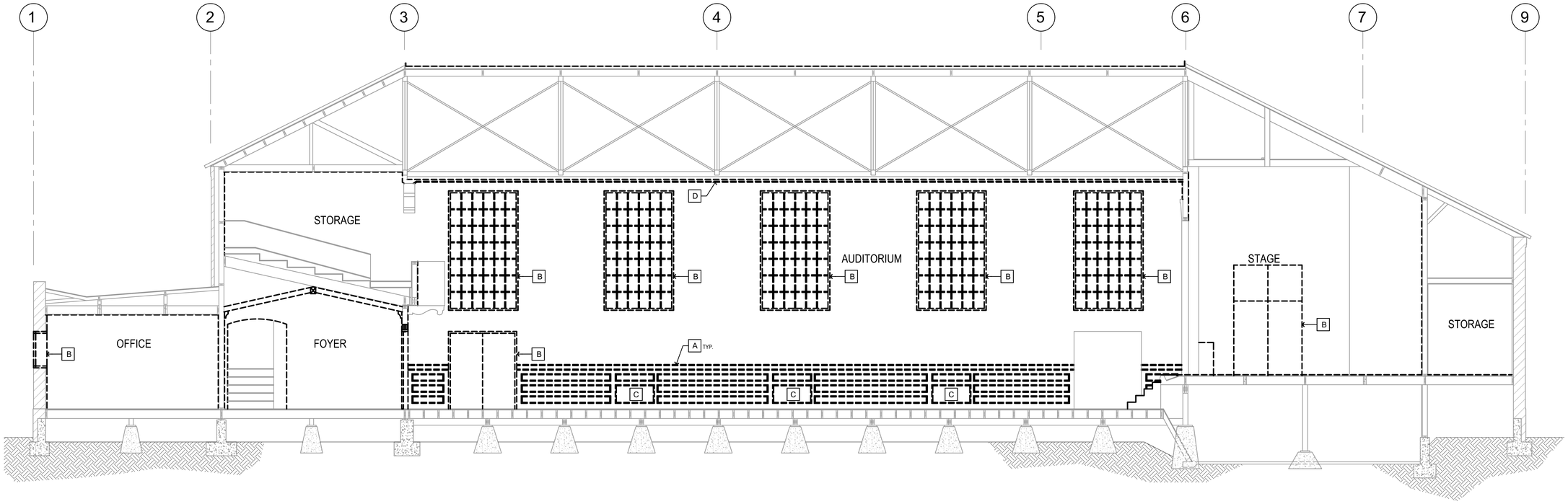

5 DEMOLITION SECTION

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

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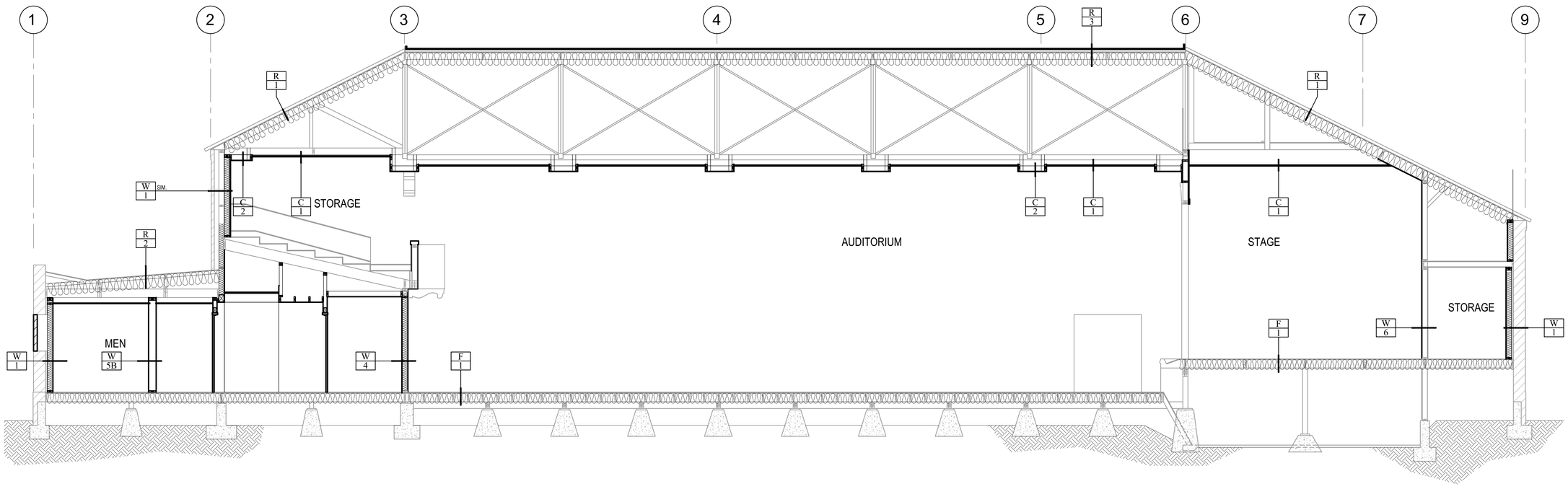

6 IMPROVEMENTS SECTION

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

0' 6" 2' 4' 8' 16'

DEMO SHEET NOTES	
A	REMOVE AND REPLACE ALL INTERIOR FINISHES
B	REPLACE EXTERIOR DOORS AND WINDOWS
C	REPLACE MECHANICAL EQUIPMENT
D	DEMO (E) CEILING

IMPROVEMENTS SHEET NOTES	
1	NEW EXTERIOR DOORS AND WINDOWS
2	NEW CEILING

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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

BUILDING SECTIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

A402

Login Name: KeverP
Plot Date: February 13, 2025 - 9:17 am
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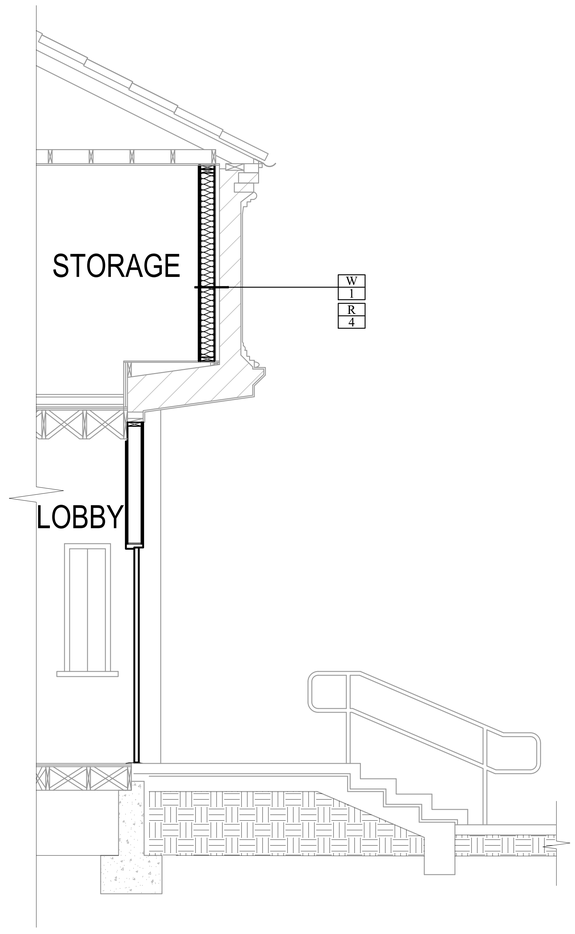
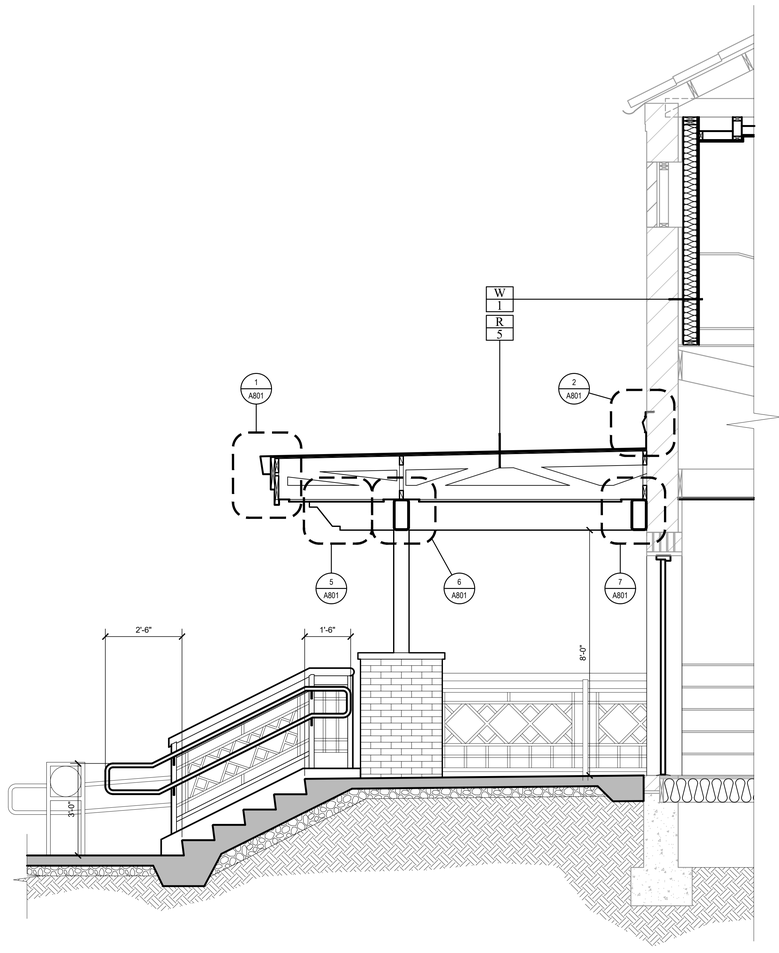


A WALL SECTION

SCALE: 1/2" = 1'-0"



B WALL SECTION

SCALE: 1/2" = 1'-0"

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STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ENLARGED
SECTIONS

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/2" = 1'-0"
Project No.	21-6497

SHEET No.

A410

Login Name: Kyle.M
Plot Date: October 26, 2025 - 5:26 pm
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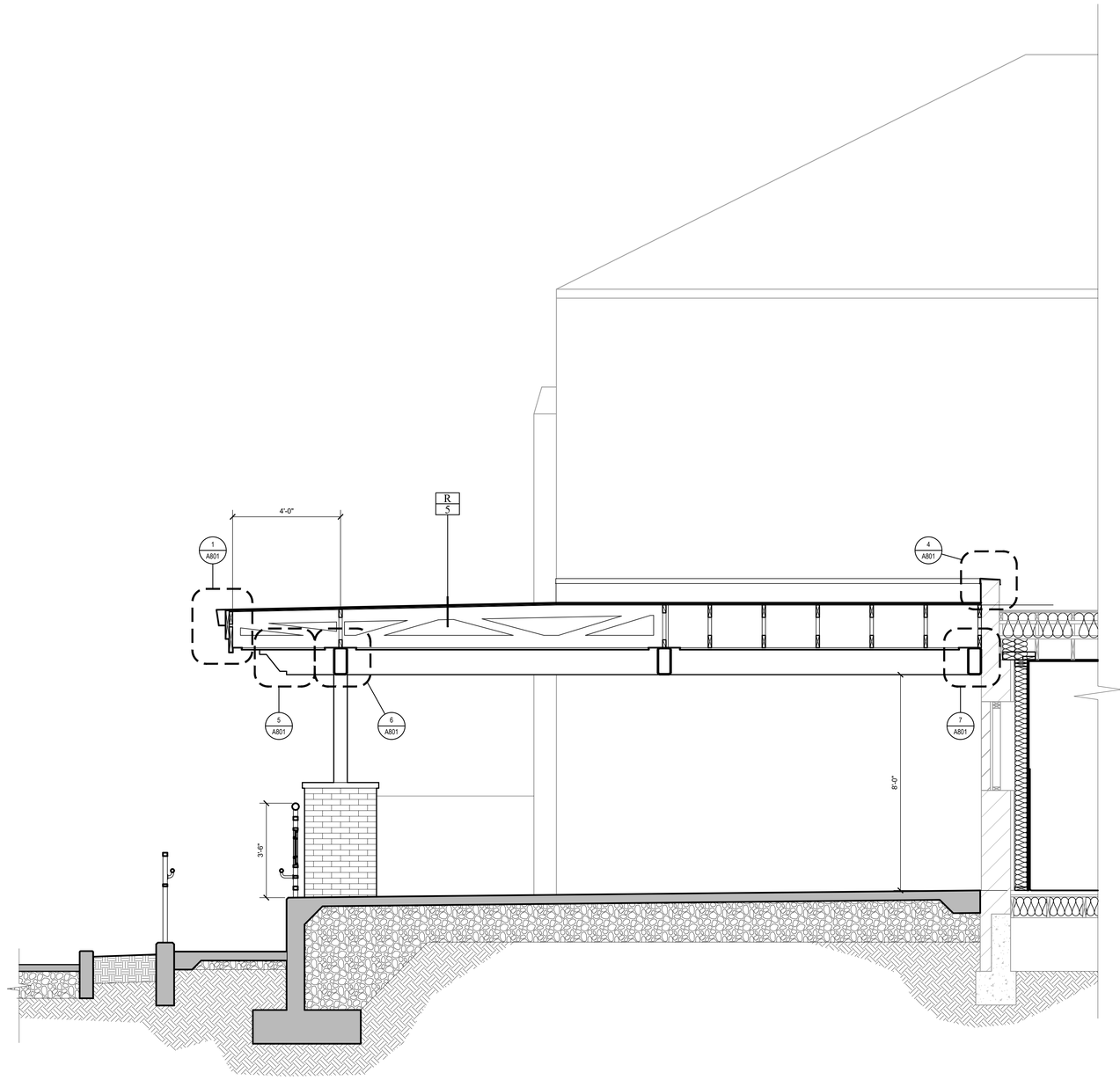
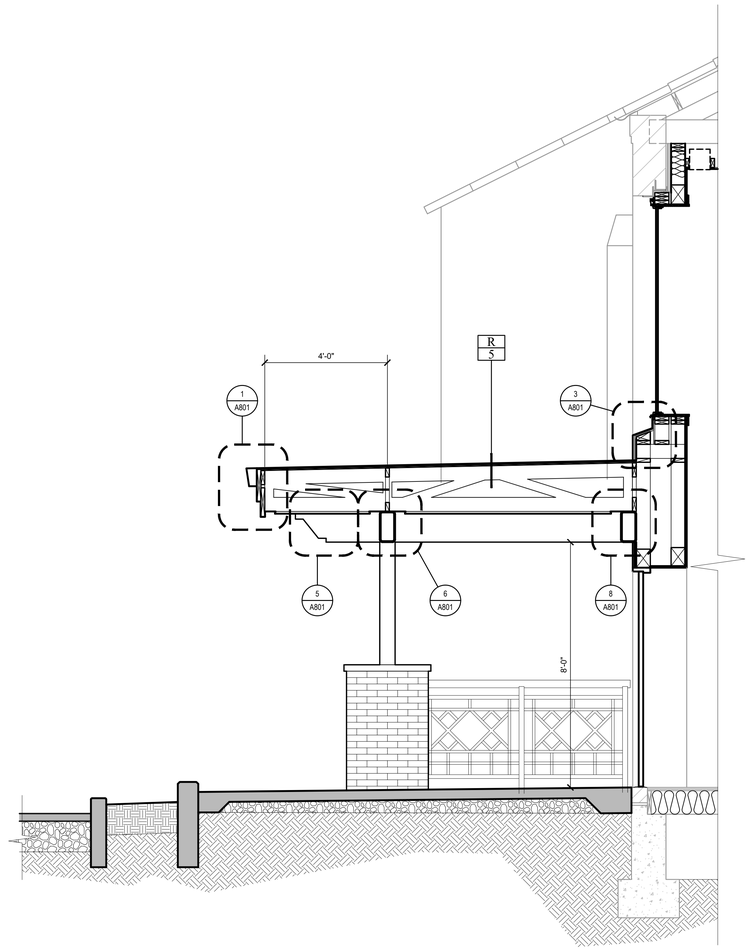


C WALL SECTION

SCALE: 1/2" = 1'-0"



D WALL SECTION

SCALE: 1/2" = 1'-0"

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STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ENLARGED
SECTIONS

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/2" = 1'-0"
Project No.	21-6497

SHEET No.

A411

Login Name: Kyle.M
Plot Date: October 26, 2025 - 5:26 pm
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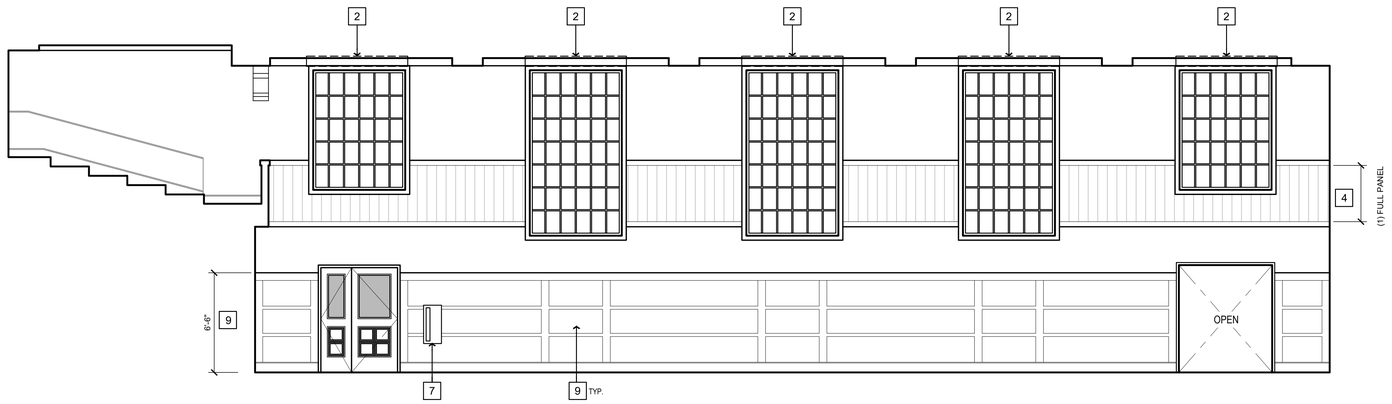
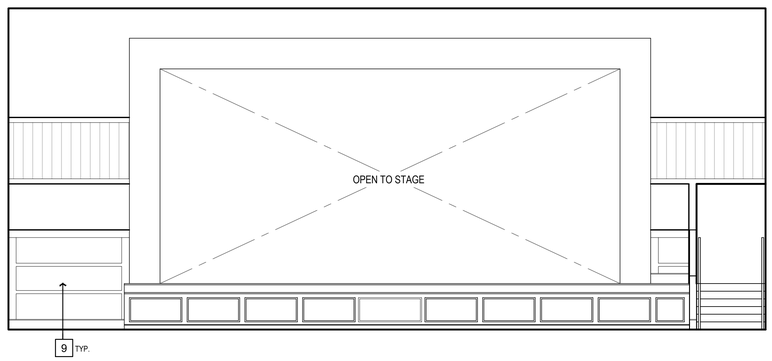
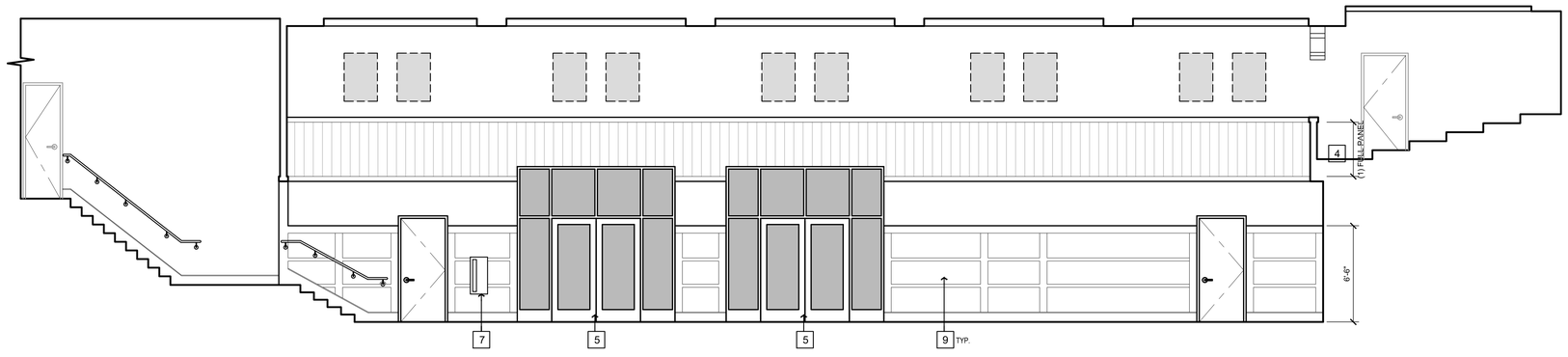


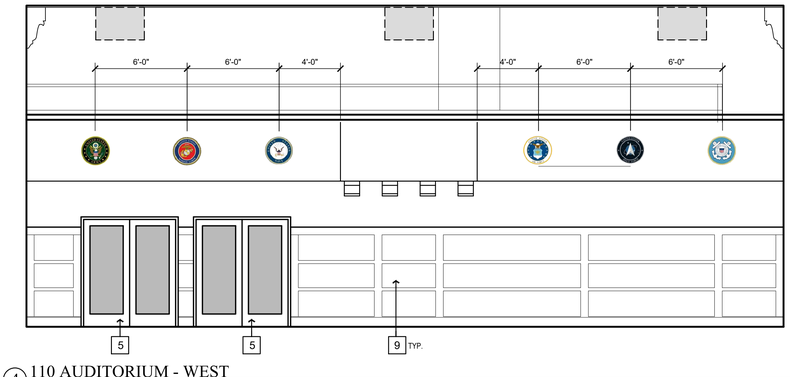
1 110 AUDITORIUM - NORTH
1/4" = 1'-0"



2 110 AUDITORIUM - EAST
1/4" = 1'-0"



3 110 AUDITORIUM - SOUTH
1/4" = 1'-0"



4 110 AUDITORIUM - WEST
1/4" = 1'-0"

Login Name: KevinP
Plot Date: February 13, 2025 - 9:21 am
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XREFS: - ACHL_Title Block_A.DWG | - ACHM1.1 - ACHM.dwg | - ACHM2 | - ACHM2 | - ACHM.dwg | - ACHM.ttt | - ACHM.dwg | - ACHM.ttt | - ACHM.dwg | - ACH-mezzanine.fr

KEYNOTES

1	WALL PROTECTION. SEE DETAIL 7 / A910.
2	MOTORIZED ROLLER SHADE. SEE DETAIL 1 / A910.
3	MANUAL ROLLER SHADE. SEE DETAIL 2 / A910.
4	ACOUSTICAL WALL PANEL. SEE DETAIL 8 / A910.
5	NEW DOOR SYSTEM W/ GLASS GL-1 (SHOWN SHADED).
6	EXISTING BI-FOLD DOOR TO REMAIN PAINT TO MATCH DOOR & FRAME.
7	RECESSED FIRE EXTINGUISHER CABINET. SEE DETAIL 9 / A910.
8	PAINT (E) BUILT-IN BOOKCASE, P-2 TO MATCH ADJACENT DOOR FRAMES.
9	DECORATIVE WOOD TRIM AND MOLDING.

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STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

INTERIOR ELEVATIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

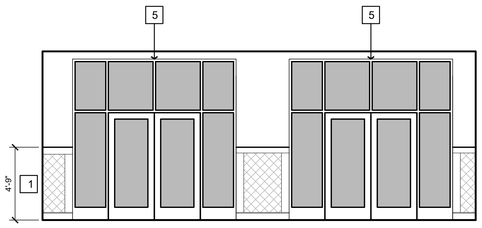
REVISIONS

Sym.	Description	Date

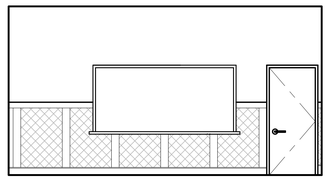
Drawn By	KP
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

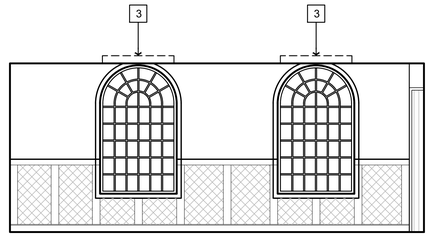
A500



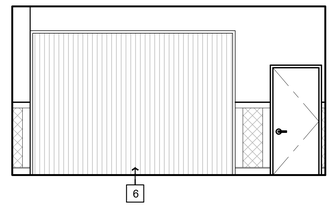
5 119 BANQUET ROOM - NORTH
1/4" = 1'-0"



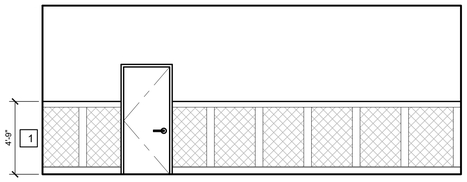
6 119 BANQUET ROOM - EAST
1/4" = 1'-0"



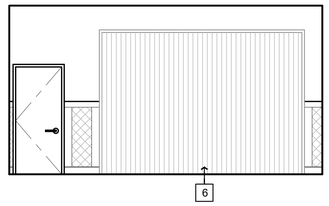
7 119 BANQUET ROOM - SOUTH
1/4" = 1'-0"



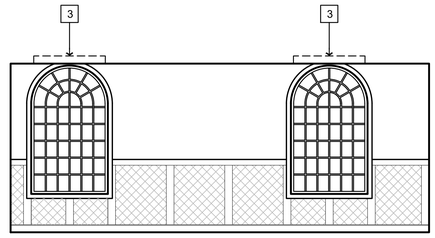
8 119 BANQUET ROOM - WEST
1/4" = 1'-0"



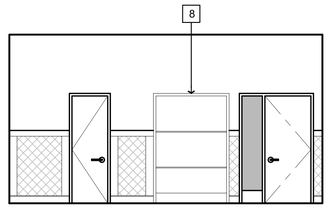
9 120 SOCIAL ROOM - NORTH
1/4" = 1'-0"



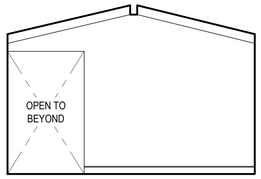
10 120 SOCIAL ROOM - EAST
1/4" = 1'-0"

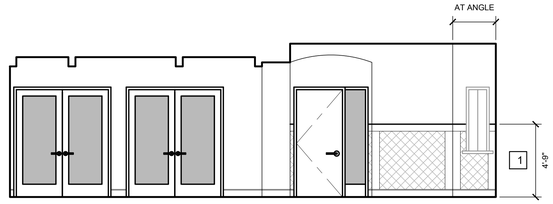


11 120 SOCIAL ROOM - SOUTH
1/4" = 1'-0"



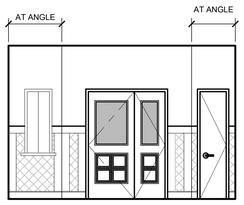
12 120 SOCIAL ROOM - WEST
1/4" = 1'-0"



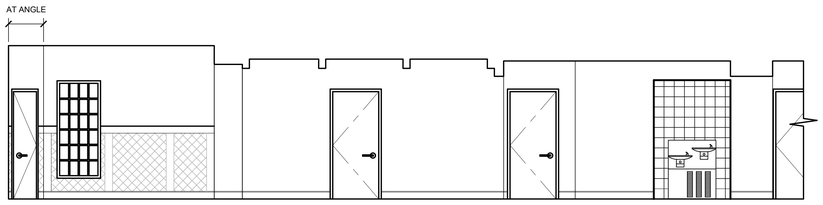


13 104 FOYER - NORTH
1/4" = 1'-0"

14 104 FOYER / 101 LOBBY - EAST
1/4" = 1'-0"



15 101 LOBBY - SOUTH
1/4" = 1'-0"



16 101 LOBBY / 104 FOYER - WEST
1/4" = 1'-0"

KEYNOTES

1. WALL PROTECTION. SEE DETAIL 7 / A910.
2. MOTORIZED ROLLER SHADE. SEE DETAIL 1 / A910.
3. MANUAL ROLLER SHADE. SEE DETAIL 2 / A910.
4. ACOUSTICAL WALL PANEL. SEE DETAIL 8 / A910.
5. NEW DOOR SYSTEM W/ GLASS GL-1 (SHOWN SHADED).
6. EXISTING BI-FOLD DOOR TO REMAIN PAINT TO MATCH DOOR & FRAME.
7. RECESSED FIRE EXTINGUISHER CABINET. SEE DETAIL 3 / A901.
8. PAINT (E) BUILT-IN BOOKCASE, P-2 TO MATCH ADJACENT DOOR FRAMES.
9. WOOD PANELING SYSTEM, SEE DETAIL 10/A910

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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

INTERIOR ELEVATIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

A501

Login Name: KeimP
Plot Date: February 13, 2025 - 9:22 am
File Name: N:\Projects\6000\Cad\21216497 Tehama Co. Corning Vets Hall\Drawings\CH1 - INT ELEV.dwg
RSES: X:\CH1_Title Block\X:\CH1-R1\X:\CH1-R2\X:\CH1-R3\X:\CH1-R4\X:\CH1-R5\X:\CH1-mezzanine fr

FINISH SCHEDULE

NUMBER	NAME	FLOORING	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	MISC.	CASEWORK UPPER CABINET	CASEWORK BASE CABINET / FULL HEIGHT CABINET	CASEWORK COUNTER TOP	DOOR FINISH	DOOR FRAME FINISH	CEILING FINISH	SOFFIT FINISH	WINDOW COVERING	WOOD TRIM/ MOULDING	ROOM FINISH REMARKS
FIRST FLOOR																		
101	LOBBY	WD-1	B-1	P-3	P-4, WP-1	P-4, WP-1	P-4, WP-1	-	-	-	-	ST	ST	P-1	P-3	-	P-2	4
102	COATS	WD-1	B-1	P-1	P-1	P-1	P-1	-	-	-	-	PL-1	P-2	P-1	-	-	-	-
103	TICKETS	WD-1	B-1	P-1	P-1	P-1	P-1	-	-	-	-	PL-1	P-2	P-1	-	-	P-2	-
104	FOYER	WD-1	B-1	P-1	P-4	P-3	P-1	-	-	-	-	-	-	P-1	P-1	-	-	7
105	OFFICE	VCT-1	RB-1	P-4	P-4	P-4	P-3	-	-	-	-	PL-1	P-2	ACT-2	-	WS-1	-	-
106	MEN	SV-1	SV-1	P-3, FRL-1	P-3, FRL-1	P-3, FRL-1	P-3, FRL-1	PRT-1	-	PL-1	SSM-1	PL-1	P-2	P-1	-	-	-	1, 2, 4
107	WOMEN	SV-1	SV-1	P-3, FRL-1	P-3, FRL-1	P-3, FRL-1	P-3, FRL-1	PRT-1	-	PL-1	SSM-1	PL-1	P-2	P-1	-	-	-	1, 2, 4
108	ENTRY	WD-1, FT-1, RF-1	B-1	P-1	P-1	P-1	P-1, WT-1	CG-1	-	-	-	P-2	P-2	ACT-1	P-1	-	-	3, 5
109	JANITOR	SV-1	SV-1	P-1, FRP-1	P-1, FRP-1	P-1, FRP-1	P-1, FRP-1	-	-	-	-	PL-1	P-2	P-1	-	-	-	1, 2
110	AUDITORIUM	WD-1	B-1	P-1, AWP-1	P-1, 2, AWP-1	P-1, AWP-1	P-1	-	-	-	-	PL-1, P-2, GL-1	P-2	ACT-2	P-1	WS-1	P-2, 1	3, 4, 5
111	ENTRY	WD-1	B-1	P-1	P-1	P-1	P-1	CG-1	-	-	-	P-2	P-2	P-1	P-1	-	-	-
112	STAGE	VCT-1, RF-1	P-6	P-6	P-6	P-6	P-2	ST-1	-	-	-	P-7	P-7	ACT-3	P-6	-	-	5
113.1	STORAGE	ETR	B-1	P-1	P-1	P-1	P-1	-	-	-	-	P-7	P-7	P-1	-	-	-	6
113	STORAGE	ETR	B-1	P-1	P-1	P-1	P-1	-	-	-	-	P-7	P-7	P-1	-	-	-	6
114	STORAGE	ETR	B-1	P-1	P-1	P-1	P-1	-	-	-	-	P-7	P-7	P-1	-	-	-	6
115	STORAGE	ETR	B-1	P-1	P-1	P-1	P-1	-	-	-	-	P-7	P-7	P-1	-	-	-	6
116	STORAGE	ETR	B-1	P-1	P-1	P-1	P-1	-	-	-	-	P-7	P-7	P-1	-	-	-	6
117	ENTRY	WOM-1, RF-1	B-1	P-1	P-1	P-1	P-1	-	-	-	-	P-2	P-2	P-1	-	-	-	-
118	KITCHEN	SV-2	SV-2	FRP-2	FRP-2	FRP-2 / SS-1	FRP-2	-	PL-1	PL-1	SS	P-2, PL-1	P-2	ACT-4	-	WS-1	-	2, 4, 5
119	BANQUET ROOM	WD-1	B-1	P-1, WP-1	P-1, WP-1	P-5, WP-1	P-1, WP-1	-	-	-	SS	PL-1, GL-1	P-2	ACT-2	-	WS-1	P-2	4, 5
120	SOCIAL ROOM	WD-1	B-1	P-1, WP-1	P-1, WP-1	P-5, WP-1	P-1, WP-1	-	-	P-2	-	PL-1	P-2	ACT-2	-	WS-1	P-2	4, 5
SECOND FLOOR																		
201	STORAGE	ETR	B-1	P-1	P-1	P-1	P-1	-	-	-	-	-	-	ACT-2	P-1	-	P-2	5
202	STORAGE	ETR	RB-1	P-1	P-1	P-1	P-1	-	-	-	-	P-2	P-2	P-1	-	-	-	-
203	HVAC	ETR	RB-1	P-1	P-1	P-1	P-1	-	-	-	-	P-2	P-2	P-1	-	-	-	-
204	STORAGE ROOM	ETR	RB-1	P-1	P-1	P-1	P-1	-	-	-	-	P-2	P-2	P-1	-	-	-	-

FINISH SCHEDULE LEGEND

WALK-OFF MAT

WOM-1	MANUFACTURER	PATCRAFT
	COLLECTION	FOOT IN THE DOOR II
	STYLE	I0304 - WALK RIGHT IN II
	COLOR	00100 - NATURAL BEIGE
	SIZE	24" x 24"
	INSTALL	MONOLITHIC

SHEET VINYL FLOORING

SV-1	MANUFACTURER	TARKETT
	STYLE	ARIA
	COLOR	GYPSY MOTH CB 21010 655
	SIZE	6'-6" WIDE ROLL
	SEAMS	HEATWELD
	WELDING ROD	COLOR TO MATCH
	BASE	6" HIGH INTEGRAL COVED
SV-2	MANUFACTURER	GERFLOR
	STYLE	TARASAFE ULTRA
	COLOR	7383 DIOPSIDE
	SIZE	6'-6" WIDE ROLL
	SEAMS	HEATWELD
	WELDING ROD	COLOR TO MATCH
	BASE	6" HIGH INTEGRAL COVED

WOOD FLOORING

WD-1	REFINISH EXISTING WOOD	
	SPECIES	MAPLE
	STAIN	CLEAR / NATURAL
	NOTE: SEE CONTROL SAMPLE FOR COLOR	

VINYL COMPOSITION TILE

VCT-1	MANUFACTURER	ARMSTRONG
	STYLE	STANDARD EXCELON IMPERIAL TEXTURE
	COLOR	51810 WASHED LINEN
	SIZE	12" x 12" x 1/8" (3.2mm) THICK
	INSTALL	QUARTER TURN

RUBBER FLOORING

RF-1	MANUFACTURER	TARKETT
	STYLE	ANGLE FIT RUBBER STAIR TREAD WITH INTEGRATED RISER
	COLOR	VF2 OAK VALLEY
	TEXTURE	COLOR SPLASH SPECKLED HAMMERED RUBBER TILE
	SAFE-T INSERT	CONTRASTING GRIT TAPE, BLACK PHOTOLUMINESCENT TOP & BOTTOM TREAD
	WIDTH	5-10" MAX WIDTH
	INSTALL	ONE PIECE PER TREAD/RISER
	LANDING	24" x 24" TILE, COLOR SPLASH SPECKLED HAMMERED

BASE

B-1	WOOD BASE	
	FINISH	PAINT P-2
RB-1	MANUFACTURER	TARKETT
	STYLE	BASEWORKS THERMOSET RUBBER (TYPE TS)
	COLOR	55 SILVER GREY WG
	SIZE	4" HIGH COIL W/ TOE (NO MANUFACTURED CORNERS)

PAINT

P-1	MANUFACTURER	DUNN EDWARDS
	COLOR	DE6218 ANTIQUE PAPER
	FINISH	LOW SHEEN
	LOCATION	FIELD
P-1E	MANUFACTURER	DUNN EDWARDS
	COLOR	DE6218 ANTIQUE PAPER
	FINISH	EPOXY
	LOCATION	KITCHEN
P-2	MANUFACTURER	DUNN EDWARDS
	COLOR	DEC796 GRAY PEARL
	FINISH	EPOXY
	LOCATION	DOORS & TRIM
P-3	MANUFACTURER	DUNN EDWARDS
	COLOR	DE6376 LOOKING GLASS
	FINISH	LOW SHEEN
	LOCATION	ACCENT
P-4	MANUFACTURER	DUNN EDWARDS
	COLOR	DET591 SILVER SCREEN
	FINISH	LOW SHEEN
	LOCATION	ACCENT
P-5	MANUFACTURER	DUNN EDWARDS
	COLOR	DE6213 FINE GRAIN
	FINISH	LOW SHEEN
	LOCATION	ACCENT
P-6	MANUFACTURER	DUNN EDWARDS
	COLOR	DE6350 DARK ENGINE
	FINISH	LOW SHEEN
	LOCATION	STAGE
P-7	MANUFACTURER	DUNN EDWARDS
	COLOR	DE6371 BLACKJACK
	FINISH	LOW SHEEN
	LOCATION	STAGE DOORS

WALL PROTECTION

WP-1	MANUFACTURER	IPC DOOR + WALL PROTECTION SYSTEMS
	STYLE	RICOCHET - SKETCH
	COLOR	SIDEWALK R715
	SIZE	48" WIDE ROLL
	INSTALL	SEE INTERIOR ELEVATIONS, FULL PANEL BETWEEN TRIM

ACOUSTICAL WALL PANEL

AWP-1	MANUFACTURER	KIREI
	SERIES	EMBOSSED PANELS
	STYLE	ZEN PANELS
	COLOR	908 CREAM
	SIZE	110.2"H x 44.5"L x 0.35"D
	INSTALL PATTERN	VERTICAL DIRECTION

CORNER GUARD

CG-1	MANUFACTURER	IPC DOOR + WALL PROTECTION SYSTEMS
	STYLE	SURFACE MOUNT STAINLESS STEEL
	WING SIZE	2"
	THICKNESS	18 GAUGE
	INSTALL	FULL HEIGHT

FIBER REINFORCED LAMINATE

FRL-1	MANUFACTURER	NEVAMAR WALL PROTECTION PANELS
	PATTERN	VA7002
	COLOR	COOL CHIC
	SIZE	4' WIDE X 8' LONG
	TRIM	COLOR COORDINATED PVC MOLDINGS
	INSTALL	4' HIGH ABOVE BASE

FIBERGLASS REINFORCED PANEL

FRP-1	MANUFACTURER	MARLITE
	TEXTURE	PEBBLED FRP
	COLOR	P145 SILVER
	SIZE	4' x 8'
FRP-2	MANUFACTURER	MARLITE
	TEXTURE	PEBBLED FRP
	COLOR	P100 WHITE
	SIZE	4' x 8'

STAINLESS STEEL PANEL

SS-1	STAINLESS STEEL PANELS	
	SIZE	4' x 8'

PLASTIC LAMINATE

PL-1	MANUFACTURER	NEVAMAR
	PATTERN	LN6002T KOPI SUSU

SOLID SURFACE MATERIAL

SSM-1	MANUFACTURER	DURASEIN
	COLOR	ROYAL CARRERA
	PRODUCT NUMBER	DM5009

ACOUSTICAL CEILING TILE

ACT-1	MANUFACTURER	ARMSTRONG
	STYLE	ULTIMA HIGH NRC 1940 SQUARE LAY-IN
	COLOR	WHITE
	SIZE	24" x 24"
	GRID	15/16" PRELUDE, WHITE
ACT-2	MANUFACTURER	ARMSTRONG
	STYLE	CIRRUS PROFILES 591 CLASSIC STEP TEGULAR
	COLOR	WHITE
	SIZE	24" x 24"
	GRID	15/16" PRELUDE, WHITE
ACT-3	MANUFACTURER	ARMSTRONG
	STYLE	BACKSTAGE NOIR 1318 SQUARE LAY-IN
	COLOR	BLACK
	SIZE	24" x 24"
	GRID	15/16" PRELUDE, BLACK
ACT-4	MANUFACTURER	ARMSTRONG
	STYLE	KITCHEN ZONE 673 SQUARE LAY-IN
	COLOR	WHITE
	SIZE	24" x 24"
	GRID	15/16" PRELUDE, WHITE

GLASS

GL-1	MANUFACTURER	GOLDRAY GLASS
	STYLE	PRIVACY TEXTURES
	TEXTURE	1/8" NARROW REED

TOILET PARTITION

PRT-1	MANUFACTURER	SCANTRON PRODUCTS
	PATTERN	ORANGE PEEL
	COLOR	CONCRETE

WINDOW SHADE

WS-1	MANUFACTURER	DRAPER
	STYLE	SINGLE ROLL
	STYLE	SHEARWEAVE BASIC 5%
	SHADE COLOR	P05 WHITE/PLATINUM

TILE

FLOOR TILE

FT-1	MANUFACTURER	EMSER TILE
	COLLECTION	COSMOPOLITAN
	COLOR	CRYSTAL
	FINISH	SATIN
	SIZE	24" x 24"
	INSTALL	DRINKING FOUNTAIN ALCOVE

WALL TILE

WT-1	MANUFACTURER	GENROSE STONE & TILE
	COLLECTION	MYSTIQUE
	COLOR	DECO 7
	FINISH	MATTE
	SIZE	8" x 8"
	INSTALL	DRINKING FOUNTAIN ALCOVE

STAGE CURTAIN

STAGE CURTAIN

ST-1	MANUFACTURER	KM FABRICS
	PATTERN	PLATEAU
	PIECE	STYLE 626
	COLOR	PEWTER 1060

FINISH ABBREVIATIONS

AT	ACOUSTICAL CEILING TILE
ATSP	ACOUSTICAL CEILING TILE SCRABBLE
ATWD	WOOD CEILING PANELS
B	WALL BASE
BG	BUMPER GUARD
C	CONCRETE
CG	CORNER GUARD
CHR	CHAIR RAIL
CPT	CARPET
CR	CRASH RAIL
CT	CERAMIC TILE
DR	DOOR
DWP	DECORATIVE WALL PANEL
EPX	EPOXY
ETR	EXISTING TO REMAIN
EXP	EXPOSED STRUCTURE
FF	FACTORY FINISH
FRL	FIBER REINFORCED LAMINATE
FRP	FIBERGLASS REINFORCED PANEL
FT	FLOOR TILE
GL	GLASS
HIC	HIGH IMPACT WALL COVERING
HR	HAND RAIL
LCK	LOCKERS
LVT	LUXURY VINYL TILE
ME	MATCH EXISTING
MTL	METAL
NS	NATURAL STONE
PB	PROFILE WALL BASE (MITERED CORNERS)
PG	PRESSED GLASS
PL	PLASTIC LAMINATE
PRT	TOILET PARTITION
PRV	PRIVACY CURTAIN
P-1	PAINT - EGGSHELL/SATIN
P-1A	PAINT - SEMI-GLOSS
P-1E	PAINT - EPOXY
QRZ	QUARTZ SURFACING
RAF	RUBBER ATHLETIC FLOORING
RF	RUBBER FLOORING
RP	RESIN PANEL FLOORING
RT	RUBBER TILE
SCB	SELF COVE BASE
SCR	SHOWER CURTAIN
SDT	STATIC DISSIPATIVE TILE
SSM	SOLID SURFACING MATERIAL
ST	STAINED
SV	SHEET VINYL
SVT	SOLID VINYL TILE
TB	TILE BASE
TER	TERRAZZO
TRS	TRANSITION STRIP
TT	TERRAZZO TILE
VCT	VINYL COMPOSITION TILE
VT	VINYL TILE
WB	1" MINI BLINDS
WC	WALL COVERING
WCB	WALL COVERING BORDER
WD	WOOD
WOM	WALK OFF MAT (CARPET)
WP	WALL PROTECTION
WS-1	WINDOW SHADE (SINGLE ROLL)
WS-2	WINDOW SHADE (DOUBLE ROLL)
WSV	WELDED SHEET VINYL
WT	WALL TILE
UON	UNLESS OTHERWISE NOTED

GENERAL NOTES

A. ALL INTERIOR WALL & CLG. FINISHES SALL COMPLY WITH CBC TABLE 803.13 AND SECTION 803 (FLAME SPREAD RATINGS.) PROVIDE A CLASS B (26-75 FLAME SPREAD RATING) AT ROOMS OR AREAS AND A CLASS A (0-25 FLAME SPREAD RATING) AT ALL EXITWAYS. FINISHES SHALL ALSO COMPLY WITH CBC SECTION 1224.4.11 AND TABLE 1224.11.

B. SEE INTERIOR ELEVATIONS, SECTIONS & REFLECTED CEILING FOR ADDITIONAL INFORMATION.

C. ALL ROOM FINISHES DESIGNATED AS EXISTING THAT ARE AFFECTED BY CONSTRUCTION SHALL BE PATCHED TO MATCH ADJACENT FINISHES SO THAT THERE WILL BE NO DISCERNABLE DIFFERENCES BETWEEN NEW AND EXISTING SURFACES.

D. ACOUSTICAL TILE, CARPETING, & VINYL WALL FABRIC SAMPLES MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. CARPET SAMPLES MUST BE ACCOMPANIED BY A REPORT FROM A TESTING LABORATORY CERTIFYING A FLAME-SPREAD RATING OF 75 OR LESS AS PER ASTM-84-68. ALSO ACCEPTABLE IS NBIR 78-1436 CERTIFYING A MINIMUM RATING OF 0.45 WATTS PER SQ. CENTIMETER FOR UNSPRINKLERED BUILDINGS AND 0.22 WATTS PER SQ. CENTIMETER FOR SPRINKLERED BUILDINGS.

E. ALL INTERIOR FLOOR FINISHES SHALL COMPLY WITH CBC SECTION 804.

F. WOOD GRAIN PLASTIC LAMINATES SHALL BE ORIENTED WITH THE GRAIN VERTICALLY (INCLUDING DRAWERS) SUCH THAT THE "GRAIN" MATCHES AND ALIGNED VERTICALLY FROM DRAWER TO DRAWER AND FROM DOOR TO DRAWER AS OCCURS.

G. ALL MECHANICAL GRILLS SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.

H. CARPET SHALL COMPLY WITH THE CBC SECTION 11B-302.2, HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2" MAXIMUM. CARPET EDGES SHALL COMPLY WITH CBC SECTION 11B-303.

ROOM FINISH REMARKS

1. INSTALL WAINSCOT 48" ABOVE INTEGRAL COVED BASE.
2. USE MATCHING COLOR WELDING ROD AT ALL FLOORING SEAMS.
3. SEE SHEET ID201 FOR FINISH LOCATIONS.
4. SEE INTERIOR ELEVATIONS FOR WALL FINISH LAYOUTS.
5. SEE RCP FOR CEILING MATERIAL LOCATIONS.
6. ALL NEW AND EXISTING GYPSUM BOARD WALLS AND CEILINGS TO BE PAINTED P-1. EXISTING WOOD FLOOR, WALLS, AND CEILINGS TO REMAIN AS IS.
7. PAINT CEILING BEAMS, P-1 TO MATCH CEILING.

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PROJECT NAME

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VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FINISH SCHEDULE

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Sym.	Description	Date

Drawn By	NGG
Date Issued	2/13/2025
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Project No.	21-6497

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A700

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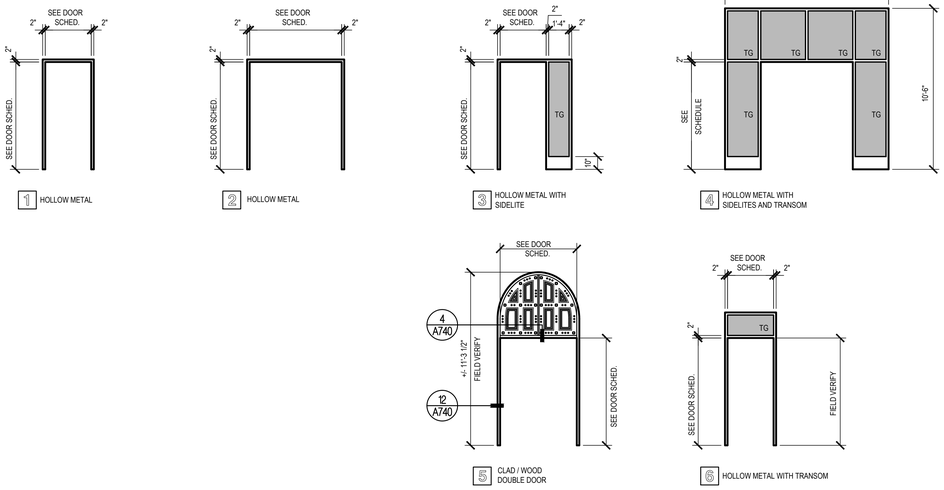
DOOR FRAME TYPES



1 HOLLOW METAL

2 HOLLOW METAL

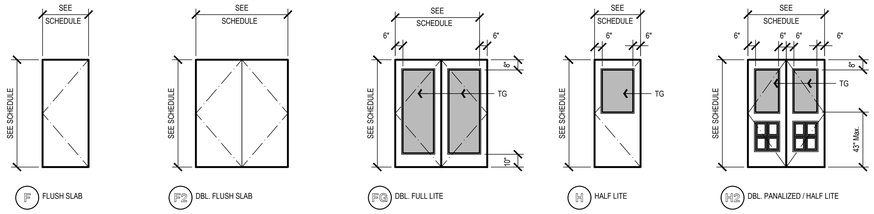
3 HOLLOW METAL WITH SIDELITE

4 HOLLOW METAL WITH SIDELITES AND TRANSOM

5 CLAD / WOOD DOUBLE DOOR

6 HOLLOW METAL WITH TRANSOM

DOOR TYPES



F FLUSH SLAB

F2 DBL. FLUSH SLAB

FG DBL. FULL LITE

H HALF LITE

H2 DBL. PANALIZED / HALF LITE

N NARROW LITE

N2 NARROW LITE & FLUSH DIFFERENT LEAF SIZES

R OVERHEAD COILING COUNTER DOOR

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME TYPE	FRAME FINISH	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	HARDWARE GROUP	SIGNAGE TEXT	REMARKS
101A	PR 2/6 x 7/0	HD	CLAD/WOOD	CLAD/STAIN	CLAD/WOOD	5	CLAD/STAIN	4 / A740	12 / A740	9 / A740 SIM.	01	EXIT	
102A	2/4 x 7/0	F	PLAM	PRE-FIN	HM	1	PAINT	12 / A741	13 & 14 / A741		02	STORAGE	
103A	2/4 x 7/0	F	PLAM	PRE-FIN	HM	1	PAINT	12 / A741	13 & 14 / A741		03	STORAGE	
105A	3/0 x 7/0	H	PLAM	PRE-FIN	HM	1	PAINT	12 / A741	13 & 14 / A741		04	OFFICE	
106A	3/0 x 7/0	F	PLAM	PRE-FIN	HM	1	PAINT	12 / A741	13 & 14 / A741		05	MEN	
107A	3/0 x 7/0	F	PLAM	PRE-FIN	HM	1	PAINT	12 / A741	13 & 14 / A741		05	WOMEN	
108A	3/0 x 7/0	H	HM	PAINT	HM	3	PAINT	4 / A741	8 / A741	9 / A740 SIM.	06	EXIT	AUTOMATIC DOOR OPERATOR
109A	3/0 x 7/0	F	PLAM	PRE-FIN	HM	1	PAINT	12 / A741	13 & 14 / A741		07	JANITOR	
110A	PR 3/0 x 7/0	FG	PLAM	PRE-FIN	HM	2	PAINT	12 / A741 SIM.	14 / A741 SIM.		08	AUDITORIUM & LOBBY	
110B	PR 3/0 x 7/0	FG	PLAM	PRE-FIN	HM	2	PAINT	12 / A741 SIM.	14 / A741 SIM.		08	AUDITORIUM & LOBBY	
110C	3/0 & 2/0 x 7/0	N2	HM	PAINT	HM	2	PAINT	4 / A741	8 / A741	9 / A740 SIM.	01	EXIT	AUTOMATIC DOOR OPERATOR
111A	3/0 x 7/0	N	HM	PAINT	HM	1	PAINT	4 / A741	8 / A741	9 / A740 SIM.	06	EXIT	AUTOMATIC DOOR OPERATOR
112A	3/6 x 7/0	F	HM	PAINT	HM	1	PAINT	18 / A741	8 / A741	9 / A740 SIM.	09	EXIT	
113A	EXISTING			PAINT			PAINT				10	STORAGE 2	
113.1A	3/0 x 7/0	F	WOOD	PAINT	HM	1	PAINT	12 / A741	13 & 14 / A741		11	STORAGE 1	PAINT GRADE, FLUSH SLAB DOOR
114A	EXISTING			PAINT			PAINT				10	STORAGE 3	
115A	EXISTING			PAINT			PAINT				10	STORAGE 4	
116A	EXISTING			PAINT			PAINT				12	STORAGE 5	
117A	3/0 x 7/0	N	HM	PAINT	HM	1	PAINT	4 / A741	8 / A741	9 / A740 SIM.	13	EXIT	
117B	EXISTING			PAINT			PAINT				14	BASEMENT	
117C	EXISTING			PAINT			PAINT				14	EXIT	
118A	2/8 x 7/0	N	HM	PAINT	HM	6	PAINT	4 / A741	8 / A741	9 / A740 SIM.	15	EXIT	
118B	3/0 x 7/0	N	PLAM	PRE-FIN	HM	1	PAINT	12 / A741 SIM.	14 / A741 SIM.		16	BANQUET ROOM & KITCHEN	
118C	3/0 x 7/0	N	PLAM	PRE-FIN	HM	1	PAINT	12 / A741	13 & 14 / A741		17	AUDITORIUM & KITCHEN	
118D	9/0 x 4/2	R	S.S.	PRE-FIN	S.S.		PRE-FIN				18		
119A	PR 3/0 x 7/0	FG	PLAM	PRE-FIN	HM	4	PAINT	15 / A741	16 / A741		08	BANQUET ROOM & AUDITORIUM	
119B	PR 3/0 x 7/0	FG	PLAM	PRE-FIN	HM	4	PAINT	15 / A741	16 / A741		08	BANQUET ROOM & AUDITORIUM	
120A	3-0 x 7-0	FG	PLAM	PRE-FIN	HM	3	PAINT	12 / A741	13 & 14 / A741		19	SOCIAL ROOM & LOBBY	
120B	3-0 x 7-0	N	PLAM	PRE-FIN	HM	1	PAINT	15 / A741	16 / A741		20	SOCIAL ROOM & AUDITORIUM	
120C	3-0 x 7-0	N	PLAM	PRE-FIN	HM	1	PAINT	12 / A741	13 & 14 / A741		19	SOCIAL ROOM & BANQUET ROOM	
120D	(E) ROLLING DOOR			PAINT			PAINT				21		
202A	EXISTING			PAINT			PAINT				22	STORAGE	
203A	EXISTING			PAINT			PAINT				22	MECHANICAL	
204A	3/0 x 7/0	F	WOOD	PAINT	HM	1	PAINT	12 / A741	13 & 14 / A741		11	STORAGE	PAINT GRADE, FLUSH SLAB DOOR

DOOR & HARDWARE GENERAL NOTES

A. FOR SELF-CLOSING AND LATCHING DOORS, SEE DETAIL 5/G212 FOR CLEARANCES.

B. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. BOTH THE DEAD BOLT AND LATCH MUST REACT WITH A SINGLE HAND MOTION. CBC 1008.1.9.5.

C. A MAXIMUM OF 1/2" (BEVELED 1 : 2) TOTAL VERTICAL RISE IS REQUIRED AT EACH SIDE OF ALL DOORS, INCLUDING THRESHOLDS.

D. MAXIMUM DOOR OPENING EFFORT TO BE 5 POUNDS AT EXTERIOR AND INTERIOR DOORS, AND 15 POUNDS AT FIRE DOORS. CBC 11B-404.2.9

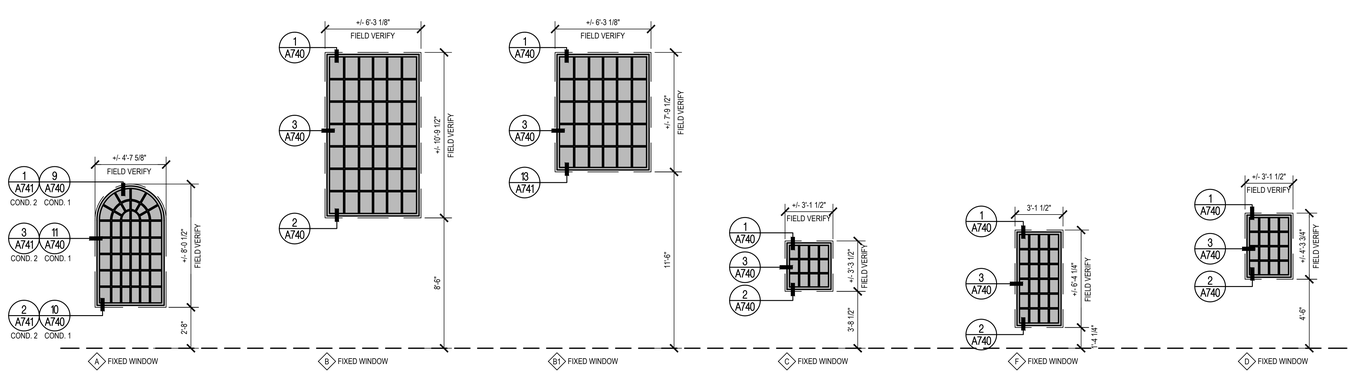
E. ALL DOORS TO BE EQUIPPED WITH SINGLE-EFFORT, NON-GRASP HARDWARE (I.E., LEVER) CENTERED BETWEEN 34 INCHES AND 44 INCHES ABOVE THE FLOOR. CBC 11B-404.2.7

F. FOR DOORS WITH CLOSERS, THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. CBC 11B-404.2.8.1

G. PANIC AND FIRE EXIT HARDWARE SHALL COMPLY WITH CBC 1008.1.10 AND BE LISTED IN ACCORDANCE WITH UL 305.

H. ALL EXTERIOR DOORS SHALL BE TIGHTLY WEATHER-SEALED AND SELF-CLOSING. EXTERIOR HARDWARE SHALL BE COMMERCIAL GRADE & SELF LOCKING PER RMC 6.12.180 (F) & RMC 6.12.210.

WINDOW TYPES



A FIXED WINDOW

B FIXED WINDOW

B1 FIXED WINDOW

C FIXED WINDOW

F FIXED WINDOW

D FIXED WINDOW

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LICENSED ARCHITECT
KYLE MATTHEW
C 27504
REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

DOOR & WINDOW SCHEDULES

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

A710

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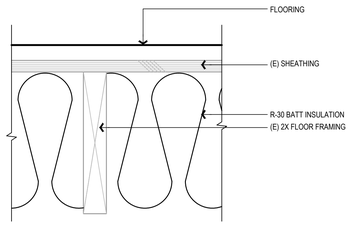
FLOOR

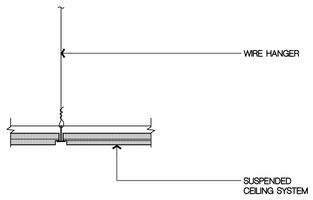
ALL ITEMS ARE NEW UNLESS LISTED AS (E) OR EXISTING



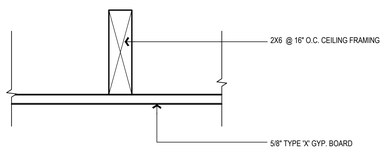
F 1 — EXISTING FLOOR WITH NEW INSULATION
NON- FIRE RATED — SCALE: 3" = 1'-0"

CEILING

ALL ITEMS ARE NEW UNLESS LISTED AS (E) OR EXISTING



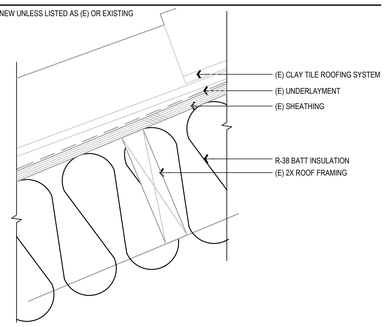
C 1 — SUSPENDED ACOUSTICAL CEILING SYSTEM
NON- FIRE RATED — SCALE: 3" = 1'-0"



C 2 — GYPSUM BOARD CEILING SYSTEM
NON- FIRE RATED — SCALE: 3" = 1'-0"

ROOF

ALL ITEMS ARE NEW UNLESS LISTED AS (E) OR EXISTING



R 1 — EXISTING CLAY TILE ROOF WITH NEW INSULATION
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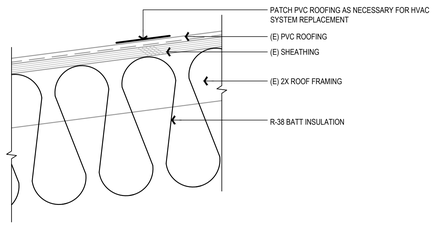
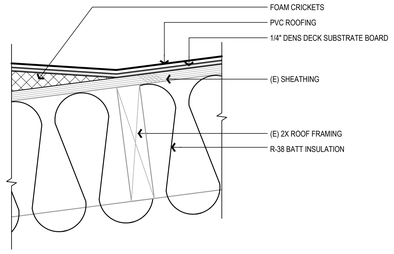
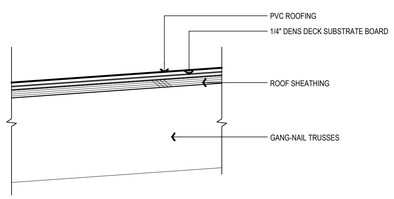


R 2 — EXISTING PVC ROOF WITH NEW INSULATION
NON- FIRE RATED — SCALE: 3" = 1'-0"



R 3 — NEW PVC ROOF AT EXISTING FRAMING
NON- FIRE RATED — SCALE: 3" = 1'-0"

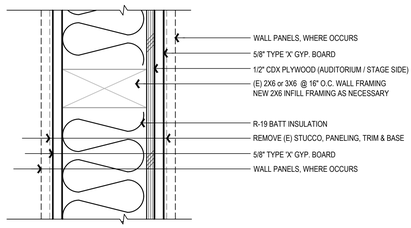
R 4 — NOT USED
SCALE: 3" = 1'-0"



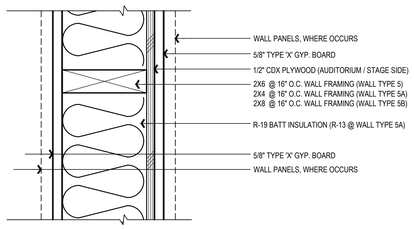
R 5 — NEW PVC ROOF AT EXISTING FRAMING
NON- FIRE RATED — SCALE: 3" = 1'-0"

INTERIOR WALLS

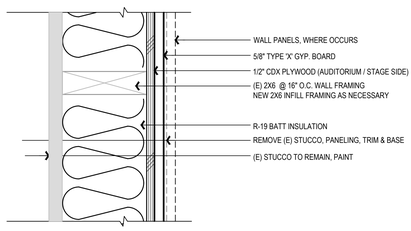
ALL ITEMS ARE NEW UNLESS LISTED AS (E) OR EXISTING



W 4 — EXISTING INTERIOR WALL WITH NEW INSULATION AND FINISHES
NON- FIRE RATED — SCALE: 3" = 1'-0"



W 5 — NEW INTERIOR WALL
NON- FIRE RATED — SCALE: 3" = 1'-0"



W 6 — EXISTING INTERIOR WALL WITH NEW INSULATION AND FINISHES
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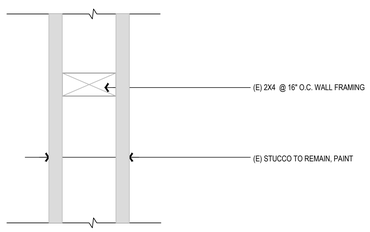
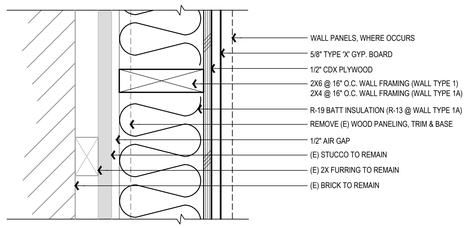


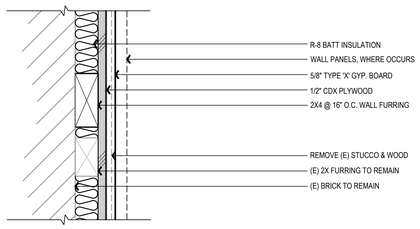
W 7 — EXISTING INTERIOR WALL WITH EXISTING WALL FINISHES
NON- FIRE RATED — SCALE: 3" = 1'-0"

EXTERIOR WALLS

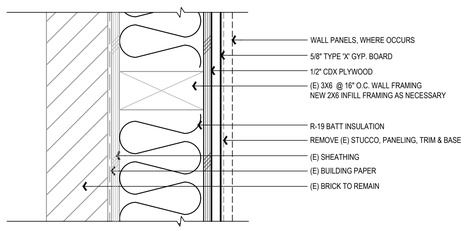
ALL ITEMS ARE NEW UNLESS LISTED AS (E) OR EXISTING



W 1 — TYPICAL EXTERIOR BRICK WALL WITH NEW INTERIOR WOOD WALL
NON- FIRE RATED — SCALE: 3" = 1'-0"



W 2 — TYPICAL EXTERIOR BRICK WALL WITH NEW INTERIOR FURRING
NON- FIRE RATED — SCALE: 3" = 1'-0"



W 3 — EXTERIOR 3X6 STUD WALL WITH BRICK VENEER
NON- FIRE RATED — SCALE: 3" = 1'-0"

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LICENSED ARCHITECT — KYLE MATTHEW — C 27504 — REN. 10/31/25 — STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

CONSTRUCTION ASSEMBLIES

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

A720

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Plot Date: October 21, 2025 - 11:55 am
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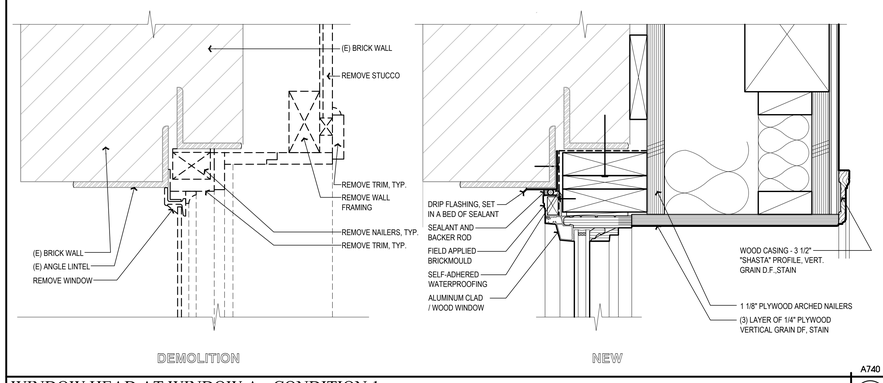
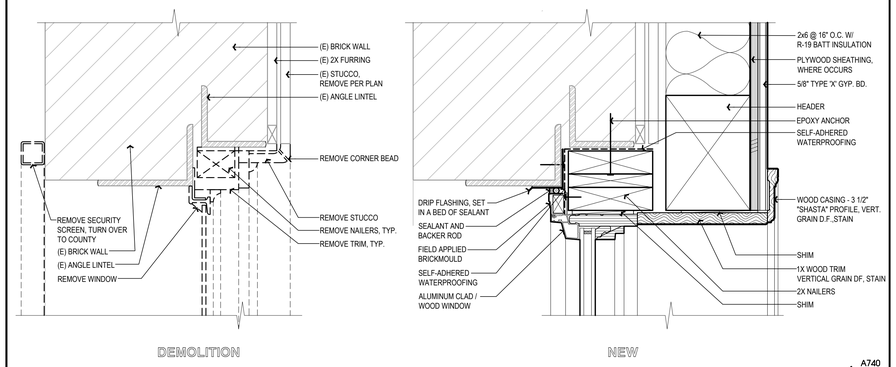


A740

WINDOW HEAD AT WINDOW A - CONDITION 1 (9)

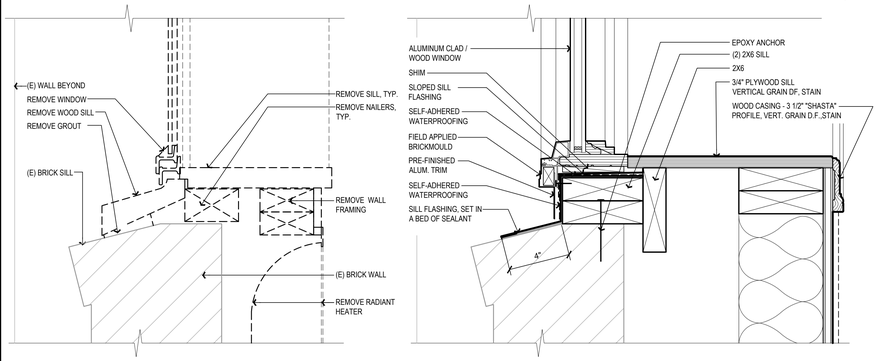
SCALE: 3" = 1'-0"



A740

WINDOW HEAD AT WINDOWS B, C, D & F (1)

SCALE: 3" = 1'-0"



A740

WINDOW SILL AT WINDOW A - CONDITION 1 (10)

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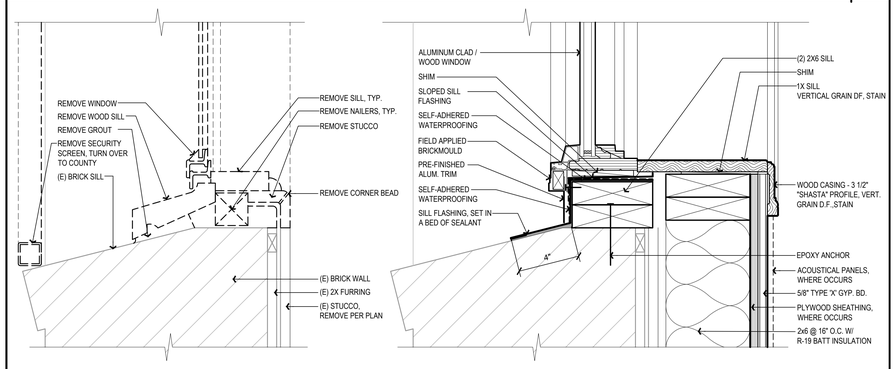
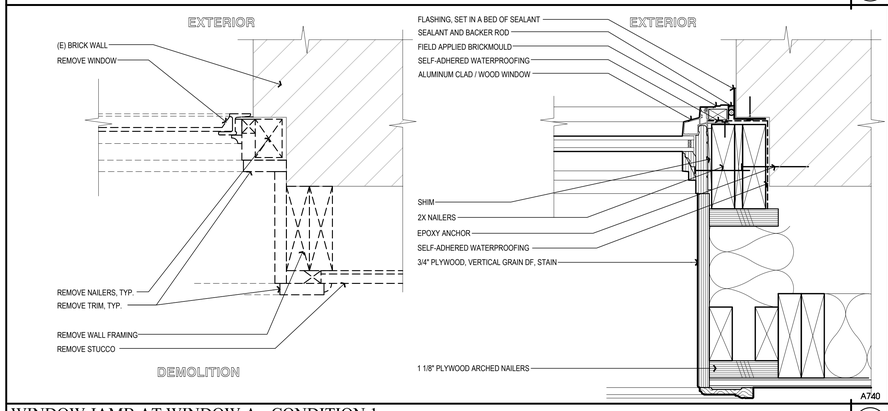


A740

WINDOW SILL AT WINDOWS B, C, D & F (2)

SCALE: 3" = 1'-0"



A740

WINDOW JAMB AT WINDOW A - CONDITION 1 (11)

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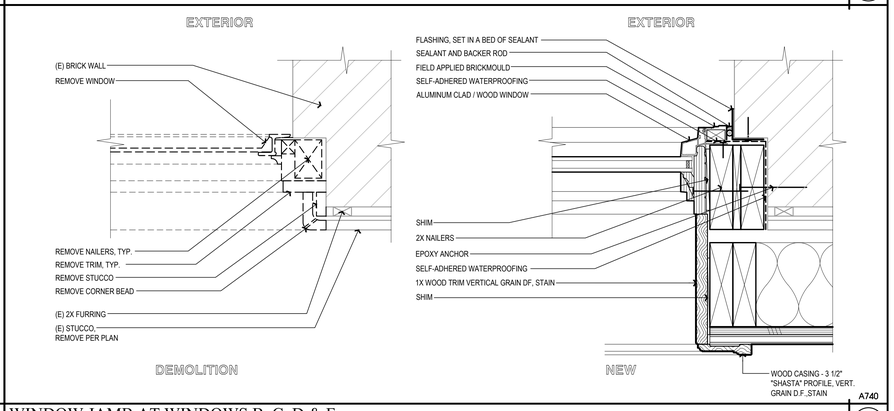

A740

WINDOW JAMB AT WINDOWS B, C, D & F (3)

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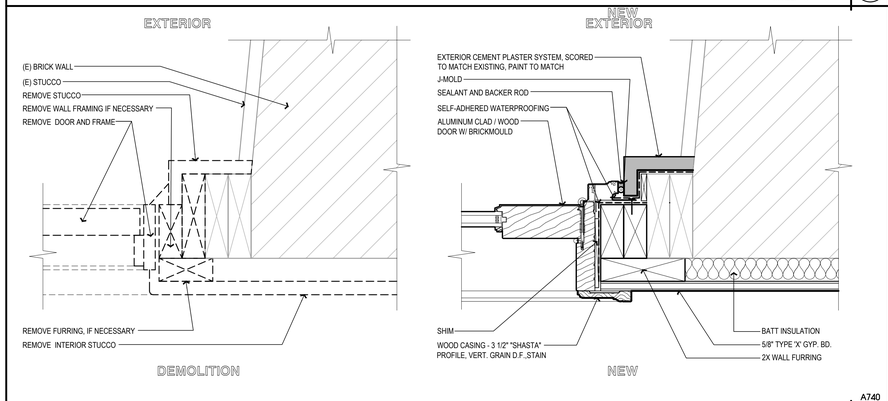

A740

MAIN EXTERIOR DOOR JAMB (12)

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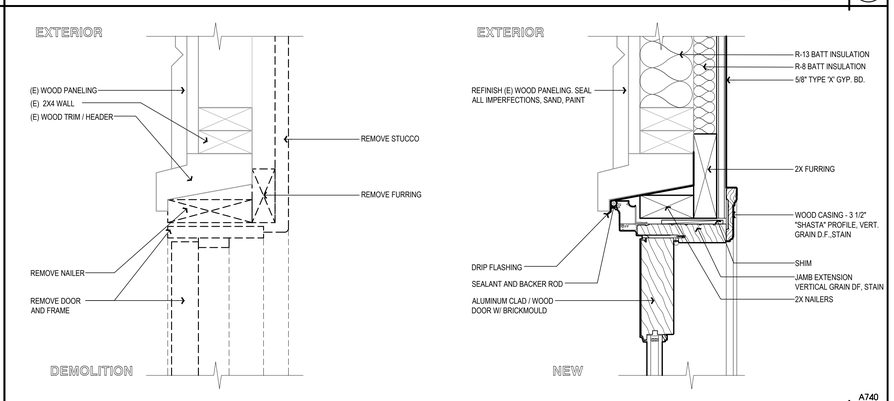

A740

FRONT DOOR HEAD (4)

SCALE: 3" = 1'-0"

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT
KYLE MATTI
C 27504
REN. 10/31/25
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1630 SOLANO ST.
CORNING, CA

SHEET TITLE

EXTERIOR WINDOW & DOOR DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

A740

Login Name: KimberP
Plot Date: February 13, 2025 - 9:36 am
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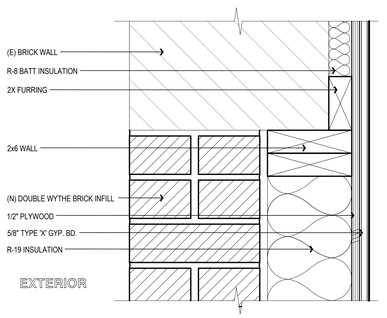
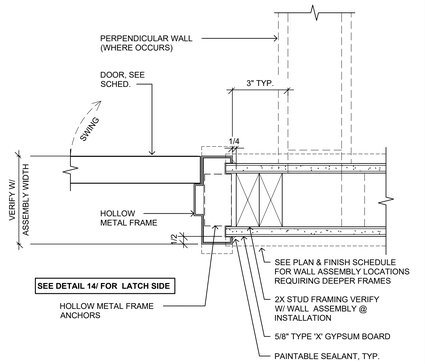
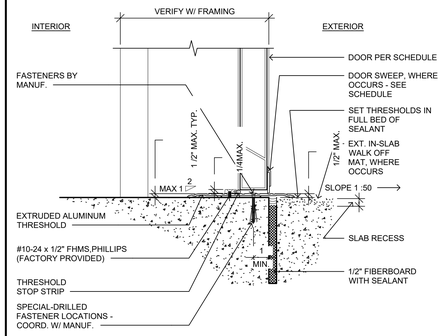


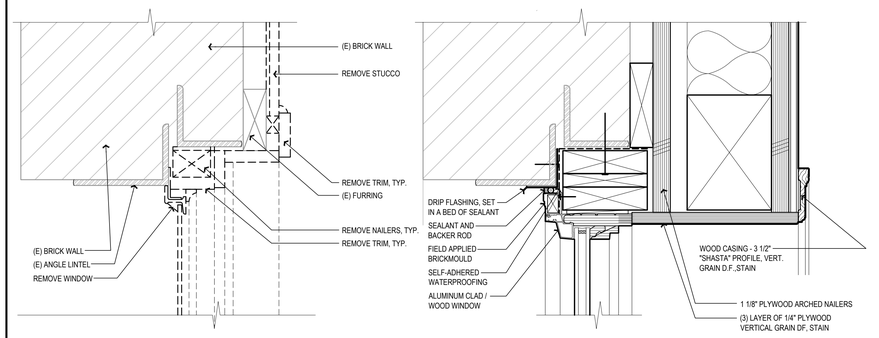
WALL INFILL — SCALE: 3" = 1'-0" — A741 — 17



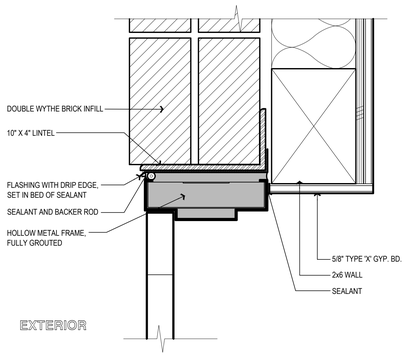
INTERIOR HM DOOR HINGE SIDE — SCALE: 3" = 1'-0" — A741 — 13



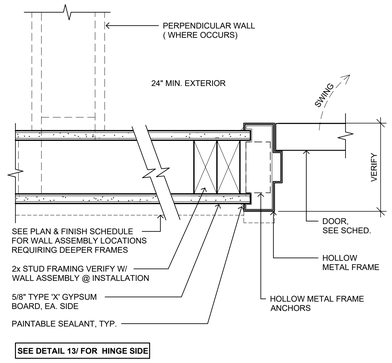
THRESHOLD AT EXTERIOR DOOR CONCRETE TO CONCRETE — SCALE: 3" = 1'-0" — A741 — 9



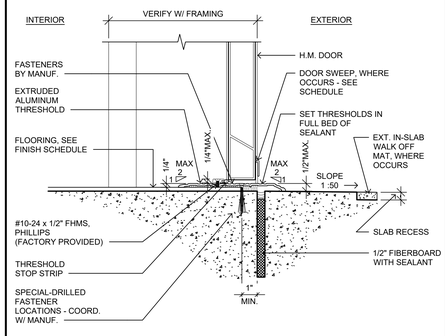
WINDOW HEAD AT WINDOW A - CONDITION 2 — SCALE: 3" = 1'-0" — A741 — 1



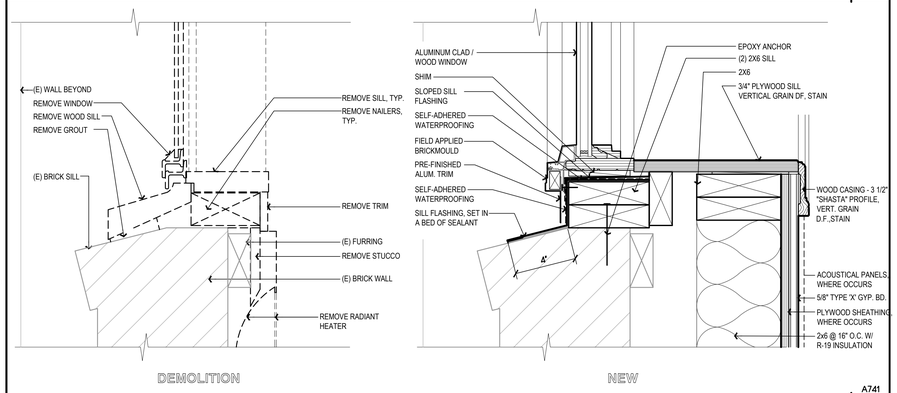
EXTERIOR HM DOOR HEAD — SCALE: 3" = 1'-0" — A741 — 18



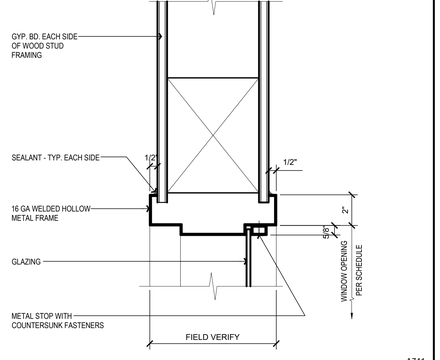
H.M. DOOR LATCH SIDE — SCALE: 3" = 1'-0" — A741 — 14



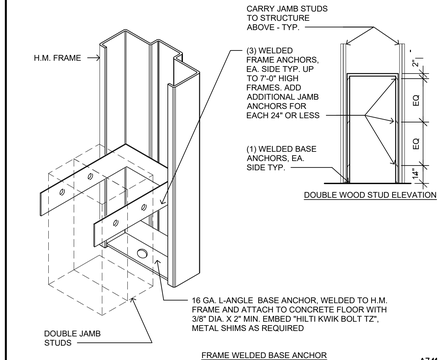
THRESHOLD AT EXTERIOR DOOR CONCRETE TO CARPET — SCALE: 3" = 1'-0" — A741 — 10



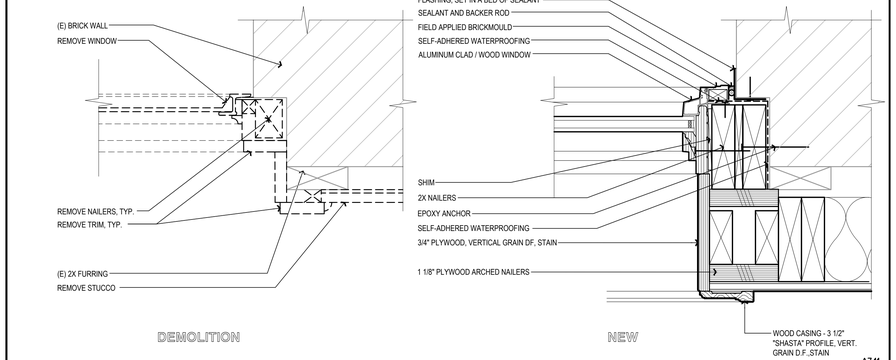
WINDOW SILL AT WINDOW A - CONDITION 2 — SCALE: 3" = 1'-0" — A741 — 2



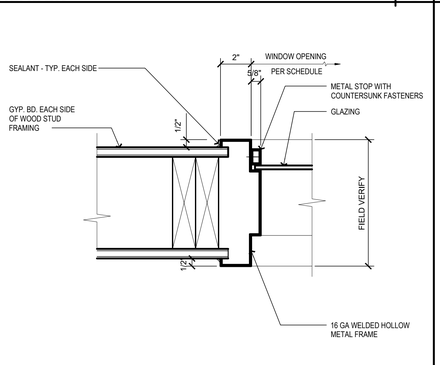
INT HOLLOW METAL FRAME WINDOW HEADER — SCALE: 3" = 1'-0" — A741 — 15



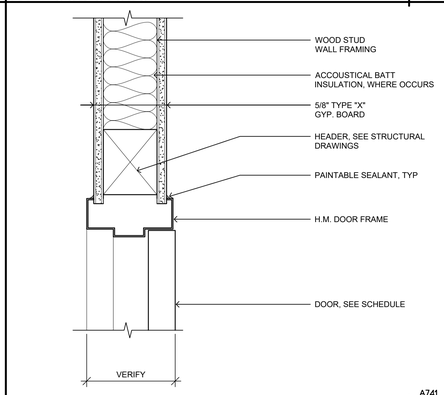
TYPICAL WELDED H.M. FRAME ANCHORS AT WOOD STUDS — SCALE: 3" = 1'-0" — A741 — 11



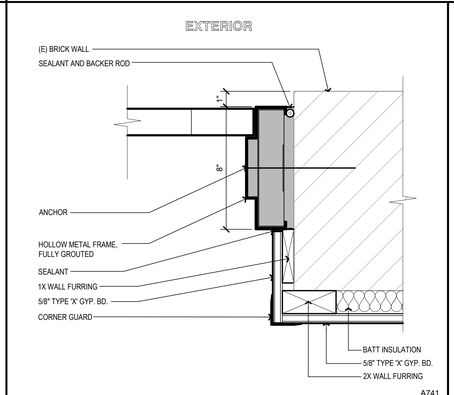
WINDOW JAMB AT WINDOW A - CONDITION 2 — SCALE: 3" = 1'-0" — A741 — 3



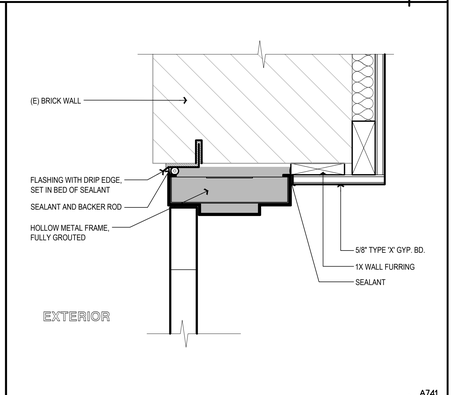
INT HOLLOW METAL FRAME WINDOW JAMB — SCALE: 3" = 1'-0" — A741 — 16



INTERIOR HM DOOR HEAD — SCALE: 3" = 1'-0" — A741 — 12



EXTERIOR HM DOOR JAMB — SCALE: 3" = 1'-0" — A741 — 8



EXTERIOR HM DOOR HEAD — SCALE: 3" = 1'-0" — A741 — 4

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT — KYLE MATTY — C 27504 — REN. 10/31/25 — STATE OF CALIFORNIA

PROJECT NAME

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CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

DOOR & WINDOW DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

A741

Login Name: KevinP
Plot Date: February 13, 2025 - 9:06 am
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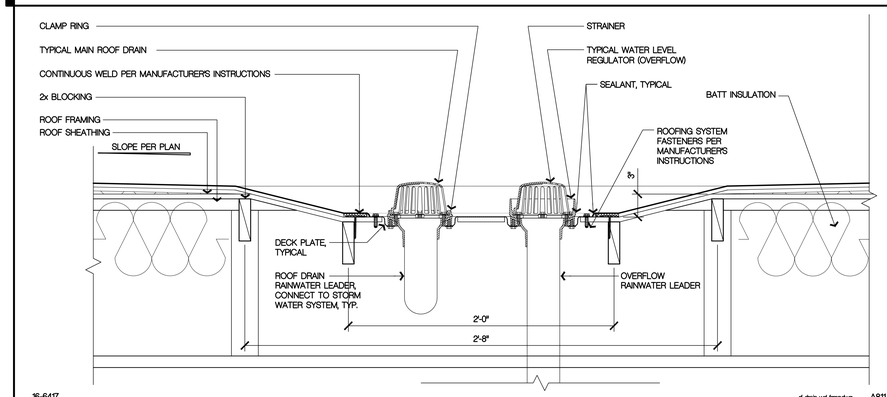
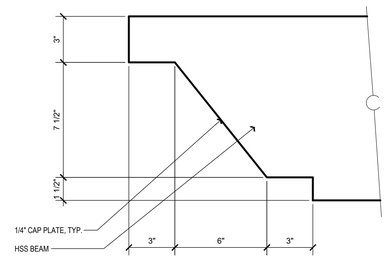


ROOF DRAIN SUMP

SCALE: 1-1/2" = 1'-0" (13)

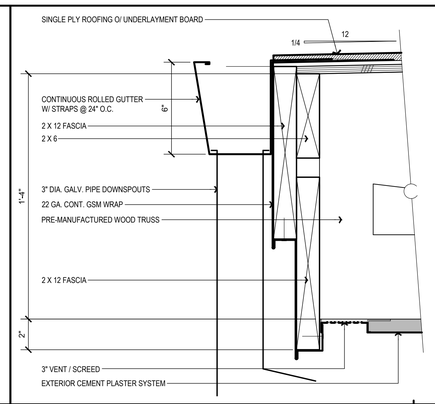
NOT USED

SCALE: 3"=1'-0" (9)



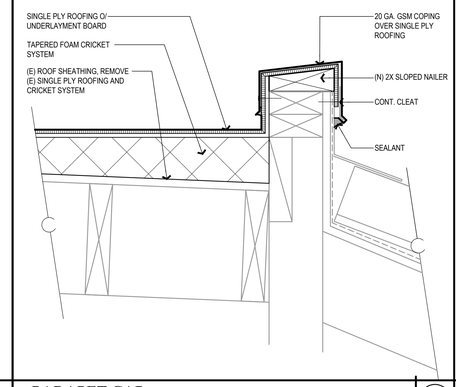
BEAM BEAM END

SCALE: 3"=1'-0" (5)



ROOF EDGE

SCALE: 3"=1'-0" (1)

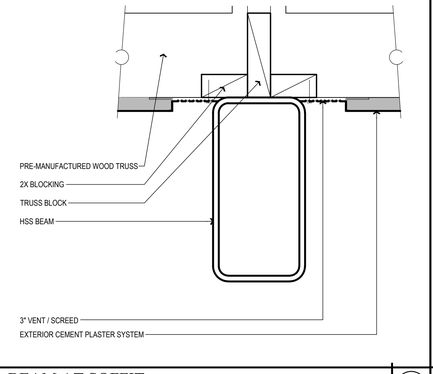


PARAPET CAP

SCALE: 3"=1'-0" (14)

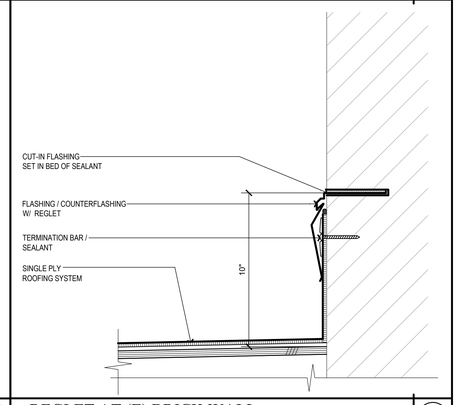
NOT USED

SCALE: 3"=1'-0" (10)



BEAM AT SOFFIT

SCALE: 3"=1'-0" (6)

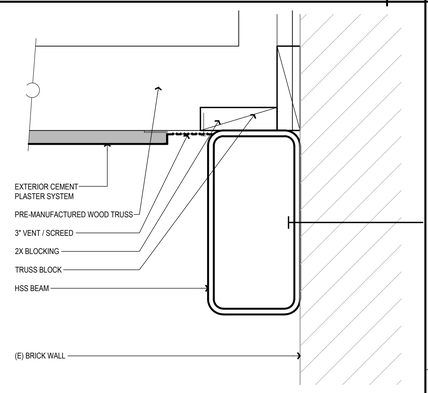


REGLET AT (E) BRICK WALL

SCALE: 3"=1'-0" (2)

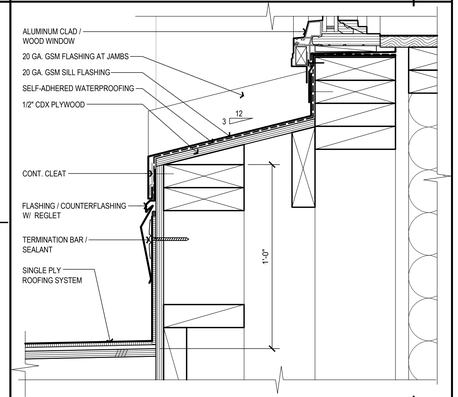
NOT USED

SCALE: 3"=1'-0" (11)



BEAM AT WALL

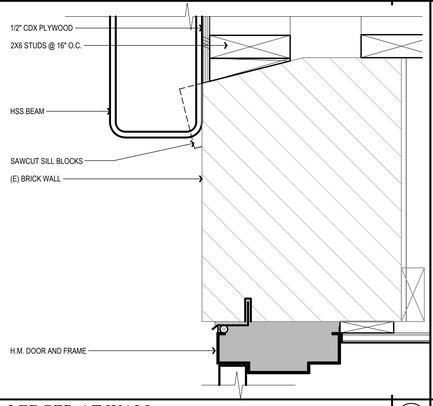
SCALE: 3"=1'-0" (7)



REGLET AT INFILL WALL

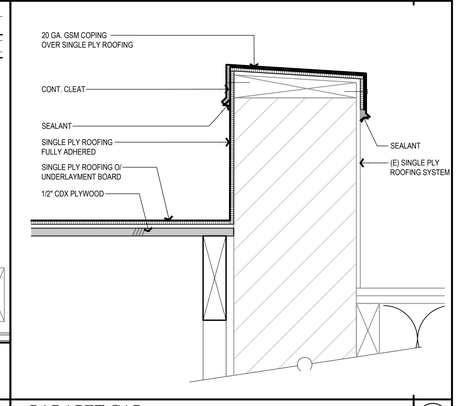
SCALE: 3"=1'-0" (3)

NOT USED



LEDGER AT WALL

SCALE: 3"=1'-0" (8)



PARAPET CAP

SCALE: 3"=1'-0" (4)

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CONSULTANTS

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LICENSED ARCHITECT KYLE MATTESON C 27504 REN. 10/31/25 STATE OF CALIFORNIA

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CORNING, CA

SHEET TITLE

EXTERIOR DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

A801

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Login Name: KleinP
Plot Date: February 13, 2025 - 9:41 am
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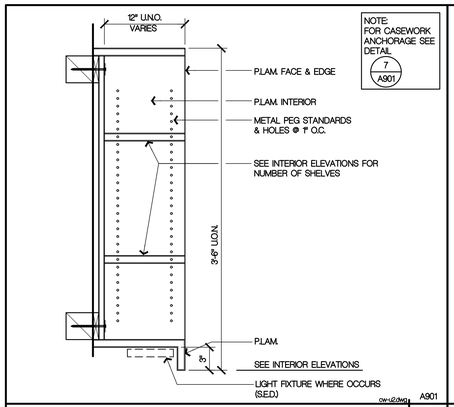
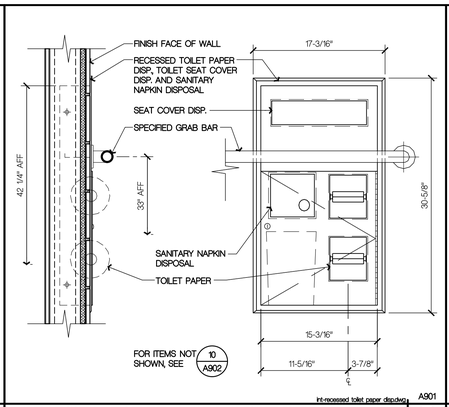


ow-u2.dwg A901

UPPER CABINET OPEN SHELVES U2

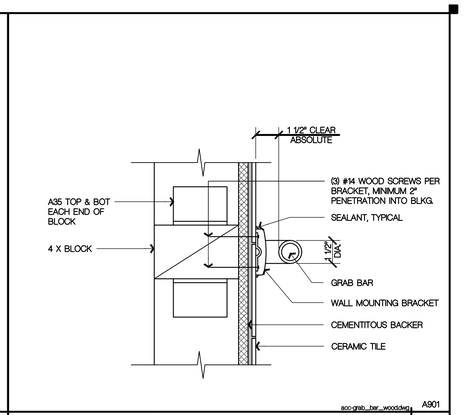
SCALE: 1 1/2"=1'-0" 9



int-recessed toilet paper disp.dwg A901

RECESSED TOILET PAPER DISPENSER

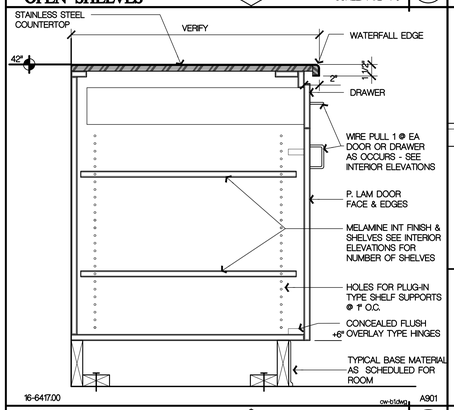
SCALE: 1 1/2"=1'-0" 5



acc-grab...bar...woodsdwg A901

GRAB BAR ANCHORAGE AT WOOD FRAMING

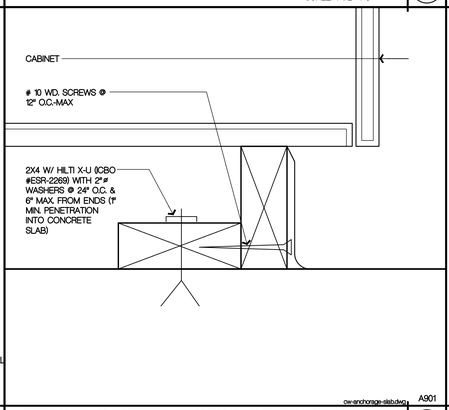
SCALE: 3"=1'-0" 1



ow-b1dwg A901

COUNTER B1

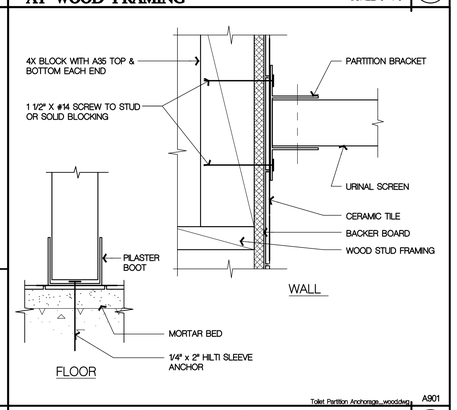
SCALE: 1-1/2"=1'-0" 10



ow-anchorage-slab.dwg A901

TYPICAL CABINET ANCHORAGE TO SLAB

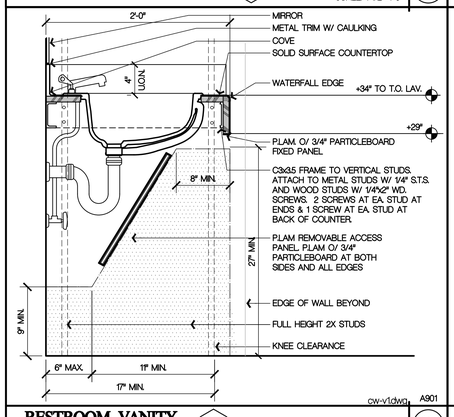
SCALE: 6"=1'-0" 6



Toilet Partition Anchorage...woodsdwg A901

TOILET PARTITION / SCREEN ANCHORAGE AT WOOD FRAMING

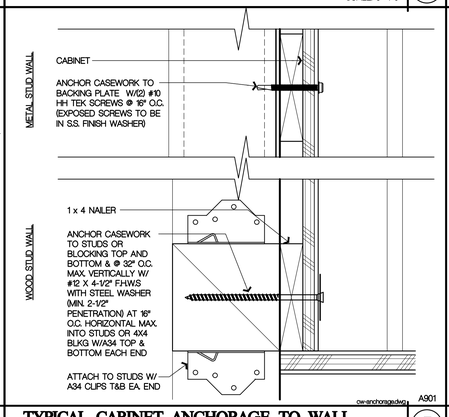
SCALE: 3"=1'-0" 2



cw-v1dwg A901

RESTROOM VANITY AT COUNTER V1

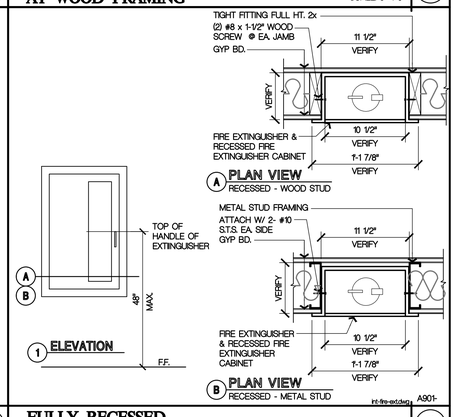
SCALE: 1"=1'-0" 11



cw-anchorage.dwg A901

TYPICAL CABINET ANCHORAGE TO WALL

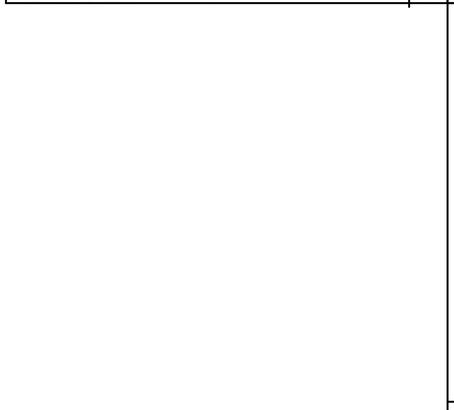
SCALE: 6"=1'-0" 7



int-fire-ext.dwg A901-

FULLY RECESSED FIRE EXTINGUISHER CABINETS

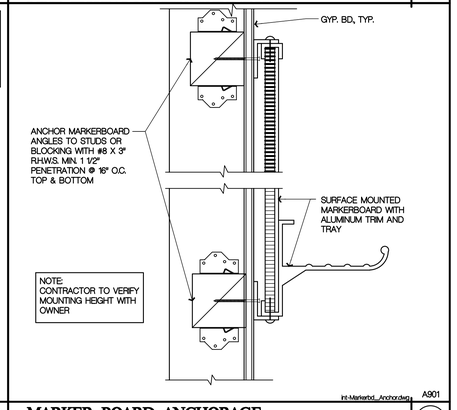
SCALE: 1 1/2"=1'-0" 3



ow-u1dwg A901

UPPER CABINET U1

SCALE: 1 1/2"=1'-0" 8



int-Marker-bd_Anchor.dwg A901

MARKER BOARD ANCHORAGE

SCALE: 3"=1'-0" 4

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SHEET No.

A901

Login Name: KevinP
Plot Date: February 13, 2025 - 9:42 am
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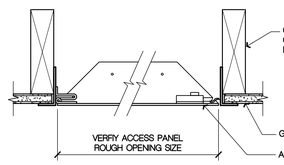
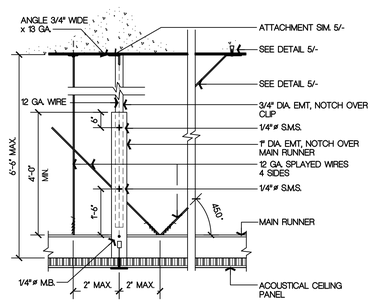
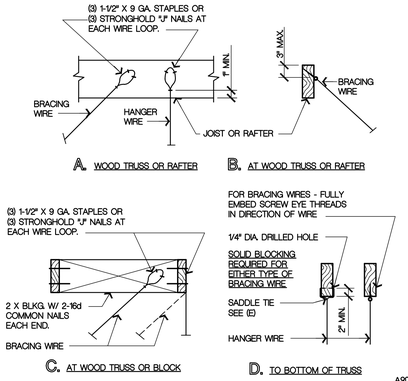


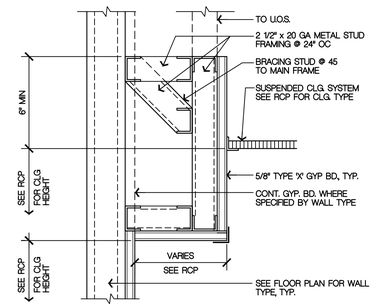
ACCESS PANEL AT FRAMED GYP. BOARD CEILING — SCALE: 3"=1'-0" — A902 (13)



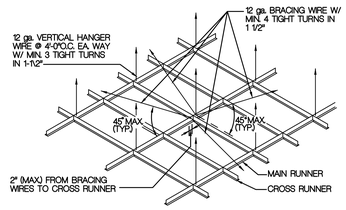
SUSP. ACOUSTICAL CLG. COMPRESSION POST / WIRE BRACE — SCALE: NTS — A902 (9)



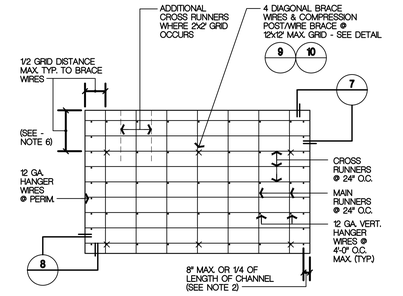
SEISMIC BRACING WIRE ATTACHMENT — SCALE: NTS — A902 (5)



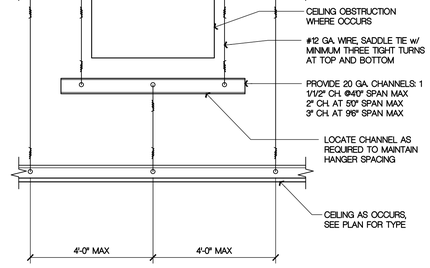
GYP BD. SOFFIT AT SUSPENDED CLG. — SCALE: 1/2"=1'-0" — A902 (14)



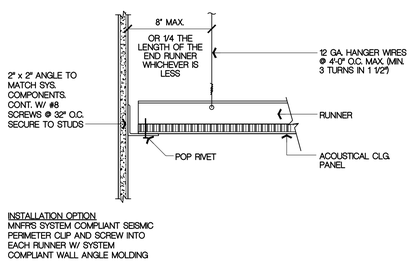
DIAGRAMATIC ACOUSTICAL CEILING — SCALE: NTS — A902 (10)



DIAGRAMATIC ACOUSTICAL CEILING SUSPENSION SYSTEM — SCALE: NTS — A902 (6)



CEILING SUPPORT AT OBSTRUCTION — SCALE: 1/2"=1'-0" — A902 (11)



SUSPENDED ACOUSTICAL CEILING FIXED CONDITION AT WALL — SCALE: 3"=1'-0" — A902 (7)

SUSPENDED CEILING NOTES:

1. 12 gauge (8 ga at gyp. bd) hanger wires may be used for up to and including 4'-0" x 4'-0" grid spacing along main runners. Splices will not be permitted in any hanger wires. See 10
2. Provide 12 ga. (8 ga at gyp. bd) hanger wires at the ends of all main and cross runners within 8" from the support or within 1/4 of the length of the end tee, whichever is least, for the perimeter of the ceiling area. End connections for runners which are designed and detailed to resist the applied horizontal forces may be used in lieu of the 12 ga. hanger wires subject to agency review and approval.
3. Provide trapeze or other supplementary support members at obstructions to main 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 wall shall have counter-sloping wires.
4. Ceiling grid members may be attached to not more than 2 adjacent walls. Ceiling grid members should be at least 1/2 inch free 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 1/2" clear of wall. See 7
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 metal strut or 16 ga. wire with a positive mechanical connection to the runner may be used. Where the perpendicular distance from the wall to the first parallel runner is 12" or less, this interlock is not required. See 8
6. Provide sets of four 12 ga. splayed bracing wires oriented 90 degrees from each other at not more than 12 feet by 12 feet on center. Provide bracing wires at locations not more than 1/2 of the above spacings from each perimeter wall and at the edge of vertical ceiling offsets. The slope of these wires should not exceed 45 degrees from the plane of the ceiling and should be taut without causing the ceiling to lift. Sploes in bracing wires are not to be permitted. See 6 9
7. Fasten hanger wires with not less than 3 tight turns. Fasten bracing splay wires with 4 tight turns. Make all tight turns within a distance of 1-1/2 inches. 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.
8. Separate all ceiling hanging and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc. It is acceptable to attach lightweight items, such as single electrical conduit not exceeding 3/4" nominal diameter, to hanger wires using connectors acceptable to U.B.C.
9. Attach all light fixtures to the ceiling grid runners to resist a horizontal force equal the weight of the fixtures.
10. Flush or recessed light fixtures and air terminals or services weighing less than 56 pounds may be supported directly on the runners of heavy duty grid system but, in addition, they must have a minimum of two 12 ga. slack safety wires attached to the fixture at diagonal corners and anchored to the structure above.

    All flush or recessed light fixtures and air terminals or services weighing 56 pounds or more must be independently supported by not less than 4 taut 12 ga. wires each attached to the fixture and to the structure above regardless of the type of ceiling grid system used.

    The 4 taut 12 ga. wires including their attachment to the structure above must be capable of supporting 4 times the weight of the unit.
11. All fixtures and air terminals or services supported on intermediate duty grid systems must be independently supported by not less than 4 taut 12 ga. wires each attached to the fixture or terminal and to the structure above.
12. Support surface mounted light fixtures by at least two positive devices which surround the ceiling runner and which are each supported from the structure above by a 12 ga. wire. Spring clips or clamps that connect only to the runner are not acceptable. Provide additional supports when light fixtures are 8 feet or longer.
13. Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 4 times the weight of the fixture.
14. Lay-in ceiling assemblies in exitways shall be installed with a main runner or cross runner surrounding all sides of each piece of tile board or panel and each light fixture or grill splices and intersections of such runners shall be attached with through connectors such as pop rivets, screws, pins, plates with bent tabs or by other approved connectors. Expansion joints shall be provided in the ceiling at intersections of corridors and at junctions of corridors and lobbies or other similar areas.
15. Gypboard suspended ceiling systems shall comply with Title 24, CCR, and gypboard ceilings should not support materials or building components other than grills, light fixtures, small electrical conduits, small ducts and the like. All such components should be supported either directly from main runners, or by supplemental framing which is supported by main runners.
16. Suspended acoustical ceiling systems shall comply with 2016 CBC (2015 IBC), ASTM C635, ASTM C636, CISCA (FOR SEISMIC ZONES 3 & 4), AND ASCE 7.05. No vertical loads other than gypboard dead load should be applied to cross-furring.

GENERAL CEILING NOTES:

ALL WORK SHALL COMPLY WITH 2016 CBC (2015 IBC), ASTM C635, ASTM C636, CISCA (FOR SEISMIC ZONES 3 & 4), AND ASCE 7.05. PARTICULAR ATTENTION IS DIRECTED TO INDEPENDANT SUSPENSION OF FIXTURES, DUCTS, DIFFUSERS, GRID INTERSECTIONS, SPLICES, PERIMETER DETAILS AND SEISMIC REQUIREMENTS.

NOTES:
(1). The 2x4 sub-purlins, located in the roof in a typical type tilt-up structure, are not considered to be structural members.
(2). The strut shall be vertical, and shall not hang more than 1 in 6 out-of- plumb.
(3). Struts shall be designed in accordance with chapter 22 Steel, 2016 Edition of the California Building Code (2015 IBC).

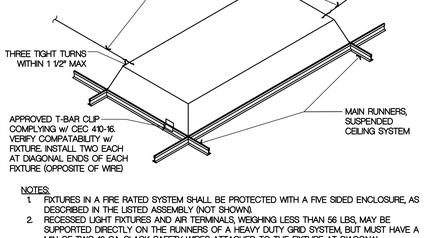
PIPE:

ACCEPTABLE STRUT SIZES AND LENGHTS

TRADE SIZE	ALLOWABLE LENGTH	
	EMT	IMC or RMC
1/2"	3'-10"	4'-4"
3/4"	5'-2"	5'-7"
1"	6'-6"	7'-2"
1 1/4"	8'-6"	9'-0"
1 1/2"	9'-10"	10'-5"
2"	—	13'-2"

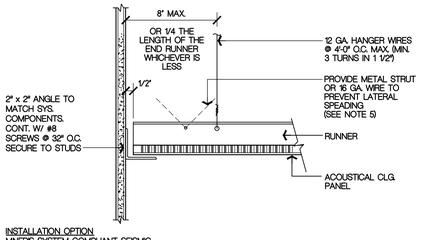
EMT - Electrical Metallic Tubing
IMC - Intermediate Metal Conduit
RMC - Rigid Metal Conduit

SUSPENDED CEILING NOTES — SCALE: NTS — A902 (3)

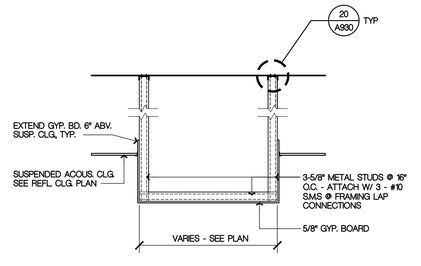


NOTES:
1. FIXTURES IN A FIRE RATED SYSTEM SHALL BE PROTECTED WITH A FIVE SIDED ENCLOSURE, AS DESCRIBED IN THE LISTED ASSEMBLY (NOT SHOWN).
2. RECESSED LIGHT FIXTURES AND AIR TERMINALS, WEIGHING LESS THAN 56 LBS, MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT MUST HAVE A MIN OF TWO 12 GA. SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
3. ALL FIXTURES WEIGHING 56 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR TAUT 12 GA. WIRES EACH ATTACHED TO THE STRUCTURE ABOVE. ALL FIXTURES SUPPORTED ON INTERMEDIATED GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED AS DESCRIBED ABOVE.

SUSPENDED CEILING FIXTURE SUPPORT — N.T.S. — A902 (12)



SUSPENDED ACOUSTICAL CEILING SLIP JOINT AT WALL — SCALE: 3"=1'-0" — A902 (8)



SOFFIT DETAIL — SCALE: 1/2"=1'-0" — A902 (4)

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LICENSE STAMPS

LICENSED ARCHITECT — KYLE MATTHEW — C 27504 — REN. 10/31/25 — STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

CEILING DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

A902

Login Name: KleinP
Plot Date: February 13, 2025 - 9:43 am
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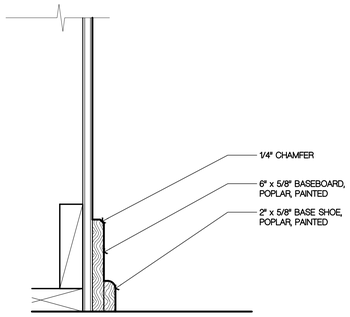
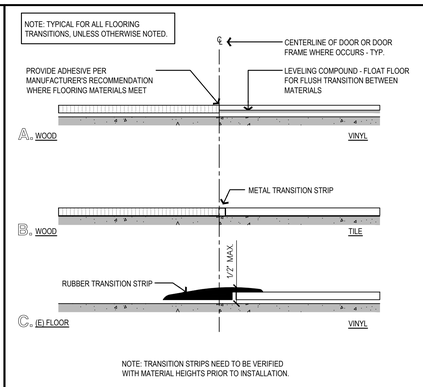


21-6497

WOOD BASE 9

SCALE: 3" = 1'-0"

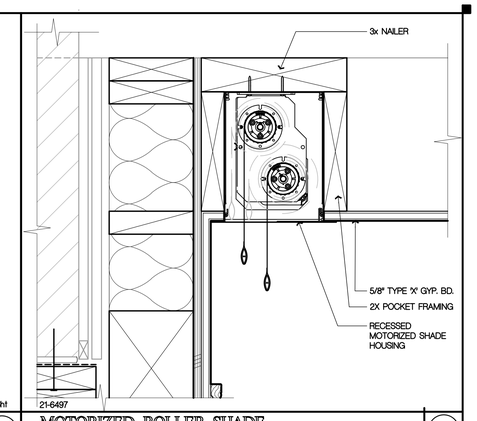


xx~xxxx

Sht

TRANSITION STRIPS 5

SCALE: 12" = 1'-0"



21-6497

MOTORIZED ROLLER SHADE 1

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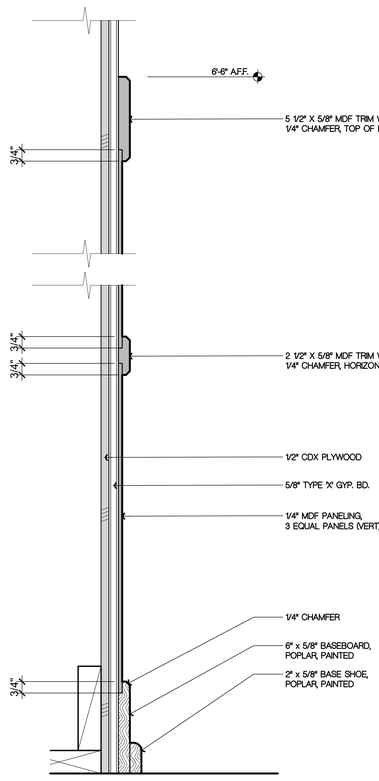
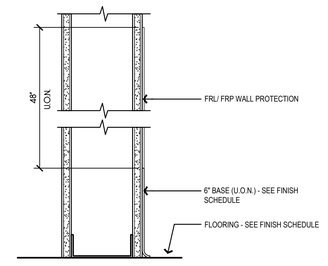


21-6497

WOOD PANELING 11

SCALE: 3" = 1'-0"



FRL / FRP WALL PROTECTION 6

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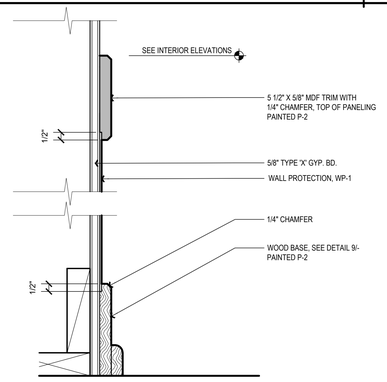

WALL PROTECTION 7

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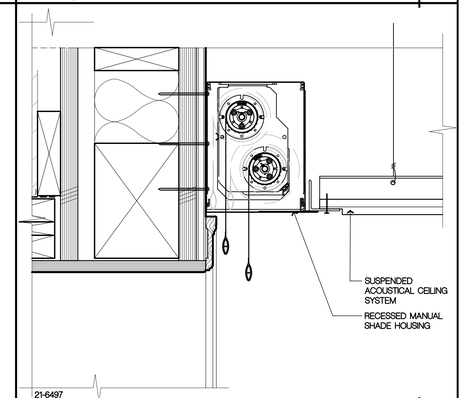

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MANUAL ROLLER SHADE 2

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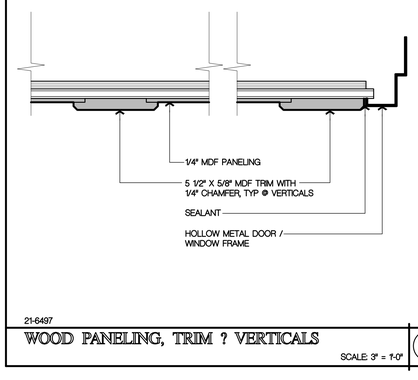
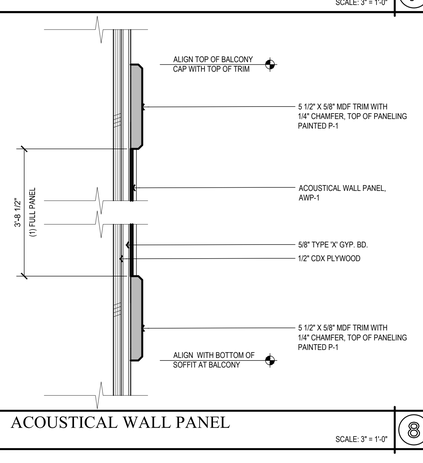


21-6497

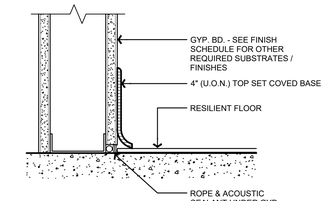
WOOD PANELING, TRIM ? VERTICALS 12

SCALE: 3" = 1'-0"



ACOUSTICAL WALL PANEL 8

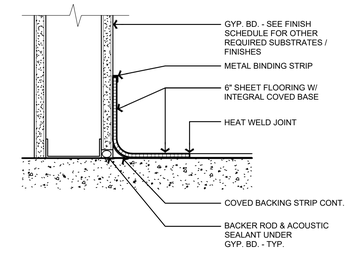
SCALE: 3" = 1'-0"



21-6497

TOP SET AT RESILIENT FLOORING 4

SCALE: 3" = 1'-0"



21-6497

INTEGRAL COVED BASE 3

SCALE: 3" = 1'-0"

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KYLE MATTHEW KLEIN
C 27504
REN. 10/31/25
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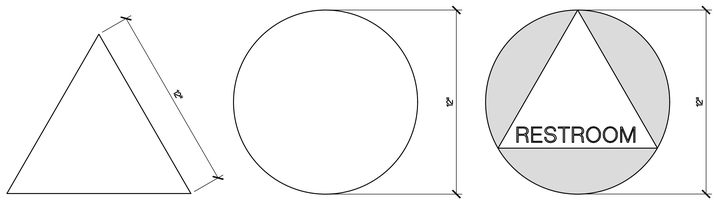
Project No.	21-6497

SHEET No.

A910



IDENTIFYING SYMBOLS CENTERED ON THE DOOR 58" MIN. - 60" MAX. A.F.F. (CBC 11B-703.7.2.6) IN A COLOR AND 70% MIN. CONTRAST DIFFERENT FROM THE DOOR.

MENS FACILITY DOORS SHALL HAVE AN EQUILATERAL TRIANGLE 1/4" THICK W/ 12" SIDES AND A VERTEX POINTING UPWARDS.

WOMENS FACILITY DOORS SHALL HAVE A 12" CIRCLE 1/4" THICK.

UNISEX FACILITY DOORS SHALL HAVE A 12" DIAMETER CIRCLE 1/4" THICK AND A 1/4" THICK TRIANGLE INSCRIBED AND SUPERIMPOSED ON THE CIRCLE. CIRCLE SHALL BE A COLOR TO CONTRAST BOTH DOOR & TRIANGLE.

AS OF MARCH 1, 2017 - ALL SINGLE USER TOILET FACILITIES IN ANY BUSINESS ESTABLISHMENT, PLACE OF PUBLIC ACCOMMODATION, OR STATE OR LOCAL GOVERNMENT AGENCY SHALL BE IDENTIFIED AS ALL-GENDER FACILITIES BY SIGNAGE THAT COMPLIES WITH TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS, AND DESIGNATED FOR USE BY NO MORE THAN ONE OCCUPANT AT A TIME OR FOR FAMILY OR ASSISTED USE (HEALTH AND SAFETY CODE SECTION 118600).

A TOILET ROOM DOOR SYMBOLS

3"=1'-0"

PROVIDE RESTROOM SIGNAGE AS REQUIRED ON THE DOOR SCHEDULE.

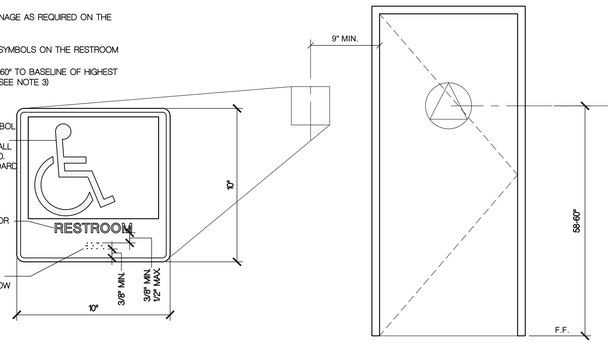
IN ADDITION TO THE 12" SYMBOLS ON THE RESTROOM DOORS PROVIDE:

SIGNAGE MOUNTED AT +60" TO BASELINE OF HIGHEST RAISED TEXT, ON WALL (SEE NOTE 3)

6" HIGH RAISED WHEELCHAIR LOGO, SYMBOL TO BE WHITE ON BLUE BACKGROUND (BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.

3/4" HIGH MEN, WOMEN OR RESTROOM TEXT FOR UNISEX. (SEE NOTE 1)

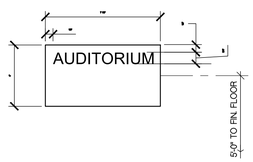
CONTRACTED GRADE #2 BRAILLE CENTERED BELOW TEXT (SEE NOTE 4)



(SHOWN ABOVE)

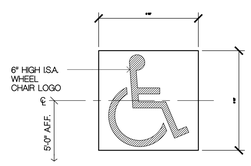
B ACCESSIBLE TOILET ROOM SIGN

3"=1'-0"



C ROOM IDENTIFICATION SIGN

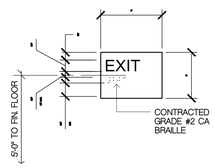
3"=1'-0"



D ACCESSIBLE ENTRANCE IDENTIFICATION

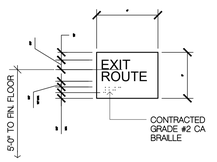
3"=1'-0"

*STICKER AT GLAZING WHEN SIGN OCCURS AT DOOR WITH A SIDELIGHT



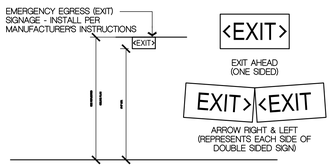
E EXIT SIGN

3"=1'-0"



F EXIT ROUTE

3"=1'-0"



ILLUMINATED EXIT SIGN

1/4" = 1'-0"

SIGNAGE TYPES GENERAL NOTES

1. WHERE VISUAL IDENTIFICATION (SIGNAGE) IS PROVIDED FOR ROOMS OR SPACES, RAISED LETTERS (RAISED 1/32") SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE WITH THE FOLLOWING CONTRACTED GRADE 2 BRAILLE SHALL BE USED AND SHALL COMPLY WITH CBC SECTIONS 11B-703.3 AND 11B-703.4.
   - 1.1. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE, CBC 11B-703.3.1.
   - 1.2. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. BRAILLE SHALL BE PLACED BELOW ENTIRE TEXT AND SEPARATED 3/8" MIN. AND 1/2" MAX. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
   - 1.3. BRAILLE DIMENSIONS PER CBC TABLE 11B-703.3.1:
     - 1.3.1. DOT BASE DIA SHALL BE .059" - .063".
     - 1.3.2. DISTANCE BETWEEN TWO DOTS IN THE SAME CELL SHALL BE .100"
     - 1.3.3. DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS SHALL BE .300"
     - 1.3.4. DOT HEIGHT SHALL BE .025" - .037"
     - 1.3.5. DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW SHALL BE .395" TO .400"
2. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE THE DOOR. WHERE THERE IS NO SPACE ON THE LATCH SIDE, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLE ON THE RIGHT.
3. MOUNTING HEIGHT SHALL BE 60" MAX. ABOVE THE FINISH FLOOR TO THE BASELINE OF HIGHEST RAISED CHARACTERS U.N.O. (CBC 11B-703.4.1). SIGNS WITH RAISED TEXT SHALL NOT BE DOOR MOUNTED.
4. OBSTRUCTIONS: A PERSON MUST BE ABLE TO APPROACH WITHIN 3" OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING (SITTING) WITHIN SWING OF DOOR.
5. ACTUAL SIGN DESIGN AND DIMENSIONS SHALL BE PROVIDED BY CONTRACTOR (OR SUB-CONTRACTOR) IN COORDINATION WITH OWNERS REPRESENTATIVE.
6. SIGNS TO BE A.D.A. / C.B.C. COMPLIANT.
7. SIGN TEXT TO BE CONTRASTING COLOR TO SIGN FIELD.
8. PROVIDE BLANK SIGN ON OPPOSITE SIDE OF GLASS TO COVER SIGN MOUNTING WHEN SIGN IS MOUNTED TO SIDELIGHT OR WINDOW.
9. ILLUMINATED EMERGENCY EGRESS SIGN NOTES:
   - 9.1. INTERNALLY ILLUMINATED EXIT SIGNS SHALL COMPLY WITH 2016 CBC SECTION 1013.5
   - 9.2. EXTERNALLY ILLUMINATED EXIT SIGNS SHALL COMPLY WITH 2016 CBC SECTION 1013.6
   - 9.3. TEXT SHALL BE PLAINLY LEGIBLE LETTERS
   - 9.4. MINIMUM TEXT HEIGHT TO BE 6" MIN. WITH PRINCIPAL STROKE OF 3/4" MIN. AND SPACING BETWEEN LETTERS TO BE 3/8" MIN.
   - 9.5. IF A DIRECTIONAL INDICATOR (ARROW) IS PROVIDED, THE CONSTRUCTION WILL BE AS SUCH THAT THE INDICATOR CAN NOT BE READILY CHANGED
   - 9.6. SIGN TEXT WILL BE IN HIGH CONTRAST WITH THE BACKGROUND PER 2016 CBC SECTION 1013.6.1
   - 9.7. ALL EXIT SIGNS WILL BE ILLUMINATED AT ALL TIMES.
10. SEE ELECTRICAL PLANS FOR ADDITIONAL EMERGENCY EXIT LIGHT INFORMATION AND LOCATION.

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CONSULTANTS

LICENSE STAMPS

LICENSED ARCHITECT KYLE MATTHEWS C 27504 REN. 10/31/25 STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SIGNAGE DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	KP
Date Issued	2/13/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

A960

Login Name: KennyP
Plot Date: February 13, 2025 - 9:44 am
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ARCH D + CVH_L File Base:

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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FIRST FLOOR - FINISH FLOOR PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

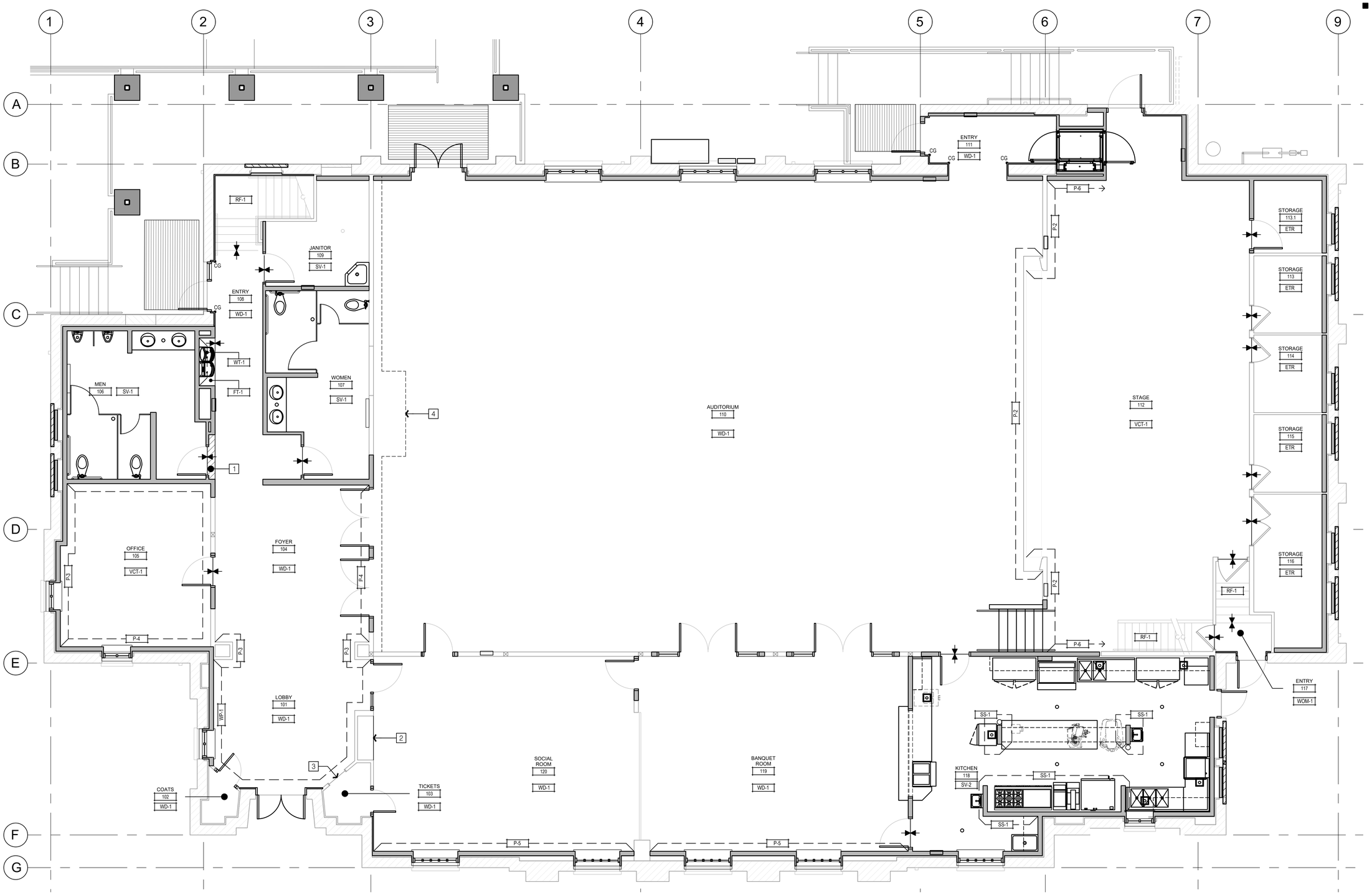
REVISIONS

Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	10/15/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

ID201



GENERAL FINISH NOTES

1. NO SUBSTITUTIONS WILL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM ARCHITECT / DESIGNER.
2. RESILIENT WALL BASE SHALL BE ROLL GOODS IN THE SPECIFIED HEIGHT AND PROFILE.
3. THIS SHEET TO BE USED IN CONJUNCTION WITH THE FINISH SCHEDULE, FURNISHINGS MANUAL, AND PROJECT MANUAL.
4. CONTRACTOR SHALL PROVIDE ATTIC STOCK TO OWNER IN INCREMENTS INDICATED IN PROJECT MANUAL.
5. FOR ALL PRODUCTS INSTALLED, NOTE INDUSTRY STANDARDS AND MANUFACTURER SPECIFICATIONS FOR INSTALLATION.
6. DO NOT PAINT ANY FACTORY FINISHED ITEMS.
7. MISCELLANEOUS METAL, I.E. RETURN AND AIR SUPPLY, GRILLES, EXPANSION JOINTS, ETC. SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACE.
8. ALL INTERIOR FINISHES SHALL MEET CLASS A FLAME SPREAD RATING OF 25 OR LESS AND SHALL HAVE A SMOKE DEVELOPMENT OF 250 OR LESS.
9. ALL FLOOR REDUCER / THRESHOLDS SHALL BE LOCATED AT THE CENTER OF DOOR WHEN IN CLOSED POSITION AND MEET ACCESSIBILITY REQUIREMENTS. REFER TO SHEET AE571.00 FOR DETAILS.
10. ALL INTERIOR FLOORING SHALL MEET CLASS I AND CLASS II.
11. CAULK ALL DOORS, FRAMES AND MILLWORK. COLOR TO MATCH ADJACENT SURFACE.
12. ALL SURFACES TO BE PAINTED SHALL RECEIVE TWO COATS. PREP SURFACE PER PAINT MANUFACTURER'S RECOMMENDATIONS. ALL METAL TRIM AND SASH SHALL RECEIVE TWO COATS OF PAINT OVER MANUFACTURER RECOMMENDED PRIMER COAT. ALL APPLICATIONS SHALL USE MANUFACTURER RECOMMENDED EXTENDER AGENTS IN ORDER TO REDUCE BRUSH MARKS.
13. ALL COLORS SHALL BE AS PER THE FINISH SCHEDULE UNLESS WRITTEN APPROVAL FROM THE ARCHITECT/ DESIGNER.
14. THE WORD "CLEAR" INDICATES CRITICAL DIMENSIONS FOR ACCESSIBILITY EQUIPMENT OR FUNCTIONAL CLEARANCES FROM FACE OF FINISH TO FACE OF FINISH.
15. THRESHOLDS AT DOORWAYS AND TRANSITION STRIPS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
16. TURN OVER EXISTING FURNITURE TO OWNER IN AREAS WHERE FURNITURE IS REPLACED WITH NEW.
17. ARROWS ON FLOOR PATTERN PLANS INDICATE DIRECTION OF LONG SIDE FLOORING PRODUCTS.
18. FRAME OF DOOR LITE SHALL BE PAINTED TO MATCH ADJACENT DOOR FINISH.
19. GROUT JOINT FROM FLOOR TILE TO WALL TILE TO ALIGN WHERE POSSIBLE.

LEGEND

- FINISH — FINISH TAG
- DIRECTION OF FINISH MATERIAL
- FINISH TRANSITION. SEE DETAIL 5/A910.
- FINISH — LOCATION OF ACCENT PAINT

KEYNOTES

1. NEW WOOD FLOOR TO MATCH ADJACENT EXISTING.
2. PAINT (E) BUILT-IN BOOKCASE, P-2 TO MATCH ADJACENT DOOR FRAMES.
3. PAINT (E) FRAME AND DOORS, PAINT P-2.
4. (E) CORBELS TO BE PAINTED, P-1

FIRST FLOOR - FINISH FLOOR PLAN

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

Login Name: ValerieS
Plot Date: October 21, 2025 - 10:58 am
File Name: N:\Projects\6000\Cad\v2025\21-6497 Tehama Co. Corning Vets Hall\Drawings\CA\1 - ID201 Finish Floor Plan.dwg
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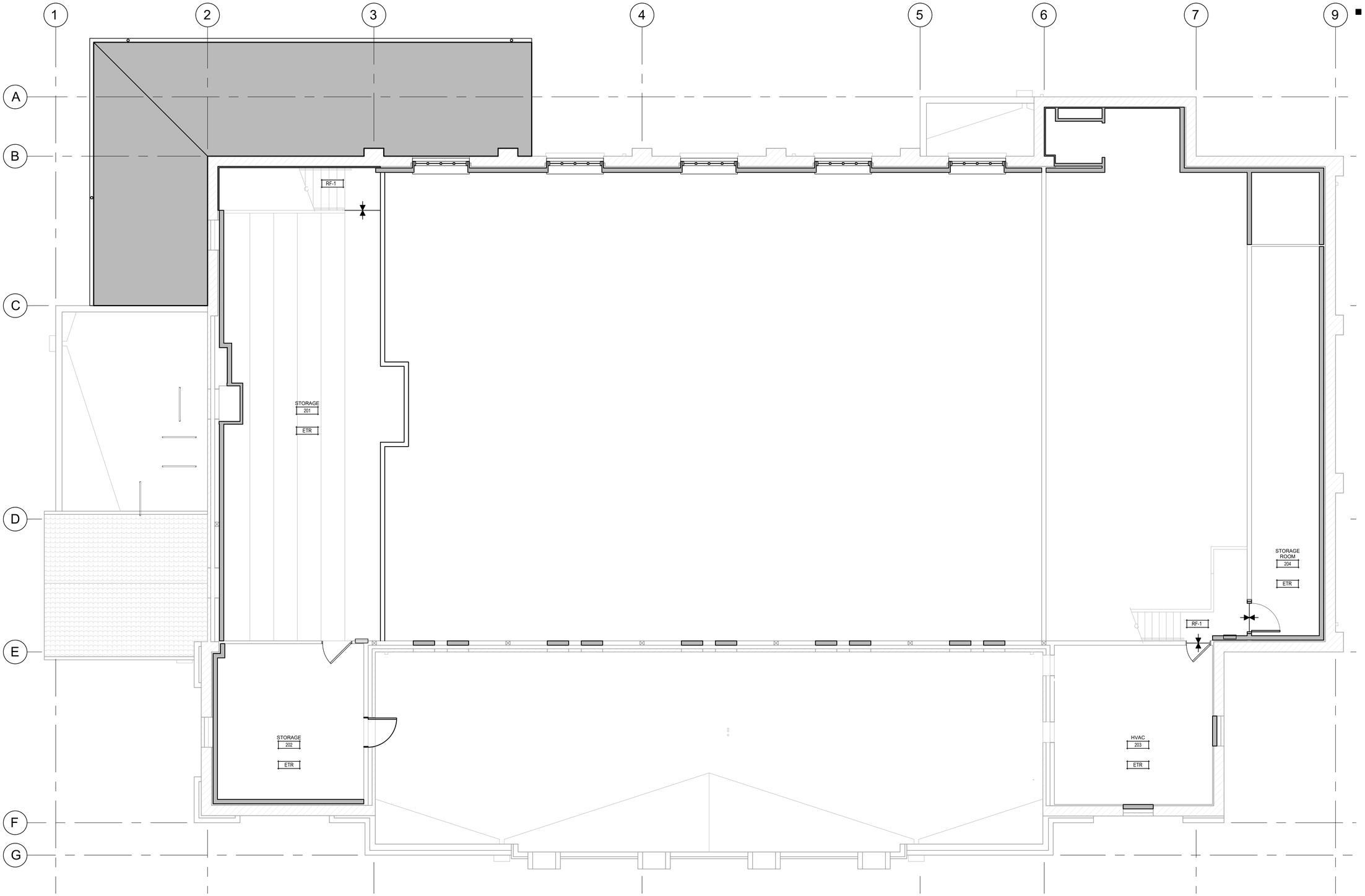

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LEGEND

- FINISH TAG
- DIRECTION OF FINISH MATERIAL
- FINISH TRANSITION
- LOCATION OF ACCENT PAINT

KEYNOTES

SECOND FLOOR - FINISH FLOOR PLAN

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

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CONSULTANTS

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PROJECT NAME

TEHAMA COUNTY
CORNING
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1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SECOND FLOOR - FINISH FLOOR PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NGG/KP
Date Issued	10/15/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

ID202

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ABBREVIATIONS

A.B.	ANCHOR BOLTS	GA.	GAGE	PLCS.	PLACES
ABT.	ABOUT	GALV.	GALVANIZED	PLY.	PLYWOOD
ADDL.	ADDITIONAL	GL	GLU-LAMINATED	PL.	PLATE
ADJ.	ADJACENT	G/N	GANG-NAIL	P.M.D.	PLY-METAL DRILLERS
AGGR.	AGGREGATE	GYP.	GYPSUM	PREFAB.	PRE-FABRICATED
ANC.	ANCHOR			PARA.	PARALLEL
APPROX.	APPROXIMATE	HCAI	CALIFORNIA DEPARTMENT OF	PSF	POUNDS PER SQUARE FOOT
APVD.	APPROVED		HEALTH CARE ACCESS AND	PSI	POUNDS PER SQUARE INCH
ARCH.	ARCHITECT		INFORMATION	PSL	PARALLEL STRAND LUMBER
ASPH.	ASPHALT	HD.	HOLDDOWN	P/T	POST TENSIONING
		HDR.	HEADER	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
BD.	BOARD	HORIZ.	HORIZONTAL		
BLDG.	BUILDING	HSA	HEADED STUD ANCHOR	RAD, R.	RADIUS
BLK.	BLOCK	H.S.B.	HIGH STRENGTH BOLTS	REF.	REFERENCE, REFER TO
BLK'G.	BLOCKING	HSS	HOLLOW STRUCTURAL SECTION	REINF.	REINFORCING
BM.	BEAM	HT.	HEIGHT	REBAR	REINFORCING STEEL BAR
B.N.	BOUNDARY NAIL			REQ'D.	REQUIRED
BOT.	BOTTOM	I.D.	INSIDE DIAMETER	REV.	REVISED, REVISION
B.O.	BOTTOM OF	I.F.	INSIDE FACE	RF	ROOF
BRNG.	BEARING	IN.	INCH	R.H.W.S.	ROUND HEAD WOOD SCREWS
BTWN.	BETWEEN	INT.	INTERIOR	RM.	ROOM
				RS	ROUGH SAWN
CANTIL.	CANTILEVER	JST.	JOIST		
CBC	CALIFORNIA BUILDING CODE	JT.	JOINT	S	SNOW LOAD
C.J.	CONTROL JOINT			S.A.D.	SEE ARCHITECTURAL DRAWING
CLG.	CEILING	K	KIP, KILO-POUND	SCHED.	SCHEDULE
CL.	CENTERLINE			SDS	SIMPSON 'STRONG DRIVE SCREW'
CLR.	CLEAR	L	ANGLE	SECT.	SECTION
CMU	CONCRETE MASONRY UNIT	LB	POUND	SHT.	SHEET
COL.	COLUMN	LL	FLOOR LIVE LOAD	SHT'G.	SHEATHING
CONC.	CONCRETE	Lr	ROOF LIVE LOAD	SIM.	SIMILAR
CONN.	CONNECTION	L.L.H.	LONG LEG HORIZONTAL	S.O.G.	SLAB ON GRADE
CONST.	CONSTRUCTION	L.L.V.	LONG LEG VERTICAL	SPEC.	SPECIFICATION
CONT.	CONTINUOUS	LOCS.	LOCATIONS	SQ.	SQUARE
CSK.	COUNTERSINK	LONGL.	LONGITUDINAL	STD.	STANDARD
		LT.WT.	LIGHT WEIGHT	STIFF.	STIFFENER
D	DEAD LOAD	LSL	LAMINATED STRAND LUMBER	STL.	STEEL
DBL.	DOUBLE	LVL	LAMINATED VENEER LUMBER	STRUCT.	STRUCTURAL
DET.	DETAIL			S.T.S.	SELF-TAPPING SCREW
D.F.L.	DOUGLAS FIR, LARCH	MACH.	MACHINE	S.W.	SHEAR WALL
DIA.	DIAMETER	MAT'L.	MATERIAL	SYM.	SYMMETRICAL
DIAG.	DIAGONAL	MAX.	MAXIMUM		
DIM.	DIMENSION	M.B.	MACHINE BOLT	T.&B.	TOP & BOTTOM
DML.	DEMOLISH, DEMOLITION	MECH.	MECHANICAL	T.&G.	TONGUE & GROOVE
DO.	REPEAT	MEZZ.	MEZZANINE	THK.	THICK
DP.	DEEP	MFR.	MANUFACTURER	T.N.	TOE NAIL
DWG.	DRAWING	MIN.	MINIMUM	T.O.F.	TOP OF FOOTING
DSA	DIVISION OF THE STATE	MISC.	MISCELLANEOUS	T.O.PL.	TOP OF PLATE
	ARCHITECT	M.I.W.	MALLEABLE IRON WASHER	T.O.S.	TOP OF SLAB
		MTL.	METAL	T.O.SHTG.	TOP OF SHEATHING
(E)	EXISTING			T.O.STL.	TOP OF STEEL
EA.	EACH	(N)	NEW	TRANS.	TRANSVERSE
E.F.	EACH FACE	NO.	NUMBER	TS	TUBE STEEL, SEE 'HSS'
ELEV.	ELEVATION OR ELEVATOR	NOM.	NOMINAL	TYP.	TYPICAL
EMBED.	EMBEDMENT	N.S.A.	NELSON STUD ANCHOR		
E.N.	END NAIL OR EDGE NAIL	N.T.S.	NOT TO SCALE	U.O.N.	UNLESS OTHERWISE NOTED
ENG.	ENGINEER				
E.W.	EACH WAY	O/	OVER	VERT.	VERTICAL
EXT.	EXTERIOR	O.C.	ON CENTER		
		O.D.	OUTSIDE DIAMETER	W.P.	WORK POINT
FDN.	FOUNDATION	O.F.	OUTSIDE FACE	W/	WITH
F.F.	FINISH FLOOR	O.H.	OPPOSITE HAND	W/O	WITHOUT
F.G.	FINISH GRADE	OPN'G.	OPENING	W, WF	WIDE FLANGE STEEL SECTION
FLR.	FLOOR	OPP.	OPPOSITE	W.W.F.	WELDED WIRE FABRIC
F.N.	FIELD NAIL	ORIG.	ORIGINAL		
F.O.C.	FACE OF CONCRETE	O.S.B.	ORIENTED STRAND LUMBER	&	AND
F.O.M.	FACE OF MASONRY			@	AT
F.O.S.	FACE OF STUD	O.W.G.	OPEN WEB GIRDER	X	BY
FRMG.	FRAMING	O.W.J.	OPEN WEB JOIST	=	EQUALS
FT.	FOOT	O.W.T.	OPEN WEB TRUSS	#	POUNDS, NUMBER
FTG.	FOOTING				
FURR.	FURRING	P.A.F.	POWDER ACTUATED FASTENER		
		PEN.	PENETRATION		
		PERP.	PERPENDICULAR		

NAILING SCHEDULE: TABLE 2304.10.2

	CONNECTION	NAILING
1.	BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW, TOENAIL	3- 8d
	BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE TO RAFTER OR TRUSS, TOENAIL	2- 8d
	FLAT BLOCKING TO TRUSS AND WEB FILLER, FACE NAIL	10d @ 6" O.C.
2.	CEILING JOISTS TO PLATE, TOENAIL	3- 8d
3.	CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3- 16d
4.	CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	TABLE 2308.7.3.1
5.	COLLAR TIE TO RAFTERS, FACE NAIL	3- 10d
6.	RAFTERS OR TRUSS TO PLATE, TOE NAIL	3- 10d
7.	ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS, TOE NAIL	3- 10d
8.	STUD TO STUD, FACE NAIL	10d @ 6" O.C.
9.	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS, FACE NAIL	16d @ 16" O.C.
10.	BUILT-UP HEADER, FACE NAIL	16d @ 16" O.C.
11.	CONTINUOUS HEADER TO STUD, TOE NAIL	4- 8d
12.	TOP PLATE TO TOP PLATE, FACE NAIL	16d @ 16" O.C.
13.	TOP PLATE TO TOP PLATE, AT END JOINTS	8- 16d EA. SIDE OF SPLICE, U.O.N.
14.	SILL PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING, FACE NAIL	16d @ 16" O.C.
15.	SILL PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANEL, FACE NAIL	2- 16d @ 16" O.C.
16.	STUD TO TOP OR SILL PLATE	4- 8d, TOENAIL OR 2- 16d, END NAIL @ 2X PL. 2- 40d, END NAIL @ 3X PL.
17.	TOP OR SILL PLATE TO STUD	2- 16d, END NAIL @ 2X PL. 2- 40d, END NAIL @ 3X PL.
18.	TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	2- 16d
19.	1" BRACE TO EACH STUD & PLATE, FACE NAIL	2- 8d
20.	1" X 6" SHEATHING TO EACH BEARING, FACE NAIL	2- 8d
21.	1" X 8" AND WIDER SHEATHING TO EACH BEARING, FACE NAIL	3- 8d
22.	JOIST TO SILL, TOP PLATE OR GIRDER, TOE NAIL	3- 8d
23.	RIM JOIST, BAND JOIST OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW, TOE NAIL	8d @ 6" O.C.
24.	1" X 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2- 8d
25.	2" SUBFLOOR TO JOIST OR GIRDER, FACE NAIL	2- 16d
26.	2" PLANKS (PLANK & BEAM - FLOOR & ROOF), EA. BEARING, FACE NAIL	2- 16d
27.	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS, FACE NAIL	10d @ 24" O.C. AT TOP & BOT. STAGGERED ON OPPOSITE SIDES
28.	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS, EA. JOIST OR RAFTER, FACE NAIL	3- 16d
29.	JOIST TO BAND JOIST OR RIM JOIST, END NAIL	3- 16d
30.	BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS, EA. END, TOE NAIL	2- 8d

ALL NAILS SHALL CONFORM TO GENERAL NOTE 6.1.4, U.O.N.

GENERAL NOTES

1. GENERAL:

1.1 ALL PHASES OF THE WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2022 EDITION OF TITLE 24, PART 2, CALIFORNIA BUILDING CODE.

1.2 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS AT THE JOB SITE PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES OR INCONSISTENCIES FOUND SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE WORK PROCEEDS.

1.3 THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE INDICATED, THEY DO NOT SPECIFY METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS AND PRECAUTIONS TO MAINTAIN THE STABILITY OF THE STRUCTURE AND PROTECT WORKMEN AND OTHER PERSONS DURING CONSTRUCTION. SPECIFIC ITEMS TO BE CONSIDERED SHALL INCLUDE, BUT NOT BE LIMITED TO, THE ADEQUACY OF ALL FORMS, SCAFFOLDING, AND SHORING FOR CONSTRUCTION EQUIPMENT SHORING OF RETAINING WALLS, AND TEMPORARY LATERAL BRACING OF THE STRUCTURE.

1.4 OPENINGS, POCKETS, SUBSTANTIAL EMBEDDED ITEMS, ETC., SHALL NOT BE PLACED IN SLABS, COLUMNS BEAMS, OR OTHER STRUCTURAL MEMBERS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

1.5 ASTM SPECIFICATIONS AND IBC STANDARDS REFERENCED IN THESE DRAWINGS SHALL BE AS LISTED IN 2022 CBC CHAPTER 35.

1.6 IF CERTAIN MINOR DETAILS OF CONSTRUCTION ARE NOT FULLY DESCRIBED ON THE DRAWINGS OR CALLED FOR IN NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL RESEMBLE SIMILAR CONDITIONS THAT ARE FULLY SHOWN AND SHALL BE REVIEWED BY THE ARCHITECT.

1.7 THE DESIGN OF THIS STRUCTURE ARE BASED ON THE FOLLOWING LOAD CRITERIA AS PRESCRIBED IN CBC CHAPTER 16:

FLOOR LOADS:

MEZZANINE
UNIFORM DEAD LOAD OF 16 PSF WITHOUT STL. FRM'G. (INCLUDED IN DESIGN)
UNIFORM LIVE LOAD OF 40 PSF
REDUCTIONS ARE BASED ON SECTION 1607.12 OF THE CBC

DRESSING ROOM BEHIND STAGE
UNIFORM DEAD LOAD OF 20 PSF WITHOUT STL. FRM'G. (INCLUDED IN DESIGN)
UNIFORM LIVE LOAD OF 150 PSF
REDUCTIONS ARE BASED ON SECTION 1607.12 OF THE CBC

ROOF LOADS:
UNIFORM DEAD LOAD OF 23 PSF AT MAIN BUILDING HIGH ROOF (EXCLUDES SELF WEIGHT OF TRUSSES)
UNIFORM DEAD LOAD OF 20 PSF AT MAIN BUILDING LOW ROOF
UNIFORM DEAD LOAD OF 23 PSF AT MAIN BUILDING TOWER ROOF (EXCLUDES SELF WEIGHT OF TRUSSES)
UNIFORM DEAD LOAD OF 18 PSF AT MAIN ENTRY ROOF (EXCLUDES HSS SELF WEIGHT))
UNIFORM DEAD LOAD OF 20 PSF AT BACK ENTRY ROOF (EXCLUDES HSS SELF WEIGHT)
UNIFORM LIVE LOAD OF 20 PSF
REDUCTIONS ARE BASED ON SECTION 1607.14 OF THE CBC

WIND DESIGN CRITERIA:
WIND DESIGN METHOD = DIRECTIONAL PROCEDURE
3 SECOND GUST = 100 MPH, EXPOSURE C, RISK CATEGORY III

SEISMIC DESIGN CRITERIA:
RISK CATEGORY III, SITE CLASS D, DESIGN CATEGORY D, I = 1.25, Ip = 1.5, S_s = 0.796, S_1 = 0.357, S_{DS} = 0.637, S_{D1} = 0.476

FRONT AND BACK ENTRY ADDITIONS
SEISMIC FORCE RESISTING SYSTEM = STEEL SPECIAL CANTILEVER COLUMN SYSTEMS
R = 2.5, Ω_0 = 1.25, C_d = 2.5, BASE SHEAR COEFF. = 0.32
ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE

1.8 MISCELLANEOUS: NON-SHRINK GROUT: A NON-METALLIC GROUT MEETING THE ARMY CORPS OF ENGINEERS SPECIFICATION CRD-C621, WITH NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET, TESTED IN ACCORDANCE WITH ASTM C827, MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AFTER 24 HOURS AND 5000 PSI AT 28 DAYS. ACCEPTABLE PRODUCTS INCLUDE:

A. SURE-GRIP NON-FERROUS, NON-SHRINK GROUT BY DAYTON SUPERIOR, MIAMISBURG, OH.
B. MASTERFLOW 928 GROUT BY MASTER BUILDERS, SHAKOPEE, MN.
C. EUCO NS GROUT BY THE EUCLID CHEMICAL COMPANY, CLEVELAND, OHIO.

1.9 PRODUCTS USED IN PROJECT ARE BASED ON THE FOLLOWING REPORTS:

REPORT NAME	REPORT NO.	REPORT DATE
ASC STEEL ROOF DECK	ER-0161	06/06/2022

2. FOUNDATION:

2.1 FOUNDATION DESIGN BASED ON THE BEARING CAPACITIES LISTED IN TABLE 1806.2 OF THE 2022 CBC:

VERTICAL ALLOWABLE BEARING PRESSURE: q_{all} = 2000 PSF.

LATERAL BEARING PRESURE: $p_{psf/ft}$ = 150 PSF PER FOOT OF DEPTH BELOW ADJACENT SOIL SURFACE.

LATERAL SLIDING RESISTANCE: COEFFICIENT OF FRICTION = 0.25

FOUNDATIONS SHALL BE EMBEDDED A MINIMUM OF 12 INCHES BELOW ADJACENT FINISHED GRADE OR BUILDING PAD SUBGRADE, WHICHEVER IS LOWER.

3.1 CONCRETE:

3.1.1 PORTLAND CEMENT SHALL CONFORM TO ASTM C150-04, TYPE II OR II-LOW ALKALI. AGGREGATES SHALL CONFORM TO ASTM C33 PER THE CALIFORNIA BUILDING CODE. MAXIMUM AGGREGATE SIZE FOR FOOTINGS AND MASS CONCRETE SHALL NOT EXCEED 1-1/2". MAXIMUM AGGREGATE SIZE FOR ALL OTHER CONCRETE SHALL NOT EXCEED 1".

3.1.2 CONCRETE EXPOSED TO FREEZING AND THAWING CONDITIONS SHALL INCLUDE AIR ENTRAINMENT BASED ON ACI 318 SECTION 19.3.3.1.

3.1.3 CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNIZED TESTING LABORATORY AND COPIES OF DESIGN SENT TO THE ARCHITECT FOR REVIEW. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT AND ALL CONCRETE MIXES SHALL INCLUDE A POLYMER BASED WATER REDUCING ADMIXTURE PER ASTM C494. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.50. CONCRETE EXPOSED TO FREEZING AND THAWING SHALL HAVE REDUCED W/C RATIO IN ACCORDANCE WITH TABLE 19.3.2.1.

3.1.4 FLY ASH SHALL CONFORM TO ASTM C618, CLASS N OR F. FLY ASH SHALL NOT EXCEED 15% OF CEMENT BY WEIGHT, AND SHALL NOT EXPERIENCE A LOSS ON IGNITION OF GREATER THAN 1%.

3.1.5 SHRINKAGE AT 28 DAYS SHALL NOT EXCEED .055% FOR DRY CURING AS DETERMINED BY ASTM C157.

3.1.6 REINFORCING BARS, ANCHOR BOLTS AND CONCRETE INSERTS SHALL BE PROPERLY LOCATED AND SECURELY FASTENED IN POSITION PRIOR TO PLACING CONCRETE.

3.1.7 MAXIMUM CONCRETE SLUMP SHALL NOT EXCEED 4" FOR FOOTINGS, MASS CONCRETE, AND SLABS-ON-GRADE, AND 5" FOR OTHER CONCRETE UNLESS CONCRETE CONTAINS A MID-RANGE OR HIGH-RANGE WATER-REDUCING ADMIXTURE.

3.1.8 THE REQUIRED AVERAGE COMPRESSIVE STRENGTH (f'cr) USED AS THE BASIS FOR SELECTION OF CONCRETE PROPORTIONS SHALL BE 3500 psi FOR f'c EQUAL TO 2500 PSI UNLESS A LOWER f'cr CAN BE JUSTIFIED THROUGH BREAK HISTORY. THE REQUIRED AVERAGE COMPRESSIVE STRENGTH (f'cr) USED AS THE BASIS FOR SELECTION OF CONCRETE PROPORTIONS SHALL BE f'c + 1200 PSI FOR f'c GREATER THAN 2500 PSI UNLESS A LOWER f'cr CAN BE JUSTIFIED THROUGH BREAK HISTORY.

THE AVERAGE COMPRESSIVE STRENGTH (f'c) OF CONCRETE SHALL BE AS FOLLOWS:		PSI	DAYS
A.	LEAN CONC. FILL	1000	28
B.	SLABS-ON-GRADE	3000	28
C.	FOOTINGS	3000	28

3.1.9 PROJECTING CORNERS OF ALL CONCRETE MEMBERS SHALL BE FORMED WITH 3/4" CHAMFER UNLESS DETAILED OTHERWISE.

3.1.10 THE OUTSIDE DIAMETER (O.D) OF CONDUIT OR PIPE PLACED IN THE PLANE OF A SLAB-ON-GRADE SHALL NOT EXCEED 30% OF SLAB THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE AND SHALL BE LOCATED IN MIDDLE 1/3 OF SLAB. CLEAR SPACING BETWEEN ADJACENT CONDUITS OR PIPES SHALL BE TWICE THE LARGER O.D. MINIMUM, UNLESS OTHERWISE NOTED ON PLANS.

3.1.11 SURFACES OF JOINTS REFERENCED AS "COLD JOINTS", SHALL BE TROWELED OR OTHERWISE FINISHED SMOOTH WITH 2 LAYERS OF BUILDING PAPER BETWEEN SURFACES. ALL OTHER HORIZONTAL CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED TO 1/4" +/- AMPLITUDE BY EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MATRIX, UNLESS OTHERWISE NOTED. IN THE EVENT THAT THE CONTACT SURFACE BECOMES COATED WITH EARTH, SAWDUST, ETC., AFTER BEING CLEANED, THE ENTIRE SURFACE SO COATED SHALL BE RECLEANED.

3.1.12 EMBED OF POST INSTALLED ANCHORS SHOWN ON THE DRAWINGS ARE EFFECTIVE EMBEDS. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR REQUIRED DEPTH OF HOLE, NOMINAL EMBED AND ALL OTHER REQUIREMENTS. WHEN INSTALLING POST-INSTALLED ANCHORS IN EXISTING REINFORCED CONCRETE USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING. LOCATE THE REINFORCING BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE POST-INSTALLED ANCHOR.

3.1.13 POST INSTALLED ANCHORS SHALL BE INSTALLED A MINIMUM OF 3 BOLT DIAMETERS TO THE EDGE OF EXISTING ABANDONED OR MIS-DRILLED ANCHOR HOLES. A MINIMUM OF 1 1/2 BOLT DIAMETERS MAY BE USED PROVIDED ABANDONED OR MIS-DRILLED HOLES ARE FILLED WITH DRYPACK MORTAR.

3.2 REINFORCING STEEL:

3.2.1 REINFORCING STEEL SHALL CONFORM TO A615 GRADE 60 IN ALL CONCRETE AND MASONRY UNLESS NOTED OTHERWISE ON THE PLANS. REINFORCING STEEL THAT IS TO BE WELDED SHALL BE ASTM A706. A706 REBAR SHALL BE WELDED PER THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE.

3.2.2 CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):

A.	CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"
B.	INTERIOR STRUCTURAL SLABS, TOP AND BOTTOM	3/4"
C.	FORMED CONCRETE EXPOSED TO EARTH OR WEATHER #6 BAR OR LARGER #5 BAR AND SMALLER	 2" 1 1/2"

3.2.4 ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

3.2.5 REINFORCING BARS SHALL BE SPLICED AS SHOWN ON DRAWINGS. ANY ADDITIONAL SPLICING SHALL REQUIRE REVIEW FROM THE ENGINEER.

3.2.6 MINIMUM LAP OF REINFORCING STEEL IN CONCRETE SHALL BE PER SCHEDULE 4/S410.

5.1 STRUCTURAL STEEL:

5.1.1 STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS U.O.N.:

1. A36 W/ Fy = 36 KSI FOR ANGLES, CHANNELS, MISC CHANNELS & FLAT PLATES
2. A53 TYPE "S" GRADE "B" W/ Fy = 35 KSI FOR PIPE COLUMNS
3. A500 GRADE "C" W/ Fy = 46 KSI FOR ROUND HSS & Fy = 50 KSI FOR RECTANGULAR HSS
4. A307 MACHINE BOLTS
5. A36 OR F1554 GRADE 36 FOR THR'D ROD

ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMENDED TO DATE.

5.1.2 THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP AND ERECTION DRAWINGS OF ALL STEEL FOR THE ENGINEER'S REVIEW BEFORE FABRICATION.

5.1.3 ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS PER THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE D1.1 & D1.8, U.O.N.

5.1.4 ALL STEEL EXCEPT WHERE ENCASED IN CONCRETE SHALL BE PAINTED OR COATED WITH SPRAY APPLIED FIREPROOFING, UNLESS OTHERWISE NOTED. SEE ARCH. FOR AREAS OF FIREPROOFING.

5.1.5 STRUCTURAL STEEL FRAMING MEMBERS (EXCEPT METAL DECK, STEEL STUDS, ETC.) SHALL BE SUPPORTED DURING FIELD WELDING. SUPPORTS SHALL REMAIN IN PLACE UNTIL STEEL TEMPERATURE HAS RETURNED TO AMBIENT TEMPERATURE.

5.1.6 OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED. STEEL MEMBERS SHALL BE SHORED WHEN PERMISSIBLE HOLES ARE FLAME CUT AFTER STEEL IS ERECTED. THE SHORES SHALL REMAIN IN PLACE UNTIL STEEL TEMPERATURE HAS RETURNED TO AMBIENT TEMPERATURE.

5.1.7 STIFFENERS SHALL HAVE THE SAME WIDTH AS THE FLANGES OF THE STEEL MEMBERS UNLESS DETAILED OTHERWISE. BEARING STIFFENERS SHALL HAVE CLOSE BEARING AGAINST FLANGES PER AISC MANUAL OF STEEL CONSTRUCTION SPECIFICATIONS, CHAPTER J10.

5.1.8 BASE PLATES SHALL BE FINISHED PER AISC SPECIFICATIONS, CHAPTER M2.8. COLUMN ENDS SHALL BE FINISHED PER AISC CODE OF STANDARD PRACTICE, SECTION 6.2.2.

5.2 STRUCTURAL STEEL STUDS:

5.2.2 SELF-TAPPING SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513, ASME B18.6.4 AND ICC-ES AC 118. PENETRATIONS OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

5.3 METAL DECK:

5.3.1 METAL DECK SHALL BE AS MANUFACTURED BY ASC STEEL DECK, IAPMO APPROVAL NO. ER-0161 AND ER-0329, OR APPROVED EQUIVALENT AND SHALL BE INSTALLED PER THE ICC OR IAPMO APPROVAL.

5.3.2 METAL DECK SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653 WITH Fy = 38 KSI & SHALL BE GALVANIZED, U.O.N. TO BE PRIME PAINTED BY ARCH. UNITS SHALL BE FASTENED TO STRUCTURAL MEMBERS WITH PUDDLE WELDS OR MECHANICAL FASTENERS AT INTERVALS INDICATED ON STRUCTURAL DRAWINGS, SIDELAP OF ADJACENT UNITS SHALL BE ATTACHED AS INDICATED ON STRUCTURAL DRAWINGS.

6.1 FRAMING LUMBER:

6.1.1 ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH SKS, UNLESS OTHERWISE NOTED, AND SHALL BEAR THE GRADE STAMP OF AN APPROVED GRADING AGENCY. ALL SILLS, PLATES, SLEEPERS, LEDGERS & NAILERS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR #1 AND EACH PIECE SHALL BEAR THE A.W.P.A. STAMP. TREATED WOOD SILLS WHERE CUT, DRILLED, OR NOTCHED SHALL BE TREATED WITH A PRESERVATIVE PER A.W.P.A. M-84 AND APPROVED BY THE ARCHITECT. THE FOLLOWING GRADES SHALL BE THE MINIMUM ACCEPTABLE GRADES UNLESS OTHERWISE NOTED ON PLANS AND NO MEMBERS MAY FALL BELOW ACCEPTABLE GRADE PER CBC 2303.1.1.

FRAMING TYPE		LUMBER GRADE	MAX. MOISTURE CONTENT AT TIME OF INSTALL
A.	STUDS AND SILL PLATES 2" TO 4" THICK	NO. 1	19%
B.	BEAMS AND HEADERS: 2" TO 4" THICK AND WIDER 5" AND THICKER.	 NO. 1 NO. 1	 19% 19%
C.	POSTS	NO. 1	19%
D.	2X RAFTERS AND JOISTS	NO. 1 & SEL. STR.	19%
E.	TOP PLATES AND LEDGERS	NO. 1	19%
F.	MISC. FRMG. AND BLKG. NOT NOTED ABOVE	NO. 1	19%

6.1.2 APA RATED SHEATHING SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1 OR PS 2 AND EACH PANEL SHALL BEAR APA STAMP. STAGGER SHEETS 4'-0" AND APPLY WITH FACE GRAIN PERPENDICULAR TO SUPPORTS (WHERE STUD SPACING IS 16" O.C. OR LESS FACE GRAIN MAY BE PARALLEL TO STUDS). MAXIMUM SIZE OF UNFRAMED HOLES IN SHEATHING SHALL BE 4" IN DIAMETER OR 4" SQUARE. WHERE HOLES OR NOTCHES ARE CUT IN SHEETS SAW CUTS SHALL NOT RUN BY THE CORNERS OF THE OPENINGS.

6.1.3 ALL FRAMING ANCHORS, CLIPS, STRAPS, HANGERS, ETC. REFERENCED ON THE DRAWINGS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR EQUIVALENT, AS APPROVED BY THE STRUCTURAL ENGINEER AND INSTALLED TO RESIST MAXIMUM RATED LOADS WITH CORROSION RESISTANT COATINGS RECOMMENDED BY MFR. AT PRESERVATIVE-TREATED WOOD.

6.1.4 NAILING SHALL CONFORM WITH TABLE 2304.10 OF CALIFORNIA BUILDING CODE, UNLESS OTHERWISE NOTED ON PLANS. ALL NAILS EXPOSED TO THE WEATHER OR IN P.T. MEMBERS SHALL BE HOT DIPPED GALVANIZED PER CBC 2304.10.6.1. NAILS REFERENCED IN THE DRAWINGS SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS EXCLUDING COATINGS, U.O.N.:

NAIL DESIGNATION	DIAMETER (IN)	LENGTH (IN)
40d	0.225	5
16d	0.162	3 1/2
10d	0.148	3
8d	0.131	2 1/2
6d	0.113	2

6.1.5 ANCHOR BOLTS TO BE 5/8" DIAMETER, ASTM A307, LENGTH AS REQ'D. W/ STANDARD WASHERS (MIN. 0.229" THK. WASHER AS PER CBC 2308.3.1.1), AND A MINIMUM EMBEDMENT OF 7" INCHES INTO FOUNDATIONS EXCLUDING CURBS. ANCHOR BOLTS SHALL BE PLACED WITHIN 12 INCHES (MAX.) & INCHES (MIN.) OF ENDS AND SPLICES OF PLATES AND 4 FEET ON CENTER, UNLESS OTHERWISE NOTED. ANCHOR BOLTS WITH UPSET THREADS ARE NOT ALLOWED. ANCHOR BOLTS, NUTS & WASHERS SHALL BE HOT DIPPED GALVANIZED, STAINLESS STEEL, OR MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MIN. 5/8" DIAMETER ANCHOR BOLTS NOT INSTALLED AT A CONC. CURB CAN BE SUBSTITUTED ON A 1:1 BASIS WITH A SIMPSON THDB62800HMG.

6.1.7 INTERIOR NON-BEARING WALLS SHALL BE SECURED TO SLAB WITH 3/8" DIAMETER X 2" EMBEDMENT HILTI KWIK BOLT TZ2 OR SIMPSON STRONG-BOLT 2 PLACED 4 FEET ON CENTER WITHIN 12 INCHES OF ENDS OF WALLS AND PLATE SPLICES, U.O.N. IN DETAILS. TENSION OR TORQUE TEST 10% OF THE BOLTS PER THE SCHEDULE ON SHEET S120. (USE 3/8" DIAMETER ANC. BOLTS WHERE SILL PLATE IS PLACED ON CONC. CURBS). CONTRACTOR'S OPTION: USE HILTI X-U 72P8 S36 POWDER ACTUATED FASTENERS AT 32 INCHES ON CENTER (EXCEPT AT CONCRETE CURBS) INSTALL PER ICC NO. ESR-2269.

6.2 ROUGH CARPENTRY:

6.2.1 ALL FLUSH-FRAMED JOISTS SHALL SEAT IN SIMPSON HANGERS, UNLESS OTHERWISE NOTED.

6.2.2 BOLT & LAG SCREW HEADS AND NUTS AGAINST WOOD SHALL BEAR AGAINST STANDARD STEEL WASHERS, UNLESS SPECIAL WASHERS ARE INDICATED ON PLANS OR DETAILS. JUST PRIOR TO COVERING ROUGH FRAMING, ALL BOLTS AND LAGS IN WOOD MEMBERS SHALL BE RE-TIGHTENED.

6.2.3 LAG SCREWS SHALL BE THREADED INTO LEAD HOLES BORED AS FOLLOWS: THE LEAD HOLE FOR THE SHANK SHALL BE THE SAME DEPTH AND DIAMETER AS THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 TO 75 PERCENT OF THE SHANK DIAMETER AND A DEPTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.

6.2.4 CUTTING AND BORING OF WOOD STUDS:
A. LET-INS ARE NOT PERMITTED.
B. NOTCHING OF STUDS IS NOT PERMITTED.
C. NEATLY BORED HOLES NOT GREATER THAT 40% OF THE WIDTH OF THE STUD ARE PERMITTED IN ANY WALL, PROVIDED THAT THEY ARE INSTALLED AT THE CENTERLINE OF THE STUDS.

6.2.5 FOUNDATION WALL TO BE A MINIMUM OF 8" AB

TESTING & SPECIAL INSPECTIONS

7.0 SPECIAL INSPECTION:

7.1.1 GENERAL:

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE PHASES OF WORK LISTED HERE IN SECTION 7 AND THE FOLLOWING TABLES.

THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION.

THE CONTRACTOR SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK FOR EACH ITEM REQUIRING SPECIAL INSPECTION OR TESTING. THE STATEMENT SHALL CONTAIN THE FOLLOWING:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED WITHIN THE TESTING AND INSPECTION SECTIONS OF THE CONSTRUCTION DOCUMENTS.
2. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

7.1.2 REPORTS:

THE THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT THE WORK INSPECTED WAS OR WAS NOT DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.

7.1.3 FABRICATION:

WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION SHALL BE PERFORMED.

THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL FOR THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.

SPECIAL INSPECTION IS NOT REQUIRED IF WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

7.2 STEEL CONSTRUCTION:

STEEL ELEMENTS SHALL REQUIRE INSPECTIONS PER AISC 360.

SPECIAL INSPECTION SHALL NOT BE REQUIRED WHERE THE STEEL FABRICATION PROCESS DOES NOT PERFORM ANY WELDING, THERMAL CUTTING OR HEATING OPERATION OF ANY KIND AS PART OF THE FABRICATION PROCESS. IN SUCH CASES, THE FABRICATOR SHALL BE REQUIRED TO SUBMIT A DETAILED PROCEDURE FOR MATERIAL CONTROL THAT DEMONSTRATES THE FABRICATOR'S ABILITY TO MAINTAIN SUITABLE RECORDS AND PROCEDURES SUCH THAT, AT ANY TIME DURING THE FABRICATION PROCESS, THE MATERIAL SPECIFICATION, GRADE AND MILL TEST REPORTS FOR THE MAIN STRESS-CARRYING ELEMENTS ARE CAPABLE OF BEING DETERMINED.

7.2.2 WELDING OF REINFORCING STEEL:

INSPECTION AND QUALIFICATION OF WELDING SHALL BE IN COMPLIANCE WITH AWS D1.4 AND ACI 318.

7.2.3 DETAILS:

VERIFY THE STEEL SEISMIC RESISTING SYSTEM IS IN COMPLIANCE WITH THE DETAILS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS.

7.3 CONCRETE CONSTRUCTION:

INSPECTION AND VERIFICATION SHALL BE AS REQUIRED BY THE FOLLOWING AND TABLE 1705.3

SPECIAL INSPECTION SHALL NOT BE REQUIRED FOR THE FOLLOWING:

1. ISOLATED SPREAD FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
2. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI.
3. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS, ON GRADE.

SAMPLES FOR STRENGTH TEST OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOT LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS.

ON A GIVEN PROJECT, IF TOTAL VOLUME OF CONCRETE IS SUCH THAT FREQUENCY OF TESTING REQUIRED ABOVE WOULD PROVIDE LESS THAN FIVE STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, TESTS SHALL BE MADE FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE BATCHES ARE USED.

WHEN TOTAL QUANTITY OF A GIVEN CLASS OF CONCRETE IS LESS THAN 50 CUBIC YARDS, STRENGTH TESTS ARE NOT REQUIRED WHEN EVIDENCE OF SATISFACTORY STRENGTH IS SUBMITTED TO AND APPROVED BY THE BUILDING OFFICIAL.

7.3.1 MATERIALS:

IN THE ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION PROVIDING EVIDENCE OF CONFORMANCE TO QUALITY STANDARDS FOR MATERIALS IN ACI 318 CHAPTER 3, THE BUILDING OFFICIAL SHALL REQUIRE TESTING

CERTIFIED MILL TEST REPORTS SHALL BE SUBMITTED FOR EACH SHIPMENT OF REINFORCING USED IN CONCRETE.

7.5 WOOD CONSTRUCTION:

PREFABRICATED STRUCTURAL ELEMENTS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH FABRICATION REQUIREMENTS SPECIFIED UNDER SECTION 7.1.3.

7.6 SOILS:

EXCEPTION: WHERE CBC SECTION 1803 DOES NOT REQUIRE REPORTING OF MATERIALS AND PROCEDURES FOR FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557.

7.15 MECHANICAL AND ELECTRICAL COMPONENTS FOR SEISMIC RESISTANCE: (SEISMIC DESIGN CATEGORY D, E & F.

PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING:

1. ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STANDBY POWER SYSTEMS.
2. INSTALLATION OF ANCHORAGE OF ELECTRICAL EQUIPMENT (SDC E & F ONLY).
3. INSTALLATION OF VIBRATION ISOLATION SYSTEMS WHERE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF 1/4 INCH OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT.

8.0 POST-INSTALLED ANCHORS TESTING REQUIREMENTS & PROCEDURES:

8.1 POST-INSTALLED ANCHORS IN CONCRETE & MASONRY:

1. APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.

2. CALIBRATION OF TESTING EQUIPMENT SHALL BE PERFORMED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD PROCEDURES.

3. HYDRAULIC RAM: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD APPLIED FOR A MINIMUM OF 15 SECONDS. FOR ADHESIVE ANCHORS, THE TESTING DEVICE SHALL NOT RESTRICT THE CONCRETE SHEAR CONE FAILURE MECHANISM.

4. TORQUE WRENCH: THE APPLICABLE TEST TORQUE MUST BE ACHIEVED WITHIN ONE HALF (1/2) TURN OF THE NUT FOR WEDGE/SCREW TYPE ANCHORS EXCEPT 3/8" SLEEVE OR THREADED TYPE ANCHOR (AFTER INITIAL SEATING OF SCREW HEAD) WHERE TORQUE SHALL BE ACHIEVED WITHIN ONE-QUARTER (1/4) TURN OF THE NUT.

5. TEST 10% OF ANCHORS INSTALLED IN SILL PLATES, TEST 50% OF ANCHORS USED FOR NONSTRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE AND ALL ANCHORS USED FOR STRUCTURAL APPLICATION PER CBC SECTION 1909.2.7.3 EXCEPT AS FOLLOWS:

   A. UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET SHALL NOT REQUIRE TESTING.

   B. WHERE ADHESIVE ANCHOR SYSTEMS ARE USED TO INSTALL REINFORCING DOWEL BARS, ONLY 25 PERCENT OF THE DOWELS SHALL BE TESTED IF ALL THE FOLLOWING CONDITIONS ARE MET:

      a. THE DOWELS ARE USED EXCLUSIVELY AS SHEAR DOWELS BETWEEN NEW AND EXISTING CONCRETE.

      b. THE NUMBER OF DOWELS IN ANY ONE MEMBER EQUALS OR EXCEEDS TWELVE.

      c. THE DOWELS ARE UNIFORMLY DISTRIBUTED ACROSS SEISMIC FORCE RESISTING MEMBERS (SUCH AS SHEAR WALLS, COLLECTORS AND DIAPHRAGMS).

   ANCHORS TO BE TESTED SHALL BE SELECTED AT RANDOM BY THE SPECIAL INSPECTOR/INSPECTOR OF RECORD (IOR).

8.3 ADHESIVE ANCHOR INSTALLER CERTIFICATION:

ADHESIVE ANCHOR INSTALLERS FOR ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION SHALL HAVE AN ACI/CRSI ADHESIVE ANCHOR INSTALLERS CERTIFICATION OR AN EQUAL CERTIFICATION FROM THE MANUFACTURER OF THE ADHESIVE PRIOR TO INSTALLATION OF THE ANCHORS.

ALL OTHER INSTALLERS SHALL BE TRAINED BY THE MANUFACTURER FOR INSTALLATION OF THE ADHESIVE ANCHOR.

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	CBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
3. INSPECT ANCHORS CAST IN CONCETE		X	ACI 318: 17.8.2	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.[b]				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINDED IN 4.A		X	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX		X	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	X		ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3 - 26.5.5	1908.9
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.1.2(b)	

a. WHERE APPLICABLE, SEE 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 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC 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. INSTALLATION OF ALL ADHESIVE ANCHORS IN HORIZONTAL AND UPWARDLY INCLINED POSITIONS SHALL BE PERFORMED BY AN ACI/CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER, EXCEPT WHERE THE DESIGN TENSION ON THE ANCHORS IS LESS THAN 100 POUNDS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS OR WHERE THE ANCHORS ARE SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE RESISTING SYSTEM.

TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X

HILTI KB TZ2 CONCRETE REQ'TS

TORQUE TESTING REQ'TS FOR HILTI KWIK BOLT TZ2 SYSTEM IN CONCRETE

DIAMETER (IN)	EMBED (IN)	STAINLESS STL TORQUE TEST (FT-LBS)	CARBON STL TORQUE TEST (FT-LBS)
1/4	1 1/2	6	4
3/8	1 1/2	30	30
	2		
	2 1/2		
1/2	1 1/2	40	50
	2		
	2 1/2		
	3 1/4		
5/8	2 3/4	60	40
	3 1/4		
	4		
3/4	3 1/4	125	110
	3 3/4		
	4 3/4		
1	4	185	185
	5 3/4		

(BASED ON ICC NO. ESR-4266 DATED DECEMBER 2021)

NOTE:
WHEN TORQUE TESTING CANNOT BE APPLIED CONTACT ENG. FOR PULL TEST REQUIREMENTS

SIMPSON TITEN HD SCREW CONCRETE REQ'TS

MAX. TORQUE REQ'TS FOR SIMPSON TITEN HD SCREW SYSTEM IN CONCRETE

DIAMETER (IN)	EMBED (IN)	MAX. INSTALLATION TORQUE (FT-LBS)
1/4	1 5/8	24
	2 1/2	
3/8	2 1/2	50
	3 1/4	
1/2	3 1/4	65
	4	
5/8	4	100
	5 1/2	
3/4	4	150
	5 1/2	
	6 1/4	

(BASED ON ICC NO. ESR-2713 DATED SEPTEMBER 2022)

NOTE:
1. CARBON STL. ANCHORS LIMITED TO DRY INTERIOR CONDITIONS
2. STAINLESS STL. ANCHORS MAY BE USED IN EXTERIOR EXPOSURE OR DAMP ENVIRONMENTS

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER — EDWARD V. FLORES — No. 3 — EXP 8-30-27 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TESTING & SPECIAL INSPECTIONS NOTES

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NMR
Date Issued	10/15/2025
Scale	NONE
Project No.	21-6497

SHEET No.

S120

Login Name: VKnFl
Plot Date: October 15, 2025 - 11:11 am
File Name: \\nmrchico-fs\NMR\Files\Sworks\21 Projects\021-6497 Tehama Co. Corning Vets Hall\02 DRWG\S021-6497 STD SNOT.dwg
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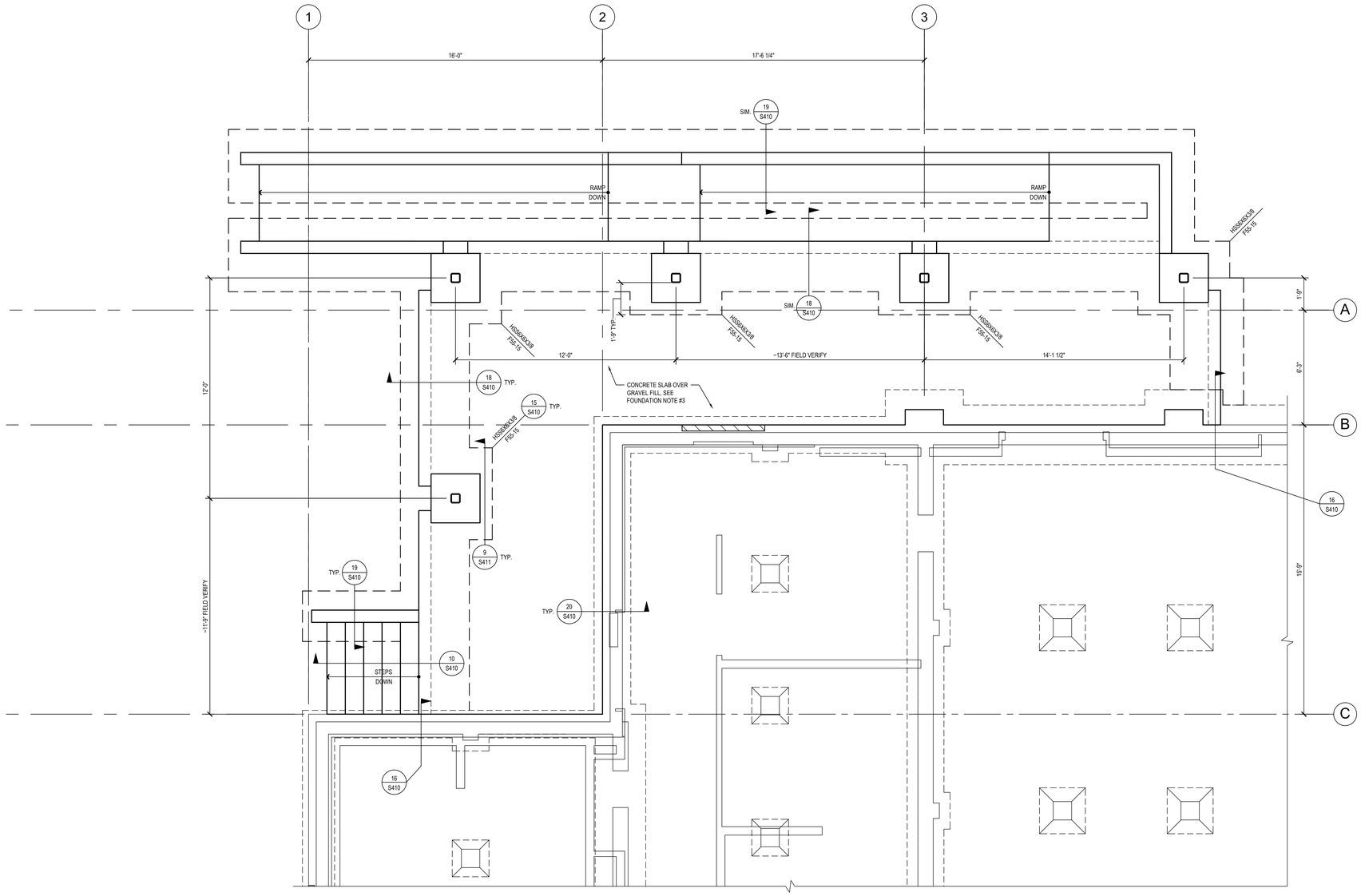

PARTIAL FOUNDATION PLAN

SCALE: 3/8" = 1'-0"

FOUNDATION NOTES

1. SEE GENERAL STRUCTURAL NOTES ON SHEET S110 FOR ADDITIONAL INFORMATION.
2. SEE ARCH FOR ALL DIMENSIONS & ELEVATIONS.
3. TYPICAL SLAB ON GRADE TO BE 4" THICK, REINFORCED W/ #3 @ 16" O.C. LOCATED 1" CLEAR FROM TOP OF SLAB, OVER FREE DRAINING GRAVEL. SEE SHEET S410 FOR TYPICAL FOUNDATION DETAILS.
4. INDICATES (E) 6X8 POST
   INDICATES (E) TAPERED CONCRETE PIERS
5. INDICATES (E) CONCRETE FOOTING AND STEM WALL
   INDICATES (E) BRICK
   INDICATES (E) FLOOR JOIST, SEE PLAN
   INDICATES (E) FLOOR GIRDER, SEE PLAN
   INDICATES CONCRETE FOOTING AND WALL
4. INDICATES COLUMN SIZE, SEE PLAN
   INDICATES FOOTING SIZE, SEE SCHEDULE
   INDICATES POST
   INDICATES CONC. PEDESTAL
   INDICATES SPREAD FOOTING. SEE 15/S410 FOR MORE INFO.

HSS5X5X1/4 F22-15

SPREAD FOOTING SCHEDULE

MARK	WIDTH "B"	DEPTH "D"	REINFORCEMENT
F55-15	5'-0" SQ.	15"	6- #5 EA. WAY T.&B.
F5.335.33-15	5'-4" SQ.	15"	6- #5 EA. WAY T.&B.

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REGISTERED PROFESSIONAL ENGINEER EDWARD V. T. LEE No. 3 EXP. 9-30-27 STRUCTURAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PARTIAL FOUNDATION PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NMR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S211

Login Name: VtroP
Plot Date: October 13, 2025 - 11:11 am
File Name: \\nmrdsc-fs\NMRFiles\Work\21 Projects\21-6497 Tehama Co. Corning Vets Hall\02 DRW\S\S211-6497 S2D FNDN.dwg
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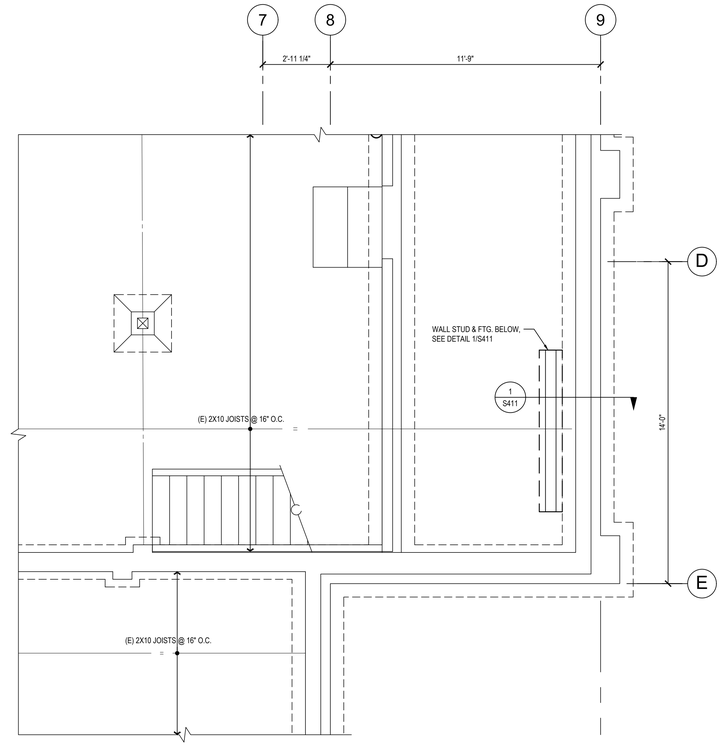
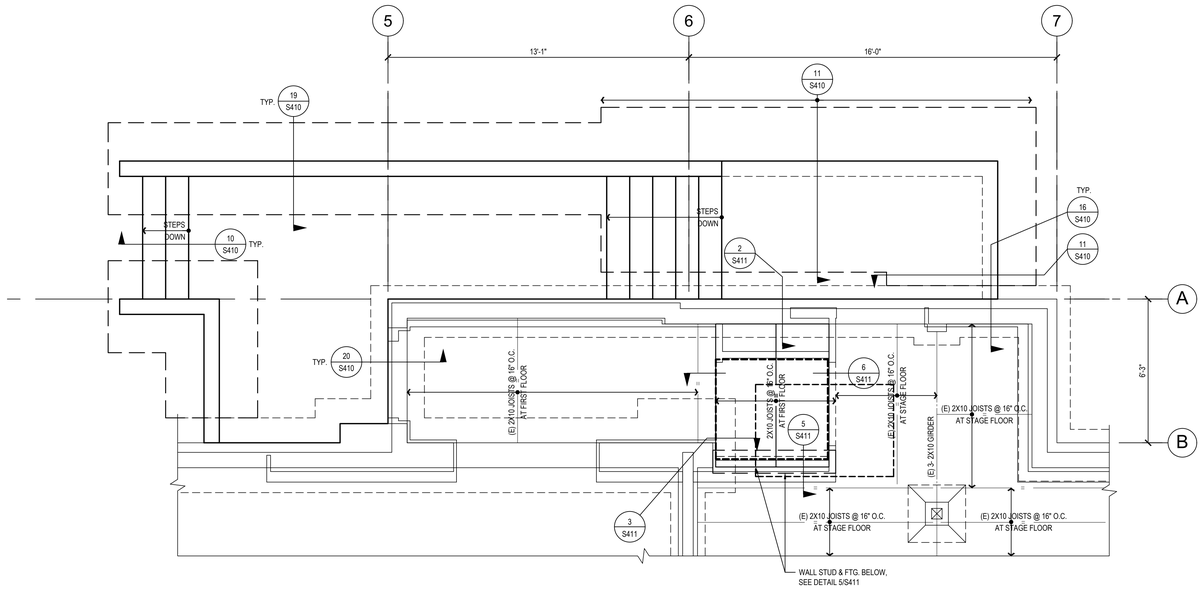


PARTIAL FOUNDATION AND FLOOR FRAMING PLAN

SCALE: 3/8" = 1'-0"



PARTIAL FOUNDATION AND FLOOR FRAMING PLAN

SCALE: 3/8" = 1'-0"

FOUNDATION NOTES

1. SEE GENERAL STRUCTURAL NOTES ON SHEET S110 FOR ADDITIONAL INFORMATION.
2. SEE ARCH FOR ALL DIMENSIONS & ELEVATIONS.
3. TYPICAL SLAB ON GRADE TO BE 4" THICK, REINFORCED W/ #3 @ 16" O.C. LOCATED 1" CLEAR FROM TOP OF SLAB, OVER FREE DRAINING GRAVEL. SEE SHEET S410 FOR TYPICAL FOUNDATION DETAILS.
4. INDICATES (E) 6X8 POST
   INDICATES (E) TAPERED CONCRETE PIERS
5. INDICATES (E) CONCRETE FOOTING AND STEM WALL
   INDICATES (E) BRICK
   INDICATES (E) FLOOR JOIST, SEE PLAN
   INDICATES (E) FLOOR GIRDER, SEE PLAN
   INDICATES CONCRETE FOOTING AND WALL
4. INDICATES COLUMN SIZE, SEE PLAN
   INDICATES FOOTING SIZE, SEE SCHEDULE (F55/S3X1/4 F22-15)
   INDICATES POST
   INDICATES SPREAD FOOTING. SEE 15/S410 FOR MORE INFO.

SPREAD FOOTING SCHEDULE			
MARK	WIDTH "B"	DEPTH "D"	REINFORCEMENT
F55-15	5'-0" SQ.	15"	6- #5 EA. WAY T.&B.
F5.335.33-15	5'-4" SQ.	15"	6- #5 EA. WAY T.&B.

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REGISTERED PROFESSIONAL ENGINEER — EDWARD V. T. LEE — No. 3 — EXP 9-30-27 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PARTIAL FOUNDATION & FLOOR FRAMING PLANS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	VR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S212

Login Name: VNorR
Plot Date: October 15, 2025 - 11:12 am
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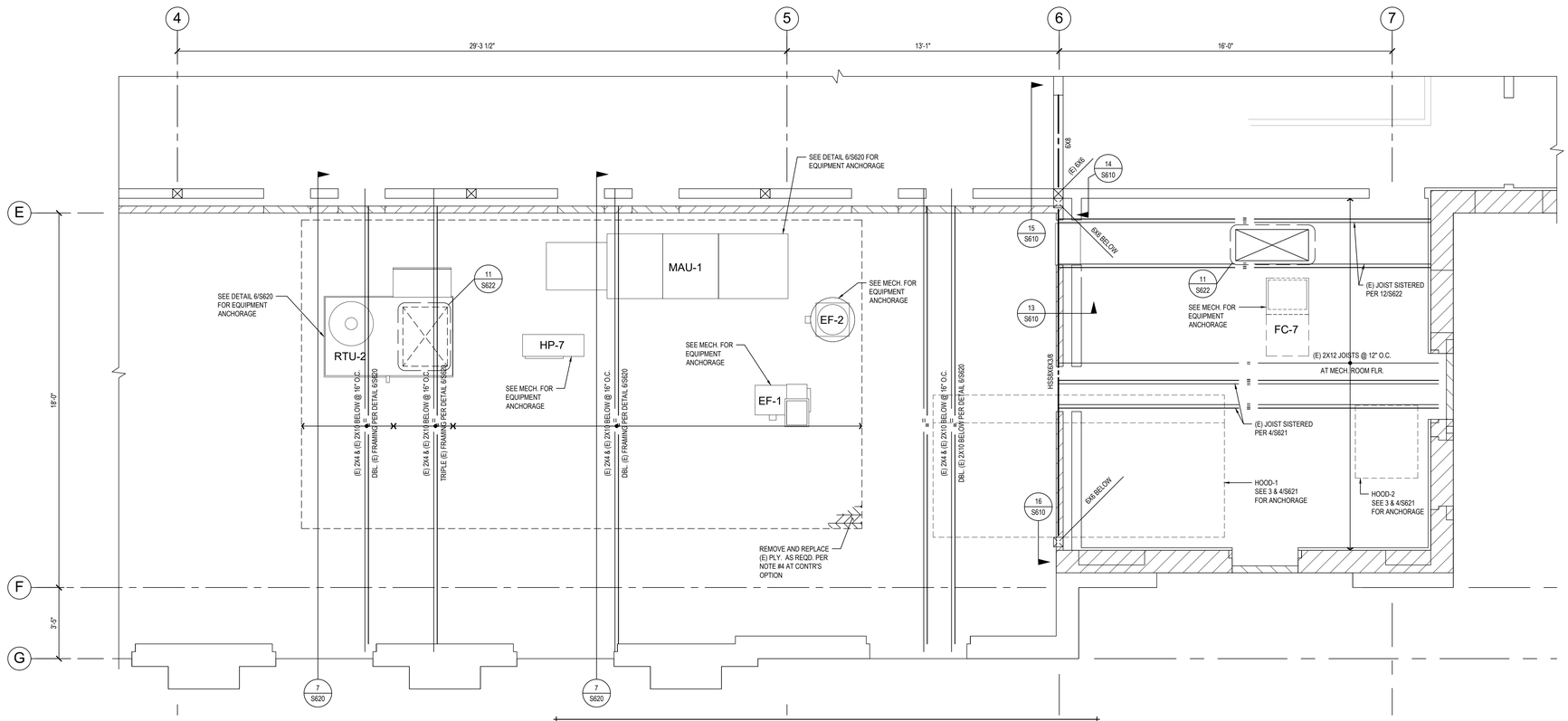
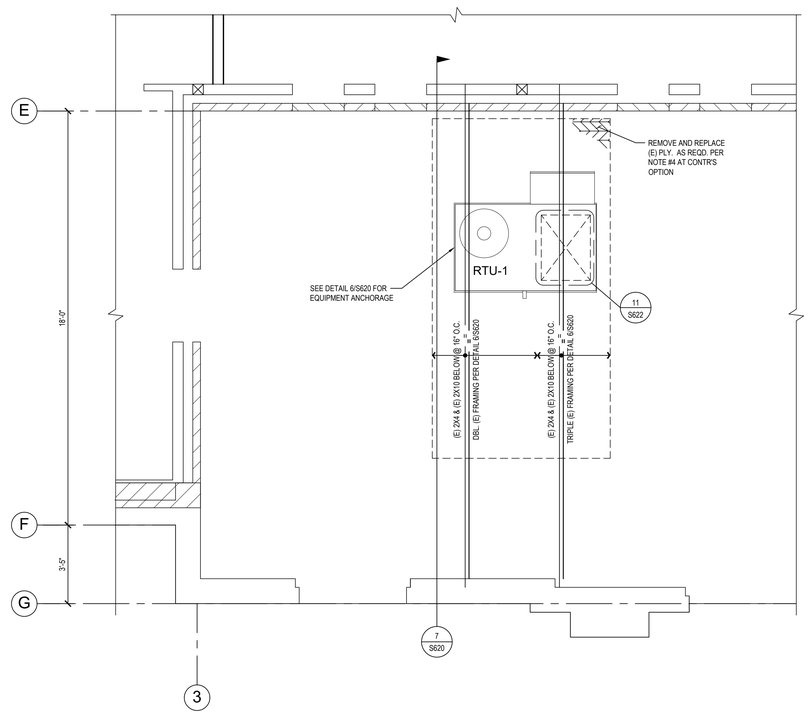


PARTIAL LOW ROOF FRAMING PLAN

SCALE: 3/8" = 1'-0"



PARTIAL LOW ROOF FRAMING PLAN

SCALE: 3/8" = 1'-0"

LOW ROOF FRAMING NOTES

1. SEE SHEET S110 FOR GENERAL STRUCTURAL NOTES. SEE ARCH. & MECH. DRAWINGS FOR SIZE AND LOCATION OF ALL PENETRATIONS.
2. COORDINATE ALL HVAC MECHANICAL UNIT SIZES AND LOCATIONS WITH ARCH. & MECH. DRAWINGS.
3. SEE SHEET S110 FOR DESIGN LOADS.
4. ROOF SHEATHING TO BE EXP. 1 APA RATED SHTG. TO MATCH THICKNESS OF (E) ROOF SHT'G., UNBLOCKED, NAILED W/ 10ds @ 6" O.C. E.N. & 12" O.C. F.N. SEE DIAPHRAGM NAILING DETAIL 2/S610 & 2/S620 FOR ROOF SHEATHING ATTACHMENT REQUIREMENTS.
5. 6X6 — INDICATES POST WIDTH. DEPTH & MATERIAL TO MATCH WALL FRAMING; INDICATES POST.
6. INDICATES (E) JOIST, SEE PLAN; INDICATES JOIST OR GIN/ TRUSS, SEE PLAN; INDICATES BEAM, SEE PLAN
7. WALL LEGEND
   - INDICATES WOOD STUD WALL, U.O.N.
   - INDICATES (E) BRICK WALL, U.O.N.
8. ROOF SHEATHING TO BE 15/32" EXP. 1 RATED SHT'G., UNBLOCKED W/ A SPAN RATING 40/20 NAILED W/ 10d's @ E.N. & @ 12" O.C. F.N., SEE 2/S610 FOR ADD'L. INFORMATION

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REGISTERED PROFESSIONAL ENGINEER — EDWARD V. T. LEE — No. 3 — EXP. 8-30-27 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PARTIAL LOW ROOF FRAMING PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	VR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S220

Login Name: VReiff
Plot Date: October 15, 2025 - 11:02 am
File Name: \\nmr-chic-fs\NMR\Revit\Revit Work\21 Projects\21-6497 Tehama Co Corning Vets Hall\22 - 25%\S220_LWRF.dwg
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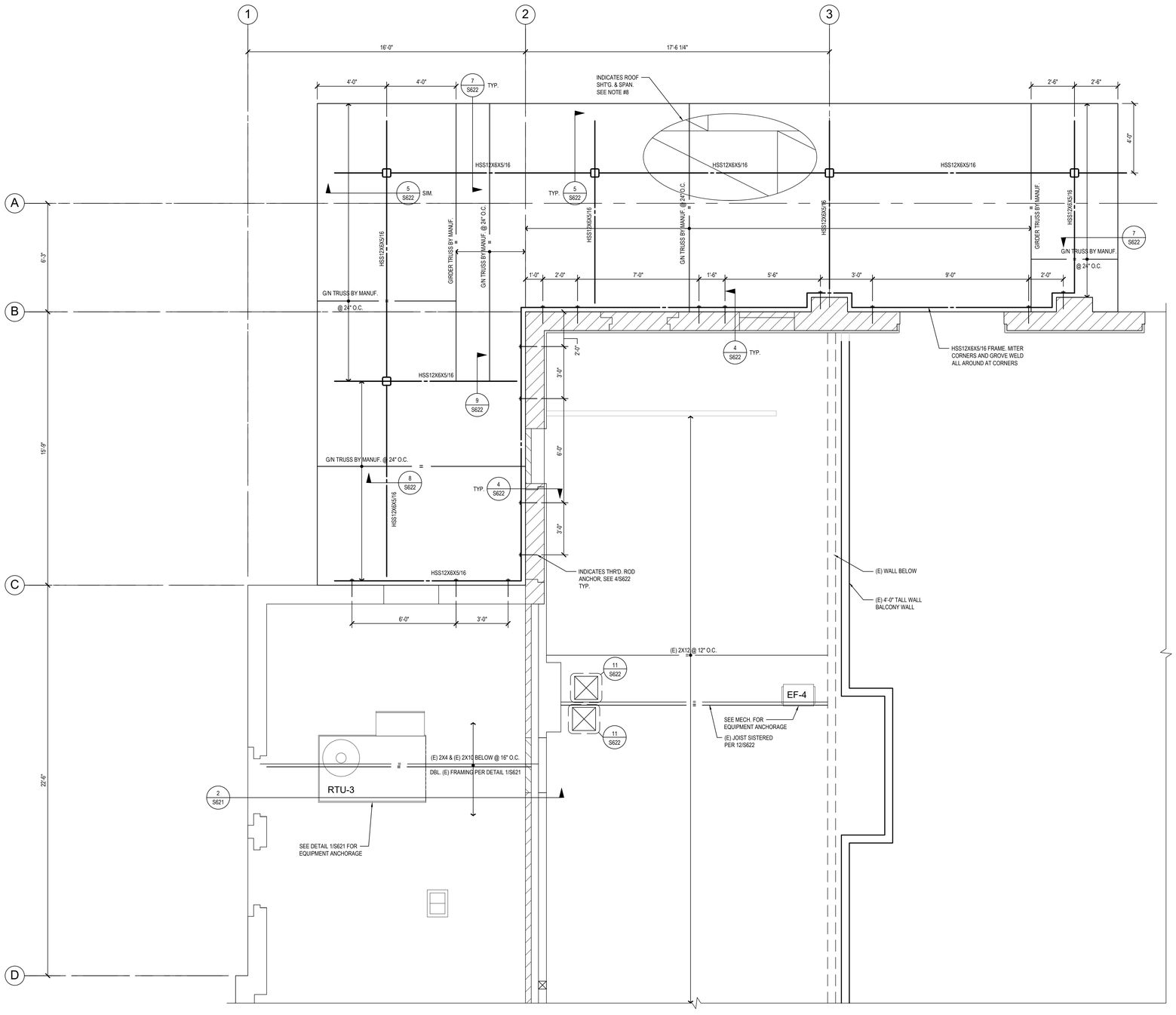

PARTIAL LOW ROOF FRAMING PLAN

SCALE: 3/8" = 1'-0"

LOW ROOF FRAMING NOTES

1. SEE SHEET S110 FOR GENERAL STRUCTURAL NOTES. SEE ARCH. & MECH. DRAWINGS FOR SIZE AND LOCATION OF ALL PENETRATIONS.
2. COORDINATE ALL HVAC MECHANICAL UNIT SIZES AND LOCATIONS WITH ARCH. & MECH. DRAWINGS.
3. SEE SHEET S110 FOR DESIGN LOADS.
4. ROOF SHEATHING TO BE EXP. 1 APA RATED SHTG. TO MATCH THICKNESS OF (E) ROOF SHT'G., UNBLOCKED, NAILED W/ 10ds @ 6" O.C. E.N. & 12" O.C. F.N. SEE DIAPHRAGM NAILING DETAIL 2/S610 & 2/S620 FOR ROOF SHEATHING ATTACHMENT REQUIREMENTS.
5. 6x — INDICATES POST WIDTH. DEPTH & MATERIAL TO MATCH WALL FRAMING
   INDICATES POST.
6. INDICATES (E) JOIST, SEE PLAN
   INDICATES JOIST OR G/N TRUSS, SEE PLAN
   INDICATES BEAM, SEE PLAN
7. WALL LEGEND
   INDICATES WOOD STUD WALL, U.O.N.
   INDICATES (E) BRICK WALL, U.O.N.
8. ROOF SHEATHING TO BE 15/32" EXP. 1 RATED SHT'G., UNBLOCKED W/ A SPAN RATING 40/20 NAILED W/ 10d's @ E.N. & @ 12" O.C. F.N., SEE 2/S610 FOR ADD'L. INFORMATION
9. BOTTOM OF HSS STEEL BEAMS TO BE +8'-0" ABOVE (E) 1ST FLOOR LEVEL

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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PARTIAL LOW ROOF FRAMING PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	VR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S221

Login Name: VinnR
Plot Date: October 15, 2025 - 11:12 am
File Name: \\nmrnfile-bl\NMR\Rak\Shared\21 Projects\21-6497 Tehama Co. Corning Vets Hall\02 DRWGS\21-6497 S220 LWRF.dwg
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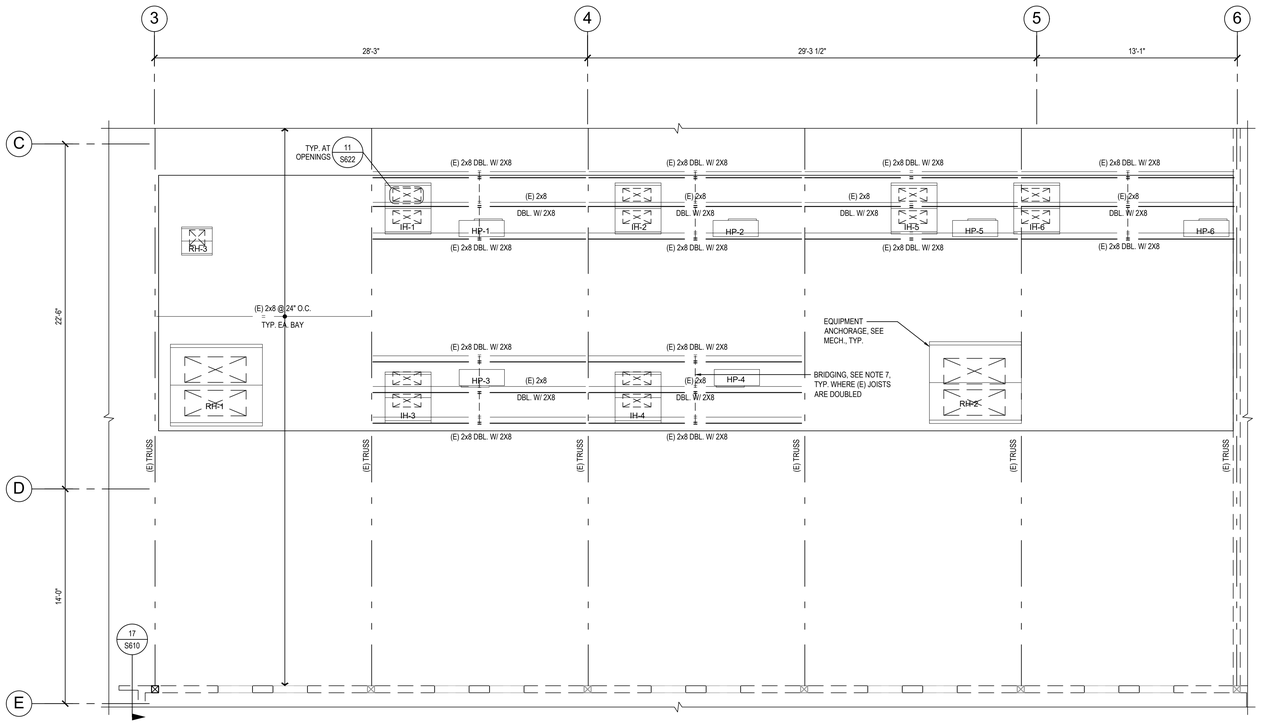

PARTIAL HIGH ROOF FRAMING PLAN

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

ROOF FRAMING NOTES

1. SEE SHEET S110 FOR GENERAL STRUCTURAL NOTES. SEE ARCH. & MECH. DRAWINGS FOR SIZE AND LOCATION OF ALL ROOF PENETRATIONS.
2. SEE SHEET S110 FOR DESIGN LOADS.
3. ⊡——— INDICATES POST.
4. = = = = = = = = INDICATES BEARING WALL BELOW ROOF LEVEL.
5. ——— - - ——— INDICATES ROOF TRUSS, SEE PLAN
6. ——— = ——— INDICATES ROOF JOIST, SEE PLAN
7. PROVIDE MID-SPAN BLOCKING WHERE (E) BRIDGING IS REMOVED TO DOUBLE (E) JOISTS WHERE SHOWN ON PLAN.
8. COORDINATE ALL HVAC MECHANICAL UNIT SIZES AND LOCATIONS WITH ARCH. & MECH. DRAWINGS.

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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1839 SOLANO ST.
CORNING, CA

SHEET TITLE

PARTIAL HIGH ROOF FRAMING PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	VR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S230

Login Name: VinR
Plot Date: October 15, 2025 - 11:9 am
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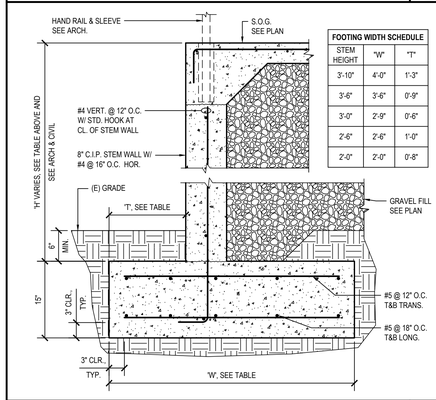
ARCH D (1'0"L) 1:4.62 / 1:4.625" / 1:4.625" / 1:4.625"

NOT USED

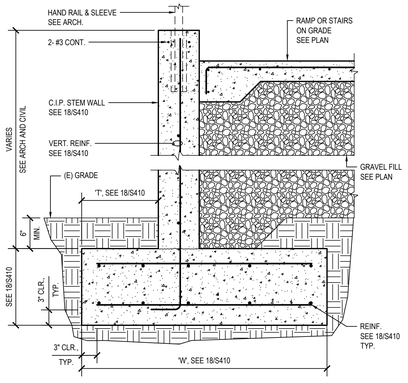
N.T.S. (17)



FOOTING WIDTH SCHEDULE		
STEM HEIGHT	"W"	"T"
3'-10"	4'-0"	1'-3"
3'-6"	3'-6"	0'-9"
3'-0"	2'-9"	0'-6"
2'-6"	2'-6"	1'-0"
2'-0"	2'-0"	0'-8"

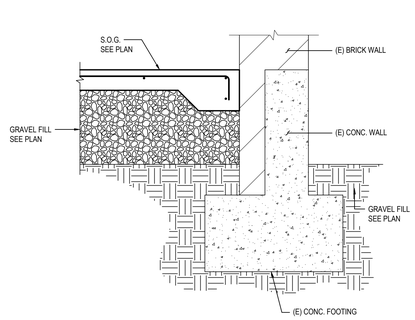
PATIO FOOTING AND WALL SECTION

SCALE: 1 = 1'-0" (18)



FOOTING AND STEM WALL AT RAMP & STAIRS SECTION

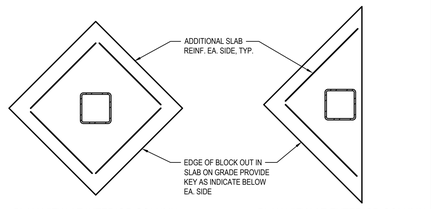
SCALE: 1 = 1'-0" (19)



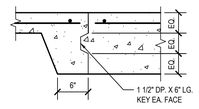
PATIO SECTION AT EXISTING WALL

N.T.S. (20)

ADDITIONAL SLAB REINF. EA. SIDE, TYP.



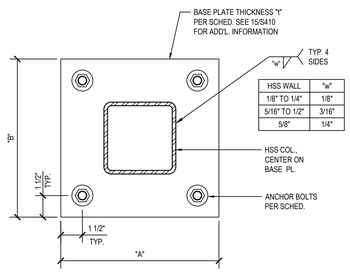
NOTE:
SEE DETAIL 9/S410 FOR SLAB REINF. AT BLOCK OUT CORNERS



KEY JOINT

TYPICAL SLAB ON GRADE BLOCK OUT

N.T.S. (13)

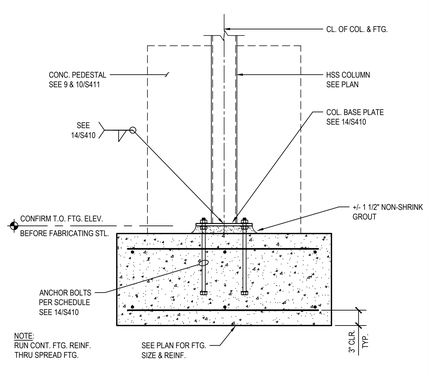


HSS WALL	"w"
1/8" TO 1/4"	1/8"
5/16" TO 1/2"	3/16"
5/8"	1/4"

BASE PLATE SCHEDULE				
COLUMN SIZE	"t"	"A"	"B"	ANCHOR BOLTS
HSS6X6	1/2"	12"	12"	4- 5/8" DIA. X 7 1/2" EMBED

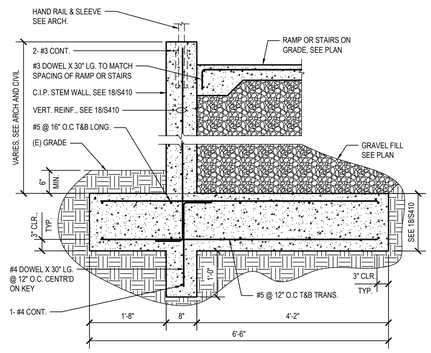
BASE PLATE DETAIL

N.T.S. (14)



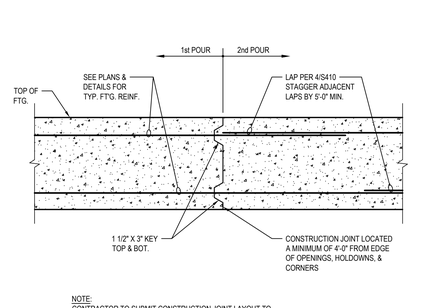
SPREAD FOOTING DETAIL

N.T.S. (15)



FOOTING AND STEM WALL AT RAMP AND STAIRS BY STAGE - SECTION

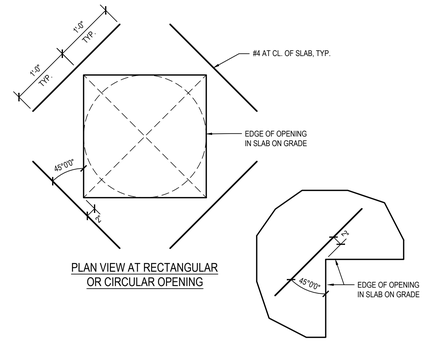
SCALE: 3/4" = 1'-0" (11)



FOOTING PERPENDICULAR TO EXISTING FOOTING

SCALE: 1 = 1'-0" (16)

#4 AT CL. OF SLAB, TYP.



TYPICAL REINFORCING AT OPENINGS AND RE-ENTRANT CORNERS IN SLABS

N.T.S. (9)

NOTE:
1. SEE ARCHITECTURAL DRAWINGS FOR TREAD AND RISER DIMENSIONS.
2. "t" = SLAB THICKNESS, SEE PLAN

TYPICAL STEPS ON GRADE

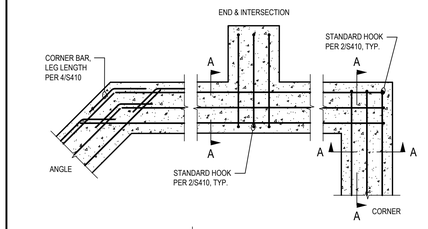
N.T.S. (10)

NOTE:
CONTRACTOR TO SUBMIT CONSTRUCTION JOINT LAYOUT TO STRUCTURAL ENGINEER FOR REVIEW AT LEAST 48 HOURS PRIOR TO PLACEMENT OF CONCRETE.

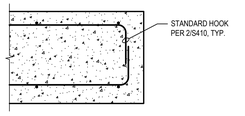
CONSTRUCTION JOINT IN FOOTING

N.T.S. (12)

END & INTERSECTION



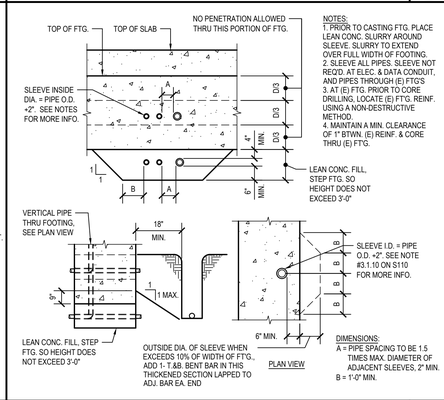
NOTE:
WOOD STAKES NOT PERMITTED WITHIN FOOTING SECTION. STEEL STAKES PERMITTED PROVIDED THEY ARE REMOVED AND VOID IS FILLED W/ CONCRETE OR GROUT.



SECTION A-A

TYPICAL CONCRETE FOUNDATION

N.T.S. (5)

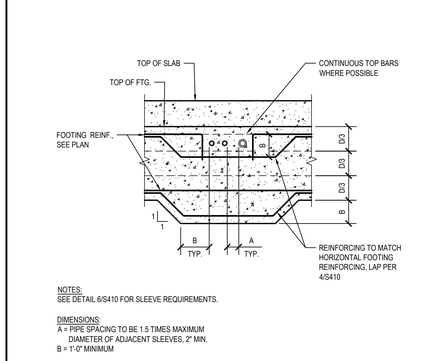


NOTES:
1. PRIOR TO CASTING FTG. PLACE LEAN CONC. SLURRY AROUND SLEEVE. SLURRY TO EXTEND OVER FULL WIDTH OF FOOTING.
2. SLEEVE ALL PIPES. SLEEVE NOT REQ'D. AT ELEC. & DATA CONDUIT, AND PIPES THROUGH (E) FTG'S
3. AT (E) FTG. PRIOR TO CORE DRILLING, LOCATE (E) FTG. REINF. USING A NON-DESTRUCTIVE METHOD.
4. MAINTAIN A MIN. CLEARANCE OF 1" BTWN. (E) REINF. & CORE THRU (E) FTG.

DIMENSIONS:
A = PIPE SPACING TO BE 1.5 TIMES MAX. DIAMETER OF ADJACENT SLEEVES, 2" MIN.
B = 1'-0" MIN.

TYPICAL PIPE THROUGH FOOTING

N.T.S. (6)

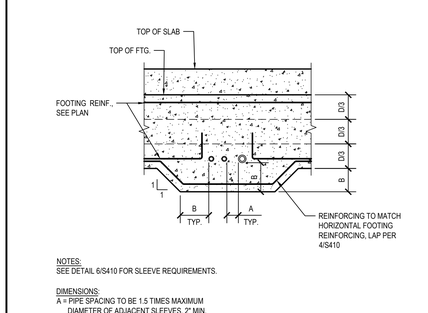


NOTES:
SEE DETAIL 6/S410 FOR SLEEVE REQUIREMENTS.

DIMENSIONS:
A = PIPE SPACING TO BE 1.5 TIMES MAXIMUM DIAMETER OF ADJACENT SLEEVES, 2" MIN.
B = 1'-0" MINIMUM

PIPE THROUGH FOOTING ABOVE ABOVE MIDDLE THIRD

N.T.S. (7)



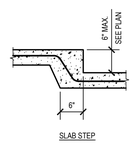
NOTES:
SEE DETAIL 6/S410 FOR SLEEVE REQUIREMENTS.

DIMENSIONS:
A = PIPE SPACING TO BE 1.5 TIMES MAXIMUM DIAMETER OF ADJACENT SLEEVES, 2" MIN.
B = 1'-0" MINIMUM

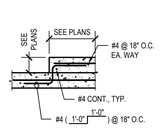
PIPE THROUGH FOOTING BELOW MIDDLE THIRD

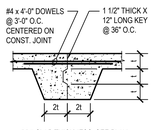
N.T.S. (8)

SLAB STEP

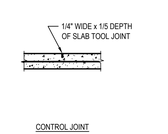


HOUSEKEEPING PAD





CONSTRUCTION JOINT

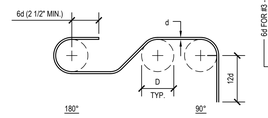


CONTROL JOINT

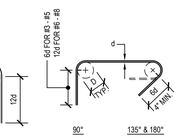
NOTES :
1. MINIMUM REINFORCEMENT SHALL BE PER FOUNDATION NOTE #3 ON S210, S211 & S212.
2. SEE ARCH FOR LOCATION OF CONTROL JOINTS.

TYPICAL SLAB ON GRADE DETAILS

N.T.S. (1)



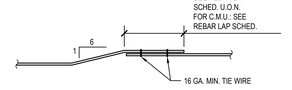
BAR SIZE	MIN. INSIDE BEND "D"
#3 - #8	6d
#9 - #11	8d
#14 & #18	10d



BAR SIZE	MIN. INSIDE BEND "D"
#3 - #5	4d
#6 - #8	6d

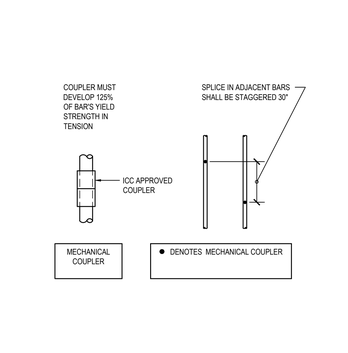
STANDARD BAR HOOKS & BENDS

TYPICAL STIRRUPS, TIES, & DOWELS



STANDARD REBAR HOOKS AND BENDS

N.T.S. (2)



ALTERNATE REBAR SPLICES

N.T.S. (3)

TYP. REBAR LAP LENGTH		
BAR SIZE	2500	3000
	60	60
#3	32	29
	24	23
#4	42	38
	32	29
#5	51	47
	39	37
#6	62	56
	47	43
#7	90	82
	69	63
#8	102	94
	78	72
#9	115	106
	89	81
#10	130	119
	101	91
#11	143	132
	111	102

← CONC. STRENGTH "f'c" IN PSI
← BAR GRADE (KSI)
← TOP BARS PER NOTE 2, TYP. (IN.)
← OTHER BARS, TYP. (IN.)

NOTES:

1. INCREASE LAP LENGTHS 33% FOR LIGHT WEIGHT CONCRETE, AND AT FOUR BAR BUNDLES.
2. TOP BARS - HORIZONTAL BARS PLACED WITH MORE THAN 12" OF FRESH CONC. CAST IN THE MEMBER BELOW THE BARS.
3. SEE CONCRETE SECTION NOTES ON SHEET S110 FOR CONCRETE STRENGTHS.
4. LAP LENGTHS ARE BASED ON CLEAR SPACING OF BARS NOT LESS THAN 2 BAR DIAMETERS AND CLEAR COVER NOT LESS THAN 1 BAR DIAMETER.

REBAR LAP SCHEDULE

N.T.S. (4)

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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TYPICAL FOUNDATION DETAILS & SECTIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

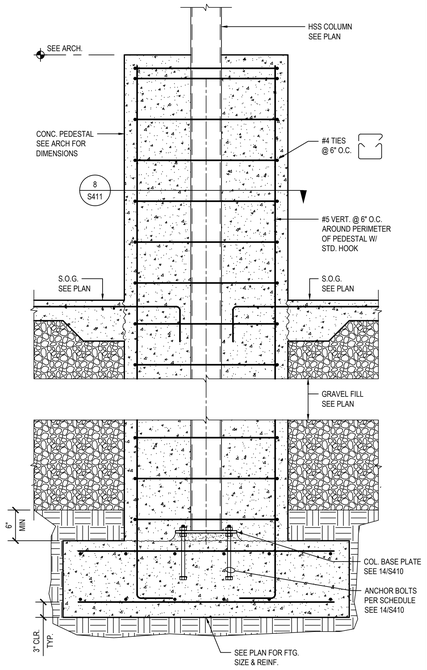
Sym.	Description	Date

Drawn By	NMR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S410

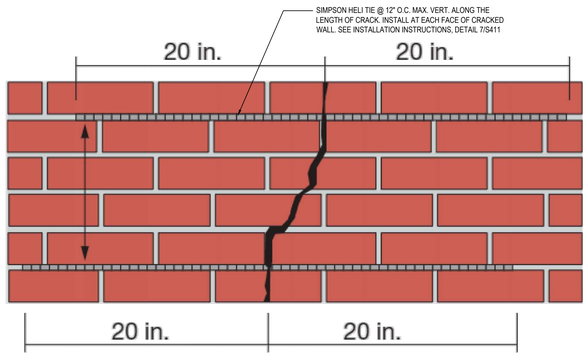
Login Name: WinS
Plot Date: October 13, 2025 - 11:13 am
File Name: \\nmrdisc-fs\NMRfiles\Work\21 Projects\21-6497 Tehama Co Corning Vets Hall\02 DRWGS\21-6497 S410 FOOTing



NOTE:
1. RUN CONT. FTG. REINF. THRU SPREAD FTG.
2. SEE 15/S410 FOR MORE INFORMATION

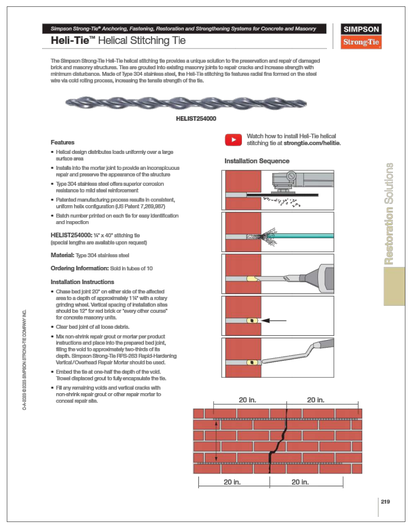
BACK ENTRY PEDESTAL SECTION

SCALE: 1 = 1'-0" — 9



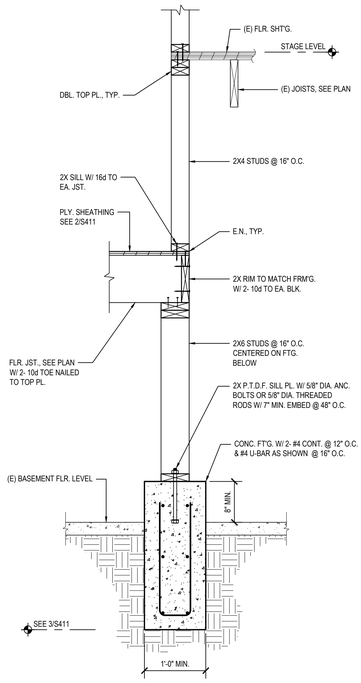
CRACK REPAIR DETAIL

N.T.S. — 4



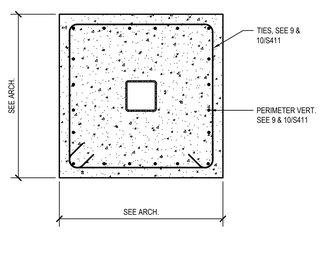
HELI TIE INSTALLATION

N.T.S. — 7



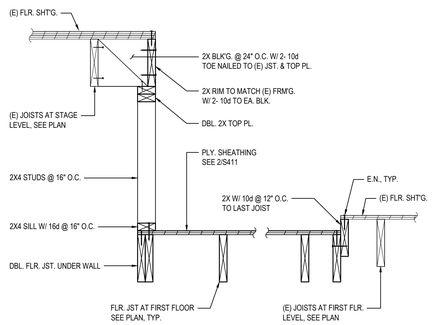
WALL SECTION AT LIFT

SCALE: 1 = 1'-0" — 5



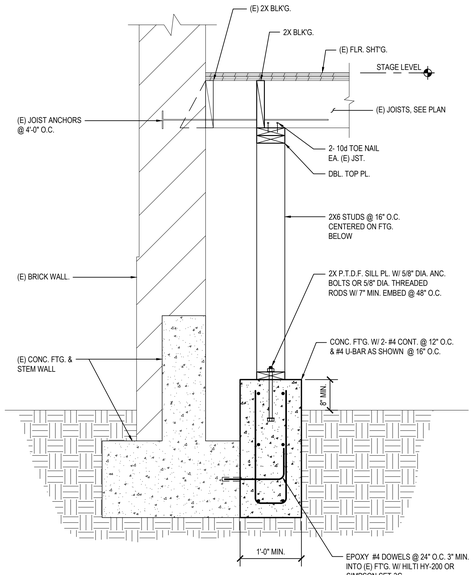
PEDESTAL PLAN SECTION

SCALE: 1 = 1'-0" — 8



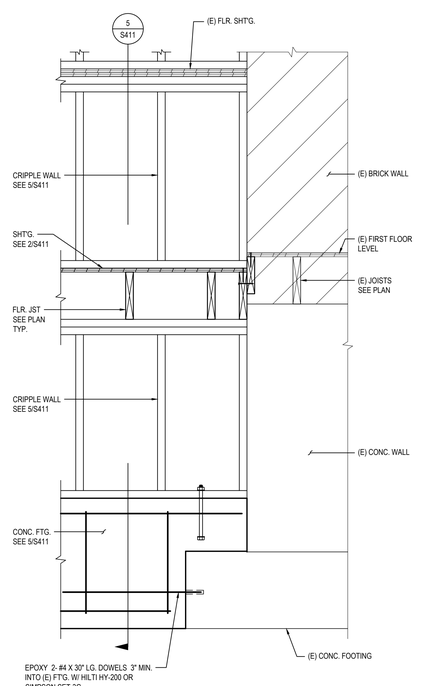
SECTION AT LIFT WALL

SCALE: 1 = 1'-0" — 6



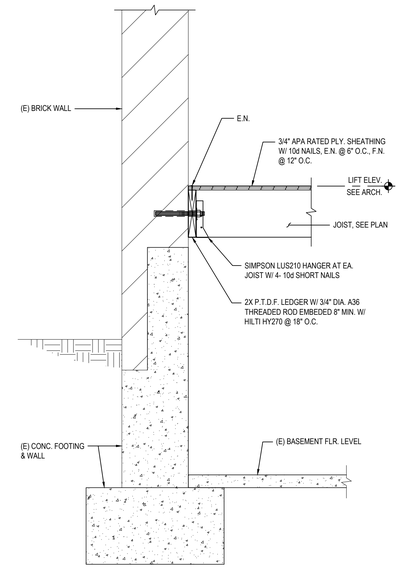
STAGE FLOOR JOIST REPAIR DETAIL

SCALE: 1 = 1'-0" — 1



LIFT WALL FOOTING TO (E) FOOTING

SCALE: 1 = 1'-0" — 3



NEW LEDGER AT LIFT

SCALE: 3/4" = 1'-0" — 2

NOT USED

N.T.S. — 10

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER — EDWARD V. FISHER — No. S 5 — EXP 9-30-27 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FOUNDATION & FRAMING DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NMR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S411

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Plot Date: October 15, 2025 - 11:14 am
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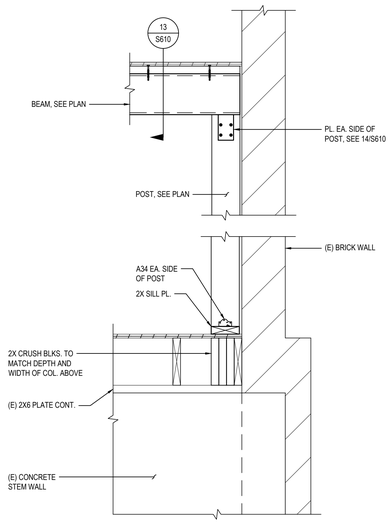
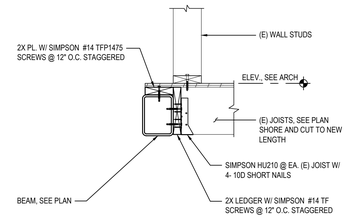


HSS BEAM SUPPORT AT GRID F

SCALE: 1 = 1'-0"

16



SECTION AT HSS BEAM

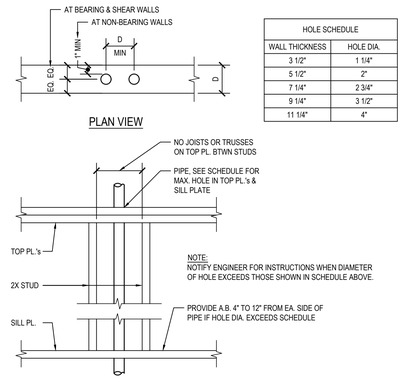
N.T.S.

13

NOT USED

N.T.S.

9

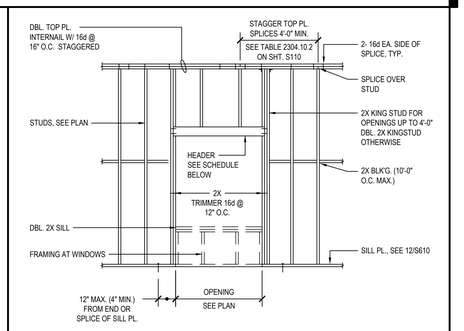


HOLE SCHEDULE	
WALL THICKNESS	HOLE DIA.
3 1/2"	1 1/4"
5 1/2"	2"
7 1/4"	2 3/4"
9 1/4"	3 1/2"
11 1/4"	4"

PIPE THROUGH STUD WALL

N.T.S.

5



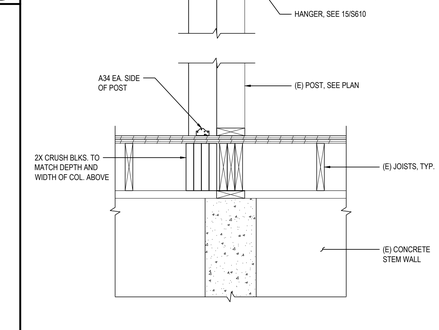
NOTE:
SEE TABLE 2304.10.2 ON SHT. S110
FOR TYPICAL NAILING REQUIREMENTS

HEADER DEPTH	MAX OPENING
3 1/2"	4'-0"
5 1/2"	8'-0"
7 1/4"	12'-0"

TYPICAL INTERIOR NON-BEARING WALL FRAMING ELEVATION

N.T.S.

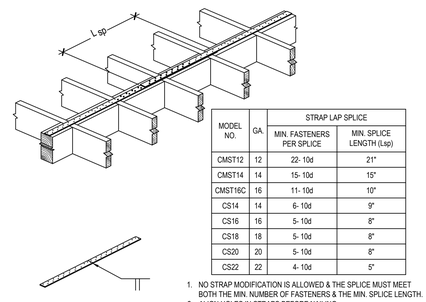
1



HSS BEAM SUPPORT AT GRID E

SCALE: 1 = 1'-0"

14



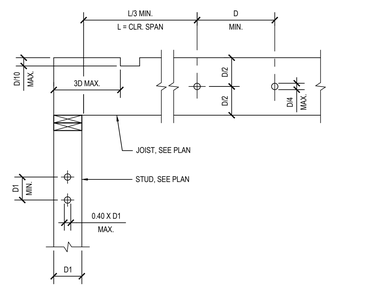
MODEL NO.	GA.	STRAP LAP SPLICE	
		MIN. FASTENERS PER SPLICE	MIN. SPLICE LENGTH (Lsp)
CMST12	12	22- 10d	21"
CMST14	14	15- 10d	15"
CMST16C	16	11- 10d	10"
CS14	14	6- 10d	9"
CS16	16	5- 10d	8"
CS18	18	5- 10d	8"
CS20	20	5- 10d	8"
CS22	22	4- 10d	5"

1. NO STRAP MODIFICATION IS ALLOWED & THE SPLICE MUST MEET BOTH THE MIN. NUMBER OF FASTENERS & THE MIN. SPLICE LENGTH.
2. ALIGN HOLES IN STRAPS BEFORE NAILING.
3. WHEN STRAP IS INSTALLED ON I-JOISTS OR LVL, ADJUST SPLICE LENGTH AS NEEDED TO COMPLY W/ 10d MIN. NAIL SPACING INTO: LVL: FACE = 3", EDGE = 4"
TOP OR BOT. I-JOIST FLANGE: FACE = 3", EDGE = 6"

TYPICAL STRAP SPLICE

N.T.S.

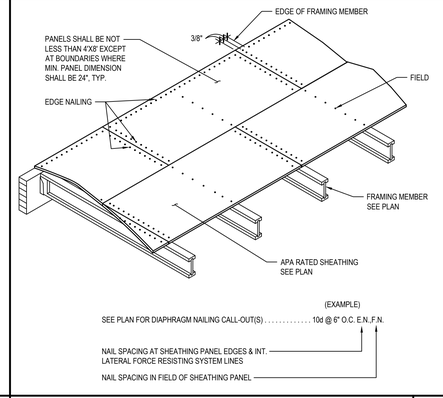
10



HOLES AND NOTCHES IN STUDS AND JOISTS

N.T.S.

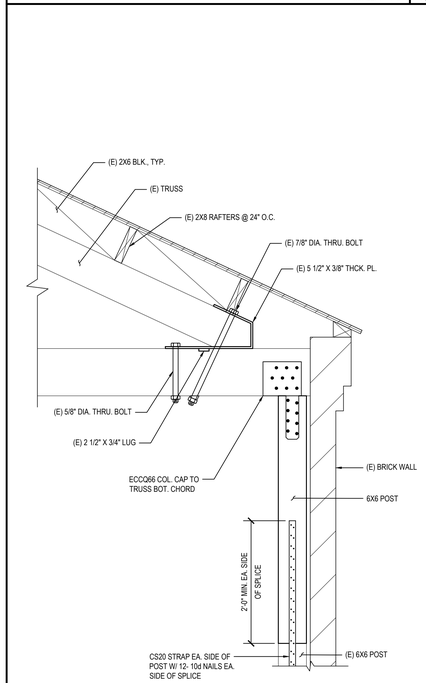
6



TYPICAL UNBLOCKED DIAPHRAGM NAILING

N.T.S.

2



TRUSS REPAIR DETAIL

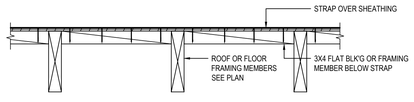
SCALE: 1 = 1'-0"

17

STRAP SCHEDULE

STRAP	END LENGTH*	END NAIL	END LENGTH** NAILING @ 3X/4X	END LENGTH** NAILING @ I-JST.
CMST12	39"	43- 10d	FILL ALL HOLES	FILL ALTERNATE HOLES IN ROWS
CMST14	30"	33- 10d		
CSMTC16	20"	25- 10d		
CS14	15"	13- 10d	FILL ALL HOLES	FILL ALTERNATE HOLES IN ROWS
CS16	11"	10- 10d		
CS18	9"	8- 10d		
CS20	7"	6- 10d		
CS22	6"	5- 10d		

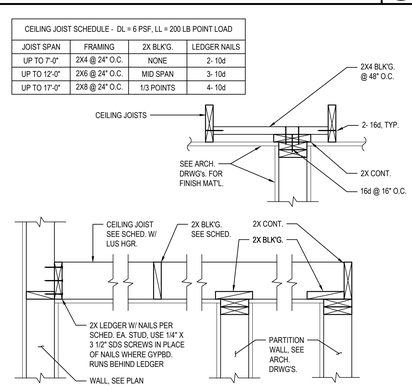
* END LENGTH @ I-JOISTS = 2.0 x END LENGTH
** MIN. SPACING W/ 10d NAIL INTO THE LVL FACE = 3" & INTO THE LVL EDGE = 4"



STRAP DETAIL

N.T.S.

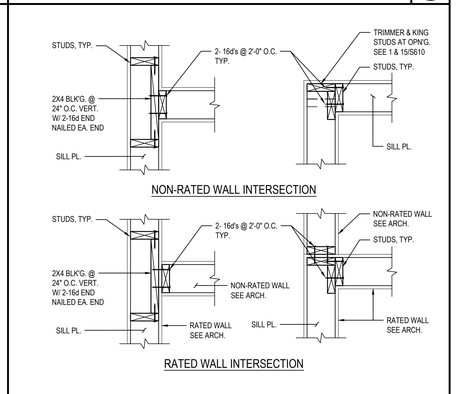
11



CEILING JOIST DETAILS

N.T.S.

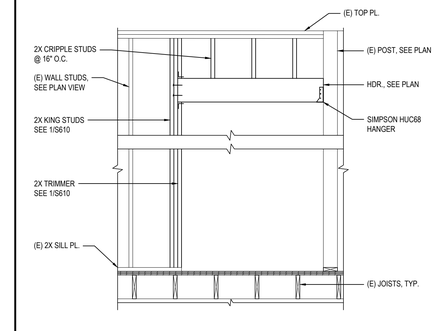
7



WALL INTERSECTIONS PLAN SECTIONS

N.T.S.

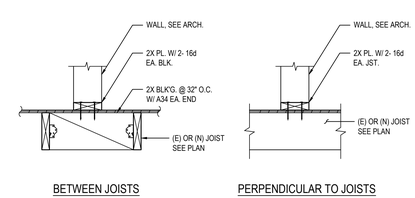
3



WALL ELEVATION AT (N) STAIR

N.T.S.

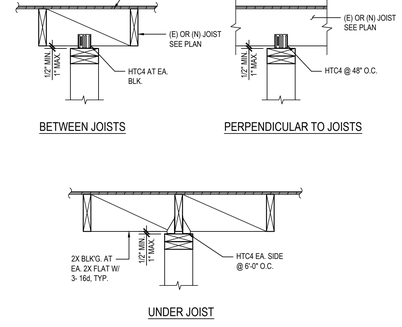
15



TYPICAL BOT OF NON-BEARING WALL TO FRAMING DETAIL

N.T.S.

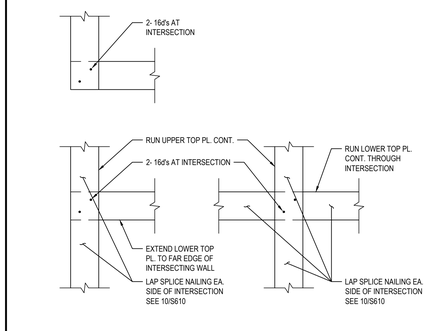
12



TYPICAL TOP OF NON-BEARING WALL TO FRAMING DETAIL

N.T.S.

8



TOP PLATE INTERSECTIONS

N.T.S.

4

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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TYPICAL
WOOD FRAMING
DETAILS & SECTIONS

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NMR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S610

Login Name: VivoR
Plot Date: October 01, 2025 - 11:14 am
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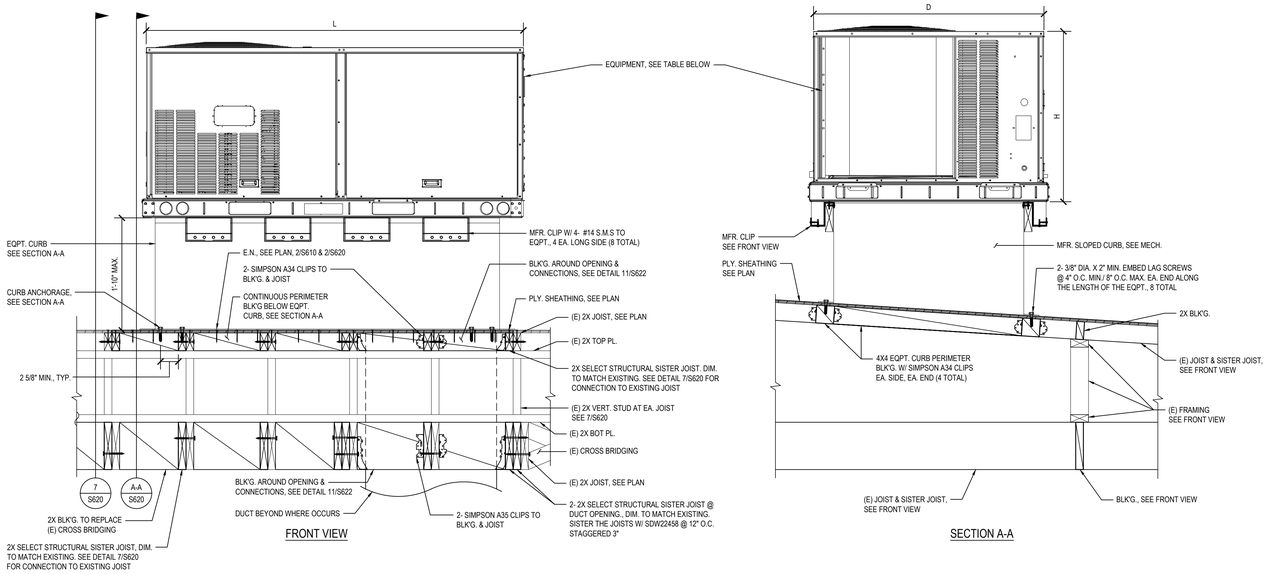
SCALE: 1:1

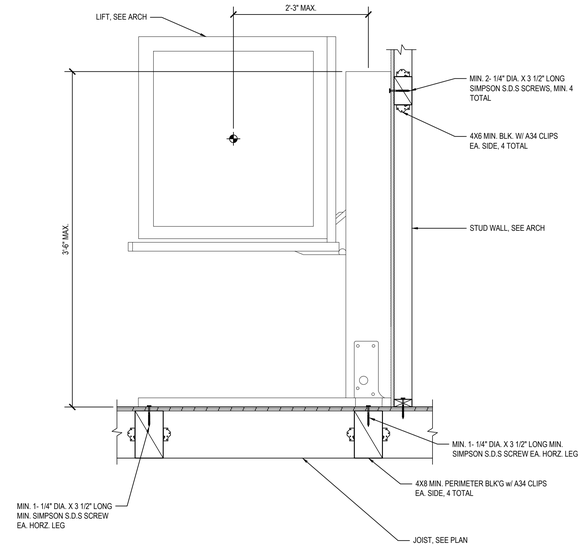


EQUIPMENT SCHEDULE

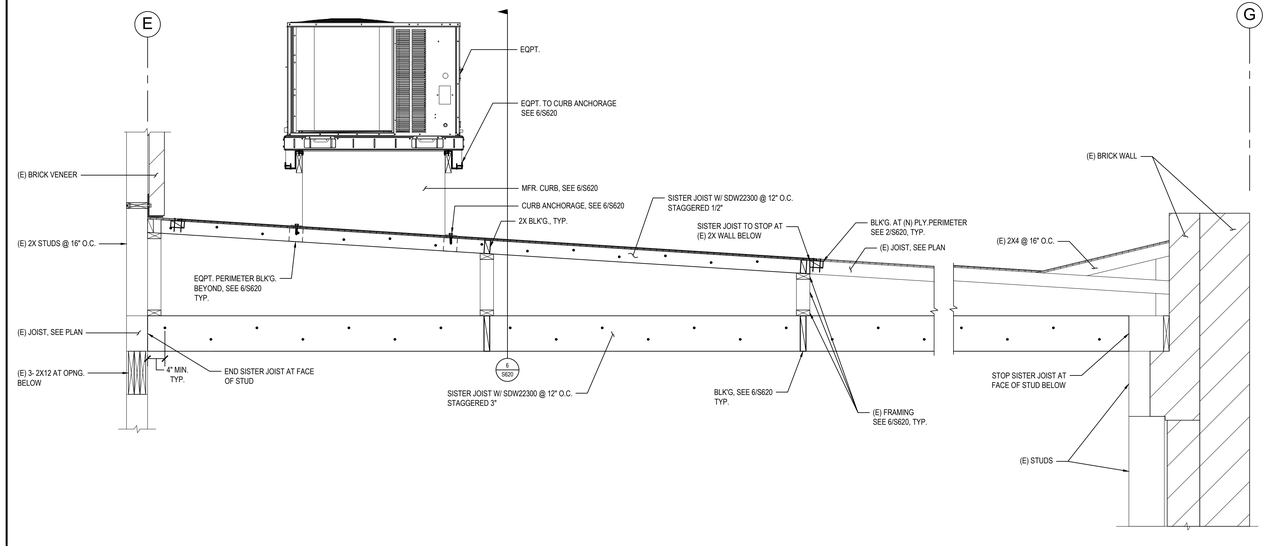
EQUIPMENT NAME	DIMENSIONS* (IN) LENGTH (L) X DEPTH (D) X HEIGHT (H)	C.G. (IN) (A.F.F.)	CALCULATION COEFFICIENTS			DESIGN WEIGHT (LBS)
			ap	Rp	z/h	
RTU-1	74.375 X 46.625 X 33.375	39 MAX.	2.5	6.0	1/1	1000 MAX.
RTU-2	74.375 X 46.625 X 33.375	39 MAX.	2.5	6.0	1/1	1000 MAX.
MAU	79 X 37.375 X 36.75	41 MAX.	2.5	6.0	1/1	1100 MAX.

* CONTRACTOR TO VERIFY DIMENSIONS

RTU 1,2 & MAU ANCHORAGE — SCALE: 1 = 1'-0" — 6

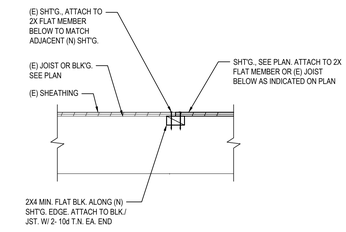


LIFT ANCHORAGE — SCALE: 1 = 1'-0" — 1



SECTION AT RTU 1, 2 & MAU — SCALE: 3/4" = 1'-0" — 7

NOT USED — N.T.S. — 4



BLOCKING AT NEW SHEATHING — SCALE: 1 = 1'-0" — 2

NOT USED — N.T.S. — 5

NOT USED — N.T.S. — 3

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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FRAMING & EQUIPMENT ANCHORAGE DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NMR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S620

Login Name: VKnFl
Plot Date: October 15, 2025 - 11:14 am
File Name: \\nmrchico-fs\NMR\Files\Sworks\21 Projects\021-6497 Tehama Co. Corning Vets Hall\02 DRWGS\021-6497 S620 WD01.dwg
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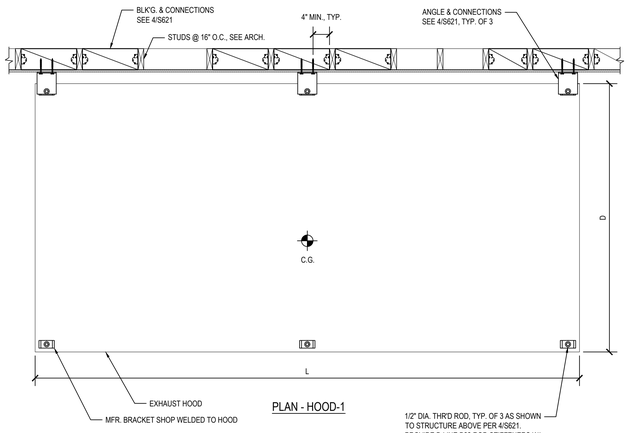
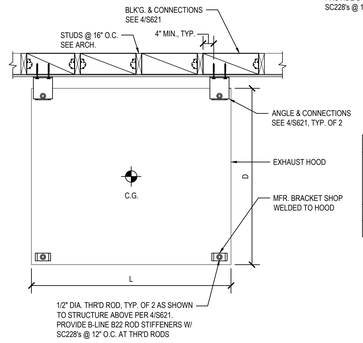


PLAN - HOOD-1

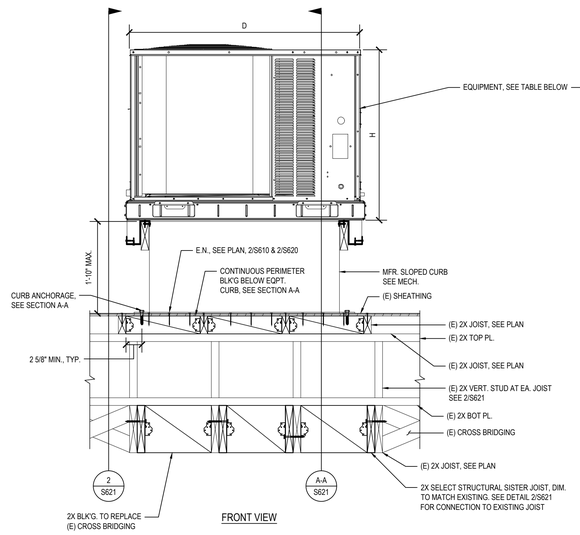


PLAN - HOOD-2

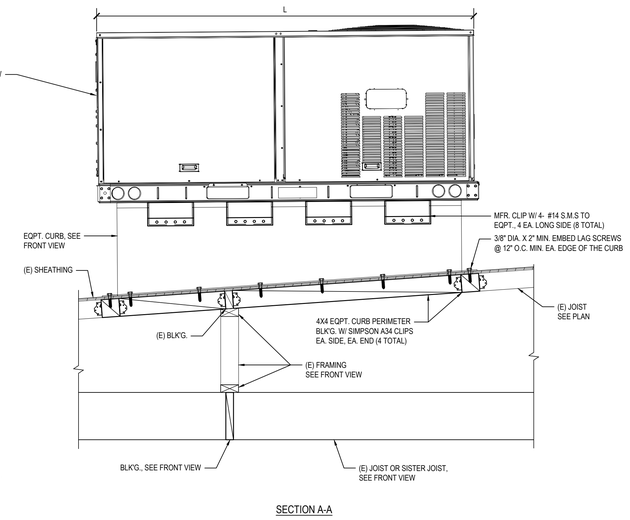
EQUIPMENT SCHEDULE						
EQUIPMENT NAME	DIMENSIONS* (IN) LENGTH (L) X DEPTH (D) X HEIGHT (H)	C.G. (IN) (A.F.F.)	CALCULATION COEFFICIENTS			DESIGN WEIGHT (LBS)
			ap	Rp	z/h	
HOOD -1	166 X 60 X 24	104 MAX.	2.5	6.0	1/1	1000 MAX.
HOOD -2	42 X 42 X 24	104 MAX.	2.5	6.0	1/1	200 MAX.

EXHAUST HOOD - PLAN VIEW

SCALE: 3/4" = 1'-0" (3)



FRONT VIEW



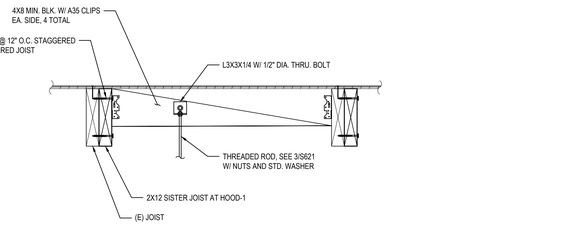
SECTION A-A

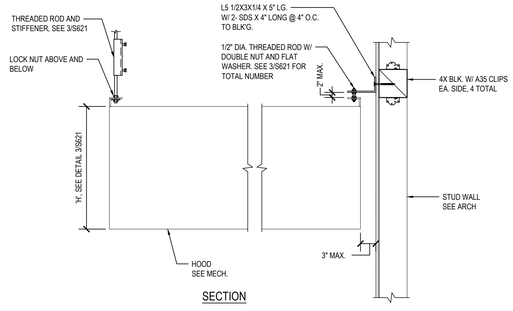
EQUIPMENT SCHEDULE						
EQUIPMENT NAME	DIMENSIONS* (IN) LENGTH (L) X DEPTH (D) X HEIGHT (H)	C.G. (IN) (A.F.F.)	CALCULATION COEFFICIENTS			DESIGN WEIGHT (LBS)
			ap	Rp	z/h	
RTU-3	74.375 X 46.625 X 41.125	42.5 MAX.	2.5	6.0	1/1	1300 MAX.

* CONTRACTOR TO VERIFY DIMENSIONS

HVAC UNIT ANCHORAGE

SCALE: 3/4" = 1'-0" (1)

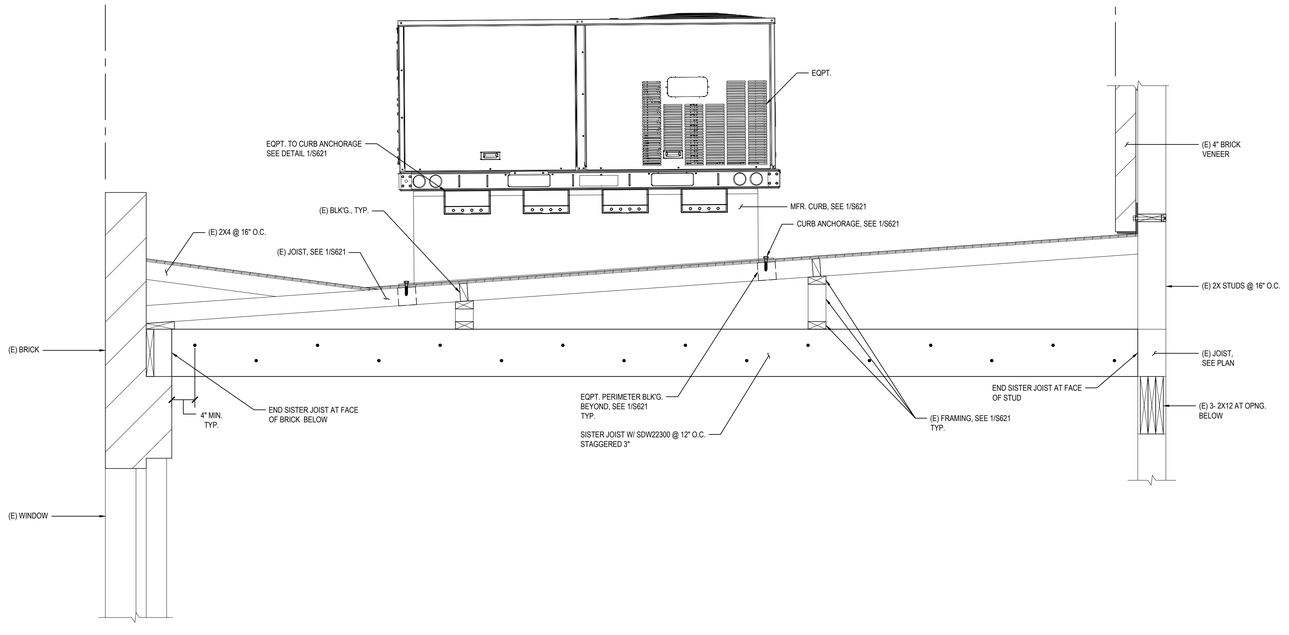




SECTION

SECTION AT EXHAUST HOOD

SCALE: 1 = 1'-0" (4)



SECTION AT RTU 3

SCALE: 3/4" = 1'-0" (2)

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(530) 891-1710 (530) 891-0138 FAX
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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FRAMING & EQUIPMENT ANCHORAGE DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	VR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S621

Login Name: VrnrR
Plot Date: October 15, 2025 - 11:14 am
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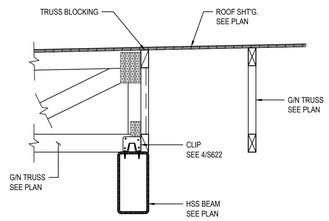
ARCH: X / ITEL

NOT USED
SCALE: 1 = 1'-0"
17

NOT USED
SCALE: 1 = 1'-0"
13

SECTION AT G/N TRUSS TRANSITION
SCALE: 1 = 1'-0"
9



HSS BEAM END DETAIL
SCALE: 1 = 1'-0"
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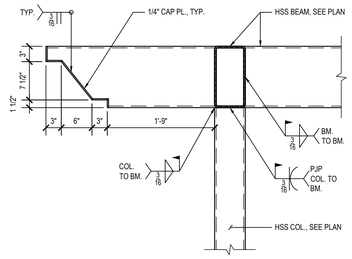

NOT USED
N.T.S.
1

NOT USED
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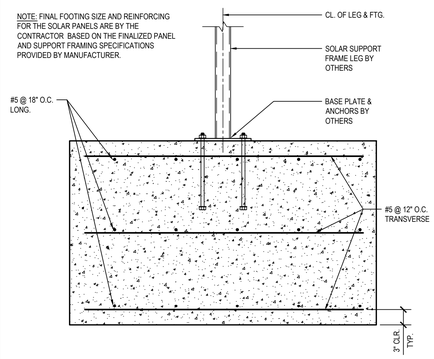
18

NOT USED
SCALE: 1 = 1'-0"
14

SOALR ARRAY FOOTING DETAIL
N.T.S.
10



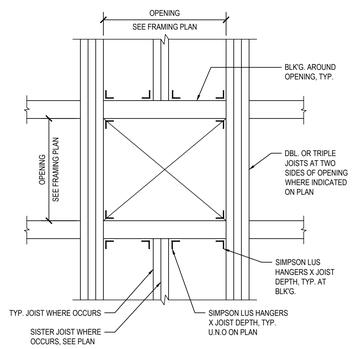
NOT USED
N.T.S.
6

NOT USED
N.T.S.
2

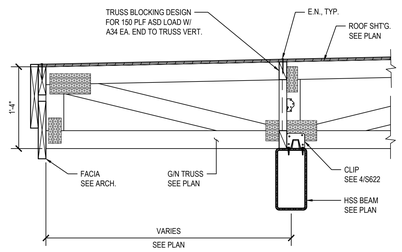
NOT USED
SCALE: 1 = 1'-0"
19

NOT USED
SCALE: 1 = 1'-0"
15

OPENING IN FLOOR FRAMING
SCALE: 1 = 1'-0"
11



G/N TRUSS EAVE SECTION
SCALE: 1 = 1'-0"
7

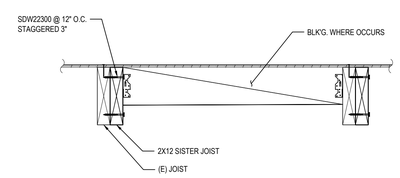


NOT USED
N.T.S.
3

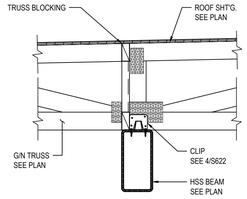
NOT USED
SCALE: 1 = 1'-0"
20

NOT USED
SCALE: 1 = 1'-0"
16

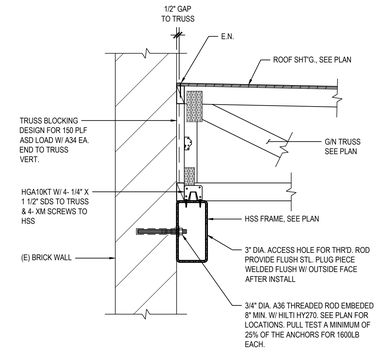
JOIST STRENGTHENING AT OPENINGS
SCALE: 1 = 1'-0"
12



G/N TRUSS INTERIOR BEARING SECTION
SCALE: 1 = 1'-0"
8



HSS LEDGER FRAME AT BACK ENTRY SECTION
SCALE: 1 = 1'-0"
4



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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FRAMING DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	NMR
Date Issued	10/15/2025
Scale	AS NOTED
Project No.	21-6497

SHEET No.

S622

Login Name: VictorR
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PAPER: 30 X 42

MECHANICAL LEGEND

SYMBOLS	ABBREVIATIONS	
	ABC	ABOVE CEILING
	AFF	ABOVE FINISHED FLOOR
AD	AD	ACCESS DOOR
12/8	AL	ACOUSTIC LINED DUCT (DIM IS INTERNAL)
	AC	AIR CONDITIONING
	BHP	BRAKE HORSE POWER
	CFM	CUBIC FEET PER MINUTE
A 123 CFM		DIFFUSER TAG
	D	DEMO
	DB	DRY BULB
12/8		DUCT (RECTANGULAR DUCT, DIMENSIONS IN INCHES)
12Ø		DUCT (ROUND DUCT, DIAMETER IN INCHES)
D		DUCT DROP IN DIRECTION OF ARROW
R		DUCT RISE IN DIRECTION OF ARROW
	EER	ENERGY EFFICIENCY RATIO
	EAT	ENTERING AIR TEMPERATURE
EA	EA	EXHAUST AIR DUCT
	EF	EXHAUST FAN
		EXHAUST GRILLE
	(E), EX	EXISTING
	ESP	EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
		FLEXIBLE DUCT
	FLA	FULL LOAD AMPS
	LAT	LEAVING AIR TEMPERATURE
L		LOUVERED DOOR
	MOCP	MAXIMUM OVER CURRENT PROTECTION
	MCA	MINIMUM CIRCUIT AMPACITY
M		MOTORIZED DAMPER
	(N)	NEW
		NEW CONNECTION TO EXISTING
	OA	OUTSIDE AIR
1 123 CFM		REGISTER/GRILLE TAG
	(R), R	RELOCATE
		REMOVE TO THIS POINT
RA	RA	RETURN AIR DUCT
		RETURN GRILLE
	RL/RS	REFRIGERANT LINE SET
	SEER	SEASONAL ENERGY EFFICIENCY RATIO
SD	SD	SMOKE DETECTOR
SA	SA	SUPPLY AIR DUCT
		SUPPLY DIFFUSER
T	T'STAT	THERMOSTAT (48" AFF TOP OF BOX)
	TSP	TOTAL STATIC PRESSURE
		TURNING VANES
	TYP	TYPICAL
UC		UNDERCUT DOOR
	UG	UNDERGROUND
	VIF	VERIFY IN FIELD
		VOLUME DAMPER - MANUAL OPERATION
	WB	WET BULB

ROOFTOP UNIT SCHEDULE

					Supply Fan					Cooling			Heating			Electrical Data					
ID	Area Served	Manufacturer	Model	Nominal Tonnage	SA CFM	OA CFM	DCV OA CFM	Ext S.P.	BHP	Total MBh	Sensible MBh	SEER/EER	Total MBh	HSPF	Electric Heat (kW)	Service	MCA	MOCP	Weight (lbs)	Dimensions	Notes
RTU-1	SOCIAL ROOM	CARRIER	50GCQJA04	3	1200	320	90	0.75	0.66	32.4	27.6	17/9.5	26.5	8.8	6.5	208/3/60	42	45	1200	74.5"L x 46.5"W x 33.5"H	1 - 10
RTU-2	BANQUET ROOM	CARRIER	50GCQJA04	3	1200	320	90	0.75	0.66	32.4	27.6	17/9.5	26.5	8.8	6.5	208/3/60	42	45	1200	74.5"L x 46.5"W x 33.5"H	1 - 10
RTU-3	OFFICE/LOBBY	CARRIER	50GCQJA06	5	1960	415	85	0.75	1.24	53.7	46.1	17/8.9	44.1	8.9	7.9	208/3/60	60	60	1500	74.5"L x 46.5"W x 41.5"H	1 - 10

NOTES:
1. HINGED ACCESS PANEL.
2. 14" HIGH PITCHED ROOF CURB, CONTRACTOR TO VERIFY ROOF SLOPE.
3. CANFAB 1105-ECV-BDZ-R ECONOMIZER WITH FIXED DRY BULB CONTROL AND BAROMETRIC RELIEF.
4. WIRED 7-DAY PROGRAMMABLE THERMOSTAT WITH SETPOINT ADJUSTMENT AND CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
5. ECOBLUE MULTISPEED SUPPLY FAN.
6. UNPOWERED CONVENIENCE OUTLET.
7. MERV 13 FILTERS.
8. INTEGRATE INTO JOHNSON CONTROLS BUILDING MANAGEMENT SYSTEM.
9. THROUGH THE BASE ELECTRICAL CONNECTION.
10. SINGLE POINT POWER CONNECTION WITH NON FUSED DISCONNECT.

HEAT PUMP SCHEDULE

					Cooling		Heating		Electrical Data						
ID	Service	Location	Manufacturer	Model	Rated Capacity Btu/h	Rating Conditions	Rated Capacity Btu/h	Rating Conditions	Service	MCA	MOCP	Refrigerant	Dimensions	Weight (lbs)	Notes
HP-1	AUDITORIUM	ROOF	DAIKIN	RXTQ60TBVJUA	57,500	80°F DB/67°F WB/95°F OAT	57,000	70°F DB/60°F WB/47°F OAT	208/1/60	29.1	35	R-410A	35-7/16"W x 52-15/16"H x 12-5/8"D	250	1
HP-2	AUDITORIUM	ROOF	DAIKIN	RXTQ60TBVJUA	57,500	80°F DB/67°F WB/95°F OAT	57,000	70°F DB/60°F WB/47°F OAT	208/1/60	29.1	35	R-410A	35-7/16"W x 52-15/16"H x 12-5/8"D	250	1
HP-3	AUDITORIUM	ROOF	DAIKIN	RXTQ60TBVJUA	57,500	80°F DB/67°F WB/95°F OAT	57,000	70°F DB/60°F WB/47°F OAT	208/1/60	29.1	35	R-410A	35-7/16"W x 52-15/16"H x 12-5/8"D	250	1
HP-4	AUDITORIUM	ROOF	DAIKIN	RXTQ60TBVJUA	57,500	80°F DB/67°F WB/95°F OAT	57,000	70°F DB/60°F WB/47°F OAT	208/1/60	29.1	35	R-410A	35-7/16"W x 52-15/16"H x 12-5/8"D	250	1
HP-5	STAGE	ROOF	DAIKIN	RXTQ60TBVJUA	57,500	80°F DB/67°F WB/95°F OAT	57,000	70°F DB/60°F WB/47°F OAT	208/1/60	29.1	35	R-410A	35-7/16"W x 52-15/16"H x 12-5/8"D	250	1
HP-6	STAGE	ROOF	DAIKIN	RXTQ60TBVJUA	57,500	80°F DB/67°F WB/95°F OAT	57,000	70°F DB/60°F WB/47°F OAT	208/1/60	29.1	35	R-410A	35-7/16"W x 52-15/16"H x 12-5/8"D	250	1
HP-7	KITCHEN	ROOF	DAIKIN	RXTQ60TBVJUA	57,500	80°F DB/67°F WB/95°F OAT	57,000	70°F DB/60°F WB/47°F OAT	208/1/60	29.1	35	R-410A	35-7/16"W x 52-15/16"H x 12-5/8"D	250	1

NOTES:
1. PROVIDE WITH ALL REQUIRED REFRIGERATION PIPING AND APPURTENANCES.

FAN COIL UNIT SCHEDULE

								Cooling					Supplemental Heat Electrical Data				Electrical Data					
ID	Manufacturer	Model	System	SA CFM	OA CFM	DCV OA CFM	ESP	Nominal Tonnage	Total MBh	Sensible MBh	Refrigerant	Heating MBh	kW	Service	MCA	MOCP	Service	MCA	MOCP	Dimensions	Weight (lbs)	Notes
FC-1	DAIKIN	FXTQ60TAVJUA	HP-1	1,800	540	120	0.9"	5	57.5	39	R-410A	57	10	208/1/60	48.8	50	208/1/60	8.6	15	24-1/2"W x 58"H x 21"D	250	1 - 4
FC-2	DAIKIN	FXTQ60TAVJUA	HP-2	1,800	540	120	0.9"	5	57.5	36	R-410A	57	10	208/1/60	48.8	50	208/1/60	8.6	15	24-1/2"W x 58"H x 21"D	250	1 - 4
FC-3	DAIKIN	FXTQ60TAVJUA	HP-3	1,800	540	120	0.9"	5	57.5	36	R-410A	57	10	208/1/60	48.8	50	208/1/60	8.6	15	24-1/2"W x 58"H x 21"D	250	1 - 4
FC-4	DAIKIN	FXTQ60TAVJUA	HP-4	1,800	540	120	0.9"	5	57.5	36	R-410A	57	10	208/1/60	48.8	50	208/1/60	8.6	15	24-1/2"W x 58"H x 21"D	250	1 - 4
FC-5	DAIKIN	FXTQ60TAVJUA	HP-5	1,800	540	120	0.9"	5	57.5	36	R-410A	57	10	208/1/60	48.8	50	208/1/60	8.6	15	24-1/2"W x 58"H x 21"D	250	1 - 4
FC-6	DAIKIN	FXTQ60TAVJUA	HP-6	1,800	540	120	0.9"	5	57.5	36	R-410A	57	10	208/1/60	48.8	50	208/1/60	8.6	15	24-1/2"W x 58"H x 21"D	250	1 - 4
FC-7	DAIKIN	FXTQ60TAVJUA	HP-7	1,800	200	--	0.9"	5	57.5	36	R-410A	57	--	--	--	--	208/1/60	8.6	15	24-1/2"W x 58"H x 21"D	250	1 - 3

NOTES:
1. MERV 13 FILTER IN HONEYWELL FILTER RACK. SEE PLANS FOR DETAILS.
2. DIVERITECH CONDENSATE CS-2 SWITCH WIRED TO UNIT FOR OVERFLOW PROTECTION.
3. INTERCONNECTION INTO JOHNSON CONTROLS BUILDING MANAGEMENT SYSTEM. PROVIDE WITH CO2 SENSOR AND THERMOSTAT.
4. ECONOMIZING MIXING BOX.

MAKEUP AIR UNIT SCHEDULE

				Supply Fan			Gas Heating Section			Evaporative Cooler		Electrical Data				
ID	Manufacturer	Model	Location Served	Supply CFM	Ext. S.P.	Motor HP	Input MBh	Output MBh	Fuel	Media	EAT/LAT	Service	MCA	MOCP	Weight (lbs)	Notes
MAU-1	CAPTIVEAIRE	A2-D.250-20D	KITCHEN	2,730	0.5	1.5	132	121	NATURAL GAS	CELDEK	105°F EAT/83°F LAT	208/3/60	8.3	15	1,100	1-5

NOTES:
1. HORIZONTAL CONFIGURATION WITH FRONT DISCHARGE.
2. GALVANIZED MOTORIZED BACKDRAFT DAMPER.
3. EVAPORATIVE COOLING MODULE WITH 90% EFFICIENT 12" CELDEK MEDIA, 2" ALUMINUM MESH FILTERS AND A STAINLESS STEEL COOLING MODULE.
4. PROVIDE AUTOMATIC DRAIN AND FILL KIT FOR EVAPORATIVE COOLING MODULE.
5. MANUFACTURER'S SLOPED ROOF CURB AND EQUIPMENT SUPPORT. CONTRACTOR SHALL CONFIRM ROOF SLOPE PRIOR TO ORDERING EQUIPMENT.

LOUVER SCHEDULE

ID	Manufacturer	Model	CFM	Size	Velocity (fpm)	Free Area (sf)	Pressure Drop	Notes
L-1	RUSKIN	ELF6375DX	200	27"x27"	78	2.56	0.00	1 - 2

NOTES:
1. COORDINATE FINAL FINISH WITH ARCHITECT
2. LOUVER SHALL BE LOCATED AT WINDOW TO BE REMOVED. CONFIRM FINAL DIMENSIONS OF OPENING PRIOR TO ORDERING LOUVER.

EXHAUST HOOD SCHEDULE

ID	Location	Manufacturer	Model	Max Temp.	Length	Width	Filter	Light	Weight Lbs.	Notes
EH-1	KITCHEN	CAPTIVEAIRE	6024 ND-2	600°F	14' - 0"	5' - 0"	CAPTRATE SOLO	RECESSED ROUND	1,000	1 - 10
EH-2	KITCHEN	CAPTIVEAIRE	4224 VHB-G	700°F	3' - 6"	3' - 6"	--	--	250	

NOTES:
1. PROVIDE WITH EXTERNAL FACTORY EXTERNAL SUPPLY PLENUM FOR MAU AIR.
2. UL 710 LISTED WITHOUT EXHAUST FIRE DAMPER.
3. PERFORMANCE ENHANCING LIP.
4. 3" WIDE INTEGRAL AIR SPACE ON BACK.
5. REMOVABLE GREASE CUP WITH CONCEALED GREASE TROUGH IN INTEGRAL AIR SPACE.
6. ANSUL R-102 FIRE SUPPRESION SYSTEM.
7. 430 SS 100% CONSTRUCTION WITH GALVANIZED STEEL HANGER BRACKETS.
8. EMBOSSED STAINLESS STEEL FINISH.
9. FACTORY MOUNTED EXHAUST COLLARS.
10. 403 SS WITH GALVANIZED STEEL HANGER BRACKETS.

EXHAUST FAN SCHEDULE

ID	Location	Manufacturer	Model	CFM	S.P.	Fan Drive	Service	Motor HP	FLA	Weight (lbs)	Notes
EF-1	ROOF	CAPTIVEAIRE	USBI13DD-RM	3,043	1.0	DIRECT	208/3/60	1.5	4.4	300	1 - 2
EF-2	ROOF	CAPTIVEAIRE	DU30HFA	525	0.5	DIRECT	115/1/60	0.25	3.0	125	2
EF-3	MENS RR	GREENHECK	CSP-A390-VG	280	0.25	DIRECT	115/1/60	--	1.5	30	3
EF-4	JAN AND WOMEN'S RR	GREENHECK	SQ-98-VG	265	0.75	DIRECT	115/1/60	1/4	2.85	75	4

NOTES:
1. VERTICAL UPPER LEFT DISCHARGE WITH CW INLET FLANGED GREASE DUCT CONNECTION, 24" DISCHARGE EXTENSION, GREASE TRAP WITH DRAIN CONNECTION AND HEAT BAFFLE.
2. INTERLOCK WITH CAPTIVE AIRE CONTROLS
3. CEILING EXHAUST FAN WITH MANUFACTURER'S ROOF JACK
4. INLINE EXHAUST FAN LOCATED ABOVE BALCONY CEILING.

AIR INLET SCHEDULE

ID	Manufacturer	Model	Mounting	Module Size	Face Size	Neck Size	Material	Finish	Notes
1	TITUS	50F	LAY-IN	24" x 24"	18" x 18"	SEE PLANS	ALUMINUM	#26 WHITE	1
2	TITUS	50F	SURFACE	12" x 12"	12" x 12"	SEE PLANS	ALUMINUM	#26 WHITE	1
3	TITUS	355RL	WALL	18" x 18"	18" x 18"	--	STEEL	#26 WHITE	2 - 3

NOTES:
1. EGGCRATE RETURN GRILLE.
2. STEEL LOUVERED RETURN GRILLE.
3. 1/2" BLADE SPACING, 35° DEFLECTION, BLADES PARALLEL TO LONG DIMENSION.

AIR OUTLET SCHEDULE

ID	Manufacturer	Model	Mounting	Module Size	Face Size	Neck Size	Material	Finish	Notes
A	TITUS	272FL	WALL	16" x 8"	16" x 8"	--	STEEL	#26 WHITE	1
B	TITUS	TDC	SURFACE	12" x 12"	12" x 12"	SEE PLANS	STEEL	#26 WHITE	2
C	TITUS	TDC	LAY-IN	24" x 24"	18" x 18"	SEE PLANS	STEEL	#26 WHITE	2
D	TITUS	PAS	LAY-IN	24" x 24"	18" x 18"	SEE PLANS	STEEL	#26 WHITE	3

NOTES:
1. AEROBLADE DOUBLE DEFLECTION SUPPLE GRILLE, 3/4" BLADE SPACING.
2. 4-WAY THROW.
3. PERFORATED FACE.

HIGH VOLUME LOW SPEED FAN SCHEDULE

				Fan			Electrical Data			
ID	Manufacturer	Model	Series	Diameter	RPM	Watts	Service	Weight (lbs)	Notes
HVLS-1	BIG ASS FANS	MK-I61-05	INDOOR I6	5 FEET	140	36	208/1/60	40	1 - 5
HVLS-2	BIG ASS FANS	MK-I61-05	INDOOR I6	5 FEET	140	36	208/1/60	40	1 - 5
HVLS-3	BIG ASS FANS	MK-I61-05	INDOOR I6	5 FEET	140	36	208/1/60	40	1 - 5
HVLS-4	BIG ASS FANS	MK-I61-05	INDOOR I6	5 FEET	140	36	208/1/60	40	1 - 5
HVLS-5	BIG ASS FANS	MK-I61-05	INDOOR I6	5 FEET	140	36	208/1/60	40	1 - 5
HVLS-6	BIG ASS FANS	MK-I61-05	INDOOR I6	5 FEET	140	36	208/1/60	40	1 - 5
HVLS-7	BIG ASS FANS	MK-I61-05	INDOOR I6	5 FEET	140	36	208/1/60	40	1 - 5
HVLS-8	BIG ASS FANS	MK-I61-05	INDOOR I6	5 FEET	140	36	208/1/60	40	1 - 5

NOTES:
1. FIXED WALL MOUNT CONTROLLER.
2. PROVIDE WITH 60" DOWNROD AND MOUNT AT 15'-0" ABOVE FINISHED FLOOR.
3. DIRECT DRIVE MOTOR.
4. SAFETY CABLES SHALL BE 1.5MM IN DIAMETER AND FABRICATED OUT OF AIRCRAFT STAINLESS STEEL.
5. OIL RUBBED BRONZE FINISH.

INTAKE/RELIEF HOOD SCHEDULE

ID	Manufacturer	Model	Service	CFM	Throat Size	Velocity (fpm)	Free Area (sf)	Pressure Drop	Weight (lbs.)	Notes
IH-1	GREENHECK	FGI-22X22	FC-1	1800	22"X22"	536	3.4	0.05	150	1, 2
IH-2	GREENHECK	FGI-22X22	FC-2	1800	22"X22"	536	3.4	0.05	150	1, 2
IH-3	GREENHECK	FGI-22X22	FC-3	1800	22"X22"	536	3.4	0.05	150	1, 2
IH-4	GREENHECK	FGI-22X22	FC-4	1800	22"X22"	536	3.4	0.05	150	1, 2
IH-5	GREENHECK	FGI-22X22	FC-5	1800	22"X22"	536	3.4	0.05	150	1, 2
IH-6	GREENHECK	FGI-22X22	FC-6	1800	22"X22"	536	3.4	0.05	150	1, 2
RH-1	GREENHECK	FGR-46X50	AUDITORIUM	5400	46"X50"	338	16	0.02	325	1 - 3
RH-2	GREENHECK	FGR-46X50	AUDITORIUM	5400	46"X50"	338	16	0.02	325	1 - 3
RH-3	GREENHECK	FGR-12X12	AUDITORIUM	265	12"X12"	265	1	0.01	100	1 - 3

NOTES:
1. INSECT SCREEN.
2. MANUFACTURER'S 14" ROOF CURB SLOPED TO MATCH ROOF. CONTRACTOR TO CONFIRM SLOPE PRIOR TO ORDERING.
3. COUNTERBALANCED BACKDRAFT DAMPER.

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LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL LEGEND
AND SCHEDULES

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

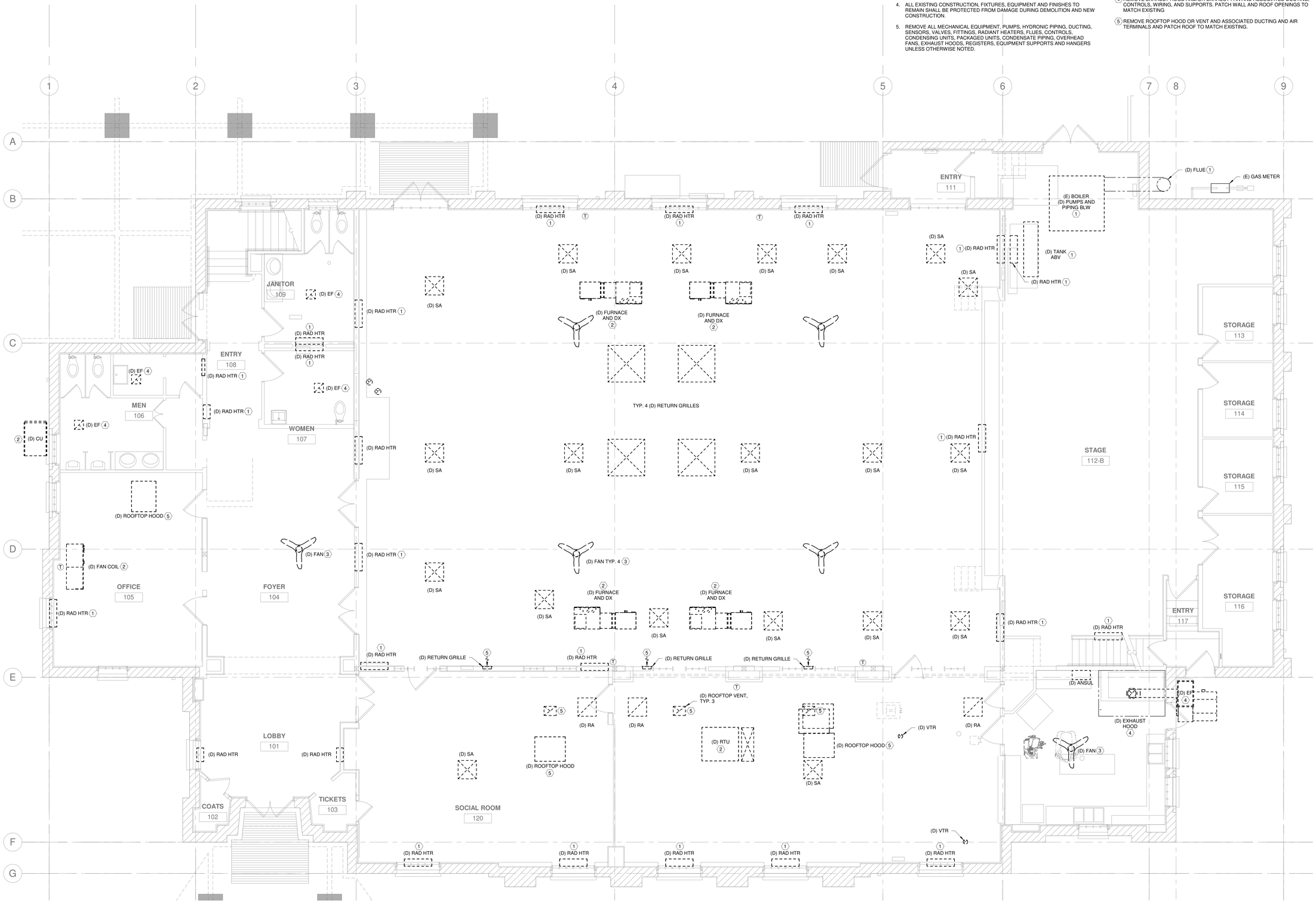
M100

GENERAL NOTES:

1. FIELD-VERIFY EXISTING CONSTRUCTION DEPICTED IN THESE DRAWINGS AS IT IS UNCOVERED DURING CONSTRUCTION. NOTIFY THE COUNTY PROMPTLY IF EXISTING CONDITIONS ARE NOT AS INDICATED.
2. COORDINATE DEMOLITION WORK OF ALL DISCIPLINES WITH LOCATIONS AND DIMENSIONS OF NEW CONSTRUCTION INDICATED IN THESE DRAWINGS. PRIOR TO COMMENCING ANY DEMOLITION WORK, COORDINATE WITH APPROVED SHOP DRAWINGS AND MANUFACTURER'S DATA FOR NEW SYSTEMS, EQUIPMENT, FEATURES OF CONSTRUCTION AND TEMPORARY AND FINAL CONDITIONS AS INDICATED INTHESE DOCUMENTS
3. DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT, AND FINISHES SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER, WITH CLEAN, STRAIGHT EDGES SUITABLE TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
4. ALL EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT AND FINISHES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION.
5. REMOVE ALL MECHANICAL EQUIPMENT, PUMPS, HYDRONIC PIPING, DUCTING, SENSORS, VALVES, FITTINGS, RADIANT HEATERS, FLUES, CONTROLS, CONDENSING UNITS, PACKAGED UNITS, CONDENSATE PIPING, OVERHEAD FANS, EXHAUST HOODS, REGISTERS, EQUIPMENT SUPPORTS AND HANGERS UNLESS OTHERWISE NOTED.

KEYED NOTES:

1. EXISTING BOILER TO BE REMOVED. REMOVE ALL BOILER SYSTEM PUMPS, RADIANT HEATERS, HYDRONIC PIPING, EXPANSION TANKS, SUPPORTS, ELECTRICAL CONNECTIONS, GAS PIPING, FLUES, WIRING, DISCONNECTS, AND CONTROLS. PATCH ALL FLOOR, WALL AND ROOF OPENINGS TO MATCH EXISTING.
2. REMOVE DX/FURNACES, FAN COILS, CONDENSING UNITS, PACKAGED ROOFTOP UNIT AND ALL ASSOCIATED AIR TERMINALS, DUCTING, REFRIGERANT PIPING, THERMOSTATS, FLUE PIPING, CONTROLS, WIRING, SUPPORTS, CONDENSATE PIPING, GAS PIPING BACK TO MAIN. PATCH WALLS AND ROOF TO MATCH EXISTING.
3. REMOVE OVERHEAD FAN AND ASSOCIATED CONTROLS, WIRING, AND SUPPORTS.
4. REMOVE EXHAUST HOOD AND/OR EXHAUST FAN AND ASSOCIATED DUCTING, CONTROLS, WIRING, AND SUPPORTS. PATCH WALL AND ROOF OPENINGS TO MATCH EXISTING
5. REMOVE ROOFTOP HOOD OR VENT AND ASSOCIATED DUCTING AND AIR TERMINALS AND PATCH ROOF TO MATCH EXISTING.



1 M200 MECHANICAL DEMOLITION FIRST FLOOR PLAN
1/4" = 1'-0"

N

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER JASON T. MUNKELT M38647 EXP. 9-30-2025 MECHANICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL DEMOLITION FIRST FLOOR PLAN

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REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

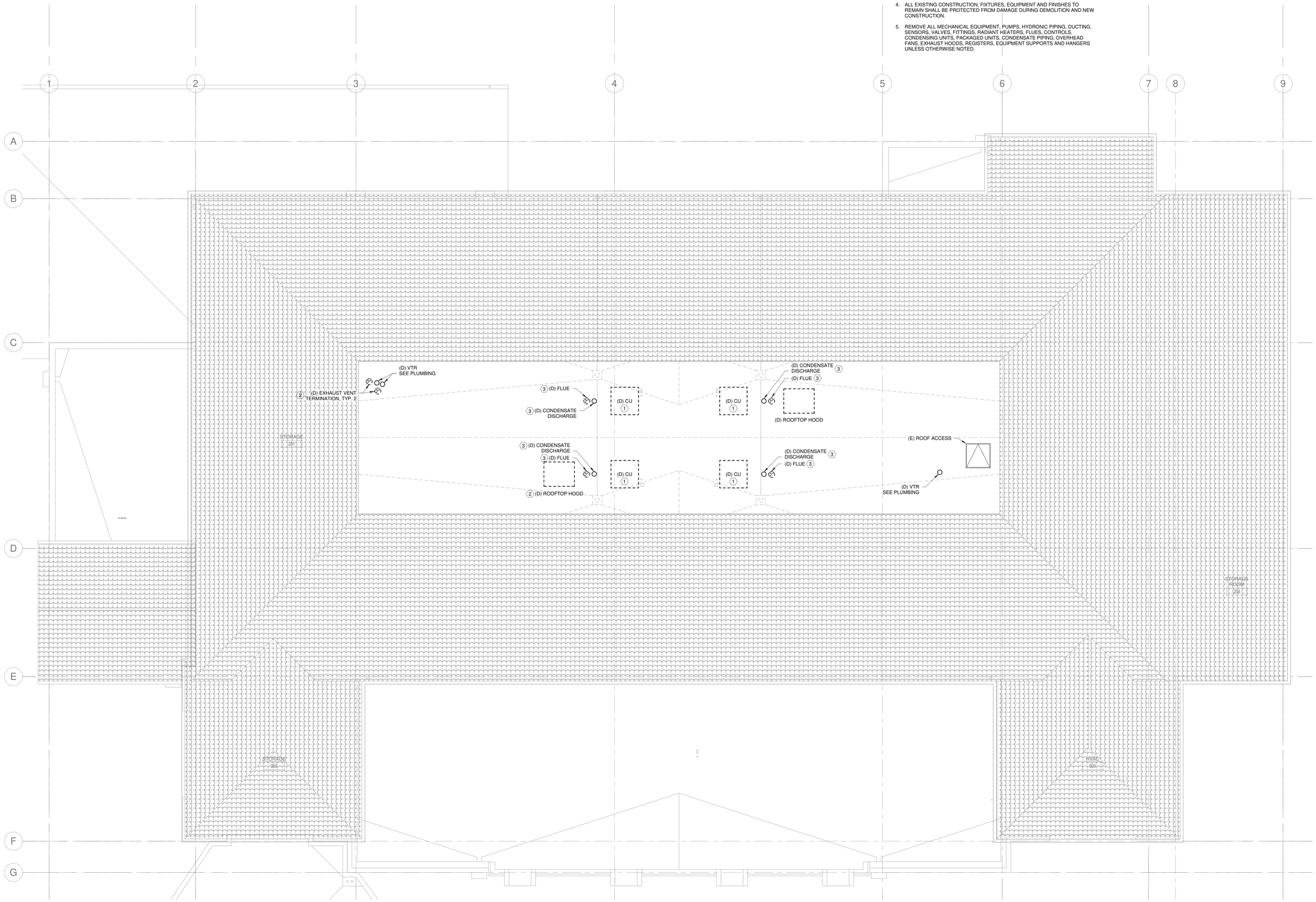
M200

GENERAL NOTES:

1. FIELD-VERIFY EXISTING CONSTRUCTION DEPICTED IN THESE DRAWINGS AS IT IS UNCOVERED DURING CONSTRUCTION. NOTIFY THE COUNTY PROMPTLY IF EXISTING CONDITIONS ARE NOT AS INDICATED.
2. COORDINATE DEMOLITION WORK OF ALL DISCIPLINES WITH LOCATIONS AND DIMENSIONS OF NEW CONSTRUCTION INDICATED IN THESE DRAWINGS. PRIOR TO COMMENCING ANY DEMOLITION WORK, COORDINATE WITH APPROVED SHOP DRAWINGS AND MANUFACTURER'S DATA FOR NEW SYSTEMS, EQUIPMENT, FEATURES OF CONSTRUCTION AND TEMPORARY AND FINAL CONDITIONS AS INDICATED INTHESE DOCUMENTS
3. DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT, AND FINISHES SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER, WITH CLEAN, STRAIGHT EDGES SUITABLE TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
4. ALL EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT AND FINISHES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION.
5. REMOVE ALL MECHANICAL EQUIPMENT, PUMPS, HYDRONIC PIPING, DUCTING, SENSORS, VALVES, FITTINGS, RADIANT HEATERS, FLUES, CONTROLS, CONDENSING UNITS, PACKAGED UNITS, CONDENSATE PIPING, OVERHEAD FANS, EXHAUST HOODS, REGISTERS, EQUIPMENT SUPPORTS AND HANGERS UNLESS OTHERWISE NOTED.

KEYED NOTES:

1. REMOVE CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT PIPING, THERMOSTATS, CONTROLS, WIRING, AND SUPPORTS. PATCH ROOF TO MATCH EXISTING
2. REMOVE ROOFTOP HOOD OR VENT AND ASSOCIATED DUCTING AND AIR TERMINALS AND PATCH ROOF TO MATCH EXISTING.
3. REMOVE ROOFTOP CONDENSATE AND FLUE. PATCH ROOF TO MATCH EXISTING.



1 M201 MECHANICAL DEMOLITION ROOF PLAN
1/4" = 1'-0"

N

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JASON T. MUNN
M 38847
EXP. 9-30-2025
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL
DEMOLITION ROOF PLAN

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

M201

GENERAL NOTES:

1. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION OF SWITCHES, THERMOSTATS, TEMPERATURE SENSORS AND CO2 SENSORS.
2. MOUNT SWITCHES, THERMOSTATS, TEMPERATURE SENSORS AND CO2 SENSORS AT 48" ABOVE FINISHED FLOOR.

1 M210 MECHANICAL ZONING PLAN
1/4" = 1'-0"

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STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL ZONING PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

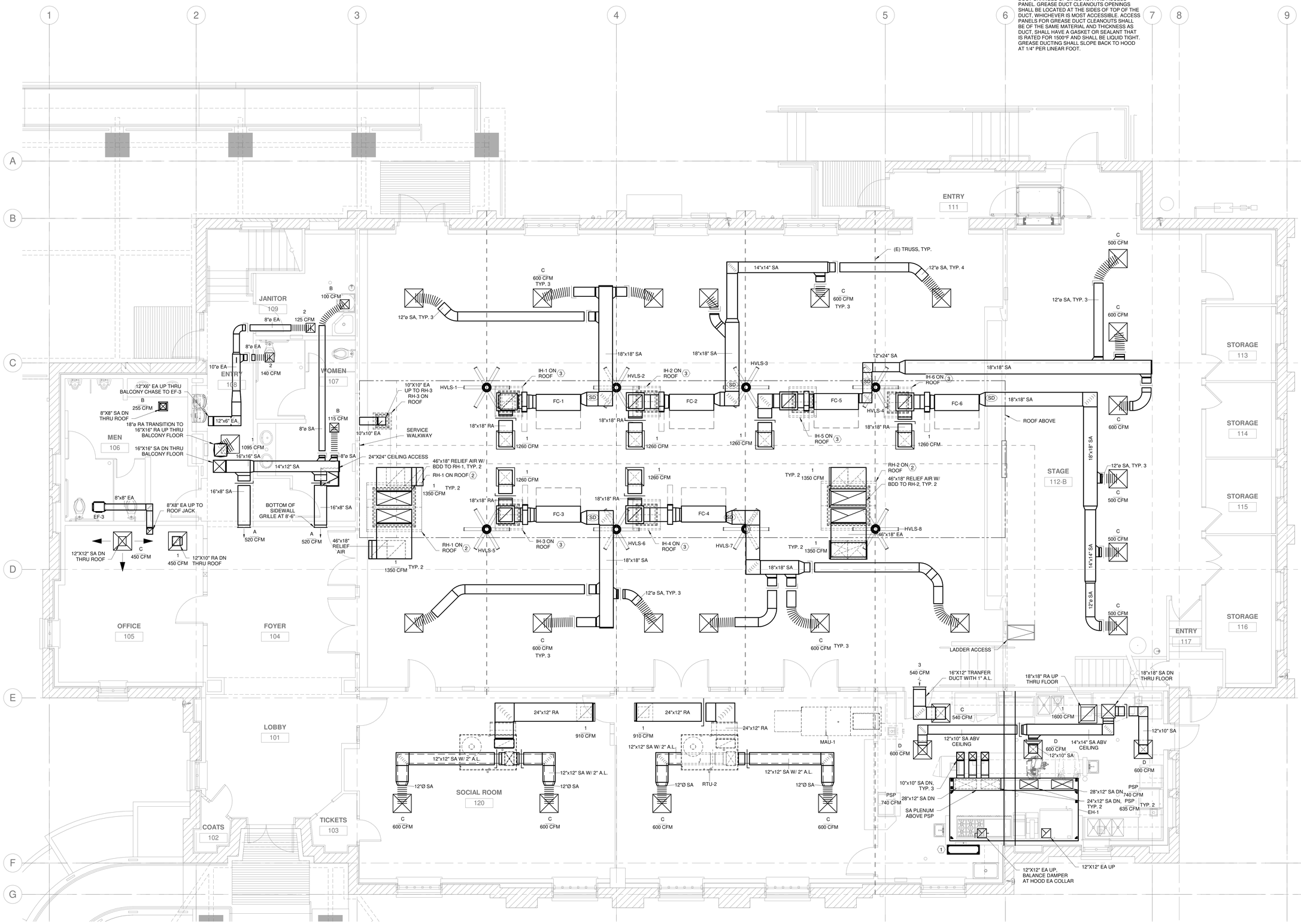
M210

GENERAL NOTES:

1. PRIOR TO INSTALLATION, COORDINATE ALL EQUIPMENT LOCATIONS AND DUCT PATHWAYS WITH ROOF PENETRATIONS, STORM DRAINAGE PIPING AND SERVICE CLEARANCES. MAINTAIN AN ACCESSIBLE PATHWAY TO AND FROM EQUIPMENT FOR EQUIPMENT SERVICING. EQUIPMENT SHALL BE HUNG AS HIGH AS POSSIBLE TO MAXIMIZE CONDENSATE DRAINAGE RUN LENGTHS. COORDINATE WITH ALL TRADES.
2. PROVIDE GREASE EXHAUST DUCT CLEANOUTS AT DUCT CHANGES OF DIRECTION AND ACCESS PANEL. GREASE DUCT CLEANOUTS OPENINGS SHALL BE LOCATED AT THE SIDES OF TOP OF THE DUCT, WHICHEVER IS MOST ACCESSIBLE. ACCESS PANELS FOR GREASE DUCT CLEANOUTS SHALL BE OF THE SAME MATERIAL AND THICKNESS AS DUCT, SHALL HAVE A GASKET OR SEALANT THAT IS RATED FOR 1500°F AND SHALL BE LIQUID TIGHT. GREASE DUCTING SHALL SLOPE BACK TO HOOD AT 1/4" PER LINEAR FOOT.

KEYED NOTES:

1. WALL MOUNTED UTILITY FIRE AND ANSUL CABINET.
2. RELIEF GRILLES AND DUCTING UP TO RELIEF HOOD. DUCTING SHALL BE FULL SIZE OF HOOD THROAT BUT SHALL SPLIT BETWEEN EXISTING ROOF FRAMING MEMBERS.
3. TWO (2) 1" INSULATED 20"X8" OUTSIDE AIR DUCTS FROM INTAKE HOOD, SPLIT AROUND BDL 2X8 ROOF FRAMING INTO ONE (1) 18"X18" OUTSIDE AIR BELOW FRAMING DOWN TO ECONOMIZING MIXING BOX.



1 M211 MECHANICAL FIRST FLOOR PLAN
1/4" = 1'-0"

N

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PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL FIRST FLOOR PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

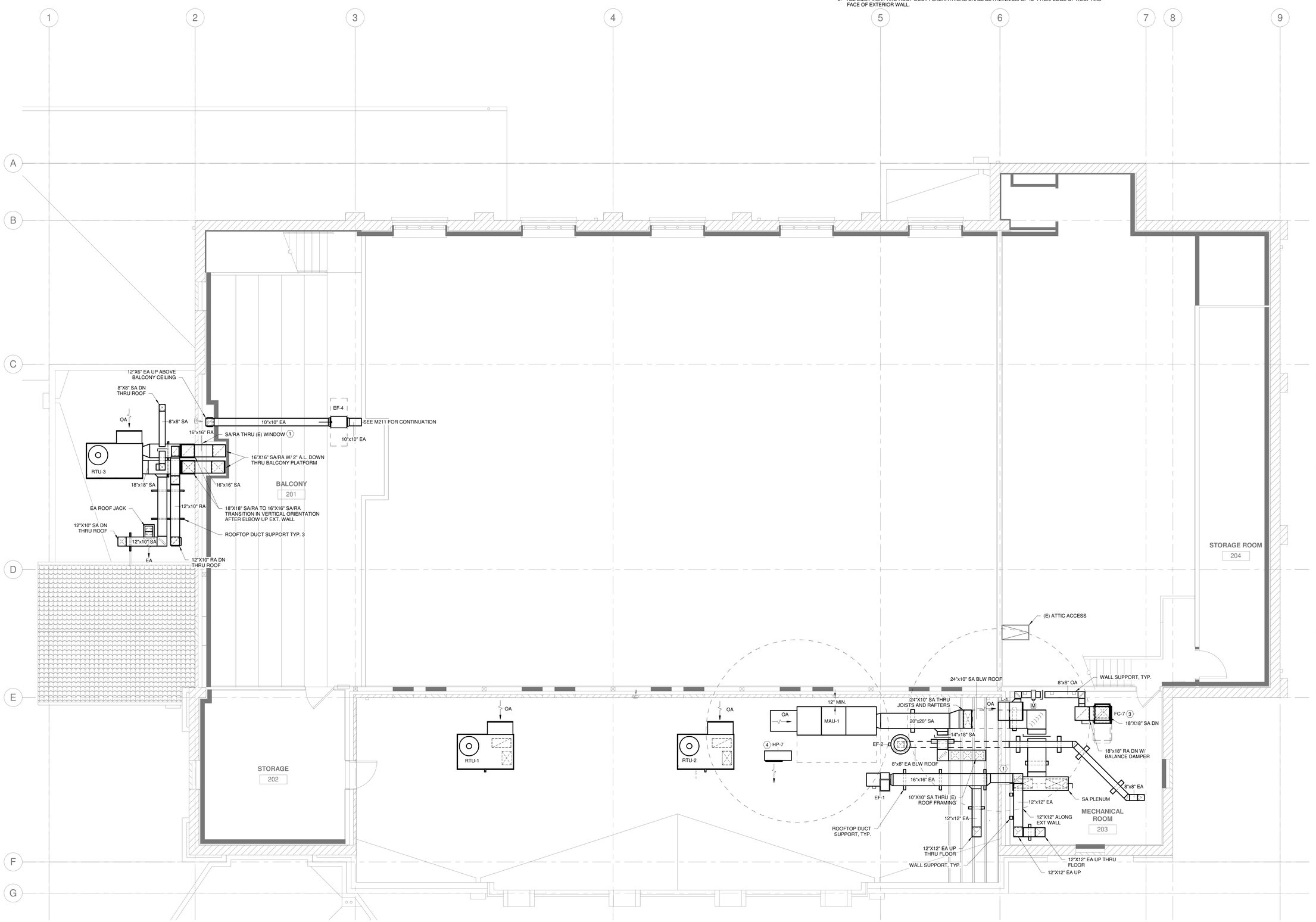
M211

GENERAL NOTES:

1. PRIOR TO INSTALLATION, COORDINATE ALL EQUIPMENT LOCATIONS AND DUCT PATHWAYS WITH ROOF PENETRATIONS, STORM DRAINAGE PIPING AND SERVICE CLEARANCES. MAINTAIN AN ACCESSIBLE PATHWAY TO AND FROM EQUIPMENT FOR EQUIPMENT SERVICING. EQUIPMENT SHALL BE HUNG AS HIGH AS POSSIBLE TO MAXIMIZE CONDENSATE DRAINAGE RUN LENGTHS. COORDINATE WITH ALL TRADES.
2. PROVIDE GREASE EXHAUST DUCT CLEANOUTS AT DUCT CHANGES OF DIRECTION AND ACCESS PANEL. GREASE DUCT CLEANOUTS OPENINGS SHALL BE LOCATED AT THE SIDES OF TOP OF THE DUCT, WHICHEVER IS MOST ACCESSIBLE. ACCESS PANELS FOR GREASE DUCT CLEANOUTS SHALL BE OF THE SAME MATERIAL AND THICKNESS AS DUCT, SHALL HAVE A GASKET OR SEALANT THAT IS RATED FOR 1500° F AND SHALL BE LIQUID TIGHT. GREASE DUCTING SHALL SLOPE BACK TO HOOD AT 1/4" PER LINEAR FOOT.
3. ALL EQUIPMENT AND ROOF DUCT PENERATRIONS SHALL BE A MINIMUM OF 12" FROM EDGE OF ROOF AND FACE OF EXTERIOR WALL.

KEYED NOTES:

1. DUCTING THROUGH EXISTING WINDOW OPENING. MODIFY EXTERIOR WALL AS REQUIRED TO ACCOMMODATE DUCT PENETRATION. SEE EXTERIOR WALL DUCT PENETRATION DETAIL ON M301.
2. MODIFY BALCONY FRAMING AS REQUIRED TO FRAME OUT OPENING FOR DUCT PENETRATION THROUGH FLOOR.
3. FC-7 SHALL BE ORIENTED IN DOWN DISCHARGE ORIENTATION.
4. RL/RS DOWN THRU ROOF AND ROUTED TO FC-7.



1 M212 MECHANICAL SECOND FLOOR PLAN
1/4" = 1'-0"

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PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL SECOND FLOOR PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

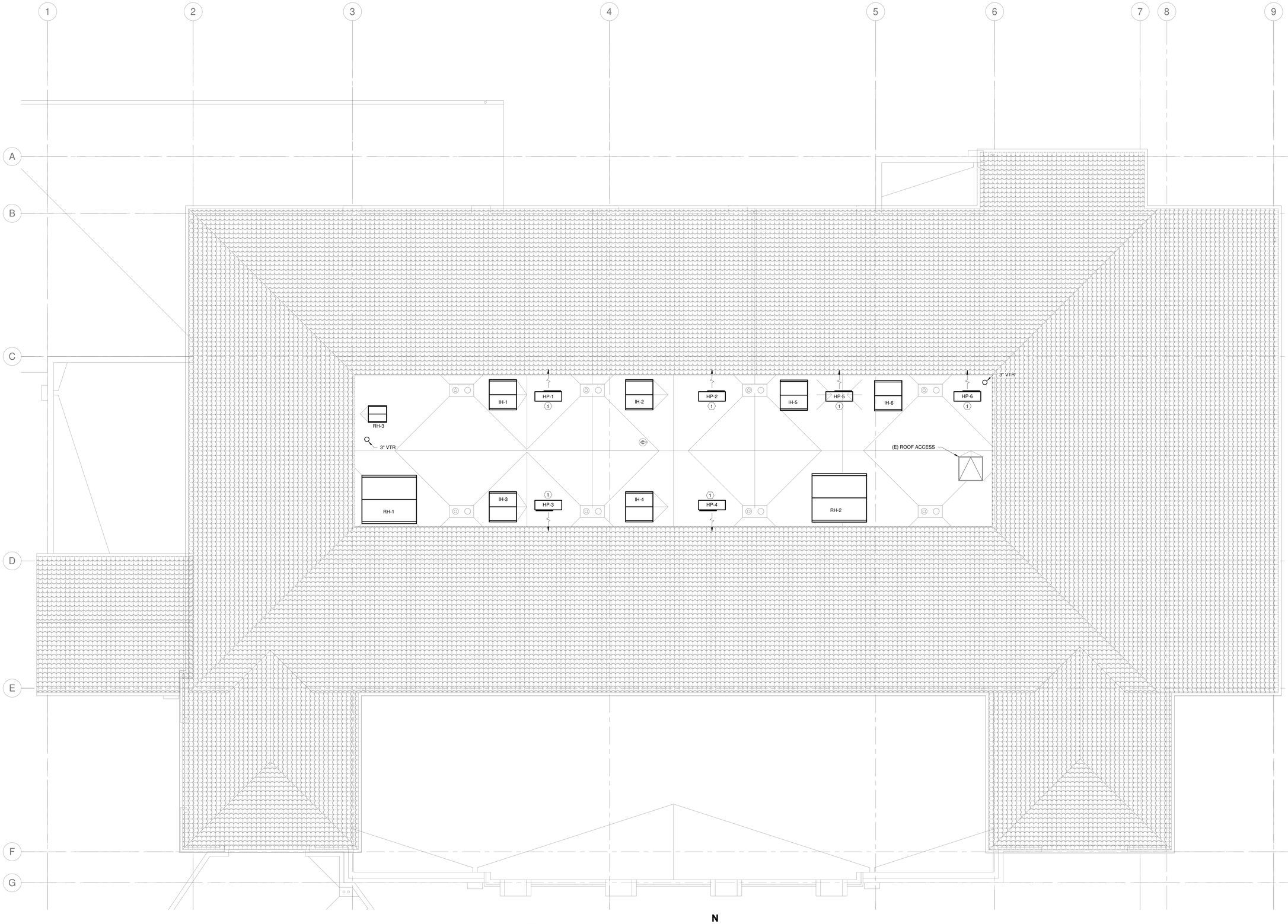
Drawn By	ML
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

M212

KEYED NOTES:

1 RL/RS DOWN THRU ROOF TO FAN COIL BELOW.



1 M240 MECHANICAL ROOF PLAN
1/4" = 1'-0"

N

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PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1628 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL ROOF PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

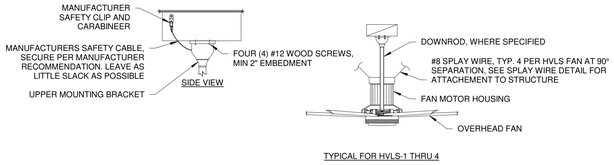
REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

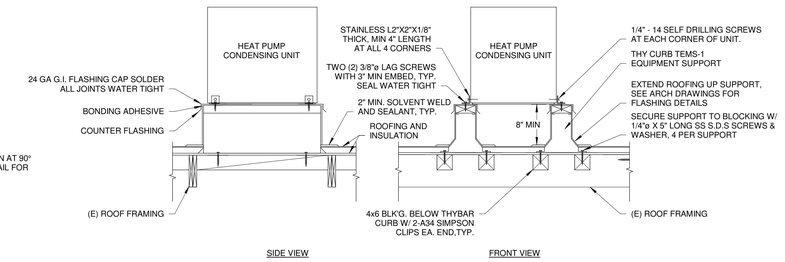
SHEET No.

M240



3 M300 OVERHEAD FAN DETAIL

NOT TO SCALE

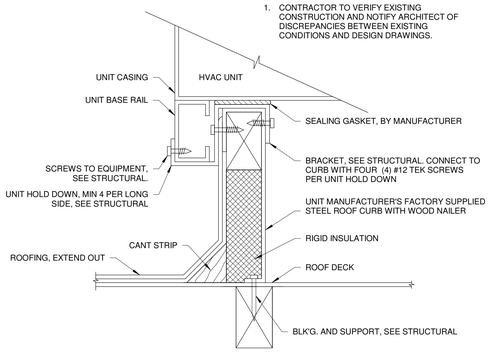


2 M300 CONDENSING UNIT MOUNTING DETAIL

NOT TO SCALE

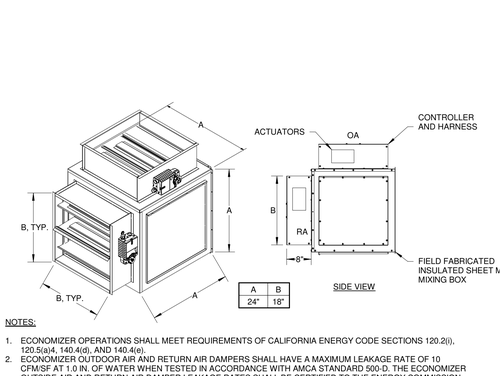
NOTE:

1. CONTRACTOR TO VERIFY EXISTING CONSTRUCTION AND NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DESIGN DRAWINGS.



1 M300 EQUIPMENT ROOF CURB DETAIL

NOT TO SCALE



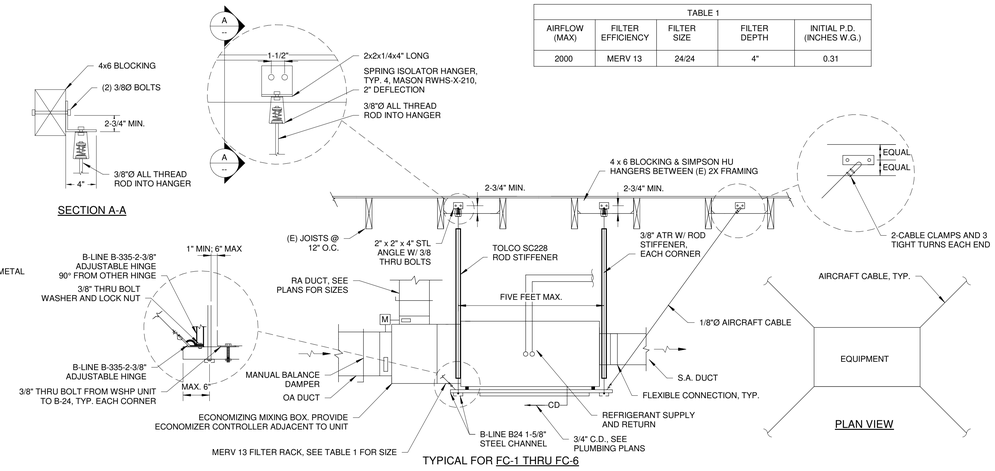
NOTES:

1. ECONOMIZER OPERATIONS SHALL MEET REQUIREMENTS OF CALIFORNIA ENERGY CODE SECTIONS 120.2(i), 120.5(a)4, 140.4(d), AND 140.4(e).
2. ECONOMIZER OUTDOOR AIR AND RETURN AIR DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 10 CFM/SF AT 1.0 IN. OF WATER WHEN TESTED IN ACCORDANCE WITH AMCA STANDARD 500-D. THE ECONOMIZER OUTSIDE AIR AND RETURN AIR DAMPER LEAKAGE RATES SHALL BE CERTIFIED TO THE ENERGY COMMISSION IN ACCORDANCE WITH SECTION 110.0.1. SPACE RELIEF PROVISIONS SHALL BE REQUIRED.
3. PROVIDE WITH ADJUSTABLE DRY BULB TEMPERATURE SENSORS, OUTSIDE AIR, MIXED AIR, RETURN AIR AND DISCHARGE AIR.
4. DAMPER AND ACTUATOR SHALL REMAIN ACCESSIBLE. OUTSIDE AIR AND RETURN OPENINGS SHALL BE LOCATED AS INDICATED ON PLANS.
5. PROVIDE WITH HONEYWELL JADE W7220 OR BELIMO ZIP ECONOMIZER CONTROL SYSTEM OR APPROVED EQUAL. LOCATE ECONOMIZER CONTROL BOX IN MEZZANINE.
6. ACTUATORS SHALL BE HONEYWELL, BELIMO OR APPROVED EQUAL.
7. 24 VAC POWER SHALL BE REQUIRED. COORDINATE WITH ELECTRICIAN.
8. TYPICAL FC-1 THRU FC-6.

6 M300 ECONOMIZER MIXING BOX DETAIL

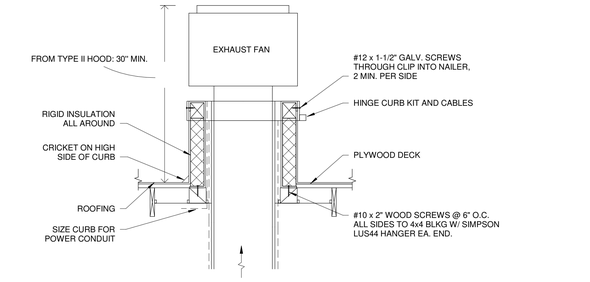
NOT TO SCALE

TABLE 1				
AIRFLOW (MAX)	FILTER EFFICIENCY	FILTER SIZE	FILTER DEPTH	INITIAL P.D. (INCHES W.G.)
2000	MERV 13	24/24	4"	0.31



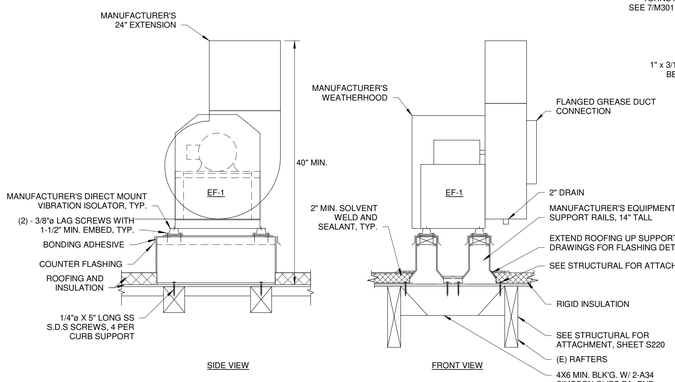
5 M300 FAN COIL UNIT HANGING DETAIL

NOT TO SCALE



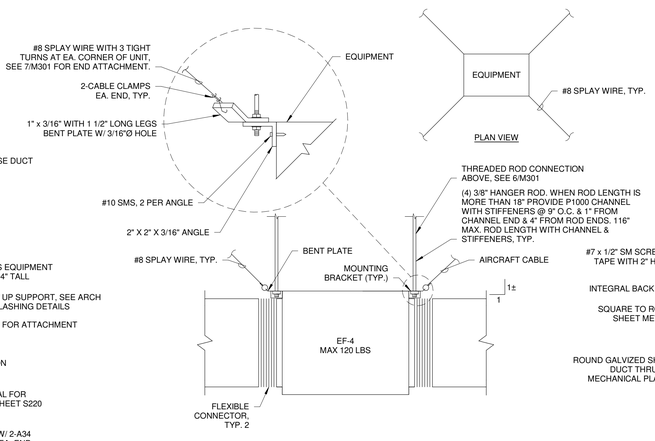
4 M300 EXHAUST FAN DETAIL

NOT TO SCALE



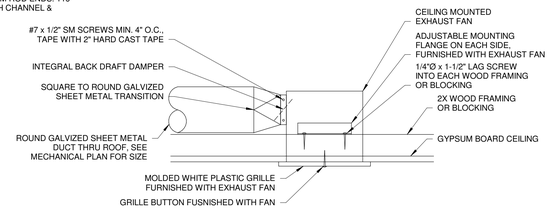
10 M300 UTILITY EXHAUST FAN DETAIL

NOT TO SCALE



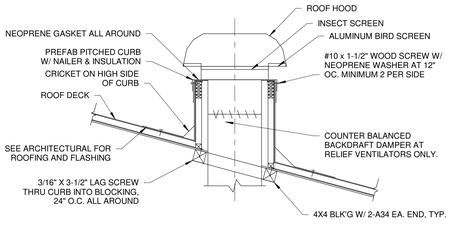
9 M300 INLINE EXHAUST FAN MOUNTING DETAIL

NOT TO SCALE



8 M300 CEILING EXHAUST FAN DETAIL

NOT TO SCALE



7 M300 INTAKE/RELIEF VENTILATOR DETAIL

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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

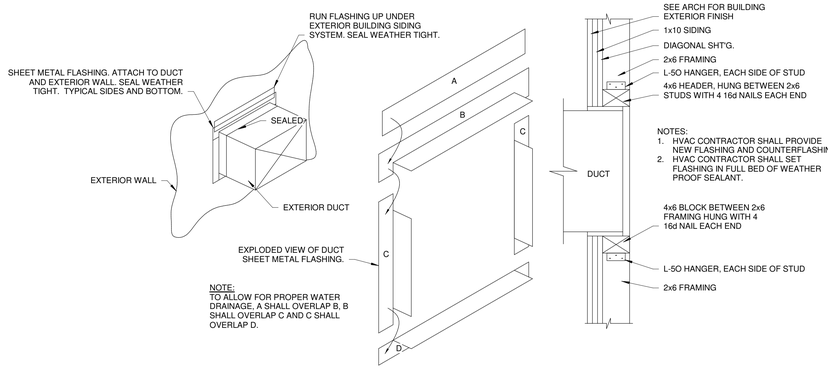
REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

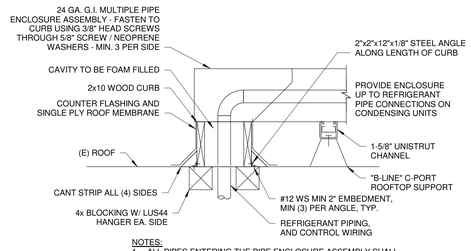
M300



NOTES:
1. HVAC CONTRACTOR SHALL PROVIDE NEW FLASHING AND COUNTERFLASHING
2. HVAC CONTRACTOR SHALL SET FLASHING IN FULL BED OF WEATHER PROOF SEALANT.

NOTE:
TO ALLOW FOR PROPER WATER DRAINAGE, A SHALL OVERLAP B, B SHALL OVERLAP C AND C SHALL OVERLAP D.

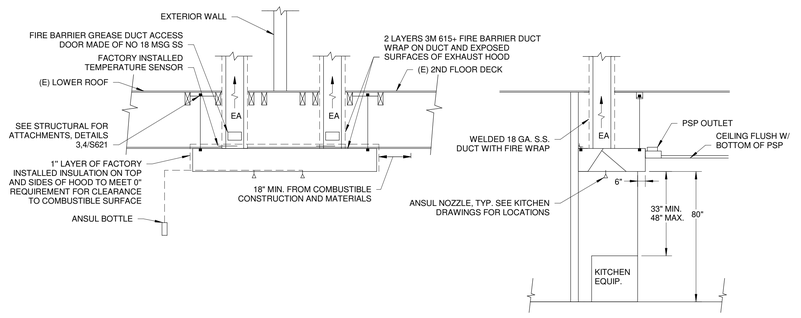
3 M301 EXTERIOR WALL DUCT PENETRATION DETAIL
NOT TO SCALE



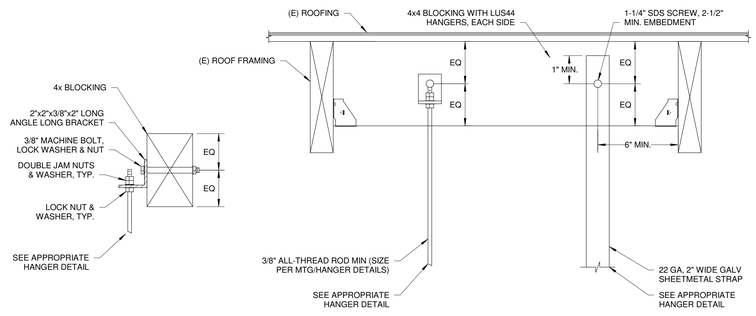
NOTES:
1. ALL PIPES ENTERING THE PIPE ENCLOSURE ASSEMBLY SHALL BE SLOPED UPWARD AS THEY ENTER THE FLASHING SO THAT WATER WILL NOT BE ABLE TO RUN INTO THE BUILDING.
2. CLEAN AND PRIME THE ENTIRE TIE-IN AREA.

2 M301 REFRIGERANT PIPING THRU ROOF DETAIL
NOT TO SCALE

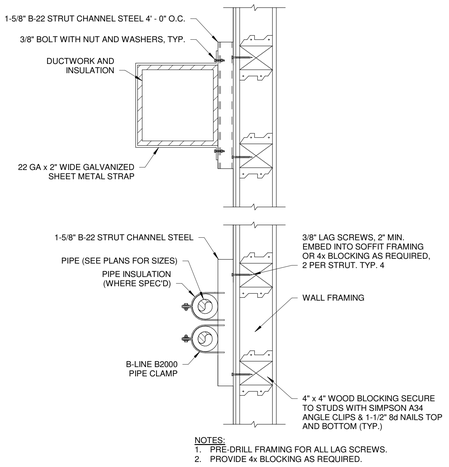
NOTE:
1. CONTRACTOR TO VERIFY EXISTING CONSTRUCTION AND NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DESIGN DRAWINGS.
2. CONTRACTOR SHALL INSTALL HOOD SUCH THAT THERE IS NO COMBUSTIBLE CONSTRUCTION AND MATERIALS WITHIN 18 INCHES OF ANY TYPE I EXHAUST HOOD.
3. EXHAUST FAN FOR HOOD SHALL BE ACTIVATED THROUGH INTERLOCK OF FACTORY INSTALLED TEMPERATURE SENSOR.
4. PROVIDE DUCT CLEANOUTS AT DUCT CHANGES OF DIRECTION WITH ACCESS PANEL. GREASE DUCT CLEANOUT OPENINGS SHALL BE LOCATED AT THE SIDES OR TOP OF THE DUCT, WHICHEVER IS MOST ACCESSIBLE. ACCESS PANELS FOR GREASE DUCT CLEANOUTS SHALL BE OF THE SAME MATERIAL AND THICKNESS AS DUCT, SHALL HAVE A GASKET OR SEALANT THAT IS RATED FOR 1500°F MIN. AND SHALL BE GREASE TIGHT. ACCESS PANELS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. TYPE I EXHAUST DUCTING SHALL BE SLOPED AT 1/4" PER LINEAR FOOT BACK TO HOOD.



1 M301 EXHAUST HOOD SECTION DETAIL
NOT TO SCALE

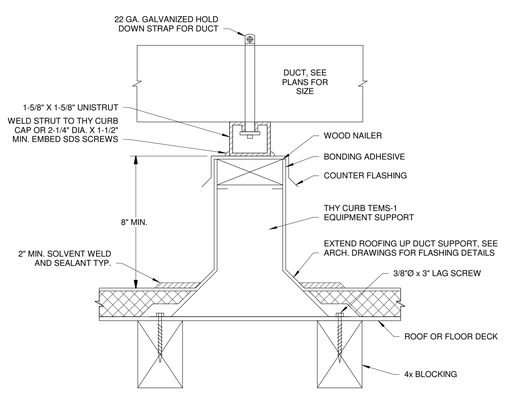


6 M301 TYPICAL DUCT HANGER CONNECTION DETAILS
NOT TO SCALE

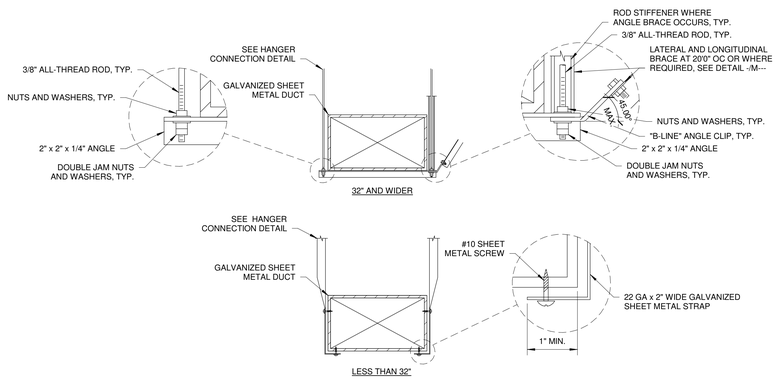


NOTES:
1. PRE-DRILL FRAMING FOR ALL LAG SCREWS.
2. PROVIDE 4x BLOCKING AS REQUIRED.

5 M301 WALL SUPPORT DETAIL
NOT TO SCALE

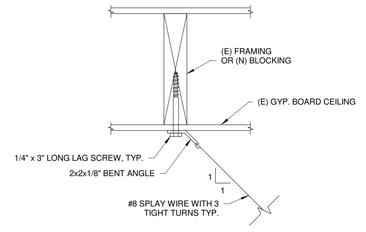


4 M301 DUCT SUPPORT DETAIL
NOT TO SCALE



DUCT SUPPORT NOTES:
1. ALL STRAPS, RODS, TRAPEZE ANGLES AND TRAPEZE CHANNELS SHALL BE SIZED IN ACCORDANCE WITH THE LATEST SMACNA REQUIREMENTS.
2. ALL BOLTS, NUTS, SCREWS AND OTHER FASTENING DEVICES SHALL BE LOAD-RATED AND SHALL MEET ALL CODE REQUIREMENTS AND APPLICABLE SAFETY FACTORS.
3. WIRE, USED IN PLACE OF STRAPS AND RODS, IS NOT ALLOWED.
4. WHERE APPLICABLE, INSTALL INSULATION AFTER INSTALLING DUCT HANGERS.
5. LATERAL BRACING REQUIRED ON 32" WIDE AND LARGER RECTANGULAR DUCTS AND ON 18" DIAMETER AND LARGER ROUND DUCTS.
6. SUPPORTS SHALL BE PLACED AT 8'-0" ON CENTER (MAX) AND AT ALL CHANGES IN DIRECTION.

8 M301 TYPICAL DUCT HANGER DETAILS
NOT TO SCALE



7 M301 SPLAY BRACING ATTACHMENT DETAIL
NOT TO SCALE

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REGISTERED PROFESSIONAL ENGINEER JASON J. ADKINS Cert. No. M38647 Exp. 9-30-2025 MECHANICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

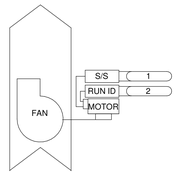
REVISIONS

Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

M301



TYPICAL EXHAUST FAN SEQUENCE OF OPERATIONS:

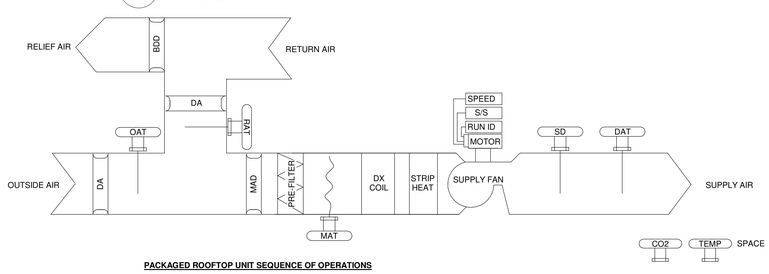
OCCUPIED / UNOCCUPIED MODE: OCCUPIED / UNOCCUPIED MODE SHALL BE SCHEDULED BY THE FMS SYSTEM. IN THE OCCUPIED MODE THE EXHAUST FAN SHALL RUN CONTINUOUSLY. THE EXHAUST FAN SHALL BE OFF DURING UNOCCUPIED TIMES.

INTERLOCKS: EF-1 SHALL INTERLOCK WITH CAPTIVEAIRE CONTROLS, MAU-1 AND FC-7. EF-2 SHALL INTERLOCK WITH FC-4. EF-3 AND EF-4 SHALL INTERLOCK WITH RTU-3.

SAFETIES / ALARMS: WHEN ANY SENSED OUTPUT DIFFERS FROM ITS COMMANDED STATE, AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM.

2 M400 EXHAUST FAN CONTROL SCHEMATIC

NOT TO SCALE



PACKAGED ROOFTOP UNIT SEQUENCE OF OPERATIONS

NOTE: UNITS ARE SPECIFIED WITH FACTORY TYPICAL FOR RTU-1 THRU RTU-3 TERFACE CARDS. BAS SHALL ENABLE / DISABLE UNITS ACCORDING TO OCCUPANCY SCHEDULE, MONITOR OPERATION, GENERATE ALARMS, AND WRITE SPACE TEMPERATURE SETPOINTS. BAS SHALL ALSO OPERATE ECONOMIZER COOLING AS THE FIRST STAGE OF COOLING. OTHER CONTROL FEATURES SHALL BE PERFORMED BY FACTORY CONTROLLER.

OCCUPIED / UNOCCUPIED MODE: OCCUPIED / UNOCCUPIED MODE SHALL BE SCHEDULED BY THE BAS SYSTEM. IN THE OCCUPIED MODE, THE UNIT SHALL BE ENABLED AND SHALL RUN CONTINUOUSLY TO MAINTAIN THE SPACE HEATING SETPOINT OF 70°F(ADJ.) AND THE SPACE COOLING SETPOINT OF 75°F (ADJ.).

FAN CONTROL: THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING THE OCCUPIED MODE. THE SUPPLY FAN SHALL CYCLE ON AND OFF AS REQUIRED DURING THE UNOCCUPIED MODE TO MAINTAIN THE UNOCCUPIED HEATING SPACE SETPOINT.

ECONOMIZER COOLING: WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER SETPOINT OF 60°F (ADJ.) AND THERE IS A CALL FOR COOLING IN THE SPACE, THE OUTSIDE AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN SPACE COOLING SETPOINT. WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN DAMPER SHALL BE FULLY OPEN. DURING OCCUPIED MODE, WHEN THE SUPPLY FAN IS ON, THE OUTSIDE AND RETURN DAMPERS SHALL INITIALLY BE POSITIONED AT THE MINIMUM SETTING REQUIRED FOR VENTILATION.

MIXED AIR DAMPER CONTROL: WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN DAMPER SHALL BE FULLY OPEN. DURING OCCUPIED MODE, WHEN THE SUPPLY FAN IS ON, THE OUTSIDE AND RETURN DAMPERS SHALL INITIALLY BE POSITIONED AT THE MINIMUM SETTING REQUIRED FOR VENTILATION. THE CONTROLLER SHALL START TO MODULATE THE DAMPERS OPEN BEYOND THE MINIMUM VENTILATION SETTING WHEN THE SPACE CO2 CONCENTRATION IS 100 PPM GREATER THAN THE OUTSIDE AIR CO2 CONCENTRATION UPPER LIMIT OF 500 PPM ABOVE THE OA CO2 CONCENTRATION IS REACHED, THE OUTSIDE AIR DAMPER SHALL BE IN THE SETTING REQUIRED FOR FULL OCCUPANCY VENTILATION RATE

HEAT PUMP HEATING AND COOLING CONTROL: HEATING AND COOLING SHALL OPERATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

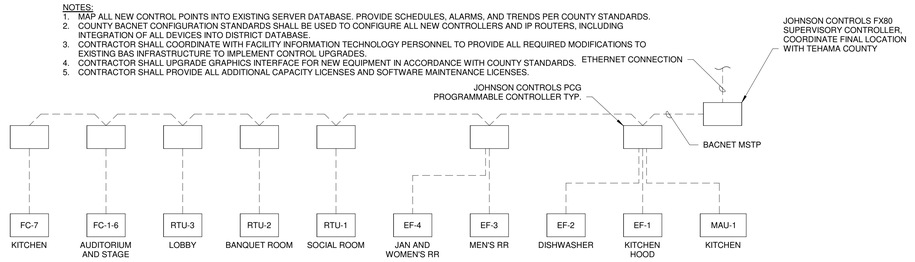
STRIP HEAT CONTROL: STRIP HEAT SHALL ACTIVATE WHEN SYSTEM ACTIVATES DEFROST MODE OR A SECOND STAGE OF HEATING IS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

SAFETIES / ALARMS: IF THE DISCHARGE AIR TEMPERATURE FALLS BELOW 40°F (ADJ.), OR THE FREEZE STAT ACTIVATES, THE UNIT SHALL BE COMMANDED INTO THE UNOCCUPIED MODE AND AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM. WHEN ANY CONTROL POINT DEVIATES FROM SET-POINT BY MORE THAN 5°F (ADJ.), AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM. WHEN ANY SENSED OUTPUT DIFFERS FROM ITS COMMANDED STATE, AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM.

4 M400 ROOFTOP UNIT CONTROL SCHEMATIC

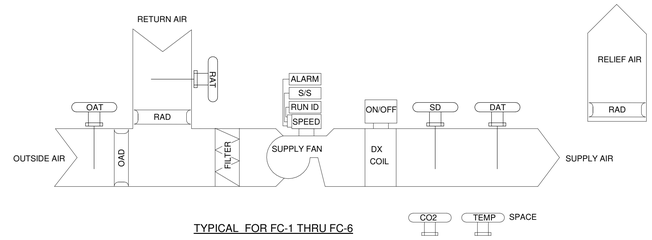
NOT TO SCALE

NOTES:
1. MAP ALL NEW CONTROL POINTS INTO EXISTING SERVER DATABASE. PROVIDE SCHEDULES, ALARMS, AND TRENDS PER COUNTY STANDARDS.
2. COUNTY BACNET CONFIGURATION STANDARDS SHALL BE USED TO CONFIGURE ALL NEW CONTROLLERS AND IP ROUTERS, INCLUDING INTEGRATION OF ALL DEVICES INTO DISTRICT DATABASE.
3. CONTRACTOR SHALL COORDINATE WITH FACILITY INFORMATION TECHNOLOGY PERSONNEL TO PROVIDE ALL REQUIRED MODIFICATIONS TO EXISTING BAS INFRASTRUCTURE TO IMPLEMENT CONTROL UPGRADES.
4. CONTRACTOR SHALL UPGRADE GRAPHICS INTERFACE FOR NEW EQUIPMENT IN ACCORDANCE WITH COUNTY STANDARDS.
5. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL CAPACITY LICENSES AND SOFTWARE MAINTENANCE LICENSES.



1 M400 CONTROL SYSTEM ARCHITECTURE

NOT TO SCALE



TYPICAL FOR FC-1 THRU FC-6

FAN COIL UNIT SEQUENCE OF OPERATIONS

NOTE: UNITS ARE SPECIFIED WITH FACTORY CONTROLLERS AND BACNET INTERFACE CARDS. BAS SHALL ENABLE / DISABLE UNITS ACCORDING TO OCCUPANCY SCHEDULE, MONITOR OPERATION, GENERATE ALARMS, AND WRITE SPACE TEMPERATURE SETPOINTS. BAS SHALL ALSO OPERATE ECONOMIZER COOLING AS THE FIRST STAGE OF COOLING. OTHER CONTROL FEATURES SHALL BE PERFORMED BY FACTORY CONTROLLER.

OCCUPIED / UNOCCUPIED MODE: OCCUPIED / UNOCCUPIED MODE SHALL BE SCHEDULED BY THE BAS SYSTEM. IN THE OCCUPIED MODE, THE UNIT SHALL BE ENABLED AND SHALL RUN CONTINUOUSLY TO MAINTAIN THE SPACE HEATING SETPOINT OF 70°F(ADJ.) AND THE SPACE COOLING SETPOINT OF 75°F (ADJ.). IN UNOCCUPIED MODE, THE UNIT SHALL RUN AS REQUIRED TO MAINTAIN THE SPACE HEATING SETPOINT OF 65°F (ADJ.) AND THE SPACE COOLING SETPOINT OF 80°F (ADJ.)

FAN CONTROL: THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING THE OCCUPIED MODE. THE SUPPLY FAN SHALL CYCLE ON AND OFF AS REQUIRED DURING THE UNOCCUPIED MODE TO MAINTAIN THE UNOCCUPIED HEATING SPACE SETPOINT.

ECONOMIZER MODE: WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER SETPOINT OF 60°F (ADJ.) AND THERE IS A CALL FOR COOLING IN THE SPACE, THE OUTSIDE AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN SPACE COOLING SETPOINT. WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN DAMPER SHALL BE FULLY OPEN. DURING OCCUPIED MODE, WHEN THE SUPPLY FAN IS ON, THE OUTSIDE AND RETURN DAMPERS SHALL INITIALLY BE POSITIONED AT THE MINIMUM SETTING REQUIRED FOR VENTILATION.

MIXED AIR DAMPER CONTROL: WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN DAMPER SHALL BE FULLY OPEN. DURING OCCUPIED MODE, WHEN THE SUPPLY FAN IS ON, THE OUTSIDE AND RETURN DAMPERS SHALL INITIALLY BE POSITIONED AT THE MINIMUM SETTING REQUIRED FOR VENTILATION. THE CONTROLLER SHALL START TO MODULATE THE DAMPERS OPEN BEYOND THE MINIMUM VENTILATION SETTING WHEN THE SPACE CO2 CONCENTRATION IS 100 PPM GREATER THAN THE OUTSIDE AIR CO2 CONCENTRATION. WHEN THE OUTSIDE AIR CO2 CONCENTRATION UPPER LIMIT OF 500 PPM ABOVE THE OA CO2 CONCENTRATION IS REACHED, THE OUTSIDE AIR DAMPER SHALL BE IN THE SETTING REQUIRED FOR FULL OCCUPANCY VENTILATION RATE.

DX COOLING CONTROL: WHEN IN THE OCCUPIED MODE, THE DX COOLING SHALL OPERATE AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

HEAT PUMP HEATING CONTROL: WHEN IN THE OCCUPIED MODE, THE HEAT PUMP HEATING COIL SHALL OPERATE AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

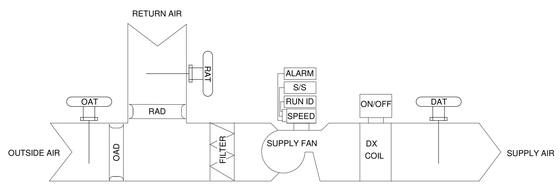
STRIP HEAT CONTROL: STRIP HEAT SHALL ACTIVATE WHEN SYSTEM ACTIVATES DEFROST MODE OR A SECOND STAGE OF HEATING IS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

INTERLOCKS: FC-4 SHALL INTERLOCK WITH EF-2. FC-4 OA DAMPER SHALL ADJUST TO STANDARD OUTSIDE AIR POSITION (NOT DCV POSITION).

SAFETIES / ALARMS: IF THE DISCHARGE AIR TEMPERATURE FALLS BELOW 40°F (ADJ.), OR THE FREEZE STAT ACTIVATES, THE UNIT SHALL BE COMMANDED INTO THE UNOCCUPIED MODE AND AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM. WHEN ANY CONTROL POINT DEVIATES FROM SET-POINT BY MORE THAN 5°F (ADJ.), AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM. WHEN ANY SENSED OUTPUT DIFFERS FROM ITS COMMANDED STATE, AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM.

3 M400 DUCTED FAN COIL CONTROL SCHEMATIC

NOT TO SCALE



TYPICAL FOR FC-7

FAN COIL UNIT SEQUENCE OF OPERATIONS

NOTE: UNITS ARE SPECIFIED WITH FACTORY CONTROLLERS AND BACNET INTERFACE CARDS. BAS SHALL ENABLE / DISABLE UNITS ACCORDING TO OCCUPANCY SCHEDULE, MONITOR OPERATION, GENERATE ALARMS, AND WRITE SPACE TEMPERATURE SETPOINTS. BAS SHALL ALSO OPERATE ECONOMIZER COOLING AS THE FIRST STAGE OF COOLING. OTHER CONTROL FEATURES SHALL BE PERFORMED BY FACTORY CONTROLLER.

OCCUPIED / UNOCCUPIED MODE: OCCUPIED / UNOCCUPIED MODE SHALL BE SCHEDULED BY THE BAS SYSTEM. IN THE OCCUPIED MODE, THE UNIT SHALL BE ENABLED AND SHALL RUN CONTINUOUSLY TO MAINTAIN THE SPACE HEATING SETPOINT OF 70°F(ADJ.) AND THE SPACE COOLING SETPOINT OF 75°F (ADJ.). IN UNOCCUPIED MODE, THE UNIT SHALL RUN AS REQUIRED TO MAINTAIN THE SPACE HEATING SETPOINT OF 65°F (ADJ.) AND THE SPACE COOLING SETPOINT OF 80°F (ADJ.)

FAN CONTROL: THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING THE OCCUPIED MODE. THE SUPPLY FAN SHALL CYCLE ON AND OFF AS REQUIRED DURING THE UNOCCUPIED MODE TO MAINTAIN THE UNOCCUPIED HEATING SPACE SETPOINT.

ECONOMIZER MODE: WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER SETPOINT OF 60°F (ADJ.) AND THERE IS A CALL FOR COOLING IN THE SPACE, THE OUTSIDE AND RETURN AIR DAMPERS SHALL MODULATE TO MAINTAIN SPACE COOLING SETPOINT. WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN DAMPER SHALL BE FULLY OPEN. DURING OCCUPIED MODE, WHEN THE SUPPLY FAN IS ON, THE OUTSIDE AND RETURN DAMPERS SHALL INITIALLY BE POSITIONED AT THE MINIMUM SETTING REQUIRED FOR VENTILATION.

MIXED AIR DAMPER CONTROL: WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN DAMPER SHALL BE FULLY OPEN. DURING OCCUPIED MODE, WHEN THE SUPPLY FAN IS ON, THE OUTSIDE AND RETURN DAMPERS SHALL INITIALLY BE POSITIONED AT THE MINIMUM SETTING REQUIRED FOR VENTILATION. THE CONTROLLER SHALL START TO MODULATE THE DAMPERS OPEN BEYOND THE MINIMUM VENTILATION SETTING WHEN THE SPACE CO2 CONCENTRATION IS 100 PPM GREATER THAN THE OUTSIDE AIR CO2 CONCENTRATION. WHEN THE OUTSIDE AIR CO2 CONCENTRATION UPPER LIMIT OF 500 PPM ABOVE THE OA CO2 CONCENTRATION IS REACHED, THE OUTSIDE AIR DAMPER SHALL BE IN THE SETTING REQUIRED FOR FULL OCCUPANCY VENTILATION RATE.

DX COOLING CONTROL: WHEN IN THE OCCUPIED MODE, THE DX COOLING SHALL OPERATE AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

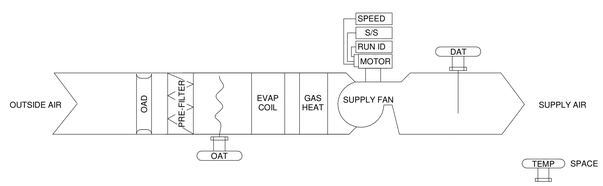
HEAT PUMP HEATING CONTROL: WHEN IN THE OCCUPIED MODE, THE HEAT PUMP HEATING COIL SHALL OPERATE AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

INTERLOCKS: FC-7 SHALL INTERLOCK WITH EF-1. FC-7 OA DAMPER SHALL ADJUST TO STANDARD OUTSIDE AIR POSITION.

SAFETIES / ALARMS: IF THE DISCHARGE AIR TEMPERATURE FALLS BELOW 40°F (ADJ.), OR THE FREEZE STAT ACTIVATES, THE UNIT SHALL BE COMMANDED INTO THE UNOCCUPIED MODE AND AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM. WHEN ANY CONTROL POINT DEVIATES FROM SET-POINT BY MORE THAN 5°F (ADJ.), AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM. WHEN ANY SENSED OUTPUT DIFFERS FROM ITS COMMANDED STATE, AN ALARM SHALL BE GENERATED BY THE FMS SYSTEM.

5 M400 DUCTED FAN COIL CONTROL SCHEMATIC

NOT TO SCALE



TYPICAL FOR MAU-1

MAKEUP AIR UNIT SEQUENCE OF OPERATIONS:

FAN CONTROL: THE MOTORIZED DAMPER SHALL OPEN/CLOSE AND SUPPLY FAN SHALL RUN BASED ON CAPTIVEAIR CONTROLS. SUPPLY FAN SHALL INTERLOCK WITH EF-1.

TEMPERATURE CONTROL: HEATING AND COOLING SHALL OPERATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT DICTATED BY CAPTIVE AIRE CONTROLS.

6 M400 MAKEUP AIR UNIT CONTROL SCHEMATICMATIC

NOT TO SCALE

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PROJECT NAME

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1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL CONTROLS

DRAWING STATUS

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Sym.	Description	Date

Drawn By	ML
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

M400

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 5 of 16)

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	125.38	125.38	---
Process	17.1	17.1	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**723.7**	**624.39**	**99.31 (13.7%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 6 of 16)

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh/y)	Proposed Design Site (kWh/y)	Margin (kWh/y)	Standard Design Site (kBtu/y)	Proposed Design Site (kBtu/y)	Margin (kBtu/y)
Space Heating	---	8.2	---	276.4	---	---
Space Cooling	53.5	47.6	5.9	---	---	---
Indoor Fans	65.7	62.9	2.8	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	9.8	9.8	0	---	---	---
Indoor Lighting	24.7	24.7	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**153.7**	**153.2**	**0.5**	**276.4**	**0**	**276.4**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**153.7**	**153.2**	**0.5**	**276.4**	**0**	**276.4**
Receptacle	35.2	35.2	0	106.6	106.6	0
Process	6.1	6.1	0	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**195**	**194.5**	**0.5**	**383**	**106.6**	**276.4**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 7 of 16)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	104.16	76.53	27.63	26.53
NET EUI[1]	104.16	76.53	27.63	26.53

[1] Notes: Gross EUI is Energy Use Total (not including PV/Q/Total Building Area. Net EUI is Energy Use Total (including PV/Q/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

- The 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.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	2878	463	16.09
East-Facing[2]	1799	54	3
South-Facing[3]	2959	231	7.81
West-Facing[4]	2137	64	2.99
Total	**9773**	**812**	**8.31**

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 west (NW), but excluding 45 00'00" south of west (SW).

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 8 of 16)

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
Roof	9721	0	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 west (NW), but excluding 45 00'00" south of west (SW).

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 9 of 16)

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
Altered R-19 Wood Roof Rafters	Roof	1,911	Wood	19	N/A	N/A	U-factor	0.05	Single Ply Roofing - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Ceiling - 3/4 in. Composite-1 Gypsum Board - 1/2 in.	A
Altered R-19 Wall10	Exterior Wall	9,773	Wood	13	N/A	N/A	U-factor	0.0852	Brick - fired clay - 140 lb/ft3 - 3 5/8 in. Vapor permeable felt - 1/8 in. Composite-2 Gypsum Board - 1/2 in.	A
Altered R-19 Floor Crawls14	Exterior Floor	10,444	Wood	19	N/A	N/A	U-factor	0.0537	Air - Floor - 3 1/2 in. Composite-3 Plywood - 1/2 in.	A
Altered R-30 Wood Roof Ra23	Roof	7,810	Wood	30	N/A	N/A	U-factor	0.0344	Single Ply Roofing - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Ceiling - 3/4 in. Composite-4 Gypsum Board - 1/2 in.	A
R-0 Floor Crawlspace65	Exterior Floor	1,167	N/A	0	N/A	N/A	U-factor	0.2747	Air - Floor - 3 1/2 in. Air Gap - Wall Roof Ceiling - 4 in. or less Plywood - 1/2 in.	E
R-19 Floor No Crawlspace87	Exterior Floor	36	Wood	19	N/A	N/A	U-factor	0.0496	Composite-5 Plywood - 1/2 in. Carpet - 3/4 in.	A

[1] Status: N - New, A - Altered, E - Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 10 of 16)

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01	02	03	04
Assembly Name	Area (ft²)	Overall U-factor	Status[1]
Insulated Door24	210	0.2	A

[1] Status: N - New, A - Altered, E - Existing

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02		03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type		Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Corning Vets Window	Vertical fenestration Fixed window		NFRC	Manufactured	812	0.3	0.3	0.5	N
	N/A								

[1] Notes: 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

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
RTU_1_Social Room	Single Zone Heat Pump (SZHP) Air System	1	27.6	22.18	COP HSPF2	3.4 7.3	33.6	EER2 SEER2	11.7 16	Fixed DB	N

[1] Status: N - New, A - Altered, E - Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 11 of 16)

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
RTU_2_Banquet Room	Single Zone Heat Pump (SZHP) Air System	1	53.12	26.95	COP HSPF2	3.45 7.5	57.13	EER2 SEER2	12 16	Fixed DB	N
FC_1_4_Auditorium/Stage A	Single Zone Heat Pump (SZHP) Air System	4	58.85	34.12	COP HSPF	3.9 10.5	55.21	EER SEER	9.2 15.5	Fixed DB	N
FC_5_6_Stage	Single Zone Heat Pump (SZHP) Air System	2	58.85	34.12	COP HSPF	3.9 10.5	55.21	EER SEER	9.2 15.5	Fixed DB	N
RTU_3_Lobby Areas	Single Zone Heat Pump (SZHP) Air System	1	53.12	26.95	COP HSPF2	3.45 7.5	57.13	EER2 SEER2	12 16	Fixed DB	N
FC_7_Kitchen	Single Zone Heat Pump (SZHP) Air System	1	58.85	0	COP HSPF	3.9 10.5	55.21	EER SEER	9.2 15.5	No Economizer	N

[1] Status: N - New, A - Altered, E - Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 12 of 16)

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan					Return / Relief Fan				
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
RTU_1_Social Room	1	95.7	1,200	0.66	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
RTU_2_Banquet Room	1	146.7	1,900	1.24	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC_1_4_Auditorium/Stage A	4	1231.04	1,800	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC_5_6_Stage	2	340.25	1,800	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
RTU_3_Lobby Areas	1	896	1,900	1.24	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
FC_7_Kitchen	1	104.1	1,800	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation[1]	Status[2]
RTU-396		1	545	0.3	BHP	No	E
FC-7124		1	3568	1.03	BHP	No	E

[1] Notes: N - New, A - Altered, E - Existing

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 13 of 16)

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(k)[1]	Other Special Features and Controls
RTU_1_Social Room	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
RTU_2_Banquet Room	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
FC_1_4_Auditorium/Stage A	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
FC_5_6_Stage	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
RTU_3_Lobby Areas	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
Corning Veterans Hall1 - SHW	Service Hot Water	N/A	Fixed Temperature Control
Kitchen HW122 - SHW	Service Hot Water	N/A	Fixed Temperature Control

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.
[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
		Mechanical Ventilation				
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-RTU-1	Misc - All others	21.27	95.7	0	638	OCV
2-RTU-2	Misc - All others	32.6	146.7	0	978	OCV
3-FC-1 - FC-4	Assembly - Auditorium seating area NA	328.72	4924.14	0	4602	OCV
4-FC-5 - 6	Sports/Entertainment - Stages, studios	97.22	680.5	0	1361	OCV
5-RTU-3	Assembly - Lobbies	10.74	896	545	1792	OCV

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 14 of 16)

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
		Mechanical Ventilation				
Zone Name	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
6-FC-7	Food Service - Kitchen (cooking)	1.74	104.1	3568	694	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			VSD
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
1-RTU-1-Trm	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐
2-RTU-2-Trm	Uncontrolled	1	N/A	N/A	1,900	N/A	0	N/A	N/A	N/A	☐
3-FC-1 - FC-4-Trm	Uncontrolled	4	N/A	N/A	7,200	N/A	0	N/A	N/A	N/A	☐
4-FC-5 - 6-Trm	Uncontrolled	2	N/A	N/A	3,600	N/A	0	N/A	N/A	N/A	☐
5-RTU-3-Trm	Uncontrolled	1	N/A	N/A	1,900	N/A	0	N/A	N/A	N/A	☐
6-FC-7-Trm	Uncontrolled	1	N/A	N/A	1,800	N/A	0	N/A	N/A	N/A	☐
PropNoClg NonResZnSys	Single Zone Air Conditioner	4	0	68.66	2,064.19	N/A	N/A	0	W/cfm	Cycling	☐
PropNoClg NonResZnSys-2	Single Zone Air Conditioner	1	0	61.18	1,810.28	N/A	N/A	0	W/cfm	Cycling	☐

J2. COMMERCIAL KITCHENS

01	02	03	04	05
Space Name	Exhaust Hood Style	Exhaust Hood Duty	Exhaust Length	Exhaust Flow Rate (cfm)
5-7-FC-7	Wall-mounted Canopy	Heavy Duty	14	3,568

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRCC-PRF-E

Nonresidential Performance Compliance Method — (Page 15 of 16)

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author 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

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems
Covered Process	NRCI-PRC-01-E - Must be submitted for all Covered Processes

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author 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).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NFRC label verification for fenestration
Covered Process	NRCA-PRC-02-F Kitchen Exhaust
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly-installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author 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

There are no Certificates of Verification applicable to this project

STATE OF CALIFORNIA
Process Systems — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-PRF-E

Project Name: Tehama County Corning Veteran's Hall — **Report Page:** (Page 4 of 6)

Project Address: 1520 Solano St — **Date Prepared:** 10/8/2024

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION

05	The kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B:
	NA. Not a kitchen/ dining facility having a total Type I and Type II kitchen hood exhaust airflow rate < 5,000 cfm

Kitchen Exhaust: Airflow Rate 140.9(b)1B

01	Kitchen Name or Item Tag	Kitchen	Compliance Method per 140.9(b)1B		NA: Kitchen/ dining facility has a total Type I and Type II kitchen hood exhaust airflow rate <= 5,000 cfm	
02	03	04	05	06	07	08
Name or Item Tag	Hood Type[1]	Hood Style	Hood Length (ft)	Equipment Duty	Design Hood Exhaust Rate CFM	Max Hood Exhaust Rate Allowed CFM
EH-1	Type I	Wall-mounted Canopy	14	Heavy Duty	3023	3920
EH-2	Type II	Wall-mounted Canopy	3.5	Light Duty	525	490

[1]FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per 140.9(b)1B

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS

This section does not apply to this project.

P. CONTROLLED ENVIRONMENT HORTICULTURE

This section does not apply to this project.

Q. STEAM TRAPS IN INDUSTRIAL FACILITIES

This section does not apply to this project.

R. Pool & SPAs

This section does not apply to this project.

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STATE OF CALIFORNIA
Process Systems — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-PRF-E

Project Name: Tehama County Corning Veteran's Hall — **Report Page:** (Page 3 of 6)

Project Address: 1520 Solano St — **Date Prepared:** 10/8/2024

I. PROCESS BOILER

This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS

This section does not apply to this project.

K. ELEVATOR LIGHTING AND VENTILATION

This section does not apply to this project.

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS

This section does not apply to this project.

M. COMPUTER ROOM SYSTEM SUMMARY

This section does not apply to this project.

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION

This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements found in 140.9(b)

Kitchen Ventilation 140.9(b)2

01	☐	Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements)
	Requirements	
02	Replacement Air to Hood Compliance Method 140.9(b)1A	
	Providing replacement air directly to the hood(s) that does not exceed 10% of the hood(s) exhaust rate	
03	Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of:	
	The hood exhaust flow minus the available transfer air from adjacent spaces	
04	Location that is supplying transfer air:	

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STATE OF CALIFORNIA
Process Systems — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-PRF-E

Project Name: Tehama County Corning Veteran's Hall — **Report Page:** (Page 2 of 6)

Project Address: 1520 Solano St — **Date Prepared:** 10/8/2024

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through R. Note: if any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Refrigerated Warehouse / Space 120.6(a) (See Table F)	Commercial Refrigeration (+ 120.6(b) (See Table G)	Parking Garage Exhaust 120.6(c) (See Table H)	Process Boilers 120.6(d) (See Table I)	Compressed Air Systems 120.6(e) (See Table J)	Elevators 120.6(f) / 160.7 (See Table K)	Escalators & Moving Walkways 120.6(g) (See Table L)	Computer Rooms 140.9(See Table M)	Commercial Kitchens 140.9(b) (See Table N)	Laboratory/ Factory Exhaust 140.9(c) (See Table O)	Controlled Environment Horticulture 120.6(h) (See Table P)	Steam Traps 120.6(i) (See Table Q)	Multifamily Pool/Spa 160.7 (See Table R)	**Compliance Results**
								Yes					COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. REFRIGERATED WAREHOUSES/SPACES

This section does not apply to this project.

G. COMMERCIAL REFRIGERATION

This section does not apply to this project.

H. ENCLOSED PARKING GARAGE EXHAUST

This section does not apply to this project.

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Process Systems — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-PRF-E

This form is used to document any process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6 / 160.7 or prescriptive requirements in 140.9. This compliance document is used for newly constructed, addition and alteration projects.

Project Name: Tehama County Corning Veteran's Hall — **Report Page:** (Page 1 of 6)

Project Address: 1520 Solano St — **Date Prepared:** 10/8/2024

A. GENERAL INFORMATION

01	Project Location (city)	Corning	04	Total Conditioned Floor Area	11647
02	Climate Zone	11	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Auditorium ★ All Other Occupancies

B. PROJECT SCOPE

This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6 / 160.7 or prescriptive requirements in 140.9.

My project consists of: (check all that apply):

	02
☐	Refrigerated Spaces <3,000 ft² Total (no Title 24, PI6 requirements)
☐	Refrigerated Spaces >=3,000 ft² Total (mandatory 120.6(a))
☐	Food /Beverage Stores >8,000 ft² cfa (mandatory 120.6(b))
☐	Enclosed Parking Garage Exhaust >=10,000 cfm (mandatory 120.6(c))
☐	Newly Installed Process Boilers (mandatory 120.6(d))
☐	Compressed Air Systems Combined HP >= 25 (mandatory 120.6(e))
☐	Elevator Lighting & Ventilation Controls (mandatory 120.6(f) / 160.7)
☐	Escalator & Moving Walkway Speed Controls (mandatory 120.6(g))
☐	Computer Rooms (mandatory 120.6(j) and prescriptive 140.9(c))[1]
☒	Commercial Kitchen Ventilation/Exhaust (prescriptive 140.9(b))[1]
☐	Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive 140.9(c))[1]
☐	Pool/Spa (mandatory 110.4 / 160.7)
☐	Controlled Environment Horticulture (mandatory 120.6(h))
☐	New Steam Traps (mandatory 120.6(i))

FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRF-E.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version:

PLUMBING LEGEND

SYMBOLS	ABBREVIATIONS	
	ABC	ABOVE CEILING
	BFP	BACKFLOW PREVENTER
		BALL VALVE
	BG	BELOW GRADE
	BS	BELOW SLAB
		CHECK VALVE
	CW	COLD WATER SUPPLY
	CD	CONDENSATE DRAIN
	CDO	CONDENSATE DRAIN OVERFLOW
		CONNECTION TO BOTTOM OF PIPE
		CONNECTION TO TOP OF PIPE
	D	DEMO
		DOMESTIC COLD WATER
		DOMESTIC HOT WATER
	DN	DOWN
	DIW	DOWN IN WALL
	E, EX	EXISTING
		FLANGE
	FCO	FLOOR CLEAN OUT
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	GSM	GALVANIZED SHEET METAL
	GCO	GRADE CLEAN OUT
	GW	GREASE WASTE
	HB	HOSE BIB
	HW	HOT WATER SUPPLY
	HWR	HOT WATER RECIRC
	N	NEW
		NEW CONNECTION TO EXISTING
	OH	OVERHEAD
	PD	PRIMARY STORM DRAIN
		PIPE CAP
		PIPE TURNED DOWN
		PIPE TURNED UP
		PRESSURE GAUGE
		PRESSURE REGULATOR
		P-TRAP
		RELIEF VALVE
		REMOVE TO THIS POINT
	SS	SANITARY SEWAGE (BELOW GRADE)
	SD	SECONDARY STORM DRAIN
	SOV	SHUT-OFF VALVE
	SK	SINK
		STRAINER
		THERMOMETER
	TMV	THERMOSTATIC VALVE
	TP	TRAP PRIMER
		TRIPLE DUTY VALVE
	UG	UNDERGROUND
		UNION
	UIW	UP IN WALL
	UR	URINAL
	V	VENT
	VTR	VENT TO ROOF
	WC	WATER CLOSET
	WHA	WATER HAMMER ARRESTER
	WCO	WALL CLEANOUT

PIPING MATERIALS SCHEDULE

Service	Location	Size	Material	Notes
WASTE & VENT	INTERIOR, AFF	ALL	STANDARD WEIGHT HUBLESS CAST IRON	SLOPED AT 1/4" PER FOOT
	INTERIOR, BELOW SLAB		STANDARD WEIGHT HUBLESS CAST IRON	
GREASE WASTE	ALL	ALL	SCH. 40 PVC - DWV	SLOPED AT 1/4" PER FOOT
CW / HW	INTERIOR, ABOVE GROUND	ALL	TYPE "L" COPPER	PEX PIPING NOT ACCEPTABLE; INSULATE PER SECTION 22 00 00
	INTERIOR, BELOW SLAB	ALL	TYPE "K" COPPER	
GAS	EXTERIOR, ABOVE GRADE	ALL	BLACK STEEL THREADED	2" AND SMALLER - THREADED CONNECTIONS, LARGER THAN 2" - WELDED CONNECTIONS
COND. DRAIN	ALL	ALL	TYPE M - HARD TEMPER COPPER	SLOPED AT 1/8" PER FOOT

WATER AND WASTE FIXTURE UNIT CALCULATIONS

Project: Corning Veterans Hall **Occupancy:** Public

Sized Per Appendix A and Table A103.1

Fixture	No:	Cold Water		Hot Water		Waste	
		FU/FIX	FU TOTAL	FU/FIX	FU TOTAL	DFU/FIX	DFU TOTAL
TOILET	4	5.0	20	--	--	4.0	16
URINAL	2	2.0	4	--	--	1.0	2
LAVATORY	4	1.0	4	0.75	3	1.0	4
MOP SINK	2	3.0	6	2.25	4.5	3.0	6
HAND SINK	2	1.0	2	0.75	1.5	1.0	2
2-COMP SINK	1	2.0	2	1.5	1.5	3.0	3
HOSE BIBB	1	2.5	2.5	--	--	--	--
HOSE BIBB ADDTL	4	1.0	4	--	--		
3-COMP SINK FAUCETS	2	2.0	4	1.5	3	4.0	8
DRINKING FOUNTAIN	1	0.5	0.5	--	--	0.5	0.5
FLOOR DRAIN	2	--	--	--	--	2.0	4
DISHWASHER	1	1.5	1.5	1.125	1.125	2.0	2

Total Fixture Units	CW FU	50.5	HW FU	7.1	DFU	19.5
	Line Size	2"	Line Size	1-1/2"	San. Size	4"
	GPM	51.5	GPM	6.5	Max DFU	216.0
	FPS	5.4	FPS	2.4		
	PSI / 100	2.9	PSI / 100	1.8		

Pressure Available at Water Main	60	psi
Backflow Preventer Loss	15	psi
Water Meter Loss	5	psi
Elevation Loss	3.0	psi
Minimum Pressure Required at Fixture	25	psi
Total Pipe Friction Loss Available	12.0	psi
Approximate Total Equivalent Length	250	ft.
Maximum Allowable Pipe Friction Loss per 100 Feet	**4.8**	psi

GREASE INTERCEPTOR SIZING TABLE

Plan Tag	Description	No:	Waste	
			DFU/FIX	DFU TOTAL
SK	SINK	2	3.0	6.0
FD	FLOOR DRAIN	3	2.0	6.0
FS	FLOOR SINK, 0 TO 7-1/2 GPM	4	1.0	4.0
FS	FLOOR SINK, 7-1/2 TO 15 GPM	1	2.0	2.0
FS	FLOOR SINK, 15 TO 30 GPM	1	4.0	4.0
MS	MOP SINK	1	2.0	2.0

Total Fixture Units	DFU	24.0
	GW SIZE	4"
	MAX DFU	32.0
Min Required Interceptor Volume	1000 GAL	
Design Interceptor Volume	1000 GAL	

Drainage Fixture Units Based on Tables 702.1, Table 702.2(b) and Grease Interceptor Volume Based on Table 1014.3.6 of CPC

GAS PIPE SIZING TABLE

PER TABLE 1215.1(1) OF 2022 CPC

Location	Equipment	Demand (MBh)
CORNING VETERANS HALL	MAU-1	132
	RANGE	310
	FRYERS	244
	OVEN	80
	TOTAL	766
	DISTRIBUTION PRESSURE	7" W.C.
	DEVELOPED LENGTH	175 FT
	GAS LINE SIZE	2"
	MAX DEMAND	854 MBh

PLUMBING FIXTURE SCHEDULE

ID	Make	Model No.	Description	Mounting	Material
WC-1	KOHLER	K-96057	ACCESSIBLE HEIGHT FLUSH VALVE WATER CLOSET, HIGHCLIFF MODEL, ADA COMPLIANT, SLOAN ROYAL 111-1.28 MANUAL 1.28 GPF FLUSH VALVE. ELONGATED BOWL, 1-1/2" TOP SPUD, OLSONITE #95 COMFORT CURVE OPEN FRONT SEAT. DIMENSIONS: 26-1/8" LONG x 14-5/8" WIDE x 16-5/8" HIGH	FLOOR	VIT.CHINA
UR-1	KOHLER	K-4991-ET	ACCESSIBLE HEIGHT HIGH EFFICIENCY 0.125 GPF MAXIMUM FLUSH VALVE URINAL WITH WASHOUT ACTION, 14" EXTENDED RIM, SLOAN ROYAL 186-0. 125 MANUAL FLUSH VALVE, 3/4" TOP SPUD, J.R. SMITH CARRIER. 0.125 GALLON PER FLUSH MAXIMUM. (REFER TO ARCH. FOR MOUNTING HEIGHT) DIMENSIONS: 24" MAX TO RIM	WALL	VIT.CHINA
L-1	SLOAN	SS-3001	UNDER MOUNT LAVATORY WITH OVERFLOW, HOT/COLD WATER HOLES 4" O.C., CHICAGO FAUCET 420-E2805-ABCP SINGLE LEVER HOT & COLD WATER MIXING FAUCET, 0.5 GPM, J.R. SMITH CONCEALED ARM SUPPORT, INCULATED WATER AND TRAP LINES DIMENSIONS: 20" x 18"	COUNTER	VIT.CHINA
SK-1	--	--	SINK BY OTHERS	--	--
SK-2	--	--	SINK BY OTHERS	--	--
SK-3	--	--	SINK BY OTHERS	--	--
MS-1	FLORESTONE	MSR-2424	24" x 24" x 12" MOLDED MAP RECEPTOR, ONE-PIECE DESIGN, INTEGRAL DRAIN, 3" DRAIN SIZE, CHICAGO #897-CP SERVICE SINK FAUCET WITH VACUUM BREAKER, WALL BRACE, HOSE THREAD ON SPOUT, PAIL HOOK.	FLOOR	MOLDED PLASTIC
MS-2	ZURN	EFSC3321C	33" x 21" x 8" SINGLE BOWL, FULL SPRAY SIDES, BOTTOM ONLY PADS, CENTER DRAIN PLACEMENT, 4-9/16" DRAIN SIZE, CHICAGO #897-CP SERVICE SINK FAUCET WITH VACUUM BREAKER, WALL BRACE, HOSE THREAD ON SPOUT, PAIL HOOK.	FLOOR	STAINLESS STEEL
FS-1	J.R. SMITH	3420Y-12	CAST IRON FLOOR SINK WITH 12" SQUARE TOP, 6" DEEP, ACID RESISTANT COATED INTERIOR, LOOSE SET ACID RESISTANCE COATED CAST IRON 1/2 GRATE, AND ALUMINUM DOME BOTTOM STRAINER.	FLOOR	CAST IRON
FD-1	J.R. SMITH	2005Y	2" NPT CONNECTION, 5" NICKLE BRONZE ADJUSTABLE STRAINER HEAD, TRAP PRIMER CONNECTION, FLUSH WITH FLOOR SURFACE, ADJACENT FLOORING SHALL BE SLOPED TO FLOOR DRAIN.	FLOOR	CAST IRON
DF-1	ELKAY	LZSTL8WSSK	HI/LO ELECTRIC WATER COOLER WITH BOTTLING STATION, REFRIGERATED, 115V ELECTRICAL SERVICE, 5 F.L. AMPS, 370 WATTS. PROVIDE FLEXI-GAURD SAFETY BUBBLER AND SUPPORT CARRIER. (REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT).	WALL	STAINLESS STEEL
(R) WH-1	RHEEM	XE50T06ST45U1	ELECTRIC WATER HEATER, 50 GALLON STORAGE CAPACITY, 20.25" DIAMETER, 59" TALL, 21 GPH RECOVERY AT 90°F TEMP RISE, ELECTRIC 240V, 1 PHASE, 3 KW ELEMENT, 140°F TEMP SETTING, 121 LB EMPTY, 550 LBS FULL.	ON STAND	--
WH-2	A.O. SMITH	DRE-80-24	80 GALLON GOLD SERIES ELECTRIC STORAGE TANK WATER HEATER, 24 KW ELEMENT, 109 GPH RECOVERY AT 90°F RISE, ASME 160 PSI GLASS LINED TANK CONSTRUCTION, 140°F TEMPERATURE SETTING. DIMENSIONS: 60" HIGH, 25.5" DIAMETER, 31" TOTAL WIDTH WEIGHT: 280 LBS EMPTY, 960 LBS FULL ELECTRICAL: 208V/3Ø/60, 66.6 FLA.	--	--
ET-1	AMTROL	ST-5-C	4.0 GALLON STAINLESS STEEL EXPANSION TANK, 200°F MAXIMUM OPERATING TEMP, 250 PSIG MAX WORKING PRESSURE, POLYPROPYLENE LINER, SHEEL CONSTRUCTED OF POWDER COATED STEEL DIMENSIONS: 8" DIAMETER x 14" HEIGHT	WALL	STEEL
ET-2	AMTROL	ST-12-C	THERMAL EXPANSION TANK WITH ACCEPTANCE VOLUME OF 6.4 GALLONS, RATED UP TO 250 PSIG WORKING PRESSURE AND 200°F OPERATING TEMPERATURE, HEAVY DUTY BUTYL DIAPHRAGM, POLYPROPYLENE LINER, STEEL SHEEL, 1-1/4" STAINLESS STEEL CONNECTION, ASME RATED TANK. WEIGHT: 100 LBS	WALL	STEEL
RCP-1	BELL AND GOSSETT	E3-6V/BUPYZ	OPEN SYSTEM RECIRCULATION PUMP, 230°F MAX TEMP, 36°F MIN TEMP, 150 PSI MAX SYSTEM PRESSURE, ADJUSTABLE THERMOSTAT, 1/2" LEAD-FREE BRASS UNION CONNECTIONS, E3 TIMER AND HIGH EFFICIENCY ECM MOTOR, 115V, 28 WATT.	WALL	--
RCP-2	BELL AND GOSSETT	E3-6V/BUPYZ	OPEN SYSTEM RECIRCULATION PUMP, 230°F MAX TEMP, 36°F MIN TEMP, 150 PSI MAX SYSTEM PRESSURE, ADJUSTABLE THERMOSTAT, 1/2" LEAD-FREE BRASS UNION CONNECTIONS, E3 TIMER AND HIGH EFFICIENCY ECM MOTOR, 115V, 28 WATT.	WALL	--
TP-1	PPP	LTP-1500	1-1/2" TAIL PIECE FLOOR DRAIN TRAP PRIMING ASSEMBLY, 1/2" BRAIDED STAINLESS STEEL PRIMING WATER LINE WITH 1/2" COMPRESSION FITTING, CHROME-PLATED ESCUTCHEONS FOR BOTH WALL TUBE AND MAKE UP WATER LINE.	UNDER SINK	--
TP-2	PPP	PT-4	FLUSH MOUNT ELECTRONIC TRAP PRIMING ASSEMBLY, SERVES UP TO 6 FLOOR DRAINS, ATMOSPHERIC VACUUM BREAKER, PRE-SET 24 HOUR CHARGE, MANUAL OVERRIDE SWITCH, 3/4" COPPER MANIFOLD, AND STANDARD IN-WALL CABINET. ELECTRICAL: 120V AC DIMENSIONS: 14"W x 16"H x 4"D	WALL	--
TMV-1	WATTS	LFUSG-B	1/2" THERMOSTATIC MIXING VALVE, 0.5 GPM MINIMUM FLOW, 120°F INLET TEMPERATURE, 110°F OUTLET, INTEGRAL CHECK VALVES, LEAD FREE BRASS BODY, LISTED TO ASSE 1070 AND LAMPO LISTED.	UNDER COUNTER	--
WHA-1	ZURN	Z1700	SHOKTROL WATER HAMMER ARRESTOR, INSTALL WITH GATE VALVE SHUTOFF. PROVIDE WITH 12"x12" CEILING ACCESS DOOR WHERE INSTALLED.	--	--
RD-1	ZURN	Z164	12" DIAMETER COMBINATION ROOF AND OVERFLOW DRAIN WITH LOW SILHOUTTE DOMES AND DOUBLE TOP-SET DECK PLATE, DURA-COATED CAST IRON BODIES WITH COMBINATION MEMBRANE FLASHING CLAMP / GRAVEL GUARDS, NO HUB OUTLET. 3" OUTLET SIZE.	ROOF	CAST IRON
DS-1	ZURN	Z199	DOWNSPOUT NOZZLE. ALL NICKEL BRONZE BODY, DECORATIVE FACE OF WALL FLANGE AND OUTLET. SEE PLAN FOR INLET SIZE.	WALL	BRONZE
HB-1	J.R. SMITH	5519	1/4 TURN NON-FREEZE WALL HYDRANT, AUTOMATIC DRAINING, STAINLESS STEEL FACE, INTEGRAL VACUUM BREAKER AND DUAL CHECK VALVE, T" HANDLE KEY, 3/4" NPT CONNECTION. TAMPER PROOF LOCKING ENCLOSURE, LOCATE 24" ABOVE FINISHED GRADE OR ROOF SURFACE UNLESS OTHERWISE SPECIFIED.	WALL	BRONZE
HB-2	WOODFORD	SRH-MS	FREEZELESS SANITARY ROOF HYRDANT ASSE 1057 LISTED, NO DRAIN LINE REQUIRED, 3/4" INLET CONNECTION, 100 PSI MAX WORKING PRESSURE, MAX TEMP 120°F, ASSE 1052 DUAL CHECK BACKFLOW PREVENTER AND DRAIN, CAST IRON HYDRANT SUPPORT MOUNTING SYSTEM WITH UNDERDECK FLANGE, AND EPDM BOOT COVER	ROOF	--

PLUMBING FIXTURE CONNECTION SCHEDULE

ID	Description	Accessible	Connection Size (Inches)			
			Waste	Vent	CW	HW
WC-1	WATER CLOSET	YES	4"	2"	1-1/2"	--
UR-1	URINAL	YES	2"	1-1/2"	1/2"	--
L-1	LAVATORY	YES	2"	1-1/2"	1/2"	1/2"
SK-1	SINK	--	2"	1-1/2"	1/2"	1/2"
SK-2	SINK	--	2"	1-1/2"	1/2"	1/2"
SK-3	SINK	--	2"	1-1/2"	1/2"	1/2"
MS-1	MOP SINK	NO	3"	1-1/2"	1/2"	1/2"
MS-2	MOP SINK	NO	4"	1-1/2"	1/2"	1/2"
FS-1	FLOOR SINK	--	3"	1-1/2"	--	--
FD-1	FLOOR DRAIN	--	2"	1-1/2"	1/2"	--
DF-1	DRINKING FOUNTAIN	YES	2"	1-1/2"	1/2"	--
HB-1	HOSE BIBB	--	--	--	3/4"	--
HB-2	HOSE BIBB	--	--	--	3/4"	--

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REGISTERED PROFESSIONAL ENGINEER JASON T. MUNKELWITZ M38824 EXP. 9-30-2025 MECHANICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PLUMBING LEGEND AND SCHEDULES

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	EG
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

P100

DEMOLITION GENERAL NOTES:

1. FIELD-VERIFY EXISTING CONSTRUCTION DEPICTED IN THESE DRAWINGS AS IT IS UNCOVERED DURING CONSTRUCTION. NOTIFY THE COUNTY PROMPTLY IF EXISTING CONDITIONS ARE NOT AS INDICATED.
2. COORDINATE DEMOLITION WORK OF ALL DISCIPLINES WITH LOCATIONS AND DIMENSIONS OF NEW CONSTRUCTION INDICATED IN THESE DRAWINGS. PRIOR TO COMMENCING ANY DEMOLITION WORK, COORDINATE WITH APPROVED SHOP DRAWINGS AND MANUFACTURER'S DATA FOR NEW SYSTEMS, EQUIPMENT, FEATURES OF CONSTRUCTION AND TEMPORARY AND FINAL CONDITIONS AS INDICATED INTHESE DOCUMENTS
3. DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT, AND FINISHES SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER, WITH CLEAN, STRAIGHT EDGES SUITABLE TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
4. ALL EXISTING CONSTRUCTION, FIXTURES, EQUIPMENT AND FINISHES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND NEW CONSTRUCTION.
5. AT WALLS TO BE REMOVED, WORK SHALL INCLUDE REMOVAL AND CAPPING OFF OF ALL MECHANICAL, PLUMBING, AND RELATED PIPING, FIXTURES, CONDUIT, CABLING AND ALL OTHER EQUIPMENT WITHIN WALLS.
6. REMOVE ALL PIPING, FIXTURES AND HANGERS UNLESS OTHERWISE NOTED.

KEYED NOTES:

1. EXISTING BOILER LOCATED BELOW STAGE SHALL REMOVED. REMOVE ALL PUMPS, PIPING, FLUES, VALVES, SENSORS, ELECTRICAL CONNECTIONS, WIRING, AND DISTRIBUTION PIPING THROUGHOUT BUILDING SERVING HYDRONIC HEATERS AND MAKEUP WATER SYSTEM. PIPING SHALL BE REMOVED TO PREVENT ANY DEAD LEG PIPING.
2. VERIFY POINT OF DISCONNECTION PER CIVIL DRAWINGS.
3. REMOVE PLUMBING FIXTURE AND WATER AND WASTE PIPING.
4. DISCONNECT EXISTING WATER AND ELECTRICAL CONNECTIONS FROM EXISTING WATER HEATERS. WATER HEATER SHALL BE RELOCATED. SEE NEW PLANS FOR LOCATION.
5. REMOVE EXPOSED GAS PIPING ALONG WALL AND MECHANICAL SHUTOFF VALVE.
6. REMOVE EXISTING GAS SERVICE AND DISTRIBUTION PIPING SERVING BUILDING NORTH OF THE VETERAN'S HALL. COORDINATE REMOVAL OF GAS SERVICE WITH PG&E.

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REGISTERED PROFESSIONAL ENGINEER · JASON T. HUNT · M38674 · EXP. 9-30-2025 · MECHANICAL · STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PLUMBING DEMOLITION PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	EG
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

P200

1 P200 PLUMBING DEMOLITION PLAN
1/4" = 1'-0"

N

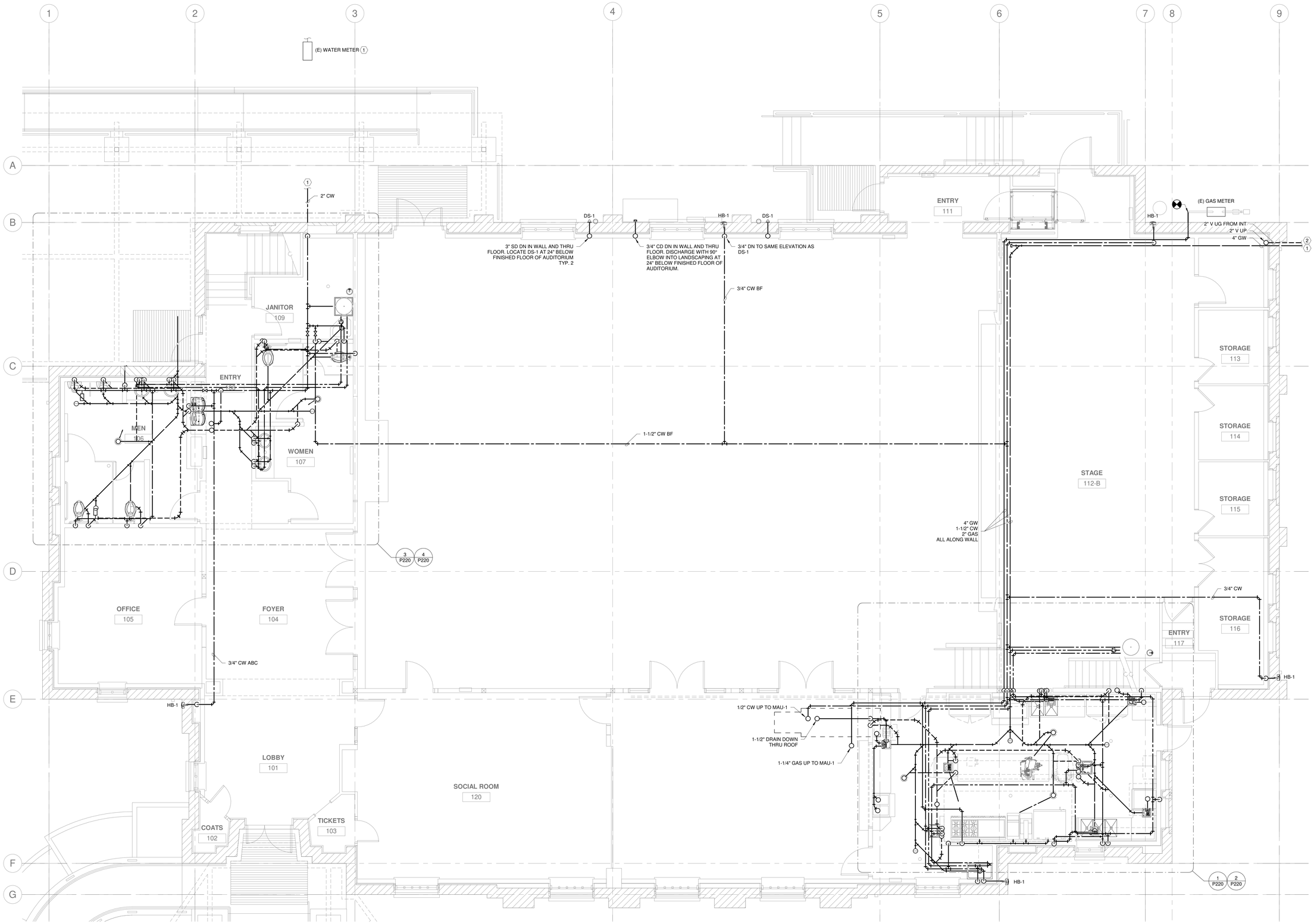
GENERAL NOTES:

1. ALL WATER PIPING LOCATED OUTDOORS, IN UNCONDITIONED SPACES AND EXTERIOR WALLS SHALL BE INSULATED.

KEYED NOTES:

(1) SEE CIVIL DRAWINGS FOR CONTINUATION.

(2) ROUTE 4" GREASE WASTE TO NEW 1000 GALLON GREASE INTERCEPTOR. SEE CIVIL FOR CONTINUATION.



1 P210 PLUMBING FIRST FLOOR PLAN

1/4" = 1'-0"

N

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JASON T. NUNES
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EXP. 9-30-2025
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PLUMBING FIRST FLOOR PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

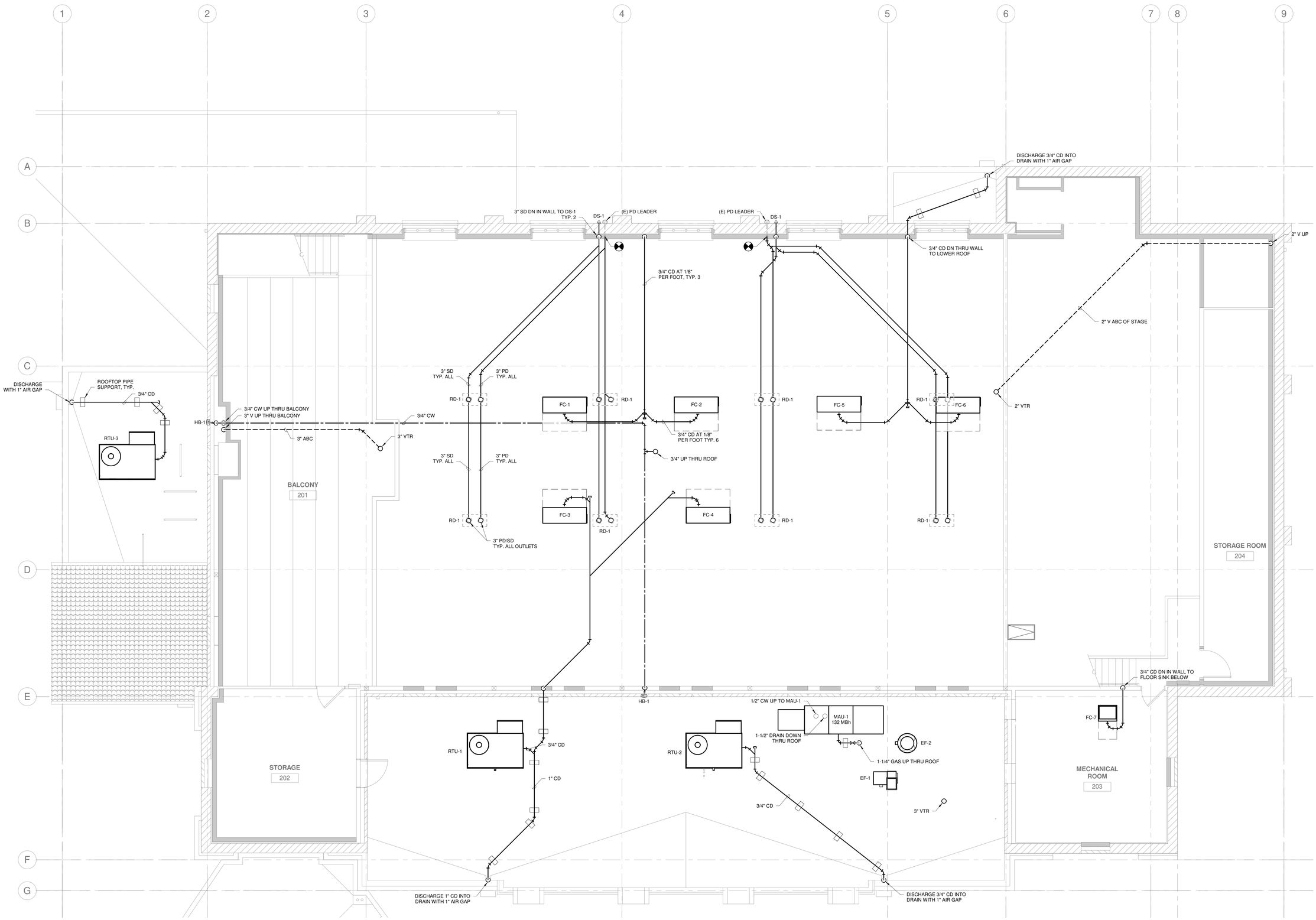
Drawn By	EG
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

P210

KEYED NOTES:

1. CONDENSATE PIPING SHALL BE SUPPORTED BY DURA-BLOK ROOFTOP SUPPORTS EVERY 6' MAXIMUM AND AT EACH CHANGE OF DIRECTION.
2. PRIMARY AND SECONDARY STORM DRAINAGE PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND SHALL SLOPE AT 1/8" PER FOOT.
3. MAINATAIN 10 FEET CLEARANCE BETWEEN VENTS THRU ROOF AND OUTSIDE AIR INTAKES.



1 P211 PLUMBING SECOND FLOOR PLAN
1/4" = 1'-0"

N

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PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PLUMBING SECOND FLOOR PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

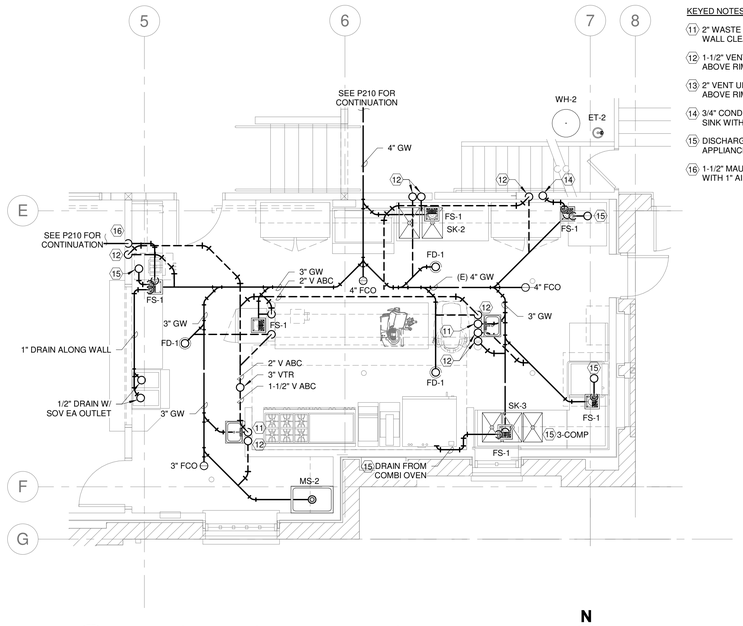
REVISIONS

Sym.	Description	Date

Drawn By	EG
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

P211



KEYED NOTES:

(11) 2" WASTE DOWN, 1-1/2" VENT UP IN WALL. PROVIDE WITH 2" WALL CLEANOUT.

(12) 1-1/2" VENT UP IN WALL. CONNECT VENT PIPE IN WALL 6" ABOVE RIM OF TALLEST FIXTURE.

(13) 2" VENT UP IN WALL. CONNECT VENT PIPE IN WALL 6" ABOVE RIM OF TALLEST FIXTURE.

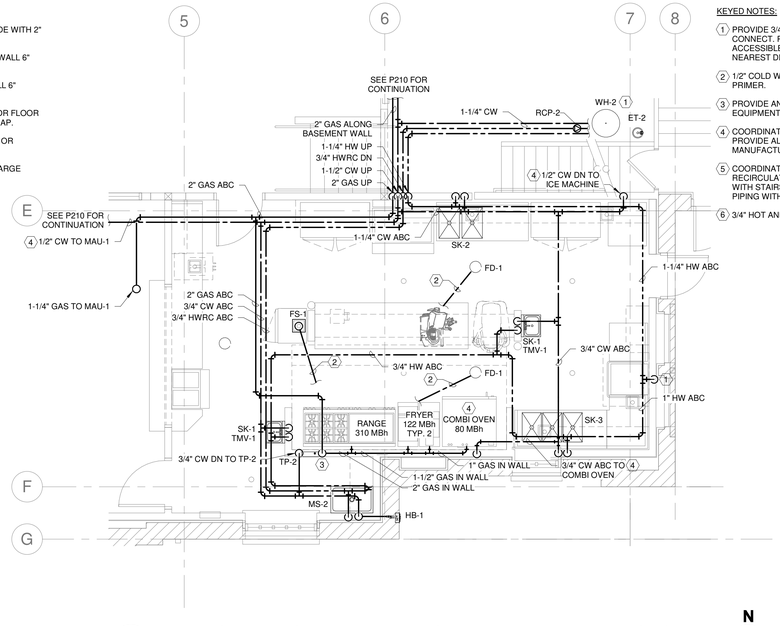
(14) 3/4" CONDENSATE DOWN IN WALL TO MOP SINK OR FLOOR SINK WITH 90° ELBOW. DISCHARGE WITH 1" AIR GAP.

(15) DISCHARGE INDIRECT DRAINAGE FROM FIXTURE OR APPLIANCE INTO FLOOR SINK WITH 1" AIR GAP.

(16) 1-1/2" MAU DRAIN DOWN IN WALL TO FS-1. DISCHARGE WITH 1" AIR GAP.

2 P220 ENLARGED KITCHEN PLUMBING PLAN - DWV

1/4" = 1'-0"



KEYED NOTES:

(1) PROVIDE 3/4" VALVED HOT WATER DOWN IN WALL TO DISHWASHER AND CONNECT. PROVIDE ASSE 1013 BACKFLOW PREVENTER ON DHW LINE IN AN ACCESSIBLE LOCATION. PROVIDE DRAIN LINE FROM BACKFLOW PREVENTER TO NEAREST DRAIN. PROVIDE PRESSURE REGULATOR AND BALANCE TO 20-25 PSI.

(2) 1/2" COLD WATER BELOW FLOOR TO FLOOR DRAIN OR FLOOR SINK FROM TRAP PRIMER.

(3) PROVIDE AND INSTALL NEW MECHANICAL GAS SHUTOFF VALVE FOR KITCHEN EQUIPMENT SHUTDOWN. INTERLOCK WITH ANSUL SYSTEM AT EH-1.

(4) COORDINATE WATER REQUIREMENTS WITH EQUIPMENT MANUFACTURER. PROVIDE ALL FILTERS AND ION EXCHANGERS AS INDICATED BY MANUFACTURER'S RECOMMENDATIONS.

(5) COORDINATE FINAL ROUTING OF NATURAL GAS HOT WATER, HOT WATER RECIRCULATION AND COLD WATER PIPING IN BASEMENT TO AVOID CONFLICT WITH STAIRS. PIPING SHALL BE TIGHT TO WALLS AND CEILING FRAMING ABOVE. PIPING WITHIN KITCHEN SPACE SHALL BE RUN ABOVE CEILING.

(6) 3/4" HOT AND COLD WATER TO MOP SINK

1 P220 ENLARGED KITCHEN PLUMBING PLAN - WATER AND GAS

1/4" = 1'-0"

4 P220 ENLARGED RESTROOM PLUMBING PLAN - DWV

1/4" = 1'-0"

3 P220 ENLARGED RESTROOM PLUMBING PLAN - WATER

1/4" = 1'-0"

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PROJECT NAME

TEHAMA COUNTY
CORNING
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1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ENLARGED PLUMBING PLANS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

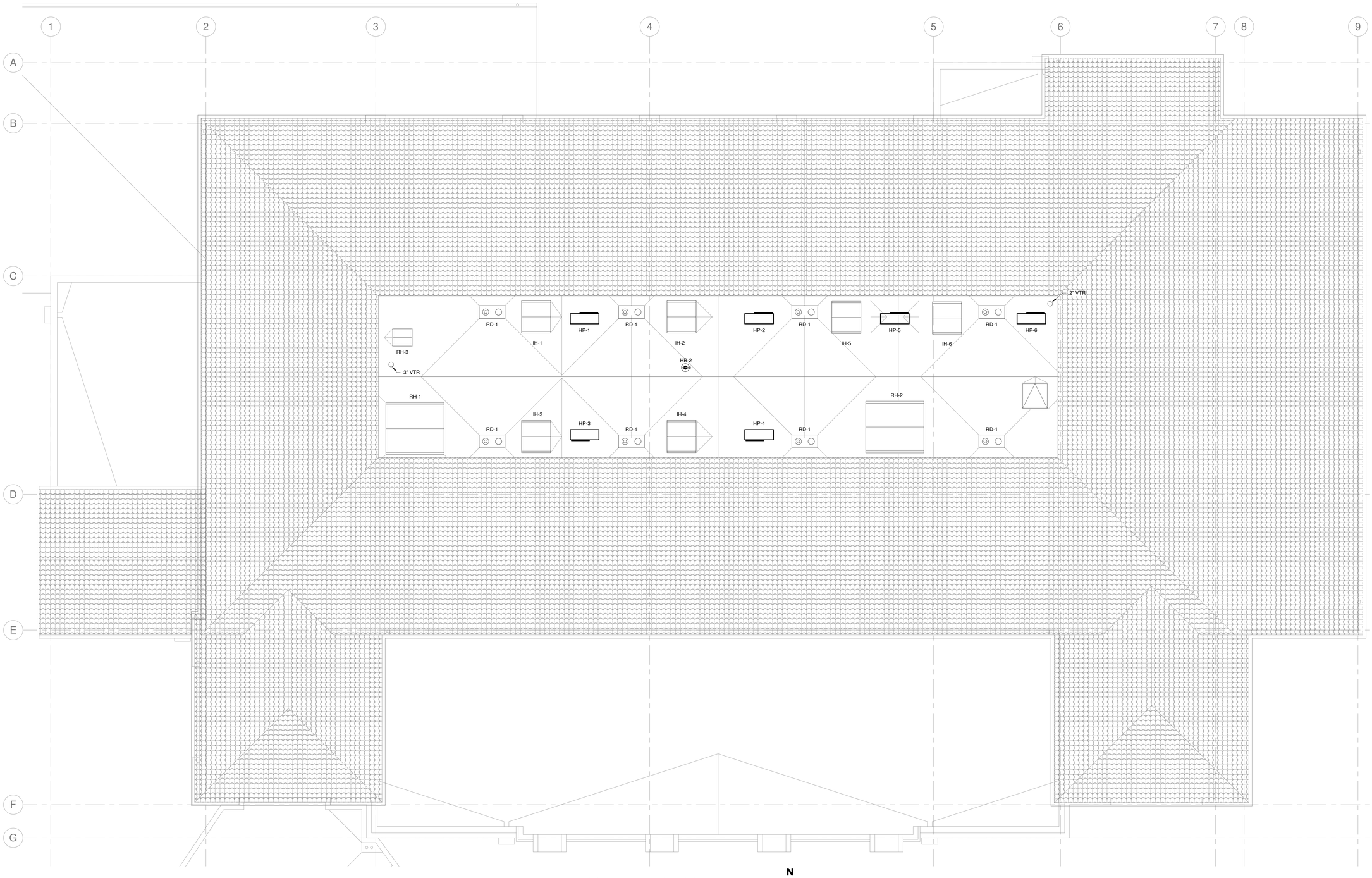
Drawn By	EG
Date Issued	2/13/2025
Scale	1/4" = 1'-0"
Project No.	21-6497

SHEET No.

P220

GENERAL NOTES:

1. MAINTAIN 10 FEET CLEARANCE BETWEEN VENTS THRU ROOF AND OUTSIDE AIR INTAKES.



1 P240 PLUMBING ROOF PLAN
1/4" = 1'-0"

N

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EXP. 9-30-2025
MECHANICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1628 SOLANO ST.
CORNING, CA

SHEET TITLE

PLUMBING ROOF PLAN

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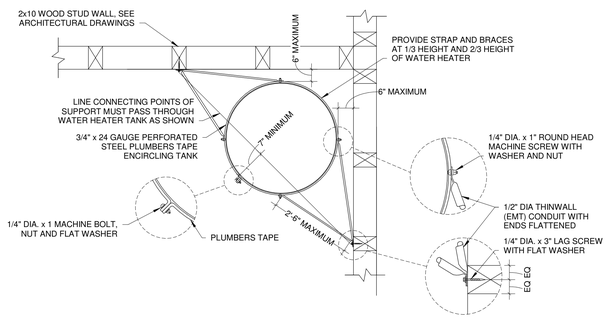
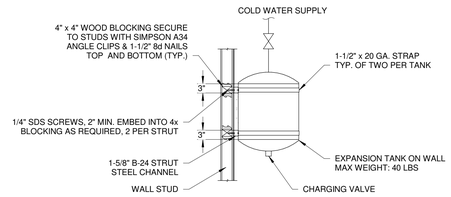
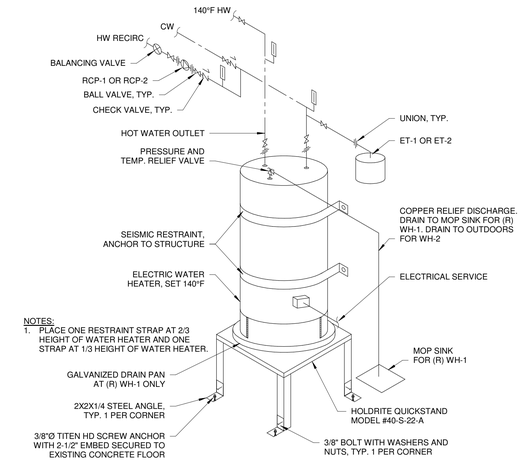


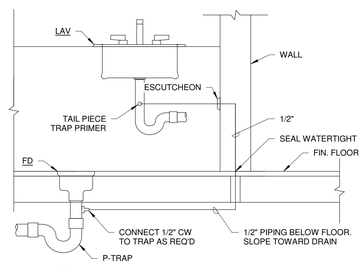
3 P300 **WATER HEATER RESTRAINT DETAIL**
NOT TO SCALE



2 P300 **EXPANSION TANK DETAIL**
NOT TO SCALE

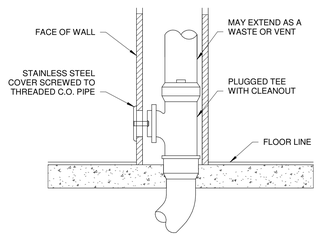


1 P300 **ELECTRIC WATER HEATER DETAIL**
NOT TO SCALE



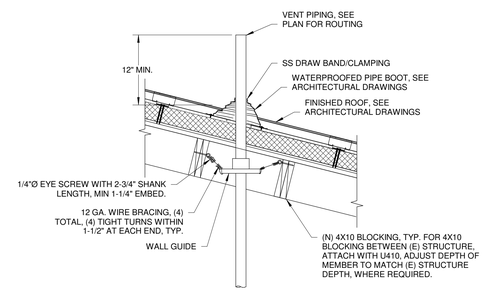
NOTE:
1. INSTALL FLOOR DRAIN TRAP PRIMERS ON ALL FLOOR DRAINS.
2. TRAP PRIMER SHALL BE INSTALLED PER MANUFACTRURERS INSTRUCTIONS.

6 P300 **FLOOR DRAIN TRAP PRIMER DETAIL**
NOT TO SCALE



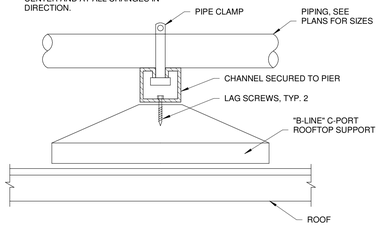
NOTES:
1. POSITION PIPE TO AVOID OBSTRUCTIONS TO CLEAN-OUTS.
2. PROVIDE C.O. AT ALL VERTICAL SANITARY/VENT STACKS.

5 P300 **WALL CLEAN-OUT DETAIL**
NOT TO SCALE



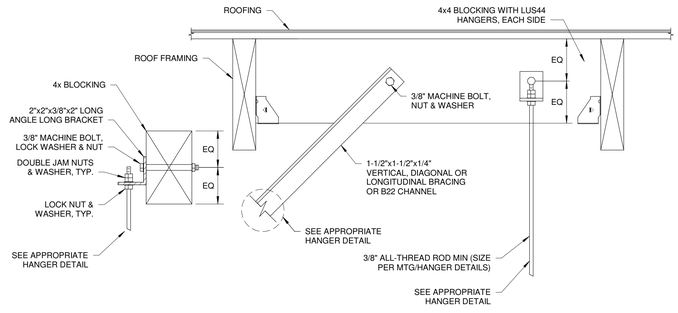
4 P300 **VENT THROUGH ROOF DETAIL**
NOT TO SCALE

NOTES:
1. PLACE SUPPORTS AT 8'-0" ON CENTER AND AT ALL CHANGES IN DIRECTION.

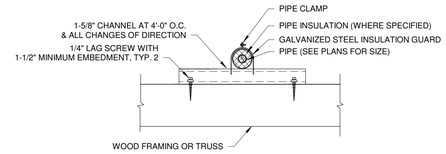


ELEVATION

9 P300 **PIPE SUPPORT ON ROOF DETAIL**
NOT TO SCALE



8 P300 **TYPICAL PIPE HANGER CONNECTION DETAILS**
NOT TO SCALE



7 P300 **TYPICAL PIPE SUPPORT**
NOT TO SCALE

PIPE HANGER SCHEDULE		
TYPE OF PIPE	SIZE OF PIPE	HANGER SPACING
STEEL THREADED PIPE	3/4" SIZE AND SMALLER 1" SIZE AND LARGER	10 FT. INTERVALS 12 FT. INTERVALS
COPPER TUBE	1-1/4" SIZE AND SMALLER 1-1/2" SIZE AND LARGER	6 FT. INTERVALS 10 FT. INTERVALS
PLASTIC PIPE	ALL SIZES	4 FT. INTERVALS PROVIDE SUPPORTS AT END OF ALL BRANCHES AND AT ALL CHANGES OF DIRECTION & ELEVATION.
CAST IRON PIPE	ALL SIZES	MINIMUM OF 1 HANGER PER PIPE LENGTH LOCATED WITHIN 18" OF EACH JOINT (UP TO 10 FT. MAXIMUM), AT CHANGES IN DIRECTION AND AT BRANCH CONNECTIONS

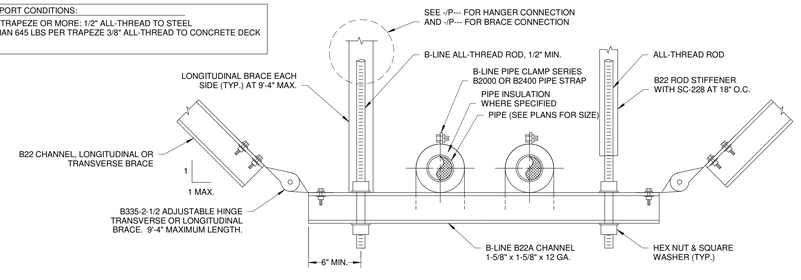
NOTES:

1. RUN PIPING TRAPEZE AS CLOSE AS POSSIBLE TO STRUCTURE.
2. SUPPORT PIPING AT A MAXIMUM OF 8'-0" INTERVALS
3. SEE PLANS FOR PIPE SIZES
4. CHANNEL DEFLECTION SHALL NOT EXCEED 1/360 OF SPAN BETWEEN RODS. DOUBLE-UP CHANNELS AS REQUIRED
5. PROVIDE "B-LINE" CHANNEL ROD STIFFENER AT ALL-THREAD WHERE DIAGONAL BRACE OCCURS. INCLUDE SC228 ASSEMBLY AS RECOMMENDED BY MANUFACTURER.
6. NO BRACING REQUIRED ON PIPES WITH LESS THAN 1" I.D. AND ALL OTHER PIPES LESS THAN 2-1/2"

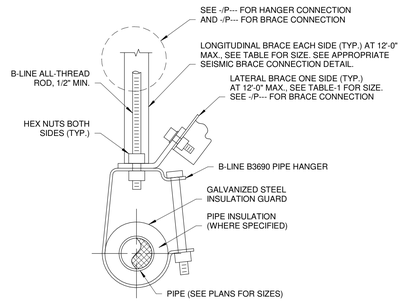
TABLE 1	
Angle (Inches)	Max. Length (Inches)
1-1/2 x 1-1/2 x 1/8	3'-0"
2 x 2 x 3/16	6'-0"
3 x 3 x 1/4	8'-0"

MINIMUM ROD SIZES	
Min.Rod Sizes (Inches)	Pipe Diameter
3/8	2" AND SMALLER PIPE
1/2	2-1/2" AND 3" PIPE
5/8	4" PIPE

TRAPEZE LOAD & SUPPORT CONDITIONS:
HEAVY: 645 LBS PER TRAPEZE OR MORE: 1/2" ALL-THREAD TO STEEL
NOT HEAVY: LESS THAN 645 LBS PER TRAPEZE 3/8" ALL-THREAD TO CONCRETE DECK



10 P300 **TYPICAL PIPE HANGER**
NOT TO SCALE



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EXP. 9-30-2025

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Project No.	21-6497

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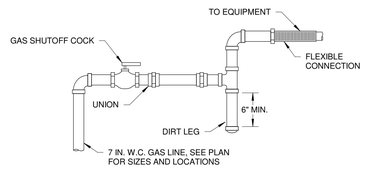
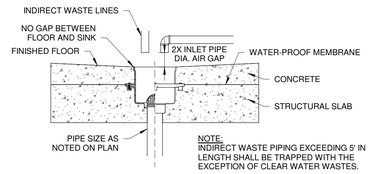
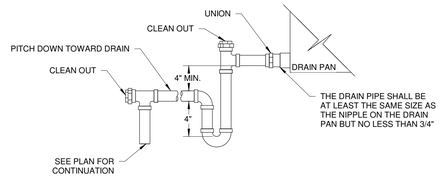


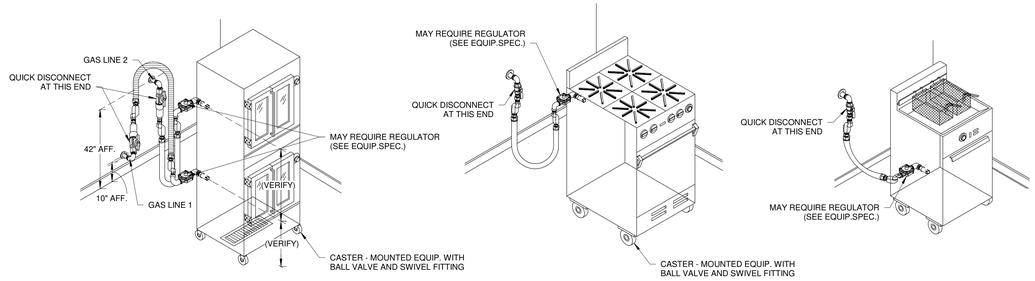
3 P301 GAS CONNECTION DETAIL
NOT TO SCALE



2 P301 FLOOR SINK DETAIL
NOT TO SCALE



1 P301 HVAC CONDENSATE DRAIN DETAIL
NOT TO SCALE



4 P301 TYPICAL GAS CONNECTION DETAILS
NOT TO SCALE

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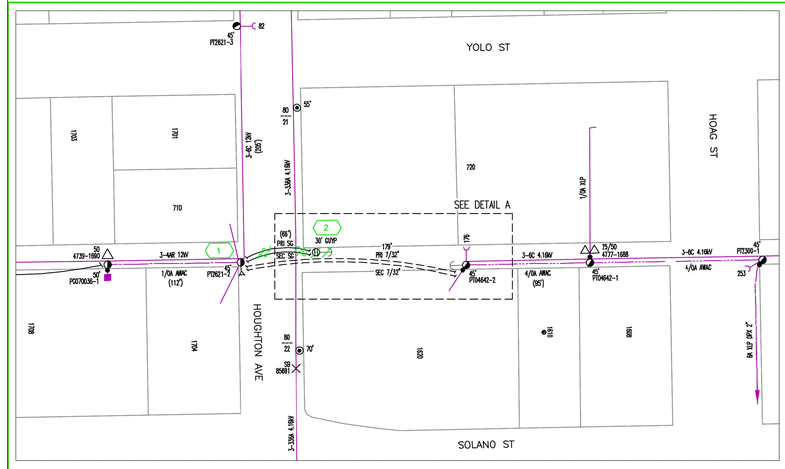

YOLO ST
HOAG ST
HOUGHTON AVE
SOLANO ST
SEE DETAIL A
720
710
1/0A XLP
3-4/0 AAAC 120V
3-#2 4.16kV (SEC)
3-336A 4.16kV
3-#2 4.16kV
3-#2 4.16kV
4/0A AAAC
4/0A AAAC (SEC)
4/0A AAAC
4/0A AAAC (1ST)
3-#2 4.16kV
4/0A AAAC
4/0A AAAC
PT2621-3
PT2621-2
PT2621-1
PT2300-1
PT2300-2
PT2300-3
PT2642-2
PT2642-1
PG370036-1
4729-1880
4777-1688
30' GUYP
PRI 7/32"
SEC 7/32"
179'
253'
DETAIL A
SCALE 1:10
(LOCATION 2)
30' GUYP
LOCATION 3
RISER QUADRANT
PROPERTY LINE
PROPERTY LINE
179'
PRI 7/32"
SEC 7/32"
PT2642-2
(6')
3-#2 4.16kV
4/0A AAAC
(6'/7'/14')
(1'/21'/42')
REMOVABLE BARRIER POST
FIXED BARRIER POST
6'
42"
42"
42"
42"
34"
18"
18"
18

ABBREVIATIONS

4S/DP	4" SQUARE BY 2-1/8" DEEP BOX
ADA	AMERICAN WITH DISABILITIES ACT
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AWG	AMERICAN WIRE GAUGE
AMP, A	AMPERE
A.I.C. or AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
A.F.C. or AFC	AVAILABLE FAULT CURRENT
AF/AT	AMP FRAME, AMP TRIP
AHJ	AUTHORITY HAVING JURISDICTION
AS/AF	AMP SWITCH, AMP FUSE
ATS	AUTOMATIC TRANSFER SWITCH
AVG	AVERAGE
BJ	BONDING JUMPER
BDF	BUILDING DISTRIBUTION FRAME
BR	BRANCH
BLDG	BUILDING
CBC	CALIFORNIA BUILDING CODE
CEC	CALIFORNIA ELECTRICAL CODE
CIRC., CKT.	CIRCUIT
CB	CIRCUIT BREAKER
CSFD	COMBINATION SMOKE FIRE DAMPER
C	CONDUIT
C.O.	CONDUIT ONLY, COMPLETE WITH PULLSTRING
CONN	CONNECTED
CPT	CONTROL POWER TRANSFORMER
CLCB	CURRENT LIMITING CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CT	CURRENT TRANSFORMER
(D)	EXISTING DEVICE TO BE DEMOLISHED
DAS	DISTRIBUTED ANTENNA SYSTEM
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
D.P.C.S.	DIMMING PANEL CONTROL STATION
E.C.	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
EWC	ELECTRIC WATER COOLER
E.P.O.	EMERGENCY POWER OFF
E-O-L	END-OF-LINE CIRCUIT TERMINATOR
EF	EXHAUST FAN
EGC or EG or E/G	EQUIPMENT GROUND (GREEN)
(E)	EXISTING DEVICE TO REMAIN
EP	EXPLOSION PROOF
(ER)	EXISTING DEVICE TO BE RELOCATED
FT or '	FEET
FA or F.A.	FIRE ALARM
FLA	FULL LOAD AMPS
GRD	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GE or GEC	GROUNDING ELECTRODE CONDUCTOR
HACR	HEATING AIR CONDITIONING REFRIGERATION
HOA	HAND-OFF-AUTO
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
H, W, D, L.	HEIGHT, WIDTH, DEPTH, LENGTH
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IN. or "	INCHES
I/G	ISOLATED GROUND
IBC	INTERNATIONAL BUILDING CODE
I.D.C.S.	INTEGRATED DIMMING CONTROL PANEL
IDF	INTERMEDIATE DISTRIBUTION FRAME
JBOX	JUNCTION BOX
K	DEGREE KELVIN
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT HOUR
LCL	LONG CONTINUOUS LOAD
LF, L.F.	LINEAR FEET
LTG, LTS	LIGHTING
LPS	LOW PRESSURE SODIUM
MAX.	MAXIMUM
MBJ	MAIN BONDING JUMPER
MDF	MAIN DISTRIBUTION FRAME
MOCP	MAXIMUM OVERCURRENT PROTECTION
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
M.C.	MECHANICAL CONTRACTOR
M	METER
MM	METER MAIN
MV	MERCURY VAPOR
MH	METAL HALIDE
MIN.	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MCP	MOTOR CIRCUIT PROTECTOR
MFR.	MANUFACTURER
MTD	MOUNTED
MW	MICROWAVE
NATS	NON AUTOMATIC DISCONNECT
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NF	NON-FUSED
NIC	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NL	NIGHT LIGHT
NO. or #	NUMBER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
%Z	PERCENT IMPEDANCE
PH. or ø	PHASE
PC	PHOTOCELL
P.C.	PLUMBING CONTRACTOR
P	POLE
PVC	POLY VINYL CHLORIDE
PDU	POWER DISTRIBUTION UNIT
PRIMARY	OVER 600 VOLTS
PROVIDE	FURNISH, INSTALL AND CONNECT
PT	POTENTIAL TRANSFORMER
PA	PUBLIC ADDRESS
(R)	DENOTES RELOCATED DEVICE LOCATION.
REC, RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
RMS	ROOT MEAN SQUARE
SCC	SHORT CIRCUIT CURRENT
SCCR	SHORT CIRCUIT CURRENT RATING
SCS	STRUCTURED CABLING SYSTEM
SFD	SMOKE FIRE DAMPER
SECONDARY	600 VOLTS AND LESS
SMACNA	SHEET METAL AND AIR COND. CONTRACTOR'S NAT'L ASSOC.
SQ.	SQUARE
SSBJ	SUPPLY SIDE BONDING JUMPER
SBJ	SYSTEM BONDING JUMPER
TC	TIMECLOCK
TEL/DATA	TELEPHONE AND DATA
TV	TELEVISION
T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP.	TYPICAL
U.G.P.S.	UNDERGROUND PULL SECTION
U.O.N.	UNLESS OTHERWISE NOTED
U.P.S. or UPS	UNINTERRUPTABLE POWER SYSTEM
VAV	VARIABLE AIR VOLUME
V	VOLTS
VA	VOLT AMPERES
VD	VOLTAGE DROP
WP	WEATHERPROOF
W	WIRE
XFMR	TRANSFORMER

FIRE ALARM SYSTEM SYMBOLS

SEE FIRE ALARM OR CENTRAL MONITORING SYSTEM DRAWINGS FOR FIRE ALARM SYMBOLS.

SECURITY INTRUSION ALARM SYSTEM SYMBOLS

SACP — SECURITY ALARM CONTROL PANEL AND POWER SUPPLY, COMPLETE - SEE SPECIFICATIONS.

H(WS) — WALL MOUNTED WIRELESS RECEIVER COMPLETE WITH FLUSH 1-GANG DP J-BOX AND 1-GANG RING WITH 3/4"C AND CONDUCTORS TO SACP. - SEE SPECIFICATIONS.

H(SK) — SECURITY ALARM KEY PAD, WITH FLUSH 1-GANG DP J-BOX AND 1-GANG RING WITH 3/4" C. AND CONDUCTORS TO SACP UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS.

(MS) — WIRELESS SECURITY ALARM DUAL MOTION SENSOR, WALL OR CEILING (360-DEGREE) MOUNTED PER PLAN DRAWINGS. SEE SPECIFICATIONS. ARROW INDICATES DIRECTION OF AIM.

(DC) — WIRELESS SECURITY ALARM RECESSED DOOR CONTACTS - SEE SPECIFICATIONS.

H(HA) — WALL MOUNTED LOCAL ALARM HORN WITH FLUSH 1-GANG DP J-BOX AND 1-GANG RING WITH 3/4"C AND CONDUCTORS TO SACP- SEE SPECIFICATIONS.

— S — SECURITY ALARM SYSTEM 3/4" CONDUIT WITH CONDUCTORS PER SECURITY ALARM RISER DIAGRAM AND / OR SPECIFICATIONS.

ANNOTATIONS

A — PANEL CALLOUT, "A" INDICATES PANELBOARD OR EQUIPMENT DESIGNATION.

AC / 2 — MECHANICAL EQUIPMENT CALLOUT, "AC" INDICATES UNIT TYPE AND "2" INDICATES UNIT NUMBER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND ELECTRICAL REQUIREMENTS.

3 / E-1 — DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.

2 — PLAN NOTE REFERENCE, REFER TO NOTES ON SHEET, OR AS DIRECTED.

4 — REVISION REFERENCE.

WYE CONFIGURATION — DELTA CONFIGURATION — GROUND

TELEPHONE/DATA SYMBOLS

TEL — FLUSH TELEPHONE OUTLET BOX, WALL MOUNTED 4S/DP BOX AND 1-GANG RING WITH 3/4"C STUB TO ACCESSIBLE CEILING AND A 1" C. DOWN TO CRAWL SPACE BELOW UNLESS OTHERWISE NOTED AND PROVIDE BUSHINGS. PROVIDE ONE (1) CAT-6 UTP 4-PAIR CABLE FROM OUTLET TO TELEPHONE COMPANY DEMARCATION POINT ON EXTERIOR OF BUILDING. EXTEND TWO EXISTING DIAL TONE LINES FROM EXTERIOR DEMARCATION EQUIPMENT TO THIS OUTLET FOR OWNER'S 2-LINE TELEPHONE. REFER TO FACEPLATE DETAILS FOR MORE INFORMATION.

DATA/WAP OUTLET BOX, WALL MOUNTED, FLUSH 4S/DP BOX WITH 1-GANG RING, STUB TWO (2) 3/4" C. UP TO ACCESSIBLE CEILING. REFER TO FACEPLATE DETAILS FOR MORE INFORMATION. TERMINATE ALL WAP CABLES AT THIS LOCATION. REFER TO FACEPLATE DETAILS FOR MORE INFORMATION.

(WAP) — WIRELESS ACCESS POINT DATA OUTLET, FLUSH 1-GANG DP BOX WITH 3/4" C. (UON) AND ONE (1) CAT-6 UTP 4-PAIR CABLE TO DATA/WAP OUTLET IN OFFICE, OR AS SHOWN ON THE FLOOR PLANS. WHEN INSTALLED AT ACCESSIBLE CEILING TILE LOCATIONS, PROVIDE WAP OUTLET 6-12 INCHES ABOVE ACCESSIBLE CEILING TILE AND MOUNT TO THREADED ROD ATTACHED TO STRUCTURE ABOVE. REFER TO FACEPLATE DETAILS FOR ADDITIONAL INFORMATION. WAP ELECTRONICS AND ANTENNA ARE OFOI.

—T1— CONCEALED TELEPHONE/DATA CONDUIT RUN, 1-INCH CONDUIT (MIN). SEE TABLE FOR CONDUIT SIZE VARIATIONS.
T2 = 1-1/4" C. T3 = 1-1/2" C. T4 = 2" C.

FLUSH MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.

SURFACE MOUNTED, LOCKABLE TERMINAL CABINET WITH TERMINAL STRIPS AS REQUIRED.

(R) — EXISTING WIRELESS RECEIVER WITH CONDUCTORS. TO BE REMOVED AND PROTECTED DURING DEMOLITION PHASE, AND REINSTALLED IN CONSTRUCTION PHASE. CONTRACTOR SHALL RECONNECT DEVICE CABLING OR PROVIDE NEW CABLING AS MAY BE REQUIRED TO REESTABLISH CONNECTIVITY AND FUNCTIONALITY.

LIGHTING SYMBOLS

SITE LIGHTING FIXTURE SYMBOLS DEPICTED WITH CAPITAL LETTER(S) ADJACENT TO RESPECTIVE SYMBOL(S) INDICATE(S) LIGHT FIXTURE MOUNTING BASE DETAIL(S). SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE SYMBOL INFORMATION.

1a — LIGHTING FIXTURE CALL OUT, NUMBER(S) AND/OR UPPER CASE LETTER(S) (i.e. "1") INDICATES FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE). LOWER CASE LETTER (i.e. "a") ADJACENT TO FIXTURE TYPE INDICATES BALLAST OPTION (SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES).

J — INDICATES FINAL CONNECTION TO A LIGHTING FIXTURE, NUMBER OF CONDUCTORS AS REQUIRED.

LIGHTING CONTROL SYMBOLS

SEE THE DISTRIBUTED LIGHTING CONTROL (DLCS) SPECIFICATIONS AND SEQUENCE OF OPERATIONS (SOO) FOR MORE INFORMATION.

— · — · — · — · — LOW VOLTAGE WIRING INTERCONNECTING DLCS COMPONENTS AS REQUIRED. SEE DLCS SPECIFICATIONS FOR MORE INFORMATION.

H(D) — WALL MOUNTED DIMMER. SEE SINGE POLE SWITCH SYMBOL FOR RELATED SUBSCRIPTS. QUANTITY OF ADJACENT LOWER CASE LETTERS INDICATES QUANTITY OF DIMMERS REQUIRED. PROVIDE DIMMER TYPE TO MATCH INDICATED BALLAST TYPE AND CONTROL REQUIREMENTS.

H(O)y — WALL MOUNTED STAND ALONE OCCUPANCY SENSOR.

H(O)y H — WALL MOUNTED SYSTEM-BASED OCCUPANCY SENSOR.

(X)y H,AV,DM,P — 1-WAY DIRECTIONAL CEILING MOUNTED, SYSTEM-BASED OCCUPANCY SENSOR.

(XX)y H,AV,DM,P — 2-WAY DIRECTIONAL CEILING MOUNTED, SYSTEM-BASED OCCUPANCY SENSOR.

H(K)y K,V — LOW VOLTAGE MOMENTARY SWITCHES, WALL MOUNTED, FOR MANUAL ON/OFF SWITCHING, DIMMING, AND OVERRIDE CONTROL OF LIGHTING.

(X)y+ — AUTOMATIC SWITCHING/STEP-DIMMING DAYLIGHTING CONTROLLER USED TO SWITCH OFF LIGHTS WHEN SUFFICIENT NATURAL LIGHT IS PRESENT. REFER TO THE DLCS SOO FOR TARGET ILLUMINATION VALUE.

(XX)y+ — AUTOMATIC CONTINUOUS DIMMING DAYLIGHTING CONTROLLER USED TO DIM LIGHTS WHEN SUFFICIENT NATURAL LIGHT IS PRESENT. REFER TO THE DLCS SOO FOR TARGET ILLUMINATION VALUE.

LIGHTING CONTROL SYMBOL SUPERSCRIPT & SUBSCRIPT KEY:

1. "y" INDICATES THAT SWITCH LEG "y" TO BE CONFIGURED PER THE SOO. ADJACENT LOWER CASE LETTERS INDICATES QUANTITY OF SWITCHLEGS TO BE CONTROLLED. EXACT CONTROL FUNCTION IS DETERMINED BY THE BALLAST/DRIVER/FIXTURE TYPE.
2. ADJACENT UPPER CASE LETTER(S) INDICATE THE FOLLOWING:
   AV INDICATES CONNECTION TO A/V CONTROL SYSTEM.
   DM INDICATES DUAL MODE CONTROL AT CORRIDORS, STAIRWELLS AND WAREHOUSE AISLEWAYS
   H INDICATES CONNECTION TO HVAC SYSTEM CONTROLS VIA CONTROLLED DRY-CONTACT CLOSURE.
   K INDICATES LOCKING SWITCH FOR THE SUBSEQUENT LOWER CASE LETTER.
   P INDICATES CONNECTION TO MOVEABLE PARTITION INTERFACE, SENSOR AND STATUS INDICATOR.
   V INDICATES VANDAL RESISTANT SWITCH.
3. ADJACENT LOWER CASE LETTER(S) INDICATE SWITCH LEG(S) CONTROLLED EXCEPT WHERE "DM" INDICATES DUAL MODE CONTROL SWITCH.
4. ADJACENT "+, ++ AND "" INDICATES PORTION OF SWITCHLEG CONTROLLED BY SENSOR WHERE "+" INDICATES PRIMARY SIDELIT DAYLIT ZONE, "++" INDICATES SECONDARY SIDELIT DAYLIT ZONE, AND "" INDICATES SKYLIT DAYLIT ZONE.

MISCELLANEOUS SYSTEM SYMBOLS

ICP — INVERTER CONTROL PANEL - SEE INVERTER SPECIFICATIONS.

IAP — INVERTER ANNUNCIATOR PANEL - SEE INVERTER SPECIFICATIONS.

GAP — GENERATOR ANNUNCIATOR PANEL - SEE GENERATOR SYSTEM SPECIFICATIONS FOR MORE INFORMATION.

IDCS — INTEGRATED DIMMING CONTROL STATION (IDCS) PANEL - WALL MOUNTED. SEE IDCS SYSTEM SPECIFICATIONS FOR MORE INFORMATION.

DPCS — DIMMING PANEL CONTROL STATION (DPCS) PANEL - WALL MOUNTED. SEE DPCS SYSTEM SPECIFICATIONS FOR MORE INFORMATION.

H(L) — LIGHTING CONTROL SYSTEM LOCAL SWITCH - WALL MOUNTED. SEE LIGHTING CONTROL SYSTEM SPECIFICATIONS FOR MORE INFORMATION.

H(O) — LIGHTING CONTROL SYSTEM OVERRIDE SWITCH - WALL MOUNTED. SEE LIGHTING CONTROL SYSTEM SPECIFICATIONS FOR MORE INFORMATION.

H(M) — LIGHTING CONTROL SYSTEM MASTER SWITCH - WALL MOUNTED. SEE LIGHTING CONTROL SYSTEM SPECIFICATIONS FOR MORE INFORMATION.

H(R) — IDCS/DPCS SYSTEM REMOTE STATION SWITCH - WALL MOUNTED. SEE IDCS SYSTEM AND/OR DPCS SYSTEM SPECIFICATIONS FOR MORE INFORMATION.

H(P) — IDCS/DPCS SYSTEM PARTITION STATION SWITCH - WALL MOUNTED. SEE IDCS SYSTEM AND/OR DPCS SYSTEM SPECIFICATIONS FOR MORE INFORMATION.

BRANCH CIRCUIT SYMBOLS

A-1,3,5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. HASH MARKS INDICATE NUMBER OF CONDUCTORS IN CONDUIT RUN, #12 AWG MINIMUM UNLESS OTHERWISE NOTED.

A-1&3&5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS WITH SEPARATE NEUTRALS. "&" INDICATES SEPARATE NEUTRALS.

A-1+3+5 — HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBERS INDICATE CIRCUITS. "+" INDICATES SEPARATE #10 NEUTRAL THROUGHOUT BRANCH CIRCUIT. HASH MARK "J" INDICATES AN ISOLATED GROUND CONDUCTOR.

CONCEALED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM.

CONDUIT OR BRANCH CIRCUIT CONCEALED BELOW GRADE, 3/4" CONDUIT MINIMUM WITH (2) 12 AWG CONDUCTORS MINIMUM AND A CODE SIZED EQUIPMENT GROUND.

SURFACE-MOUNTED CONDUIT OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED. 1/2" CONDUIT MINIMUM, (2) #12 AWG CONDUCTORS MINIMUM.

TANDEM WIRING CONNECTION.

CONDUIT STUB OUT, CAP, MARK AND RECORD ON AS-BUILT DRAWINGS

CONDUIT CONTINUATION.

FLEXIBLE CONNECTION AS REQUIRED. NUMBER OF CONDUCTORS AS REQUIRED. VERIFY CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION DOWN WALL TO FLOOR BELOW

CONDUIT/ BRANCH CIRCUIT/FEEDER CONTINUATION UP WALL TO FLOOR ABOVE

FLOOR BOX / SPECIALTY WALL BOX / PEDESTAL BOX SYMBOLS

F — ON-GRADE FLOOR BOX. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX SCHEDULE, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

P — ABOVE GRADE POKE-THRU DEVICE. PROVIDE DEVICES PER PLAN. SEE FLOOR BOX SCHEDULE, DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

H,V,T — RECESSED, ADJUSTABLE DEPTH, FLAT PANEL TV/DISPLAY WALL BOX WITH FLUSH GROMMETED COVER PANEL (CHIEF #PAC525F) AND MINIMUM OF (1) 1-1/4"C.O. FROM TOP-MOUNTED L.V. CONDUIT ENTRY BOX TO ACCESSIBLE CEILING. SEE PLANS FOR ANY ADDITIONAL CONDUIT REQUIREMENTS. PROVIDE ADDITIONAL L.V. AND LINE VOLTAGE CONDUIT ENTRY BOXES AS REQUIRED TO ACCOMPLISH WALL BOX CONFIGURATION DEPICTED ON PLANS. FLUSH GROMMETED COVER SHALL BE WHITE, BLACK OR CUSTOM COLOR PER ARCHITECT. WHEN FIELD CONDITIONS PROHIBIT INSTALLATION OF THIS DEVICE (SUCH AS WALL STUD/CAVITY DEPTH OF LESS THAN 2.5" ETC), CONFIRM VIA WRITTEN RFI THE INSTALLATION OF A TRADITIONAL POWER AND DATA RECEPTACLE INSTALLATION ALONG SIDE CCTV/AV JUNCTION BOX CONSISTING OF 2-GANG DEEP JUNCTION BOX/2-GANG RING WITH 1-1/4"C.O. TO ACCESSIBLE CEILING IN ADDITION TO ANY OTHER CONDUIT REQUIREMENTS DEPICTED ON PLANS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHT.

SINGLE OR DUAL SERVICE RECESSED EXTERIOR WALL BOX - TYPE "WP-A". PROVIDE DEVICES PER PLAN. EACH LV OR UNUSED COMPARTMENT SHALL BE EQUIPPED WITH A 1"C.O. TO THE NEAREST ACCESSIBLE CEILING SPACE U.O.N. SEE EXTERIOR DETAILS AND SPECIFICATIONS FOR MORE INFORMATION.

SINGLE OR DUAL SERVICE EXTERIOR PEDESTAL - TYPE "WP-C". PROVIDE DEVICES PER PLAN. SEE EXTERIOR DETAILS AND SPECIFICATIONS FOR MORE INFORMATION. ARROW DENOTES DEVICE DOOR LOCATION.

POWER SYMBOLS

ALL RECEPTACLE OUTLETS SHOWN WITH A DIAGONAL SLASH SHALL BE CONTROLLED BY OCCUPANCY SENSOR OR LIGHTING CONTROL PANEL. SEE DISTRIBUTED LIGHTING CONTROLS FOR ADDITIONAL REQUIREMENTS. WHERE DOUBLE DUPLEX RECEPTACLE OUTLETS ARE INDICATED AS CONTROLLED, ONLY A SINGLE DUPLEX RECEPTACLE OUTLET (NON-IG, NON-GCFI TYPE) SHALL BE CONTROLLED. WITHIN ANY CONTROLLED DUPLEX RECEPTACLE OUTLET, ONLY ONE RECEPTACLE SHALL BE CONTROLLED. NOTE THAT FOR FLOOR BOXES OR POKE-THRU DEVICES, THE ASSOCIATED CONTROL RELAY MAY NEED TO BE LOCATED WITHIN THE ELECTRICAL ROOM WHERE THE CONTROLLED CIRCUIT ORIGINATES.

(W)a — OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY. WHERE LETTER DESIGNATION "a" REPRESENTS OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROL ZONE. SEE THE DISTRIBUTED LIGHTING CONTROL SPECIFICATION FOR MORE INFORMATION.

DUPLEX RECEPTACLE, WALL MOUNTED.

DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED.

DUPLEX, GFCI RECEPTACLE, WALL MOUNTED. WP INDICATES WEATHERPROOF, A, B OR C INDICATES THE TYPE OF COVER, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.

DOUBLE DUPLEX, WALL MOUNTED, WITH (1) GFCI RECEPTACLE AND (1) DUPLEX RECEPTACLE CONNECTED ON LOAD SIDE OF GFCI. WP INDICATES WEATHERPROOF, A, B OR C INDICATES THE TYPE OF COVER, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.

DUPLEX RECEPTACLE, ONE HALF SWITCHED, WALL MOUNTED.

DUPLEX, ISOLATED GROUND RECEPTACLE, WALL MOUNTED.

1,3 1,3a — COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, WALL MOUNTED.

COMBINATION DOUBLE DUPLEX: TWO ISOLATED GROUND RECEPTACLES, WALL MOUNTED.

SIMPLEX RECEPTACLE, WALL MOUNTED.

SPECIAL RECEPTACLE, WALL MOUNTED. REFER TO PLAN NOTES.

DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

DOUBLE DUPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

DUPLEX RECEPTACLE, ONE HALF SWITCHED, FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

DUPLEX, ISOLATED GROUND RECEPTACLE, FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

1,3 1,3a — COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, MOUNTED FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN FLOOR BOX SYMBOL.

COMBINATION DOUBLE DUPLEX FLUSH IN CEILING: TWO ISOLATED GROUND RECEPTACLES - MOUNT FLUSH IN FLOOR WHEN INDICATED IN FLOOR BOX SYMBOL.

SIMPLEX RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

SPECIAL RECEPTACLE FLUSH IN CEILING - MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.

DUPLEX RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.

DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.

DUPLEX, GFCI RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH. WP INDICATES WEATHERPROOF, A, B OR C INDICATES THE TYPE OF COVER, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.

DOUBLE DUPLEX, WALL MOUNTED 6-INCHES ABOVE COUNTER OR SPLASH, WITH (1) GFCI RECEPTACLE AND (1) DUPLEX RECEPTACLE CONNECTED ON LOAD SIDE OF GFCI. WP INDICATES WEATHERPROOF, A, B OR C INDICATES THE TYPE OF COVER, REFER TO THE GENERAL PRODUCT SPECIFICATIONS.

DUPLEX RECEPTACLE, BOTTOM HALF SWITCHED, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.

DUPLEX, ISOLATED GROUND RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.

1,3 1,3a — COMBINATION DOUBLE DUPLEX: ONE ISOLATED GROUND DUPLEX RECEPTACLE AND ONE DUPLEX RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.

COMBINATION DOUBLE DUPLEX: TWO ISOLATED GROUND DUPLEX RECEPTACLES, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.

SIMPLEX RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH.

SPECIAL RECEPTACLE, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH. REFER TO PLAN NOTES.

(WP-B) — WET LOCATION-LISTED (RAINTITE-IN-USE) RECEPTACLE - SEE ELECTRICAL SPECIFICATION FOR ADDITIONAL INFORMATION.

(WP-D) — DAMP LOCATION-LISTED (NOT-RAINTITE-IN-USE) RECEPTACLE - SEE ELECTRICAL SPECIFICATION FOR ADDITIONAL INFORMATION.

DUPLEX RECEPTACLES WITH TWO 5V, 3.6A USB CHARGING PORTS. PROVIDE COLOR AS REQUIRED IN 15A OR 20A CONFIGURATION AND/OR TAMPER RESISTANT AND/OR HOSPITAL GRADE AS REQUIRED BY PLANS AND THE WIRING DEVICES SECTION OF THE GENERAL ELECTRICAL SPECIFICATIONS. (PASS & SEYMOUR OR EQUAL BY HUBBELL OR LEVITON.)

QUAD RECEPTACLES WITH TWO 5V, 3.6A USB CHARGING PORTS. PROVIDE COLOR AS REQUIRED IN 15A OR 20A CONFIGURATION AND/OR TAMPER RESISTANT AND/OR HOSPITAL GRADE AS REQUIRED BY PLANS AND THE WIRING DEVICES SECTION OF THE GENERAL ELECTRICAL SPECIFICATIONS. (PASS & SEYMOUR OR EQUAL BY HUBBELL OR LEVITON.)

H(J) — JUNCTION BOX, WALL MOUNTED AT +18-INCHES A.F.F. OR AS NOTED. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C. OR CEC, WHERE ADOPTED.

(J) — JUNCTION BOX, MOUNTED IN ACCESSIBLE CEILING FOR APPLICATION DENOTED ON PLAN. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C. OR CEC, WHERE ADOPTED.

H(J) — JUNCTION BOX, WALL MOUNTED AT 6-INCHES ABOVE COUNTER OR SPLASH. 4S/DP MINIMUM OR AS REQUIRED BY N.E.C., OR CEC, WHERE ADOPTED.

(J) — JUNCTION BOX, 4S MINIMUM OR AS REQUIRED BY N.E.C., OR CEC, WHERE ADOPTED. MOUNTED IN ACCESSIBLE CEILING SPACE PER PLAN FOR FLEXIBLE CONNECTION TO PRE-WIRED FURNITURE SYSTEM. MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL. WHEN SHOWN WITH A DIAGONAL SLASH, THE LAST GENERAL RECEPTACLE CIRCUIT ON THE HOME-RUN CALL OUT SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR. COORDINATE CONTROLLED CIRCUIT CONNECTION REQUIREMENTS WITH FURNITURE SYSTEM MANUFACTURER PRIOR TO ROUGH-IN. SEE DISTRIBUTED LIGHTING CONTROLS FOR ADDITIONAL REQUIREMENTS.

H(J) H(J) — JUNCTION BOX, WALL MOUNTED AT +18-INCHES A.F.F., 4S/DP MINIMUM OR AS REQUIRED BY N.E.C., OR CEC, WHERE ADOPTED, FOR FLEXIBLE CONNECTION TO PREWIRED FURNITURE SYSTEM. WHEN SHOWN WITH A DIAGONAL SLASH, THE LAST GENERAL RECEPTACLE CIRCUIT ON THE HOME-RUN CALLOUT SHALL BE CONTROLLED BY THE OCCUPANCY SENSOR. COORDINATE CONTROLLED CIRCUIT CONNECTION REQUIREMENTS WITH FURNITURE SYSTEM MANUFACTURER PRIOR TO ROUGH-IN. SEE DISTRIBUTED LIGHTING CONTROLS FOR ADDITIONAL REQUIREMENTS.

SURFACE MOUNTED MULTI-OUTLET ASSEMBLY. REFER TO GENERAL PRODUCT SPECIFICATIONS. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE INSTALLATION.

H(T) — THERMOSTAT OUTLET BOX, PROVIDE 1/2" C.O. TO RESPECTIVE MECHANICAL UNIT.

EXHAUST FAN, OR MOTOR LOAD. REFER TO MECHANICAL, PLUMBING OR KITCHEN DRAWINGS FOR SPECIFIC LOAD REQUIREMENTS OR AS NOTED.

FLUSH MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.

SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.

DISTRIBUTION SWITCHBOARD. REFER TO SINGLE LINE DIAGRAM.

T — TRANSFORMER, REFER TO SINGLE LINE DIAGRAM.

F — FUSED DISCONNECT SWITCH, HP RATED, OR COMBINATION MOTOR STARTER/DISCONNECT SWITCH WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT AND STARTER SIZES.

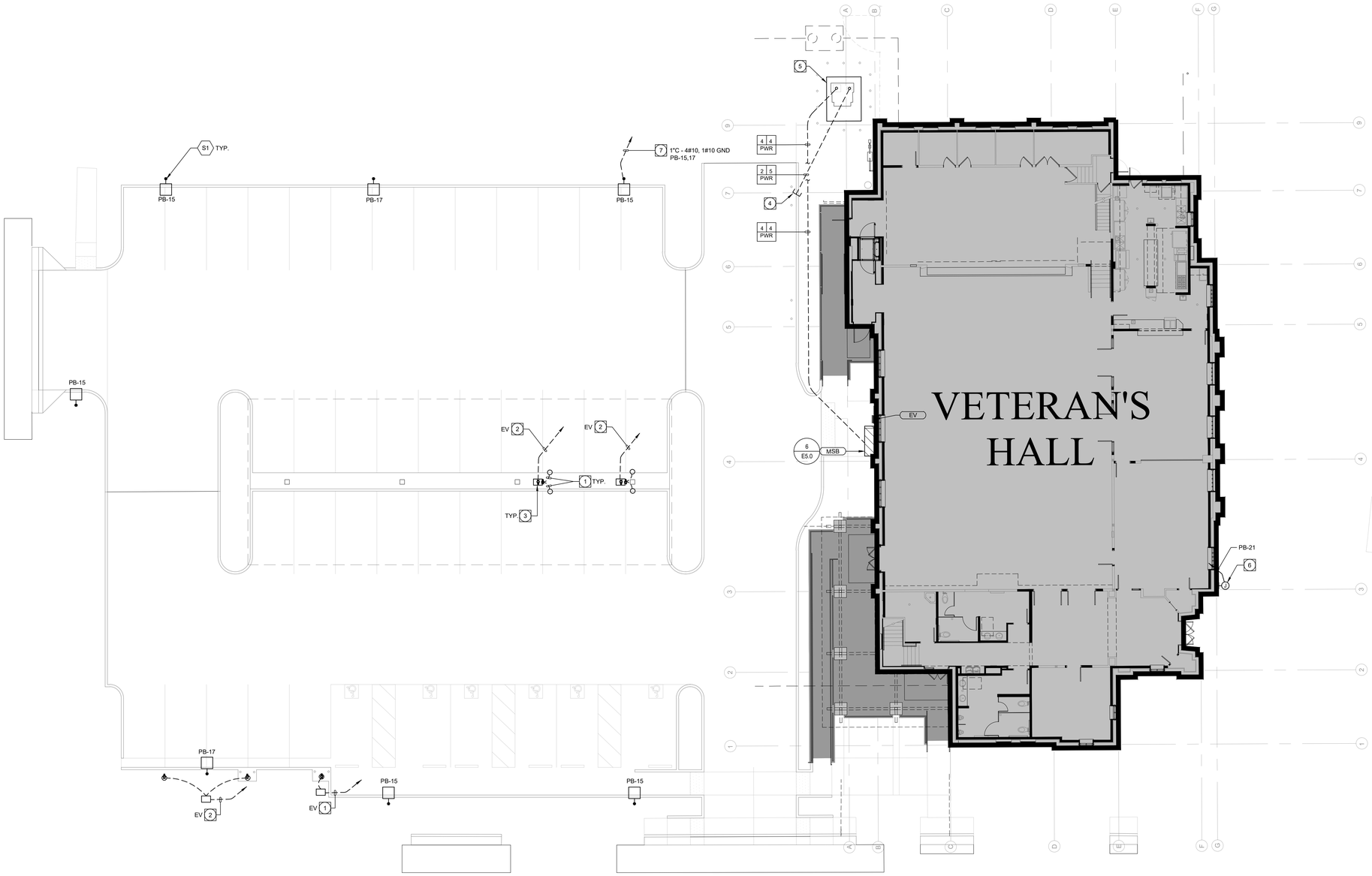
NF — NON-FUSED DISCONNECT SWITCH, HP RATED AND WEATHERPROOF AS REQUIRED. PROVIDE FINAL CONNECTION TO UNIT EQUIPMENT. SEE MOTORIZED EQUIPMENT SCHEDULE FOR DISCONNECT SIZES.

(M) — UTILITY COMPANY METER. PROVIDE "CTs" AND "PTs" AS REQUIRED, REFER TO SINGLE LINE DIAGRAM.

A B C — CIRCUIT BREAKER: "A" REPRESENTS CIRCUIT BREAKER AMPERE RATING, "B" REPRESENTS NUMBER OF POLES AND "C" REPRESENTS MISCELLANEOUS BREAKER FEATURES.
SHUNT= PROVIDE SHUNT TRIP MECHANISM
GFP= GROUND FAULT PROTECTION
CLCB= CURRENT LIMITING CIRCUIT BREAKER
SS= PROVIDE SOLID STATE CIRCUIT BREAKER
LO= PROVIDE PERMANENT LOCK-OPEN (OFF) HARDWARE
LC= PROVIDE PERMANENT LOCK-CLOSED (ON) HARDWARE

A B C D — FUSIBLE SWITCH: "A" REPRESENTS SWITCH/FRAME AMPERE RATING, "B" REPRESENTS THE FUSE AMPERE RATING, "C" INDICATES NUMBER OF POLES AND "D" REPRESENTS MISCELLANEOUS FUSE/SWITCH FEATURES.
SHUNT= PROVIDE SHUNT TRIP MECHANISM
GFP= GROUND FAULT PROTECTION
CLF= CURRENT LIMITING FUSE

GROUND CONNECTION, SIZE AS INDICATED OR AS



SITE ELECTRICAL PLAN

NORTH

SCALE: 1" = 10'-0"

LEGEND OF CONDUIT SYMBOLS

NO. OF CONDUIT REQUIRED — SIZE OF CONDUIT

PWR — PWR = UTILITY COMPANY POWER CONDUIT SYMBOL.

SITE UTILITY PLAN NOTES:

1. UTILITY POINTS OF SERVICE AND WORK/MATERIAL SHOWN ARE BASED UPON PRELIMINARY INFORMATION ONLY BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLES, PULLBOXES, CONCRETE ENCASEMENT OF CONDUITS, TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING AND BACKFILL, AND PAY ALL UTILITY CO. FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
3. LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
4. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
5. UTILITY CONTACTS:

   POWER:
   PG&E
   CHRIS BURLISON
   3600 MEADOWVIEW ROAD, REDDING, CA 96002
   C- (530) 513-3686
   EM: CHRIS.BURLISON@PGE.COM

PLAN NOTES:

1. 1"C.O. PVC TO FUTURE EV DUAL PORT CHARGING STATION. STUB, CAP AND MARK FOR FUTURE AS REQUIRED. VERIFY EXACT MOUNTING LOCATION PRIOR TO ROUGH-IN.
2. 1-1/4"C.O. PVC TO PANEL FUTURE EV DUAL PORT CHARGING STATION BRANCH CIRCUITING.
3. 11"x17" PULL BOX WITH BOLT-ON LID. PROVIDE PULL BOX WITH LOCKABLE COVER. COVER SHALL BE LABELED "ELECTRICAL". MOUNT PULL BOX FLUSH WITH FINISH GRADE, VERIFY EXACT REQUIREMENTS IN FIELD. VERIFY EXACT MOUNTING LOCATION IN FIELD PRIOR TO ROUGH-IN.
4. VERIFY UTILITY CONNECTION POINT WITH SERVING UTILITY.
5. 106"X90" UTILITY TRANSFORMER PAD. PROVIDE PER SERVING UTILITY REQUIREMENTS.
6. RECONNECT AS REQUIRED TO EXISTING BUILDING SIGNAGE.
7. PROVIDE RELAY AS REQUIRED FOR CONTROL OF EXTERIOR LIGHTING BY PHOTOCELL ON / TIMECLOCK OFF. MOUNT RELAY IN SEPARATE BARRIERED COMPARTMENT OF PANELBOARD.

SITE PLAN GENERAL NOTES:

1. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2. CALL UNDERGROUND SERVICE ALERT (USA) AT 1 (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
3. MINIMUM CONDUIT SIZE SHALL BE 3/4" - U.O.N.
4. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.O.N.
5. ALL SITE BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR THAT, AT MINIMUM, MATCHES THE SIZE OF THE ASSOCIATED BRANCH CIRCUIT CONDUCTOR. WHERE MULTIPLE BRANCH CIRCUITS ARE ROUTED/GROUPED TOGETHER, THE EQUIPMENT GROUNDING CONDUCTOR SHALL MATCH THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR IN THE GROUP.
6. ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA #3R).
7. ALL CONDUIT ONLY SHALL BE PROVIDED WITH A NYLON PULL STRING.
8. SEE ARCHITECTURAL/LANDSCAPE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
9. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

SITE UTILITY PLAN CONSTRUCTION NOTES:

THESE NOTES ESTABLISH MINIMUM QUALITY LEVELS AND COORDINATION REQUIREMENTS. RESPECTIVE UTILITY COMPANY PLANS AND REQUIREMENTS TAKE PRECEDENCE OVER THESE NOTES WITH REGARD TO RESPECTIVE UTILITY COMPANY CONDUIT AND UNDERGROUND STRUCTURE SYSTEMS.

1. CALL UNDERGROUND SERVICE ALERT (USA) AT (800) 422-4133 OR APPLICABLE STATE AND LOCAL DIG SAFE OR UNDERGROUND ALERT HOTLINES PRIOR TO CONSTRUCTION START.
2. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN TO ENSURE THAT SUCH ITEMS ARE NOT PLACED IN CRITICAL LANDSCAPE PLANTING/HARDSCAPE AREAS.
3. VAULTS, MAINTENANCE HOLES (MH's), FORMERLY KNOWN AS MANHOLES, AND CONDUITS SHALL MAINTAIN A MINIMUM COVER OF 24" BELOW FINAL SURFACE AT ALL CONDITIONS. INCLUDE ALL COSTS IN BASE BID TO MEET UTILITY COMPANY REQUIREMENTS WHICH MAY REQUIRE GREATER MINIMUM CONDUIT DEPTHS.
4. VAULTS, MH's AND PULLBOXES (PB's) SHALL BE EQUIPPED WITH KNOCKOUT PANELS OR PRE-CAST INDIVIDUAL CONDUIT OPENINGS. CONDUITS SHALL ONLY ENTER AND EXIT ON END/SHORT WALLS. CONDUITS MAY NOT ENTER AND EXIT ON SIDE/LONG WALLS, CEILINGS OR FLOORS UNLESS OTHERWISE NOTED.
5. CUT DUCTS FLUSH WITH INTERIOR VAULT/MH/PB WALL.
6. GROUT AROUND DUCT ENTRANCES ON VAULT/MH/PB WALLS.
7. SLURRY BACKFILL AROUND DUCTS WITHIN 5 FEET OF VAULT/MH/PB TO PREVENT SHEARING.
8. CONDUITS PASSING UNDER THE BUILDING PERIMETER SHALL BE ENCASED IN LIGHTWEIGHT CONCRETE OR WATER-IMPERVIOUS CLAY TO PREVENT WATER INFILTRATION. SEE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. CONDUIT BEND RADIUS FOR BUILDING ENTRANCES AND AT POLES SHALL BE A MINIMUM OF 24" FOR CONDUITS WITH LESS THAN 2" INTERNAL DIAMETER AND A MINIMUM OF 48" FOR CONDUITS WITH MORE THAN 2" INTERNAL DIAMETER.
10. PREFERRED CONDUIT SWEEP RADIUS BETWEEN VAULTS IS 25 FEET. UNDER NO CIRCUMSTANCES SHALL THE CONDUIT SWEEP RADIUS BE LESS THAN 12.5 FEET. MAXIMUM OF 90 DEGREES PER SWEEP AND LIMITED TO NO MORE THAN (2) 90 DEGREE SWEEPS BETWEEN VAULTS.
11. VAULTS/MH's/PB's ARE TO BE EQUIPPED WITH RACKING, GROUNDING LUGS, AND BOLT-DOWN LIDS UNLESS OTHERWISE NOTED.
12. VAULTS AND MH's TO BE EQUIPPED WITH ROUND COVERS, EXTENSION RINGS AS REQUIRED, LADDERS AND (3) SEGMENTS OF 6 FOOT HIGH CABLE RACKING PER EACH LONG WALL.
13. LABEL ALL NON-UTILITY COMMUNICATION VAULT/MH/PB COVERS WITH "COMMUNICATIONS" UNLESS OTHERWISE NOTED ON PLANS.
14. COORDINATE FINAL VAULT/MH/PB OPENING HEIGHT WITH G.C. PRIOR TO ROUGH-IN TO ENSURE FINAL GRADE DOES NOT SLOPE INTO VAULT/MH/PB OPENING.
15. CONTRACTOR TO PROVIDE A MINIMUM OF 8" DEEP COMPACTED 1/2" DIAMETER GRAVEL, UNDER ALL VAULTS, MH's OR PB's TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE ON THE FLOOR AND BE ABLE TO DISSIPATE WATER OUT OF THE VAULT, MH OR PB.
16. ALL VAULTS/MH's/PB's WITHOUT GROUNDING LUGS SHALL HAVE AN 8' x 3/4" COPPER GROUND ROD DRIVEN THRU THE FLOOR TO ALLOW GROUNDING OF ITEMS WITHIN.
17. ALL VAULTS/MH's/PB's SHALL BE PROVIDED WITH TRAFFIC RATED COVERS WHEN LOCATED IN PAVED AREAS UTILIZED FOR VEHICLE TRAFFIC.
18. IF THE WATER OR MOISTURE BARRIER ON OR NEAR THE FOUNDATION OF A BUILDING IS DISTURBED IN ANY MANNER BY EXCAVATION OR OTHER CONSTRUCTION WORK, THE MOISTURE BARRIER MUST BE REPAIRED FOLLOWING THE RECOMMENDATIONS OF THE MANUFACTURER OF THE ORIGINAL BARRIER PRODUCT.
19. THE CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS TO COMPLY WITH ALL REQUIREMENTS FOR CONFINED SPACE ENTRY PER THE OSHA REQUIREMENTS 29 CFR-1910.146, 29 CFR-1910.268, ETC. DURING ANY CONFINED SPACE ENTRY.
20. ANY DUCTS LEAVING A VAULT, MH OR PB ROUTED INTO A FACILITY SHALL BE PLUGGED AT EACH END USING REMOVABLE MECHANICAL PLUGS DESIGNED TO PREVENT WATER AND GAS FROM ENTERING THE FACILITY.
21. SEE ELECTRICAL SPECIFICATIONS AND PLAN DETAILS FOR ADDITIONAL REQUIREMENTS REGARDING UNDERGROUND CONDUITS AND IN-GRADE VAULT/MH/PB/JUNCTION BOXES.

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12/31/2025
ELECTRICAL
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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SITE ELECTRICAL PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1"=10'-0"
Project No.	21-6497

SHEET No.

E1.0

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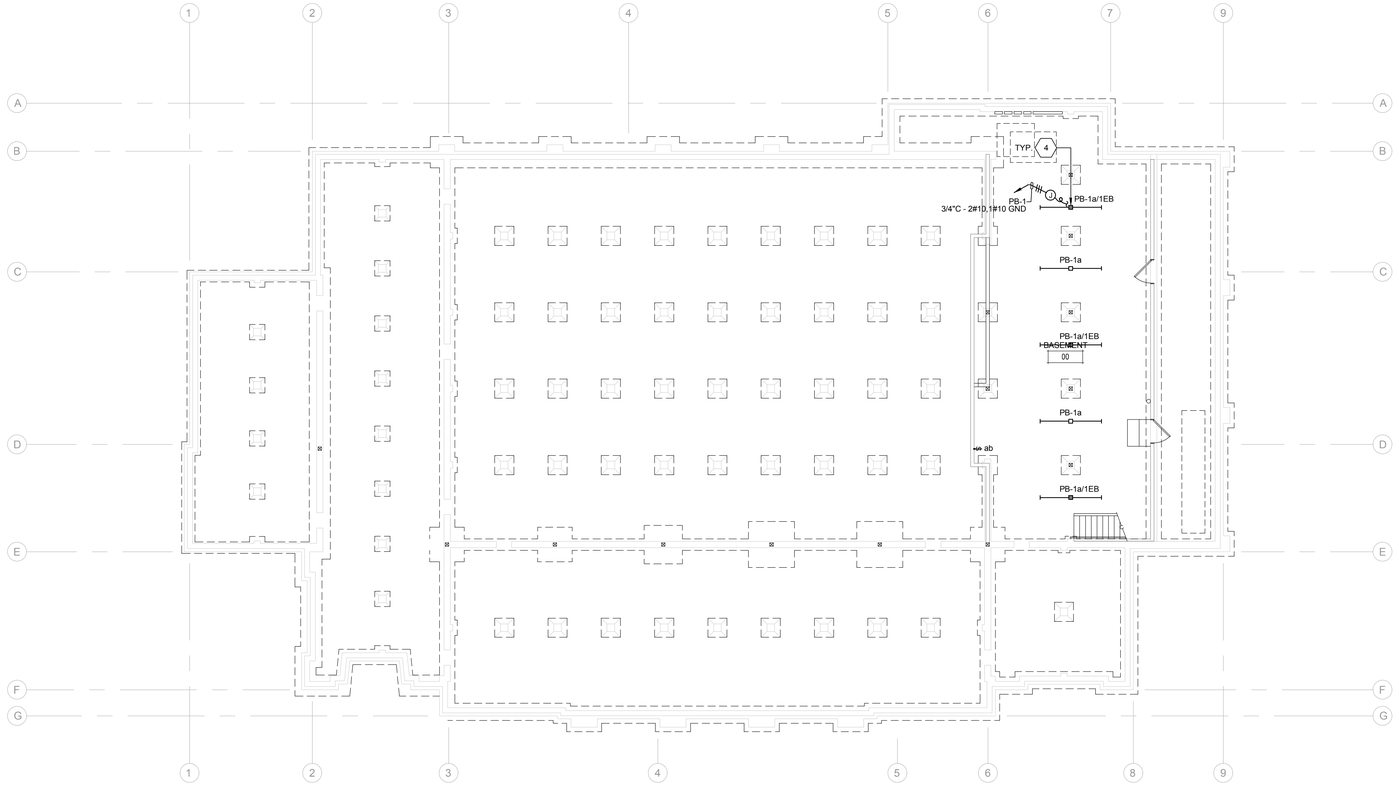

LIGHTING PLAN - BASEMENT

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1 -

LIGHTING PLAN GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND SPECS. PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
3. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL STRUCTURAL SUPPORTS AS REQUIRED BY THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
4. ALL PERIMETER AND COVE LIGHTING SHALL EXTEND THE FULL LENGTH OF THE WALLS OR COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF FIXTURES AS REQUIRED.
5. ALL LINE VOLTAGE DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
6. RECESSED FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL SHALL BE PROVIDED WITH A 5-SIDED, RATED ENCLOSURE SO CONSTRUCTED AS TO ALLOW CODE AND MANUFACTURER-REQUIRED CLEARANCES BETWEEN THE FIXTURE AND THE ENCLOSURE.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
8. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
   a. ALL BRANCH CIRCUITS SHALL BE EMT.
   b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
9. ALL LED REMOTE INDICATORS FOR DUCT DETECTORS AND FIRE/SMOKE DAMPERS REQUIRED BY THE LOCAL AHJ SHALL BE LOCATED IN CEILINGS IN COORDINATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
12. REFER TO GENERAL POWER PLAN NOTES AND COMMUNICATIONS PATHWAYS GENERAL NOTE FOR ADDITIONAL REQUIREMENTS WHEN POWER AND/OR DATA DEVICES ARE SHOWN ON THIS PLAN.
13. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
14. PROVIDE REDUNDANT GROUND PATH IN ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS CONSISTING OF A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR PER NEC, OR CEC WHERE ADOPTED, ART 517.13.

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STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1630 SOLANO ST.
CORNING, CA

SHEET TITLE

LIGHTING PLAN - BASEMENT

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

E2.1

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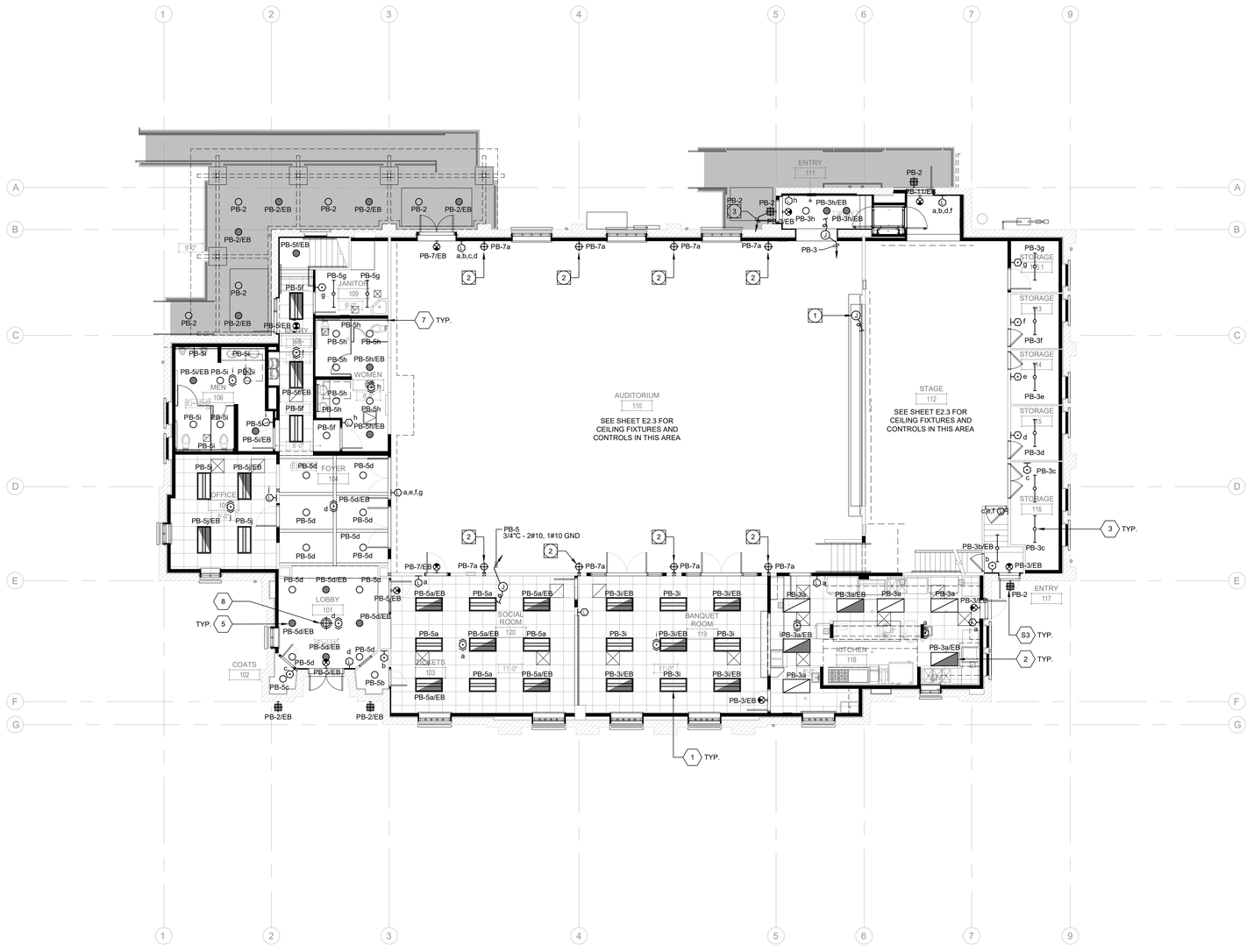

LIGHTING PLAN - LEVEL 1

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. RECONNECT EXISTING STAGE LIGHTING TO PANEL PB. PROVIDE NEW CONDUIT AND WIRING AS REQUIRED TO EXTEND EXISTING CIRCUITING TO NEW PANEL LOCATION.
2. EXISTING DECORATIVE SCONCE TO BE REINSTALLED AT ORIGINAL LOCATION CENTERED BETWEEN WINDOWS. RE-LAMP WITH EQUIVALENT LED BULBS.
3. PROVIDE RELAY AS REQUIRED FOR CONTROL OF EXTERIOR LIGHTING BY PHOTOCELL ON / TIMECLOCK OFF. MOUNT RELAY IN SEPARATE BARRIERED COMPARTMENT OF PANELBOARD.

LIGHTING PLAN GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND SPECS. PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
3. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL STRUCTURAL SUPPORTS AS REQUIRED BY THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
4. ALL PERIMETER AND COVE LIGHTING SHALL EXTEND THE FULL LENGTH OF THE WALLS OR COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF FIXTURES AS REQUIRED.
5. ALL LINE VOLTAGE DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
6. RECESSED FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL SHALL BE PROVIDED WITH A 5-SIDED, RATED ENCLOSURE SO CONSTRUCTED AS TO ALLOW CODE AND MANUFACTURER-REQUIRED CLEARANCES BETWEEN THE FIXTURE AND THE ENCLOSURE.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
8. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
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   b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
9. ALL LED REMOTE INDICATORS FOR DUCT DETECTORS AND FIRE/SMOKE DAMPERS REQUIRED BY THE LOCAL AHJ SHALL BE LOCATED IN CEILINGS IN COORDINATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
12. REFER TO GENERAL POWER PLAN NOTES AND COMMUNICATIONS PATHWAYS GENERAL NOTE FOR ADDITIONAL REQUIREMENTS WHEN POWER AND/OR DATA DEVICES ARE SHOWN ON THIS PLAN.
13. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
14. PROVIDE REDUNDANT GROUND PATH IN ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS CONSISTING OF A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR PER NEC, OR CEC WHERE ADOPTED, ART 517.13.

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Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

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12/31/2025
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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

LIGHTING PLAN - LEVEL 1

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

E2.2

Light Name: LSRC72D31
Plot Date: October 13, 2025 - 8:40 am
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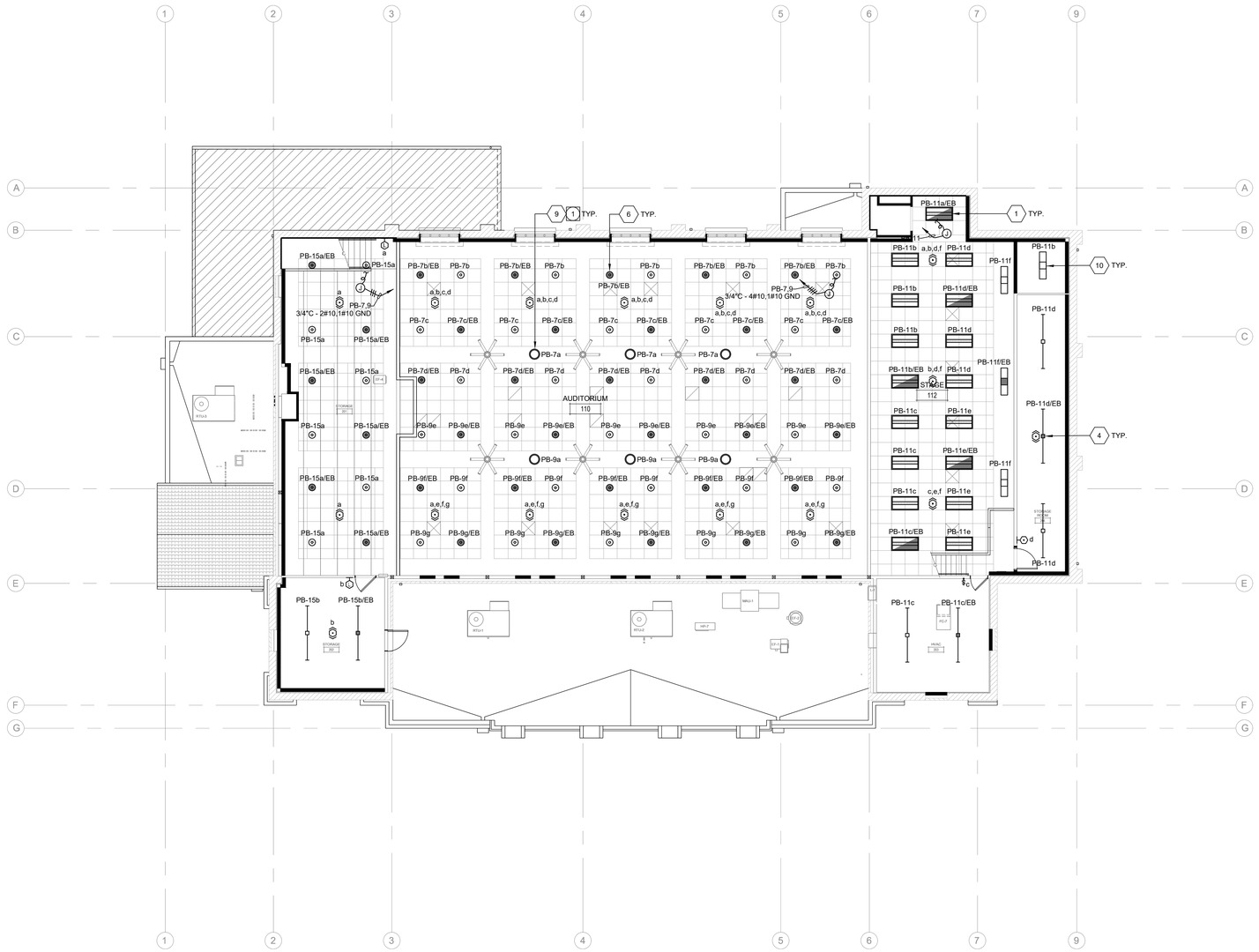

LIGHTING PLAN - LEVEL 2

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1 EXISTING DECORATIVE CHAIN HUNG FIXTURE TO BE REINSTALLED AT NEW LOCATION IN NEW CEILING. RE-LAMP WITH EQUIVALENT LED BULBS.

LIGHTING PLAN GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND SPECS. PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
3. ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL STRUCTURAL SUPPORTS AS REQUIRED BY THE IBC, OR CBC WHERE ADOPTED, IN ADDITION TO ANY LOCAL CODES.
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5. ALL LINE VOLTAGE DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
6. RECESSED FIXTURES LOCATED IN A FIRE-RATED CEILING OR WALL SHALL BE PROVIDED WITH A 5-SIDED, RATED ENCLOSURE SO CONSTRUCTED AS TO ALLOW CODE AND MANUFACTURER-REQUIRED CLEARANCES BETWEEN THE FIXTURE AND THE ENCLOSURE.
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   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
9. ALL LED REMOTE INDICATORS FOR DUCT DETECTORS AND FIRE/SMOKE DAMPERS REQUIRED BY THE LOCAL AHJ SHALL BE LOCATED IN CEILINGS IN COORDINATION WITH ARCHITECT PRIOR TO ANY ROUGH-IN.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
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14. PROVIDE REDUNDANT GROUND PATH IN ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS CONSISTING OF A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR PER NEC, OR CEC WHERE ADOPTED, ART 517.13.

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Project Leader - Jerry Leonhardt
Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

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RAYMOND P. SHAFFER
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

LIGHTING PLAN - LEVEL 2

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

E2.3

Login Name: LSRC70291
Plot Date: October 13, 2025 - 8:40 am
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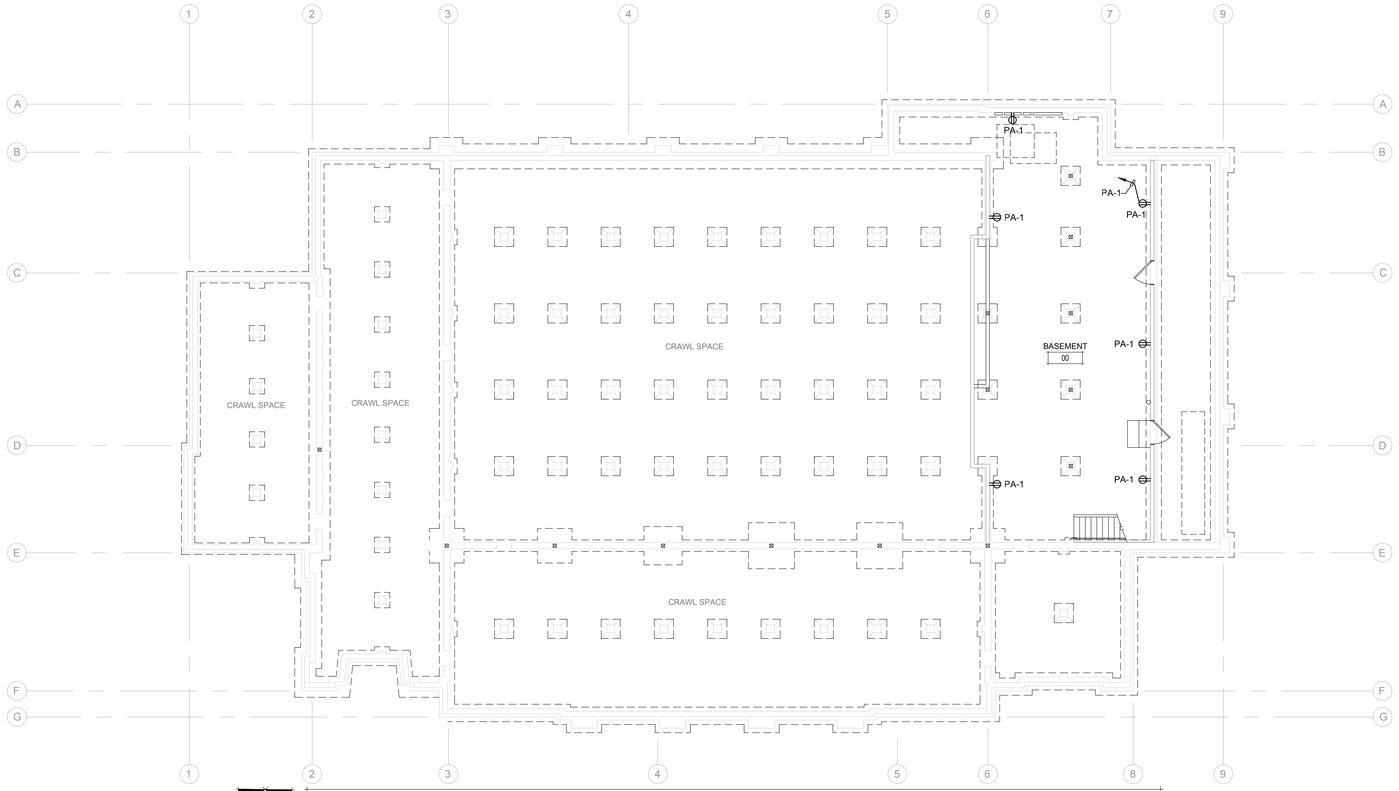

POWER AND COMMUNICATIONS PLAN - BASEMENT

SCALE: 1/8" = 1'-0"

TELECOMMUNICATION PATHWAYS & GENERAL NOTES:

1. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND (b) CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULL BOX. SPLIT CONDUITS IN PLACE OF PULL BOXES ARE UNACCEPTABLE.
2. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
3. CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2-INCHES IN DIAMETER OR LESS, AND (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2-INCHES IN DIAMETER.
4. TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2-INCHES TO 3-INCHES ABOVE THE FLOOR SURFACE.
5. INSTALL BUSHINGS OR BELL ENDS AS REQUIRED ON ALL CONDUITS.
6. FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.
7. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.
8. WHERE OPEN CEILINGS OCCUR CONDUCTORS SHALL BE INSTALLED INSIDE RACEWAY (CONDUIT). PROVIDE ALL RACEWAY, CONDUITS AND CONDUIT SLEEVES WHETHER OR NOT SHOWN ON THE PLAN DRAWINGS. THIS APPLIES TO ALL LOW VOLTAGE AND SIGNAL SYSTEMS CONDUCTORS INCLUDING DATA, TELEPHONE, SECURITY, PUBLIC ADDRESS, CLOCKS, AUDIO VISUAL, CATV, SURVEILLANCE CAMERAS, FIRE ALARM, BMS/EMS, ETCETERA. INCLUDE ALL COSTS IN BASE BID.
9. WHERE INACCESSIBLE CEILINGS OCCUR CONDUCTORS SHALL BE INSTALLED INSIDE CONDUIT RACEWAY. PROVIDE ALL CONDUITS AND CONDUIT SLEEVES WHETHER OR NOT SHOWN ON THE PLAN DRAWINGS. THIS APPLIES TO ALL LOW VOLTAGE AND SIGNAL SYSTEMS CONDUCTORS INCLUDING DATA, TELEPHONE, SECURITY, PUBLIC ADDRESS, CLOCKS, AUDIO VISUAL, CATV, SURVEILLANCE CAMERAS, FIRE ALARM, BMS/EMS, ETCETERA. INCLUDE ALL COSTS IN BASE BID.
10. PROVIDE ANY AND ALL CONDUIT SLEEVES AS MAY BE REQUIRED WHENEVER LOW VOLTAGE CONDUCTORS PASS THROUGH AN INTERIOR OR EXTERIOR WALL, FLOOR, OR ANY STRUCTURAL ASSEMBLY. PROPERLY FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES PER THE NEC AND ELECTRICAL SPECIFICATIONS. INCLUDE ALL COSTS IN BASE BID.
11. PROVIDE SOUND STOP MATERIAL FOR ALL CONDUIT PENETRATIONS IN SOUND RATED WALL ASSEMBLIES.
12. ALL PULL BOXES SHALL BE SIZED AND INSTALLED PER ANSI-TIA-569-C. PULL BOXES FOR INUNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	16"	3"	2"
2"	8"	36"	4"	5"
3"	12"	48"	5"	6"
4"	15"	60"	8"	8"

FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA-569-C TABLE 12. - LATEST PUBLISHED EDITION.

13. CONDUIT(S) SHALL EXIT A PULL BOX ON THE WALL OPPOSITE THE WALL ENTERED.
14. ALL PULL BOXES INSTALLED ON TOP OF ROOFS OR ATTACHED TO CANOPIES SHALL BE RATED NEMA-3R OR NEMA-4. PROVIDE QUANTITY AND SIZE OF PULL BOXES AS REQUIRED TO COMPLY WITH THESE GENERAL PATHWAY NOTES. PAINT BOXES TO MATCH SURROUNDING SURFACES.
15. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDINGS AND CANOPIES SHALL BE GALVANIZED. PAINT ALL CONDUITS TO MATCH SURROUNDING SURFACES.
16. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
17. PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH UNDERGROUND BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.
18. ALL CONDUITS EXPOSED TO VIEW (I.E.: OPEN CEILING SPACES) SHALL BE PAINTED TO MATCH SURROUNDING SURFACES. CONDUITS INSTALLED ABOVE HARD CEILINGS OR INACCESSIBLE CEILINGS ARE EXEMPT FROM PAINTING.
19. ELECTRICAL CONTRACTOR SHALL REFERENCE ALL E-SERIES, T-SERIES AND AV-SERIES SHEETS FOR ADDITIONAL CONDUIT REQUIREMENTS.

PLAN NOTES:

1 -

POWER PLAN GENERAL NOTES:

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24-INCHES MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
5. ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
6. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
   a. ALL BRANCH CIRCUITS SHALL BE EMT.
   b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
7. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
8. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY A GFCI CIRCUIT BREAKER(S) WHEN RECEPTACLES ARE 50A OR LESS, 150V TO GROUND OR LESS AND ARE LOCATED WITHIN 6-FEET OF ANY SINK OR THERAPEUTIC TUB, LAUNDRY AREA, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE, LOCKER ROOM AREA, GARAGE AND BATHROOM SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
9. PROVIDE OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY(S) AS REQUIRED TO SWITCH CONTROLLED RECEPTACLES. CONNECT BRANCH CIRCUITRY AND CONTROL WIRING AS REQUIRED TO ALLOW OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM RELAY TO SWITCH STANDALONE AND/OR SYSTEMS FURNITURE CONTROLLED RECEPTACLES AS INDICATED ON PLANS. PROVIDE ADDITIONAL CONDUIT, WIRING AND PATHWAYS NECESSARY TO CONNECT BRANCH CIRCUITRY AND CONTROL WIRING TO REMOTE RELAYS TO INCLUDE RELAY(S) LOCATED ON ALTERNATE FLOORS, IN ELECTRICAL ROOMS, ETC.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

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12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

POWER & COMMUNICATIONS PLAN - BASEMENT

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

E2.4

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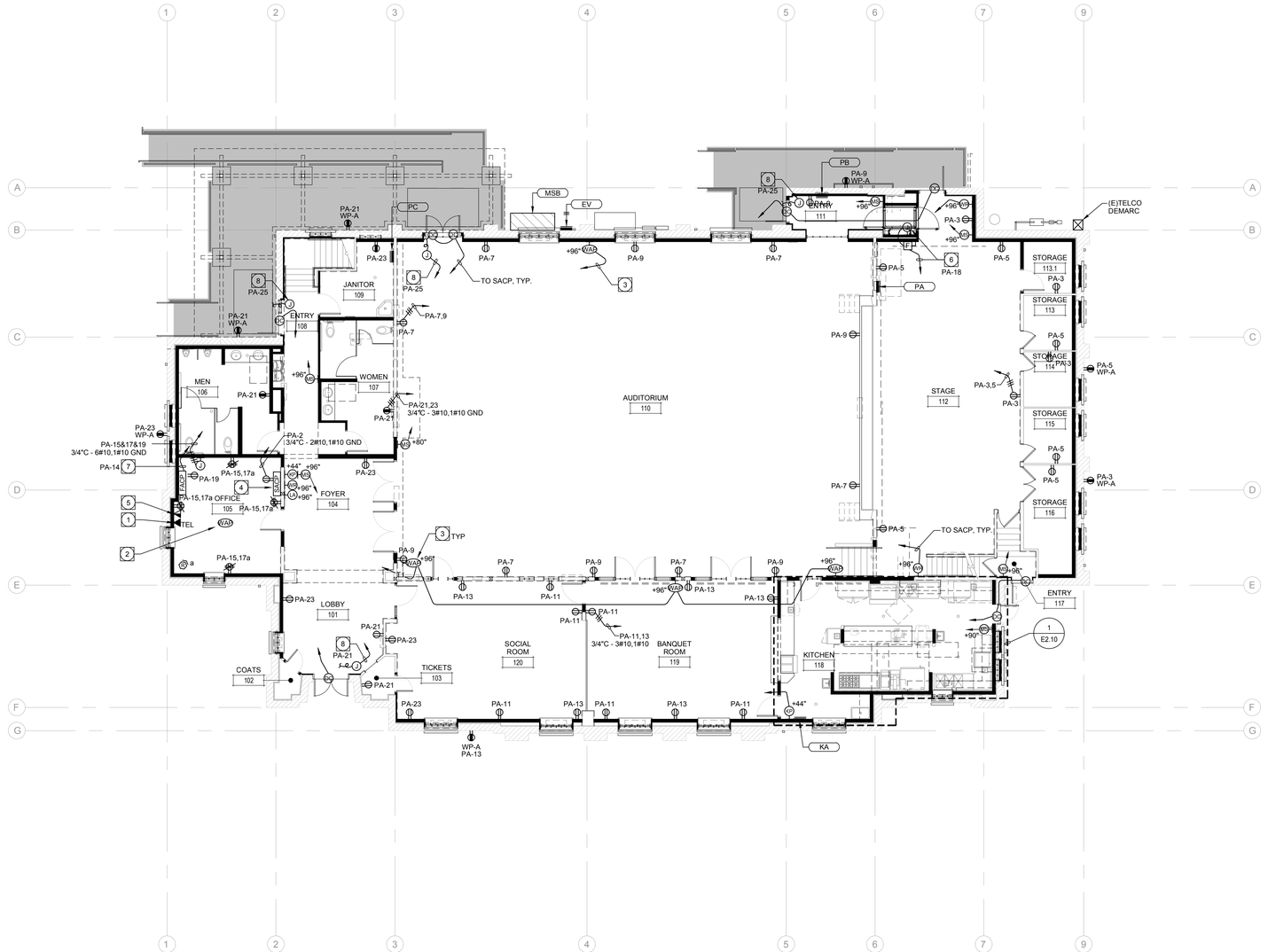

POWER AND COMMUNICATIONS PLAN - LEVEL 1

SCALE: 1/8" = 1'-0"

TELECOMMUNICATION AND SIGNAL SYSTEMS PATHWAYS & GENERAL NOTES:

1. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND (b) CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULL BOX. SPLIT CONDUITS IN PLACE OF PULL BOXES ARE UNACCEPTABLE.
2. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
3. CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2-INCHES IN DIAMETER OR LESS, AND (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2-INCHES IN DIAMETER.
4. TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2-INCHES TO 3-INCHES ABOVE THE FLOOR SURFACE.
5. INSTALL BUSHINGS OR BELL ENDS AS REQUIRED ON ALL CONDUITS.
6. FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.
7. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.
8. WHERE OPEN CEILINGS OCCUR CONDUCTORS SHALL BE INSTALLED INSIDE RACEWAY (CONDUIT). PROVIDE ALL RACEWAY, CONDUITS AND CONDUIT SLEEVES WHETHER OR NOT SHOWN ON THE PLAN DRAWINGS. THIS APPLIES TO ALL LOW VOLTAGE AND SIGNAL SYSTEMS CONDUCTORS INCLUDING DATA, TELEPHONE, SECURITY, PUBLIC ADDRESS, CLOCKS, AUDIO VISUAL, CATV, SURVEILLANCE CAMERAS, FIRE ALARM, BMS/EMS, ETCETERA. INCLUDE ALL COSTS IN BASE BID.
9. WHERE INACCESSIBLE CEILINGS OCCUR CONDUCTORS SHALL BE INSTALLED INSIDE CONDUIT RACEWAY. PROVIDE ALL CONDUITS AND CONDUIT SLEEVES WHETHER OR NOT SHOWN ON THE PLAN DRAWINGS. THIS APPLIES TO ALL LOW VOLTAGE AND SIGNAL SYSTEMS CONDUCTORS INCLUDING DATA, TELEPHONE, SECURITY, PUBLIC ADDRESS, CLOCKS, AUDIO VISUAL, CATV, SURVEILLANCE CAMERAS, FIRE ALARM, BMS/EMS, ETCETERA. INCLUDE ALL COSTS IN BASE BID.
10. PROVIDE ANY AND ALL CONDUIT SLEEVES AS MAY BE REQUIRED WHENEVER LOW VOLTAGE CONDUCTORS PASS THROUGH AN INTERIOR OR EXTERIOR WALL, FLOOR, OR ANY STRUCTURAL ASSEMBLY. PROPERLY FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES PER THE NEC AND ELECTRICAL SPECIFICATIONS. INCLUDE ALL COSTS IN BASE BID.
11. PROVIDE SOUND STOP MATERIAL FOR ALL CONDUIT PENETRATIONS IN SOUND RATED WALL ASSEMBLIES.
12. ALL PULL BOXES SHALL BE SIZED AND INSTALLED PER ANSI-TIA-569-C. PULL BOXES FOR IN/UNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	16"	3"	2"
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FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA-569-C TABLE 12. - LATEST PUBLISHED EDITION.

13. CONDUIT(S) SHALL EXIT A PULL BOX ON THE WALL OPPOSITE THE WALL ENTERED.
14. ALL PULL BOXES INSTALLED ON TOP OF ROOFS OR ATTACHED TO CANOPIES SHALL BE RATED NEMA-3R OR NEMA-4. PROVIDE QUANTITY AND SIZE OF PULL BOXES AS REQUIRED TO COMPLY WITH THESE GENERAL PATHWAY NOTES. PAINT BOXES TO MATCH SURROUNDING SURFACES.
15. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDINGS AND CANOPIES SHALL BE GALVANIZED. PAINT ALL CONDUITS TO MATCH SURROUNDING SURFACES.
16. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
17. PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH UNDERGROUND BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.
18. ALL CONDUITS EXPOSED TO VIEW (I.E.: OPEN CEILING SPACES) SHALL BE PAINTED TO MATCH SURROUNDING SURFACES. CONDUITS INSTALLED ABOVE HARD CEILINGS OR INACCESSIBLE CEILINGS ARE EXEMPT FROM PAINTING.
19. ELECTRICAL CONTRACTOR SHALL REFERENCE ALL E-SERIES, T-SERIES AND AV-SERIES SHEETS FOR ADDITIONAL CONDUIT REQUIREMENTS.

PLAN NOTES:

1. TELEPHONE OUTLET FOR INCOMING TELEPHONE LINES FROM TELCO UTILITY COMPANY'S DEMARCATION PROTECTOR ON EXTERIOR OF BUILDING. REFER TO FACEPLATE DETAILS FOR MORE INFORMATION. COORDINATE WIRING TERMINATION REQUIREMENTS WITH OWNER IN FIELD. FLUSH 4S/DP BOX WITH 1-GANG RING AND 34"C STUB TO ACCESSIBLE CEILING AND 1"C STUB DOWN TO CRAWL SPACE UNDER BUILDING. CABLES IN CRAWLSPACE SHALL BE FASTENED TO FLOOR JOISTS EVERY 3 TO 4 FEET MAX, AND CABLES SHALL NOT SAG DOWN MORE THAN 4 INCHES BETWEEN FASTENERS. METAL STAPLES, AND PLASTIC TIE WRAPS ARE NOT ACCEPTABLE FASTENERS; BRIDLE RINGS AND DRIVE RINGS ARE APPROVED FASTENERS.
2. ABOVE-CEILING DATA OUTLET FOR OWNER FURNISHED OWNER INSTALLED WIRELESS ACCESS POINT ELECTRONICS. ROUTE CABLE TO DATA CABINET IN OFFICE. REFER TO DATA NETWORK SYSTEM DIAGRAM AND FACEPLATE DETAILS FOR MORE INFORMATION.
3. WALL MOUNTED DATA OUTLET FOR OWNER FURNISHED OWNER INSTALLED WIRELESS ACCESS POINT ELECTRONICS. ROUTE CABLE TO ACCESSIBLE CEILING SPACE IN OFFICE ABOVE THE DATA/WAP CONSOLIDATION OUTLET. REFER TO DATA NETWORK SYSTEM DIAGRAM AND FACEPLATE DETAILS FOR MORE INFORMATION.
4. SECURITY ALARM SYSTEM CONTROL PANEL AND POWER SUPPLY COMPLETE PER SPECIFICATIONS. E.C. TO PROVIDE 120V 20A DUPLEX RECEPTACLE WITHIN 36 INCHES OF PANEL. COORDINATE FINAL LOCATION IN FIELD.
5. FLUSH DATA/WAP CONSOLIDATION OUTLET WITH TWO (2) 3/4"C STUBS TO ACCESSIBLE CEILING. FOR TERMINATION OF ALL CABLES FEEDING THE WAP OUTLETS. REFER TO FACEPLATE DETAILS AND DATA SYSTEM DIAGRAM FOR ADDITIONAL INFORMATION.
6. CONNECT TO WHEELCHAIR LIFT AS REQUIRED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, WIRING, DISCONNECTS, ETCETERA. FOR A COMPLETE INSTALLATION.
7. PROVIDE 3/4"C. WITH 2#12, 1#12 GRD. TO 120V DEDICATED CIRCUIT FOR POWER. PROVIDE 20AMP, 1-POLE CIRCUIT BREAKER WITH APPROVED LOCK-ON DEVICE, RED INDICATOR AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT" (NFPA 72, SECTION 10.6.5.2). CONNECT AS REQUIRED. PROVIDE ALL REQUIRED MOUNTING HARDWARE. MATCH A.I.C. RATING OF DEVICES USED.
8. CONNECT TO "AUTOMATIC DOOR" POWER SUPPLY AS REQUIRED. COORDINATE WITH DOOR SUPPLIER PRIOR TO ROUGH-IN.

KITCHEN PLAN GENERAL NOTES:

1. INTERNAL WIRING AND PLUMBING OF FABRICATED FIXTURES SHALL BE THE RESPONSIBILITY OF THE FIXTURE MANUFACTURER, UNLESS OTHERWISE NOTED. FINAL HOOKUP OF EQUIPMENT AND FIXTURES SHALL BE BY THE ELECTRICAL AND/OR PLUMBING CONTRACTORS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE STARTING FABRICATION OF CUSTOM FABRICATED FIXTURES.
3. CONVENIENCE OUTLETS SHALL BE SET HORIZONTALLY.
4. WHERE STUBBING UP OUT OF A FLOOR, CONDUIT SHALL EXTEND A MINIMUM OF 4" ABOVE THE FINISHED FLOOR OR CURB.
5. CONTRACTOR SHALL SUPPLY AND INSTALL STAINLESS STEEL COVER PLATES ON PARTIALLY OR WHOLLY EXPOSED PULL BOXES AND ACCESS BOXES.
6. CONTRACTOR SHALL SUPPLY AND INSTALL LOCKOUT DEVICES ON BREAKERS FOR CLOCKS, MECHANICAL REFRIGERATION SYSTEMS, CONTROL WIRING AND EXHAUST HOOD FIRE PROTECTION SYSTEM CONTROLS.
7. CONTRACTOR SHALL SUPPLY AND INSTALL SWITCHES FOR HEAT LAMPS, EXHAUST HOOD LIGHTS AND MAKE-UP AIR SYSTEMS. VERIFY LOCATIONS WITH ARCHITECT.
8. WHEN ELECTRIC SOLENOID GAS SHUTOFF VALVES ARE SPECIFIED FOR THE EXHAUST HOOD FIRE PROTECTION SYSTEM, THE EXHAUST HOOD FIRE PROTECTION SYSTEM CONTRACTOR SHALL FURNISH AND ELECTRICAL SHALL INSTALL THE DEVICES. REFER TO ARCHITECTURAL KITCHEN DRAWING, SHEET A-3.2.
9. CONTRACTOR SHALL PROVIDE POWER FOR AND CONNECT REFRIGERATION COMPRESSORS AND BLOWER COILS, AND AUTOMATIC DEFROST SYSTEMS SHOWN ON THE REFRIGERATION SCHEDULE. FURNISH AND INSTALL MAGNETIC STARTERS AND THERMO-OVERLOAD PROTECTION DEVICES AS REQUIRED.
10. CONTRACTOR SHALL PACK SEAL AND ALL EXPOSED J-BOXES AND CONDUIT ON WALK-IN COOLERS AND FREEZERS TO PREVENT INTERNAL CONDENSATION.
11. CONTRACTOR SHALL PROVIDE POWER TO AND CONNECT KITCHEN EXHAUST AND MAKE-UP AIR BLOWER MOTORS, WHETHER PROVIDED BY FOOD SERVICE EQUIPMENT AND FIXTURE CONTRACTOR OR HVAC SECTION.
12. CONTRACTOR SHALL PROVIDE CONDUITS AND PULL BOXES FOR REFRIGERATION, BEVERAGE AND SODA LINES.
13. BEFORE INSTALLING J-BOXES OR OTHER FITTINGS ON WALK-IN REFRIGERATOR WALLS OR CEILINGS, VERIFY EXISTENCE OF ADEQUATE SUPPORT AND INSULATION WITH REFRIGERATOR MANUFACTURER. ALL CONDUIT MOUNTED ON INTERIOR OF WALK-INS SHALL BE SPACED 1" OFF WALL.
14. VERIFY MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
15. THE CONTRACTOR SHALL REVIEW ALL OF THE FOOD SERVICE EQUIPMENT PLANS PRIOR TO BID FOR ALL WORK REQUIRED BY THE CONTRACTOR AND SHALL INCLUDE IN THE BID ALL NECESSARY MATERIAL AND LABOR TO CONNECT AND PROVIDE CIRCUITING TO ALL KITCHEN EQUIPMENT. IF ANY DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL ISSUE AN RFI FOR CLARIFICATION PRIOR TO BID.

ALL RECEPTACLES WITHIN KITCHEN OR SERVING AREA SHALL BE GFI-TYPE.

POWER PLAN GENERAL NOTES:

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24-INCHES MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
5. ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
6. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
   a. ALL BRANCH CIRCUITS SHALL BE EMT.
   b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
7. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
8. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY A GFCI CIRCUIT BREAKER(S) WHEN RECEPTACLES ARE 50A OR LESS, 150V TO GROUND OR LESS AND ARE LOCATED WITHIN 6-FEET OF ANY SINK OR THERAPEUTIC TUB, LAUNDRY AREA, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE, LOCKER ROOM AREA, GARAGE AND BATHROOM SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
9. PROVIDE OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY(S) AS REQUIRED TO SWITCH CONTROLLED RECEPTACLES. CONNECT BRANCH CIRCUITRY AND CONTROL WIRING AS REQUIRED TO ALLOW OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM RELAY TO SWITCH STANDALONE AND/OR SYSTEMS FURNITURE CONTROLLED RECEPTACLES AS INDICATED ON PLANS. PROVIDE ADDITIONAL CONDUIT, WIRING AND PATHWAYS NECESSARY TO CONNECT BRANCH CIRCUITRY AND CONTROL WIRING TO REMOTE RELAYS TO INCLUDE RELAY(S) LOCATED ON ALTERNATE FLOORS, IN ELECTRICAL ROOMS, ETC.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

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WSP Job #: B2305166.000

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REGISTERED PROFESSIONAL ENGINEER RAYMOND P. SHAFFER No. E15610 12/31/2025 ELECTRICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

POWER & COMMUNICATIONS PLAN - LEVEL 1

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

E2.5

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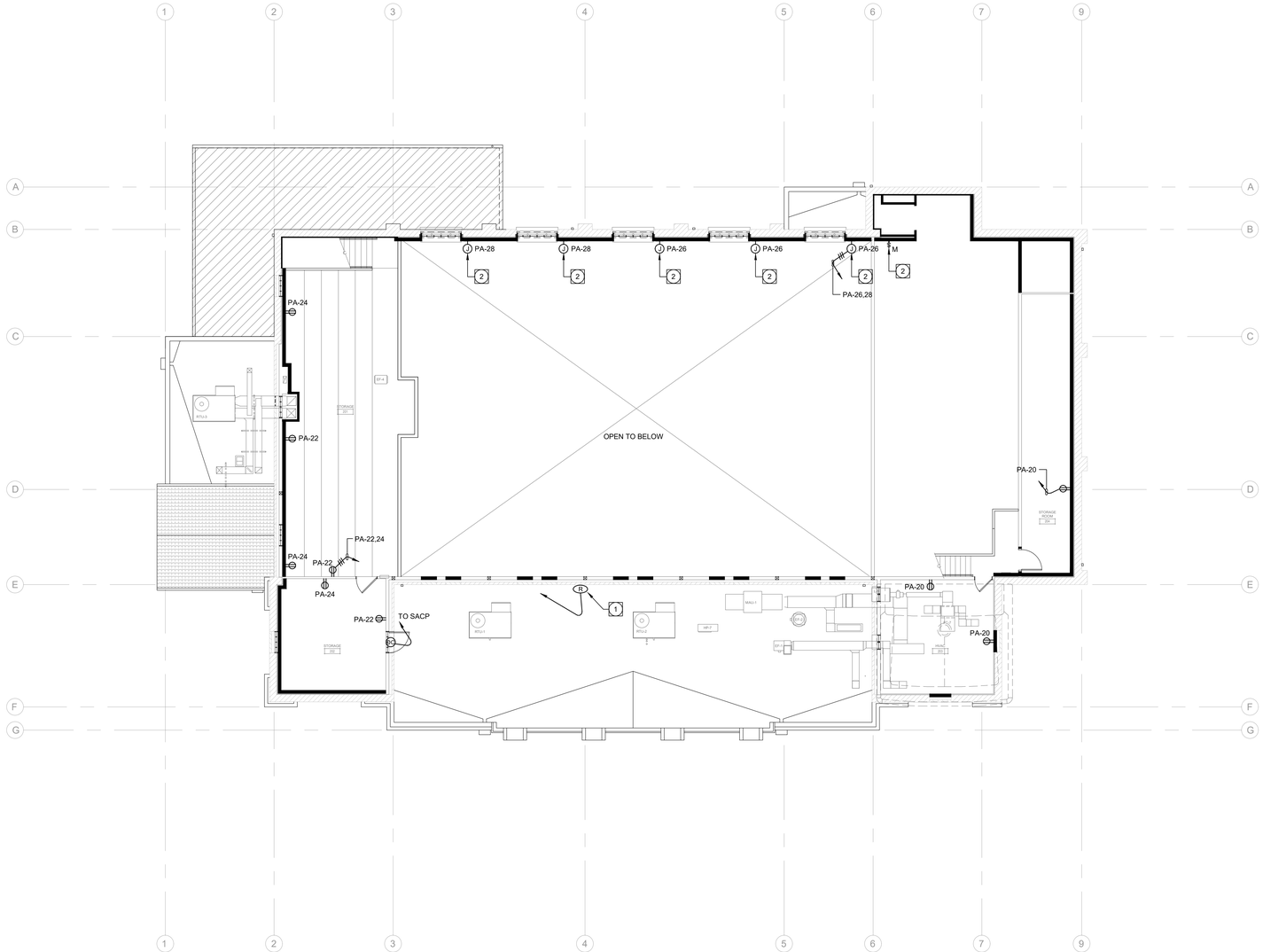

POWER AND COMMUNICATIONS PLAN - LEVEL 2

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. EXISTING WIRELESS RECEIVER WITH CONDUCTORS. CONTRACTOR SHALL CONFIRM EXACT LOCATION IN FIELD. SHOWN HERE FOR REFERENCE. REMOVE AND PROTECTED DURING DEMOLITION PHASE, AND REINSTALL IN CONSTRUCTION PHASE. CONTRACTOR SHALL RECONNECT DEVICE CABLING OR PROVIDE NEW CABLING AS MAY BE REQUIRED TO REESTABLISH CONNECTIVITY AND FUNCTIONALITY.

2. CONNECT TO MOTORIZED SHADES AS REQUIRED. PROVIDE ALL J-BOXES, LOW VOLTAGE AND LINE VOLTAGE CONTROLS, CONDUIT, CONDUCTORS, SIZED AND INSTALLED PER MOTORIZED SHADE MANUFACTURER'S REQUIREMENTS FOR A COMPLETE AND OPERABLE MOTORIZED SHADE SYSTEM. COORDINATE INSTALLATION REQUIREMENTS WITH SHADE INSTALLER PRIOR TO ROUGH-IN. INCLUDE ALL COSTS IN BASE BID. SEE DETAIL 7/E5.0 FOR ADDITIONAL INFORMATION.

POWER PLAN GENERAL NOTES:

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24-INCHES MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
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5. ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
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   a. ALL BRANCH CIRCUITS SHALL BE EMT.
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   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
7. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
8. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY A GFCI CIRCUIT BREAKER(S) WHEN RECEPTACLES ARE 50A OR LESS, 150V TO GROUND OR LESS AND ARE LOCATED WITHIN 6-FEET OF ANY SINK OR THERAPEUTIC TUB, LAUNDRY AREA, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE, LOCKER ROOM AREA, GARAGE AND BATHROOM SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
9. PROVIDE OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY(S) AS REQUIRED TO SWITCH CONTROLLED RECEPTACLES. CONNECT BRANCH CIRCUITRY AND CONTROL WIRING AS REQUIRED TO ALLOW OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM RELAY TO SWITCH STANDALONE AND/OR SYSTEMS FURNITURE CONTROLLED RECEPTACLES AS INDICATED ON PLANS. PROVIDE ADDITIONAL CONDUIT, WIRING AND PATHWAYS NECESSARY TO CONNECT BRANCH CIRCUITRY AND CONTROL WIRING TO REMOTE RELAYS TO INCLUDE RELAY(S) LOCATED ON ALTERNATE FLOORS, IN ELECTRICAL ROOMS, ETC.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
12. PROVIDE REDUNDANT GROUND PATH IN ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS CONSISTING OF A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR PER NEC, OR CEC WHERE ADOPTED, ART 517.13.

COMMUNICATIONS PATHWAYS GENERAL NOTES:

1. CONDUITS SHALL (a) CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.), AND (b) CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULL BOX. SPLIT CONDUITS IN PLACE OF PULL BOXES ARE UNACCEPTABLE.
2. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
3. CONDUIT BEND RADIUS SHALL BE (a) A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2-INCHES IN DIAMETER OR LESS, AND (b) 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2-INCHES IN DIAMETER.
4. TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2-INCHES TO 3-INCHES ABOVE THE FLOOR SURFACE.
5. INSTALL BUSHINGS OR BELL ENDS AS REQUIRED ON ALL CONDUITS.
6. FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.
7. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.
8. ALL PULL BOXES SHALL BE SIZED AND INSTALLED PER ANSI-TIA-569-C. PULL BOXES FOR IN/UNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

CONDUIT SIZE	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL CONDUIT
1"	4"	16"	3"	2"
2"	8"	36"	4"	5"
3"	12"	48"	5"	6"
4"	15"	60"	8"	8"

FOR OTHER CONDUIT SIZES REFER TO ANSI/TIA-569-C TABLE 12. - LATEST PUBLISHED EDITION.

9. CONDUIT(S) SHALL EXIT A PULL BOX ON THE WALL OPPOSITE THE WALL ENTERED.
10. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
11. PROVIDE INTERNAL/EXTERNAL GAS AND WATER TIGHT MECHANICAL SEALING/PLUGGING OF EACH BUILDING ENTRY CONDUIT AS SPECIFIED ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS.

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Project Leader - Jerry Leonhardt
Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RAYMOND W. SHAFFER No. E15610 12/31/2025 ELECTRICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

POWER & COMMUNICATIONS PLAN - LEVEL 2

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

E2.6

Login Name: LBSC720291
Plot Date: October 13, 2025 8:40 am
File Name: P:\2021\B2305166\00 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E2-6.dwg
XREFS: x-CHL-Title Block.rvt x-CHVAC.rvt x-CIVIL.dwg

MOTORIZED EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	EQUIPMENT RATING								DISC. SW. SIZE STARTER SIZE	CIRCUIT DATA CONDUIT - WIRE	SPECIFIC NOTES
				MOTOR		VFD						
		VOLTS	PH.	HP	FLA	FLA	MCA	MOCP	SCCR			
EF 3	EXHAUST FAN -	115	1	-	1.5	-	1.88	15	-	MOTOR RATED SWITCH -	3/4"C. - 2#12, 1#12 GRD. -	-
FC 1	INDOOR FAN COIL -	208	1	-	6.88	-	8.6	15	-	MOTOR RATED SWITCH -	3/4"C. - 2#12, 1#12 GRD. -	-
FC 2	INDOOR FAN COIL -	208	1	-	6.88	-	8.6	15	-	MOTOR RATED SWITCH -	3/4"C. - 2#12, 1#12 GRD. -	-
FC 3	INDOOR FAN COIL -	208	1	-	6.88	-	8.6	15	-	MOTOR RATED SWITCH -	3/4"C. - 2#12, 1#12 GRD. -	-
FC 4	INDOOR FAN COIL -	208	1	-	6.88	-	8.6	15	-	MOTOR RATED SWITCH -	3/4"C. - 2#12, 1#12 GRD. -	-
FC 5	INDOOR FAN COIL -	208	1	-	6.88	-	8.6	15	-	MOTOR RATED SWITCH -	3/4"C. - 2#12, 1#12 GRD. -	-
FC 6	INDOOR FAN COIL -	208	1	-	6.88	-	8.6	15	-	MOTOR RATED SWITCH -	3/4"C. - 2#12, 1#12 GRD. -	-
FC HEAT	FAN COIL OPTIONAL HEATER (TYP.)	208	1	-	39.1	-	48.8	50	-	60AS -	3/4"C. 2#6, 1#10 GRD. -	A
- -	- -	-	-	-	-	-	-	-	-	- -	- -	-
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- -	- -	-	-	-	-	-	-	-	-	- -	- -	-
- -	- -	-	-	-	-	-	-	-	-	- -	- -	-

MOTORIZED EQUIPMENT SCHEDULE SPECIFIC NOTES:

A. FUSED AS RECOMMENDED BY MANUFACTURER.

B. MAGNETIC MOTOR STARTER WITH CONTROL TRANSFORMER, AUXILIARY CONTACTS, INDICATOR LIGHT AND H.O.A. SWITCH. VERIFY CONTROL TRANSFORMER VOLTAGE WITH M.C. PRIOR TO ORDERING MATERIAL.

C. ROUTE THROUGH LINE VOLTAGE CONTROL. SEE MECHANICAL AND/OR PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.

D. VERIFY LOCATION WITH PLUMBING PLANS PRIOR TO ROUGH-IN. CONNECT TO AQUASTAT AND TIME CLOCK AS REQUIRED.

E. REMOTE VFD. PROVIDE EARLY BREAK CONTACTS ON ANY DISCONNECT SWITCHES REQUIRED BY CODE OR SHOWN ON PLANS THAT ARE DOWNSTREAM OF THE REMOTE VFD. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED TO INTERCONNECT THE CONTACT WITH VFD "ENABLE" TERMINALS. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. PROVIDE FEEDER(S) TO CONNECT REMOTE VFD AND MOTOR(S) AS REQUIRED.

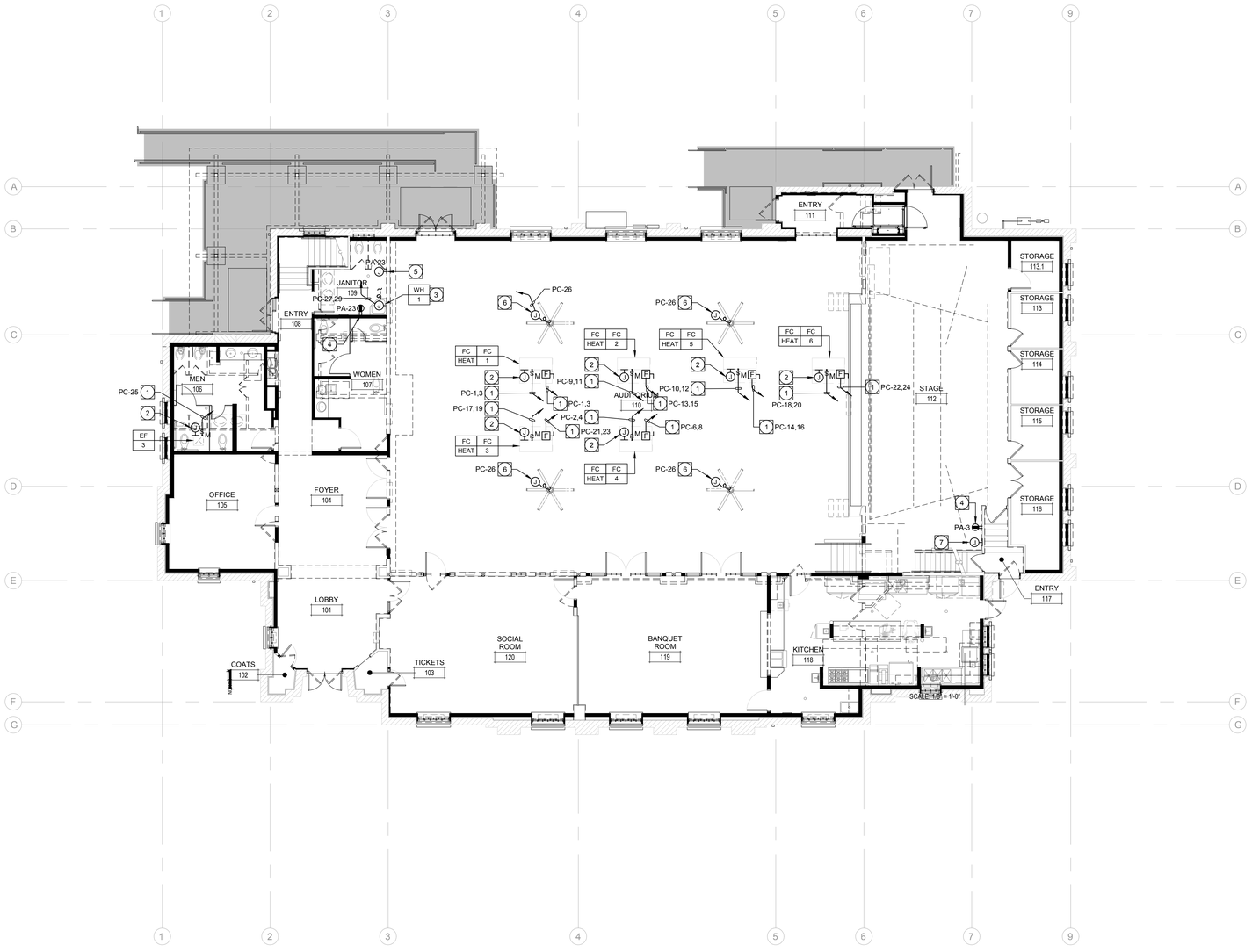
F. INTEGRAL VFD PROVIDED WITH EQUIPMENT. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO VFD AS REQUIRED.

G. INTEGRAL DISCONNECT PROVIDED WITH EQUIPMENT. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO INTEGRAL DISCONNECT AS REQUIRED.

H. INTEGRAL DISCONNECT PROVIDED WITH VFD. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO INTEGRAL DISCONNECT AS REQUIRED.

J. ROUTE 1 PHASE CONDUCTOR OF EACH UPS ROOM/DATA ROOM EXHAUST FAN BRANCH CIRCUIT THROUGH/AROUND A DEDICATED, CURRENT-OPERATED LOAD MONITORING SWITCH THAT DETECTS OVERLOADS AND UNDERLOADS (INCLUDING FAN BELT BREAKAGE) WITHIN +/- 15 PERCENT OF AVERAGE CURRENT DRAW. LOCATE IN BARRIERED PULL BOX - NEMA 3R FOR WET LOCATIONS - AND CONNECT N.O. CONTACT TO FIRE ALARM MONITORING MODULE (SUPERVISORY SIGNAL). LOCATE PULL BOX WITH DEVICES INDOORS WHERE POSSIBLE AND ADJACENT TO THE SERVING ELECTRICAL DISTRIBUTION EQUIPMENT. PROVIDE LABEL "USPA BATTERY EX. FAN MONITOR" PER LABELING SPECIFICATIONS. (NK TECHNOLOGIES #ASM-NOU-OU-FT - www.nktechnologies.com).

K. ROUTE THROUGH LINE VOLTAGE CONTROL FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM. SEE MECHANICAL, FIRE ALARM AND FOOD SERVICE PLANS FOR ADDITIONAL REQUIREMENTS.



MECHANICAL POWER PLAN - LEVEL 1

PLAN NOTES:

1. REFER TO MOTORIZED EQUIPMENT SCHEDULE FOR MOTOR FEEDER/ BRANCH CIRCUIT INFORMATION.
2. PROVIDE 3/4" C.O.(S) TO RESPECTIVE CONTROL DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.
3. CONNECT COMPLETE TO WATER HEATER AS REQUIRED. COORDINATE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 3/4"C. 2#10, 1#10 GRD.
4. CONNECT CIRCULATION PUMP. TIME CLOCK AND/OR AQUASTAT AS REQUIRED. SEE PLUMBING PLANS FOR MORE INFORMATION. COORDINATE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
5. CONNECT AS REQUIRED TO MECHANICAL CONTROLLER. COORDINATE LOCATION WITH MECHANICAL/BAS CONTRACTOR PRIOR TO ROUGH-IN. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
6. CONNECT AS REQUIRED TO CEILING FAN PER MANUFACTURER'S REQUIREMENTS.
7. RECONNECT EXISTING ELECTRIC WATER HEATER TO PANEL PA. PROVIDE NEW CONDUIT AND WIRING AS REQUIRED TO EXTEND EXISTING CIRCUITING TO NEW PANEL LOCATION. VERIFY CIRCUIT CONFIGURATION AND REQUIREMENTS IN FIELD.

MOTORIZED EQUIPMENT SCHEDULE GENERAL NOTES:

1. ALL BRANCH CIRCUIT DATA IS BASED UPON METALLIC CONDUITS. IF THE CONTRACTOR ELECTS TO USE NONMETALLIC CONDUITS, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED PER NEC, OR CEC WHERE ADOPTED, TABLE 250.122 AND THE CONDUIT SIZE SHALL BE INCREASED ACCORDINGLY.
2. ELECTRICAL CONTRACTOR SHALL REFER TO ALL DOCUMENTS RELATED TO THE EQUIPMENT (I.E. SHOP DRAWINGS, CONSTRUCTION DOCUMENTS, ETC.) IN REGARDS TO ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT LISTED IN THE SCHEDULE. ANY MODIFICATION AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
3. ELECTRICAL CONTRACTOR SHALL CHECK THE ROTATION OF ALL THREE PHASE MOTORS AND CORRECT THE ROTATION IF REVERSED.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE FUSES SIZED PER THE EQUIPMENT NAMEPLATE INFORMATION.
5. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, EXTERNALLY OPERATED, QUICK MAKE QUICK BREAK AND SHALL BE FUSIBLE OR NON FUSIBLE AS INDICATED. A MAXIMUM VOLTAGE, CURRENT AND HORSEPOWER SHALL BE CLEARLY MARKED ON SWITCH ENCLOSURE. SWITCHES HAVING DUAL RATINGS (HIGHER RATINGS WHEN USED WITH DUAL ELEMENT FUSES) SHALL HAVE RATINGS INDICATED ON METAL PLATES RIVETED OR OTHERWISE PERMANENTLY ATTACHED TO THE ENCLOSURE. WHEN INDICATED, TOGGLE SWITCHES SHALL BE MOTOR RATED FOR THE APPLICATION.
6. STARTERS SHALL BE FULL VOLTAGE, REDUCED VOLTAGE OR COMBINATION DISCONNECT AND STARTER, WITH CONTROL VOLTAGE AS REQUIRED, AS INDICATED ON THE DOCUMENTS RELATED TO THE EQUIPMENT, SUCH AS SHOP DRAWINGS, CONSTRUCTION DOCUMENTS, ETC. STARTERS SHALL INCLUDE MOTOR OVERLOAD PROTECTION, PHASE LOSS AND PHASE UNBALANCE PROTECTION AS REQUIRED.
7. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE C CONDUCTORS.
8. COMPLETE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NEC (OR CEC WHERE ADOPTED) ARTICLES 430 AND 440.
9. CONTRACTOR TO COORDINATE WITH ALL OTHER PROJECT TRADES AND WITH OWNER/ TENANT FOR TO OBTAIN RESPECTIVE EQUIPMENT SCCR AND PROVIDE APPROPRIATE PROTECTIVE DEVICES TO LIMIT AVAILABLE FAULT CURRENT TO LESS THAN THE EQUIPMENT NAMEPLATE SCCR PER NEC (OR CEC WHERE ADOPTED) 110.10. SEE POWER SYSTEM STUDY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
10. UNLESS OTHERWISE NOTED, MOCP VALUES FOR VFD-EQUIPPED DEVICE ARE SIZED PER NEC (OR CEC WHERE ADOPTED) 430.130(A) 1. CONTRACTOR SHALL COORDINATE WITH ALL OTHER PROJECT TRADES AND WITH OWNER/ TENANT (IF PROVIDING EQUIPMENT ON PROJECT) TO OBTAIN NAMEPLATE VFD-EQUIPPED DEVICE MOCP VALUE FROM MANUFACTURER INSTALLATION INSTRUCTIONS AND PROVIDE APPROPRIATE PROTECTIVE DEVICES TO COMPLY WITH NEC (OR CEC WHERE ADOPTED) 430.130(A).2.

POWER PLAN GENERAL NOTES:

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24-INCHES MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
5. ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
6. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
   a. ALL BRANCH CIRCUITS SHALL BE EMT.
   b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
7. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
8. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY A GFCI CIRCUIT BREAKER(S) WHEN RECEPTACLES ARE 50A OR LESS, 150V TO GROUND OR LESS AND ARE LOCATED WITHIN 6-FEET OF ANY SINK OR THERAPEUTIC TUB, LAUNDRY AREA, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE, LOCKER ROOM AREA, GARAGE AND BATHROOM SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
9. PROVIDE OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY(S) AS REQUIRED TO SWITCH CONTROLLED RECEPTACLES. CONNECT BRANCH CIRCUITRY AND CONTROL WIRING AS REQUIRED TO ALLOW OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM RELAY TO SWITCH STANDALONE AND/OR SYSTEMS FURNITURE CONTROLLED RECEPTACLES AS INDICATED ON PLANS. PROVIDE ADDITIONAL CONDUIT, WIRING AND PATHWAYS NECESSARY TO CONNECT BRANCH CIRCUITRY AND CONTROL WIRING TO REMOTE RELAYS TO INCLUDE RELAY(S) LOCATED ON ALTERNATE FLOORS, IN ELECTRICAL ROOMS, ETC.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
12. PROVIDE REDUNDANT GROUND PATH IN ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS CONSISTING OF A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR PER NEC, OR CEC WHERE ADOPTED, ART 517.13.

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Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RAYMOND W. SHAFFER No. E15610 12/31/2025 ELECTRICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL POWER PLAN - LEVEL 1

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

E2.7

Login Name: LSRC7D201
Plot Date: October 06, 2025 - 2:54 pm
File Name: P:\2023\2305166.000 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E2-7.dwg
Plotted By: AQHI_Title Block 1 - Cert Ht 1_5 (AQHI.dat)

MOTORIZED EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	EQUIPMENT RATING								DISC. SW. SIZE STARTER SIZE	CIRCUIT DATA CONDUIT - WIRE	SPECIFIC NOTES
				MOTOR		VFD						
		VOLTS	PH.	HP	FLA	FLA	MCA	MOCP	SCCR			
EF 1	EXHAUST FAN	208	3	1.5	4.4	-	5.5	15	-	30AS -	3/4"C. - 3#12, 1#12 GRD. -	A
EF 2	EXHAUST FAN	115	1	-	1.5	-	1.88	15	-	MOTOR RATED SWITCH	3/4"C. - 2#12, 1#12 GRD. -	A
EF 4	EXHAUST FAN	115	1	.25	2.85	-	3.56	15	-	MOTOR RATED SWITCH	3/4"C. - 2#12, 1#12 GRD. -	-
FC 7	INDOOR FAN COIL	208	1	-	4.9	-	6.13	15	-	MOTOR RATED SWITCH	3/4"C. - 2#12, 1#12 GRD. -	-
HP 7	HEAT PUMP	208	1	-	13.2	-	16.5	20	-	30AS -	3/4"C. - 2#12, 1#12 GRD. -	A
RTU 1	ROOFTOP UNIT	208	3	-	33.6	-	42	45	-	60AS -	3/4"C. - 3#6, 1#10 GRD. -	-
RTU 2	ROOFTOP UNIT	208	3	-	48	-	60	60	-	60AS -	1"C. - 3#4, 1#8 GRD. -	-
RTU 3	ROOFTOP UNIT	208	3	-	48	-	60	60	-	60AS -	1"C. - 3#4, 1#8 GRD. -	-
MAU 1	MAKEUP AIR UNIT	208	3	-	-	-	3.9	15	-	30AS -	3/4"C. - 3#12, 1#12 GRD. -	A
- -	- -	-	-	-	-	-	-	-	-	- -	- -	-
- -	- -	-	-	-	-	-	-	-	-	- -	- -	-
- -	- -	-	-	-	-	-	-	-	-	- -	- -	-
- -	- -	-	-	-	-	-	-	-	-	- -	- -	-

MOTORIZED EQUIPMENT SCHEDULE SPECIFIC NOTES:

A. FUSED AS RECOMMENDED BY MANUFACTURER.

B. MAGNETIC MOTOR STARTER WITH CONTROL TRANSFORMER, AUXILIARY CONTACTS, INDICATOR LIGHT AND H.O.A. SWITCH. VERIFY CONTROL TRANSFORMER VOLTAGE WITH M.C. PRIOR TO ORDERING MATERIAL.

C. ROUTE THROUGH LINE VOLTAGE CONTROL. SEE MECHANICAL AND/OR PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.

D. VERIFY LOCATION WITH PLUMBING PLANS PRIOR TO ROUGH-IN. CONNECT TO AQUASTAT AND TIME CLOCK AS REQUIRED.

E. REMOTE VFD. PROVIDE EARLY BREAK CONTACTS ON ANY DISCONNECT SWITCHES REQUIRED BY CODE OR SHOWN ON PLANS THAT ARE DOWNSTREAM OF THE REMOTE VFD. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED TO INTERCONNECT THE CONTACT WITH VFD "ENABLE" TERMINALS. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. PROVIDE FEEDER(S) TO CONNECT REMOTE VFD AND MOTOR(S) AS REQUIRED.

F. INTEGRAL VFD PROVIDED WITH EQUIPMENT. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO VFD AS REQUIRED.

G. INTEGRAL DISCONNECT PROVIDED WITH EQUIPMENT. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO INTEGRAL DISCONNECT AS REQUIRED.

H. INTEGRAL DISCONNECT PROVIDED WITH VFD. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO INTEGRAL DISCONNECT AS REQUIRED.

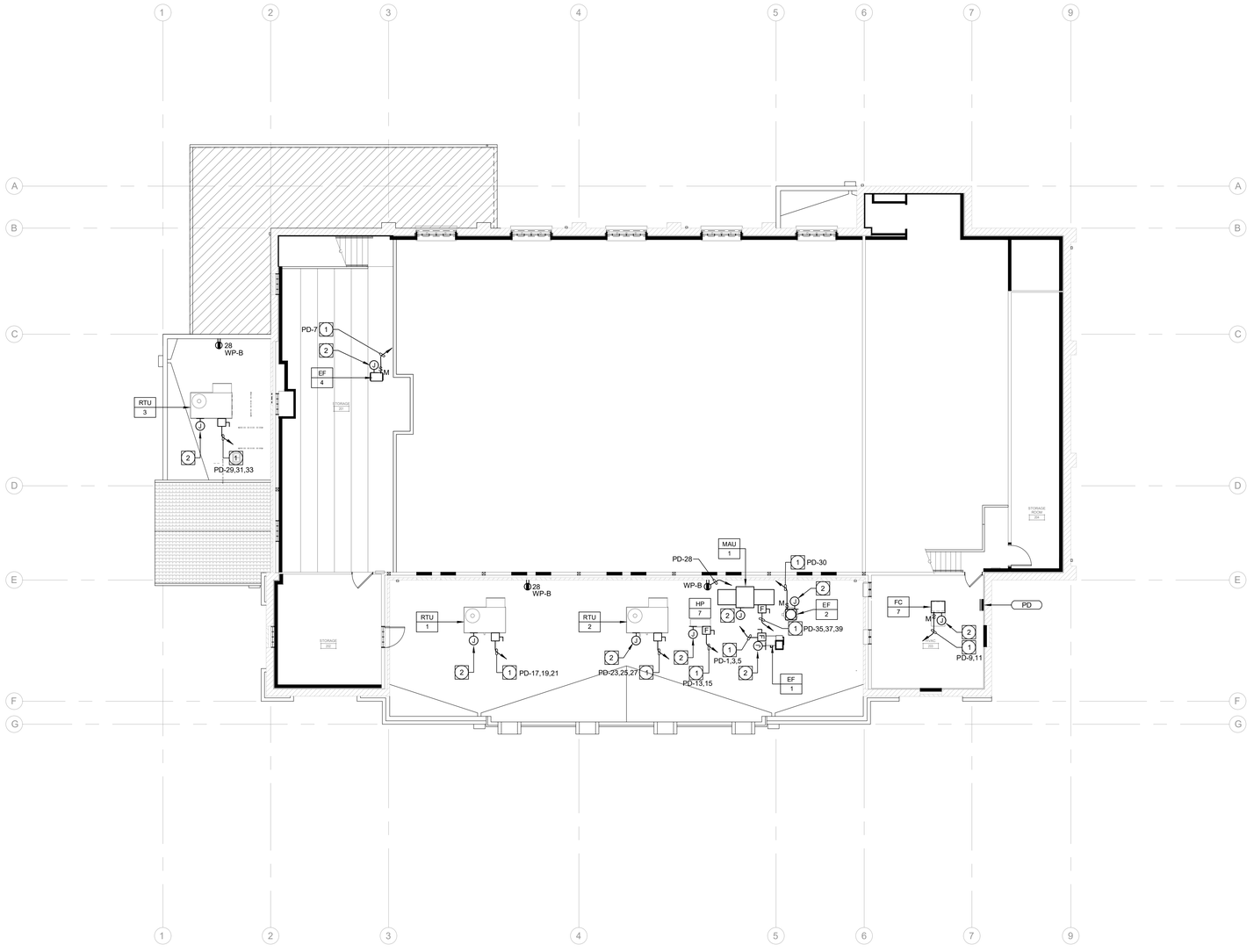
J. ROUTE 1 PHASE CONDUCTOR OF EACH UPS ROOM/DATA ROOM EXHAUST FAN BRANCH CIRCUIT THROUGH/AROUND A DEDICATED, CURRENT-OPERATED LOAD MONITORING SWITCH THAT DETECTS OVERLOADS AND UNDERLOADS (INCLUDING FAN BELT BREAKAGE) WITHIN +/- 15 PERCENT OF AVERAGE CURRENT DRAW. LOCATE IN BARRIERED PULL BOX - NEMA 3R FOR WET LOCATIONS - AND CONNECT N.O. CONTACT TO FIRE ALARM MONITORING MODULE (SUPERVISORY SIGNAL). LOCATE PULL BOX WITH DEVICES INDOORS WHERE POSSIBLE AND ADJACENT TO THE SERVING ELECTRICAL DISTRIBUTION EQUIPMENT. PROVIDE LABEL "USPA BATTERY EX. FAN MONITOR" PER LABELING SPECIFICATIONS. (NK TECHNOLOGIES #ASM-NOU-OU-FT - www.nktechnologies.com).

K. ROUTE THROUGH LINE VOLTAGE CONTROL FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM. SEE MECHANICAL, FIRE ALARM AND FOOD SERVICE PLANS FOR ADDITIONAL REQUIREMENTS.

PLAN NOTES:

1. REFER TO MOTORIZED EQUIPMENT SCHEDULE FOR MOTOR FEEDER/ BRANCH CIRCUIT INFORMATION.

2. PROVIDE 3/4" C.O.(S) TO RESPECTIVE CONTROL DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.



MECHANICAL POWER PLAN PLAN - LEVEL 2

SCALE: 1/8" = 1'-0"

MOTORIZED EQUIPMENT SCHEDULE GENERAL NOTES:

1. ALL BRANCH CIRCUIT DATA IS BASED UPON METALLIC CONDUITS. IF THE CONTRACTOR ELECTS TO USE NONMETALLIC CONDUITS, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED PER NEC, OR CEC WHERE ADOPTED, TABLE 250.122 AND THE CONDUIT SIZE SHALL BE INCREASED ACCORDINGLY.
2. ELECTRICAL CONTRACTOR SHALL REFER TO ALL DOCUMENTS RELATED TO THE EQUIPMENT (I.E. SHOP DRAWINGS, CONSTRUCTION DOCUMENTS, ETC.) IN REGARDS TO ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT LISTED IN THE SCHEDULE. ANY MODIFICATION AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.
3. ELECTRICAL CONTRACTOR SHALL CHECK THE ROTATION OF ALL THREE PHASE MOTORS AND CORRECT THE ROTATION IF REVERSED.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE FUSES SIZED PER THE EQUIPMENT NAMEPLATE INFORMATION.
5. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, EXTERNALLY OPERATED, QUICK MAKE QUICK BREAK AND SHALL BE FUSIBLE OR NON FUSIBLE AS INDICATED. A MAXIMUM VOLTAGE, CURRENT AND HORSEPOWER SHALL BE CLEARLY MARKED ON SWITCH ENCLOSURE. SWITCHES HAVING DUAL RATINGS (HIGHER RATINGS WHEN USED WITH DUAL ELEMENT FUSES) SHALL HAVE RATINGS INDICATED ON METAL PLATES RIVETED OR OTHERWISE PERMANENTLY ATTACHED TO THE ENCLOSURE. WHEN INDICATED, TOGGLE SWITCHES SHALL BE MOTOR RATED FOR THE APPLICATION.
6. STARTERS SHALL BE FULL VOLTAGE, REDUCED VOLTAGE OR COMBINATION DISCONNECT AND STARTER, WITH CONTROL VOLTAGE AS REQUIRED. AS INDICATED ON THE DOCUMENTS RELATED TO THE EQUIPMENT, SUCH AS SHOP DRAWINGS, CONSTRUCTION DOCUMENTS, ETC. STARTERS SHALL INCLUDE MOTOR OVERLOAD PROTECTION, PHASE LOSS AND PHASE UNBALANCE PROTECTION AS REQUIRED.
7. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE C CONDUCTORS.
8. COMPLETE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NEC (OR CEC WHERE ADOPTED) ARTICLES 430 AND 440.
9. CONTRACTOR TO COORDINATE WITH ALL OTHER PROJECT TRADES AND WITH OWNER/ TENANT FOR TO OBTAIN RESPECTIVE EQUIPMENT SCCR AND PROVIDE APPROPRIATE PROTECTIVE DEVICES TO LIMIT AVAILABLE FAULT CURRENT TO LESS THAN THE EQUIPMENT NAMEPLATE SCCR PER NEC (OR CEC WHERE ADOPTED) 110.10. SEE POWER SYSTEM STUDY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
10. UNLESS OTHERWISE NOTED, MOCP VALUES FOR VFD-EQUIPPED DEVICE ARE SIZED PER NEC (OR CEC WHERE ADOPTED) 430.130(A).1. CONTRACTOR SHALL COORDINATE WITH ALL OTHER PROJECT TRADES AND WITH OWNER/ TENANT (IF PROVIDING EQUIPMENT ON PROJECT) TO OBTAIN NAMEPLATE VFD-EQUIPPED DEVICE MOCP VALUE FROM MANUFACTURER INSTALLATION INSTRUCTIONS AND PROVIDE APPROPRIATE PROTECTIVE DEVICES TO COMPLY WITH NEC (OR CEC WHERE ADOPTED) 430.130(A).2.

POWER PLAN GENERAL NOTES:

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24-INCHES MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
5. ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
6. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
   a. ALL BRANCH CIRCUITS SHALL BE EMT.
   b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
7. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
8. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY A GFCI CIRCUIT BREAKER(S) WHEN RECEPTACLES ARE 50A OR LESS, 150V TO GROUND OR LESS AND ARE LOCATED WITHIN 6-FEET OF ANY SINK OR THERAPEUTIC TUB, LAUNDRY AREA, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE, LOCKER ROOM AREA, GARAGE AND BATHROOM SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
9. PROVIDE OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY(S) AS REQUIRED TO SWITCH CONTROLLED RECEPTACLES. CONNECT BRANCH CIRCUITRY AND CONTROL WIRING AS REQUIRED TO ALLOW OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM RELAY TO SWITCH STANDALONE AND/OR SYSTEMS FURNITURE CONTROLLED RECEPTACLES AS INDICATED ON PLANS. PROVIDE ADDITIONAL CONDUIT, WIRING AND PATHWAYS NECESSARY TO CONNECT BRANCH CIRCUITRY AND CONTROL WIRING TO REMOTE RELAYS TO INCLUDE RELAY(S) LOCATED ON ALTERNATE FLOORS, IN ELECTRICAL ROOMS, ETC.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
12. PROVIDE REDUNDANT GROUND PATH IN ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS CONSISTING OF A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR PER NEC, OR CEC WHERE ADOPTED, ART 517.13.

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WSP Job #: B2305166.000

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RAYMOND P. SHAFFER
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MECHANICAL POWER PLAN - LEVEL 2

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
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Project No.	21-6497

SHEET No.

E2.8

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XREFs: X-CVH_Title Block 1-CVH.dwt, X-CVH.dwt, X-CVH-ARCH

MOTORIZED EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	EQUIPMENT RATING								DISC. SW. SIZE STARTER SIZE	CIRCUIT DATA CONDUIT - WIRE	SPECIFIC NOTES
				MOTOR		VFD						
		VOLTS	PH.	HP	FLA	FLA	MCA	MOCP	SCCR			
HP 1	HEAT PUMP -	208	1	-	23.28	-	29.1	35	-	60AS -	3/4"C. - 2#8, 1#10 GRD. -	A
HP 2	HEAT PUMP -	208	1	-	23.28	-	29.1	35	-	60AS -	3/4"C. - 2#8, 1#10 GRD. -	A
HP 3	HEAT PUMP -	208	1	-	23.28	-	29.1	35	-	60AS -	3/4"C. - 2#8, 1#10 GRD. -	A
HP 4	HEAT PUMP -	208	1	-	23.28	-	29.1	35	-	60AS -	3/4"C. - 2#8, 1#10 GRD. -	A
HP 5	HEAT PUMP -	208	1	-	23.28	-	29.1	35	-	60AS -	3/4"C. - 2#8, 1#10 GRD. -	A
HP 6	HEAT PUMP -	208	1	-	23.28	-	29.1	35	-	60AS -	3/4"C. - 2#8, 1#10 GRD. -	A
- -	- -	-	-	-	-	-	-	-	-	- -	- -	-
- -	- -	-	-	-	-	-	-	-	-	- -	- -	-
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- -	- -	-	-	-	-	-	-	-	-	- -	- -	-

MOTORIZED EQUIPMENT SCHEDULE SPECIFIC NOTES:

A. FUSED AS RECOMMENDED BY MANUFACTURER.

B. MAGNETIC MOTOR STARTER WITH CONTROL TRANSFORMER, AUXILIARY CONTACTS, INDICATOR LIGHT AND H.O.A. SWITCH. VERIFY CONTROL TRANSFORMER VOLTAGE WITH M.C. PRIOR TO ORDERING MATERIAL.

C. ROUTE THROUGH LINE VOLTAGE CONTROL. SEE MECHANICAL AND/OR PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.

D. VERIFY LOCATION WITH PLUMBING PLANS PRIOR TO ROUGH-IN. CONNECT TO AQUASTAT AND TIME CLOCK AS REQUIRED.

E. REMOTE VFD. PROVIDE EARLY BREAK CONTACTS ON ANY DISCONNECT SWITCHES REQUIRED BY CODE OR SHOWN ON PLANS THAT ARE DOWNSTREAM OF THE REMOTE VFD. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED TO INTERCONNECT THE CONTACT WITH VFD "ENABLE" TERMINALS. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. PROVIDE FEEDER(S) TO CONNECT REMOTE VFD AND MOTOR(S) AS REQUIRED.

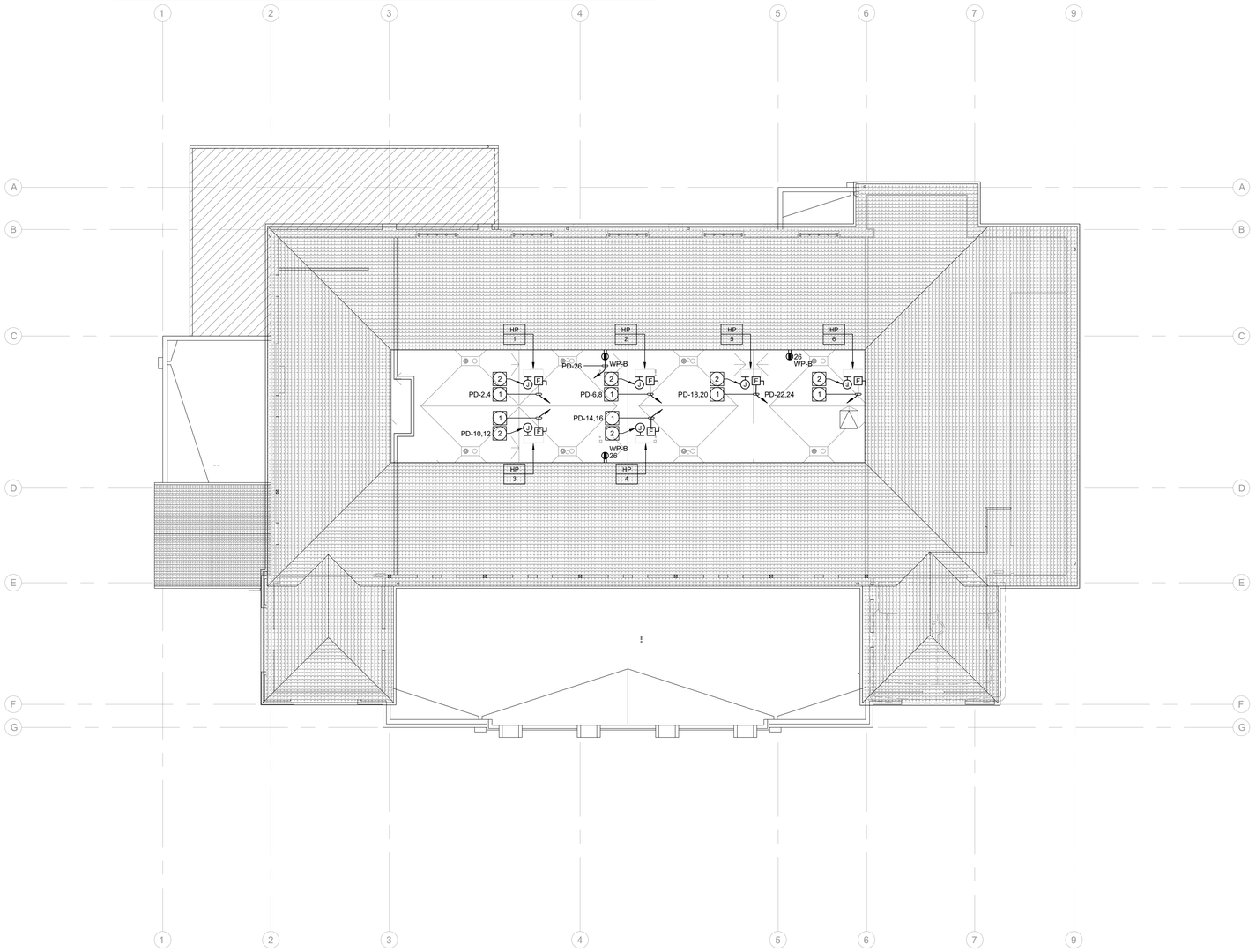
F. INTEGRAL VFD PROVIDED WITH EQUIPMENT. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO VFD AS REQUIRED.

G. INTEGRAL DISCONNECT PROVIDED WITH EQUIPMENT. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO INTEGRAL DISCONNECT AS REQUIRED.

H. INTEGRAL DISCONNECT PROVIDED WITH VFD. REFER TO MECHANICAL AND/OR PLUMBING PLANS FOR LOCATION. CONNECT TO INTEGRAL DISCONNECT AS REQUIRED.

J. ROUTE 1 PHASE CONDUCTOR OF EACH UPS ROOM/DATA ROOM EXHAUST FAN BRANCH CIRCUIT THROUGH/AROUND A DEDICATED, CURRENT-OPERATED LOAD MONITORING SWITCH THAT DETECTS OVERLOADS AND UNDERLOADS (INCLUDING FAN BELT BREAKAGE) WITHIN +/- 15 PERCENT OF AVERAGE CURRENT DRAW. LOCATE IN BARRIERED PULL BOX - NEMA 3R FOR WET LOCATIONS - AND CONNECT N.O. CONTACT TO FIRE ALARM MONITORING MODULE (SUPERVISORY SIGNAL). LOCATE PULL BOX WITH DEVICES INDOORS WHERE POSSIBLE AND ADJACENT TO THE SERVING ELECTRICAL DISTRIBUTION EQUIPMENT. PROVIDE LABEL "USPA BATTERY EX. FAN MONITOR" PER LABELING SPECIFICATIONS. (NK TECHNOLOGIES #ASM-NOU-OU-FT - www.nktechnologies.com).

K. ROUTE THROUGH LINE VOLTAGE CONTROL FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM. SEE MECHANICAL, FIRE ALARM AND FOOD SERVICE PLANS FOR ADDITIONAL REQUIREMENTS.



ROOF PLAN

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. REFER TO MOTORIZED EQUIPMENT SCHEDULE FOR MOTOR FEEDER/ BRANCH CIRCUIT INFORMATION.

2. PROVIDE 3/4" C.O.(S) TO RESPECTIVE CONTROL DEVICE(S) FOR CONTROL WIRING. REFER TO THE EQUIPMENT CONTROL WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.

ROOF PLAN GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL/PLUMBING AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND CHARACTERISTICS OF ALL EQUIPMENT LISTED IN SCHEDULE. ANY MODIFICATIONS AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.

2. ALL TEMPERATURE CONTROL AND INTERLOCK CONDUIT AND WIRING SHALL BE BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. SEE MECHANICAL/PLUMBING DRAWINGS FOR ALL INFORMATION.

3. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL CONNECTION POINTS WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

4. ELECTRICAL CONTRACTOR SHALL PROVIDE LOCAL REMOTE DISCONNECTING MEANS FOR ALL ELECTRIC HEATING EQUIPMENT IF REQUIRED BY THE LOCAL ELECTRICAL CODE.

5. ELECTRICAL CONTRACTOR SHALL COORDINATE THE ROUTING OF CONDUIT/WIRING TO ROOF-MOUNTED EQUIPMENT WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. WHERE ROOF-MOUNTED EQUIPMENT IS MANUFACTURED TO BE FED FROM WITHIN MECHANICAL CURB ASSEMBLY - SEPARATE ROOF PENETRATIONS FOR WIRING CONNECTIONS SHALL NOT BE PERMITTED. ALL WIRING SHALL BE BELOW THE ROOF IN AN ACCESSIBLE CEILING SPACE LOCATION.

6. ALL ROOF MOUNTED EQUIPMENT SHALL BE NEMA 3R RATED.

7. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

MOTORIZED EQUIPMENT SCHEDULE GENERAL NOTES:

1. ALL BRANCH CIRCUIT DATA IS BASED UPON METALLIC CONDUITS. IF THE CONTRACTOR ELECTS TO USE NONMETALLIC CONDUITS, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED PER NEC, OR CEC WHERE ADOPTED, TABLE 250.122 AND THE CONDUIT SIZE SHALL BE INCREASED ACCORDINGLY.

2. ELECTRICAL CONTRACTOR SHALL REFER TO ALL DOCUMENTS RELATED TO THE EQUIPMENT (I.E. SHOP DRAWINGS, CONSTRUCTION DOCUMENTS, ETC.) IN REGARDS TO ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT LISTED IN THE SCHEDULE. ANY MODIFICATION AND/OR ADDITIONAL WORK NECESSARY SHALL BE INCLUDED IN THE BASE BID.

3. ELECTRICAL CONTRACTOR SHALL CHECK THE ROTATION OF ALL THREE PHASE MOTORS AND CORRECT THE ROTATION IF REVERSED.

4. ELECTRICAL CONTRACTOR SHALL PROVIDE FUSES SIZED PER THE EQUIPMENT NAMEPLATE INFORMATION.

5. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, EXTERNALLY OPERATED, QUICK MAKE QUICK BREAK AND SHALL BE FUSIBLE OR NON FUSIBLE AS INDICATED. A MAXIMUM VOLTAGE, CURRENT AND HORSEPOWER SHALL BE CLEARLY MARKED ON SWITCH ENCLOSURE. SWITCHES HAVING DUAL RATINGS (HIGHER RATINGS WHEN USED WITH DUAL ELEMENT FUSES) SHALL HAVE RATINGS INDICATED ON METAL PLATES RIVETED OR OTHERWISE PERMANENTLY ATTACHED TO THE ENCLOSURE. WHEN INDICATED, TOGGLE SWITCHES SHALL BE MOTOR RATED FOR THE APPLICATION.

6. STARTERS SHALL BE FULL VOLTAGE, REDUCED VOLTAGE OR COMBINATION DISCONNECT AND STARTER, WITH CONTROL VOLTAGE AS REQUIRED, AS INDICATED ON THE DOCUMENTS RELATED TO THE EQUIPMENT, SUCH AS SHOP DRAWINGS, CONSTRUCTION DOCUMENTS, ETC. STARTERS SHALL INCLUDE MOTOR OVERLOAD PROTECTION, PHASE LOSS AND PHASE UNBALANCE PROTECTION AS REQUIRED.

7. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE C CONDUCTORS.

8. COMPLETE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF NEC (OR CEC WHERE ADOPTED) ARTICLES 430 AND 440.

9. CONTRACTOR TO COORDINATE WITH ALL OTHER PROJECT TRADES AND WITH OWNER/ TENANT FOR TO OBTAIN RESPECTIVE EQUIPMENT SCCR AND PROVIDE APPROPRIATE PROTECTIVE DEVICES TO LIMIT AVAILABLE FAULT CURRENT TO LESS THAN THE EQUIPMENT NAMEPLATE SCCR PER NEC (OR CEC WHERE ADOPTED) 110.10. SEE POWER SYSTEM STUDY SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

10. UNLESS OTHERWISE NOTED, MOCP VALUES FOR VFD-EQUIPPED DEVICE ARE SIZED PER NEC (OR CEC WHERE ADOPTED) 430.130(A).1. CONTRACTOR SHALL COORDINATE WITH ALL OTHER PROJECT TRADES AND WITH OWNER/ TENANT (IF PROVIDING EQUIPMENT ON PROJECT) TO OBTAIN NAMEPLATE VFD-EQUIPPED DEVICE MOCP VALUE FROM MANUFACTURER INSTALLATION INSTRUCTIONS AND PROVIDE APPROPRIATE PROTECTIVE DEVICES TO COMPLY WITH NEC (OR CEC WHERE ADOPTED) 430.130(A).2.

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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ROOF PLAN

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

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E2.9

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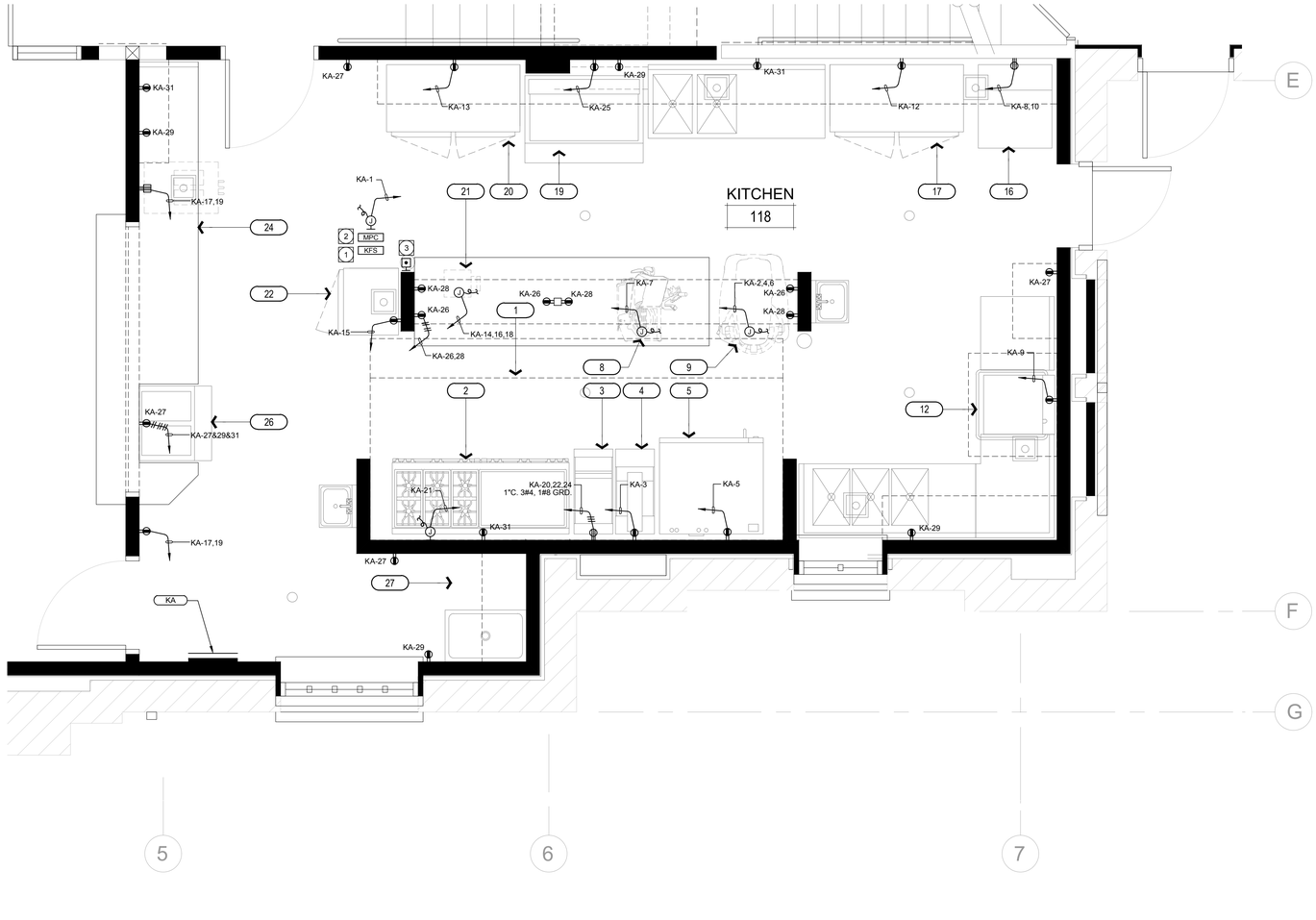
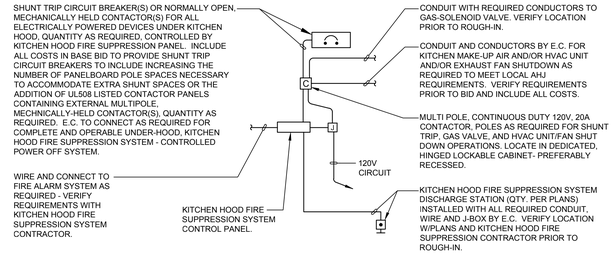


ENLARGED KITCHEN POWER PLAN

SCALE: 1/2" = 1'-0"

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES	UTILITY REQUIREMENTS			
						ELECTRIC	GAS	WATER	WASTE
1	1	HOOD, 12' LONG WITH INTEGRAL ANSUL SYSTEM	SEE MECHANICAL DRAWINGS	SEE MECHANICAL DRAWINGS		●			
2	1	RANGE (E)	WOLF	C72SS-6B36GN	OFCI	●	●		
3	1	FRYER	PITCO	SE148		●			
4	1	FRY DUMPSTATION	PITCO	BNB-SE14		●			
5	1	COMBI OVEN	VULCAN	ABC7G-NAT	OFCI	●	●		
6	1	10' x 3' STAINLESS STEEL TABLE (SHELF BELOW)	CUSTOM FABRICATED	SEE ELEVATIONS					
7	1	13' x 18" STAINLESS STEEL SHELVES	CUSTOM FABRICATED	SEE ELEVATIONS					
8	1	MEAT SLICER	HOBART	HS9	NIC	●			
9	1	STAND MIXER	HOBART	LEGACY HL600 MIXER	NIC	●			
10	1	3 COMPARTMENT SINK	ADVANCE TABCO	FC-3-2424				●	●
11	2	30" DEEP STAINLESS STEEL COUNTER	CUSTOM FABRICATED	SEE ELEVATIONS					
12	1	DISHWASHER	HOBART	CDL-1	OFCI	●		●	●
13	1	TYPE II HOOD	SEE MECHANICAL DRAWINGS	SEE MECHANICAL DRAWINGS		●			
14	2	HAND WASHING SINK	EAGLE	HSAN-10-F-LRS				●	●
15	5	18" DEEP STAINLESS STEEL SHELVES, WALL MOUNTED	CUSTOM FABRICATED	SEE ELEVATIONS					
16	1	ICE MAKER W/ BIN (NUGGET)	MANITOWOC	RNF-1100A/D570		●		●	●
17	1	FREEZER	TRUE	TS-49F-4-HC		●			
18	1	PREP SINK	CUSTOM FABRICATED	SEE ELEVATIONS				●	●
19	1	DELI STATION	DELFIELD	4448NP-18M		●			
20	1	REFRIGERATOR	TRUE	TS-49-A-HC		●			
21	1	FOOD PROCESSOR	ROBOT COUPE	R602	NIC	●			
22	1	BEVERAGE REFRIGERATOR	TRUE	T-19G-HC~FGD01		●			
23	1	ICE CREAM MACHINE	SPACEMAN	6235-C	NIC	●			●
24	1	STAINLESS STEEL COUNTERTOP	CUSTOM FABRICATED	SEE ELEVATIONS					
25	1	WARMING STATION	AVANTCO	177W50	NIC	●			
26	1	HOT FOOD SERVING COUNTER	DUKE	E302SW	OFCI	●			
27	1	JANITOR SINK	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS				●	●



1 KITCHEN HOOD FIRE SUPPRESSION SYSTEM SCHEMATIC

SCALE: N.T.S.

PLAN NOTES:

1. CONNECT TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM AS REQUIRED. SEE KITCHEN HOOD FIRE SUPPRESSION SYSTEM SCHEMATIC FOR MORE INFORMATION.
2. MULTIPOLE CONTACTOR CABINET, HINGED, LOCKABLE, LOCATED ABOVE KITCHEN HOOD FIRE SUPPRESSION PANEL - IF REQUIRED - TO HOUSE INTERPOSING RELAYS/CONTACTORS FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM. SEE KITCHEN HOOD FIRE SUPRESSION SYSTEM SCHEMATIC FOR MORE INFORMATION.
3. KITCHEN HOOD FIRE SUPPRESSION SYSTEM DISCHARGE STATION INSTALLED WITH REQUIRED CONDUIT, WIRE AND J-BOX BY E.C. VERIFY LOCATION WITH PLANS AND KITCHEN PLANS AND KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTRACTOR PRIOR TO ROUGH-IN.

KITCHEN PLAN GENERAL NOTES:

1. INTERNAL WIRING AND PLUMBING OF FABRICATED FIXTURES SHALL BE THE RESPONSIBILITY OF THE FIXTURE MANUFACTURER, UNLESS OTHERWISE NOTED. FINAL HOOKUP OF EQUIPMENT AND FIXTURES SHALL BE BY THE ELECTRICAL AND/OR PLUMBING CONTRACTORS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE STARTING FABRICATION OF CUSTOM FABRICATED FIXTURES.
3. CONVENIENCE OUTLETS SHALL BE SET HORIZONTALLY.
4. WHERE STUBBING UP OUT OF A FLOOR, CONDUIT SHALL EXTEND A MINIMUM OF 4" ABOVE THE FINISHED FLOOR OR CURB.
5. CONTRACTOR SHALL SUPPLY AND INSTALL STAINLESS STEEL COVER PLATES ON PARTIALLY OR WHOLLY EXPOSED PULL BOXES AND ACCESS BOXES.
6. CONTRACTOR SHALL SUPPLY AND INSTALL LOCKOUT DEVICES ON BREAKERS FOR CLOCKS, MECHANICAL REFRIGERATION SYSTEMS, CONTROL WIRING AND EXHAUST HOOD FIRE PROTECTION SYSTEM CONTROLS.
7. CONTRACTOR SHALL SUPPLY AND INSTALL SWITCHES FOR HEAT LAMPS, EXHAUST HOOD LIGHTS AND MAKE-UP AIR SYSTEMS. VERIFY LOCATIONS WITH ARCHITECT.
8. WHEN ELECTRIC SOLENOID GAS SHUTOFF VALVES ARE SPECIFIED FOR THE EXHAUST HOOD FIRE PROTECTION SYSTEM, THE EXHAUST HOOD FIRE PROTECTION SYSTEM CONTRACTOR SHALL FURNISH AND ELECTRICAL SHALL INSTALL THE DEVICES. REFER TO ARCHITECTURAL KITCHEN DRAWING, SHEET A-3.2.
9. CONTRACTOR SHALL PROVIDE POWER FOR AND CONNECT REFRIGERATION COMPRESSORS AND BLOWER COILS, AND AUTOMATIC DEFROST SYSTEMS SHOWN ON THE REFRIGERATION SCHEDULE. FURNISH AND INSTALL MAGNETIC STARTERS AND THERMO-OVERLOAD PROTECTION DEVICES AS REQUIRED.
10. CONTRACTOR SHALL PACK SEAL AND ALL EXPOSED J-BOXES AND CONDUIT ON WALK-IN COOLERS AND FREEZERS TO PREVENT INTERNAL CONDENSATION.
11. CONTRACTOR SHALL PROVIDE POWER TO AND CONNECT KITCHEN EXHAUST AND MAKE-UP AIR BLOWER MOTORS, WHETHER PROVIDED BY FOOD SERVICE EQUIPMENT AND FIXTURE CONTRACTOR OR HVAC SECTION.
12. CONTRACTOR SHALL PROVIDE CONDUITS AND PULL BOXES FOR REFRIGERATION, BEVERAGE AND SODA LINES.
13. BEFORE INSTALLING J-BOXES OR OTHER FITTINGS ON WALK-IN REFRIGERATOR WALLS OR CEILINGS, VERIFY EXISTENCE OF ADEQUATE SUPPORT AND INSULATION WITH REFRIGERATOR MANUFACTURER. ALL CONDUIT MOUNTED ON INTERIOR OF WALK-INS SHALL BE SPACED 1" OFF WALL.
14. VERIFY MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
15. THE CONTRACTOR SHALL REVIEW ALL OF THE FOOD SERVICE EQUIPMENT PLANS PRIOR TO BID FOR ALL WORK REQUIRED BY THE CONTRACTOR AND SHALL INCLUDE IN THE BID ALL NECESSARY MATERIAL AND LABOR TO CONNECT AND PROVIDE CIRCUITING TO ALL KITCHEN EQUIPMENT. IF ANY DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL ISSUE AN RFI FOR CLARIFICATION PRIOR TO BID.

ALL RECEPTACLES WITHIN KITCHEN OR SERVING AREA SHALL BE GFI-TYPE.

POWER PLAN GENERAL NOTES:

1. ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24-INCHES MINIMUM.
2. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.
4. ALL FURNITURE FEED LOCATIONS TO BE VERIFIED WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN.
5. ALL FURNITURE WHIPS SHALL BE TRIMMED TO REDUCE EXCESS WHIP LENGTH.
6. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, THE CONTRACTOR WILL NEED TO PROVIDE THE FOLLOWING ITEMS:
   a. ALL BRANCH CIRCUITS SHALL BE EMT.
   b. ALL BRANCH CIRCUITS SHALL BE ROUTED ORTHOGONALLY, NEATLY TRAINED, IN PARALLEL TO STRUCTURES OR DUCTWORK. THE TERM "TRAINED" MEANS ALL PARALLEL CONDUITS SHALL MAINTAIN THE SAME SPATIAL RELATIONSHIP WITH EACH OTHER FOR ENTIRE RUN TO INCLUDE RADIUS BENDS AND SWEEPS.
   c. VISUALLY OBJECTIONABLE BRANCH CIRCUITS WILL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.
7. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL CONFORM TO NEC, OR CEC WHERE ADOPTED, ARTICLE 300.22(C).
8. PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY A GFCI CIRCUIT BREAKER(S) WHEN RECEPTACLES ARE 50A OR LESS, 150V TO GROUND OR LESS AND ARE LOCATED WITHIN 6-FEET OF ANY SINK OR THERAPEUTIC TUB, LAUNDRY AREA, SERVING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE, LOCKER ROOM AREA, GARAGE AND BATHROOM SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.
9. PROVIDE OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM CONTROLLED RECEPTACLE RELAY(S) AS REQUIRED TO SWITCH CONTROLLED RECEPTACLES. CONNECT BRANCH CIRCUITRY AND CONTROL WIRING AS REQUIRED TO ALLOW OCCUPANCY SENSOR/LIGHTING CONTROL SYSTEM RELAY TO SWITCH STANDALONE AND/OR SYSTEMS FURNITURE CONTROLLED RECEPTACLES AS INDICATED ON PLANS. PROVIDE ADDITIONAL CONDUIT, WIRING AND PATHWAYS NECESSARY TO CONNECT BRANCH CIRCUITRY AND CONTROL WIRING TO REMOTE RELAYS TO INCLUDE RELAY(S) LOCATED ON ALTERNATE FLOORS, IN ELECTRICAL ROOMS, ETC.
10. PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.

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Project Leader - Jerry Leonhardt
Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RICHMOND P. SHAFFER No. E15610 12/31/2025 ELECTRICAL

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ELECTRICAL
ENLARGED PLAN

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

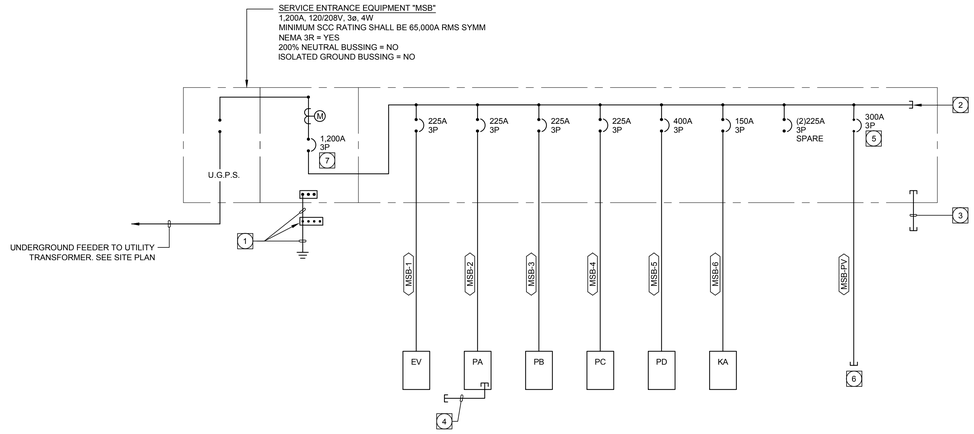
Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/2"=1'-0"
Project No.	21-6497

SHEET No.

E2.10

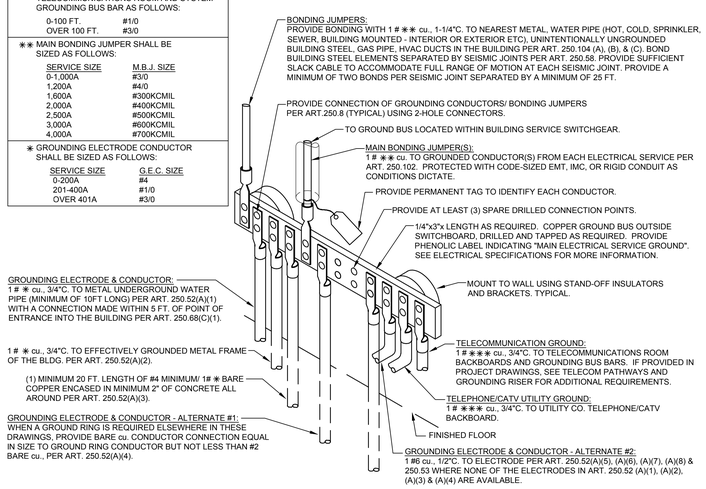
Login Name: USRC70029
Plot Date: October 06, 2025 - 2:57 pm
File Name: P:\Projects\2021\21-6497 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E2.10.dwg
Plotted By: Richard Shaffer
Plot Scale: 1.0000 '= 1.0000 '
Plot Device: ARCH full bleed D (24.00 x 36.00 Inches)



SINGLE LINE DIAGRAM

SCALE: NONE

✱✱✱ TELECOMMUNICATIONS GROUND CONDUCTOR MINIMUM SIZE SHALL BE BASED ON DISTANCE BETWEEN TELECOMMUNICATIONS ROOM AND SYSTEM GROUNDING BUS BAR AS FOLLOWS: 0-100 FT. #1/0 OVER 100 FT. #3/0
✱✱ MAIN BONDING JUMPER SHALL BE SIZED AS FOLLOWS: SERVICE SIZE — M.B.J. SIZE 0-1,000A — #3/0 1,200A — #4/0 1,600A — #300KCMIL 2,000A — #400KCMIL 2,500A — #500KCMIL 3,000A — #600KCMIL 4,000A — #700KCMIL
✱ GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED AS FOLLOWS: SERVICE SIZE — G.E.C. SIZE 0-200A — #4 201-400A — #1/0 OVER 401A — #3/0



1 MAIN SERVICE SYSTEM GROUNDING DETAIL

SCALE: NTS

FEEDER SCHEDULE

FEEDER	CONDUIT AND CONDUCTORS	LOAD A	DISTANCE	V.D. (%)	A.I.C.	NOTES
MSB-1	2.5"C. 4#4/0 & 1#2 GRD. -	(180)	15'	0.14	38.4K	-
MSB-2	2.5"C. 4#4/0 & 1#2 GRD. -	(180)	100'	0.95	14.6K	-
MSB-3	2.5"C. 4#4/0 & 1#2 GRD. -	(180)	80'	0.76	17.1K	-
MSB-4	2.5"C. 4#4/0 & 1#2 GRD. -	(180)	60'	0.57	20.6K	-
MSB-5	(2) [2-1/2"C. 4#3/0 & 1#4 GRD. EACH] -	(320)	160'	1.70	15.1K	-
MSB-6	2"C. 4#1/0 & 1#6 GRD. -	(120)	145'	1.84	<10K	-
MSB-PV	2-1/2"C. 3#350KCMIL & 1#3 GRD -	(240)	-	-	-	-

GENERAL SINGLE LINE DIAGRAM NOTES:

1. ALL SWITCHGEAR SHALL TO MATCH EXISTING ON CAMPUS.
2. ALL ITEMS DEPICTED ON THE SINGLE LINE DRAWINGS SHALL BE ASSUMED AS NEW U.O.N.
3. ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT-SERIES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED. SEE SPECIFICATIONS FOR MORE INFORMATION.
4. SERIES RATED DEVICES SHALL HAVE BEEN INVESTIGATED BY UL IN COMBINATION WITH THE END USE EQUIPMENT AND IN THE EQUIPMENT IN WHICH THESE DEVICES ARE USED SHALL BE MARKED WITH A SERIES RATING. ALL EQUIPMENT SHALL BE MARKED IN ACCORDANCE WITH NEC (OR CEC-WHERE ADOPTED) REQUIREMENTS. SEE SPECIFICATIONS FOR MORE INFORMATION. WHERE SERIES RATINGS ARE ALLOWED, THE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE A SERIES COMBINATION RATING. WHICH SHALL BE READILY VISIBLE AND STATE THE FOLLOWING:

   CAUTION - SERIES COMBINATION SYSTEM RATED AT ??,???
   AMPERES. USE ONLY IDENTIFIED REPLACEMENT COMPONENTS IN
   THIS SYSTEM.

   WHERE ??,??? REPRESENTS AVAILABLE FAULT CURRENT. SEE SPECIFICATIONS FOR PLACARD REQUIREMENTS.
5. ALL TERMINATIONS AND ENCLOSURES SHALL BE RATED FOR USE WITH 75 DEGREE CELSIUS CONDUCTORS.
6. ALL SERVICE ENTRANCE EQUIPMENT RATED AT 400A OR GREATER SHALL BE PROVIDED WITH A BACKFEED-RATED, SOLID STATE MAIN OVERCURRENT DEVICE AND BUSSING RATED AT 100% OPERATION. NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARDS LARGER THAN 600A SHALL BE PROVIDED WITH A SOLID STATE MAIN OVERCURRENT DEVICE, IF SHOWN ON PLANS, AND WITH BUSSING RATED AT 100% OPERATION. ALL NON-SERVICE ENTRANCE SWITCHBOARDS AND DISTRIBUTION BOARD MAIN OVERCURRENT DEVICES SHALL BE BACKFEED-RATED. BACKFEED RATINGS SHALL COMPLY WITH NEC, OR CEC WHERE ADOPTED, 690.64(B)(5). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS REGARDING CIRCUIT BREAKERS.
7. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL HAVE:
   a. TIN-PLATED ALUMINUM BUSSING WITH RECTANGULAR CROSS SECTION. HORIZONTAL AND VERTICAL BUSSING SHALL BE FULL LENGTH AND SHALL HAVE PROVISIONS FOR FUTURE EXTENSIONS. ALL BUSSING SHALL HAVE MINIMUM WITHSTAND RATING EQUAL TO THE AVAILABLE FAULT CURRENT INDICATED. ALL VERTICAL AND HORIZONTAL BUSSING SHALL BE RATED AT FULL CAPACITY IN ALL SWITCHBOARD AND DISTRIBUTION BOARD SECTIONS. PROVIDE 100% NEUTRAL BUSSING MINIMUM UNLESS OTHERWISE NOTED. PROVIDE FULL LENGTH GROUND BUS AND, WHERE INDICATED ON PLANS, ISOLATED GROUND BUSSING. PROVIDE REAR WIRE WAY IN ALL SWITCHBOARD SECTIONS.
   b. LUGS SUITABLE FOR USE WITH COPPER OR ALUMINUM CONDUCTORS LISTED FOR USE WITH 75 DEGREE CELSIUS AMPACITY CONDUCTORS.
   c. PERMANENT PLACARD(S) MARKED PER THE SPECIFICATIONS AND PER NEC (OR CEC-WHERE ADOPTED) SECTIONS 225.37, 230.2(E), 690.56(B) & (C), 692.56, 700.8, 701.9, AND 702.8 DENOTING THE PRESENCE OF ADDITIONAL SERVICES, PHOTOVOLTAIC SYSTEMS, FUEL CELLS, EMERGENCY OR STAND-BY POWER SOURCES AS APPLICABLE.
8. CONTRACTOR SHALL SUBMIT SWITCHBOARD SHOP DRAWINGS TO THE SERVING UTILITY FOR APPROVAL PRIOR TO FABRICATION. CONTRACTOR SHALL SECURE CONFIRMATION THAT THE PROPOSED SWITCHBOARD COMPLIES WITH ELECTRIC UTILITY COMPANY REGULATIONS.
9. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE SPECIFICATIONS FOR SWITCHBOARDS, DISTRIBUTION BOARDS TRANSFORMERS, PANEL BOARDS AND ALL OTHER DEVICES SHOWN ON THE SINGLE LINE PRIOR TO FABRICATION.
10. ALLOWABLE DIMENSIONS IN MAIN ELECTRICAL ROOM ARE A CRITICAL COORDINATION ITEM. CONTRACTOR SHALL PROVIDE 1/4"= 1'-0" SCALE DRAWINGS WITH SWITCHGEAR SUBMITTALS SHOWING THAT ALL PROPOSED EQUIPMENT WILL FIT IN THE SPACE PROVIDED. SUBMITTALS WITHOUT THIS DRAWING SHALL BE REJECTED AS INCOMPLETE.
11. UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL DEVICES SHOWN ARE NEW.
12. WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION OR WHERE A NEW GROUND FAULT PROTECTIVE DEVICE IS BEING INSTALLED, A GROUND FAULT SYSTEM TEST SHALL BE CONDUCTED BY AN INDEPENDENT TESTING AGENCY PER NEC (OR CEC-WHERE ADOPTED) 230.95(C). THE GROUND FAULT SYSTEM TEST SHALL BE PERFORMED IN THE PRESENCE OF THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFICATION OF DEVICE SETTINGS PER THE POWER SYSTEMS STUDY SPECIFICATION SHALL BE PERFORMED BY THE SAME INDEPENDENT TESTING AGENCY. THE GROUND FAULT TEST RESULTS SHALL BE DELIVERED TO THE ENGINEER OF RECORD.
13. SEE POWER SYSTEMS STUDY SPECIFICATION, SHEET E-3.2, FOR ADDITIONAL REQUIREMENTS. ALL REQUIRED POWER SYSTEMS STUDIES MUST BE COMPLETED AND SUBMITTED WITH SWITCHGEAR SUBMITTAL. FAILURE TO DO SO WILL PREVENT THE ENGINEER FROM EFFECTIVELY EVALUATING THE SUBMITTAL AND SHALL RESULT IN REJECTION OF THE SWITCHGEAR SUBMITTAL AS INCOMPLETE.

GENERAL FEEDER SCHEDULE NOTES:

1. ALL FEEDERS SHOWN, UNLESS SPECIFICALLY NOTED OTHERWISE, ARE PRESUMED TO BE ROUTED IN METAL RACEWAYS. IF P.V.C. CONDUITS ARE UTILIZED, THE CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND PER NEC, OR CEC WHERE ADOPTED, TABLE 250.122 OR, WHERE REQUIRED, PROVIDE A MAIN BONDING JUMPER PER TABLE 250.66 AND INCREASE THE CONDUIT SIZE ACCORDINGLY.
2. LOADS INDICATED WITH " ( ) " REPRESENT WORST CASE LOAD IN AMPS.
3. DISTANCE SHOWN IS FOR DESIGN PURPOSES ONLY. IT IS NOT A MATERIAL TAKEOFF.
4. VOLTAGE DROP VALUE INDICATED IS AT THE END OF THE FEEDER.
5. AVAILABLE FAULT CURRENT VALUE AT THE END OF THE FEEDER INDICATED. CALCULATIONS ARE BASED UPON INITIAL VALUES RECEIVED FROM THE SERVING UTILITY AND THE LENGTH AND IMPEDANCE OF THE FEEDER.

SPECIFIC SINGLE LINE NOTES:

1. SEE MAIN SYSTEM GROUNDING DETAIL OR FEEDER TO REMOTE BUILDING / STRUCTURE GROUNDING DETAIL, THIS SHEET, FOR MORE INFORMATION.
2. BUSSING SHALL BE PROVIDED FOR FUTURE BUS EXTENSION TO FUTURE DISTRIBUTION SYSTEM.
3. PROVIDE (1) 4" C.O. FOR EVERY 800 AMPS OF SERVICE SIZE (MINIMUM OF ONE) STUBBED OUTSIDE THE BUILDING TO THE NEAREST PLANTER AREA. CAP AND MARK.
4. PROVIDE (4) 1" C.O. STUBBED OUTSIDE THE BUILDING TO THE NEAREST PLANTER AREA. CAP AND MARK.
5. PROVIDE CIRCUIT BREAKER PER CEC 690.64 AND 705.12. SEE PV SINGLE LINE DIAGRAM, SHEET PV-3.2 FOR ADDITIONAL INFORMATION.
6. ADDITIVE ALTERNATE #3. SEE PV SYSTEM DRAWINGS / SPECIFICATIONS FOR MORE INFORMATION.
7. PROVIDE CIRCUIT BREAKER TESTED/LISTED FOR BACK FEED OPERATION PER CEC WHERE ADOPTED, 690.59 AND 705.12.

LOAD CALCULATIONS:

MSB-1 =	57.6KVA
MSB-2 =	6.7KVA
MSB-3 =	9.6KVA
MSB-4 =	60.7KVA
MSB-5 =	83.2KVA
MSB-6 =	24.3KVA
TOTAL LOAD =	242.1KVA = 672.5A AT 208V, 3Ø

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Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER
RAYMOND P. SPRATLEN
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SINGLE LINE DIAGRAM

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E3.0

Login Name: LRF270291
Plot Date: October 06, 2025 - 2:58 pm
File Name: P:\2021\B2305166.000 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E3.0.dwg
XREFs: x-Civil_Title Block

PANEL PA

MOUNTING: SURFACE | DOUBLE LUG: NO | VOLTS: 120/208 | MAIN: 225A-3P
NEMA 3R: NO | 200% NEUTRAL: NO | PHASE: 3 | BUS: 225A
FEED THRU: NO | I/G BUS: NO | WIRE: 4 | A.I.C.: 22,000

NOTES	LOCATION	A	B	C	LTG	CONV	KIT	RECP	MISC	BKR	CIRC		CIRC	BKR	MISC	RECP	KIT	CONV	LTG	A	B	C	LOCATION	NOTES
	BASEMENT RM 00	1080			X					20/1	1	2	20/1		X				300				SECURITY PNL RM 105	
	RMS 112/113,1/114		720		X					20/1	3	4	20/1			X				1200			KITCHEN 118 - REFRIG	
	RMS 112/113/115/116			900	X					20/1	5	6	20/1			X					1200		KITCHEN 118 - REFRIG	
	AUDITORIUM 110	720			X					20/1	7	8	20/1			X			360				KITCHEN 118	
	AUDITORIUM 110/EXTR		1080		X					20/1	9	10	20/1			X				360			KITCHEN 118	
	RMS 103/119/120/EXT			1080	X					20/1	11	12	20/1			X					180		KITCHEN 118 RANGE	
	RMS 101/119/120/EXT	1080			X					20/1	13	14	20/1						250				OFFICE 105 FACP	A,E
	OFFICE 105		720		X					20/1	15	16	20/1										SPARE	
	OFFICE 105			720	X					20/1	17	18	20/1								1200		WHEELCHAIR LIFT	
	OFFICE 105 DATA CAB	1500				X				20/1	19	20	20/1						540				R HVAC 203, STOR. 204	
	RMS 101/103/106/107		900		X					20/1	21	22	20/1							540			R STOR. 201, STOR. 202	
	RMS 103/104/109			900	X					20/1	23	24	20/1								540		R STOR. 201, STOR. 202	
	AUTOMATIC DOORS	750							X	20/1	25	26	20/1	X					600				AUDITORIUM/MMOTOR SHADES	
	SPARE									20/1	27	28	20/1	X						400			AUDITORIUM/MMOTOR SHADES	
	SPARE									20/1	29	30	20/1										SPARE	
	SPARE									20/1	31	32	20/1										SPARE	
	SPARE									20/1	33	34	20/1										SPARE	
	SPARE									20/1	35	36	20/1										SPARE	
	SPACE										37	38											SPACE	
	SPACE										39	40											SPACE	
	SPACE										41	42											SPACE	

A= 7180 VA | B= 5920 VA | C= 6720 VA
PHASE A LCL= 0 VA | PHASE B LCL= 0 VA | PHASE C LCL= 0 VA
PHASE A W/LCL= 7180 VA | PHASE B W/LCL= 5920 VA | PHASE C W/LCL= 6720 VA
TOTAL VA= 19820 | TOTAL LCL= 0 | TOTAL VA W/LCL= 19820
AMPS= **55** | HIGH PHASE AMPS= **60**

PANEL PB

MOUNTING: SURFACE | DOUBLE LUG: NO | VOLTS: 120/208 | MAIN: 225A-3P
NEMA 3R: NO | 200% NEUTRAL: NO | PHASE: 3 | BUS: 225A
FEED THRU: NO | I/G BUS: NO | WIRE: 4 | A.I.C.: 22,000

NOTES	LOCATION	A	B	C	LTG	CONV	KIT	RECP	MISC	BKR	CIRC		CIRC	BKR	MISC	RECP	KIT	CONV	LTG	A	B	C	LOCATION	NOTES
	BASEMENT LEVEL LTG	396			X					20/1	1	2	20/1						429				LTG EXTERIOR	
	LTG RM 111,113-118		827		X					20/1	3	4	20/1										SPARE	
	LTG RM 101-109,120			1113	X					20/1	5	6	20/1										SPARE	
	LTG AUDITORIUM 110	1380			X					20/1	7	8	20/1										SPARE	
	LTG AUDITORIUM 110		1380		X					20/1	9	10	20/1										SPARE	
	LTG RM 112,203,204			900	X					20/1	11	12	20/1										SPARE	
	LTG RM 201, 202	652			X					20/1	13	14	20/1										SPARE	
	LTG PARKING LOT		750		X					20/1	15	16	20/1										SPARE	
	LTG PARKING LOT			750	X					20/1	17	18	20/1										SPARE	
	LTG PARKING LOT	440			X					20/1	19	20	20/1										SPARE	
	SITE SIGNAGE		150		X					20/1	21	22											SPACE	
	STAGE LTG			450	X					20/1	23	24											SPACE	
	SPACE										25	26											SPACE	
	SPACE										27	28											SPACE	
	SPACE										29	30											SPACE	
	SPACE										31	32											SPACE	
	SPACE										33	34											SPACE	
	SPACE										35	36											SPACE	
	SPACE										37	38											SPACE	
	SPACE										39	40											SPACE	
	SPACE										41	42											SPACE	

A= 3297 VA | B= 3107 VA | C= 3213 VA
PHASE A LCL= 0 VA | PHASE B LCL= 0 VA | PHASE C LCL= 0 VA
PHASE A W/LCL= 3297 VA | PHASE B W/LCL= 3107 VA | PHASE C W/LCL= 3213 VA
TOTAL VA= 9617 | TOTAL LCL= 0 | TOTAL VA W/LCL= 9617
AMPS= **27** | HIGH PHASE AMPS= **27**

PANEL PC

MOUNTING: SURFACE | DOUBLE LUG: NO | VOLTS: 120/208 | MAIN: 225A-3P
NEMA 3R: NO | 200% NEUTRAL: NO | PHASE: 3 | BUS: 225A
FEED THRU: NO | I/G BUS: NO | WIRE: 4 | A.I.C.: 22,000

NOTES	LOCATION	A	B	C	LTG	CONV	KIT	RECP	MISC	BKR	CIRC		CIRC	BKR	MISC	RECP	KIT	CONV	LTG	A	B	C	LOCATION	NOTES
	FC-1	716							X	15/2	1	2	15/2	X					716			FC-4	
	-		716							-	3	4	-							716		-	
	FC-1 HEATER			4066					X	50/2	5	6	50/2	X							4066	FC-4 HEATER	
	-	4066								-	7	8	-						4066			-	
	FC-2		716						X	15/2	9	10	15/2	X						716		FC-5	
	-			716						-	11	12	-								716	-	
	FC-2 HEATER	4066							X	50/2	13	14	50/2	X					4066			FC-5 HEATER	
	-		4066							-	15	16	-							4066		-	
	FC-3			716					X	15/2	17	18	15/2	X							716	FC-6	
	-	716								-	19	20	-						716			-	
	FC-3 HEATER		4066						X	50/2	21	22	50/2	X						4066		FC-6 HEATER	
	-			4066						-	23	24	-								4066	-	
	EF-2	173							X	15/1	25	26	15/1	X					164			AUDITORUM FANS	
A	WH-1		1500						X	25/1	27	28	20/1									SPARE	
-	-			1500						-	29	30	20/1									SPARE	
	SPARE									20/1	31	32	20/1									SPARE	
	SPARE									20/1	33	34	20/1									SPARE	
	SAPCE										35	36										SPACE	
	SPACE										37	38										SPACE	
	SPACE										39	40										SPACE	
	SPACE										41	42										SPACE	

A= 19464 VA | B= 20628 VA | C= 20628 VA
PHASE A LCL= 0 VA | PHASE B LCL= 0 VA | PHASE C LCL= 0 VA
PHASE A W/LCL= 19464 VA | PHASE B W/LCL= 20628 VA | PHASE C W/LCL= 20628 VA
TOTAL VA= 60720 | TOTAL LCL= 0 | TOTAL VA W/LCL= 60720
AMPS= **169** | HIGH PHASE AMPS= **172**

AS-BUILT PANEL DIRECTORY NOTE:

BRANCH CIRCUIT LOCATIONS NOTED WITH "(E)" INDICATE EXISTING CIRCUIT(S). THE IDENTITIES OF THESE CIRCUITS ARE BASED ON EXISTING PANEL DIRECTORIES AND/OR LIMITED AS-BUILT INFORMATION. CONTRACTOR SHALL FIELD VERIFY EACH BRANCH CIRCUIT AND PROVIDE COMPLETE, TYPED AS-BUILT PANEL DIRECTORIES AS REQUIRED THAT DISTINGUISH EACH CIRCUIT PER NEC, OR CEC WHERE ADOPTED, ART 408.1 AND 408.4. COMPLETED DIRECTORIES SHALL BE SUBMITTED TO THE ELECTRICAL INSPECTOR PRIOR TO FINAL ELECTRICAL INSPECTION. INCLUDE ALL COSTS IN BID.

PANEL PD

MOUNTING: SURFACE | DOUBLE LUG: NO | VOLTS: 120/208 | MAIN: 400A-3P
NEMA 3R: NO | 200% NEUTRAL: NO | PHASE: 3 | BUS: 400A
FEED THRU: NO | I/G BUS: NO | WIRE: 4 | A.I.C.: 22,000

NOTES	LOCATION	A	B	C	LTG	CONV	KIT	RECP	MISC	BKR	CIRC		CIRC	BKR	MISC	RECP	KIT	CONV	LTG	A	B	C	LOCATION	NOTES
	EF-1	370							X	15/3	1	2	35/2	X					2421			HP-1	
	-		370							-	3	4	-							2421		-	
	-			370						-	5	6	35/2	X							2421	HP-2	
	EF-3	180							X	15/1	7	8	-						2421			-	
	FC-7		510						X	15/2	9	10	35/2	X						2421		HP-3	
	-			510						-	11	12	-								2421	-	
	HP-7	1373							X	20/2	13	14	35/2	X					2421			HP-4	
	-		1373							-	15	16	-							2421		-	
	RTU-1			4035					X	45/3	17	18	35/2	X							2421	HP-5	
	-	4035								-	19	20	-						2421			-	
	-		4035							-	21	22	35/2	X						2421		HP-6	
	RTU-2			5764					X	60/3	23	24	-								2421	-	
	-	5764								-	25	26	20/1		X				540			ROOF RECEPTACLES	
	-		5764							-	27	28	20/1							540		LOW ROOF RECEPTACLES	
	RTU-3			5764					X	60/3	29	30	15/1	X					173			EF-2	
	-	5764								-	31	32	20/1									SPARE	
	-		5764							-	33	34	20/1									SPARE	
	MAU-1			375					X	15/3	35	36	20/1									SPARE	
	-	375								-	37	38										SPACE	
	-		375							-	39	40										SPACE	
	SPARE									20/1	41	42										SPACE	

A= 28085 VA | B= 28415 VA | C= 26675 VA
PHASE A LCL= 0 VA | PHASE B LCL= 0 VA | PHASE C LCL= 0 VA
PHASE A W/LCL= 28085 VA | PHASE B W/LCL= 28415 VA | PHASE C W/LCL= 26675 VA
TOTAL VA= 83175 | TOTAL LCL= 0 | TOTAL VA W/LCL= 83175
AMPS= **231** | HIGH PHASE AMPS= **237**

PANEL PV

MOUNTING: SURFACE | DOUBLE LUG: NO | VOLTS: 120/208 | MAIN: M.L.O.
NEMA 3R: YES | 200% NEUTRAL: NO | PHASE: 3 | BUS: 225A
FEED THRU: NO | I/G BUS: NO | WIRE: 4 | A.I.C.: 42,000

NOTES	LOCATION	A	B	C	LTG	CONV	KIT	RECP	MISC	BKR	CIRC		CIRC	BKR	MISC	RECP	KIT	CONV	LTG	A	B	C	LOCATION	NOTES
	EV CHARGER	3600								40/2	1	2	40/2						3600			EV CHARGER	
	-		3600							-	3	4	-							3600		-	
	EV CHARGER			3600						40/2	5	6	40/2								3600	EV CHARGER	
	-	3600								-	7	8	-						3600			-	
	EV CHARGER		3600							40/2	9	10	40/2							3600		EV CHARGER(FUTURE)	
	-			3600						-	11	12	-								3600	-	
	EV CHARGER	3600								40/2	13	14	40/2						3600			EV CHARGER(FUTURE)	
	-		3600							-	15	16	-							3600		-	
	SPACE										17	18										SPACE	
	SPACE										19	20										SPACE	
	SPACE										21	22										SPACE	
	SPACE										23	24										SPACE	

A= 21600 VA | B= 21600 VA | C= 14400 VA
PHASE A LCL= 0 VA | PHASE B LCL= 0 VA | PHASE C LCL= 0 VA
PHASE A W/LCL= 21600 VA | PHASE B W/LCL= 21600 VA | PHASE C W/LCL= 14400 VA
TOTAL VA= 57600 | TOTAL LCL= 0 | TOTAL VA W/LCL= 57600
AMPS= **160** | HIGH PHASE AMPS= **180**

PANEL KA

MOUNTING: SURFACE | DOUBLE LUG: NO | VOLTS: 120/208 | MAIN: 150A-3P
NEMA 3R: NO | 200% NEUTRAL: NO | PHASE: 3 | BUS: 225A
FEED THRU: NO | I/G BUS: NO | WIRE: 4 | A.I.C.: 10,000

NOTES	LOCATION	A	B	C	LTG	CONV	KIT	RECP	MISC	BKR	CIRC		CIRC	BKR	MISC	RECP	KIT	CONV	LTG	A	B	C	LOCATION	NOTES
	#1 ANSUL SYSTEM	100				1					20/1	1	2	20/3			1			1200			#9 STAND MIXER	
	#4 FRYDUMP STATION		756			1					20/1	3	4	--			1				1200		-----	
	#5 COMBI OVEN			1500		1					20/1	5	6	--			1					1200	-----	
	#8 MEAT SLICER	1130				1					20/1	7	8	20/2			1			1477			#16 ICE MAKER	
	#12 DISHWASER		2052			1					20/1	9	10	--			1				1477		-----	
	SPARE										20/1	11	12	20/1			1					1140	#17 FREEZER	
	#20 REFRIGERATOR	648				1					20/1	13	14	20/3			1			312			#21 FOOD PROCESSOR	
	#22 ICE/SODA DISPENSER		360			1					20/1	15	16	--			1				312		-----	
	#24 ICE CREAM MACHINE			1498		1					20/2	17	18	--			1					312	-----	
	-----	1498				1					--	19	20	60/3			1			5760			#3 FRYER	
	#1 HOOD		250			1					20/1	21	22	--			1				5760		-----	
	#26 WARMING STATION			1200		1					20/1	23	24	--			1					5760	-----	
	#19 DELI STATION	460				1					20/1	25	26	20/1						540			CONV. RECEPTACLES	
	CONV. RECEPTACLES		720								20/1	27	28	20/1							540		CONV. RECEPTACLES	
	CONV. RECEPTACLES			720							20/1	29	30	20/1									SPARE	
	CONV. RECEPTACLES	540									20/1	31	32	20/1									SPARE	
	SPARE										20/1	33	34	20/1									SPARE	
	SPARE										20/1	35	36	20/1									SPARE	
	SPACE											37	38										SPACE	
	SPACE											39	40										SPACE	
	SPACE											41	42										SPACE	

A= 13665 VA | B= 13427 VA | C= 13330 VA
PHASE A LCL= 0 VA | PHASE B LCL= 0 VA | PHASE C LCL= 0 VA
PHASE A W/LCL= 13665 VA | PHASE B W/LCL= 13427 VA | PHASE C W/LCL= 13330 VA
TOTAL VA= 40422 | TOTAL LCL= 0 | TOTAL VA W/LCL= 40422
AMPS= **112** | HIGH PHASE AMPS= **114**

KITCHEN DEMAND PER NEC 220-56: 37362 VA X 0.65 = 24285 VA
NON-KITCHEN LOAD: 3060 VA
TOTAL: 27345 VA = 76 A AT 120/208V-3PH-4W

GENERAL PANEL SCHEDULE NOTES:

1. WHERE PANEL IS INDICATED TO INCLUDE FEED THRU LUGS, PROVIDE FEED THROUGH LUGS AT THE OPPOSITE END OF THE PANELBOARD FROM THE PANELBOARD MAIN LUGS.
2. WHERE PANEL IS INDICATED TO INCLUDE DOUBLE LUGS, PROVIDE A DOUBLE LUG KIT AT THE SAME END OF THE PANELBOARD AS THE PANELBOARD MAIN LUGS.
3. WHERE PANEL IS INDICATED TO INCLUDE 200% NEUTRAL, PROVIDE PANELBOARDS UL LISTED AS HAVING NEUTRAL BUSSES RATED TO CARRY 200 PERCENT OF THE CURRENT CARRYING CAPACITY OF THE PHASE BUSSING. OTHERWISE, NEUTRAL BUSSING TO BE FULL SIZE AND RECTANGULAR.
4. WHERE PANEL IS INDICATED TO INCLUDE AN I/G BUS, PROVIDE PANELBOARDS WITH AN ISOLATED GROUND BUS, DRILLED AND TAPPED FOR NUMBER OF ISOLATED GROUND CONDUCTORS SHOWN, AS WELL AS FOR ALL SPARES AND SPACES SHOWN ON THE PANELBOARD.
5. WHERE PANEL CIRCUIT BREAKER RATING IS SHOWN AS SERIES RATED, PROVIDE CIRCUIT BREAKERS IN PANELBOARD WHICH ARE SERIES RATED WITH THE UPSTREAM SYSTEM FOR THE AVAILABLE FAULT CURRENT. THE PANELBOARD SHALL BE MARKED WITH THE SERIES CONNECTED RATINGS, AS WELL AS ALL MARKING AS REQUIRED BY THE NEC, OR CEC WHERE ADOPTED, 240.86(B).
6. WHERE PANEL IS INDICATED AS RECESSED OR FLUSH MOUNTED, PROVIDE SPARE CONDUITS STUBBED UP INTO THE ACCESSIBLE CEILING SPACE. PROVIDE ONE (1) 3/4" CONDUIT ONLY FOR EACH THREE (3) SPARES OR SPACES, MINIMUM OF TWO (2). EACH CONDUIT SHALL BE TAGGED, CAPPED AND MARKED FOR FUTURE USE.
7. ALL BUSSING SHALL BE TIN PLATED ALUMINUM.
8. ALL CIRCUIT BREAKERS USED AS SWITCHES SHALL BE UL LISTED AND LABELED "SWD" FOR SWITCHING DUTY.
9. PROVIDE BREAKER INTERLOCK WITH ADJACENT BREAKER(S) FOR ANY MULTI-WIRE BRANCH CIRCUIT. BREAKER INTERLOCK GROUPING SHALL BE BY BRANCH CIRCUIT GROUP (i.e. MULTIPLE CIRCUITS SHARING A COMMON NEUTRAL (NEC, OR CEC WHERE ADOPTED, 210.4(B),) COMMON YOKE (NEC, OR CEC WHERE ADOPTED, 210.7), OR FURNITURE SYSTEM NEC OR CEC WHERE ADOPTED, 605.5 AND 605.7). WHERE AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER INTERLOCKS TO EXISTING MULTI-WIRE BRANCH CIRCUITS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.
10. PROVIDE BREAKER LOCK OFF DEVICE ON ANY CIRCUIT BREAKER FEEDING A TRANSFORMER AS REQUIRED, PER NEC, OR CEC WHERE ADOPTED, 450.14. WHERE AN EXISTING PANEL IS BEING ALTERED OR MODIFIED IN ANY WAY, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO ADD BREAKER LOCK-OFF DEVICES TO EXISTING TRANSFORMER CIRCUIT BREAKERS BASED ON CONTRACTOR'S INVESTIGATION OF EXISTING CONDITIONS.
11. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND SHALL BE SUITABLE FOR 75 DEGREE AMPACITY CONDUCTORS.
12. PANELS SHALL BE OF THE DEAD FRONT SAFETY TYPE. PANELS SHALL BE MINIMUM 20" WIDE AND 5-3/4" DEEP UNLESS OTHERWISE NOTED ON PLAN.
13. COORDINATE WITH APPLICABLE TRADE TO INSURE RECESSED MOUNTED PANELBOARDS WILL SEAT FLUSH IN THE WALLS PROVIDED. PANEL TRIMS SHALL HAVE CONCEALED DOORS AND FASTENERS WITH FLUSH TYPE COMBINATION LOCK AND CATCH, TWO MILLED TYPE KEYS SUPPLIED WITH EACH PANEL. ALL LOCKS SHALL BE KEYED ALIKE AND EACH DOOR SHALL HAVE A PLASTIC COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OF ALL CIRCUIT AND PANEL NUMBERS FOR BRANCH CIRCUIT PANELBOARDS.
14. UPON PROJECT COMPLETION, CONTRACTOR SHALL INSTALL TYPED AS-BUILT PANEL DIRECTORIES IN EACH PANEL WITHIN THE MFGR-PROVIDED DIRECTORY HOLDER. THE DIRECTORY SHALL CLEARLY IDENTIFY EACH CIRCUIT TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. EACH CIRCUIT IDENTITY SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS PER NEC, OR CEC WHERE ADOPTED, ART 408.1 AND 408.4. HANDWRITTEN DIRECTORIES ARE UNACCEPTABLE. COPIES OF AS-BUILT PANEL SCHEDULES SHALL BE PLACED IN PANEL DIRECTORIES. E.C. TO INCLUDE ALL COSTS REQUIRED FOR LARGER-THAN-STANDARD CUSTOM PANEL DIRECTORY HOLDERS TO ACCOMMODATE COPIES OF AS-BUILT PANEL SCHEDULES.
15. PANELBOARDS SHALL BE MANUFACTURED BY G.E., CUTLER-HAMMER, SIEMENS, OR SQUARE "D". FUSED PANEL BOARDS SHALL BE BY COOPER BUSSMANN.
16. PROVIDE SHOP DRAWING SUBMITTAL PER THE ELECTRICAL SPECIFICATION SUBMITTAL REQUIREMENTS FOR EACH PANEL DEPICTING CONFORMANCE WITH THE ABOVE NOTES AND SCHEDULES.

SPECIFIC PANEL SCHEDULE NOTES:

"A" PROVIDE LOCK-ON DEVICE.
"B" PROVIDE PERMANENT LOCK-OFF DEVICE THAT SHALL REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED, PER NEC, OR CEC WHERE ADOPTED, SECTION 110.25.
"C" PROVIDE SHUNT TRIP DEVICE.
"D" PROVIDE GFCI TYPE DEVICE.
"E" PROVIDE A RED CIRCUIT BREAKER.
"F" PROVIDE A NEW BREAKER TO MATCH THE EXISTING IN PANEL.
"G" EXISTING BREAKER WITH NEW LOAD.
"H" PROVIDE AFCI TYPE DEVICE COMPLYING WITH NEC, OR CEC WHERE ADOPTED, 210.12(A),(B),(C).

PANEL SCHEDULE INDEX

PA	PD	KA
PB	EV	-
PC	-	

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RAYMOND P. SHAFFER No. E15610 12/31/2025 ELECTRICAL ENGINEER STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PANEL
SCHEDULES

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E3.1

Login Name: JERC070201
Prot. Date: October 06, 2025 - 3:00 pm
File Name: P:\2021\B2305166.000 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E3-1dwg
XREFs: x-Arch_Title Block

POWER SYSTEMS STUDY SPECIFICATIONS:

THE CONTRACTOR SHALL PROVIDE, WITH THE ASSISTANCE OF THE SWITCHGEAR MANUFACTURER, POWER SYSTEMS STUDIES CONSISTING OF A SHORT CIRCUIT STUDY, A COORDINATION STUDY, AND AN ARC FLASH STUDY - ALL PER LATEST PUBLISHED EDITIONS OF THE FOLLOWING STANDARDS: ANSI C37, IEEE 141, IEEE 242, IEEE 399 - BROWN BOOK, NFPA 70E AND IEEE STD 1584/1584a. ADDITIONALLY:

a. CONTRACTOR SHALL PERFORM STUDY USING SKM "SYSTEMS ANALYSIS POWER TOOLS FOR WINDOWS" COMPUTER SOFTWARE PROGRAM - LATEST AVAILABLE VERSION OR EQUAL BY ETAP.

b. CONTRACTOR SHALL FURNISH/OBTAIN ALL DATA REQUIRED FOR POWER SYSTEMS STUDIES. DATA COLLECTION EFFORT SHALL BE PERFORMED IN AN EXPEDITIOUS MANNER AND AS SOON AS POSSIBLE AFTER CONTRACT AWARD TO ENSURE STUDY COMPLETION FOR SUBMISSION AS PART OF THE ELECTRICAL DISTRIBUTION EQUIPMENT SHOP DRAWINGS AND SUBMITTALS. DATA COLLECTION EFFORTS MAY INCLUDE, BUT ARE NOT LIMITED TO, CALCULATED UTILITY COMPANY FAULT VALUES, SERVICE TRANSFORMER PRIMARY PROTECTIVE DEVICE AND APPLIED VOLTAGE, ELECTRICAL CHARACTERISTICS AND FAULT CONTRIBUTION FROM EXISTING MOTORS/GENERATORS, EXISTING CONDUCTOR QUANTITIES, SIZE AND LENGTHS, EXISTING/ NEW OVERCURRENT PROTECTIVE DEVICE SPECIFICATIONS AND PART NUMBERS, TRANSFER SWITCH CHARACTERISTICS AND SHORT CIRCUIT CURRENT RATINGS IN ADDITION TO ANY OTHER DATA REQUIRED TO PERFORM COMPREHENSIVE POWER SYSTEM STUDIES. RANGES OF FAULT CURRENT VALUES OR GENERIC FAULT CURRENT VALUES PROVIDED BY THE UTILITY COMPANY ARE UNACCEPTABLE AS ARE ANY FAULT CURRENT VALUES SHOWN ON THE SINGLE LINE DIAGRAM OR FEEDER SCHEDULE.

DATA GATHERING SHALL BE CONDUCTED IN A SAFE MANNER WITH 1) EQUIPMENT COMPLETELY DE-ENGERIZED IN COORDINATION WITH THE OWNER DURING A SCHEDULED POWER SHUTDOWN OR 2) UTILIZING A LICENSED ELECTRICIAN WEARING APPROPRIATE PERSONNEL PROTECTIVE EQUIPMENT PER NFPA 70E STANDARDS.

CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING UTILITY DATA FROM THE UTILITY COMPANY - INCLUDE ALL COSTS IN BASE BID FOR ANY UTILITY COMPANY FEES FOR PROVIDING NECESSARY DATA. WHERE THE PROJECT IS LOCATED ON A CAMPUS WITH AN OWNER-FURNISHED ELECTRICAL DISTRIBUTION SYSTEM, CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN SUFFICIENT ELECTRICAL SYSTEM DATA TO DEMONSTRATE COORDINATION OF THE PROJECT'S ELECTRICAL SYSTEM WITH CAMPUS DISTRIBUTION SYSTEM. THIS DATA MAY BE AVAILABLE IN THE FORM OF AN OWNER-PROVIDED CAMPUS POWER SYSTEM STUDY. WHERE SUCH STUDIES ARE NOT AVAILABLE, THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO PERFORM NECESSARY FIELD INVESTIGATION OF CAMPUS DISTRIBUTION SYSTEM INCLUDING CAMPUS SERVICE ENTRANCE AND SERVING UTILITY DATA AS REQUIRED TO DEMONSTRATE COORDINATION OF THE PROJECT'S ELECTRICAL SYSTEM WITH CAMPUS DISTRIBUTION SYSTEM. INCLUDE ALL COSTS FOR RECOMMENDING ADJUSTMENTS TO EXISTING CAMPUS DISTRIBUTION SYSTEM SETTINGS DISCOVERED TO BE INCORRECT. OWNER SHALL BE RESPONSIBLE TO UNDERTAKE ANY PHYSICAL ADJUSTMENTS TO EXISTING MEDIUM OR HIGH VOLTAGE DISTRIBUTION EQUIPMENT WITH THE EXCEPTION OF FUSES, RELAYS OR OTHER CIRCUIT PROTECTIVE DEVICES LOCATED IN EXISTING DISTRIBUTION EQUIPMENT THAT ARE DEDICATED TO SERVE ONLY THIS PROJECT'S ELECTRICAL SYSTEM.

CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING EQUIPMENT SCCR RATING FROM ALL OTHER PROJECT TRADES AND FOR ANY OWNER-FURNISHED OR TENANT-FURNISHED EQUIPMENT CONNECTED TO THE ELECTRICAL SYSTEM IN ORDER TO VALIDATE AVAILABLE FAULT CURRENT AT THE EQUIPMENT CONNECTIONS IS LESS THAN THE RESPECTIVE EQUIPMENT SCCR.

c. THE SHORT CIRCUIT STUDY SHALL INCLUDE CALCULATED SHORT-CIRCUIT MOMENTARY AND INTERRUPTING DUTIES FOR 3-PHASE BOLTED FAULTS AND LINE-TO-GROUND FAULTS THROUGHOUT THE SINGLE LINE TO INCLUDE UTILITY SERVICE SUPPLY, GENERATORS AND TRANSFER SWITCHES, SUBSTATIONS, SWITCHGEAR, PANEL BOARDS ETC. STUDY SHALL EVALUATE ALL ELECTRICAL DISTRIBUTION EQUIPMENT AND PROTECTIVE DEVICES AGAINST SHORT CIRCUIT CURRENT RATINGS. THIS STUDY EFFORT SHALL EXTEND TO SCCR RATINGS OF EQUIPMENT, EQUIPMENT CONTROL PANELS, VARIABLE FREQUENCY DRIVES ETC PROVIDED BY OTHER TRADES THAT ARE CONNECTED TO THE ELECTRICAL SYSTEM. NOTE ANY EXISTING CIRCUIT PROTECTIVE DEVICE(S)/ELECTRICAL DISTRIBUTION THAT IS INADEQUATELY RATED TO WITHSTAND CALCULATED FAULT VALUES OR WHERE EQUIPMENT SCCR IS EXCEEDED. WHERE THE UTILITY COMPANY PROVIDES MULTIPLE FAULT CURRENT VALUES REFLECTING INITIAL TRANSFORMER CAPACITY AND WORST CASE TRANSFORMER CAPACITY, THE CONTRACTOR SHALL PROVIDE SHORT CIRCUIT ANALYSIS PRIMARILY BASED ON WORST CASE TRANSFORMER CAPACITY. ALL SERVICE EQUIPMENT SHALL BE LABELED WITH THE MAXIMUM AVAILABLE FAULT CURRENT AND FAULT CURRENT CALCULATION DATE PER NEC (OR CEC WHERE ADOPTED) 110.24. SEE LABELING SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

d. THE COORDINATION STUDY SHALL INCLUDE TIME-CURRENT CURVES (TCC) FOR OVER CURRENT PROTECTIVE DEVICES (OCPDs) ALONG WITH TRANSFORMER FULL-LOAD CURRENT, INRUSH CURRENT, AND THROUGH-FAULT PROTECTION CURVES, CONDUCTOR DAMAGE CURVES, GROUND FAULT PROTECTIVE DEVICE CURVES, MOTOR STARTING CURVE(S)/DAMAGE POINT(S), GENERATOR SHORT-CIRCUIT CURVE(S) /DAMAGE POINT(S) ETC. - CLEARLY IDENTIFIED AND PLOTTED ON LOG-LOG SCALE GRAPH(S). TCC GRAPH(S) SHALL INCLUDE A ONE-LINE DIAGRAM IDENTIFYING THE SPECIFIC PORTION COVERED BY THE GRAPH. DEMONSTRATE THAT ADEQUATE CLEARING TIME/SELECTIVE OPERATION EXISTS BETWEEN PROTECTIVE DEVICES WHILE PROVIDING PROPER SYSTEM PROTECTION & COORDINATION. STUDY SHALL INCLUDE ALL MAIN AND FEEDER OCPDs INCLUDING SECONDARY SIDE OF EACH TRANSFORMER DOWN TO BREAKERS IN PANEL BOARDS AND INDIVIDUAL BREAKERS IN DISTRIBUTION BOARDS. IN ALL CASES, SOLID STATE AND/OR ADJUSTABLE OCPDs SHALL BE ANALYZED WITH UPSTREAM AND DOWNSTREAM OCPDs AS REQUIRED TO ESTABLISH PROPER COORDINATION SETTINGS. SPECIAL EMPHASIS SHALL BE PLACED ON ANALYZING PORTIONS OF THE ELECTRICAL SYSTEM REQUIRING SELECTIVE COORDINATION WHICH INCLUDE, BUT ARE NOT LIMITED TO, NEC (OR CEC WHERE ADOPTED) ARTICLES 517, 620, 700, 701 & 708; ALONG WITH ANY ARTICLE 702 OPTIONAL STANDBY SYSTEMS SERVING SERVER ROOMS/DATA CENTERS OR OTHER AREAS REQUIRING HIGH AVAILABILITY/PROPER COORDINATION SUCH AS MANUFACTURING, CLEAN ROOM OR LAB FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE TO RECOMMEND SETTINGS OF ALL DEVICES, TO INCLUDE GROUND FAULT SETTINGS, TO ACHIEVE SYSTEM COORDINATION. THE CONTRACTOR SHALL FIELD ADJUST NEW AND EXISTING DEVICES ACCORDINGLY UTILIZING A QUALIFIED MANUFACTURER'S REPRESENTATIVE OR A THIRD-PARTY ELECTRICAL TESTING AGENCY.

e. THE ARC FLASH ANALYSIS SHALL BE BASED ON THE INCIDENT ENERGY ANALYSIS METHOD (NFPA 70E 130.5). THE ARC FLASH ANALYSIS SHALL DETERMINE THE FLASH BOUNDARY, THE WORKING DISTANCE, THE INCIDENT ENERGY AND MINIMUM ARC RATING OF CLOTHING(CAL/CM²) AT LOCATIONS IN THE ELECTRICAL SYSTEM WHERE WORK CAN OR MIGHT BE PERFORMED ON ENERGIZED COMPONENTS WHERE MULTIPLE SYSTEM CONFIGURATION SCENARIOS ARE POSSIBLE, THE CONFIGURATION WITH GREATEST INCIDENT ENERGY MUST BE SHOWN. DECREMENT FAULT CONTRIBUTIONS FROM MOTOR(S) AND GENERATOR(S) BASED ON INDUSTRY STANDARDS. THE CONTRACTOR SHALL MAKE RECOMMENDATIONS WITH REGARD TO SYSTEM ADJUSTMENTS OR OTHER MITIGATION MEASURES TO OPTIMIZE THE RESULTS OF THE STUDY AS IT RELATES TO SAFE AND RELIABLE ELECTRICAL SYSTEM OPERATION (E.G. OVERCURRENT DEVICE SETTINGS, WORKING DISTANCES, CURRENT LIMITING DEVICES). THIS INCLUDES MITIGATION, WHERE POSSIBLE, OF INCIDENT ENERGY LEVELS THAT EXCEED 40 CAL/CM². PERFORM ITERATIVE CALCULATIONS TO DEMONSTRATE EFFECTS OF OPENING PROTECTIVE DEVICES UTILIZING A VARIETY OF DIFFERENT SETTINGS TO BEST MITIGATE ARC FLASH ENERGY WHILE MAINTAINING AN ACCEPTABLE LEVEL OF SYSTEM COORDINATION. WHERE SUCH RECOMMENDATIONS COMPROMISE SELECTIVE COORDINATION SETTINGS, SO STATE IN THE ANALYSIS.

INCLUDE INCIDENT ENERGY/FLASH PROTECTION BOUNDARY CALCULATIONS FOR BOTH LINE/LOAD SIDE OF ALL SEPARATELY ENCLOSED MAIN CIRCUIT BREAKERS. ALL CALCULATIONS SHALL BE BASED ON ACTUAL OVERCURRENT DEVICE CLEARING TIMES.

f. BASED ON THE RESULTS OF THE ARC FLASH ANALYSIS, THE CONTRACTOR SHALL PRODUCE AND INSTALL A WARNING LABEL (ORANGE <40 CAL/CM2) OR DANGER LABEL (RED > 40 CAL/CM2) FOR EACH PIECE OF EQUIPMENT PER NEC (OR CEC WHERE ADOPTED) 110.16 AND IN ACCORDANCE WITH ANSI Z535.4-2007 OR LATEST PUBLISHED EDITION. THE LABEL MUST BE READABLE IN BOTH INDOOR AND OUTDOOR ENVIRONMENTS FOR AT LEAST 3 YEARS AND CONTAIN THE FOLLOWING INFORMATION: NOMINAL SYSTEM VOLTAGE, ARC HAZARD BOUNDARY (INCHES), WORKING DISTANCE (INCHES), AVAILABLE ARC FLASH INCIDENT ENERGY AT THE WORKING DISTANCE (CAL/CM²), MINIMUM ARC RATING OF CLOTHING, EQUIPMENT/BUS NAME, DATE PREPARED, SUPPLIER'S NAME AND ADDRESS. PROVIDE LABEL AS MANUFACTURED BY BRADY OR EQUAL. PRIOR TO PLACING ARC FLASH LABELS, CONTRACTOR SHALL SET ALL PROTECTIVE DEVICE SETTINGS PER THE APPROVED COORDINATION STUDY.

g. DURING THE CONSTRUCTION PHASE OF THE PROJECT, ALL GROUND FAULT RELAYS SHALL BE SET AT THE LOWEST AVAILABLE TIME DELAY AND PICK-UP SETTINGS.

h. POWER SYSTEMS STUDIES SHALL BE SUBMITTED AS PART OF THE OVERALL SWITCHGEAR SUBMITTAL. THE RESULTS OF THE POWER SYSTEMS STUDY SHALL BE PRESENTED IN A COMPREHENSIVE REPORT THAT INCLUDES:

- REPORT SUMMARY WITH ANALYSIS METHODOLOGY, FINDINGS AND RECOMMENDATIONS
- SUMMARY OF INPUT DATA FOR UTILITY SOURCE, EQUIPMENT AND CABLES
- AVAILABLE FAULT CURRENT AT EACH EQUIPMENT LOCATION WITH COMPARISON TO EQUIPMENT RATING
- OVERCURRENT DEVICE SETTINGS (E.G. PICK-UP, TIME DELAY, CURVE), "AS FOUND" AND "AS RECOMMENDED"
- OVERCURRENT DEVICE COORDINATION CURVES INCLUDING RELATED SECTION OF THE SINGLE-LINE DIAGRAM
- COMPLETE SYSTEM SINGLE-LINE DIAGRAM FOR THE SYSTEM ANALYZED
- INCIDENT ENERGY LEVEL (CAL/CM²) FOR EACH EQUIPMENT LOCATION, RECOMMENDED PPE AND SAMPLE ARC FLASH WARNING LABELS
- A DVD OR CD CONTAINING ELECTRONIC PROJECT FILES USED TO DEVELOP THE STUDY TO INCLUDE SKM OR ETAP PROJECT AND REFERENCE LIBRARY FILES. ALL FILES SHALL BE AVAILABLE FOR REVIEW AND/OR FUTURE MODIFICATION WITHOUT LIMITATION. LOCKING OR SECURING FILES BY OTHER MEANS IS NOT ACCEPTABLE. FAILURE TO SUBMIT COMPLETE STUDIES AND FULLY ACCESSIBLE FILES SHALL RESULT IN THE REJECTION OF THE ENTIRE SWITCHGEAR SUBMITTAL.

i. AS A PART OF A CLOSEOUT SUBMITTAL TO BE SUBMITTED TO THE ENGINEER PRIOR TO FINAL PROJECT CONSTRUCTION OBSERVATIONS, CONTRACTOR SHALL PROVIDE PHOTOS OF ALL ADJUSTABLE CIRCUIT BREAKERS DEPICTING THEIR FINAL SETTINGS BASED ON THE POWER SYSTEMS STUDY. SUBMITTAL SHALL BE ORGANIZED WITH OCPD IDENTIFICATION. OCPD PHOTO IMAGE AND RESPECTIVE POWER SYSTEM STUDY OCPD SETTING REQUIREMENTS TO ALLOW EFFICIENT CONFIRMATION OF RECORD SETTINGS. PLEASE NOTE THAT IMAGES MAY NEED TO BE TAKEN PRIOR TO INSTALLATION OF EQUIPMENT COVERS/EQUIPMENT ENERGIZATION SINCE OCPD SETTINGS MAY BE OBSTRUCTED BY EQUIPMENT COVERS.

j. THE STUDY SHALL INCLUDE ALL PORTIONS OF ELECTRICAL SINGLE LINE DIAGRAM TO INCLUDE UPSTREAM OR DOWNSTREAM ELEMENTS THAT MAY NOT BE SHOWN INCLUDING, BUT NOT LIMITED TO, UTILITY SOURCE CONTRIBUTION, RELEVANT PORTIONS OF THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM WITHIN A BUILDING AND/OR CAMPUS ELECTRICAL DISTRIBUTION SYSTEMS AS DESCRIBED ABOVE.

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PROJECT NAME

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1620 SOLANO ST.
CORNING, CA

SHEET TITLE

POWER
SYSTEMS STUDY

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

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LIGHTING FIXTURE SCHEDULE NOTES:

A. GENERAL NOTES:

1. THE LIGHTING FIXTURES, LAMPS, BALLASTS, POWER SUPPLIES, DRIVERS AND TRANSFORMERS FOR THIS PROJECT HAVE BEEN SPECIFIED TO ENSURE THAT SPECIFIC AESTHETIC AND PERFORMANCE REQUIREMENTS WILL BE SATISFIED. THESE PRODUCTS HAVE BEEN CAREFULLY RESEARCHED AND EACH SPECIFIED ITEM HAS UNIQUE QUALITIES WHICH WERE DETERMINED TO BE ESSENTIAL IN SATISFYING THE OWNER'S, ARCHITECT'S, ENGINEER'S AND LIGHTING CONSULTANT'S DESIGN CRITERIA.

2. CONTRACTOR SHALL PROVIDE ALL MATERIALS AS DETAILED ON DRAWINGS AND/OR SCHEDULES, AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING LIGHTING SYSTEM.

3. CONTRACTOR SHALL NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT OF ANY PROVISIONS OF THE SPECIFICATION THAT IS IN CONFLICT WITH LOCALLY ENFORCED CODES.

4. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY REQUIRED MODIFICATIONS THAT ARE NOT SHOWN ON THE DRAWINGS.

5. ALL ELECTRICAL MATERIAL SHALL BE IN NEW & UNDAMAGED CONDITION WHEN INSTALLED. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

6. ALL DIMENSIONS & MEASUREMENTS FOUND ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL VALIDATE ALL DIMENSIONS PRIOR TO ORDERING MATERIAL TO INCLUDE MAKING FIELD MEASUREMENTS BASED ON ACTUAL SITE CONDITIONS TO DEVELOP COMPLETE ORDERS AND INSTALL SYSTEMS PER DRAWINGS AND SPECIFICATIONS.

7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ASSOCIATED DEVICES AND EQUIPMENT.

8. PRIOR TO AIMING/ADJUSTING ACTIVITIES, COMMISSIONING OR PUNCHWALK COMMENCEMENT, CONTRACTOR SHALL PROPERLY TEST AND VERIFY ALL CIRCUITRY AND CONTROL WIRING AND IMPLEMENT ALL CONTROLS PROGRAMMING.

B. INSTALLATION:

1. LOCATIONS OF THE FIXTURES SHALL BE PER THE ARCHITECTURAL REFLECTED CEILING PLAN(S) AND SHALL BE COORDINATED AT TIME OF ROUGH IN. CONFLICTS BETWEEN THE ARCHITECTURAL REFLECTED CEILING PLAN(S) AND THE ELECTRICAL/LIGHTING DESIGN PLAN(S) SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO ORDERING FIXTURES.

2. LIGHTING DRAWINGS REPRESENT THE DESIGN INTENT OF THE EQUIPMENT, DEVICES, ETC. TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES AND ADDITIONAL HARDWARE AND DEVICES AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

3. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND INDIVIDUALLY SUPPORTED IN ACCORDANCE WITH APPLICABLE CODES. FIXTURES SHALL BE FURNISHED AND INSTALLED WITH ALL REQUIRED MOUNTING DEVICES, HARDWARE AND ACCESSORIES.

4. CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING HARDWARE IS COMPATIBLE WITH APPROVED MOUNTING CONDITIONS. MOUNTING CONDITIONS MUST ALLOW FOR AIMING AND ADJUSTING OF LIGHTING FIXTURES ON SITE.

5. CONTRACTOR TO INCLUDE AIMING/ADJUSTING LABOR AFTER DARK AS REQUIRED FOR ANY ADJUSTABLE LIGHTING FIXTURE AND FOR EACH INDIVIDUAL LIGHTING FIXTURE HEAD OR LAMP HOLDER IN A MULTI-FIXTURE/MULTI-LAMP ASSEMBLY. LIGHTING FIXTURES TO BE AIMED/ADJUSTED PER THE DIRECTION OF OWNER, ARCHITECT AND/OR LIGHTING CONSULTANT.

6. CONTRACTOR TO SUPPLY ADEQUATE SUPPORT INCLUDING LADDERS, LIFTS OR OTHER EQUIPMENT REQUIRED TO ACCESS LIGHTING FIXTURES AT THE TIME OF FOCUS, INCLUDING EVENING OR NIGHT WORK AS MAY BE REQUIRED DUE TO SCHEDULE CONFLICT OR DAYLIGHT IMPACT. AIMING/ADJUSTING LABOR SHALL BE PREPARED FOR WORK WITH COMMON HAND TOOLS TO MAKE ADJUSTMENTS AND MINOR REPAIRS DURING AIMING.

7. ALL COVE MOUNTED LIGHTING FIXTURES SHALL EXTEND THE FULL LENGTH OF THE COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF LIGHTING FIXTURES AS REQUIRED. PROVIDE COMPLETE MANUFACTURER SHOP DRAWINGS OF BUILT-IN COVE OR LINEAR LIGHTING SYSTEMS.

8. CONTRACTOR TO REPLACE ALL INOPERATIVE LAMPS, LED ARRAYS OR SYSTEMS AT THE END OF THE CONSTRUCTION PHASE PRIOR TO THE FOCUS AND PROGRAMMING PHASE AND AGAIN PRIOR TO OWNER OCCUPANCY OR PROJECT OPENING.

9. ALL POLE MOUNTED FIXTURES, POST MOUNTED FIXTURES AND BOLLARDS SHALL BE PROVIDED WITH A STRUCTURAL FOOTING AS DETAILED ELSEWHERE IN THE DRAWINGS. FOOTING SIZE TO BE PROVIDED BY STRUCTURAL ENGINEER. REFERENCE FIXTURE SCHEDULE AND DETAILS FOR MORE INFORMATION.

10. ALL EXIT SIGNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL FIRE PREVENTION CODE AUTHORITY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY HARDWARE SUCH THAT ALL EXIT SIGNS ARE INSTALLED IN AN APPROVED VISIBLE LOCATION. THE CONTRACTOR SHALL VERIFY CHEVRONS AND NUMBER OF FACES PER EXIT SIGN WITH ARCHITECTURAL REFLECTED CEILING PLAN(S). ANY DISCREPANCIES BETWEEN EXIT SIGNS DEPICTED ON ARCHITECTURAL AND ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.

C. SUBMITTALS AND SUBSTITUTIONS:

1. CONTRACTOR TO SUBMIT FOR APPROVAL ON THE PRODUCTS THEY INTEND TO FURNISH WITHIN TEN (10) DAYS OF AWARD OF CONTRACT. FAILURE TO SUBMIT WITHIN DEADLINE CONSTITUTES A GUARANTEE THAT ONLY THE BASE SPECIFIED PRODUCTS WILL BE SUPPLIED AND THAT NO OTHER PRODUCTS, WHETHER LISTED AS ALTERNATES OR NOT, WILL BE CONSIDERED.

2. CONTRACTOR TO PROVIDE A SUBMITTAL/SHOP DRAWING SUBMITTAL FOR EACH LIGHTING FIXTURE TYPE INCLUDING ACCESSORIES, BALLAST(S), POWER SUPPLIES, DRIVER(S) TRANSFORMER(S), AND INTEGRAL EMERGENCY BATTERIES AND TEST SWITCHES. ANY LIGHTING FIXTURE SUBMITTAL PROVIDED WITHOUT SPECIFIC LIGHTING FIXTURE'S ACCESSORIES, BALLAST, POWER SUPPLY, DRIVER, TRANSFORMER OR BATTERY INFORMATION SHALL BE REJECTED AS INCOMPLETE.

3. SUBSTITUTIONS OF THE SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED - UNLESS APPROVED AS STATED HEREIN. LIGHTING FIXTURE SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT, BY APPOINTMENT ONLY, AT LEAST TEN (10) WORKING DAYS PRIOR TO BID TIME. THE SUBMITTAL MATERIAL SHALL INCLUDE THE FOLLOWING ITEMS.

   a. A COMPLETE AND OPERATING SAMPLE, WIRED FOR 120V OPERATION, WITH LAMP, CORD AND PLUG.

   b. A COMPLETE PHOTOMETRIC REPORT, FOR THE PROPOSED SUBSTITUTE PRODUCT, USING THE SPECIFIED LAMP OR LED TYPE AND WATTAGE, INCLUDING TABULATED CANDLEPOWER VALUES, COEFFICIENT OF UTILIZATION, AND AN ISO-FOOT-CANDLE DIAGRAM. PRORATED DATA WILL NOT BE ACCEPTABLE. THE PHOTOMETRIC REPORT MUST BE DONE IN ACCORDANCE WITH PUBLISHED I.E.S. TESTING PROCEDURES AND CERTIFIED BY A REGISTERED ELECTRICAL ENGINEER.

   c. A CURRENT ORIGINAL CATALOG DATA SHEET WITH LIGHTING FIXTURE CATALOG NUMBERS. MODIFIED DATA SHEETS WILL NOT BE ACCEPTABLE.

   d. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM", LOCATED IN THE DIVISION 1 SPECIFICATION, STATING THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY AFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED BECAUSE OF THE APPROVED SUBSTITUTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF ANY ESTABLISHED LIQUIDATED DAMAGES.

   e. FOR SPECIFIC INTERIOR FIXTURE SUBSTITUTIONS, WHEN DIRECTED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE SPECIFIC INTERIOR AREA. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE, THE REPORT SHALL BE RUN IN BOTH NORMAL AND EMERGENCY MODES. THIS REPORT SHALL BE CONFIGURED WITH SPECIFIC CONSTRAINTS, AS DIRECTED BY THE ENGINEER OF RECORD. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO OR BETTER THAN THE LIGHTING LEVELS OF THE SPECIFIED PRODUCT.

   f. FOR ALL EXTERIOR FIXTURE SUBSTITUTIONS, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE ENTIRE SITE PLAN BASED ON USING THE PROPOSED ALTERNATIVE FIXTURES. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO, OR BETTER THAN THE LIGHTING LEVELS AND UNIFORMITY RATIOS (MAX:MIN AND AVG:MIN) OF THE SPECIFIED PRODUCT. THIS REPORT SHALL BE CONFIGURED WITH THE FOLLOWING CONSTRAINTS.

      i. THE SPACING INCREMENT OR POINTS ON THE VERIFICATION REPORT SHALL NOT EXCEED TEN (10) FEET IN EITHER DIRECTION.

      ii. THE PHOTOMETRIC CALCULATION SHALL BE BASED ON PROVIDING MAINTAINED FOOT-CANDLE LEVELS USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR, AS DIRECTED BY THE ENGINEER OF RECORD.

   iii. THE PHOTOMETRIC CALCULATION SHALL SHOW ANY ADDITIONAL ENERGY AND/OR ENERGY COSTS, FOR A TEN YEAR PERIOD, AS COMPARED TO THE ORIGINALLY SPECIFIED ITEM. THE TOTAL COSTS FOR THESE EXPENSES WILL BE DEDUCTED FROM THE CONTRACT COST.

4. DURING THE BIDDING PROCESS, THE CONTRACTOR SHALL REFER TO THE LIGHTING FIXTURE SCHEDULES ON THE ARCHITECTURAL PLANS (IF PROVIDED ON PROJECT), LIGHTING DESIGN PLANS/SPECIFICATIONS (IF PROVIDED ON PROJECT), AND THE ELECTRICAL PLANS. ANY DISCREPANCIES BETWEEN THEM INCLUDING, BUT NOT LIMITED TO, PART NUMBERS AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ELECTRICAL ENGINEER, AND LIGHTING DESIGNER WITH PRE-BID RFI(S). WHERE DISCREPANCIES ARE DISCOVERED WHEN THERE IS INSUFFICIENT TIME TO ISSUE PRE-BID RFI(S), THE BASE BID SHALL INCORPORATE THE MOST COSTLY VERSION OF THE DISCREPANCY AND SHALL BE MEMORIALIZED IN AN RFI OR AS A BID CLARIFICATION. PROVIDING A VOLUNTARY DEDUCTIVE ALTERNATE BID CLARIFYING FIXTURE SCHEDULE DISCREPANCIES IS ALSO AN ACCEPTABLE FORM OF DISCREPANCY DOCUMENTATION.

5. FIXTURE FINISHES:

   a. ALL FIXTURE FINISHES AND COLORS, UNLESS NOTED AS PREMIUM OR CUSTOM, SHALL BE SELECTED FROM THE MANUFACTURERS STANDARD COLOR OPTIONS AS LISTED ON THE FIXTURE SPECIFICATION SHEET. STANDARD FINISH SHALL BE SELECTED BY THE ARCHITECT, INTERIOR DESIGNER OR OWNER. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.

   b. ALL FIXTURES INDICATED WITH A PREMIUM OR CUSTOM COLOR SHALL BE ASSIGNED A CUSTOM COLOR REFERENCE NUMBER (SUCH AS RAL#) OR PROVIDE FIVE (5) PAINT CHIPS FOR MANUFACTURER TO USE TO MATCH COLOR. PREMIUM OR CUSTOM FINISH SHALL BE SELECTED BY THE ARCHITECT, INTERIOR DESIGNER OR OWNER. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.

6. THE LIGHTING FIXTURE MODEL NUMBER MAY INDICATE A FIXTURE OPTION THAT THE CONTRACTOR MUST IDENTIFY PRIOR TO ORDERING/PROVIDING SUBMITTALS, INCLUDING, BUT NOT LIMITED TO: VOLTAGE, MOUNTING CONDITION/HARDWARE, FINISH, DIMMING REQUIREMENTS/BALLAST INFORMATION. GENERALLY, CONTRACTOR-SELECTED OPTIONS ARE DENOTED IN THE PART NUMBER WITH BRACKETS EX: [VOLTS?]

   a. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING ALL HANGERS, CLIPS AND NECESSARY HARDWARE TO INSTALL THE FIXTURE IN THE ENVIRONMENT AS SHOWN ON THE ARCHITECTURAL PLANS. ALL FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED CODES.

   b. VOLTAGES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING - SEE ELECTRICAL DRAWINGS FOR BRANCH CIRCUIT INFORMATION. IT IS POSSIBLE THAT FIXTURES WILL BE REQUIRED IN VARIOUS VOLTAGES.

7. "NO KNOWN EQUAL" LIGHTING FIXTURE PRICING/BIDDING NOTES:

   a. EACH FIXTURE IDENTIFIED AS "NO KNOWN EQUAL" ON THIS PROJECT SHALL BE BID IN A "LINE ITEM" FORMAT. A PER UNIT MATERIAL COST SHALL BE PROVIDED FOR EACH "NO KNOWN EQUAL" FIXTURE. THIS PRICE SHALL INCLUDE LAMPS AS WELL AS ALL OTHER REQUIRED MATERIALS REQUIRED FOR INSTALLATION. THE FIXTURE PRICE QUOTED WILL BE UTILIZED, PRIOR TO SHOP DRAWING APPROVAL, FOR "ADDING" AND/OR "DELETING" ANY QUANTITY OF THE FIXTURE.

   b. A UNIT COST SHALL BE SUBMITTED FOR EACH "NO KNOWN EQUAL" FIXTURE. SUBMIT THE PRICING AS PART OF THE BID FORM ON A SEPARATE 8 1/2" X 11" SHEET.

   c. FAILURE TO SUBMIT A LINE ITEM FOR EACH "NO KNOWN EQUAL" FIXTURE MAY RESULT IN THE REJECTION, REFUSAL, OR NON-ACCEPTANCE OF THE CONTRACTOR'S BID.

8. FIXTURES IDENTIFIED AS "NO KNOWN EQUAL - OWNER STANDARD" OR "CAMPUS STANDARD" ARE TO BE PROVIDED AS SPECIFIED, WITH SUBSTITUTIONS STRICTLY PROHIBITED. SEE ADDITIONAL NOTES FOR "NO KNOW EQUAL" BIDDING REQUIREMENTS.

D. LIGHTING FIXTURE SPECIFICATIONS:

1. ALL EXTERIOR LIGHTING EQUIPMENT SHALL BE RATED FOR WET LOCATION AND THE IP RATING OF ALL EQUIPMENT, INCLUDING BALLAST, POWER SUPPLY AND TRANSFORMER ENCLOSURES SHALL CONFORM TO THE CONDITIONS IN WHICH THE LIGHTING FIXTURE IS MOUNTED.

2. ALL BALLASTS, POWER SUPPLIES, DRIVERS AND/OR TRANSFORMERS THAT ARE REMOTELY LOCATED SHALL BE INSTALLED AS NEAR TO THE LIGHTING FIXTURE(S) AS POSSIBLE, HIDDEN FROM PUBLIC VIEW IN AN ACCESSIBLE COMPARTMENT THAT IS WELL VENTILATED. CONTRACTOR TO COORDINATE LOCATION(S) WITH ARCHITECT PRIOR TO ROUGH-IN.

3. ALL TRANSFORMERS SHALL BE FUSED ON THE SECONDARY SIDE.

4. COLOR FILTERS SHALL BE GLASS OR DICHROIC UNLESS OTHERWISE INDICATED ON DRAWINGS.

5. CONTRACTOR TO PROVIDE 20% ADDITIONAL COLOR FILTERS FOR EACH COLOR AND SIZE.

6. CONTRACTOR TO VERIFY THAT ALL LIGHTING FIXTURES SPECIFIED WITH A COLOR FILTER ARE SUPPLIED WITH ANY AND ALL ATTACHMENT DEVICES FOR THE FILTER.

7. ALL TRACK LIGHTING FIXTURES SHALL BE PROVIDED WITH THE APPROPRIATE TRACK SYSTEM WHICH SHALL INCLUDE ALL MISCELLANEOUS COMPONENTS REQUIRED, AS WELL A ANY REQUIRED CIRCUIT LIMITERS FOR A COMPLETE INSTALLATION. TRACK LENGTH(S) SHALL BE PER DRAWINGS.

E. DRIVERS / TRANSFORMERS:

1. [OPTION?] IN FIXTURE MODEL NUMBER INDICATE THAT THE FIXTURE DRIVER TYPE AND QUANTITY MUST BE VERIFIED BY THE CONTRACTOR USING FIXTURE CALLOUT INFORMATION AND FIXTURE SWITCHING CONFIGURATION INFORMATION.

2. CONTINUOUS DIMMING AND CONTROLLABLE LED:

   a. PROVIDE CONTROLLABLE LED DIMMING DRIVERS (INTEGRAL OR REMOTE) WITH POWER FACTOR GREATER THAN 0.85 AND MAXIMUM THD OF 20% AT FULL LOAD.

   b. PRIOR TO BID CONTRACTOR TO VERIFY DRIVER COMPATIBILITY WITH DIMMERS, DIMMING CONTROL SYSTEM(S) AND DISTRIBUTED LIGHTING CONTROL SYSTEM(S) WITH RESPECTIVE LIGHTING MANUFACTURER(S) AND LIGHTING/DIMMING CONTROL SYSTEM MANUFACTURERS. IF COMPATIBILITY DOCUMENTATION IS UNAVAILABLE FOR A GIVEN LED FIXTURE/LIGHTING CONTROL SYSTEM COMBINATION, CONTRACTOR SHALL INCLUDE COSTS IN THE BASE BID FOR RESPECTIVE LIGHTING MANUFACTURER AND LIGHTING CONTROLS MANUFACTURER TO TEST/WARRANT COMPATIBILITY OF SAID COMBINATIONS.

   c. CONTINUOUS LED DIMMING DRIVERS SHALL BE AT MINIMUM 4-WIRE 0-10V 10% DIMMING (HOT, NEUTRAL, DIM+, DIM-).

F. EMERGENCY FIXTURES / BATTERY PACKS:

1. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE IDENTIFIED / PROVIDED AS FOLLOWS:

   a. INTEGRAL BATTERY PACK (EB):

      3a/3EB - FIXTURE CONNECTED TO CIRCUIT "3", CONTROL SWITCHLEG "a" - WITH THE BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".

      3NL/3EB - FIXTURE CONNECTED TO A CONSTANT HOT CIRCUIT "#3". BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".

   b. REMOTE BACK-UP SOURCE (EM):

      3a/3EM - ROUTED THROUGH A U.L. LISTED TRANSFER RELAY (LC & D #GR-2001E/S) FOR SWITCHED CONTROLS OR A U.L. LISTED TRANSFER SWITCH (BODINE #GTD SERIES DEVICE) FOR DIMMING CONTROLS. CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3". SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATIONS FOR DEVICE REQUIREMENTS WHEN CONTROLLED BY OCCUPANCY SENSORS.

      3NL/3EM - FIXTURE CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3".

   c. REMOTE BACK-UP SOURCE (EM) NOTES:

      - ALL REMOTE BACK UP SOURCE (EM) FIXTURES SHALL BE PROVIDED WITH AN IN LINE FUSE. PROVIDE ADDITIONAL LABELING TO INDICATE FIXTURE IS PROTECTED BY A FUSE.

2. EMERGENCY BATTERY PACK NOTES:

   a. PROVIDE INTEGRAL TEST SWITCH / CHARGE LIGHT OPTION FOR ALL EMERGENCY BATTERY PACKS INSTALLED IN LIGHT FIXTURES.

   b. ALL RECESSED DOWNLIGHTS SUPPLIED WITH A BATTERY PACK SHALL BE PROVIDED WITH AN INTEGRAL COMBINATION TEST SWITCH / CHARGING INDICATOR LIGHT- MOUNTED INSIDE THE REFLECTOR. REMOTE TEST SWITCH / CHARGING LIGHTS ARE NOT ALLOWED. THE TEST SWITCH / CHARGING INDICATOR LIGHT SHALL BE SECURELY ATTACHED TO THE REFLECTOR WITH 18" OF SLACK LEADS, FOR EASY REMOVAL OF THE REFLECTOR ASSEMBLY.

   c. ALL BATTERY PACKS AND ALL COMBINATION LED BATTERY PACK/EMERGENCY DRIVERS SHALL BE UL924 LISTED.

   d. PRIOR TO BID, CONTRACTOR SHALL VERIFY WITH FIXTURE MANUFACTURER(S) THAT EMERGENCY BATTERY PACKS ARE MANUFACTURED TO BE INTEGRAL TO FIXTURE HOUSINGS.

   e. SHOULD THE SPECIFIED LED EMERGENCY BATTERY PACK(S) NOT FIT WITHIN A GIVEN FIXTURE(S) OR SHOULD THE FIXTURE NOT BE MANUFACTURED TO ACCOMMODATE A BATTERY PACK, CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO LOCATE/CONNECT SELF-TESTING MINI INVERTER(S) (IOTA #ILS SERIES OF BODINE#ELI-S-[WATT?]) REMOTELY FROM THE FIXTURE(S) IN THE NEAREST ELECTRICAL ROOM OR TO LOCATE EMERGENCY BATTERY PACK(S) REMOTELY FROM THE FIXTURE ABOVE THE NEAREST ACCESSIBLE CEILING.

   f. LED BATTERY PACKS SHALL PROVIDE A MINIMUM OF 90 MINUTES OF EMERGENCY ILLUMINATION, AND SHALL BE RATED AT A MINIMUM OF 10 WATTS, OR AS SPECIFIED. WHERE A FIXTURE TYPE IS UNAVAILABLE WITH A 10W BATTERY PACK OR WHERE THE WATTAGE IS NOT SPECIFIED ON THE PLANS, INCLUDE ALL COST IN BASE BID TO PROVIDE THE HIGHEST WATTAGE AVAILABLE ON THE FIXTURE CUTSHEET. ANY LISTED EQUAL FIXTURE OR ANY SUBSTITUTION OFFERED BY THE CONTRACTOR MUST ALSO HAVE BATTERY PACKS CAPABLE OF PRODUCING THE SAME OR MORE LUMENS WHEN ON BATTERY AS OUTLINED ABOVE. ACCEPTABLE MANUFACTURES: BODINE OR IOTA.

   g. TO MAINTAIN UL LISTING OF LED FIXTURE, FIXTURE MANUFACTURER(S) SHALL INSTALL LED EMERGENCY BATTERY PACKS AT THE FACTORY AND OBTAIN A UL LISTING FOR THE FIXTURE WITH EMERGENCY BATTERY PACK. FIELD-INSTALLATION OF LED EMERGENCY BATTERY PACK(S) IS PROHIBITED.

   h. PROVIDE DAMP LOCATION VERSION IN ALL DAMP LABEL INSTALLATIONS.

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	MANUFACTURER AND MODEL NUMBER	FIXTURE VA/ WATTS	LAMP/ LAMP OPTION	GENERAL DESCRIPTION
	1	METALUX 2ARLN-42-UNV-L835-CD-1 - EQUAL BY: DAY-BRITE	31.2	LED/3500K	2'x4' RECESSED LED TROFFER WITH 4200 LUMEN LED MODULE, 0-10V DIMMING DRIVER, PERFORATED CENTER BASKET DIFFUSER. SHADED SYMBOL INDICATES EMERGENCY FIXTURE EQUIPPED WITH A 90 MINUTE EMERGENCY BATTERY PACK.
	2	METALUX 2AGR-LD4-48-F1-UNV-L835-CD1-PAF EQUAL BY: PHILIPS DAY BRITE, HE WILLIAMS	44/44	LED/3500K	RECESSED TROFFER FOR USE WITH 44W, 4800 LUMEN LED MODULE. 2 FOOT BY 4 FOOT, 3 1/4-INCH DEEP. #12 PATTERN ACRYLIC PRISMATIC LENS. PAINTED AFTER FABRICATION. 0-10V DIMMING. HIGH REFLECTANCE WHITE ENAMEL FINISH. FLAT WHITE STEEL DOOR. PROVIDE EMERGENCY BATTERY PACK WHERE SHOWN ON PLANS.
	3	METALUX 4SNLED-LD5-22SL-LN-UNV-L835-CD1 - EQUAL BY: DAY-BRITE	16/16	LED/3500K	ROUND SEMI-FROST LENSED STRIPLIGHT FOR USE WITH 16W, 2276 LUMEN MODULE 4 FOOT BY 3-INCH BY 3 11/16-INCH. FROSTED ACRYLIC LENS VERIFY HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. PAINTED AFTER FABRICATION. 0-10V DIMMING. HIGH REFLECTANCE BAKED WHITE ENAMEL FINISH.
	4	METALUX 8TSNLED-LD5-60SL-LN-UNV-L835-CD1-AYC EQUAL BY: DAY-BRITE	50/50	LED/3500K	ROUND SEMI-FROST LENSED STRIPLIGHT FOR USE WITH 50W, 6103 LUMEN MODULE 8 FOOT BY 3-INCH BY 3 11/16-INCH. FROSTED ACRYLIC LENS WITH CHAIN HANGER VERIFY HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. PAINTED AFTER FABRICATION. 0-10V DIMMING. HIGH REFLECTANCE BAKED WHITE ENAMEL FINISH.
	5	HALO HC6-15-D010-HM6-0525-835-61-WD-C EQUAL BY: LIGHTOLIER	14.5	LED/3500K	RECESSED LED DOWNLIGHT 6" APERTURE WITH CLEAR SPECULAR REFLECTOR, 0-10V DRIVER. 1500 LUMEN OUTPUT. - -
	6	HALO HC6-45-D010-HM6-4560-835-61-MD-C EQUAL BY: LIGHTOLIER	46	LED/3500K	RECESSED LED DOWNLIGHT 6" APERTURE WITH CLEAR SPECULAR REFLECTOR, 0-10V DRIVER. 4500 LUMEN OUTPUT. - -
	7	NEO RAY S122DRP-S-675D-8-35-GYP-_F_-1-U-DD-F-[COLOR] EQUAL BY: DAY-BRITE	6.8/FT	LED/3500K	2" LINEAR RECESSED PERIMETER LED. 625 LUMEN/FOOT. FLUSH SATIN DIFFUSER 0-10V DIMMING DRIVER. CONFIRM COLOR WITH ARCHITECT PRIOR TO ORDERING. PROVIDE LENGTH AS SHOWN ON PLANS FOR WALL TO WALL COVERAGE. -
	8	OCL MN1-P1ED-36-GW-BNP-LED2-35K-UNV-??-DM1 - EQUAL BY: -	105	LED/3500K	DECORATIVE LED PENDANT WITH 36 ROUND ACRYLIC DIFFUSER AND ALUMINUM RING. SOLID ALUMINUM CONSTRUCTION, 0-10V DIMMING DRIVER. GLOSS WHITE DIFFUSER. VERIFY FINISH COLOR AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ORDER. - -
	9	EXISTING DECORATIVE FIXTURE - EQUAL BY: NONE	50	LED/3000K	EXISTING CHAIN HUNG DECORATIVE FIXTURE (AUDITORIUM). RE-LAMP FIXTURE WITH SORA A19 E26 11W LED LAMP WITH 3000K COLOR TEMPERATURE. VERIFY QUANTITY OF LAMPS PRIOR TO BID. -
	10	METALUX 4WLED-LD4-40SL-F-UNV-L835-CD1 EQUAL BY: DAY-BRITE	30	LED/3500K	1'X4' SURFACE MOUNTED LED WITH FROSTED ACRYLIC WRAP LENS, STEEL HOUSING, AND 0-10V DIMMING DRIVER. 4000 LUMEN OUTPUT. SHADED SYMBOL INDICATES EMERGENCY FIXTURE EQUIPPED WITH A 90 MINUTE EMERGENCY BATTERY PACK.
	11	EXISTING DECORATIVE SCONCE - EQUAL BY: -	14	LED/3000K	EXISTING WALL SCONCE RE-LAMP FIXTURE WITH SORA A19 E26 11W LED LAMP WITH 3000K COLOR TEMPERATURE. VERIFY QUANTITY OF LAMPS PRIOR TO BID. -
OR	X	SURE-LITES LPX-7-[FACES?]-[FINISH?]-[OPTION?]-[SD OPTION?]-[PROTECTION?] EQUAL BY: ???	2/2	LED/GREEN	THERMOPLASTIC EXIT SIGN FOR USE WITH LED LAMPS. EMERGENCY BATTERY PACK. REFER TO ARCHITECTURAL PLANS FOR NUMBER OF FACES AND CHEVRONS. GREEN LETTERS AND WHITE HOUSING,
	S1	MCGRAW-EDISON GLEON-AE-02-LED-E1-T4W-BZ-MS/2-L20 EQUAL BY: GARDCO	105	LED/4000K	SINGLE LED LUMINAIRE. POLE MOUNTED AT 18'-0" AFF, WITH EXTRUDED ALUMINUM HOUSING AND BI-LEVEL MOTION SENSOR. PROVIDE 15' SQUARE STEEL POLE. BRONZE FINISH. -
	S2	MCGRAW-EDISON GLEON-AE-02-LED-E1-T4W-BZ-MS/2-L20 EQUAL BY: GARDCO	210	LED/4000K	DOUBLE LED LUMINAIRE. POLE MOUNTED AT 18'-0" AFF, WITH EXTRUDED ALUMINUM HOUSING AND BI-LEVEL MOTION SENSOR. PROVIDE 15' SQUARE STEEL POLE. BRONZE FINISH. -
	S3	HALO FT-28-VC-W - EQUAL BY: -	23.6	LED/4000K	TWIN LED WALL MOUNTED FLOODLIGHT. 2200 LUMEN OUTPUT WET LOCATION LISTED. - -

SEE GENERAL LIGHTING FIXTURE SCHEDULE NOTES FOR CRITICAL FIXTURE SPECIFICATION AND ORDERING INFORMATION.

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12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

LIGHTING
FIXTURE
SCHEDULE

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E4.1

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DLCS SCHEDULE

SYSTEM TOPOLOGY	COMMUNICATION TOPOLOGY	FIXTURE INTEGRATED SENSING	BAS INTEGRATION	WIRELESS DLCS COMPONENT BATTERY USAGE	REMARKS
NETWORKED	WIRED	NO	NO	NONE	

DISTRIBUTED LIGHTING CONTROL SYSTEM REQUIREMENTS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL MATERIAL, LABOR, EQUIPMENT, AND SERVICES, IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING AND CODE COMPLIANT INSTALLATION.
2. IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC FORMAT, TO PROVIDE CONTRACTOR INFORMATION THAT SUPPLEMENTS AND ENHANCES THE GENERALLY ACCEPTED CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES EMPLOYED IN CONNECTION WITH INSTALLATION OF THIS TYPE OF PRODUCT/SYSTEM.
3. THE CONTRACTOR SHALL ALSO INCORPORATE THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS/WARRANTY REQUIREMENTS AS PART OF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENT REQUIREMENTS AND THE MANUFACTURER'S INSTALLATION REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY - UNLESS THE MORE STRINGENT REQUIREMENT VOIDS APPLICABLE WARRANTIES OR VIOLATES THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. ANY SUCH CONFLICT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING THROUGH THE FORMAL RFI PROCESS.
4. REFER TO THE ASSOCIATED SCHEDULES, SCHEMATICS, DRAWINGS, AND SPECIFICATIONS FOR DETAILED INFORMATION/REQUIREMENTS ON THIS PRODUCT/SYSTEM.
5. CONTRACTOR IS RESPONSIBLE TO VERIFY LIGHT FIXTURE DIMMING PROTOCOLS ARE COMPATIBLE WITH THE DLCS.
6. SECURITY STANDARD CERTIFICATIONS, SHOP DRAWINGS AND COMPONENT SUBMITTALS SHALL BE SUBMITTED PER THE GENERAL SPECIFICATION REQUIREMENTS SHOWING ALL COMPONENTS, WIRING CONFIGURATIONS AND PROGRAMMING SCHEDULES. SCALED SHOP DRAWINGS DEPICTING/IDENTIFYING ALL SYSTEM COMPONENT LOCATIONS SHALL BE PROVIDED. SUBMITTALS SHALL BE MADE SPECIFIC TO THE PROJECT - GENERIC SUBMITTALS AND SUBMITTALS WITHOUT SCALED SHOP DRAWINGS SHALL BE REJECTED.

nLIGHT:

WALL BOX SENSORS:
- STANDALONE SINGLE RELAY = #WSXA-PDT
- STANDALONE DUAL RELAY = #WSXA-PDT-2P
- SYSTEM-BASED DIMMING CONTROL = #nWSXA-PDT-LV-DX

CEILING SENSORS:
- ONE-WAY DIRECTIONAL = (WIRED) #NRM-PDT-9 W/MASKING AS REQUIRED (WIRELESS/LOW VOLTAGE) #RCMS-PDT-9-G2 W/ MASKING AS REQUIRED (WIRELESS/BATTERY) #RCMSB-7/45/45A-G2
- 360 DEGREE COVERAGE = #NRM-PDT-9 STANDARD RANGE #(WIRED) NRM-PDT-10 EXTENDED RANGE/CORRIDOR #RCMS-PDT-9-G2 (WIRELESS/LOW VOLTAGE) #RCMS-PDT-10 EXTENDED RANGE/ CORRIDOR
- EMBEDDED FIXTURE SENSOR = (WIRELESS/LOW VOLTAGE) #RES7-PDT-G2 INDOOR (WIRELESS/LOW VOLTAGE) #RMSOD, RSDGR-127-G2 (WIRELESS/LOW VOLTAGE) RSBOR EXTERIOR (WIRELESS/BATTERY) #RCMSB-7/45/45A-G2

DAYLIGHT SENSORS:
- CLOSED LOOP SENSOR = (WIRED) #NES-ADCX OR #NRM-ADCX (ONLY IF REQUIRED BY CLG. TYPE)
- ONE-WAY DIRECTIONAL = (WIRELESS) #RCMS-G2
- EMBEDDED FIXTURE SENSOR = (WIRELESS) #RES7

CONTROL UNITS:
- SWITCH / STEPPED DIMMING = (WIRED) #NPP-16/#NSP-16 (WIRELESS) #RPP20-G2 NUMBER OF RELAYS AS REQUIRED.
- CONTINUOUS DIMMING (O-10V) = (WIRED) #NPP16-D (WIRELESS) #RPP20-D-G2 NUMBER OF RELAYS AS REQUIRED.
- CONTINUOUS DIMMING (UNIVERSAL) = (WIRED) #NSP5-PCD. NUMBER OF RELAYS AS REQUIRED. (WIRELESS) UTILIZE 0-10V PHASE DIMMING ADAPTER.
- AUXILIARY INPUT/ OUTPUT CONTROL = #NAR-40
- RECEPTACLE CONTROL = (WIRED) #NPP20 PL (WIRELESS) #RPP20-G2
- AV SYSTEM SERIAL INTERFACE = #nIO X (SCREENS / AV SYSTEM INTEGRATION)
- HVAC CONTROL = #NAR-40
- MOVEABLE PARTITION INTERFACE & SENSOR = #FRESCO TOUCH PANEL #NFCS-7TSN (PER SPACE), #NIO-1S POWER PACK (SENSOR POWER), & #ENTERTAINMENT NETWORKS PARTITION SENSOR W/BOTTOM COVER (www.entertainmentworks.com).
- DUAL MODE CORRIDOR/STAIRWAY/AISLEWAY CONTROL INPUT = #NDTC

WALL CONTROLS:
- DIMMING = (WIRED) #NPODMA-DX SERIES (WIRELESS) #RPODB-DX (# OF DIMMERS AS REQUIRED - 4 / YOKE MAX)
- KEYED SWITCH = #NIO INPUT INTERFACE W/LEVITON #1221-2L-? KEYED SWITCH
- TOUCH SCREEN = 7-INCH CAPACITIVE TOUCH #FCS-7TSN-[DMX?]-[FINISH?] W/ ACUITY FCS-PS10 24V POWER SUPPLY; 3.5-INCH CAPACITIVE TOUCH #NPOD TOUCH INCLUDES ACUITY PS150 24V POWER SUPPLY

NETWORK COMM COMPONENTS:
- GATEWAY = #NECY-MVOLT BAC ADR ENC GFXK WITH ENCLOSURE
- BRIDGE = #NBRG-8-KIT

NETWORK RELAY PANELS:
- ARP INTENCXX NLT XXFCR MVOLT, QTY AS REQUIRED, TO INCLUDE SPARE RELAYS SHOWN IN SCHEDULES.

EMERGENCY POWER INTERFACE:
- SWITCHING / STEP DIMMING = (WIRED) NPP16-ER (WIRELESS) #RPP20-ER-G2 NUMBER OF RELAYS AS REQUIRED, NORMAL CIRCUIT REQUIRED.
- SWITCH / STEPPED DIMMING = (WIRELESS) #RPP20-EM-G2. NUMBER OF RELAYS AS REQUIRED, NORMAL CIRCUIT NOT REQUIRED, GENERATOR AND DELAYED TRANSFER INVERTER ONLY.
- CONTINUOUS DIMMING = (WIRED) #NPP16-D-ER
- CONTINUOUS DIMMING (0-10V) = (WIRELESS) #RPP20-D-ER-G2. NUMBER OF RELAYS AS REQUIRED, NORMAL CIRCUIT REQUIRED. (WIRELESS) #RPP20-D-EM-G2. NUMBER OF RELAYS AS REQUIRED, NORMAL CIRCUIT REQUIRED EXCEPT WHERE GENERATOR AND DELAYED TRANSFER INVERTER POWER IS USED.

LOAD INTERFACE DEVICE:
- LUTRON COMPONENTS = LUTRON #BCI-0-10.
- REVERSE PHASE DIMMING COMPONENTS = (WIRED) #NSP5-PCD-ELV120 OR LUTRON #PHPM-PA-DV-WH (WIRELESS) #PCDM & RPP20DG2/
- FORWARD PHASE DIMMING COMPONENTS = (WIRED) #NSP5-PCD-MLV OR LUTRON #PHPM-PA-DV-WH (WIRELESS) LUTRON #BCI-0-10/LUTRON #PHPM-PA-DV-WH
- 2 & 3 WIRE DIMMING COMPONENTS = (WIRED) #NSP5-PCD-2W/3W OR LUTRON #PHPM-PA-DV-WH

Current / NX Controls

WALL BOX SENSORS:
- STANDALONE SINGLE RELAY PIR OR US/PIR = #LHRIRS1-N-[FINISH] or LHRMTS1-N-[FINISH]
- STANDALONE 0-10V DIMMING W/ SINGLE RELAY PIR or US/PIR = #LHRDMIRS3-N-[FINISH] or LHRDMMTS3-N-[FINISH]
- STANDALONE DUAL RELAY, DUAL CIRCUIT PIR or US/PIR = #LHRDCIRD2-N-[FINISH] or LHRDCMTD2-N-[FINISH]
- SYSTEM-BASED DIMMING CONTROL PIR or US/PIR = #NXSMIR-LH1-[FINISH] or NXSMDT-LH1-[FINISH]

CEILING MOTION/DAYLIGHT SENSORS (AVAILABLE STD. FINISHES = WHITE (WH), GREY (GY), BLACK (BK)):
- STANDALONE 180 DEGREE (REQUIRES POWERPACK) US/PIR = OMNIDT500
- STANDALONE 360 DEGREE (REQUIRES POWERPACK) US/PIR = OMNIDT2000
- POWER PACK = UVPP
- SYSTEM-BASED OPEN OFFICE PIR (200-450 SQFT) = NXSMP2-LMI
- SYSTEM-BASED GEN PURPOSE PIR or US/PIR (2000 SQFT) = NXSMP2-OMNI-[FINISH] or NXSMDT-OMNI-[FINISH]
- SYSTEM-BASED LOW BAY PIR (8 - 16 FT MOUNT) = NXSMP2-LMO-[FINISH]
- SYSTEM-BASED HIGH BAY PIR (16 - 45 FT MOUNT) = NXSMP2-HMO-[FINISH]

DAYLIGHT SENSORS:
- SYSTEM-BASED INDOOR DAYLIGHT SENSOR = NXDS
- SYSTEM-BASED OUTDOOR DAYLIGHT SENSOR = NXDS-O

CONTROL UNITS:
- ROOM CONTROLLER W/ 1 RELAY, 1 CH 0-10V DIMMING = NXRCFX2-1RD-UNV
- ROOM CONTROLLER W/ 2 RELAYS, 2 CH 0-10V DIMMING = NXRCFX2-2RD-UNV
- UL924 ROOM CONTROLLER W/ 1 RELAY, 2 CH 0-10V DIMMING = NXRC-UL924-UNV
- PHASE DIM INTERFACE = NXFRD

WALL CONTROLS (# = BUTTONS = 1, 2, 3, 4, 5, 6, 8. (AVAILABLE STD. FINISHES = WH, LA, GY, BK, RD, IV):
- NETWORK SMART SWITCH = NXSW2-#-[FINISH]
- NETWORK WIRELESS SWITCH = NXSW-WRS-WH
- NETWORK KEYED SWITCH = NXSW2-KEY-[FINISH]
- NETWORK TIMED SWITCH = NXSW2-TO-[FINISH]
- NETWORK ON/RAISE/LOWER/OFF = NXSW2-ORLO-[FINISH]
- NETWORK SCENE SELECT SWITCH = NXSW2-SS-[FINISH]
- NETWORK TOUCHSCREEN (1 GANG) = NXSW-TH3-WH

NETWORK COMM COMPONENTS:
- NETWORK BRIDGE = NXHNB2
- AREA MANAGER (UP TO 1000 DIGITAL DEVICES) = NXAC2-120
- SITE MANAGER (UP TO 100 AREAS) = NXSITMGR-OADR2

NETWORK RELAY PANELS:
- NETWORK RELAY PANEL: NXP2 SERIES (8, 16, 24, 32, 48 CAPACITY. DIMMING CHANNELS INCL. TO MATCH RELAY CAPACITY. AVAILABLE UL924 OPTION

EMERGENCY POWER INTERFACE:
- UL924 ROOM CONTROLLER W/ 1 RELAY, 2 CH 0-10V DIMMING = NXRC-UL924-UNV
- AUTOMATIC LOAD CONTROL RELAY W/ DIMMING = ALCR1277
- UL100B BRANCH CIRCUIT TRANSFER = UL100BCELTS1277
- LOW VOLTAGE REMOTE TEST SWITCH = LVS-ETRB

NX CONNECT-WIRELESS ROOM CONTROL SOLUTION (# = BUTTONS = 2, 4)
- WIRELESS ROOM CONTROLLER, 1 RELAY, 1 0-10 DIMMER = NXC-WA210-PM
- WIRELESS ROOM CONTROLLER, 2 RELAY, 2 0-10 DIMMER = NXC-WA220-PM
- WIRELESS ROOM CONTROLLER, 3 RELAY, 3 0-10 DIMMER = NXC-WA230-PM
- WIRELESS BATTERY OCCUPANCY SENSOR W/ PHOTO SENSOR = NXC-WOS3-PC
- WIRELESS IN FIXTURE SENSOR (8-11 FT MOUNT) = NXC-WIZ20
- WIRELESS IN FIXTURE SENSOR (8-40 FT MOUNT) = NXC-WHS20-L (8'), -M (20'), or -H (40')
- WIRELESS BATTERY SWITCH, SURFACE MOUNT = NXC-WWD-#SM
- WIRELESS BATTERY SWITCH, IN-WALL MOUNT = NXC-WWD-#IW
- WIRELESS KINETIC SWITCH, SURFACE MOUNT = NXC-ZBT

WATTSTOPPER:

WALL BOX SENSORS:
- STANDALONE SINGLE RELAY = #DW-100
- STANDALONE 0-10V DIMMING WITH SINGLE RELAY = #PW-311
- STANDALONE DUAL RELAY = #DW-200
- SYSTEM-BASED DIMMING CONTROL = #LMDW-102

CEILING SENSORS:
- ONE-WAY DIRECTIONAL = (WIRED) #LMDC-100 WITH MASKING AS REQUIRED (PIR-ONLY WIRELESS) #LMPC-600 SERIES WITH MASKING AS REQUIRED.
- 360 DEGREE COVERAGE = (WIRED) #LMDC-100 (PIR-ONLY WIRELESS) #LMPC-600 SERIES

DAYLIGHT SENSORS:
- OPEN LOOP SENSOR = (WIRED) #LMLS-500 (1-3 ZONE) (WIRELESS) #LMDL-600 (1-3 ZONE)
- CLOSED LOOP SENSOR = (WIRED) #LMLS-400 (1 ZONE ONLY)
- REMOTE CONTROL = #LMCT-100 (HAND TO OWNER AT COMPLETION OF PROJECT.)

CONTROL UNITS:
- SWITCHED = (WIRED) #LMRC-10? (NUMBER OF RELAYS AS REQUIRED) (WIRELESS) #LMRC-6??MCC
- CONTINUOUS DIMMING (O-10V, WIRED) = #LMRC-21? (NUMBER OF RELAYS AS REQUIRED).
- CONTINUOUS DIMMING (O-10V, WIRELESS) = #LMRC-6??MCC (NUMBER OF RELAYS AS REQUIRED).
- CONTINUOUS DIMMING (UNIVERSAL, WIRED) = #LMRC-22? (NUMBER OF RELAYS AS REQUIRED).
- RECEPTACLE CONTROL = #LMPL-101 OR LMPL-201 (WHERE MORE THAN 4 RECEPTACLE CONTROL UNIT SARE TIED TOGETHER) #BZ-250 (WHEN USING WIRELESS CONTROL UNIT) #LMPL-6?? (WHEN AVAILABLE)
- HVAC CONTROL = (WIRED) #LMRL-100 (WIRELESS) #LMRC-6??MCC
- AV SYSTEM SERIAL INTERFACE = (WIRED) #LMDI-100 ADD WIRELESS BRIDGE FOR WIRELESS SYSTEM.
- MOVEABLE PARTITION INTERFACE & SENSOR = PARTITION INTERFACE - #LMIO-102 PARTITION SWITCH/STATUS INDICATOR - #LMPS-104 POWER PACK - #BZ-50 (SENSOR POWER) PARTITION SENSOR - #ENTERTAINMENT NETWORKS SENSOR W/ BOTTOM COVER (www.entertainmentworks.com). ADD WIRELESS BRIDGE FOR WIRELESS SYSTEM.
- DUAL MODE CORRIDOR/STAIRWAY/AISLEWAY CONTROL INPUT = #LMZC-301, UNLESS OTHERWISE NOTED.

WALL CONTROLS:
- DIMMING = (WIRED) #LMSW-101/102/103/104/108 (# OF SWITCHES AS REQUIRED 4/YOKE MAX) (WIRELESS) #LMDM-601 (# OF SWITCHES AS REQUIRED 4/YOKE MAX)
- KEYED SWITCH = #LMIO-101 INPUT INTERFACE W/ LEVITON #1221-2L-? KEYED SWITCH
- TOUCH SCREEN = 4.3-INCH CAPACITIVE TOUCH #LMEQ-41 W/ WATTSTOPPER #LMTI-100-[VOLT] INJECTOR

NETWORK COMM COMPONENTS:
- ZONE SEGMENT MANAGER = (WIRED OR WIRELESS) #LMSM-3E/#LMSM-6E W/#LMSM-ENC1 ENCLOSURE.
- NETWORK BRIDGE / ROUTER / SWITCH = (WIRED) #LMBC-300/#NB-ROUTER/#NB-SWITCH (WIRELESS) #LMBC-600/#LMBR-650/#NB-SWITCH
- NETWORK WIRING = (WIRED) #LM-MSTP.

NETWORK RELAY PANEL: LMCP8, 24, OR 48

EMERGENCY POWER INTERFACE:

POWER FAILURE ONLY:
- SWITCHING / STEP DIMMING = #ELCU-200 BYPASS DEVICE.
- CONTINUOUS DIMMING = #ELCU-200 BYPASS DEVICE.

POWER FAILURE OR FIRE ALARM ACTIVATION:
- SWITCHING / STEP DIMMING = LVS #EPC2 BYPASS DEVICE W/ LVS REMOTE POWER SUPPLY (#TR-A-2)
- 0-10V DIMMING = LVS #EPC2D BYPASS DEVICE W/ LVS REMOTE POWER SUPPLY (#TR-A-2)
- REVERSE/FORWARD PHASE DIMMING = LVS #EPCDFATS BRANCH CIRCUIT EMERGENCY TRANSFER SWITCH (BCELTS)

REMOTE POWER SUPPLY SHALL UTILIZE UNSWITCHED EMERGENCY CIRCUIT SERVING RESPECTIVE EMERGENCY FIXTURES.

LOAD INTERFACE DEVICE:
- LUTRON COMPONENTS = LUTRON #BCI-0-10.
- REVERSE/FORWARD PHASE DIMMING COMPONENTS = LUTRON #PHPM-PA-DV-WH.

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PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

DISTRIBUTED LIGHTING CONTROL SCHEDULE & PRODUCT SPECIFICATIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

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XREFs: x-Arch_Title Block

DISTRIBUTED LIGHTING CONTROLS SYSTEM SPECIFICATIONS (OCCUPANCY / VACANCY SENSORS AND DAYLIGHTING CONTROLS):

1. SEE LIGHTING PLAN DRAWINGS FOR DISTRIBUTED LIGHTING CONTROL SYSTEM (DLCS) SPECIFICS, SPACE SPECIFIC CONFIGURATIONS/REQUIREMENTS, AS WELL AS FIXTURE BALLAST/DRIVER CONFIGURATIONS.

2. ALL PRODUCTS SHALL BE BACKED BY A FIVE YEAR MANUFACTURER'S WARRANTY.

3. ALL PRODUCTS LISTED IN THIS SPECIFICATION ARE BASED UPON PRODUCTS LISTED ON THIS SHEET. THE FEATURES AND CHARACTERISTICS OF THE PRODUCT LITERATURE AND SPECIFICATION SHEETS AVAILABLE ON THE VARIOUS MANUFACTURER'S WEB-SITES ARE INCLUDED IN THE REQUIREMENT OF THESE SPECIFICATIONS. ALL DLCS NETWORKED/NON-NETWORKED SYSTEM-BASED AND STANDALONE COMPONENTS SHALL BE PROVIDED BY A SINGLE MANUFACTURER.

4. DLCS COMPONENTS SHALL BE COMPLIANT WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENERGY CODES.

5. ALL NETWORKED AND NON-NETWORKED SYSTEM-BASED DLCS SYSTEMS SHALL BE COMPLIANT WITH AND CERTIFIED TO THE FOLLOWING SECURITY STANDARDS SET FORTH IN THE LATEST PUBLISHED VERSION OF THE DESIGNLIGHTS CONSORTIUM'S "NETWORKED LIGHTING CONTROL SYSTEM TECHNICAL REQUIREMENTS" DOCUMENT (VERSION 4.0 OR LATEST PUBLISHED VERSION):

   - DLCS COMPONENTS: UL2900-1 UL STANDARD FOR SOFTWARE CYBER SECURITY FOR NETWORK-CONNECTABLE PRODUCTS.

   - DLCS DESIGN PROCESS: UL 2900-1 UL STANDARD FOR SOFTWARE CYBER SECURITY FOR NETWORK- CONNECTABLE PRODUCTS AND/OR ISO/IEC 27001 STANDARD FOR INFORMATION SECURITY MANAGEMENT SYSTEMS.

   - DLCS CLOUD SERVICES: ANY ASSOCIATED DLCS CLOUD SERVICES SHALL MEET THE REQUIREMENTS OF ISO/IEC 27017 (WITH 27001) STANDARD FOR CODE OF PRACTICE FOR INFORMATION SECURITY CONTROLS FOR CLOUD SERVICES.

   WHERE THE MANUFACTURER CANNOT DEMONSTRATE COMPLIANCE WITH THE ABOVE REQUIREMENTS, THE DLCS MANUFACTURER SHALL PROVIDE A COMPREHENSIVE PRODUCT-SPECIFIC IT SECURITY STATEMENT FOR REVIEW BY THE OWNER. THE DLCS SHALL NOT BE CONNECTED TO AN OWNER-FURNISHED NETWORK WITHOUT PRIOR WRITTEN PERMISSION BY THE OWNER,

   ADDITIONALLY, WHERE INSTALLED IN THE STATE OF CALIFORNIA, SYSTEM-BASED DLCS SYSTEMS SHALL BE COMPLIANT WITH CA STATE ASSEMBLY BILL NO. 375 CALIFORNIA PRIVACY ACT OF 2018 AND CA STATE SENATE BILL NO 327 INFORMATION PRIVACY FOR CONNECTED DEVICES.

6. WHERE THE DLCS SCHEDULE INDICATES A SPECIFIC "SYSTEM TOPOLOGY" OPTION, PROVIDE ONE OF THE FOLLOWING:

   "NETWORKED" - PROVIDE A SYSTEM-BASED DLCS THAT COMMUNICATES USING A MANUFACTURER-SPECIFIC DLCS NETWORK ALLOWING BI-DIRECTIONAL FLOW OF INFORMATION BETWEEN DEVICES SUCH AS ROOM CONTROLLERS, SENSORS, RELAY PANELS AND NETWORK CONTROLLERS. PROVIDE A DLCS GUI AND RELATED SOFTWARE TO FACILITATE REMOTE DLCS DEVICE PARAMETERS CHANGES, REMOTE CONTROL ANY DLCS ELEMENT OR DEVICE, REMOTE SCHEDULE CHANGES/MIN.IMPLEMENTATIONS, AND REMOTE DLCS COMMISSIONING AND TROUBLESHOOTING. A NETWORKED SYSTEM TOPOLOGY SHALL BE CONFIGURED TO RESPOND TO LOCAL UTILITY DEMAND RESPONSE SIGNALS.

   "NON-NETWORKED" - PROVIDE A SYSTEM-BASED DLCS THAT COULD BE MADE TO COMMUNICATE USING A MANUFACTURER-SPECIFIC DLCS NETWORK, BUT FOR THIS PROJECT IS CONFIGURED WITHOUT ANY NETWORK CONNECTIVITY OR NETWORK COMPONENTS, EXCEPT FOR ANY NETWORK COMPONENTS REQUIRED FOR DUAL MODE CONTROL FOR CORRIDORS, WAREHOUSE AISLES ETC OR WHERE REQUIRED FOR BAS INTEGRATION REQUIRED IN THE DLCS SCHEDULE OR ELSEWHERE IN THE DRAWINGS AND SPECIFICATIONS. IN A "NON-NETWORKED" DLCS, DEMAND RESPONSE CAPABILITY IS NOT REQUIRED.

   "STAND ALONE" - PROVIDE INDIVIDUAL WALL SENSORS/CONTROLS - OPERATING AT 120V OR 277V. GENERALLY, STANDALONE COMPONENT INSTALLATIONS ARE TO BE AVOIDED AND ARE LIMITED TO USE IN SMALL ROOMS WHERE ADVANCED CONTROLS, DIMMING CAPABILITY, DEMAND RESPONSE, DUAL MODE CONTROL AND/OR NETWORK CONNECTIVITY ARE NOT REQUIRED BY APPLICABLE ENERGY CODE AND WHERE ACCEPTABLE TO AN END-USER.

7. WHERE THE DLCS SCHEDULE INDICATES A SPECIFIC "COMMUNICATIONS TOPOLOGY" OPTION, PROVIDE ONE OF THE FOLLOWING:

   "WIRED" - PROVIDE WIRING, AS REQUIRED, TO INTERCONNECT DLCS DEVICES. WIRING MAY BE A COMBINATION OF LOW AND LINE VOLTAGE CONDUCTORS BASED ON SPECIFIC MANUFACTURER REQUIREMENTS.

   "WIRELESS" - PROVIDE WIRELESS CONNECTIVITY BETWEEN WALL CONTROLS, WALL, CEILING OR FIXTURE-INTEGRATED SENSORS, ROOM CONTROLLERS, WIRELESS ROUTER(S), AND WIRELESS NETWORK BRIDGES. CONTRACTOR SHALL PROVIDE WIRELESS ROUTERS, QTY AS REQUIRED, TO MAINTAIN ROBUST COMMUNICATIONS WITH ALL WIRELESS DEVICES. ROBUST MEANS THAT A CHANGE OF VALUE FROM OR TO ANY DLCS SYSTEM COMPONENT FROM OR TO AN APPLICABLE WIRELESS ROUTER/BRIDGE OCCURS IN LESS THAN 3 SECONDS.

   "HYBRID" - WHERE A SOLELY WIRELESS DLCS TOPOLOGY IS DEEMED INADEQUATE BASED ON OPERATIONAL OR AESTHETIC REASONS, A WIRELESS TOPOLOGY SHALL BE AUGMENTED WITH WIRED SYSTEM TO FORM A HYBRID COMMUNICATIONS TOPOLOGY. AREAS REQUIRING WIRED CONNECTIVITY SHALL BE OUTLINED ON THE LIGHTING PLANS AND UNLESS OTHERWISE INDICATED, ALL RESTROOMS SHALL BE PROVIDED WITH DUAL TECHNOLOGY OCCUPANCY SENSORS WHICH REQUIRE WIRED CONNECTIVITY AND WIRED POWER SUPPLY. A NETWORKED, SYSTEM-BASED DLCS INSTALLED WITH A HYBRID COMMUNICATIONS TOPOLOGY SHALL APPEAR IN THE USER GUI/SOFTWARE AS A SINGLE UNIFIED SYSTEM. SEPARATE GUI SOFTWARE INTERFACES FOR THE WIRED AND WIRELESS PORTIONS OF THE DLCS ARE UNACCEPTABLE.

9. WHERE THE DLCS SCHEDULE REQUIRES FIXTURE-INTEGRATED SENSORS, PROVIDE OCCUPANCY AND/OR DAYLIGHT SENSORS INTEGRATED WITHIN SPECIFIED FIXTURE TYPE THAT ALSO INTEGRATE INTO THE DLCS. SEE THE LIGHTING FIXTURE SCHEDULE FOR AFFECTED FIXTURE TYPE(S). WHERE INTEGRATED SENSORS DO NOT MEET OCCUPANCY/DAYLIGHT SENSOR COVERAGE REQUIREMENTS, CONTRACTOR SHALL AUGMENT COVERAGE WITH ADDITIONAL CEILING MOUNTED SENSORS AS REQUIRED AND AS A PART OF THE BASE BID.

10. WHERE THE DLCS SCHEDULE REQUIRES THE DLCS TO INTEGRATE WITH THE PROJECT'S BUILDING AUTOMATION SYSTEM (BAS) - SEE THE DLCS START-UP, BUILDING AUTOMATION SYSTEM (BAS) INTEGRATION, COMMISSIONING, & TRAINING PORTION OF THIS SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

11. WHERE THE DLCS SCHEDULE INDICATES "WIRELESS" OR "HYBRID" COMMUNICATIONS TOPOLOGIES AND ALSO ALLOWS WIRELESS DLCS COMPONENT BATTERY USAGE, PROVIDE BATTERIES WITHIN THE WIRELESS DLCS COMPONENTS INDICATED IN LIEU OF LINE OR LOW VOLTAGE POWER SOURCES.

12. DLCS COMPONENTS SHALL BE PROVIDED AS FOLLOWS:

   a. STANDALONE: WALL MOUNTED OCCUPANCY SENSORS SHALL BE UL LISTED AND HAVE A MINIMUM LOAD CAPACITY OF 800 WATTS AT 120 VOLTS AND 1200 WATTS AT 277 VOLTS. WALL SENSORS SHALL ALSO BE DECORA STYLE, WITH A LOW-PROFILE APPEARANCE AND A HARD LENS FOR DURABILITY. SENSOR SHALL UTILIZE PASSIVE INFRARED TECHNOLOGY (PIR) AND ULTRASONIC/MICROPHONIC TECHNOLOGY. UNIT SHALL BE RATED FOR 120/277 VOLT WITH NO MINIMUM LOAD, COMPATIBLE WITH ALL THE SPECIFIED BALLASTS, PROVIDED WITH A NEUTRAL CONNECTION (NO LEAKAGE TO GROUND) AND NO LEAKAGE TO LOAD IN THE "OFF" MODE. SENSOR SHALL BE UTILIZED IN SPACES NOT EXCEEDING 150 SQ.FT. SINGLE RELAY SENSORS SHALL BE CONFIGURED WITH THE RELAY IN A "MANUAL ON/ AUTO OFF" SETTING. DUAL RELAY SENSORS SHALL BE CONFIGURED WITH THE FIRST RELAY IN A "AUTOMATIC ON/ AUTOMATIC OFF" SETTING AND THE SECOND RELAY IN A "MANUAL ON/ AUTOMATIC OFF" SETTING. FACTORY STANDARD COLOR TO BE APPROVED BY ARCHITECT.

   b. SYSTEM-BASED (NETWORK OR NON-NETWORK): THE OCCUPANCY SENSOR SYMBOL SHALL REPRESENT A LOW VOLTAGE, WALL MOUNTED OCCUPANCY SENSOR CONNECTED TO A CONTROL UNIT(S) AS REQUIRED. SENSOR SHALL BE DECORA STYLE WITH A LOW-PROFILE APPEARANCE, HAVE ON/OFF/RAISE/LOWER BUTTONS, AND A HARD LENS FOR DURABILITY. FACTORY STANDARD COLOR TO BE APPROVED BY ARCHITECT.

      SYSTEM-BASED (NETWORK OR NON-NETWORK) OR STANDALONE CEILING MOUNTED OCCUPANCY SENSORS SHALL SHALL REPRESENT A LOW VOLTAGE, CEILING-MOUNTED OCCUPANCY SENSOR WITH A LOW-PROFILE APPEARANCE AND SHALL BE CONFIGURED IN ONE OF THE FOLLOWING WAYS AS INDICATED ON THE DRAWINGS:

      - AUTO ON: a/b

      - SWITCHED: AUTO ON a / MANUAL ON b

      - CONTINUOUS DIMMED: AUTO ON 50% a / MANUAL ON 100% a

   c. SENSOR(S) SHALL UTILIZE DUAL TECHNOLOGY (PIR AND ULTRASONIC/MICROPHONIC TECHNOLOGY) WITH 360 DEGREE COVERAGE. IN SPACES WITH DESKTOP ACTIVITIES, THE COVERAGE SHALL BE "HAND MOTION" AND SHALL NOT EXCEED 500 SQ. FT. AT A MAXIMUM CEILING HEIGHT OF 10 FT. IN CORRIDORS, STORAGE ROOMS AND OTHER SPACES WITH NON-DESKTOP ACTIVITIES, COVERAGE SHALL BE "HALF-STEP, WALKING MOTION" AND SHALL NOT EXCEED 1200 SQ. FT. AT A MAXIMUM CEILING HEIGHT OF 10 FT. PIR-ONLY WIRELESS OCCUPANCY SENSORS SHALL NOT BE UTILIZED IN RESTROOMS OR LOCKER ROOMS.

   d. "H" AT THE OCCUPANCY SENSOR INDICATES CONNECTION TO AUXILIARY OUTPUT CONTROL DEVICE FOR CONTROL OF A THIRD PARTY DEVICE VIA LOW-VOLTAGE CONTACT CLOSURES - 1 AMP @ 24V AC/DC. NC/NO RELAYS SHALL BE CONNECTED TO A CONTROLLER TO PERFORM THE AUXILIARY CONTROL REQUIREMENTS INDICATED BY THE DRAWINGS.

   e. OCCUPANCY SENSORS LOCATED WITHIN CORRIDORS, HALLWAYS, STAIRWAYS/WELLS, AISLEWAYS WITHIN WAREHOUSE SPACES, AND IN OTHER AREAS PER PLANS AND/OR SOO SHALL BE CONFIGURED TO CREATE DUAL MODE CONTROL FUNCTIONALITY PER THE SOO/ZONE SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL DEVICES AND WIRING REQUIRED FOR DUAL MODE OPERATIONS AND ANY PROGRAMMING/CONFIGURATION OF TIME-BASED OPERATING PARAMETERS. COORDINATE WITH OWNER TO DETERMINE BUSINESS HOUR/AFTER BUSINESS HOUR MODES. IF THE PLANS IDENTIFY A NEW OR EXISTING LIGHTING CONTROL PANEL AS THE SOURCE OF DUAL MODE TIMING, E.C. SHALL INCLUDE ALL COSTS TO INSTALL ANY NECESSARY I/O TERMINALS, CARDS, ETC. TO MAKE THE SYSTEM FULLY FUNCTIONAL.

   f. NETWORK SYSTEM-BASED DLCS SYSTEMS SHALL PROVIDE/RESULT IN "LADDERLESS COMMISSIONING" OF DAYLIGHT CONTROLS. AT A MINIMUM, NETWORK ACQUIRED DATA SHALL PROVIDE CT-BASED LIGHTING POWER (WATTS) MEASUREMENTS PER THE COMMISSIONING PORTION OF THESE REQUIREMENTS. PROVIDE NETWORKED CONTROL UNITS/POWER PACKS/INTERFACES AND MISCELLANEOUS EQUIPMENT AS FOLLOWS:

      1) NETWORK SEGMENT MANAGER OR BORDER ROUTER WITH NATIVE BACnet IP - QUANTITY AS REQUIRED BASED UPON A MAXIMUM OF 100 LOCAL ROOM NETWORKS PER SEGMENT AND A MINIMUM OF ONE SEGMENT MANAGER PER FLOOR. THIS EQUIPMENT SHALL BE LOCATED IN THE TYPICAL FLOOR ELECTRICAL ROOM.

      2) NETWORK BRIDGE CONNECTING THE SEGMENT MANAGER TO THE CONTROLLER SUB/LOCAL NETWORK.

      3) ALL CORRIDORS, WAREHOUSE AISLE WAYS, AND STAIRWELLS SHALL BE PROVIDED WITH DUAL MODE CORRIDOR/STAIRWAY CONTROLS TO INCLUDE CEC-LISTED TIME CLOCK(S), ROUTERS, OR SYSTEM GATEWAYS, INTERPOSING RELAYS (WHEN INTERFACING WITH EXISTING CEC-LISTED RELAY PANELS), WIRING, 120V POWER, PROGRAMMING, ETC. NECESSARY FOR A COMPLETE AND FUNCTIONING CONTROL SYSTEM.

      4) INCLUDE ALL COSTS IN BASE BID TO PROVIDE 120V CIRCUIT(S) AND RECEPTACLE(S) NECESSARY TO POWER ALL DEMAND RESPONSE EQUIPMENT.

      5) PROVIDE DATA OUTLET/PATHWAY, DATA CABLING (IF REQUIRED ELSEWHERE BY PROJECT DOCUMENTS), AND CONNECTION TO THE PROJECT'S LOCAL AREA NETWORK.

      6) INCLUDE ALL COSTS IN BASE BID TO PROVIDE 120V CIRCUIT(S) AND RECEPTACLE(S) NECESSARY TO POWER ALL NETWORK SEGMENT MANAGERS, SWITCHES AND ROUTERS.

      7) DEMONSTRATE DLCS RESPONSE TO A SIMULATED DEMAND RESPONSE REQUEST AS PART OF THE LIGHTING COMMISSIONING PROCESS. WHERE MORE THAN ONE WIRING TOPOLOGY AND/OR ZONE IS REQUIRED TO ACCOMPLISH DEMAND RESPONSE - ALL WIRING TOPOLOGIES AND ZONES SHALL BE TESTED ACCORDINGLY. SEE DLCS SOO FOR POWER REDUCTION PERCENTAGES BY ROOM TYPE THAT SHALL BE UTILIZED IN THE SIMULATED DEMAND RESPONSE TESTING.

   g. WHERE INDICATED ON DRAWINGS, PROVIDE DLCS DAYLIGHTING CONTROLS AS FOLLOWS:

      1) AUTOMATIC SWITCHING DAYLIGHTING CONTROLS SHALL BE PROVIDED TO SWITCH SELECTED FIXTURES AND/OR LAMPS OFF AND ON BASED UPON LIGHTING LEVELS PRESENT IN THE CONTROLLED SPACE. THE DAYLIGHTING CONTROLS SHALL BE CONNECTED TO THE CONTROL UNIT. THE SENSOR SHALL UTILIZE AN INTEGRAL PHOTO DIODE TO MEASURE AMBIENT LIGHT LEVELS. CONTROLS SHALL BE FULLY ADJUSTABLE FROM 1 TO 6,500 FOOTCANDLES AND SHALL BE PROVIDED WITH AN ADJUSTABLE TIME DELAY AND ADJUSTABLE DEAD BAND SETTINGS.

      2) AUTOMATIC DIMMING DAYLIGHTING CONTROLS SHALL BE PROVIDED TO CONTINUOUSLY DIM SELECTED FIXTURES/LAMPS UP AND DOWN BASED UPON LIGHTING LEVELS PRESENT IN THE CONTROLLED SPACE. THE SENSOR SHALL UTILIZE AN INTERNAL PHOTO DIODE TO MEASURE AMBIENT LIGHT LEVELS. 0-10 VOLT DIMMING CONTROLS SHALL RANGE FROM 0.2 VOLTS TO 10 VOLTS, WITH AMBIENT LIGHTING SET POINTS FROM 1-6,500 FOOTCANDLES.

      3) AUTOMATIC DAYLIGHTING CONTROLS SHALL BE CONNECTED TO CONTROL UNITS TO PERFORM THE FIXTURE SWITCHING/DIMMING REQUIREMENTS INDICATED BY THE DRAWINGS - CONNECTIONS DIRECTLY TO A BALLAST ARE NOT ALLOWED.

      4) DAYLIGHT SENSOR SHALL PROVIDE CONTROLS FOR UP TO THREE DISTINCT LIGHTING ZONES TO ALLOW SEPARATE CONTROL OF PRIMARY DAYLIT, SECONDARY DAYLIT, AND SKYLIT ZONES.

   h. PROVIDE CONTROL UNITS AND SYSTEM FUNCTIONALITY AS FOLLOWS:

      1) CONTINUOUS DIMMING CONTROLS: SYSTEM-BASED WALL OR CEILING MOUNTED OCCUPANCY SENSORS (CONTINUOUS DIMMED - AUTO ON 50%/MANUAL ON 100%) SHALL BE PROVIDED WITH CONTROL UNITS TO PERFORM THE FIXTURE DIMMING REQUIREMENTS INDICATED BY THE BALLAST AND FIXTURE TYPE. SWITCH LEG INDICATED OUTSIDE THE PARENTHESIS TO BE CONFIGURED AS "AUTO ON 50%/MANUAL ON 100%" FOR CONTINUOUS DIMMED, SWITCH LEGS INSIDE PARENTHESIS INDICATES A MANUAL ACTION REQUIRED TO INCREASE LIGHTING LEVELS ABOVE 50%. CONTROL UNITS WITH INTEGRAL TRANSFORMERS SHALL BE UTILIZED TO PROVIDE POWER TO OCCUPANCY SENSORS AND OTHER CONTROL DEVICES. CONTROL UNITS SHALL BE LOCATED WITHIN JUNCTION BOXES AND NOT EXPOSED IN THE CEILING SPACE. CONTROL UNIT SHALL BE 120/277 VOLT RATED WITH NO MINIMUM LOAD, COMPATIBLE WITH ALL THE SPECIFIED BALLASTS PROVIDED WITH A NEUTRAL CONNECTION (NO LEAKAGE TO GROUND) AND NO LEAKAGE TO LOAD IN THE "OFF" MODE. ADDITIONAL RELAY ZONES MAY BE REQUIRED FOR THE ADDITION OF PRIMARY DAYLIT, SECONDARY DAYLIT, AND PRIMARY SKYLIT UTILIZING THE SAME CONTROL CHANNEL. (I.E. EVEN THOUGH A SINGLE LETTER "a" IS INDICATED AT THE PRIMARY SENSOR), ADDITIONAL RELAYS WOULD BE REQUIRED FOR THE "a+" (PRIMARY SIDELIT DAYLIT ZONE), "a++" (SECONDARY SIDELIT DAYLIT ZONE), METHOD FOR MORE THAN ONE CIRCUIT/THREE SWITCH LEGS/THREE RELAY ZONES ARE REQUIRED, PROVIDE ADDITIONAL FULL FEATURE CONTROL UNITS AS REQUIRED.

      2) WHERE ADDITIONAL 120/ 277 VOLT DEVICES, RECEPTACLES, OR BRANCH CIRCUITS ARE BEING CONTROLLED BY THE ROOM CONTROLLER, AN ADDITIONAL CONTROL UNIT SHALL BE PROVIDED AS REQUIRED.

      3) THE OCCUPANCY SENSOR CONTROLLED RECEPTACLE BRANCH CIRCUIT RELAY, CONNECTED TO THE SPACE'S DISTRIBUTED LIGHTING CONTROL OCCUPANCY SENSOR RELAY, SHALL TURN ON WHEN THE ROOM IS OCCUPIED, REGARDLESS OF THE CONFIGURATION OF THE LIGHTING CONTROL STATE - I.E. AUTO ON/MANUAL ON. SEE THE DISTRIBUTED LIGHTING CONTROL SPECIFICATION FOR MORE INFORMATION. EVEN THOUGH A SINGLE SYMBOL IS INDICATED, MULTIPLE RELAYS MAY BE REQUIRED TO CONTROL THE REQUIRED NUMBER OF SWITCHLEGS/CIRCUITS.

      4) LOW VOLTAGE WALL CONTROLS SHALL BE DECORA STYLE, LOW-VOLTAGE, MOMENTARY SWITCHES WITH COLOR TO MATCH OTHER WALL DEVICES/SWITCHES. LOWER CASE LETTERS INDICATE SWITCHING CONFIGURATION. PROVIDE SWITCHING OR DIMMING CONTROL DEVICES AS REQUIRED BY DRAWINGS.

         DIMMING - NUMBER OF SWITCHES AS REQUIRED - 4 ZONES/YOKE MAX. EACH CONTROL ZONE TO HAVE A DEDICATED RAISE AND LOWER BUTTONS. FACTORY STANDARD COLOR BY ARCHITECT. EACH MULTI-ZONE DIMMING CONTROL STATION SHALL BE PROVIDED WITH MASTER ON AND MASTER OFF BUTTON IN ADDITION TO THE INDIVIDUAL CONTROL ZONE BUTTONS.

         WHERE INDICATED, PROVIDE VANDAL RESISTANT, HIGH ABUSE SWITCH CONNECTED TO THE DLCS INPUT/OUTPUT INTERFACE DEVICE FOR ON/ OFF AND DIMMING CONTROLS. SWITCHES LOCATED IN HIGH ABUSE AREAS (EXTERIOR AREAS OR AREAS SUBJECT TO WASH-DOWN ETC.) OR IDENTIFIED ON PLANS AS HIGH-ABUSE SWITCHES SHALL BE VANDAL RESISTANT, STAINLESS STEEL, TOUCH SENSITIVE AND AVAILABLE WITH UP TO TWO BUTTONS IN A SINGLE GANG. EACH HIGH ABUSE SWITCH SHALL BE ABLE TO BE PROGRAMMED FOR ON, OFF, TOGGLE OR MAINTAIN OPERATION. SWITCHES MUST BE CAPABLE OF HANDLING ELECTROSTATIC DISCHARGES OF AT LEAST 30,000 VOLTS (1CMSPARK) WITHOUT ANY INTERRUPTION OR FAILURE IN OPERATION.

         WHERE INDICATED, PROVIDE A LOCKING SINGLE POLE SWITCH CONNECTED TO THE ROOM CONTROLLER VIA A INPUT/OUTPUT INTERFACE DEVICE FOR ON/OFF CONTROLS. DIRECT CONNECTION OF THE KEYED SWITCH ON THE LOAD SIDE OF THE CONTROLLER IS PROHIBITED. PROVIDE AT LEAST THREE (3) KEYS TO OWNER AT CONCLUSION OF PROJECT. ADJACENT SWITCH SHALL ONLY BRING LIGHTS FULL ON. KEYED SWITCH ALLOWS MANUAL OFF FUNCTIONALITY. DIMMER SWITCH ALLOWS AUTO-ON 50% OVERRIDE TO 100% ALL-ON AND SHALL NOT ALLOW LIGHTING LEVELS TO DECREASE IN ANY WAY.

   i. WHEN LIGHTING SYSTEM IS INDICATED WITH A CONNECTION TO A REMOTE EMERGENCY POWER SOURCE (I.E. AN INVERTER OR GENERATOR) PROVIDE UL924 LISTED INTERFACE EQUIPMENT TO ALLOW THE OVERRIDE OF THE LOCAL SWITCHING AND/OR DIMMING CONTROLS DURING A POWER OUTAGE.

   j. WHEN LIGHTING FIXTURES/CONTROLS ARE PROVIDED WITH LUTRON 3-WIRE DIMMING BALLASTS, AN INTERFACE DEVICE SHALL BE PROVIDED TO ALLOW 0-10V CONTROL OF LUTRON 3-WIRE DIMMING BALLASTS. MOUNT INTERFACE IN A NEMA1 ENCLOSURE IN ACCESSIBLE CEILING SPACE ADJACENT TO ITS ASSOCIATED CONTROL UNIT.

   k. WHEN LIGHTING FIXTURES/CONTROLS ARE LINE VOLTAGE DIMMED OR PROVIDED ELECTRONIC LOW-VOLTAGE, MAGNETIC LOW-VOLTAGE, NEON/COLD CATHODE, LUTRON "TU-WIRE" DIMMING BALLASTS, AN INTERFACE DEVICE SHALL BE PROVIDED TO ALLOW LINE VOLTAGE CONTROL. MOUNT INTERFACE IN A NEMA1 ENCLOSURE IN ACCESSIBLE CEILING SPACE ADJACENT TO ITS ASSOCIATED CONTROL UNIT.

   l. WHEN AV SYSTEM INTERFACE IS INDICATED, PROVIDE TWO-WAY CAPABLE RS-232 COMMUNICATIONS INTERFACE TO ALLOW AV CONTROL SYSTEM TO CALL ADDRESSABLE LIGHTING/ROOM SCENES. COMMUNICATIONS INTERFACE SHALL PROVIDE FEEDBACK TO THE AV CONTROL SYSTEM FOR LIGHT LEVEL STATUS.

   m. WHEN MOVEABLE PARTITION INTERFACE IS INDICATED, PROVIDE ALL COMPONENTS, SENSORS, WIRING, POWER SUPPLIES AND PROGRAMMING NECESSARY TO MONITOR AND REPORT MOVEABLE PARTITION(S) OPEN/CLOSED STATUS. DLCS SYSTEM SHALL AUTOMATICALLY ADOPT SINGLE ROOM OR MULTI-ROOM CONTROL PROFILES AS REQUIRED BY PARTITION STATUS.

   n. WHEN NETWORKED LIGHTING CONTROL RELAY PANEL(S) ARE INDICATED, PROVIDE ALL COMPONENTS, WIRING, AND PROGRAMMING NECESSARY TO INTEGRATE RELAY PANELS WITHIN THE DLCS SYSTEM.

13. GENERAL SYSTEM REQUIREMENTS:

   a. ALL EQUIPMENT SHALL FEATURE A PRE-SET DEFAULT OPERATION. UPON INITIAL POWER UP, THE SYSTEM SHALL AUTOMATICALLY IDENTIFY THE DEVICES ON THE LOCAL NETWORK, THEN ENTERS THE PRE-SET CONFIGURATION TO ALLOW BASIC OPERATION OF ALL DEVICES. IN MOST APPLICATIONS THE RELATIONSHIP BETWEEN QUANTITY OF LOADS, SWITCHES AND OCCUPANCY SENSORS WILL NOT REQUIRE ANY ADJUSTMENTS - ALTHOUGH AN ADJUSTMENT TO THE AUTOMATIC SETTINGS SHALL BE INCLUDED IN THE BASE BID.

   b. ALL EQUIPMENT SHALL FEATURE A CONFIGURATION (CONFIG) BUTTON ON MOST DEVICES THAT ALLOWS EASY ACCESS TO THE INTEGRATED AUTO-CONFIGURATION TECHNOLOGY TO MODIFY SYSTEM OPERATION. FUNCTIONALITY OF THE CONFIG BUTTON SHALL BE STANDARDIZED THROUGHOUT THE PRODUCT LINE, AS IS THE OPERATION OF THE CONFIG LED INDICATORS.

   c. NETWORK DLCS SYSTEM CONTROL/CONFIGURATION SOFTWARE SHALL BE PRE-CONFIGURED TO THE MAXIMUM EXTENT POSSIBLE OFF-SITE AT THE DLCS FACTORY OR ENGINEERING FACILITY. THE CONTRACTOR SHALL DOCUMENT EVERY NETWORK COMPONENT'S LOCATION (ROOM AND FLOOR NUMBER) AND ITS' RESPECTIVE SERIAL NUMBER OR OTHER DEVICE IDENTIFIER ON A FULL SIZE FLOOR PLAN IN PDF FORMAT. HANDWRITTEN DOCUMENTATION IS UNACCEPTABLE. THE PREFERRED ACCEPTABLE METHOD OF NETWORK COMPONENT DOCUMENTATION IS COLLECTION OF FACTORY-PROVIDED, SELF-ADHESIVE, BAR-CODE IDENTIFIERS DESIGNED TO BE REMOVED FROM NETWORK COMPONENTS AS THEY ARE INSTALLED IN THE FIELD. BAR CODES IDENTIFIERS SHALL BE APPLIED TO A PAPER COPY OF A FLOOR PLAN WHICH SHALL BE PROVIDED TO THE FACTORY FOR USE IN OFF-SITE DLCS NETWORK PROGRAMMING AND CONFIGURATION. THE RESULTS OF EITHER METHOD SHALL BE SCANNED AND SUBMITTED AS A PART OF THE PROJECT CLOSEOUT DOCUMENTATION.

   d. NETWORK SYSTEMS SHALL BE INSTALLED BY VENDOR-CERTIFIED CONTRACTOR FIELD PERSONNEL TO PERFORM NETWORK INSTALLATIONS INCLUDING ACCURATE, REPEATABLE COMMUNICATIONS CABLING TERMINATIONS (BOTH LAN AND MS/TP TYPE). INCLUDE CERTIFICATES FOR EACH CERTIFIED INSTALLER TO BE UTILIZED ON THE PROJECT AS A PART OF THE PROJECT SUBMITTALS. A CERTIFIED FIELD INSTALLER SHALL BE ON-SITE SUPERVISING COMMUNICATIONS CABLING AND CABLING TERMINATIONS AT ALL TIMES WHEN THIS WORK IS OCCURRING ON THE PROJECT.

   e. ANY BATTERY-POWERED DLCS COMPONENTS SHALL BE PROVIDED WITH A 10 YEAR EXPECTED BATTERY LIFE. EACH COMPONENT SHALL BE PROVIDED WITH BOTH A LOCAL LOW BATTERY INDICATION ON EACH DEVICE AND A SOFTWARE-BASED LOW BATTERY ALARM. WHERE A WIRELESS DLCS SYSTEM COMPONENT IS AVAILABLE EITHER AS A BATTERY POWERED DEVICE OR A LINE/LOW VOLTAGE POWERED DEVICE, PROVIDE THE LINE/LOW VOLTAGE VERSION ALONG WITH ANY LINE OR LOW VOLTAGE WIRING, CONDUIT AND BACK BOXES TO LIMIT THE NUMBER OF BATTERIES WITHIN THE DLCS INSTALLATION TO A MINIMUM.

14. INSTALLATION OF CONTROL UNITS, OCCUPANCY/VACANCY SENSORS AND DAYLIGHTING CONTROLS:

   a. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE PER THE MANUFACTURER'S RECOMMENDATIONS. THE SENSOR SHALL PROVIDE NINETY (90) TO ONE HUNDRED (100) PERCENT COVERAGE SHALL ACCOMMODATE ALL HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM. THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS AS REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM. WHERE PIR-ONLY WIRELESS CEILING OR FIXTURE-INTEGRAL OCCUPANCY SENSORS ARE INDICATED, PROVIDE QUANTITY AS REQUIRED TO MAINTAIN THE SAME COVERAGE AND SAME MOVEMENT DETECTION SENSITIVITY AS PROVIDED BY WIRED DUAL TECHNOLOGY SENSORS. ADDITIONALLY, IT MAY BE NECESSARY FOR THE CONTRACTOR TO MAKE ADJUSTMENTS, CHANGE THE LOCATION OR TYPE OF SENSOR TO OBTAIN PROPER COVERAGE. IN THE EVENT OF FACTORY-SUPPLIED PIR (PIR) SHALL NOT PROVIDE COVERAGE IN A SPECIFIC ROOM, THE CONTRACTOR SHALL HAVE FINAL RESPONSIBILITY FOR PROPER OPERATION OF THE SYSTEM IN EACH ROOM AND SHOULD THEREFORE MAKE LABOR ALLOWANCES FOR CHANGES AND ADJUSTMENTS.

   b. CEILING MOUNTED SENSORS SHOULD BE LOCATED IN THE SPACE TO BE COVERED, A MINIMUM OF 4', PREFERABLY 5', AWAY FROM THE LATCH SIDE OF THE DOOR, 2" TO 3" AWAY FROM THE WALL AND 3' TO 4' FROM AN AIR SUPPLY REGISTER. DO NOT MOUNT SENSORS OVER A DOORWAY OR BEHIND A FULL HEIGHT DOOR. SENSORS SHALL BE AIMED IN THE DIRECTION OF THE SPACE TO BE COVERED. DO NOT AIM SENSORS TOWARD A DOORWAY. THE USE OF FACTORY SUPPLIED INTERNAL MASKING (PIR) SHALL BE PROVIDED/INSTALLED AS REQUIRED TO LIMIT DETECTION TO WITHIN THE CONTROLLED SPACE ONLY.

   c. ALL SENSORS SHALL BE ADJUSTED PER THE DLCS SOO/ZONE SCHEDULE. WHERE A ROOM TYPE IS NOT INDICATED ON THE DLCS SOO, ADJUST FOR FOR A TIME DELAY OF TWENTY (20) MINUTES.

   d. EACH DAYLIGHTING CONTROL SYSTEM/ZONE SHALL BE INSTALLED/ADJUSTED AS FOLLOWS:

      1) AUTOMATIC SWITCHING/DIMMING CONTROL PLACEMENT: IT IS IMPORTANT TO SELECT A LOCATION IN THE DAYLIGHTING ZONE WHERE THE DAYLIGHT CONTRIBUTION IS REPRESENTATIVE OF THE DAYLIGHTING THROUGHOUT THE ZONE. A GOOD LOCATION IS OFTEN BETWEEN THE WINDOW AND/OR DAYLIGHTING SOURCE AND THE FIRST ROW OF LIGHTING FIXTURES. AVOID INSTALLATIONS WITHIN 6'-0" OF A W

AREA TYPE	OCC SENSOR					INTERIOR DAYLIGHT SENSOR			EXTERIOR PHOTOCELL		ASTRONOMICAL TIME CLOCK CONTROLS			LOCAL CONTROL			SYSTEM		NOTES	REMARKS
ALL VALUES ARE BASED ON CALIFORNIA TITLE 24 2022 LIGHTING CONTROLFOR NON-RESIDENTIAL BUILDINGS	AUTO ON (WHEN OCCUPANCY DETECTED (PER §130.1(a)1, OR NOMINAL LC)	MANUAL ON (WHEN SWITCH / BUTTON IS PRESSED)	PRIMARY OCCUPANCY SENSOR ZONE REDUCED OUTPUT OR OFF	REDUCED OUTPUT OR OFF DURING NORMAL HOURS	REDUCED OUTPUT OR OFF AFTER NORMAL HOURS	AUTO OFF AT TARGET FC	FIXTURES DIM TO OFF	AUTO DIM AT TARGET FC FIXTURES REWARD ON AT LOWEST LEVEL	TARGET ILLUMINATION LEVEL NOMINAL FOOTCANDLE & METER HEIGHT	EXTERIOR PHOTOCELL ON	EXTERIOR PHOTOCELL OFF	BEGIN NORMAL OPERATING HOURS (ASTRONOMICAL TIME CLOCK TURN ON)	END NORMAL OPERATING HOURS (ASTRONOMICAL TIME CLOCK TURN OFF)	AFTER NORMAL HOURS OVERRIDE CANNOT EXCEED 2 HOURS PER §130.1(c)3.B	ON / OFF	ON / OFF / RAISE / LOWER DIMMING	SCENE SELECTOR (1) SCENE REQUIREMENTS (2) SCENE ALL OFF OPTIONAL (3) SCENE ALL OFF ON "CLOSED"	DEMAND RESPONSE PLUG LOAD CONTROL MUST BE CAPABLE OF RECEIVING DEMAND RESPONSE SIGNAL	LIGHTING REDUCTION FOR SYSTEMS HAVING >4,000W LIGHTING POWER REFER TO TITLE 24 DOCUMENTATION TO CONFIRM IF REQ'D	PROGRAMMING NOTES PLEASE SEE BELOW	
ATRIA	-	-	-	-	-	-	●	10 FC AT FLOOR	-	-	6:00	21:00	●	-	-	○	-	●	J	ALL LIGHTING TRANSITIONS DURING OPERATING HOURS SHALL BE MINIMUM 5-MINUTE FADE TIMES. §130.1(a)2 EXCEPTION 1 - MANUAL CONTROL MAY BE SECURED, OR LOCATED IN ANOTHER LOCATION WITH VISUAL INDICATION OF LIGHTING STATUS.
CLOSET	ON AT 100%	ON AT 100%	OFF AFTER 5 MIN.	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	§130.1(b) EXCEPTION 1 - AN AREA ENCLOSED BY CEILING HEIGHT PARTITIONS THAT HAS ONLY ONE LUMINAIRE WITH NO MORE THAN TWO LAMP DOES NOT REQUIRE MULTI-LEVEL CONTROLS.
CONFERENCE ROOM / MEETING / HUDDLE ROOM	ON AT 70%	ON AT 100%	OFF AFTER 5 MIN.	-	-	-	●	40-50 FC +0" AFF	-	-	-	-	-	-	●	○	●	●	A,C,D,F	
COPY ROOM	ON AT 100%	ON AT 100%	OFF AFTER 5 MIN.	-	-	●	-	30 FC +3'6" AFF	-	-	-	-	-	-	●	-	●	●	A,B,F	
CORRIDOR	ON AT 100%	-	-	DIM 50% AFTER 5 MIN.	OFF AFTER 5 MIN.	-	●	5-10 FC +0" AFF	-	-	06:00	18:00	●	-	●	-	-	●	A,B,C,J,M	§130.1(a)1 EXCEPTION 1 - MANUAL CONTROL MAY BE LOCATED IN A SEPARATE, SECURED LOCATION. PROVIDE DUAL MODE CONTROL PER DLCS SPECIFICATIONS.
ELECTRICAL ROOM, MECHANICAL ROOM, TELECOMMUNICATIONS ROOM	-	-	-	-	-	-	-	'10 FC +5' AFF	-	-	-	-	-	●	-	-	-	-	-	LOCAL TOGGLE SWITCH ONLY
KITCHEN	ON AT 80%	ON AT 100%	OFF AFTER 20 MIN.	-	-	-	●	10-30 FC +30" AFF	-	-	-	-	●	-	●	-	-	●	-	
LOBBY COMMERCIAL TENANT	ON AT 100%	ON AT 100%	-	DIM 50% AFTER 20 MIN	OFF AFTER 20 MIN	-	●	10 FC +0" AFF	-	-	06:00	21:00	●	-	●	○	●	●	A,B,C,D,J M	ALL LIGHTING TRANSITIONS DURING OPERATING HOURS SHALL BE MINIMUM 5-MINUTE FADE TIMES. §130.1(a)2 EXCEPTION 1 - MANUAL CONTROL MAY BE SECURED, OR LOCATED IN ANOTHER LOCATION WITH VISUAL INDICATION OF LIGHTING STATUS.
LOBBY ELEVATOR THRESHOLD	-	-	-	-	-	-	●	10 FC MIN.	-	-	-	-	-	-	-	-	-	-	-	ASME A17.1 §2.11.10.2 -THE ILLUMINATION LEVEL AT THE SILL (THRESHOLD) OF AN ELEVATOR MUST BE 10 FC, WHEN THE ELEVATOR IS IN SERVICE.
OFFICE, LARGE >250 SQ FT	ON AT 70%	ON AT 100%	OFF OR 20% AFTER 20 MIN.			'○	●	40-50 FC +30" AFF	-	-	-	-	-	-	●	○	●	●	A,B,D,F	§130.1(c) 6 - OCCUPANCY CONTROL ZONE SHALL NOT EXCEED 600 SQ/FT PER SENSOR. UNDERCABINET AND FURNITURE MOUNT TASK LIGHTING EXEMPT. WHEN A SINGLE OCC SENSOR ZONE IS OCCUPIED, ALL ADJACENT ZONES REMAIN AT 20%. WHEN ALL ZONES ARE VACANT, 20 MIN. DELAY TO OFF.
OFFICE, SMALL ≤250 SQ FT	ON AT 70%	ON AT 100%	OFF AFTER 20 MIN.			'○	●	40-50 FC +30" AFF	-	-	-	-	-	-	●	○	●	●	A,B,D,F	
OPEN OFFICE / OFFICE KITCHEN AREA / LOUNGE / BREAK ROOM / WORKROOM	ON AT 80%	ON AT 100%	OFF OR 20% AFTER 20 MIN.			'○	●	40-50 FC +30" AFF	-	-	-	-	-	-	●	○	●	●	A,B,D,F	§130.1(c) 6 - OCCUPANCY CONTROL ZONE SHALL NOT EXCEED 600 SQ/FT PER SENSOR. UNDERCABINET AND FURNITURE MOUNT TASK LIGHTING EXEMPT. WHEN A SINGLE OCC SENSOR ZONE IS OCCUPIED, ALL ADJACENT ZONES REMAIN AT 20%. WHEN ALL ZONES ARE VACANT, 20 MIN. DELAY TO OFF.
RESTROOMS (2) OR MORE STALLS	ON AT 100%	-	5 MIN. TO OFF	-	-	-	-	20 FC +15"	-	-	-	-	-	●	-	-	-	-	-	§130.1(b) EXCEPTION 2 - DIMMABLE LUMINAIRES NOT REQUIRED. §130.1(c)5 - [DUAL MODE] OCCUPANCY SENSORS REQUIRED. §130.1(a)1 EXCEPTION 1 - MANUAL CONTROL MAY BE LOCATED IN A SEPARATE, SECURED LOCATION.
RESTROOMS (1) STALL	ON AT 100%	-	5 MIN. TO OFF	-	-	-	-	20 FC +15"	-	-	-	-	-	●	-	-	-	-	-	§130.1(b) EXCEPTION 2 - DIMMABLE LUMINAIRES NOT REQUIRED. §130.1(c)5 - OCCUPANCY SENSORS REQUIRED. §130.1(a) - PROVIDE MANUAL AREA CONTROL IN RESTROOM.
STAIRWELL, INTERIOR ENCLOSED	ON AT 100%	-	50% AFTER 10 MIN	-	-	-	-	10 FC +0" AFF	-	-	-	-	-	●	-	-	-	-	-	§130.1(a)1 EXCEPTION 1 - MANUAL CONTROL MAY BE LOCATED IN A SEPARATE, SECURED LOCATION.
STAIRWELL, EXTERIOR	-	-	-	-	-	-	-	10 FC +0" AFF	ON 100% AT DUSK	OFF AT DAWN	ON 100% AT DUSK	OFF AT DAWN	-	●	-	-	-	-	-	§130.1(a)1 EXCEPTION 1 - MANUAL CONTROL MAY BE LOCATED IN A SEPARATE, SECURED LOCATION. §130.2(C)3 EXCEPTION 2 - APLLICATIONS LISTED AS EXEMPTIONS FROM SECTION 140.7 [INCLUDING EXTERIOR STAIRS] ARE NOT REQUIRED TO HAVE MOTION SENSING CONTROLS. CHOOSE CONTROL: LIGHTING MAY BE CONTROLLED FROM TIME CLOCK, EXTERIOR PHOTOCELL OR BOTH.
EXTERIOR LIGHTING, TIMECLOCK / PHOTOCELL CONTROL																				
ATM (EXTERIOR)	-	-	-	-	-	-	-	-	ON 100% AT DUSK	OFF AT DAWN	ON 100% AT DUSK	OFF AT DAWN	-	-	-	-	-	-	-	CA FINANCIAL CODE DIV. 4, CHAPTER 4, §13041 10 FC AT FACE OF ATM TO 5 FEET OUT, 2 FC TO 50 FEET OUT; 60 FEET IF THE PARKING AREA IS DEFINED FOR ATM USE. IT ATM LOCATED WITHIN 10FT OF CORNER OF BUILDING, 2 FC EXTENDS 40 FT ALONG SIDE OF BUILDING.
EXTERIOR LIGHTING >24 FT TALLER THAN 24 FT	-	-	-	-	-	-	-	-	●	-	PERIOD 1: ON 100% AT DUSK - PERIOD 2: DIM 80% AT 24:00	OFF AT DAWN	●	-	-	-	-	-	J, L, M	§130.2(c) LIGHTS SHALL BE OFF DURING DAYTIME; LIGHTS SHALL BE AUTOMATICALL CONTROLLED BY TIME-BASED SCHEDULING CONTROLS. §130.2(c)2B - AUTOMATIC SCHEDULING CONTROLS SHALL ALLOW SCHEDULING OF MIN. OF TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS.... OCCUPANCY SENSOR NOT REQUIRED
EXTERIOR LIGHTING ≥24 FT & <40W 24 FT OR SHORTER 40W OR LESS	-	-	-	-	-	-	-	-	●	●	PERIOD 1: ON 100% AT DUSK - PERIOD 2: DIM 50% AT 24:00	OFF AT DAWN	●	-	-	-	-	-	J,L,M	§130.2(c) LIGHTS SHALL BE OFF DURING DAYTIME; LIGHTS SHALL BE AUTOMATICALL CONTROLLED BY TIME-BASED SCHEDULING CONTROLS. §130.2(c)2B - AUTOMATIC SCHEDULING CONTROLS SHALL ALLOW SCHEDULING OF MIN. OF TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS.... §130.2(c)3 - LUMINAIRES WITH A MAXIMUM RATED WATTAGE OF 40W EACH ARE NOT REQUIRED TO HAVE MOTION SENSING CONTROLS.
EXTERIOR FAÇADE & OUTDOOR DINING	-	-	-	-	-	-	-	-	●	●	PERIOD 1: ON 100% AT DUSK - PERIOD 2: DIM 50% AT 02:30	OFF AT DAWN	●	-	-	-	-	-	J,L,M	§130.2(C) LIGHTS SHALL BE OFF DURING DAYTIME; LIGHTS SHALL BE AUTOMATICALL CONTROLLED BY TIME-BASED SCHEDULING CONTROLS. §130.2(c) 3 NO MORE THAN 1,500W OF LIGHTING CONTROLLED FROM A SINGLE SENSOR. §130.2(c)3DI - EXTERIOR FACADE & OUTDOOR DINIUNG ARE EXEMPT FROM MOTION SENSOR REQUIREMENT.
LANDSCAPE LIGHTING, ORNAMENTAL HARDSCAPE LIGHTING	-	-	-	-	-	-	-	-	●	●	PERIOD 1: ON 100% AT DUSK - PERIOD 2: DIM 50% AT 24:00	OFF AT DAWN	-	-	-	-	-	-	J,M	§130.2(C) LIGHTS SHALL BE OFF DURING DAYTIME; LIGHTS SHALL BE AUTOMATICALLY CONTROLLED BY TIME-BASED SCHEDULING CONTROLS. §130.2(c) 3 NO MORE THAN 1,500W OF LIGHTING CONTROLLED FROM A SINGLE SENSOR. §130.2(c)3 - LUMINAIRES WITH A MAXIMUM RATED WATTAGE OF 40W EACH ARE NOT REQUIRED TO HAVE MOTION SENSING CONTROLS.

PROGRAMMING NOTES

NOTES: A. PROVIDE DAYLIGHTING CONTROL FOR PRIMARY AND SECONDARY DAYLIT OR SKYLIT ZONES WERE REQUIRED. DAYLIGHTING IS NOT NECESSARY WHEN AREAS DO NOT INCLUDE SKYLIGHTS OR GLAZING < 24 SQ.FT OR SKYLIT+PRIMARY SIDELIT ZONE IS LESS THAN 120W. LUMINAIRES IN OR AT LEAST 50% WITHIN DAYLIGHTING ZONES MUST BE CONTROLLED.

B. CONTROLLED BY OCCUPANCY SENSOR: AUTO AND / OR MANUAL ON UNLESS OVERRIDDEN BY DAYLIGHTING SENSORS.
C. MANUAL CONTROL WALL STATIONS FOR THESE AREAS SHALL BE LOCATED IN THE NEAREST BACK OF HOUSE CLOSET, CONTROL BOOTH, ELECTRICAL ROOM, ETC. TO PREVENT UNAUTHORIZED USERS FROM ADJUSTING LIGHTING LEVELS.

D. CONFIGURE LIGHTING CONTROL TO PROVIDE PROPORTIONATE RAISE / LOWER OF ALL ROOM LIGHTING TOGETHER, REGARDLESS OF LOCATION IN DAYLIGHTING AND NON-DAYLIGHTING ZONES WHERE THEY OCCUR.
E. PROVIDE RS-232 OR ETHERNET CONNECTION TO AV SYSTEM TO ALLOW RECALL OF LIGHTING PRESETS BY AV SYSTEM WITHIN THIS ROOM, IF REQUESTED BY OWNER.
F. PROVIDE CONTROLLED RECEPTACLES IN THIS ROOM AS REQUIRED. CONTROLLED RECEPTACLE MUST BE WITHIN 6'-0" OF UNCONTROLLED RECEPTACLE.
G. PROVIDE AUTOMATIC TRANSFER RELAY, BRANCH CIRCUIT ELTS OR OTHER APPROVED METHOD WITH FACP INPUT TO FORCE LIGHTS ON TO FULL DURING LOSS OF NORMAL POWER OR DURING A FIRE ALARM EVENT. UNLESS SPECIFIED WITH A MANUAL EMERGENCY CONDITION RELEASE, LIGHTING SHALL RESTORE TO NORMAL OPERATION WHEN POWER IS RESTORED OR ALARM CONDITION IS CLEARED.

H. LIGHTING IN THIS SPACE MAY BE CONTROLLED FROM A STAGE LIGHTING SYSTEM. THE STAGE LIGHTING SYSTEM SHALL BE PROVIDED WITH A TITLE 24 COMPLIANT LIGHTING CONTROL PROCESSOR AND COMPATIBLE OCCUPANCY AND DAYLIGHT SENSORS AS REQUIRED FOR COMPLIANCE.
I. NOT USED
J. CONFIRM OPERATING HOURS WITH OWNER PRIOR TO FINAL PROGRAMMING.
K. REQUIRES CONNECTION TO BUILDING AUTOMATION SYSTEM (BAS) WHEN SUCH SYSTEM IS PRESENT.
L. FIXTURES WITHOUT OCCUPANCY SENSORS SHALL HAVE LOW END TRIM ADJUSTED TO MAINTAIN MINIMUM ILLUMINATION LEVELS.
M. LIGHTING CONTROL SYSTEM SHALL HAVE ASTRONOMICAL TIME CLOCK AND DUAL MODE CAPABILITY FOR "AFTER HOURS" CONTROL OF LIGHTING.
N. PERFORMANCE SPACE, NO DAYLIGHTING REQUIRED. TARGET ILLUMINATION LISTED ONLY FOR REFERENCE IN THIS COLUMN.

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RAYMOND W. GRATZINGER No. E15610 12/31/2025 ELECTRICAL ARE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

SEQUENCE OF OPERATIONS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E4.4

Login Name: JSPICTP0201
Plot Date: October 06, 2025 - 3:04 pm
File Name: P:\2021\21635\166200 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E4.4.dwg
ARCH D1 = 24"x36" Title Block

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 5 of 8)**
	Date Prepared:	10/9/2024

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

Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
STORAGE	All Other Space Types	0.4	1,264	505.6	No	No
ASSEMBLY	Auditorium	0.7	4,686	3,280.2	No	No
CONFERENCE	Convention, Conference, Multipurpose and Meeting Center	0.75	1,158	868.5	No	No
HALLWAY	Corridor	0.4	202	80.8	No	No
KITCHEN	Kitchen/ Food Preparation	0.95	562	533.9	No	No
LOBBY	Main Entry Lobby	0.7	838	586.6	No	No
OFFICE < 250 SQ/FT	Office (<=250 square feet)	0.65	25	16.2	No	No
OFFICE > 250 SQ/FT	Office (>250 square feet)	0.6	271	162.6	No	No
RESTROOM	Restroom	0.65	432	280.8	No	No
STORAGE	All Other Space Types	0.4	488	195.2	No	No
STORAGE	All Other Space Types	0.4	1,433	573.2	No	No
MECHICAL ROOM	Electrical Mechancial Telephone Room	0.4	280	112	No	No
		TOTALS:	11,639	7,195.6	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 3 of 8)**
	Date Prepared:	10/9/2024

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
1	1 - 2'X4' LED TROFFER	No	NA	31.2	Mfr. Spec	49	No	1,528.8	☐	☐
10	10 - 1'X4' SURFACE MOUNT LED	No	NA	30	Mfr. Spec	6	No	180	☐	☐
11	11 - EXISTING WALL SCONCE	No	NA	14	Mfr. Spec	8	No	112	☐	☐
3	3 - 4' LED STRIPLIGHT	No	NA	16	Mfr. Spec	9	No	144	☐	☐
4	4 - 8' LED STRIPLIGHT	No	NA	50	Mfr. Spec	12	No	600	☐	☐
5	5 - 6" LED RECESSED DOWNLIGHT	No	NA	14.5	Mfr. Spec	28	No	406	☐	☐
6	6 - 6" LED RECESSED DOWNLIGHT	No	NA	46	Mfr. Spec	72	No	3,312	☐	☐
7	7 - 2" LED LINEAR RECESSED PER/FT	No	NA	6.8	Mfr. Spec	24	No	163.2	☐	☐
8	8 - 2" LED PENDANT	No	NA	27	Mfr. Spec	1	No	27	☐	☐
9	9 - EXISTING LED DECORATIVE PENDANT	No	NA	50	Mfr. Spec	6	No	300	☐	☐
S3	S3 -TWIN FLOODLIGHT LED	No	NA	23.6	Mfr. Spec	2	No	47.2	☐	☐
					Total Designed Watts: CONDITIONED SPACES			6,820		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 1 of 8)**
Project Address: 1620 Solano Street	**Date Prepared:**	10/9/2024

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Corning	04 Total Conditioned Floor Area (ft²)	11,639
02	Climate Zone	11	05 Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

● Auditorium ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	11639	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	11639		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 6 of 8)**
	Date Prepared:	10/9/2024

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

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

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 4 of 8)**
	Date Prepared:	10/9/2024

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Whole Building	All Other Space Types	Readily Accessible	Dimmer	See Building Level	Included	Included	No	☐	☐
							13		
							Plan Sheet Showing Daylit Zones:		

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

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

Conditioned Spaces

01	02	03	04	05	06

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 2 of 8)**
	Date Prepared:	10/9/2024

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned		7,195.6	0		=	7,196	≥	6,820	0	=	6820	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.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 7 of 8)**
	Date Prepared:	10/9/2024

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Whole Building;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

TITLE 24 PROCEDURES FOR TESTING AND ADJUSTING

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTIONS 13.1.2.2 AND 13.1.2.3.

LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-02-A DOCUMENTS.

AUTOMATIC DAYLIGHT CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-03-A DOCUMENTS.

DEMAND RESPONSE LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-04-A DOCUMENTS.

INSTITUTIONAL TUNING PAF ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-05-A DOCUMENTS.

OUTDOOR LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTO-02-A DOCUMENTS.

ALL LIGHTING CONTROLS TESTING AND ADJUSTING DOCUMENTS NOTED ABOVE ARE AVAILABLE FROM THE CALIFORNIA ENERGY COMMISSION WEB SITE AT:
https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-5

TITLE 24 GENERAL NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTION 14.1.2.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS SECTIONS 10-103(a)3A AND 10-103(a)3B AND SECTION 130.4 FOR MORE INFORMATION.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL CHAPTER 14 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS RESIDENTIAL COMPLIANCE MANUAL CHAPTER 2 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

PROVIDE COMPLETED INSTALLATION CERTIFICATE(S) AND CERTIFICATE(S) OF ACCEPTANCE AS REQUIRED TO THE SATISFACTION OF THE ENFORCEMENT AGENCY.

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951.299.4160 www.tk1sc.com
Project Leader - Jerry Leonhardt
Project Leader - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RICHARD P. SHAFFER No. E15610 12/31/2025 ELECTRICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TITLE 24

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E4.5

Login Name: USRC\ZQ201
Plot Date: October 06, 2025 - 3:05 pm
File Name: P:\2021\B2305166.000 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E4.5.dwg
XREFs: x-Arch_Clip Sheet

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	10/9/2024

H. OUTDOOR LIGHTING CONTROLS

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

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

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	10/9/2024

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv														Compliance Results		
01		02		03		04		05		06		07		08	09	
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**	
706	+	---	+	---	+	---	+	---	OR	---	=	706	≥	654	COMPLIES	
Shielding Compliance (See Table G for Details)															N/A	
Controls Compliance (See Table H for Details)															Not applicable	

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 8 of 8)**
Project Address: 1620 Solano Street	**Date Prepared:**	10/9/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ray Swartz	Documentation Author Signature:
Company: WSP USA	Signature Date: 2024-10-09
Address: 15231 Laguna Canyon Road Suite 100	CEA/ HERS Certification Identification (if applicable): E15610
City/State/Zip: Irvine CA 92618	Phone: 949-751-5800

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: Ray Swartz	Responsible Designer Signature:
Company: WSP / tk1sc	Date Signed: 2024-10-09
Address: 15231 Laguna Canyon Road, Suite 100	License: E15610
City/State/Zip: Irvine CA 92618	Phone: 949-751-5800

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	10/9/2024

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

01				
☒ 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 for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)		Linear Wattage Allowance (LWA)				Total General AWA + LWA (Watts)
	Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
PARKING LOT	19724	0.019	374.8	635	0.2	95.2	470
ENTRY 117 WALKWAY	196	0.019	3.7	215	0.2	32.2	36
Initial Wattage Allowance for Entire Site (Watts):							200
Instances of Initial Wattage Allowance (LZ 0 only)[1]							
Total General Hardscape Allowance (Watts):							706

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
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 3 of 7)**
	Date Prepared:	10/9/2024

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)[4]	Field Inspector	
										Pass	Fail
S1	S1 - SINGLE LUMINARE LED POLE MOUNTED	☐ Linear	105	Mfr. Spec	6	New	☐	630	NA: < 6200 lumens	☐	☐
S3	S3 -TWIN FLOODLIGHT LED	☐ Linear	23.6	Mfr. Spec	1	New	☐	23.6	NA: < 6200 lumens	☐	☐
							Total Design Watts:	654			

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

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

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 1 of 7)**
Project Address: 1620 Solano Street	**Date Prepared:**	10/9/2024

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

A. GENERAL INFORMATION

01	Project Location (city)	Corning	04	Total Illuminated Hardscape Area (ft^2)	19920
02	Climate Zone	11			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐ LZ-0: Very Low - Undeveloped Parkland		☒ LZ-2: Moderate - Urban Clusters		☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐ LZ-1: Low - Rural Areas		☐ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
● Auditorium ● Office ● Support Areas ● All Other Occupancies					

B. PROJECT SCOPE

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

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Tehama County Corning Veteran's Hall	**Report Page:**	**(Page 6 of 7)**
	Date Prepared:	10/9/2024

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

TITLE 24 PROCEDURES FOR TESTING AND ADJUSTING

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTIONS 13.1.2.2 AND 13.1.2.3.

LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-02-A DOCUMENTS.

AUTOMATIC DAYLIGHT CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-03-A DOCUMENTS.

DEMAND RESPONSE LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-04-A DOCUMENTS.

INSTITUTIONAL TUNING PAF ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-05-A DOCUMENTS.

OUTDOOR LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTO-02-A DOCUMENTS.

ALL LIGHTING CONTROLS TESTING AND ADJUSTING DOCUMENTS NOTED ABOVE ARE AVAILABLE FROM THE CALIFORNIA ENERGY COMMISSION WEB SITE AT:
https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-5

TITLE 24 GENERAL NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTION 14.1.2.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS SECTIONS 10-103(a)3A AND 10-103(a)3B AND SECTION 130.4 FOR MORE INFORMATION.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL CHAPTER 14 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS RESIDENTIAL COMPLIANCE MANUAL CHAPTER 2 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

PROVIDE COMPLETED INSTALLATION CERTIFICATE(S) AND CERTIFICATE(S) OF ACCEPTANCE AS REQUIRED TO THE SATISFACTION OF THE ENFORCEMENT AGENCY.

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951.299.4160 www.tk1sc.com

Project Leader - Jerry Leonhardt
Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER
RAYMOND P. SWARTZER
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TITLE 24

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E4.6

Login Name: LSRC70291
Plot Date: October 08, 2025 - 3:06 pm
File Name: P:\2021\21065\R6\00 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E4-6.dwg
RSFS X-CTL-L-Tile Black

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Tehama County Corning Veteran's Hall	**Report Page:** (Page 7 of 7)
Project Address:	1620 Solano Street	**Date Prepared:** 10/9/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ray Swartz	Documentation Author Signature:
Company: WSP USA	Signature Date: 2024-10-09
Address: 15231 Laguna Canyon Road Suite 100	CEA/ HERS Certification Identification (if applicable): E15610
City/State/Zip: Irvine CA 92618	Phone: 949-751-5800

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: Ray Swartz	Responsible Designer Signature:
Company: WSP / tk1sc	Date Signed: 2024-10-09
Address: 15231 Laguna Canyon Road, Suite 100	License: E15610
City/State/Zip: Irvine CA 92618	Phone: 949-751-5800

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Generated Date/Time:

Report Version: 2022.0.000
Schema Version: rev 20220101

Documentation Software: EnergyPro

Compliance ID: EnergyPro-2945-1024-4362
Report Generated: 2024-10-09 13:42:47

TITLE 24 PROCEDURES FOR TESTING AND ADJUSTING

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTIONS 13.1.2.2 AND 13.1.2.3.

LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-02-A DOCUMENTS.

AUTOMATIC DAYLIGHT CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-03-A DOCUMENTS.

DEMAND RESPONSE LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-04-A DOCUMENTS.

INSTITUTIONAL TUNING PAF ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTI-05-A DOCUMENTS.

OUTDOOR LIGHTING CONTROL ACCEPTANCE TESTING AND ADJUSTING PROCEDURES - REFER TO NRCA-LTO-02-A DOCUMENTS.

ALL LIGHTING CONTROLS TESTING AND ADJUSTING DOCUMENTS NOTED ABOVE ARE AVAILABLE FROM THE CALIFORNIA ENERGY COMMISSION WEB SITE AT:
https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-5

TITLE 24 GENERAL NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ASSOCIATED WITH FINAL INSPECTION AND APPLICABLE ACCEPTANCE REQUIREMENT PROCEDURES. INCLUDE ALL COSTS IN THE BASE BID. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION INSPECTION, MEASUREMENTS, MONITORING, FUNCTIONAL TESTING, CALIBRATING, ETC. CONTRACTOR SHALL ASSUME THE ROLE OF "FIELD TECHNICIAN" AND "RESPONSIBLE PERSON" AS DEFINED IN STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL SECTION 14.1.2.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS SECTIONS 10-103(a)3A AND 10-103(a)3B AND SECTION 130.4 FOR MORE INFORMATION.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS NONRESIDENTIAL COMPLIANCE MANUAL CHAPTER 14 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

SEE STATE OF CALIFORNIA 2022 BUILDING ENERGY EFFICIENCY STANDARDS RESIDENTIAL COMPLIANCE MANUAL CHAPTER 2 FOR MORE DETAILED REQUIREMENTS / INFORMATION.

PROVIDE COMPLETED INSTALLATION CERTIFICATE(S) AND CERTIFICATE(S) OF ACCEPTANCE AS REQUIRED TO THE SATISFACTION OF THE ENFORCEMENT AGENCY.

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Project Leader - Jerry Leonhardt
Project Leader - Derek Schmidt
WSP Job #: B2305166.000

LICENSE STAMPS

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TITLE 24

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E4.7

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Plot Date: October 06, 2025 - 3:07 pm
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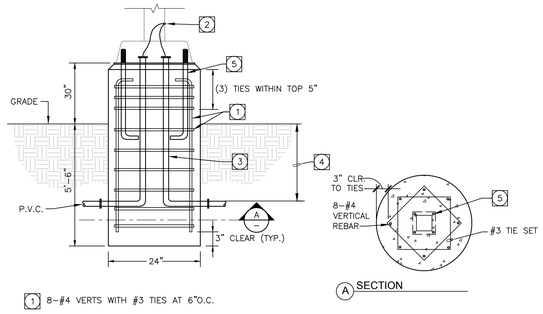


1 8-#4 VERTS WITH #3 TIES AT 6"O.C.

2 BOND EQUIPMENT GROUND TO POLE.

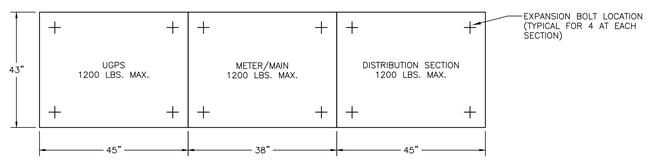
3 BRANCH CIRCUIT CONDUIT PER SITE PLAN.

4 PROVIDE MINIMUM COVER OF 24" FROM FINISH GRADE.

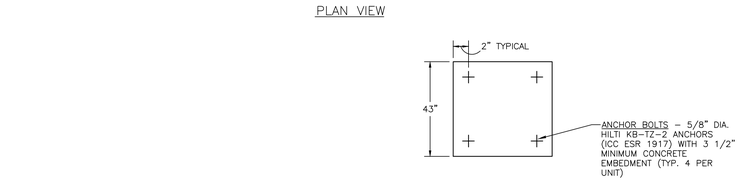
5 3/4" x 25" POLE ANCHOR BOLTS, SPACING TO MATCH MANUFACTURER'S BASE PLATE.

RAISED POLE BASE DETAIL

SCALE: N.T.S. — 5

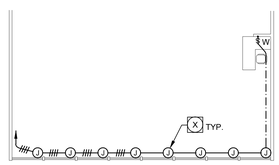


PLAN VIEW

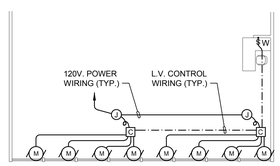


SWITCHBOARD / INVERTER ANCHORAGE DETAIL

SCALE: N.T.S. — 6



TYPICAL SYSTEM AS SHOWN



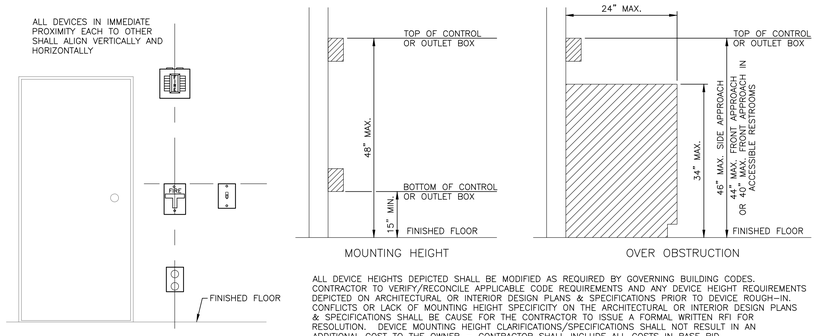
TYPICAL FIELD WIRING

PLAN NOTES:

X CONNECT TO MOTORIZED SHADES AS REQUIRED. PROVIDE ALL J-BOXES, LOW VOLTAGE AND LINE VOLTAGE CONTROLS, CONDUIT, CONDUCTORS, SIZED AND INSTALLED PER MOTORIZED SHADE MANUFACTURER'S REQUIREMENTS FOR A COMPLETE AND OPERABLE MOTORIZED SHADE SYSTEM. COORDINATE INSTALLATION REQUIREMENTS WITH SHADE INSTALLER PRIOR TO ROUGH-IN. INCLUDE ALL COSTS IN BASE BID.

WINDOW SHADE DIAGRAM (L.V.)

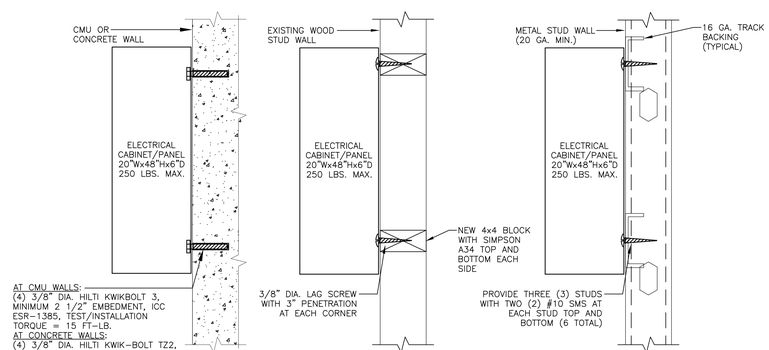
SCALE: N.T.S. — 7



ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN RFI FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER – CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

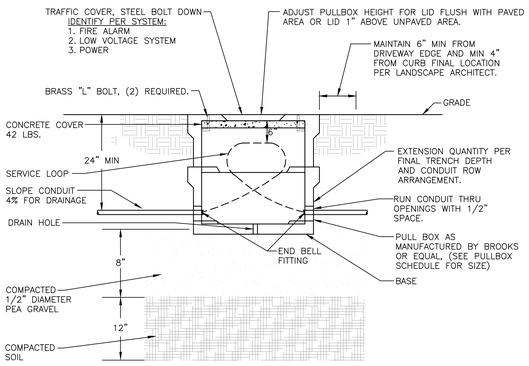
DEVICE ALIGNMENT & MOUNTING HEIGHT DETAILS

SCALE: N.T.S. — 1



SURFACE PANEL MOUNTING

SCALE: N.T.S. — 2

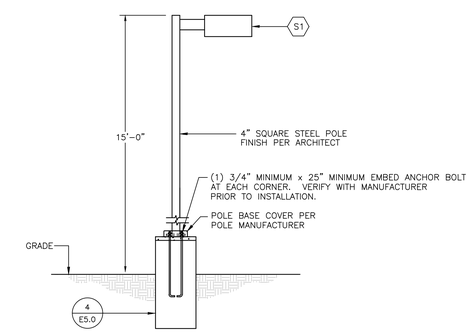


PULL BOX NOTES

1. ALL BOXES SHALL BE SET ON A MINIMUM 8" GRAVEL BASE WITH 1/2" DIAMETER PEA GRAVEL.
2. ALL INCIDENTAL CONCRETE SHALL BE REMOVED FROM BOXES.
3. PROVIDE WATERTIGHT SPLICES AND CAPS FOR POWER CONDUCTORS.
4. PROVIDE SEALING GEL IN ALL CONDUITS (BOTH W/ CONDUCTORS AND IN EMPTY SPARE CONDUITS.) THE GEL SHALL BE INSERTED IN THE CONDUIT TO A DEPTH OF 6" AND FLUSH W/ THE END OF THE CONDUIT. THE GEL SHALL BE MANUFACTURED BY 3M #4442 RE-ENTERABLE ENCAPSULANT.
5. PROVIDE IDENTIFYING TAGS ON ALL POWER AND COMMUNICATION CONDUCTORS IN PULLBOXES.
6. PULLBOX SHALL BE SIZED PER N.E.C. REQUIREMENTS.

PULL BOX DETAIL

SCALE: N.T.S. — 3



POLE MOUNTED FIXTURE DETAIL

SCALE: N.T.S. — 4

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Project Leader - Jerry Leonhardt
Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RAYMOND W. SIBBETT No. E15610 12/31/2025 STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1820 SOLANO ST.
CORNING, CA

SHEET TITLE

MISCELLANEOUS DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E5.0

Login Name: LBRACTIQ291
Plot Date: October 06, 2025 - 3:08 pm
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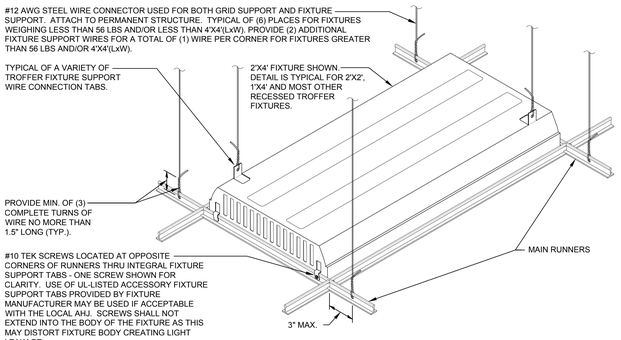
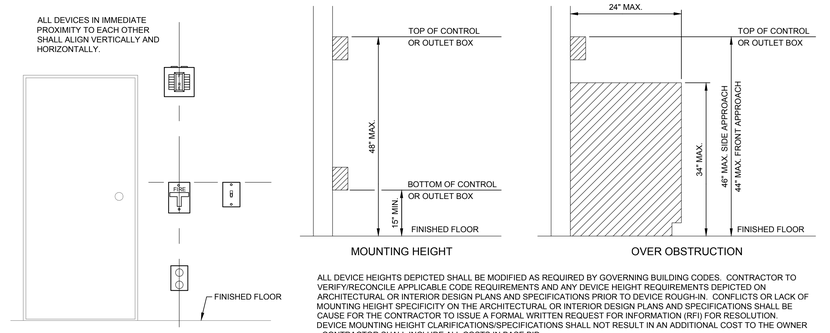
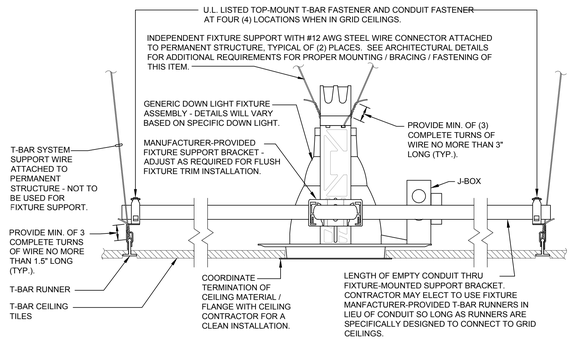


2 FIXTURE SUPPORT DETAIL
SCALE: NTS

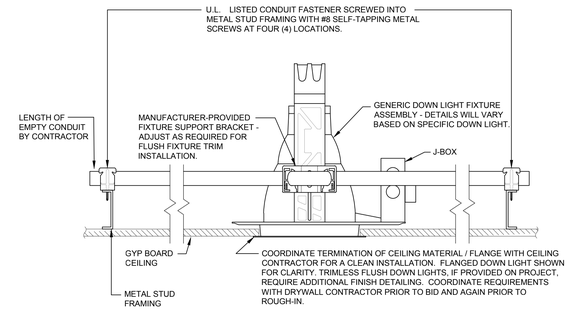


ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS AND SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS AND SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN REQUEST FOR INFORMATION (RFI) FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER - CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

1 DEVICE ALIGNMENT & MOUNTING HEIGHT DETAILS
SCALE: NTS



4 DOWN LIGHT FIXTURE SUPPORT DETAIL (T-BAR)
SCALE: NTS



3 DOWN LIGHT FIXTURE SUPPORT DETAIL (HARD LID)
SCALE: NTS

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Project Leader - Jerry Leonhardt
Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RAYMOND W. GRATZER No. E15610 12/31/2025 ELECTRICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

MISCELLANEOUS DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E5.1

Login Name: LBRC\TDD91
Plot Date: October 06, 2025 - 3:09 pm
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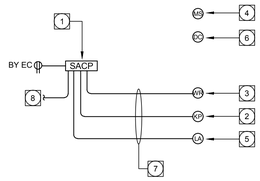


SECURITY ALARM SYSTEM KEY NOTES:

1. SECURITY ALARM TERMINAL CABINET PER SPECIFICAITONS COMPLETE WITH LOCK KIT, TERMINAL STRIPS, MODULES, POWER SUPPLY(S), POPITS, BATTERIES, RJ31X JACK FOR ANALOG DIAL TONE CONNECTION, AND ALL OTHER COMPONENTS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. SECURITY ALARM KEYPAD COMPLETE, PER SPECIFICATIONS. QUANTITY AND LOCATIONS PER PLAN DRAWINGS.
3. WALL-MOUNTED COMMERCIAL WIRELESS RECEIVER PER SPECIFICATIONS. QUANTITY AND LOCATIONS PER PLAN DRAWINGS.
4. WIRELESS WALL-MOUNTED PIR MOTION SENSOR PER SPECIFICATIONS. QUANTITY AND LOCATIONS PER PLAN DRAWINGS.
5. SURFACE-MOUNTED LOCAL ALARM HORN PER SPECIFICATIONS. QUANTITY AND LOCATIONS PER PLAN DRAWINGS.
6. WIRELESS SURFACE-MOUNTED DOOR CONTACTS (POSITION SENSOR) AND TRANSMITTER, PER SPECIFICATIONS. QUANTITY AND LOCATIONS PER PLAN DRAWINGS.
7. CONCEALED DEVICE CABLING PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. PROVIDE NON-METALLIC SURFACE MOUNTED WIREMOLD-TYPE RACEWAY IN OPEN CEILING AND HARD LID AREAS.
8. PROVIDE NEW 4-PAIR UTP CAT-6 CABLE AND EXTEND EXISTING ANALOG TELEPHONE LINE TO PANEL. CONNECT TO DIALER'S RJ31X MODULE. COORDINATE CONNECTIVITY WITH OWNER IN THE FIELD. INCLUDE ALL COSTS IN BASE BID.

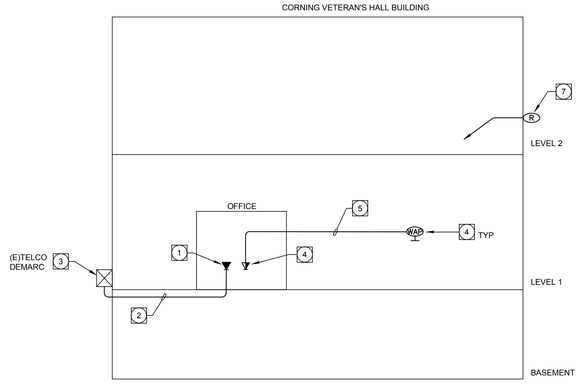
SECURITY ALARM SYSTEM GENERAL NOTES:

1. CONTRACTOR'S WORK INCLUDES TO PROVIDE ALL COMPONENTS, SOFTWARE, PROGRAMMING, CONFIGURATIONS, CONTROL PANEL, ZONE EXPANDERS, MODULES, TERMINAL CABINETS, BATTERIES, POWER SUPPLIES, DEVICES, MATERIAL, WIRING, CONDUIT / SLEEVE FIRE STOPPING, LABOR, EQUIPMENT, SUPPLIES, LABELS, TESTING ACCESSORIES AND TRAINING REQUIRED FOR A COMPLETE AND FULLY FUNCTIONING SECURITY DETECTION ALARM SYSTEM.
2. ALL CABLING SHALL BE BY MANUFACTURERS REQUIREMENTS UNLESS OTHERWISE NOTED IN DISTRICT SPECIFICATIONS.
3. ALL EXTERIOR / UNDERGROUND CABLE TO BE WET LOCATION RATED. ALL CABLING SHALL BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED, PER CALIFORNIA ELECTRICAL CODE AND TIA-568-C.
4. PROVIDE ZONE EXPANDERS AS REQUIRED FOR MOST EFFICIENT AND ECONOMICAL DISTRIBUTION AND EXPANSION (ONE POINT / ZONE PER MOTION DETECTOR AND DOOR CONTACT).
5. ALL DEVICES ARE TO BE WIRED INDEPENDENTLY, NO LOOPS FOR DATA, DEVICE OR POWER.
6. MOTION DETECTORS SHALL BE WIRELESS AND INCLUDE ALL TRANSMITTERS, MOUNTS, BATTERIES, ETCETERA, AND BE AIMED FOR BEST COVERAGE AS INDICATED ON THE PLAN DRAWINGS.
7. SURFACE MOUNTED DOOR CONTACTS SHALL BE WIRELESS AND INCLUDE ALL TRANSMITTERS, MOUNTS, BATTERIES, ETCETERA.
8. COORDINATE SYSTEM CONTROL PANEL LOCATION IN FIELD WITH OWNER AND ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.
9. LABEL ALL CABLES WITH ROOM NAME / LOCATION ON PLASTIC COATED CABLE MARKERS WRAPPED AROUND CABLE AT EACH END AND IN EACH TERMINAL CABINET.
10. CONTRACTOR SHALL PROGRAM ALL ZONES ACCORDING TO OWNER'S DIRECTIONS. SEE OWNER'S PROJECT MANAGER FOR IDENTIFICATION OF ALL ZONE AREAS.
11. PROVIDE CONDUIT OR SURFACE MOUNTED NON-METALLIC RACEWAY IN ALL HARD-LID, OPEN-CEILING, AND NON-ACCESSIBLE CEILING LOCATIONS.
12. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
13. REFERENCE NEC ARTICLE 725 FOR ADDITIONAL INFORMATION FOR UNLISTED (OSP) CABLING ENTERING A BUILDING. RELATED NEC ARTICLES 770, 800, AND 820.

SECURITY ALARM SYSTEM DIAGRAM

SCALE: N.T.S.

1



LAN-PHONE SYSTEM BLOCK DIAGRAM KEY NOTES:

1. TELEPHONE OUTLET. MOUNT +18" AFF. QUANTITY AND LOCATIONS PER PLAN DRAWINGS. SEE FACEPLATE DETAILS FOR MORE INFORMATION. TERMINATE TWO EXISTING DIAL TONE LINES INTO ONE RJ12C JACK. CONFIRM TELEPHONE'S PIN OUT REQUIREMENTS WITH OWNER PRIOR TO TERMINATING CABLE INTO JACK.
2. CATEGORY-6 UTP 4-PAIR PHONE CABLE(S). TERMINATE AT TELEPHONE OUTLET, AND ON THE EXISTING TELEPHONE COMPANY'S DEMARCATION (PROTECTOR) LOCATED ON THE BUILDING EXTERIOR.
3. EXISTING TELEPHONE COMPANY'S DEMARCATION (PROTECTOR) LOCATED ON THE BUILDING EXTERIOR. EXTEND THE TWO EXISTING DIAL TONE LINES TO THE NEW PHONE JACK IN THE OFFICE.
4. SURFACE WALL MOUNTED WIRELESS ACCESS POINT OUTLET. QUANTITY, LOCATIONS, AND MOUNTING HEIGHT PER PLAN DRAWINGS. PROVIDE OUTLET ABOVE ACCESSIBLE CEILING WHERE INDICATED ON PLANS. REFER TO FACEPLATE DETAILS FOR MORE INFORMATION. RESERVED FOR FUTURE WIRELESS ACCESS POINT EQUIPMENT BY OWNER.
5. CONDUIT AND CABLE(S). REFER TO FACEPLATE DETAIL FOR CABLE REQUIREMENTS. TERMINATE CABLES AT WAP OUTLET AND AT WAP CONSOLIDATION OUTLET.
6. WAP CONSOLIDATION OUTLET. MOUNT +18" AFF. LOCATION PER PLAN DRAWINGS. SEE FACEPLATE DETAILS FOR MORE INFORMATION.
7. EXISTING WIRELESS RECEIVER DEVICE. REINSTALL AND RECONNECT AFTER DEMOLITION PHASE. REROUTE EXISTING CABLE AND RECONNECT, OR PROVIDE NEW CABLE IF EXISTING CABLE IS TOO SHORT. CONFIRM LOCATION OF EXISTING RECEIVER AND FINAL TERMINATION POINT IN FIELD PRIOR TO COMMENCING WORK.

TELEPHONE SYSTEM GENERAL INSTALLATION NOTES:

1. DRAWINGS AND LAYOUTS ARE PRIMARILY DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR FINAL FOOTAGES AND EXACT LOCATIONS.
2. REFERENCE SPECIFICATIONS AND ALL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. CONTRACTOR SHALL PROVIDE WALL MOUNT DATA CABINET, PATCH PANELS, CONNECTORS, OUTLETS, PATCH CORDS, GROUNDING CONNECTIONS, AND ALL OTHER COMPONENTS NECESSARY FOR A COMPLETE AND OPERABLE STRUCTURED CABLING SYSTEM.
4. ALL COMPUTER AND TELEPHONE SYSTEM ACTIVE ELECTRONICS INCLUDING BUT NOT LIMITED TO COMPUTERS, TELEPHONE SETS, WIRELESS ACCESS POINTS, ROUTERS, AND UPS SHALL BE OWNER-FURNISHED OWNER-INSTALLED UNLESS OTHERWISE NOTED ON THE PLAN DRAWINGS AND SPECIFICATIONS.
5. EXTEND TWO EXISTING DIAL TONE LINES FROM TELCO SERVICE PROVIDER DEMARCATION EQUIPMENT TO TELEPHONE OUTLET(S), AND AS NOTED ON THE PLAN DRAWINGS. CONTRACTOR SHALL COORDINATE WITH TELCO COMPANY TECHNICIAN AND OWNER IN FIELD. INCLUDE ALL COSTS IN BASE BID.
6. REMOVE DURING DEMO PHASE, AND THEN RECONNECT EXISTING WIRELESS RECEIVER LOCATED AT 2ND FLOOR EXTERIOR WINDOW. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL CABLING OR COMPONENTS/EQUIPMENT REQUIRED TO RECONNECT THIS EXISTING DEVICE WITH THE OWNER'S COMPUTER. CONTRACTOR SHALL EXAMINE THE EXISTING EQUIPMENT IN THE FIELD PRIOR TO START OF DEMOLITION PHASE AND CONFIRM ALL REQUIREMENTS. INCLUDE ALL COSTS IN BASE BID.
7. VERIFY ALL QUANTITIES AND LOCATIONS WITH PLAN DRAWINGS AND SPECIFICATIONS.
8. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH OTHER TRADES PRIOR TO COMMENCING WORK.
9. ALL CABLING SHALL BE INSTALLED CONCEALED ABOVE ACCESSIBLE CEILINGS, AND INSIDE WALLS, UNLESS OTHERWISE NOTED.
10. ALL CABLES SHALL BE RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED, PER NEC CODE.
11. CABLES ROUTED IN CRAWL SPACES SHALL BE SECURED TO STRUCTURE AT 5 FEET MAXIMUM INTERVALS.

TELEPHONE SYSTEM DIAGRAM

SCALE: N.T.S.

2

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Technology Lead - Joe Marotta
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER
RAYMOND W. SHAFFER
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

TECHNOLOGY DIAGRAMS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E5.2

Login Name: LBRC7D291
Plot Date: October 06, 2025 - 3:09 pm
File Name: P:\2025\B2305166.000 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E5-2.dwg
XREFs: xCIVIL, Title Block

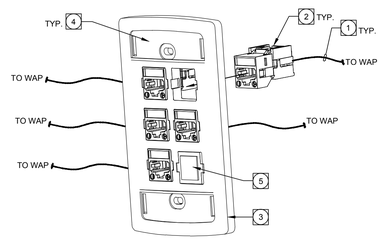
FACEPLATE DETAIL KEY NOTES:

1. PROVIDE (1) CAT-6, 4 PAIR UTP CABLE(S). TERMINATE STATION END(S) IN STATION CONNECTOR(S) PER DETAILS.
2. PROVIDE DATA CAT-6, 8P8C STATION CONNECTOR. COLOR OF CONNECTOR SHALL BE RED FOR WAP CONNECTIONS, AND BLUE FOR TELCO LINE CONNECTIONS.
3. PROVIDE FACEPLATE. FACEPLATE MATERIAL AND FINISH SHALL MATCH ADJACENT/NEARBY POWER FACEPLATES.
4. PROVIDE FACEPLATE LABELING PER SPECIFICATIONS. SEE SPECIFICATIONS FOR ALL OTHER LABELING REQUIREMENTS.
5. BLANK INSERT. ALL UNUSED OPENINGS SHALL BE COVERED WITH A BLANK INSERT MATCHING THE COLOR OF THE FACEPLATE.
6. PROVIDE SURFACE-MOUNT, PLENUM-RATED TWO-PORT HOUSING (LEVITON 41089-2WP OR EQUAL). MOUNT TO CONTRACTOR-PROVIDED IN-CEILING BRACKET WITH MULTI-FUNCTION CLIP FOR ROD OR HANGER WIRE MOUNTING (LEVITON 49223-CBC OR EQUAL). PROVIDE 10FT SLACK LOOP ON J-HOOK MOUNTED ABOVE HOUSINGS. MOUNT HOUSING 8-12 INCHES ABOVE ACCESSIBLE CEILING TILE.
7. INSTALL DEDICATED SUSPENDED CEILING WIRE / HANGAR OR SUPPORT ROD / ROD HANGAR DIRECTLY TO STRUCTURAL CEILING ABOVE TO SUPPORT WAP SURFACE MOUNT HOUSING.
8. PROVIDE J-HOOK ABOVE ACCESSIBLE CEILING PER SPECIFICATIONS. J-HOOKS SHALL BE SPACED AT A MAXIMUM OF 5 FEET APART.
9. PROVIDE (1) CAT-6, 4 PAIR UTP CABLE(S) TO EXTERIOR TELCO DEMARCATION POINT OR PROTECTOR. TERMINATE 2 PAIRS PER JACK (JACK #1: WHITE/BLUE AND WHITE/ORANGE, JACK #2: WHITE/GREEN AND WHITE/BROWN), UNLESS OTHERWISE DIRECTED BY TELCO INSTALLER OR OWNER. COORDINATE FINAL JACK WIRING REQUIREMENTS WITH OWNER IN FIELD.

WHERE THE FOLLOWING SYMBOLS ARE INDICATED ON THE ELECTRICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND/OR STRUCTURED CABLING SYSTEM DRAWINGS:

▼

THE FOLLOWING SHALL BE PROVIDED, AS DEPICTED IN THE FOLLOWING DIAGRAMMATIC CONNECTIVITY DETAIL.

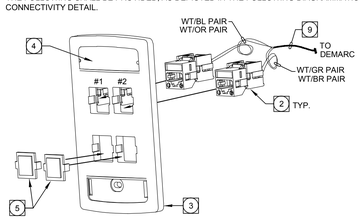


DATA/WAP CONSOLITATION OUTLET 4
N.T.S.

WHERE THE FOLLOWING SYMBOLS ARE INDICATED ON THE ELECTRICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND/OR STRUCTURED CABLING SYSTEM DRAWINGS:

TEL ▼

THE FOLLOWING SHALL BE PROVIDED, AS DEPICTED IN THE FOLLOWING DIAGRAMMATIC CONNECTIVITY DETAIL.

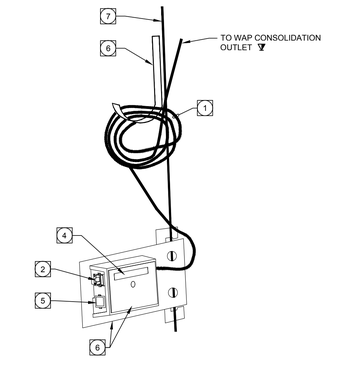


TELEPHONE DIALTONE LINE OUTLET 1
N.T.S.

WHERE THE FOLLOWING SYMBOLS ARE INDICATED ON THE ELECTRICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND/OR STRUCTURED CABLING SYSTEM DRAWINGS:

(WAP) ▼

THE FOLLOWING SHALL BE PROVIDED, AS DEPICTED IN THE FOLLOWING DIAGRAMMATIC CONNECTIVITY DETAIL.

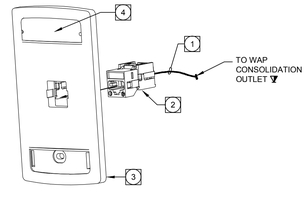


WAP DATA OUTLET ABOVE CEILING 2
N.T.S.

WHERE THE FOLLOWING SYMBOLS ARE INDICATED ON THE ELECTRICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND/OR STRUCTURED CABLING SYSTEM DRAWINGS:

(WAP) ▼

THE FOLLOWING SHALL BE PROVIDED, AS DEPICTED IN THE FOLLOWING DIAGRAMMATIC CONNECTIVITY DETAIL.



WALL DATA DEVICE FOR WAP 3
N.T.S.

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RAYMOND W. GRATZER
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STATE OF CALIFORNIA

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VETERAN'S HALL

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SHEET TITLE

TECHNOLOGY DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

E5.3

Login Name: LBRICTOD91
Plot Date: October 06, 2025 - 3:10 pm
File Name: P:\2021\B2305166.000 Corning Veterans Hall Remod\Drawings and Models\CAD\Electrical\E5-3.dwg
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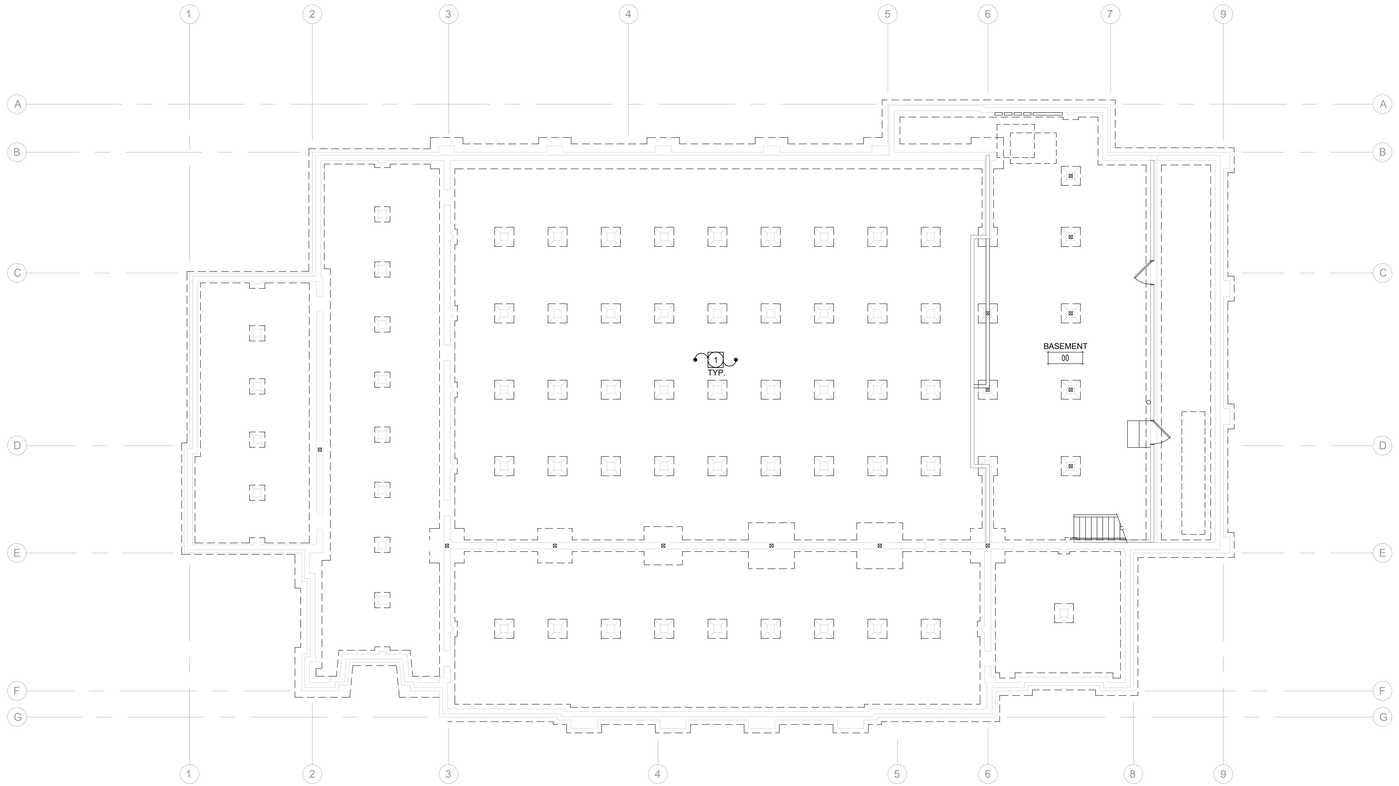

ELECTRICAL DEMOLITION PLAN - BASEMENT

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. REFER TO GENERAL DEMOLITION NOTE 14, AND ARCHITECTURAL SHEETS FOR DEMOLITION SCOPE. TYPICAL THROUGHOUT BUILDING, UNLESS OTHERWISE NOTED.

GENERAL DEMOLITION NOTES:

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. SEE ARCHITECTURAL PLANS, WHERE PROVIDED ON PROJECT, FOR EXTENT OF DEMOLITION.
2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES.
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.
12. CONTRACTOR TO VERIFY CIRCUIT NUMBER AND LOADS FOR ALL EXISTING EQUIPMENT PRIOR TO INSTALLATION OF NEW OR RELOCATED ELECTRICAL EQUIPMENT. REASSIGN CIRCUITS AND LOADS ACCORDINGLY. PROVIDE COMPLETE "AS BUILT" DRAWINGS AND TYPEWRITTEN DIRECTORIES FOR PANELS.
13. WHERE NECESSARY TO SHUT OFF UTILITY SERVICES OR CAUSE INTERRUPTION TO POWER OR SIGNAL SYSTEMS WHILE A BUILDING IS OCCUPIED OR THAT EFFECT ADJACENT BUILDINGS, SCHEDULE OUTAGES OR INTERRUPTIONS WITH THE OWNER, BUILDING OCCUPANTS AND/OR ADJACENT BUILDING OWNER(S) AND OCCUPANTS PRIOR TO CONDUCTING OUTAGE(S) OR INTERRUPTIONS.
14. REFER TO ARCHITECTURAL DEMOLITION DRAWING FOR DEMOLITION AREAS. THE SCOPE OF THE DEMOLITION SHALL INCLUDE ALL LABOR, EXISTING ELECTRICAL EQUIPMENT. VERIFY EXACT SCOPE PRIOR TO COMMENCING WORK. REFER TO DEMO PLAN FOR SPECIFIC AREAS NOT IN SCOPE THE SCOPE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
    - A. LIGHTING: CONTRACTOR TO DEMOLISH ALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS, U.O.N.
    - B. POWER: CONTRACTOR TO DEMOLISH ALL EXISTING POWER, U.O.N.
    - C. CONTRACTOR TO DEMOLISH ALL EXISTING ELECTRICAL SWITCHGEAR, PANELBOARDS, PULLBOXES, ETC., U.O.N.
    - D. SIGNAL: CONTRACTOR TO DEMOLISH ALL EXISTING SIGNAL SYSTEMS (CLOCKS, DATA OUTLETS, TELEPHONE OUTLETS, TELEVISION OUTLETS, SPEAKERS, ETC.)
    - E. FIRE ALARM: CONTRACTOR TO DEMOLISH ALL EXISTING FIRE ALARM DEVICES, U.O.N.
    - F. EXTERIOR LIGHTING: CONTRACTOR SHALL DEMOLISH ALL EXISTING EXTERIOR LIGHTING FIXTURES AND ASSOCIATED CONTROLS, U.O.N.
    - G. EXTERIOR POWER, SIGNAL AND FIRE ALARM: CONTRACTOR SHALL DEMOLISH ALL EXISTING EXTERIOR POWER, SIGNAL AND FIRE ALARM DEVICES, U.O.N.
15. WHERE NEW PARTITIONS OR OTHER CONSTRUCTION WILL COVER EXISTING, REMAINING OUTLETS MAKING THEM INACCESSIBLE, RELOCATE THESE OUTLETS AS REQUIRED, OR MAKE OTHER PROVISIONS SO THAT THE OUTLETS WILL REMAIN ACCESSIBLE AND OPERATIONAL.
16. WHERE EXISTING WALLS AND CEILINGS ARE TO REMAIN, PROVIDE BLANK COVER PLATES FOR OUTLETS WHERE EQUIPMENT OR DEVICES ARE REMOVED UNDER THIS CONTRACT. PRIME BLANK PLATES AND PAINT TO MATCH SURROUNDING AREA.
17. WHERE FIXTURES, EQUIPMENT, DEVICES, ETC. ARE SPECIFIED BY THE CONTRACT DOCUMENTS FOR REMOVAL, THE CONTRACTOR SHALL REMOVE ALL CIRCUIT CONDUCTORS/CABLING BACK TO THE NEAREST REMAINING JUNCTION BOX AND/OR POINT OF TERMINATION.
18. RELOCATE EXISTING CONDUITS AND/OR CONDUCTORS/CABLING ROUTING THROUGH AREAS WHERE NEW/REMOVED WALLS ARE SPECIFIED.
19. RELOCATION AND/OR REMOVAL OF EXISTING EQUIPMENT, DEVICES, OUTLETS BOXES, CONDUIT, WIRING, ETC. MAY AFFECT THE OPERATION OF EXISTING, REMAINING ELECTRICAL EQUIPMENT/DEVICES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MATERIALS AS REQUIRED TO MAINTAIN AND/OR RESTORE CONTINUITY OF SERVICES TO EXISTING REMAINING ELECTRICAL/DEVICES.
20. DISCONNECT ABANDONED CIRCUITS AT EXISTING PANEL BOARDS AND REMOVE WIRE TO LAST REMAINING DEVICES. LABEL ALL ABANDONED CIRCUIT BREAKERS "SPARE".

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RAYMOND P. SHAFFER
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE
ELECTRICAL DEMOLITION PLAN - BASEMENT

DRAWING STATUS
CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.
ED2.1

Login Name: LERC\TCDPI
Plot Date: October 06, 2025 - 3:11 pm
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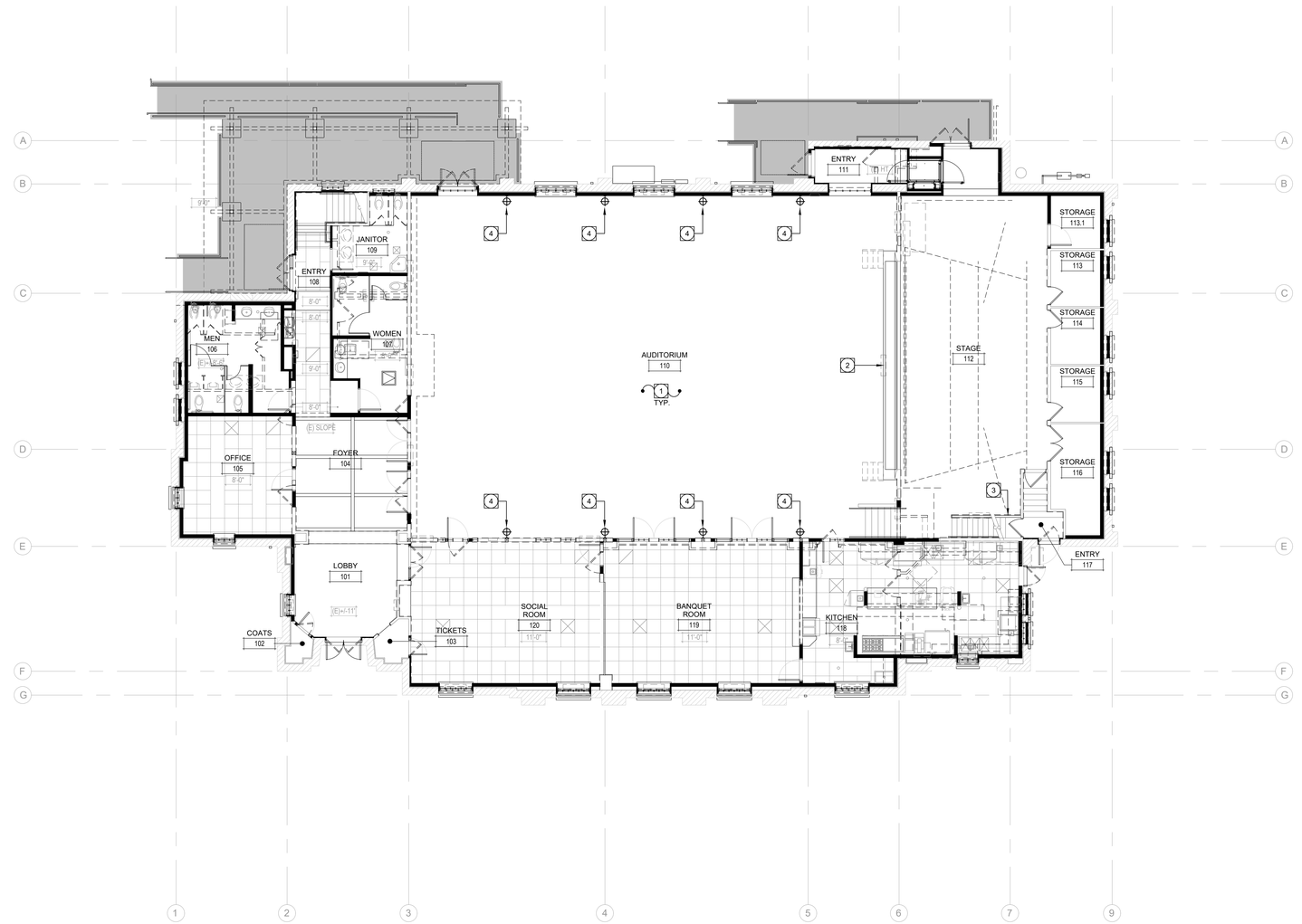

ELECTRICAL DEMOLITION PLAN - LEVEL 1

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. REFER TO GENERAL DEMOLITION NOTE 14, AND ARCHITECTURAL SHEETS FOR DEMOLITION SCOPE. TYPICAL THROUGHOUT BUILDING, UNLESS OTHERWISE NOTED
2. EXISTING STAGE LIGHTING AT EDGE OF STAGE TO REMAIN. DISCONNECT FROM EXISTING PANEL AND PROTECT EXISTING CONDUIT, WIRING, AND CONTROLS IN PLACE FOR RECONNECTION TO NEW PANEL.
3. EXISTING ELECTRIC WATER HEATER TO REMAIN. DISCONNECT FROM EXISTING PANEL AND PROTECT EXISTING CONDUIT, WIRING, AND CONTROLS IN PLACE FOR RECONNECTION TO NEW PANEL.
4. EXISTING DECORATIVE WALL SCONCE TO BE DISCONNECTED AND SET ASIDE FOR REINSTALLATION AT ORIGINAL LOCATION.

GENERAL DEMOLITION NOTES:

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. SEE ARCHITECTURAL PLANS, WHERE PROVIDED ON PROJECT, FOR EXTENT OF DEMOLITION.
2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND OTHER CONSTRUCTION AGAINST DAMAGE DURING DEMOLITION. CONFINE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
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8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES.
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
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12. CONTRACTOR TO VERIFY CIRCUIT NUMBER AND LOADS FOR ALL EXISTING EQUIPMENT PRIOR TO INSTALLATION OF NEW OR RELOCATED ELECTRICAL EQUIPMENT. REASSIGN CIRCUITS AND LOADS ACCORDINGLY. PROVIDE COMPLETE "AS BUILT" DRAWINGS AND TYPEWRITTEN DIRECTORIES FOR PANELS.
13. WHERE NECESSARY TO SHUT OFF UTILITY SERVICES OR CAUSE INTERRUPTION TO POWER OR SIGNAL SYSTEMS WHILE A BUILDING IS OCCUPIED OR THAT EFFECT ADJACENT BUILDINGS, SCHEDULE OUTAGES OR INTERRUPTIONS WITH THE OWNER, BUILDING OCCUPANTS AND/OR ADJACENT BUILDING OWNER(S) AND OCCUPANTS PRIOR TO CONDUCTING OUTAGES OR INTERRUPTIONS.
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    - D. SIGNAL: CONTRACTOR TO DEMOLISH ALL EXISTING SIGNAL SYSTEMS (CLOCKS, DATA OUTLETS, TELEPHONE OUTLETS, TELEVISION OUTLETS, SPEAKERS, ETC.)
    - E. FIRE ALARM: CONTRACTOR TO DEMOLISH ALL EXISTING FIRE ALARM DEVICES, U.O.N.
    - F. EXTERIOR LIGHTING: CONTRACTOR SHALL DEMOLISH ALL EXISTING EXTERIOR LIGHTING FIXTURES AND ASSOCIATED CONTROLS, U.O.N.
    - G. EXTERIOR POWER, SIGNAL AND FIRE ALARM: CONTRACTOR SHALL DEMOLISH ALL EXISTING EXTERIOR POWER, SIGNAL AND FIRE ALARM DEVICES, U.O.N.
15. WHERE NEW PARTITIONS OR OTHER CONSTRUCTION WILL COVER EXISTING, REMAINING OUTLETS MAKING THEM INACCESSIBLE, RELOCATE THESE OUTLETS AS REQUIRED, OR MAKE OTHER PROVISIONS SO THAT THE OUTLETS WILL REMAIN ACCESSIBLE AND OPERATIONAL.
16. WHERE EXISTING WALLS AND CEILINGS ARE TO REMAIN, PROVIDE BLANK COVER PLATES FOR OUTLETS WHERE EQUIPMENT OR DEVICES ARE REMOVED UNDER THIS CONTRACT. PRIME BLANK PLATES AND PAINT TO MATCH SURROUNDING AREA.
17. WHERE FIXTURES, EQUIPMENT, DEVICES, ETC. ARE SPECIFIED BY THE CONTRACT DOCUMENTS FOR REMOVAL, THE CONTRACTOR SHALL REMOVE ALL CIRCUIT CONDUCTORS/CABLING BACK TO THE NEAREST REMAINING JUNCTION BOX AND/OR POINT OF TERMINATION.
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20. DISCONNECT ABANDONED CIRCUITS AT EXISTING PANEL BOARDS AND REMOVE WIRE TO LAST REMAINING DEVICES. LABEL ALL ABANDONED CIRCUIT BREAKERS "SPARE".

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REGISTERED PROFESSIONAL ENGINEER
RAYMOND P. GRATZER
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

ELECTRICAL DEMOLITION PLAN - LEVEL 1

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
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ED2.2

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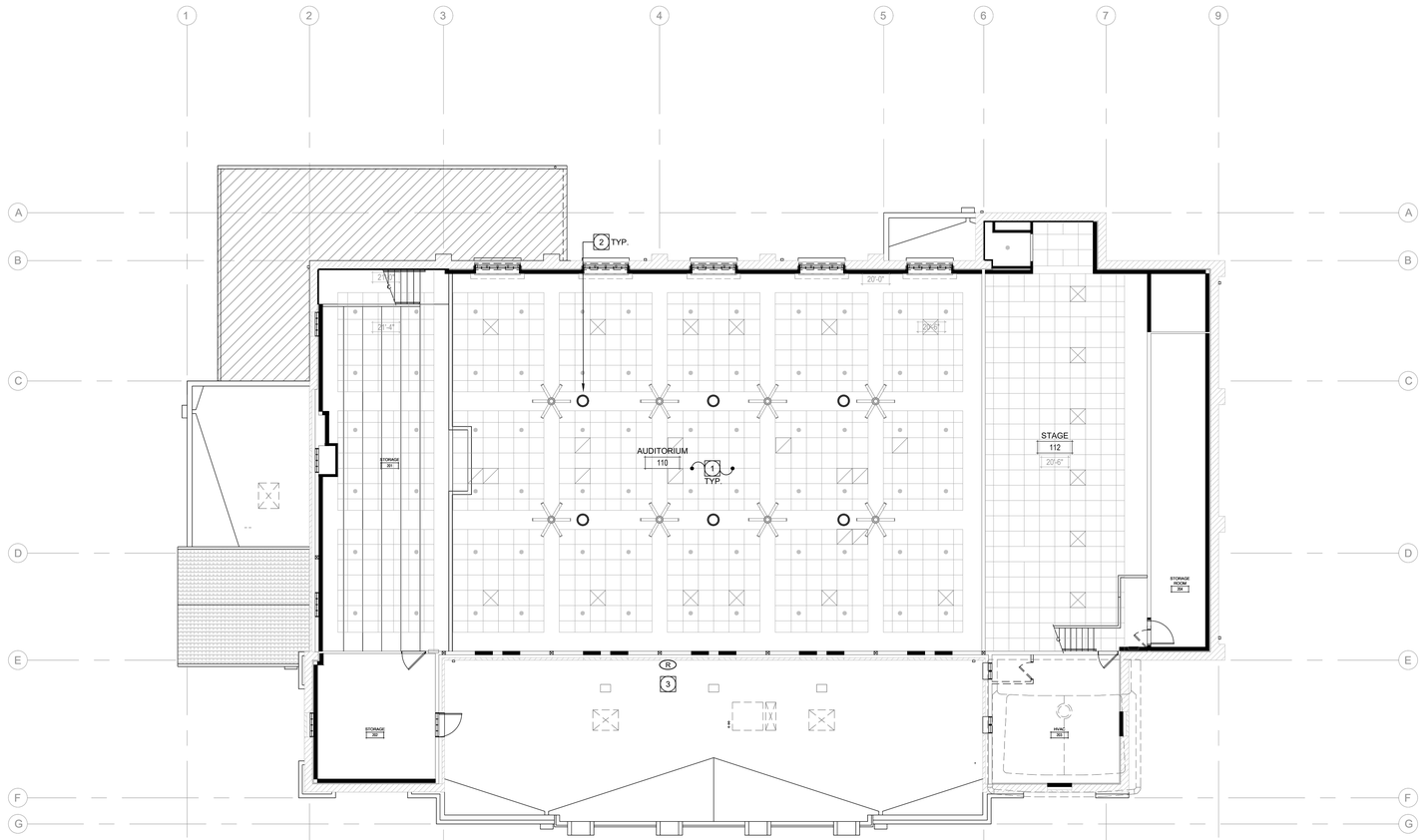

ELECTRICAL DEMOLITION PLAN - LEVEL 2

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. REFER TO GENERAL DEMOLITION NOTE 14, AND ARCHITECTURAL SHEETS FOR DEMOLITION SCOPE. TYPICAL THROUGHOUT BUILDING, UNLESS OTHERWISE NOTED.
2. EXISTING DECORATIVE CHAIN HUNG FIXTURE TO BE DISCONNECTED AND SET ASIDE FOR REINSTALLATION IN NEW CEILING.
3. EXISTING WIRELESS RECEIVER DISH TO REMAIN. REMOVE AS REQUIRED FOR DEMO WORK AND REINSTALL DISH AND ALL WIRING DURING NEW CONSTRUCTION. PROVIDE NEW WIRING AS REQUIRED. CONTRACTOR TO CONFIRM EXACT DISH LOCATION IN FIELD. REFER TO SHEET E2.6 FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTES:

1. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. SEE ARCHITECTURAL PLANS, WHERE PROVIDED ON PROJECT, FOR EXTENT OF DEMOLITION.
2. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.
3. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH PLANNED REMODEL WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.
4. NOTIFY THE ENGINEER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, OR NOT INDICATED ON "AS-BUILT" DRAWINGS OR WAS BURIED UNDERGROUND OR EMBEDDED IN STRUCTURE WALLS.
5. CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE SMALLER AREA IF POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.
6. EQUIPMENT, MATERIALS AND SUPPLIES TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.
7. DEMOLITION WORK SHALL BE DONE IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO USERS OF THE PREMISES AND ADJACENT SITE, AND NOT INTERFERE WITH ITS OPERATION. ANY DEMOLITION WORK TO BE PERFORMED MUST BE PLANNED IN ADVANCE.
8. DO ALL DRILLING, CUTTING, ETC. REQUIRED TO DEMOLISH ELECTRICAL WORK AS INDICATED OR PROVIDE BLANK COVER PLATE ON ALL OUTLETS EXPOSED BY REMOVAL OF FIXTURE OR DEVICES.
9. RESEAL ALL PENETRATIONS OR OPENING THROUGH WALLS, CEILING, FLOORS, ETC., TO MAINTAIN THE RATING OF STRUCTURE.
10. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IS SALVAGED MATERIALS SHALL REMAIN IN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGED. DISPOSE OF ALL HAZARDOUS MATERIAL PER GUIDELINE OF THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH SERVICES AND OTHER AGENCIES HAVING JURISDICTION.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDUIT/WIRING RUNS, REUSE AS REQUIRE AND REMOVED ALL UNUSED CONDUIT/WIRING. UNUSED CONDUIT IN INACCESSIBLE LOCATIONS (WALLS TO REMAIN) CAN BE ABANDONED IN PLACE. REMOVE UNUSED WIRING.
12. CONTRACTOR TO VERIFY CIRCUIT NUMBER AND LOADS FOR ALL EXISTING EQUIPMENT PRIOR TO INSTALLATION OF NEW OR RELOCATED ELECTRICAL EQUIPMENT. REASSIGN CIRCUITS AND LOADS ACCORDINGLY. PROVIDE COMPLETE "AS BUILT" DRAWINGS AND TYPEWRITTEN DIRECTORIES FOR PANELS.
13. WHERE NECESSARY TO SHUT OFF UTILITY SERVICES OR CAUSE INTERRUPTION TO POWER OR SIGNAL SYSTEMS WHILE A BUILDING IS OCCUPIED OR THAT EFFECT ADJACENT BUILDINGS, SCHEDULE OUTAGES OR INTERRUPTIONS WITH THE OWNER, BUILDING OCCUPANTS AND/OR ADJACENT BUILDING OWNER(S) AND OCCUPANTS PRIOR TO CONDUCTING OUTAGE(S) OR INTERRUPTIONS.
14. REFER TO ARCHITECTURAL DEMOLITION DRAWING FOR DEMOLITION AREAS. THE SCOPE OF THE DEMOLITION SHALL INCLUDE ALL LABOR, EXISTING ELECTRICAL EQUIPMENT. VERIFY EXACT SCOPE PRIOR TO COMMENCING WORK. REFER TO DEMO PLAN FOR SPECIFIC AREAS NOT IN SCOPE. THE SCOPE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
    - A. LIGHTING: CONTRACTOR TO DEMOLISH ALL EXISTING LIGHTING FIXTURES AND ASSOCIATED CONTROLS, U.O.N.
    - B. POWER: CONTRACTOR TO DEMOLISH ALL EXISTING POWER, U.O.N.
    - C. CONTRACTOR TO DEMOLISH ALL EXISTING ELECTRICAL SWITCHGEAR, PANELBOARDS, PULLBOXES, ETC., U.O.N.
    - D. SIGNAL: CONTRACTOR TO DEMOLISH ALL EXISTING SIGNAL SYSTEMS (DATA OUTLETS, TELEPHONE OUTLETS, TELEVISION OUTLETS, ETC.). AV AND SOUND SYSTEM EQUIPMENT AND SPEAKERS TO REMAIN PROTECT IN PLACE.
    - E. FIRE ALARM: CONTRACTOR TO DEMOLISH ALL EXISTING FIRE ALARM DEVICES, U.O.N.
    - F. EXTERIOR LIGHTING: CONTRACTOR SHALL DEMOLISH ALL EXISTING EXTERIOR LIGHTING FIXTURES AND ASSOCIATED CONTROLS, U.O.N.
    - G. EXTERIOR POWER, SIGNAL AND FIRE ALARM: CONTRACTOR SHALL DEMOLISH ALL EXISTING EXTERIOR POWER, SIGNAL AND FIRE ALARM DEVICES, U.O.N.
15. WHERE NEW PARTITIONS OR OTHER CONSTRUCTION WILL COVER EXISTING, REMAINING OUTLETS MAKING THEM INACCESSIBLE, RELOCATE THESE OUTLETS AS REQUIRED, OR MAKE OTHER PROVISIONS SO THAT THE OUTLETS WILL REMAIN ACCESSIBLE AND OPERATIONAL.
16. WHERE EXISTING WALLS AND CEILINGS ARE TO REMAIN, PROVIDE BLANK COVER PLATES FOR OUTLETS WHERE EQUIPMENT OR DEVICES ARE REMOVED UNDER THIS CONTRACT. PRIME BLANK PLATES AND PAINT TO MATCH SURROUNDING AREA.
17. WHERE FIXTURES, EQUIPMENT, DEVICES, ETC. ARE SPECIFIED BY THE CONTRACT DOCUMENTS FOR REMOVAL, THE CONTRACTOR SHALL REMOVE ALL CIRCUIT CONDUCTORS/CABLING BACK TO THE NEAREST REMAINING JUNCTION BOX AND/OR POINT OF TERMINATION.
18. RELOCATE EXISTING CONDUITS AND/OR CONDUCTORS/CABLING ROUTING THROUGH AREAS WHERE NEW/REMOVED WALLS ARE SPECIFIED.
19. RELOCATION AND/OR REMOVAL OF EXISTING EQUIPMENT, DEVICES, OUTLETS BOXES, CONDUIT, WIRING, ETC. MAY AFFECT THE OPERATION OF EXISTING, REMAINING ELECTRICAL EQUIPMENT/DEVICES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MATERIALS AS REQUIRED TO MAINTAIN AND/OR RESTORE CONTINUITY OF SERVICES TO EXISTING REMAINING ELECTRICAL/DEVICES.
20. DISCONNECT ABANDONED CIRCUITS AT EXISTING PANEL BOARDS AND REMOVE WIRE TO LAST REMAINING DEVICES. LABEL ALL ABANDONED CIRCUIT BREAKERS "SPARE".

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TEHAMA COUNTY
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VETERAN'S HALL

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SHEET TITLE

ELECTRICAL
DEMOLITION
PLAN - LEVEL 2

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Sym.	Description	Date

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Date Issued	2/13/2025
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CENTRAL MONITORING SYSTEM SPECIFICATIONS

PART 1 - GENERAL REQUIREMENTS

GENERAL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING OF ALL FINAL DESIGN, AGENCY APPROVALS, PLAN CHECK FEES, LABOR, EQUIPMENT, MATERIALS, AND PERFORMANCE OF OPERATIONS IN CONNECTION WITH THE INSTALLATION OF A COMPLETE AND FULLY FUNCTIONING CODE APPROVED CENTRAL MONITORING SYSTEM.

THE COMPLETE INSTALLATION SHALL CONFORM TO APPLICABLE SECTIONS OF NFPA-72 2016 EDITION OR LATEST ADOPTED VERSION, LOCAL CODE REQUIREMENTS AND NATIONAL ELECTRICAL CODE.

IT IS THE INTENT OF THE CONTRACT DOCUMENTS, WHICH ARE PRESENTED IN A DIAGRAMMATIC, "DESIGN-BUILD" FORMAT, FOR THE CONTRACTOR TO DESIGN, PROVIDE AND INSTALL A COMPLETE AND FULLY FUNCTIONING, CODE APPROVED CENTRAL MONITORING SYSTEM. IN THE EVENT THAT ADDITIONAL DETAILS OR SPECIAL CONSTRUCTION IS REQUIRED FOR WORK INDICATED OR SPECIFIED IN THIS SECTION OR WORK SPECIFIED IN OTHER SECTIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIAL AND EQUIPMENT WHICH IS USUALLY FURNISHED WITH SUCH SYSTEMS, IN ORDER TO PROVIDE A COMPLETE AND FULLY FUNCTIONING INSTALLATION, WHETHER MENTIONED HEREIN OR NOT.

DESIGN REQUIREMENTS: THE CENTRAL MONITORING SYSTEM SHALL BE RESPONSIBLE FOR CONTINUALLY SUPERVISING AND MONITORING BY ZONE THE FOLLOWING INITIATING, SIGNALING AND MONITORING CIRCUITS (AT A MINIMUM):

MANUAL FIRE PULL STATIONS.
SMOKE AND HEAT DETECTORS - INCLUDING THOSE REQUIRED UNDER OTHER SECTIONS.
(FOR HVAC, SHUTOFF, SMOKE FIRE DAMPER CONTROL, ETC.)
SPRINKLER FLOW / TAMPER SWITCHES - INCLUDING THOSE IN OTHER SECTIONS.
PIV / OS&Y DEVICES - INCLUDING THOSE INSTALLED IN OTHER SECTIONS.
ALARM SIGNALING CIRCUITS.
REMOTE ANNUNCIATOR.

SYSTEM CONTROLS SHALL BE U.L. LISTED FOR POWER LIMITED APPLICATIONS PER NEC (OR CEC WHERE ADOPTED) ART. 760.121. SYSTEM SHALL BE CAPABLE OF COMMUNICATING WITH AN OFFICE SITE CENTRAL MONITORING SYSTEM.

ALL WIRING SHALL BE INSTALLED IN CONCEALED CONDUIT. ROUTE FIRE ALARM SYSTEM WIRING IN SEPARATE CONDUITS FROM ALL OTHER WIRING. ADDITIONALLY:

1. WHEN CONDUIT CANNOT BE CONCEALED, CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ARCHITECT/ENGINEER TO PROVIDE SURFACE RACEWAYS OR CONDUITS PRIOR TO ANY ROUGH-IN. SURFACE RACEWAYS AND CONDUITS SHALL BE PROPERLY PREPARED AND PAINTED- COLOR AS SELECTED BY ARCHITECT/ENGINEER.
2. WHEN EXPOSED CEILINGS OR OPEN GRID CONDITIONS OCCUR, CONDUITS SHALL BE ROUTED NEATLY AND IN PARALLEL TO STRUCTURES OR DUCT WORK.
3. VISUALLY OBJECTIONABLE CONDUITS SHALL BE REROUTED AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST.

CONTROL PANEL SHALL EMPLOY AUTOMATIC DRIFT COMPENSATION OF SMOKE DETECTORS. CONTROL PANEL SHALL MEET THE REQUIREMENTS OF NFPA CHAPTER 7 FOR CALIBRATED TEST.

MANUAL STATIONS SHALL BE DUAL ACTION WITH A KEYED RESET. KEY SHALL MATCH THE CONTROL PANEL. STATIONS SHALL BE ADA 5 LB. PULL FORCE APPROVED.

ALL AUDIO VISUAL DEVICES SHALL BE MANUFACTURER'S STANDARD WHITE UNLESS OTHERWISE NOTED.

PROVIDE ALL NECESSARY CONDUIT(S) AND CONDUCTORS AS REQUIRED TO CONNECT DEVICES REQUIRED TO BE MONITORED BY THE LOCAL AUTHORITIES HAVING JURISDICTION. THESE INCLUDE, BUT ARE NOT LIMITED TO, PIV(S), BACKFLOW PREVENTER(S), DETECTOR CHECK VALVE(S), OS&Y VALVE(S), ETC. REFER TO CIVIL/PLUMBING DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF THESE DEVICES.

CONTROL PANEL SHALL BE FIELD PROGRAMMABLE WITHOUT THE USE OF A LAP TOP COMPUTER OR OTHER SPECIAL INSTRUMENTS.

REQUIRED APPROVALS: THE CENTRAL MONITORING SYSTEM SHALL BE APPROVED BY THE LOCAL FIRE AUTHORITY IN ADDITION TO ANY OTHER REQUIRED APPROVALS. THIS APPROVAL SHALL BE OBTAINED PRIOR TO THE SUBMITTAL OF SHOP DRAWING DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

INSTALLATION OF THE CENTRAL MONITORING SYSTEM SHALL NOT BE STARTED UNTIL DRAWINGS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS OF FIRE ALARM COMPONENTS, ARE SUBMITTED TO AND APPROVED BY THE LOCAL FIRE MARSHAL. WRITTEN CERTIFICATION BY FIRE ALARM EQUIPMENT DISTRIBUTOR OR MANUFACTURER SHALL BE SUBMITTED TO THE ARCHITECT AND THE STATE FIRE MARSHAL STATING THAT THE NEW SYSTEM AND ITS COMPONENT PARTS ARE AS "APPROVED AND LISTED" BY THE STATE FIRE MARSHAL AND THAT INSTALLATION CONFORMS IN ALL RESPECTS TO REQUIREMENTS SET FORTH IN ARTICLE 72, TITLE 24, PART 2, CALIFORNIA CODE OF REGULATIONS. FIRE ALARM SYSTEM CONSTRUCTION SHALL NOT BE STARTED UNTIL FIRE ALARM DRAWINGS ARE APPROVED BY AHJ AND ENGINEER.

SYSTEM PERFORMANCE: FURNISH AND INSTALL A COMPLETE CENTRAL MONITORING SYSTEM AS DESCRIBED HEREIN AND AS INDICATED ON DRAWINGS TO BE WIRED, CONNECTED, AND LEFT IN FIRST CLASS OPERATING CONDITION. SYSTEM SHALL USE CLOSED LOOP INITIATING DEVICE CIRCUITS WITH INDIVIDUAL ZONE SUPERVISION, INDIVIDUAL INDICATING APPLIANCE CIRCUIT SUPERVISION, INCOMING AND STANDBY POWER SUPERVISION. INCLUDE A CONTROL PANEL, MANUAL PULL STATIONS, AUTOMATIC FIRE DETECTORS, HORNS, BELLS, FLASHING LIGHTS, ANNUNCIATOR, ALL WIRING, CONNECTIONS TO DEVICES, OUTLET BOXES, JUNCTION BOXES, AND ALL OTHER NECESSARY MATERIAL FOR A COMPLETE OPERATING SYSTEM.

SUBMITTALS: SUBMIT IN ACCORDANCE WITH PROJECT GENERAL REQUIREMENTS SPECIFICATIONS. SHOW EQUIPMENT LOCATIONS, WIRING SCHEMATICS, DETAILS, PANEL CONFIGURATION AND SIZES AND A POINT-TO-POINT SCHEMATICS OF CIRCUITS AND ZONE SCHEDULES. INCLUDE FRONT ELEVATIONS, CABINET DIMENSIONS, TYPE OF MOUNTING, DOORS, BARRIERS, CATALOG NUMBER OF LOCKS, AND FINISHES FOR ALL TERMINAL CABINETS. SHOW INTERFACES TO EQUIPMENT FURNISHED BY OTHERS, IDENTIFYING NUMBERS OF WIRES AND TERMINATION REQUIREMENTS. PROVIDE MANUFACTURER CUT SHEETS FOR ALL SYSTEM COMPONENTS INDICATING U.L. AND CSFM LISTINGS. GENERIC CUT SHEETS ARE UNACCEPTABLE - EACH CUT SHEET SHALL INDICATE/IDENTIFY SPECIFIC COMPONENTS ALONG WITH ANY REQUIRED COMPONENT OPTIONS/ACCESSORIES UTILIZED ON THE PROJECT. PROVIDE COMPLETE SEQUENCE OF OPERATIONS OF SYSTEM. PROVIDE COMPLETE SYSTEM WIRING DIAGRAMS FOR COMPONENTS CONNECTED TO SYSTEM AND INTERFACES TO EXISTING EQUIPMENT. PROVIDE A COPY OF ANY STATE OR LOCAL FIRE ALARM SYSTEM EQUIPMENT APPROVALS. PROVIDE ONE COPY OF ACCEPTANCE TEST PROCEDURES FOR REVIEW.

CERTIFICATION OF INSTALLATION COMPANY:

A. PROOF THAT THE FIRE ALARM CONTRACTOR IS UNDERWRITERS LABORATORIES, INC. (U.L.) LISTED UNDER THE CLASSIFICATION OF "PROTECTIVE SIGNALING SERVICES - LOCAL, AUXILIARY, REMOTE STATION AND PROPRIETARY (UUJS) AND CENTRAL STATION PROTECTIVE SIGNALING SERVICES (UUFX)."

B. COPY OF THE FOLLOWING (NICET) CERTIFICATES. PROOF THAT THE CERTIFICATE HOLDERS ARE A PART OF THE FIRE ALARM CONTRACTOR'S LOCAL FACILITY SERVICING THIS PROJECT AND WILL INSTALL THE FIRE ALARM SYSTEM. NON-NICET INSTALLERS MAY BE UTILIZED ON THE PROJECT TO ASSIST NICET-CERTIFIED INSTALLER ONLY IF DIRECTLY SUPERVISED BY NICET-CERTIFIED INSTALLER. THE RATIO OF NICET-TO-NON-NICET INSTALLERS SHALL NOT EXCEED 1:3.
   1. CERTIFIED NICET TECHNICIAN LEVEL 2 (INSTALLER).
   2. CERTIFIED NICET TECHNICIAN LEVEL 4 (SUPERVISOR).

C. QUALITY ASSURANCE: WORK SHALL BE PERFORMED BY A QUALIFIED SYSTEMS CONTRACTOR HOLDING A C-10 LICENSE.

WARRANTY: CONTRACTOR SHALL WARRANT COMPLETED CENTRAL MONITORING SYSTEM WIRING AND EQUIPMENT TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF COMPLETION AND CERTIFIED TEST, OR FROM DATE OF FIRST BENEFICIAL USE. THE EQUIPMENT MANUFACTURER SHALL MAKE AVAILABLE TO THE OWNER A MAINTENANCE CONTRACT PROPOSAL TO PROVIDE A MINIMUM OF (2) INSPECTIONS AND TESTS PER YEAR IN COMPLIANCE WITH NFPA-72 GUIDELINES.

PART II - EXECUTION

ZONING: THE BUILDING SHALL BE DIVIDED INTO ZONES FOR ALARM ANNUNCIATION AND SYSTEM CONFIGURATION PER THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL AND/OR AUTHORITY. A ZONE WILL BE ASSIGNED FOR EACH SPRINKLER FLOW SWITCH AND EACH TAMPER SWITCH. AIR-HANDLING SYSTEMS REQUIRING IN-DUCT DETECTION SHALL BE ZONED PER UNIT. UNIT SHALL BE SHUT DOWN DIRECTLY BY AUXILIARY RELAY CONTROLLED BY DUCT SMOKE DETECTOR.

ACCEPTANCE TESTING: FINAL ACCEPTANCE WILL BE GIVEN AFTER SUCCESSFUL ACCEPTANCE TESTING AND SUBMISSION OF APPROVED AS-BUILT DOCUMENTATION AND OPERATION AND MAINTENANCE MANUALS. ACCEPTANCE TESTING OF FIRE DETECTION SYSTEM SHALL BE AS REQUIRED BY THE STATE FIRE MARSHAL AND LOCAL AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING REQUIRED TESTING, COORDINATING SCHEDULING, AND CONDUCTING TEST NECESSARY TO ACHIEVE OCCUPANCY CERTIFICATION. TESTS SHALL INCLUDE THE FOLLOWING:

AN OPERATION OF EACH INITIATING DEVICE.
AN OPERATION OF EACH INDICATING DEVICE (ALARM, HORN, AND ALARM LAMP).
OPERATION OF ALL FEATURES OF SYSTEM UNDER NORMAL OPERATION.
OPERATION OF SUPERVISORY FEATURES OF SYSTEM.
OPERATION OF SYSTEM ON STANDBY POWER WITH PRIMARY POWER OFF.

UPON COMPLETION OF INSTALLATION OF CENTRAL MONITORING/FIRE ALARM EQUIPMENT, ELECTRICAL CONTRACTOR SHALL PROVIDE TO THE ENGINEER A SIGNED, WRITTEN STATEMENT CONFIRMING THAT THE FIRE ALARM EQUIPMENT WAS INSTALLED IN ACCORDANCE WITH SPECIFICATIONS, WIRING DIAGRAMS, INSTRUCTIONS AND DIRECTIONS PROVIDED BY MANUFACTURER. A COMPLETE DESCRIPTION OF NATURE AND SCOPE OF TRAINING PROGRAM FOR MAINTENANCE TECHNICIANS, OPERATORS, SYSTEM USERS, AND MANAGEMENT PERSONNEL SHALL BE PROVIDED. CONTRACTOR SHALL PROVIDE A COMPLETE TRAINING PROGRAM FOR SYSTEM USERS, AND A MINIMUM OF (4) COPIES OF OPERATING INSTRUCTIONS. IN ADDITION, CONTRACTOR SHALL PROVIDE A TRAINING PROGRAM FOR THE OWNER'S MAINTENANCE PERSONNEL. THIS TRAINING SHALL BE PROVIDED FOR A MINIMUM OF (3) PERSONS WITHIN ONE YEAR OF COMPLETION DATE. COSTS FOR INSTRUCTION SHALL BE PAID BY CONTRACTOR. TRAINING SHALL BE SCHEDULED AND COORDINATED BY THE OWNER.

NFPA 72, CHAPTER 7, INSPECTION TESTING AND MAINTENANCE COMPLETE THE INSPECTION AND TESTING FORM IN ITS ENTIRETY. SUBMIT A COPY TO THE OWNER, ARCHITECT AND FIRE AUTHORITY.

PART III - PRODUCTS (CMCP)

CENTRAL MONITORING EQUIPMENT SHALL BE U.L. LISTED AND C.S.F.M. LISTED. CATALOG AND MODEL NUMBERS LISTED ARE INTENDED TO ESTABLISH TYPE AND QUALITY OF EQUIPMENT AND SYSTEM DESIGN AS WELL AS OPERATING FEATURES REQUIRED. MANUFACTURER'S SPECIFICATION SHEETS OF EACH ITEM SO LISTED SHALL BE CONSIDERED TO BE A PART OF THESE SPECIFICATIONS AND BINDING HEREIN. ANY DEVIATION FROM INTENDED FUNCTIONS OF SYSTEM SPECIFIED MAY NOT BE APPROVED, AT OPTION OF THE OWNER/ENGINEER.

EQUIPMENT SUBSTITUTIONS MUST BE PRE-APPROVED BY THE ELECTRICAL ENGINEER (10) DAYS PRIOR TO THE BID DATE. CONTRACTOR MUST SHOW OPERATION OF EQUIPMENT AND COMPLIANCE WITH ALL FUNCTIONS AND FEATURES SPECIFIED. EQUIPMENT SUBSTITUTIONS NOT PRE-APPROVED PRIOR TO BID DATE WILL BE REJECTED.

CENTRAL MONITORING CONTROL PANEL (CMCP): WHERE INDICATED ON DRAWINGS, PROVIDE AND INSTALL A CENTRAL MONITORING CONTROL PANEL. CONSTRUCTION SHALL BE MODULAR WITH SOLID STATE, MICROPROCESSOR-BASED ELECTRONICS.

FIRE ALARM SYSTEM POWER SUPPLY (FAPS): THE FAPS IS A DEVICE DESIGNED FOR USE AS EITHER A REMOTE 24 VOLT POWER SUPPLY OR USED TO POWER NOTIFICATION APPLIANCES. THE FAPS SHALL OFFER UP TO 6.0 AMPS (4.0 AMPS CONTINUOUS) OF REGULATED 24 VOLT POWER. IT SHALL INCLUDE AN INTEGRAL CHARGER DESIGNED TO CHARGE 7.0 AMP HOUR BATTERIES AND TO SUPPORT 60 HOUR STANDBY. THE FAPS SHALL HAVE TWO INPUT TRIGGERS. THE INPUT TRIGGER SHALL BE A NOTIFICATION APPLIANCE CIRCUIT (FROM THE FIRE ALARM CONTROL PANEL) OR A RELAY. FOUR OUTPUTS (TWO STYLE Y OR Z AND TWO STYLE Y) SHALL BE AVAILABLE FOR CONNECTION TO THE NOTIFICATION DEVICES. THE FAPS SHALL INCLUDE THE ABILITY TO DELAY THE AC FAIL DELAY PER NFPA REQUIREMENTS.

ANNUNCIATOR/NETWORK SYSTEM ANNUNCIATOR: WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ, PROVIDE AND INSTALL A CHARACTER DISPLAY REMOTE ANNUNCIATOR. REMOTE ANNUNCIATOR SHALL BE ELECTRICALLY SUPERVISED FROM CONTROL PANEL. REMOTE ANNUNCIATOR SHALL BE INSTALLED IN A FLUSH OR SURFACE MOUNTED CABINET WITH HINGED DOOR AND LOCK. COORDINATE FINAL LOCATION OF ALL ANNUNCIATORS WITH THE ARCHITECT AND LOCAL AHJ PRIOR TO ROUGH-IN.

FATC: PROVIDE FIRE ALARM TERMINAL CABINET AS REQUIRED OR AS SHOWN ON DRAWINGS.

HORN/STROBE: HORN/STROBE DEVICES SHALL BE WALL OR CEILING MOUNTED PER THE DRAWINGS OR AS REQUIRED BY LOCAL AHJ. SOUNDER/STROBE SHALL OPERATE ON 24 VDC POLARIZED CIRCUIT AND SHALL BE PROVIDED WITH A SEMI-FLUSH MOUNTING PLATE. STROBE LIGHT SHALL BE WHITE LEXAN WITH "FIRE" ON 2 SIDES. HORN SHALL HAVE A MINIMUM SOUND OUTPUT OF 100 DB AT 10'-0". THE STROBE SHALL HAVE A CANDELA DISTRIBUTION/RATING TO MEET ADA REQUIREMENTS.

SPRINKLER BELL: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. INCLUDE ALL COSTS IN BASE BID TO PROVIDE AND INSTALL A FLUSH HORN OR BELL PER THE EXTERIOR FLUSH HORN DETAIL. AN EXPOSED EXTERIOR BELL OR HORN IS NOT ACCEPTABLE UNLESS ITS USE IS DIRECTED BY THE LOCAL FIRE MARSHALL. THE FIRE ALARM CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE USE OF SURFACE MOUNTED BELLS/HORNS PRIOR TO ROUGH-IN.

MANUAL STATIONS: FURNISH AND INSTALL WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. DEVICE SHALL BE ADDRESSABLE UNLESS OTHERWISE NOTED. STATION SHALL BE KEYED ALIKE AS THE CONTROL PANEL.

SMOKE DETECTORS: FURNISH AND INSTALL WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. SENSORS SHALL BE ANALOG ADDRESSABLE TYPE.

DUCT SMOKE DETECTORS: DUCT SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE AND THE INSTALLATION MUST COMPLY WITH NFPA-90A. PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ.

HEAT DETECTORS: FURNISH AND INSTALL WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. SENSORS SHALL BE ADDRESSABLE.

BEAM DETECTORS: BEAM DETECTORS SHALL BE REFLECTIVE TRANSMITTER/RECEIVER TYPE WITH INTEGRAL SENSITIVITY TRANSMITTING AN INFRARED SIGNAL TO A REFLECTIVE SURFACE OR RECEIVER. THE BEAM DETECTOR SHALL HAVE A KEYED REMOTE TEST AND ALARM INDICATOR MOUNTED WITHIN 100 FEET OF THE BEAM DETECTOR. FINAL LOCATION TO BE DETERMINED BY ARCHITECT. THE BEAM DETECTOR SHALL HAVE AN INTEGRAL OPTICS ALIGNMENT (TOOL) BUILT IN THE TRANSMITTER. AN ADDRESSABLE, 4 WIRE MONITORING MODULE SHALL COMMUNICATE THE ALARM AND TROUBLE INDICATIONS OF THE BEAM DETECTOR BACK TO THE FIRE ALARM CONTROL PANEL OR TRANSPONDER.

WATERFLOW SWITCHES: WATERFLOW SWITCHES SHALL BE PROVIDED WITH A TAPPED 1/2" CONDUIT CONNECTION. THE FLOW SWITCH SHALL BE U.L. LISTED FOR ITS INTENDED PURPOSE. DEVICE TO BE FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR. TAMPER SWITCHES: SPRINKLER VALVE TAMPER SWITCHES COVER REMOVAL SHALL BE SUPERVISED. SWITCH SHALL BE PROVIDED WITH EITHER ONE OR TWO SETS OF S.P.D.T. MICRO SWITCHES AS REQUIRED. TAMPER SWITCH SHALL BE UL LISTED FOR ITS INTENDED PURPOSE. DEVICE TO BE FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR.

MONITOR MODULE: MONITOR RELAYS FOR MONITORING SMOKE DOORS, GENERATORS, AUTOMATIC TRANSFER SWITCHES, FIRE SUPPRESSION SYSTEMS, ETC. AND WHERE INDICATED ON THE DRAWINGS OR AS REQUIRED BY LOCAL AHJ.

CONTROL MODULE: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ.

MAGNETIC DOOR HOLDER: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ.

RELAY MODULE: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. RELAY(S) SHALL BE RATED FOR CONTINUOUS MOTOR OR INDUCTIVE LOADS SUCH AS COMBINATION SMOKE FIRE DAMPERS (CSFDs), MAGNETIC HOLD OPENS, ETC. QUANTITY OF RELAYS SHALL BE BASED ON PROJECT-SPECIFIC CSFD LOADS WHICH SHALL NOT EXCEED 80% OF MOTOR LOAD RATING OF THE RELAY. INCLUDE ALL COSTS IN BASE BID TO ADD ADDITIONAL 120V CONDUCTORS AS REQUIRED TO PARTITION LOADS ON INDIVIDUAL RELAYS TO MEET THE 80% RELAY MOTOR LOAD LIMIT.

RELAY MODULE: PROVIDE WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. RELAY(S) SHALL BE RATED FOR CONTINUOUS MOTOR OR INDUCTIVE LOADS SUCH AS COMBINATION SMOKE FIRE DAMPERS (CSFDs), MAGNETIC HOLD OPENS, ETC. QUANTITY OF RELAYS SHALL BE BASED ON PROJECT-SPECIFIC CSFD LOADS WHICH SHALL NOT EXCEED 80% OF MOTOR LOAD RATING OF THE RELAY. INCLUDE ALL COSTS IN BASE BID TO ADD ADDITIONAL 120V CONDUCTORS AS REQUIRED TO PARTITION LOADS ON INDIVIDUAL RELAYS TO MEET THE 80% RELAY MOTOR LOAD LIMIT.

REMOTE LED: PROVIDE REMOTE LED AND/OR REMOTE LED/TEST STATION WHERE SHOWN ON DRAWINGS OR AS REQUIRED BY LOCAL AHJ. DEVICE LOCATION SHALL BE COORDINATED WITH LOCAL AHJ AND ARCHITECT PRIOR TO ROUGH-IN.

UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER (UDACT): THE UDACT IS AN INTERFACE FOR COMMUNICATING DIGITAL INFORMATION BETWEEN A CENTRAL MONITORING CONTROL PANEL AND A U.L. LISTED CENTRAL STATION.

1. THE UDACT SHALL BE COMPACT IN SIZE, MOUNTING IN A STANDARD MODULE POSITION OF THE FIRE ALARM CONTROL CABINET. THE CONNECTION BETWEEN THE UDACT AND THE CONTROL PANEL SHALL BE COMPLETELY SUPERVISED.
2. THE UDACT SHALL INCLUDE CONNECTIONS FOR DUAL TELEPHONE LINES (WITH VOLTAGE DETECT), PER U.L./NFPA REQUIREMENTS. IT SHALL INCLUDE THE ABILITY FOR SPLIT REPORTING OF PANEL EVENTS.
3. THE UDACT SHALL BE COMPLETELY FIELD PROGRAMMABLE FROM A BUILT-IN KEYPAD AND FOUR-CHARACTER RED, SEVEN-SEGMENT DISPLAY.
4. THE UDACT SHALL BE CAPABLE OF TRANSMITTING EVENTS IN AT LEAST NINE DIFFERENT FORMATS. THIS ENSURES COMPATIBILITY WITH EXISTING AND FUTURE TRANSMISSION FORMATS. ACCEPTED FORMATS INCLUDE 3+1 STANDARD, 4+1 STANDARD, ADEMCO CONTACT ID OR 4+1 AND 4+2 ADEMCO.
5. COMMUNICATION SHALL INCLUDE VITAL SYSTEM STATUS SUCH AS:

   INDEPENDENT ZONE (ALARM, TROUBLE, NON-ALARM)
   INDEPENDENT ZONE SUPERVISORY SIGNAL
   AC (MAINS) POWER LOSS
   LOW BATTERY AND EARTH FAULT
   SYSTEM OFF NORMAL
   12 AND 24 HOUR TEST SIGNAL
   ABNORMAL TEST SIGNAL (PER UL REQUIREMENTS)
   EIA-485 COMMUNICATIONS FAILURE

6. THE UDACT SHALL INCLUDE INDEPENDENT ZONE/POINT REPORTING IN THE CONTACT ID FORMAT. IN THIS FORMAT THE UDACT SHALL SUPPORT TRANSMISSION OF UP TO 2,040 POINTS. THIS ENABLES THE CENTRAL STATION TO HAVE EXACT DETAILS CONCERNING THE ORIGIN OF THE FIRE OR RESPONSE EMERGENCY.
7. UDACT PROVISIONING SHALL BE INCLUDED IN THE BASE BID BASED ON THE FOLLOWING ASSUMPTIONS:

   ASSUME THE FOLLOWING INFORMATION WILL BE PROVIDED BY THE OWNER TO PROGRAM AN INSTALLED UDACT TO A THIRD-PARTY CENTRAL STATION:

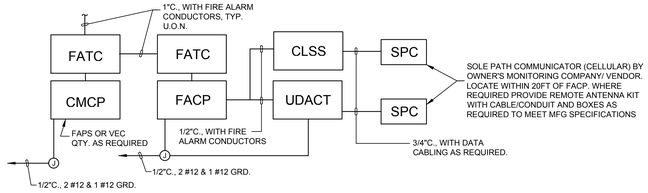
   a. MONITORING ACCOUNT NUMBER
   b. PRIMARY RECEIVER PHONE NUMBER
   c. SECONDARY RECEIVER PHONE NUMBER
   d. RECEIVER TYPE
   e. TRANSMISSION FORMAT
   f. MONITORING COMPANY NAME
   g. MONITORING COMPANY MAIN PHONE
   h. CONTACT PERSON AT MONITORING COMPANY

   ASSUME THIRD-PARTY CENTRAL STATION PROVIDER SHALL PROVIDE 72 HOURS ADVANCE NOTICE FOR FIRE ALARM CONTRACTOR/INSTALLER TO BE PRESENT FOR UDACT PROGRAMMING, PRE-TESTING, TESTING, AND CONNECTION.

   ASSUME A REPRESENTATIVE FROM THE THIRD-PARTY CENTRAL STATION IS REQUIRED AT LOCATION AT TIME OF PROGRAMMING, PRETEST AND CONNECTION. ADDITIONALLY, THIRD-PARTY CENTRAL STATION PROVIDER SHALL PROVIDE ANY MONITORING REPORTS REQUIRED BY THE FIRE DEPARTMENT. A SEPARATE PERMIT WILL BE SUBMITTED AND PAID FOR BY THE THIRD-PARTY CENTRAL STATION PROVIDER.

   CONNECTED LIFE SAFETY SERVICES (CLSS): THE CLSS IS AN INTERFACE FOR COMMUNICATING SYSTEM EVENTS VIA OWNER LOCAL AREA NETWORK. CLSS SHALL BE CONFIGURED WITH A FIXED IP ADDRESS (FURNISHED BY OWNER-IMPLEMENTED BY CONTRACTOR) TO ALLOW AUTOMATIC EMAIL OR CELL PHONE TEXT MESSAGING IN RESPONSE TO ANY SYSTEM EVENT. ADDITIONAL CLSS UNITS SHALL ALLOW VIEWING OF SYSTEM STATUS, SYSTEM EVENT HISTORY AND DEVICE PROPERTIES BASED ON ACCESS PERMISSIONS DEFINED BY THE OWNER. CONTRACTOR SHALL INCLUDE (8) HOURS OF CLSS CONFIGURATION BASED ON OWNER INPUT COMBINED WITH CONFIGURATION TRAINING FOR THE OWNER'S REPRESENTATIVES IN BASE BID.

CENTRAL MONITORING SYSTEM SCHEMATIC



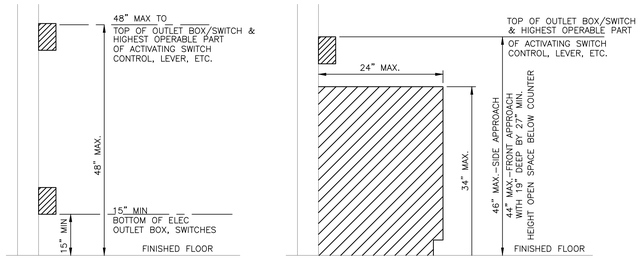
CENTRAL MONITORING SYSTEM PRODUCTS (NOTIFIER)

SYSTEM SHALL BE NOTIFIER. GENE KNUST-GRAICHEN, APPLE VALLEY COMMUNICATIONS, INC. (714) 878-4582, gene@avcsystems.com.

CMCP:	NOTIFIER #NFS-320 - FOR USE IN ONE THRU THREE STORY BUILDING WITH OR WITHOUT VEC REQUIREMENT. NOTIFIER #NFS2-640 - FOR USE IN ONE THRU FIVE STORY BUILDINGS WITH OR WITHOUT VEC REQUIREMENT. NOTIFIER #NFS2-3030 - FOR USE IN ONE THRU FIVE STORY BUILDINGS WITH ELEVATORS IN A CAMPUS ENVIRONMENT WITH OR WITHOUT VEC REQUIREMENT.
PACP:	NOTIFIER TYPE #RP 2001
ANNUNCIATOR:	NOTIFIER TYPE FDU-80 (FOR USE WITH NFS-320 AND NFS2-640) NOTIFIER TYPE LCD-160 (FOR USE WITH NFS2-3030) OR LDM-32 CUSTOM GRAPHICS PANEL (WHERE REQUIRED BY LOCAL AHJ OR INDICATED ON PLANS) NOTIFIER TYPE NCA-2 (FOR USE AS CAMPUS/NETWORK ANNUNCIATOR)
FATC:	18"x 18"x 4" METAL CABINET WITH SCREW COVER (FOR USE WITH NFS-320) 24"x 24"x 6" METAL CABINET WITH SCREW COVER (FOR USE WITH NFS2-640 & NFS2-3030)
POWER SUPPLY(FAPS):	NOTIFIER #PSE-10 NOTIFIER #ACPS-610
HORN / STROBE:	SYSTEM SENSOR #L-SERIES
STROBE:	SYSTEM SENSOR #L-SERIES
SPEAKER/ STROBE:	SYSTEM SENSOR #L-SERIES
SPEAKER:	SYSTEM SENSOR #L-SERIES
SPRINKLER BELL:	NOTIFIER #KMS-10-24. SEE EXTERIOR FLUSH HORN DETAIL. SYSTEM SENSOR #SSM SERIES
MANUAL STATION:	NOTIFIER #NBG-12LX.
PREACTION RELEASING STATION:	NOTIFIER #NBG-12LR W/FMM-101
SMOKE DETECTORS: (RETURN AIR, AREA, IN-DUCT AREA)	NOTIFIER #FSP-951 PHOTOELECTRIC
SMOKE / CO DETECTORS:	SYSTEM SENSOR #FCO-951
SOUNDER BASE (INTELLIGENT):	SYSTEM SENSOR #B200-S (WHERE COMBINATION CO/ SMOKE DETECTORS ARE REQUIED) SYSTEM SENSOR #B200-SLF (LOW FREQUENCY SOUND FOR USE IN SLEEPING AREAS)
DUCT DETECTORS (SMOKE):	NOTIFIER #DNR W/FSP-951R SMOKE DETECTOR HEAD
HEAT DETECTORS:	NOTIFIER #FST-951
BEAM SMOKE DETECTORS:	NOTIFIER #FS-OSI-R1/RTS151KEY
WATERFLOW:	NOTIFIER #WFD SERIES.
TAMPER:	NOTIFIER #PIBV2 SERIES NOTIFIER #OSY2 SERIES.
MONITOR MODULE:	NOTIFIER #FMM-1, #FDM-1, OR FMM-101
CONTROL MODULE:	NOTIFIER #FCM-1
ADDRESSABLE CONTROL RELAY:	NOTIFIER #FRM-1 WITH SYSTEM SENSOR #PR-1 OR #R-10T AS REQUIRED
MAG DOOR HOLDER:	NOTIFIER #FM SERIES
REMOTE LED:	NOTIFIER #RA100Z or, if required, #RTS151 series
COMMUNICATOR:	NOTIFIER MODEL #UDACT2
SOLE PATH COMMUNICATOR (SFC):	NAPCO OR EQUAL (WITH CELLULAR SERVICE)
CONNECTED LIFE SAFETY SERVICES(CLSS):	NOTIFIER TYPE #CLSS
VOICE EVACUATION SYSTEM:	NOTIFIER #NFC-50/100
ALL OTHER MISCELLANEOUS ITEMS:	NOTIFIER / WHEELOCK / KIRKLAND / SYSTEM SENSOR

EXISTING SYSTEM EXTENSION REQUIREMENTS

1. ALL SYSTEM EXTENSIONS AND FINAL CONNECTIONS TO THE EXISTING FIRE ALARM (FA) OR CENTRAL MONITORING (CM) SYSTEM SHALL BE MADE BY THE BUILDING OWNER'S FIRE ALARM CONTRACTOR, CONTRACTING DIRECTLY WITH THE ELECTRICAL/GENERAL CONTRACTOR, INCLUDING FINAL TESTING AND COORDINATION WITH THE FIRE MARSHAL AND BUILDING OWNER'S SECURITY DEPARTMENT.
2. THE CONTRACTOR SHALL COORDINATE THE LOGISTICS AND WORK IMPLEMENTATION WITH THE BUILDING OWNER, BUILDING OWNER'S SECURITY STAFF, ALARM MONITORING COMPANY AND FIRE ALARM CONTRACTOR BEFORE STARTING ANY WORK.
3. EVERY SURPLUS FA/CM DEVICE, RESULTING FROM THIS PROJECT, SHALL BE TURNED OVER TO THE BUILDING OWNER.
4. THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING OWNER'S FIRE ALARM CONTRACTOR TO DETERMINE THE EXTENT OF THEIR WORK INCLUDING, BUT NOT LIMITED TO, SUCH ITEMS AS CONDUITS, WIRES, "J" BOXES, ETC. THE ACTUAL FINAL CONNECT



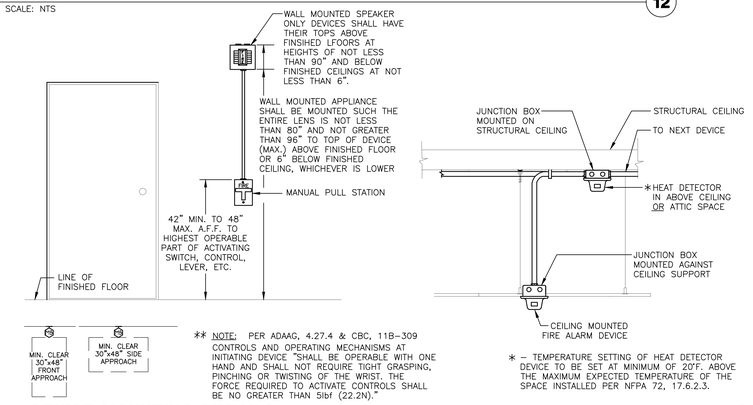
MOUNTING HEIGHT
11B-308.2.1
11B-308.3.1

OVER OBSTRUCTION
11B-308.2.2
11B-308.3.2

ALL DEVICE HEIGHTS DEPICTED SHALL BE MODIFIED AS REQUIRED BY GOVERNING BUILDING CODES. CONTRACTOR TO VERIFY/RECONCILE APPLICABLE CODE REQUIREMENTS AND ANY DEVICE HEIGHT REQUIREMENTS DEPICTED ON ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS PRIOR TO DEVICE ROUGH-IN. CONFLICTS OR LACK OF MOUNTING HEIGHT SPECIFICITY ON THE ARCHITECTURAL OR INTERIOR DESIGN PLANS & SPECIFICATIONS SHALL BE CAUSE FOR THE CONTRACTOR TO ISSUE A FORMAL WRITTEN RFI FOR RESOLUTION. DEVICE MOUNTING HEIGHT CLARIFICATIONS/SPECIFICATIONS SHALL NOT RESULT IN AN ADDITIONAL COST TO THE OWNER – CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID.

MOUNTING HEIGHT OVER OBSTRUCTION DETAIL 12

SCALE: NTS

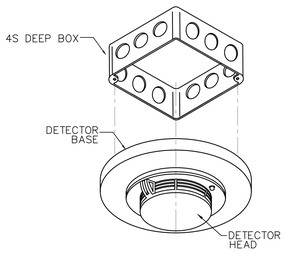


** NOTE: PER ADAAG, 4.27.4 & CBC, 11B-309 CONTROLS AND OPERATING MECHANISMS AT INITIATING DEVICE "SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5lbf (22.2N)."

* – TEMPERATURE SETTING OF HEAT DETECTOR DEVICE TO BE SET AT MINIMUM OF 20°F. ABOVE THE MAXIMUM EXPECTED TEMPERATURE OF THE SPACE INSTALLED PER NFPA 72, 17.6.2.3.

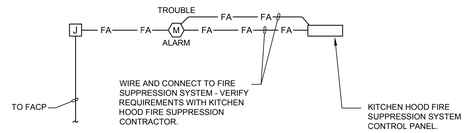
DEVICE MOUNTING DETAILS 11

SCALE: N.T.S.



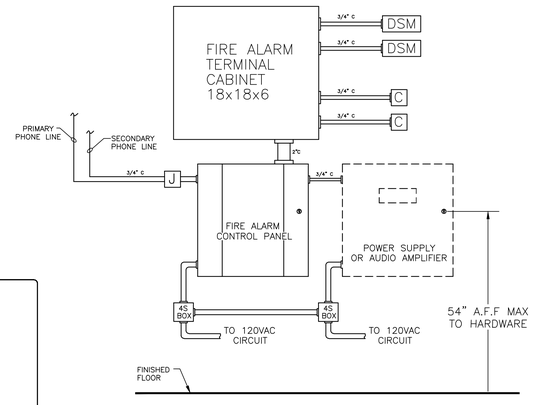
DETECTOR MOUNTING DETAIL 8

SCALE: N.T.S.



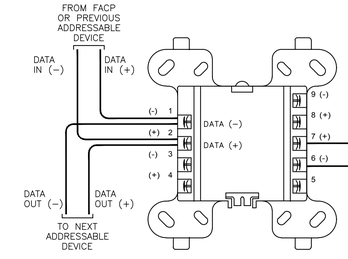
KITCHEN HOOD FIRE SUPPRESSION SYSTEM SCHEMATIC 7

SCALE: N.T.S.

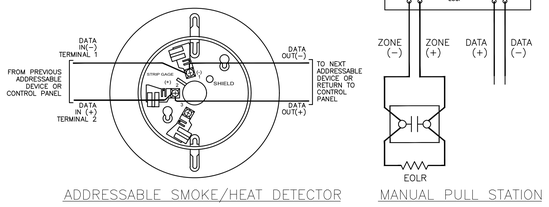


FIRE ALARM PANEL/POWER SUPPLY MOUNTING ELEVATION 6

SCALE: N.T.S.



CONTROL MODULE WIRING

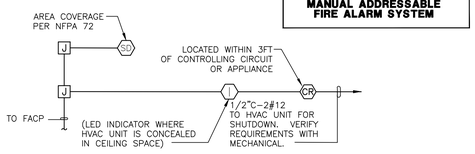


ADDRESSABLE SMOKE/HEAT DETECTOR

MANUAL PULL STATION

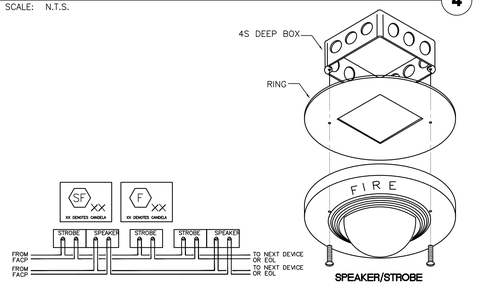
DEVICE WIRING DETAILS 5

SCALE: N.T.S.



HVAC SHUT DOWN SCHEMATIC (AREA COVERAGE) 4

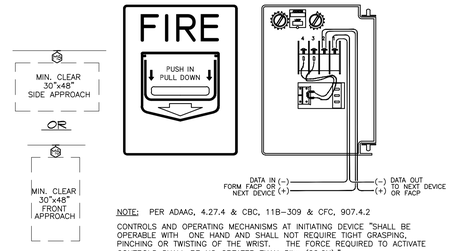
SCALE: N.T.S.



SPEAKER/STROBE

CEILING MTD. AUDIBLE/VISUAL 3

SCALE: N.T.S.

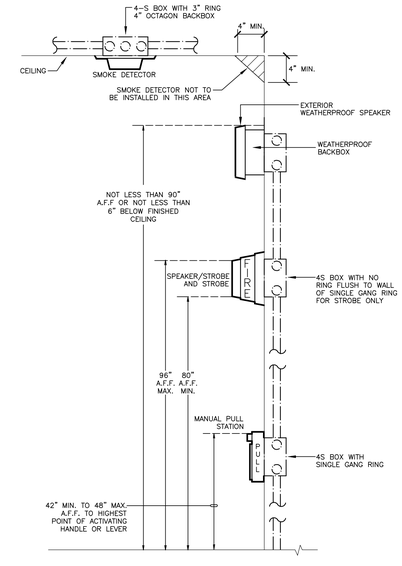


NOTE: PER ADAAG, 4.27.4 & CBC, 11B-309 & CFC, 907.4.2

CONTROLS AND OPERATING MECHANISMS AT INITIATING DEVICE "SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5lbs (22.2N)."

PULL STATION DETAIL 2

SCALE: N.T.S.

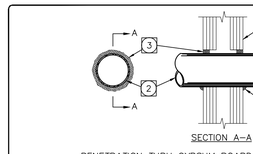


GENERAL NOTES:

1. THE ENTIRE LENS OF STROBE LIGHTS MUST BE BETWEEN 80" AND 96" ABOVE FLOOR FINISH. (NFPA 72, 18.5.5)
2. MANUAL FIRE ALARM BOXES SHALL BE INSTALLED IN ACCORDANCE WITH CFC, SECTIONS 907.4 THROUGH 907.5.
3. WHEN APPLICABLE, MANUAL FIRE ALARM BOXES SHALL BE LOCATED NOT MORE THAN 5 FEET FROM THE ENTRANCE TO EACH EXIT. ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT TRAVEL DISTANCE TO THE NEAREST BOX DOES NOT EXCEED 200 FEET. (CFC, 907.4.2.1)

MOUNTING HEIGHT DETAIL 1

SCALE: N.T.S.



SECTION A–A

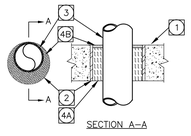
PENETRATION THRU GYPSUM BOARD WALL
NO SCALE

System No.W-L-1252
January 22, 2013
F Ratings – 1, 2, 3 and 4 Hr (See Items 1 and 3)
T Ratings – 0 Hr
L Rating At Ambient – less than 1 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft

1. Wall Assembly – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs – Wall framing may consist of steel channel studs. Steel studs to be min 3-1/2 in. (89 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* – Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant – One metallic pipe, conduit or tube to be installed either concentricity or eccentricity within the firestop system. The annular space between the pipe, conduit or tube and periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). Pipe, conduit or tube to be rigidly supported on both sides of wall assembly.
   A. Steel Pipe – Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe – Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit – Nom 4 in. (102 mm) diam (or smaller) rigid steel conduit.
   D. Conduit – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic conduit.
   E. Copper Tubing – Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   F. Copper Pipe – Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* – Sealant – 1. Fill material applied within annulus , flush with both surfaces of wall. Type and thickness of sealant is dependent on F and FH Ratings as indicated in Table below. An additional 1/2 in. (13 mm) diameter bead of sealant applied at penetrant/gypsum board interface at point contact location on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP 606 Sealant

F, FH RATINGS (HR)	SEALANT TYPE	SEALANT THICKNESS, IN. (MM)
1,2	FS-ONE, FS-ONE MAX OR CP 606	5/8 (16)
3	FS-ONE, FS-ONE MAX OR CP 606	1 (25)
4	FS-ONE, FS-ONE MAX	1 (25)

*Bearing the UL Classification Marking



SECTION A–A

PENETRATION THRU CONCRETE WALL OR FLOOR
NO SCALE

System No. C-AJ-1630
DECEMBER 20, 2013
F Ratings – 1, 2, 3 and 4 Hr (See Item 4)
T Rating – 0 Hr
L Rating At Ambient – less than 1 CFM/sq ft
L Rating At 400 F – less than 1 CFM/sq ft
W Rating – Class 1 (See Item 4)

1. Floor or Wall Assembly – 1. See Configuration A above. Reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/cu meter) concrete as specified in the Table in Item 4 below. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of sleeved opening is 32 in. (813 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

1A. Floor Assembly – See Configuration B above. Min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. Max diam of opening is 7 in. (178 mm).
See Precast Concrete Units (CFTV) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Sleeve (Optional) – Nom 32 in. (813 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with both surfaces of floor or wall. As an option, sleeve may extend max 2 in. above top surface of floor or beyond one or both surfaces of wall. Steel sleeve may be used in 2 and 3 hr F Rated systems only.

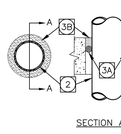
3. Through Penetrants – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used. See Item 3C below for size of conduit that may be used. The annular space shall be as specified in Table in Item 4 below. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe – -- Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe – Cast or ductile iron pipe.
   C. Conduit – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) diam (or smaller) steel conduit.
   D. Copper Tubing – Type L (or heavier) copper tubing.
   E. Copper Pipe – Regular (or heavier) copper pipe.
4. Firestop System – The F Rating of the system is dependent upon the type of concrete, thickness of concrete, annular space, fill and packing material thickness, packing material density and penetrant size as shown in the Table below. W Rating applies to annular spaces of min 0 in. (point contact) to max 1-7/8 in. and to Configuration A detail only.

F RATING HR	MIN THICK CONCRETE IN.	ANNULAR SPACE IN.	MIN THICK PACKING MTL IN.	MIN DENSITY PACKING MTL PCF KG/CU MTR	MIN THICK FILL MTL IN.	PENETRANT SIZE IN. DIAM (OR SMALLER) EL. PIPE, CONDUIT OR TUBE: COPPER	STEEL IRON
2	5-1/2(140)	0 TO 1-7/8 (0 TO 48)	5 (127)	4 (64)	1/2 (13)	4 (102)	16 (406)
3	4-1/2(114)	0 TO 2-1/8 (0 TO 54)	4-1/4 (108)	4 (64)	1/4 (6)	6 (152)	30 (762)
4	5-1/2(140)	0 TO 1-7/8 (0 TO 48)	5 (127)	4 (64)	1/2 (13)	4 (102)	8 (203)

A. Packing Material -- Min 4-1/4 or 5 in. (108 or 127 mm) thickness of min 4.0 pcf (64 kg/cu meter) mineral wool fiber insulation firmly packed into opening as a permanent form as specified in the Table above. Packing material to be recessed from top surface of floor or top end of sleeve, or from both surfaces of wall or ends of sleeve, as required to accommodate the required thickness of fill material. For hollow-core floor applications as shown in Configuration B, one half of the required thickness of mineral wool packing material shall be installed flush with the bottom surface of the floor and the remaining half of the mineral wool packing material installed at the top of the opening and recessed from the top surface of the floor to accommodate the required thickness of the fill material.

B. Fill, Void or Cavity Material* -- Caulk -- Min 1/4 or 1/2 in. (6 or 13 mm) thickness of fill material as specified in the Table above applied within the annulus, flush with top surface of floor or top end of sleeve, or with both surfaces of wall or ends of sleeve. At the point contact location between pipe and concrete or sleeve, a min 1/2 in. (13 mm) diam bead of fill material shall be applied. As an option, for hollow-core floor applications, fill material (min 1/4 in.) on the bottom surface of the floor may be recessed to accommodate a 1/4 in. (6 mm) depth of fill material installed flush with bottom surface of floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CFS-S SIL GG (floors or walls) and CFS-S SIL SL (floors only)

*Bearing the UL Classification Mark



SECTION A–A

PENETRATION THRU CONCRETE FLOOR
NO SCALE

SYSTEM NO. C-AJ-1276
April 20, 2012
F RATING–3 HR
T RATING–0 HR

Floor or Wall Assembly – 1. Floor or Wall Assembly -- Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants – One metallic pipe, conduit or tubing to be centered within the firestop system. A nom annular space of 3/4 in. (19 mm) is required within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe – Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit – Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.

3. Firestop System – The firestop system shall consist of the following:
A. Packing or Forming Materials -- Optional -- One of the following packing or forming materials may be used:

A1. Foam Backer Rod -- Foam backer rod tightly packed into the opening as a permanent form. Packing material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.

A2. Mineral Wool Batt Insulation -- Min 4 pcf (64 kg/m3), tightly packed into the opening as a permanent form. Packing material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.

A3. Forming Material* -- Forming material to be foamed into the opening as a permanent form. Forming material to be recessed from the top surface of floor or both surfaces of wall as required to accommodate the required thickness of putty.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CFB12 or CF-AS CJP Foam Sealant

B. Fill, Void or Cavity Material* -- Putty -- Min 1 in. (25 mm) thickness of putty applied within the annulus, flush with top surface of floor or with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP 618 Firestop Putty Stick

*Bearing the UL Classification Mark

THROUGH RATED WALL OR FLOOR PENETRATIONS (U.L. LISTINGS) 10

SCALE: N.T.S.

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Electrical Lead - Jerry Leonhardt
WSP Job #: 62305186.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RICHMOND W. SHAFFER No. E15610 12/31/2025 ELECTRICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY CORNING VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FIRE ALARM DETAILS

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

FA0.1

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Plot Date: October 06, 2025 - 3:15 pm
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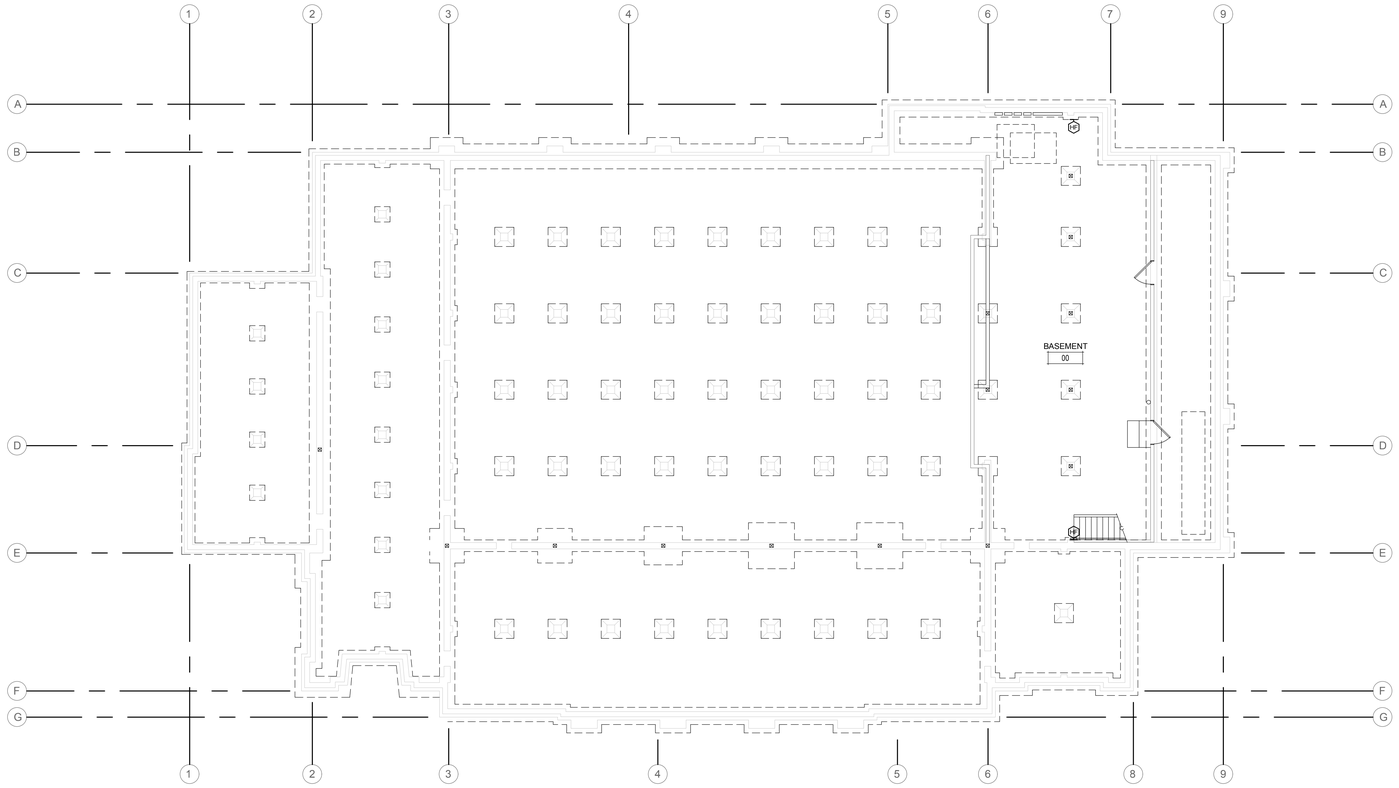

FIRE ALARM FLOOR PLAN - BASEMENT

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1 .

FIRE ALARM PLAN GENERAL NOTES:

1. NOTIFICATION DEVICES IN ROOMS CONTAINING (2) OR MORE AUDIBLE AND/OR (2) OR MORE VISUAL DEVICES SHALL BE SYNCHRONIZED PER NFPA 72. THIS SHALL INCLUDE AUDIBLE AND VISUAL DEVICES LOCATED IN ADJACENT/ADJOINING SPACES.
2. DO NOT DEVIATE FROM CONDUIT RUNS AS SHOWN ON FLOOR PLANS WITHOUT PRIOR APPROVAL FROM SYSTEM SUPPLIER / ENGINEER. FACTORS SUCH AS EXCESSIVE VOLTAGE DROP, ADDITIONAL PARTS, ENGINEERING, ETC. THAT ARE A RESULT OF CONDUIT RUN DEVIATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 3 FEET (915 mm) FROM ANY AIR SUPPLY DIFFUSER.
4. THE AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING PER CFC SECTION 907.5.2.1.1. THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 60 dBA PER NFPA 72, TABLE A.18.4.3.
5. REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR PRECISE OUTLET LOCATIONS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
7. IF SHIELDED WIRE IS USED, THE FOLLOWING MUST BE OBSERVED.
   A. METALLIC CONTINUITY OF THE SHIELD MUST BE MAINTAINED AND INSULATED THROUGHOUT THE ENTIRE LENGTH OF THE CABLE.
   B. THE ENTIRE LENGTH OF THE CABLE MUST HAVE A RESISTANCE GREATER THAN 1 MEGOHM TO EARTH.
8. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE FIRE RATING OF THE STRUCTURE / SURFACE BEING PENETRATED AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE FIRE ALARM SECTION OF THE PROJECT SPECIFICATIONS.
9. A SYSTEM GROUND MUST BE PROVIDED FOR EARTH DETECTION AND LIGHTNING PROTECTION DEVICES. THIS CONNECTION SHALL BE MADE TO AN APPROVED DEDICATED EARTH CONNECTION PER CEC, ARTICLE 250.
10. WIRING IN DUCTS, PLENUMS AND OTHER AIR HANDLING SPACES MUST BE INSTALLED IN ACCORDANCE WITH CEC.
11. UNDERGROUND WIRING MUST BE FREE OF ALL WATER.
12. ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE RUN IN A DEDICATED FIRE ALARM CONDUIT SYSTEM.
13. WHERE A DETECTOR IS INDICATED TO BE INSTALLED ABOVE THE CEILING AND NO ACCESS TO THE CEILING SPACE EXISTS, THE ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS. THE DETECTOR SHALL BE EASILY ACCESSIBLE AND THE LOCATION OF THE DETECTOR SHALL BE CLEARLY MARKED.
14. FIRE ALARM SYSTEM UTILIZES A MANUAL SYSTEM. PROVIDE RELAY MODULE(S) AT FATC/FACP LOCATIONS FOR CONTROL OF HVAC SHUT DOWN, SMOKE/FIRE DAMPER CLOSURE AND DOOR HOLD RELEASES.
15. WHERE NEW DEVICES (AND ASSOCIATED CONDUIT) CANNOT PHYSICALLY BE MOUNTED CONCEALED IN WALLS, RUN IN PANDUIT SURFACE RACEWAY/WIREWAY (AND DEVICES SHALL BE MOUNTED ON SURFACE OUTLET BOXES). REFER TO SPECIFICATIONS. PROVIDE SIZE OF RACEWAY TO ACCOMMODATE THE REQUIRED CONDUCTORS. WHERE CONDUIT IS INDICATED, PROVIDE SURFACE RACEWAY WITH AN EQUAL CROSS SECTION TO THE DIAMETER OF THE CONDUIT INDICATED.
16. DETECTOR SENSITIVITY SHALL BE TESTED USING MANUFACTURER'S CALIBRATED SENSITIVITY INSTRUMENT OR OTHER CALIBRATED TESTING METHOD. (CFC, SECTIONS 907.8.3 AND 907.8.4)

FIRE ALARM DEFERRED SUBMITTAL

MANUAL ADDRESSABLE FIRE ALARM SYSTEM

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Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

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REGISTERED PROFESSIONAL ENGINEER
RICHMOND W. SHAFFER
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FIRE ALARM
FLOOR PLAN -
BASEMENT

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

FA2.1

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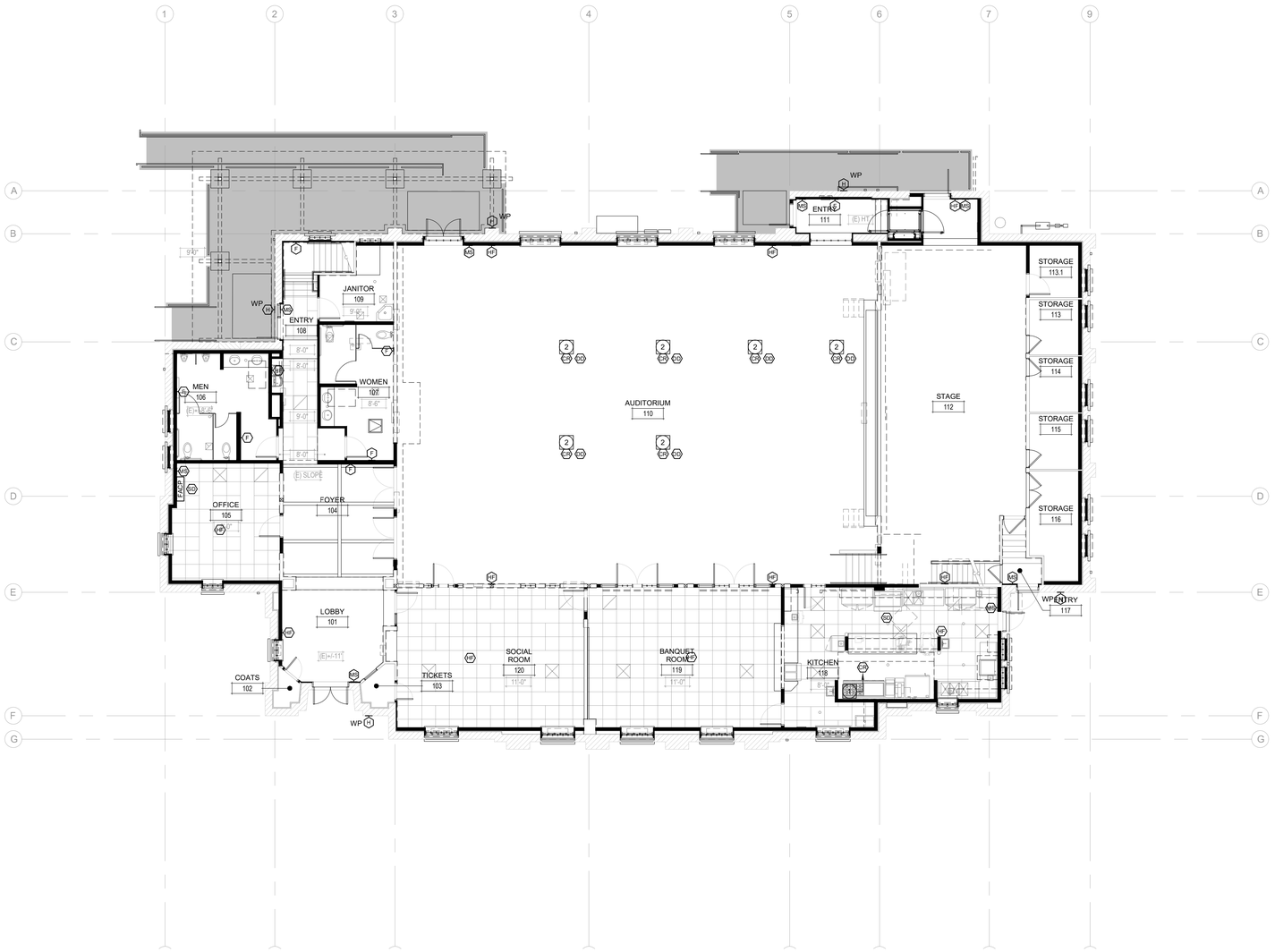

FIRE ALARM FLOOR PLAN - LEVEL 1

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. CONNECT CONTROL RELAY MODULE AS REQUIRED TO ANSUL SYSTEM. PROVIDE SOLENOID VALVE, ISIMET SERIES 300 (120V-45A) & CONTROL PANEL WITH 120V 15A CIRCUIT SUPPLY WITH INTERNAL 5A CIRCUIT BREAKER SWITCH PROTECTION AND CONNECT TO UL-300 COMPLIANT ANSUL SYSTEM. PROVIDE 3/4"C. - 2#12, 1#12 GRD. FROM NEAREST SPARE PANELBOARD. VERIFY CONNECTION REQUIREMENTS WITH HOOD MANUFACTURER.

2. CONNECT AS REQUIRED TO HVAC UNIT FOR UNIT SHUT-DOWN. REFER TO DETAIL 4, SHEET FA0.1 FOR ADDITIONAL REQUIREMENTS.

FIRE ALARM PLAN GENERAL NOTES:

1. NOTIFICATION DEVICES IN ROOMS CONTAINING (2) OR MORE AUDIBLE AND/OR (2) OR MORE VISUAL DEVICES SHALL BE SYNCHRONIZED PER NFPA 72. THIS SHALL INCLUDE AUDIBLE AND VISUAL DEVICES LOCATED IN ADJACENT/ADJOINING SPACES.
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3. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR-FLOW, NOR CLOSER THAN 3 FEET (915 mm) FROM ANY AIR SUPPLY DIFFUSER.
4. THE AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING PER CFC SECTION 907.5.2.1.1. THE MINIMUM SOUND PRESSURE LEVEL SHALL BE 60 dBA PER NFPA 72, TABLE A.18.4.3.
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6. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
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FIRE ALARM DEFERRED SUBMITTAL

MANUAL ADDRESSABLE FIRE ALARM SYSTEM

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Project Leader - Jerry Leonhardt
Electrical Lead - Jerry Leonhardt
WSP Job #: B2305166.000

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REGISTERED PROFESSIONAL ENGINEER
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No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FIRE ALARM
FLOOR PLAN -
LEVEL 1

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

FA2.2

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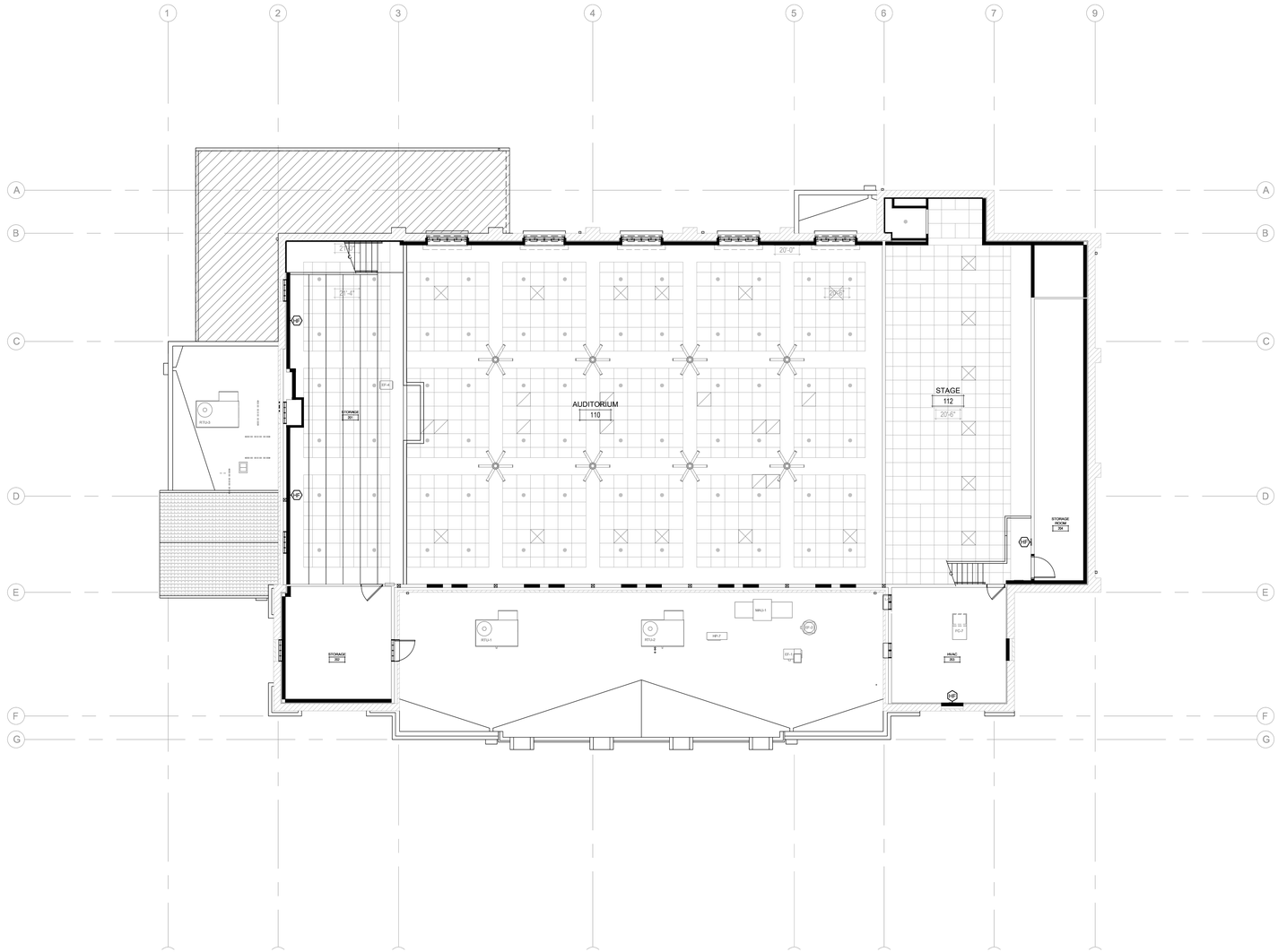

FIRE ALARM FLOOR PLAN - LEVEL 2

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1 -

FIRE ALARM PLAN GENERAL NOTES:

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FIRE ALARM DEFERRED SUBMITTAL

MANUAL ADDRESSABLE FIRE ALARM SYSTEM

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RAYMOND W. SHAFFER
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

FIRE ALARM
FLOOR PLAN -
LEVEL 2

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1/8" = 1'-0"
Project No.	21-6497

SHEET No.

FA2.3

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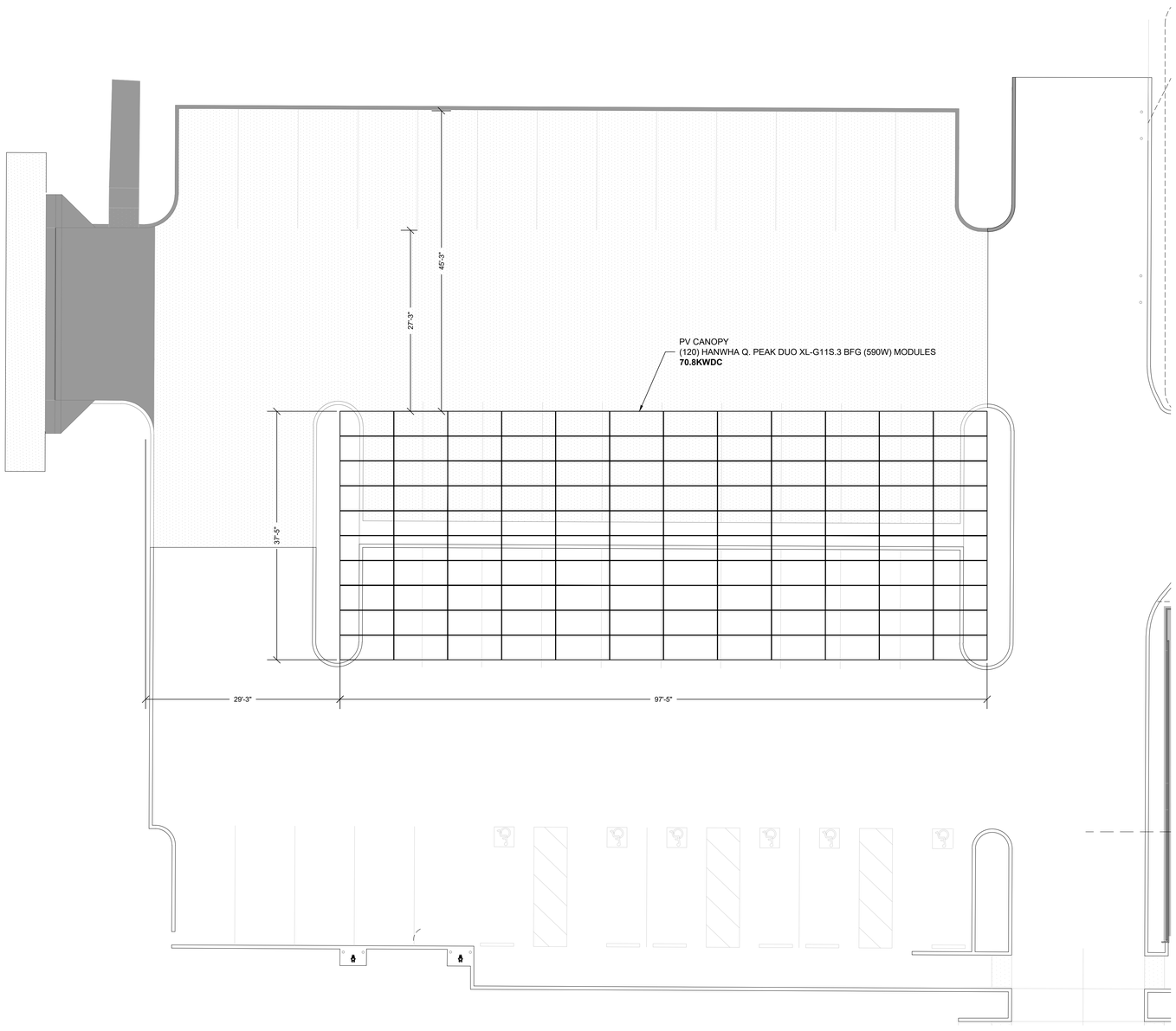

ENLARGED PARKING AREA 1/8" = 1'-0" 01

SCOPE OF WORK

1. THE SOLAR ARRAY AND STRUCTURE ARE ADDITIVE ALTERNATE #3.
2. PV SHEETS ARE INTENDED TO SUPPORT A DESIGN-BUILD APPROACH.
3. FULL PV DESIGN IS INTENDED FOR FUTURE SCOPE. THE PERMIT FOR THE PV CANOPY SHALL BE BY OTHERS.
4. THE EQUIPMENT SPECIFIED IS A BASIS OF DESIGN. EQUIVALENT EQUIPMENT CONFORMING TO THE PROJECT SPECIFICATIONS (**26 31 00**) IS ACCEPTABLE.

SHEET NOTES

1. THE PV LAYOUT IS FOR REFERENCE ONLY.
2. STEEL CANOPY DESIGN AND PV MODULE ATTACHMENT DETAIL IS BY OTHERS.

PV SYSTEM DETAILS

DC SIZE	70.8 KWDC
MODULE	(120) HANWHA Q.PEAK DUO XL-G11S.3/BFG
(590W)	
AC SIZE	175 KWAC
INVERTER	(3) CPS SCA25KTL-DO-US-208
AZIMUTH/TILT	180° / 7°
RACKING	PV PARKING CANOPY

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Project Leader - Jerry Leonhardt
Photovoltaic Lead - Jessica Kendrick
WSP Job #: B2305166.000

LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER
RAYMOND W. SARGENT
No. E15610
12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PV LAYOUT -
PARKING AREA

DRAWING STATUS

CONSTRUCTION
DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	1"=20'-0"
Project No.	21-6497

SHEET No.

PV-2.1

Login Name: LEAK70350
Plot Date: February 13, 2025 - 12:53 pm
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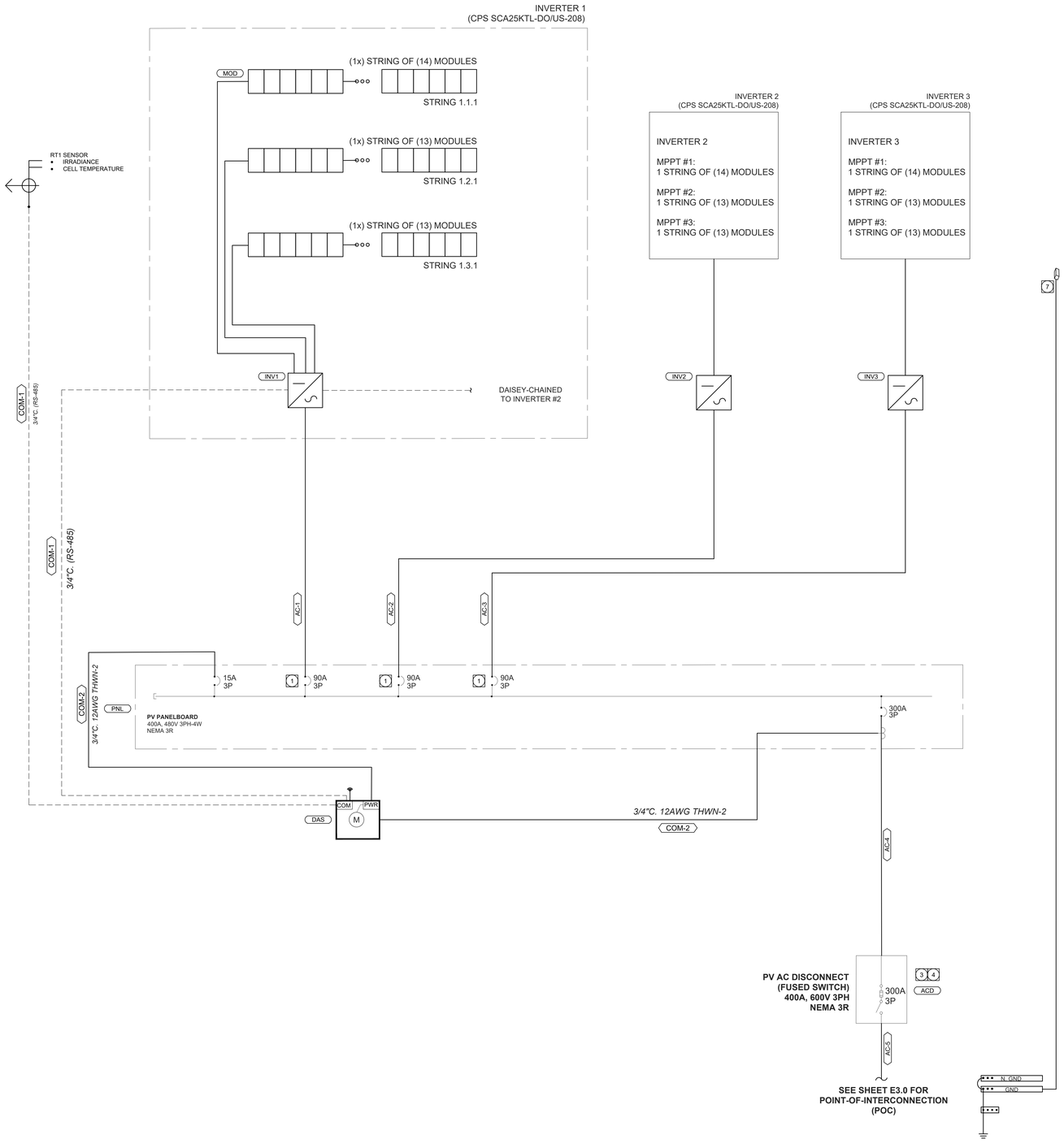
XREFs to Work File Sheet: x-CIVIL.dwg, x-CIVIL-GRID.dwg, x-CIVIL-SITE.dwg



GENERAL FEEDER NOTES:

1. CONDUCTORS SHALL BE COPPER ONLY. DC CONDUCTORS SHALL BE RATED FOR A MINIMUM OF 90°C.
2. ALL FEEDERS SHOWN, UNLESS SPECIFICALLY NOTED OTHERWISE, ARE PRESUMED TO BE ROUTED IN METAL RACEWAYS. IF P.V.C. CONDUITS ARE UTILIZED, THE CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND PER NEC, OR CEC WHERE ADOPTED, TABLE 250.122 OR, WHERE REQUIRED, PROVIDE A MAIN BONDING JUMPER PER TABLE 250.66 AND INCREASE THE CONDUIT SIZE ACCORDINGLY.
3. DISTANCE SHOWN IS FOR DESIGN PURPOSES ONLY. IT IS NOT A MATERIAL TAKEOFF.
4. VOLTAGE DROP VALUE INDICATED IS AT THE END OF THE FEEDER.
5. AVAILABLE FAULT CURRENT VALUE AT THE END OF THE FEEDER INDICATED. CALCULATIONS ARE BASED UPON INITIAL VALUES RECEIVED FROM THE SERVING UTILITY AND THE LENGTH AND IMPEDANCE OF THE FEEDER. THE SHORT CIRCUIT CURRENT RATING, EQUIPMENT BUS BRACING, AND/OR AMP INTERRUPTING CURRENT OF EQUIPMENT CONNECTED ON THE LOAD SIDE OF THE FEEDER SHALL BE GREATER THAN THE AVAILABLE FAULT CURRENT.

GENERAL SINGLE LINE DIAGRAM NOTES:

1. REFER TO MANUFACTURERS SPECIFICATIONS FOR PROPER INSTALLATION OF EQUIPMENT.
2. ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE OVERALL RATING OF THE EQUIPMENT-SERIES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED.
3. BOND METAL STRUCTURE TO SYSTEM GROUND. PV SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC 690.43.
4. BOND PV RACKING PER MANUFACTURER'S INSTALLATION REQUIREMENTS. INSTALL 6 AWG CU UNLESS OTHERWISE NOTED BY RACKING MANUFACTURER.

SPECIFIC SINGLE LINE NOTES:

1. PV BREAKER SHALL BE GFP-EQUIPPED AND SUITABLE FOR BACKFEED PER NEC 705.32.
2. N/A
3. DISCONNECT SHALL BE 24/7 ACCESSIBLE, LOCKABLE, VISIBLE TYPE PER UTILITY REQUIREMENTS.
4. EACH PV SYSTEM DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED PER NEC 690.13(B).
5. METER TO BE NET METERED. CONFIRM EXACT REQUIREMENTS WITH UTILITY.
6. THE BUILD CONTRACTOR SHALL BE RESPONSIBLE FOR FACILITATING UTILITY INTERCONNECTION APPROVAL AND COORDINATING INSPECTIONS ASSOCIATED WITH PERMISSION TO OPERATE (PTO).
7. THE RACKING SYSTEM IS NOT UL LISTED OR IDENTIFIED TO BOND PV MODULE FRAMES TO THE RACKING. THEREFORE, AN EGC SHALL BE INSTALLED FOR THE PURPOSE OF AN ELECTRICAL BOND WEHRE THE COMPONENTS ARE MECHANICALLY CONNECTED.

   PV MODULES SHALL BE BONDED BY INSTALLING AN ILSCO (OR EQUIVALENT) SOLAR GROUNDING LUG AT THE MODULE FRAME WITH A DAISY-CHAINED 10AWG BARE CU WIRE (OR APPROVED GROUNDING EQUIVALENT).

EQUIPMENT SCHEDULE

ID	EQUIPMENT	QTY
MOD	HANWHA Q.PEAK DUO XL-G11S.3 BFG (590W)	120
INV	CPS SCA25KTL-DO/US-208	3
PNL	400A, 480V 3PH, NEMA 3R, PANELBOARD	1
ACD	400A, 600V 3PH, NEMA 3R, VISIBLE LOCKABLE AC DISCONNECT	1

SCOPE OF WORK

1. THE SOLAR ARRAY AND STRUCTURE ARE ADDITIVE ALTERNATE #3.
2. PV SHEETS ARE INTENDED TO SUPPORT A DESIGN-BUILD APPROACH.
3. FULL PV DESIGN IS INTENDED FOR FUTURE SCOPE. THE PERMIT FOR THE PV CANOPY SHALL BE BY OTHERS.
4. THE EQUIPMENT SPECIFIED IS A BASIS OF DESIGN. EQUIVALENT EQUIPMENT CONFORMING TO THE PROJECT SPECIFICATIONS (**26 31 00**) IS ACCEPTABLE.

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RAYMOND W. SWANSON
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12/31/2025
ELECTRICAL
STATE OF CALIFORNIA

PROJECT NAME

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CORNING
VETERAN'S HALL

1620 SOLANO ST.
CORNING, CA

SHEET TITLE

PV SINGLE LINE DIAGRAM

DRAWING STATUS

CONSTRUCTION DOCUMENTS

REVISIONS

Sym.	Description	Date

Drawn By	
Date Issued	2/13/2025
Scale	-
Project No.	21-6497

SHEET No.

PV-3.2

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Q.PEAK DUO XL-G11S SERIES

585-600Wp | 156Cells
21.5% Maximum Module Efficiency

MODEL Q.PEAK DUO XL-G11S.3/BFG

Bifacial energy yield gain of up to 21%
Bifacial Q.ANTUM solar cells make efficient use of light shining on the module rear-side for radically improved LCOE.

Low electricity generation costs
Q.ANTUM DUO technology with optimized module layout to boost module power and improve LCOE.

A reliable investment
Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty[1].

Enduring high performance
Long-term yield security with Anti LID and Anti PID Technology[2], Hot-Spot Protect.

Frame for versatile mounting options
High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (2400 Pa).

Innovative all-weather technology
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

[1] See data sheet on rear for further information.
[2] APT test conditions according to IEC/TS 62804-1:2015 method B (−1500 V, 168 h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)

The ideal solution for:
Ground-mounted solar power plants

Q.PEAK DUO XL-G11S SERIES

■ Mechanical Specification

Format	96.9 in × 44.6 in × 1.38 in (including frame) (2462 mm × 1134 mm × 35 mm)
Weight	76.9 lbs (34.9kg)
Front Cover	0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	0.08 in (2.0 mm) semi-tempered glass
Frame	Anodised aluminium
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 × 1.26-2.36 × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 29.5 in (750 mm), (-) ≥ 13.8 in (350 mm)
Connector	Stäubli MC4-Evo2

■ Electrical Characteristics

POWER CLASS			585		590		595		600	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC[1] (POWER TOLERANCE +5W/−0W)										
				BSTC*		BSTC*		BSTC*		BSTC*
Minimum	Power at MPP[2]	P_{MPP} [W]	585	639.9	590	645.4	595	650.8	600	656.3
	Short Circuit Current[2]	I_{SC} [A]	13.72	15.01	13.74	15.04	13.77	15.07	13.80	15.10
	Open Circuit Voltage[2]	V_{OC} [V]	53.57	53.76	53.60	53.79	53.63	53.82	53.66	53.85
	Current at MPP	I_{MPP} [A]	13.07	14.30	13.12	14.36	13.17	14.41	13.22	14.46
	Voltage at MPP	V_{MPP} [V]	44.75	44.74	44.96	44.95	45.18	45.17	45.39	45.38
	Efficiency[4]	η [%]	≥21.0		≥21.1		≥21.3		≥21.5	

Bifaciality of P_{MPP} and I_{SC} 70 % ± 5 % • Bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-1-2

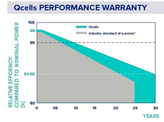
[1]Measurement tolerances P_{MPP} ± 3 %; I_{SC}; V_{OC} ± 5 % at STC: 1000 W/m²; [2]at BSTC: 1000 W/m² + φ × 135 W/m², φ = 70 % ± 5 %, 25 ± 2 °C, AM 1.5 according to IEC 60904-3

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT[3]

Minimum	Power at MPP	P_{MPP} [W]	440.5	444.2	448.0	451.8
	Short Circuit Current	I_{SC} [A]	11.05	11.07	11.09	11.11
	Open Circuit Voltage	V_{OC} [V]	50.67	50.69	50.72	50.75
	Current at MPP	I_{MPP} [A]	10.30	10.34	10.38	10.42
	Voltage at MPP	V_{MPP} [V]	42.79	42.97	43.15	43.34

[1]Measurement tolerances P_{MPP} ± 3 %; I_{SC}; V_{OC} ± 5 % at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • [3]800 W/m², NMOT, spectrum AM 1.5

Qcells PERFORMANCE WARRANTY



At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 93.95% of nominal power up to 10 years. At least 84.95% of nominal power up to 30 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

*Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE

Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I_{SC}	α	[%/K]	+0.04	Temperature Coefficient of V_{OC}	β	[%/K]	−0.27
Temperature Coefficient of P_{MPP}	γ	[%/K]	−0.34	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3 °C)

■ Properties for System Design

Maximum System Voltage	V_{SYS}	[V]	1500	PV module classification	Class II
Maximum Series Fuse Rating		[A DC]	25	Fire Rating based on ANSI / UL 61730	TYPE 29*
Max. Design Load, Push / Pull[3]		[lbs/ft²]	75 (3600 Pa) / 33 (1600 Pa)	Permitted Module Temperature on Continuous Duty	−40 °F up to +185 °F (−40 °C up to +85 °C)
Max. Test Load, Push / Pull[3]		[lbs/ft²]	113 (5400 Pa) / 50 (2400 Pa)		

[3] See Installation Manual

[4] New Type is similar to Type 3 but with metallic frame

■ Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant, Quality Controlled PV - TÜV Rheinland, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells).

* Contact your Qcells Sales Representative for details regarding the module's eligibility to be Buy American Act (BAA) compliant.

Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.
Hanwha Q CELLS America Inc. 400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL hqc-inquiry@qcells.com | WEB www.qcells.com

qcells

Specifications subject to technical changes © Qcells Q.PEAK_DUO_XL-G11S.3BFG_series_585-600_QA_2023-11_Rev02.0

Login Name: LIS-JK70090
Plot Date: February 01, 2025 - 12:54 pm
File Name: P:\2025\25065\165000 Corning Veterans Hall Remod\Drawings and Models\CAD\Photo Voltaic\PV-4-2.dwg
Plotted By: John Lis-The Block

CPS

Datasheet

25 kW 208 Vac, 1000 Vdc String Inverters for North America

The 25 kW (25 kVA) CPS three-phase string inverters are designed for rooftop and carport applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 97.0% peak and 96.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 25KTL-208V product ships with the Rapid Shutdown Wire-box, fully integrated and separable with touch-safe fusing, monitoring, and AC and DC disconnect switches. The integrated PLC transmitter in the Rapid Shutdown Wire-box enables PVRSS-certified module-level rapid shutdown when used with APS RSD-S-PLC/RSD-D products. The CPS FlexOM Gateway enables monitoring, controls and remote product upgrades.

CPS SCA25KTL-DO/US-208

Key Features

- NEC 2017/2020 PVRSS-certified rapid shutdown
- NEC 2017-compliant and UL-listed arc-fault circuit protection
- UL 1741-SB and IEEE 1547-2018 certified
- 15-90° mounting orientation for low-profile roof installs
- Optional FlexOM Gateway enables remote firmware upgrades
- Integrated AC and DC disconnect switches
- 3 MPPTs with 2 inputs each for maximum flexibility
- Copper- and Aluminum-compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL 1741-SA certified to CA Rule 21, including SA8-SA18
- Separable wire-box design for fast service
- Standard 10-year warranty with extensions to 20 years
- Generous 1.8 DC/AC inverter load ratio

SCA25KTL (208V) Rapid Shutdown Wire-box

© CHINT POWER SYSTEMS AMERICA 2023/6-MKT NA

Chint Power Systems America
1380 Presidential Drive, Suite 100, Richardson, TX 75081
Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpowersystems.com

CPS

Technical Data

Model Name	CPS SCA25KTL-DO/US-208
DC Input	
Max. PV power	45 kW (17 kW per MPPT)
Max. DC input voltage	1000 Vdc
Operating DC input voltage range	200-950 Vdc
Start-up DC input voltage / power	330 V / 80 W
Number of MPP trackers	3
MPPT voltage range @ PF>0.99	480-850 Vdc
Max. PV short-circuit current (Isc x 1.25)	135 A (45 A per MPPT)
Number of DC inputs	6 Inputs, 2 per MPPT
DC disconnection type	Load-rated DC switch
DC surge protection	Type II MOV
AC Output	
Rated AC output power @ PF>0.99	25 kW
Max. AC apparent power (selectable)	25 kVA
Rated output voltage	208 Vac
Output voltage range[1]	183 - 228 Vac
Grid connection type	3Φ / PE / N (neutral optional)
Max. AC output current @ 208 Vac	69.5 A
Rated output frequency	60 Hz
Output frequency range[1]	57 - 63 Hz
Power factor	>0.99 (±0.8 adjustable)
Current THD @ rated load	<3 %
Max. fault current contribution (1 cycle RMS)	64.1 A (0.92 PU)
Max. OCPD rating	125 A
AC disconnection type	Load-break rated AC switch
AC surge protection	Type II MOV
System and Performance	
Topology	Transformerless
Max. efficiency	97.0%
CEC efficiency	96.5%
Stand-by / night consumption	<3 W
Environment	
Enclosure protection degree	NEMA Type 4X
Cooling method	Variable speed cooling fans
Operating temperature range[2]	-22°F to +140°F / - 30°C to +60°C
Non-operating temperature range[3]	No low temp minimum to +158°F / +70°C maximum
Operating humidity	0 to 100%
Operating altitude	13123 ft / 4000 m (derating from 9843 ft / 3000 m)
Audible noise	<60 dBA @ 1 m and 25°C
Display and Communication	
User interface and display	LCD+LED
Inverter monitoring	SunSpec; Modbus RS485
Site-level monitoring	CPS FlexOM Gateway (1 per 32 inverters)
Modbus data mapping	CPS
Remote diagnostics / firmware upgrade functions	Standard / (with FlexOM Gateway)
Mechanical	
Dimensions (H x W x D)	39.4 x 23.6 x 10.2 in (1000 x 600 x 260 mm)
Weight	Inverter: 123.5 lbs (56 kg); Wire-box: 33 lbs (15 kg)
Mounting / installation angle[4]	15 to 90 degrees from horizontal (vertical or angled)
AC termination	M8 stud type terminal block (wire range: #6 - 3/0 AWG CU/AL, lugs not supplied)
DC termination[5]	Screw clamp, neg. busbar[6] wire range: #14 - #6 AWG CU
Fused string inputs (2 per MPPT)[6]	20 A fuses provided (fuse values up to 30 A acceptable)
Safety	
Certifications and standards	UL 1741-SA/SB Ed. 3, UL 1699B, UL 1998, CSA-C22.2 NO.107.1-01, IEEE 1547-2018, FCC PART15
Selectable grid standard	IEEE 1547a-2014, IEEE 1547-2018[7], CA Rule 21, ISO-NE, HECO
Smart-grid features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAR, Freq-Watt, Volt-Watt
Warranty	
Standard	10 years
Extended terms	15 and 20 years

1) The "output voltage range" and "output frequency range" may differ according to the specific grid standard.
2) Active power derating begins at 45°C when PF=1 and MPPTxVmin, and at 50°C, when PF=1 and MPPTx700 Vdc
3) See user manual for further requirements regarding non-operating conditions.
4) Shade Cover accessory required for installation angles of 75 degrees or less.
5) RSD-wire-box only includes fuses and fuse holders on the positive polarity, compliant with NEC 2017/2020 Section 690.9(C).
6) Fuse values above 20 A have additional spacing requirements or require the use of the Y-Comb Terminal Block. See user manual for further details.
7) Firmware version 4.0 or later required.

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LICENSE STAMPS

REGISTERED PROFESSIONAL ENGINEER RAYMOND W. SWANSON No. E15610 12/31/2025 ELECTRICAL STATE OF CALIFORNIA

PROJECT NAME

TEHAMA COUNTY
CORNING
VETERAN'S HALL

1639 SOLANO ST.
CORNING, CA

SHEET TITLE

EQUIPMENT
DATA SHEETS

DRAWING STATUS

CONSTRUCTION
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