E. P. FOSTER LIBRARY MODERNIZATION

PROJECT NO: P6T24008
SPEC NO: CP26-12

GENERAL NOTES

1. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS. REVIEW BUILDING LAYOUT WITH ARCHITECT BEFORE STARTING ANY FOOTING EXCAVATION OR FOUNDATION WORK.

3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL SITE CONDITIONS REGARDLESS OF INFORMATION SHOWN ON THE DRAWINGS. DISCREPANCIES BETWEEN CONDITIONS SHOWN OR NOT SHOWN ON DRAWINGS AND ACTUAL EXISTING VISIBLE, DISCERNABLE CONDITIONS AT THE JOB SITE, DO NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT IN FULL CONFORMANCE WITH THE CONTRACT DOCUMENTS.

4. IT SHALL BE THE RESPONSIBILTY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.

5. BIDDERS MUST VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A PROJECT COMPLETE IN EVERY DETAIL AND READY FOR OCCUPANCY. DISCREPANCIES OR DELETIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE THE BID DATE FOR CORRECTION.

6. ANY DAMAGE DONE TO THE EXISTING SITE OR FACILITIES DURING THE COURSE OF THE WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.

7. BIDDERS SHALL ASSUME THAT ALL ITEMS INDICATED ON THE DRAWINGS ARE NEW CONSTRUCTION IF NOT INDICATED WITH AN (N) OR "NEW", UNLESS INDICATED AS "(E)" OR "EXISTING".

8. ALL NEW WORK SHALL MATCH EXISTING IN KEEPING WITH GOOD CONSTRUCTION PRACTICE. IT IS THE INTENT OF THESE DOCUMENTS THAT THE PORTION OF THE SURFACE WHICH HAS BEEN INSTALLED, REPAIRED OR REPLACED, SHALL MATCH THE EXISTING ADJACENT SURFACES, AND THAT THE NEW WORK WILL NOT BE DISCERNABLE FROM THE EXISTING.

GENERAL REQUIREMENTS

1. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CHANGE ORDERS APPROVED BY THE COUNTY OF VENTURA BULDING AND SAFETY, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

APPLICABLE CODES & STANDARDS

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

PART 1 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), TITLE 24 C.C.R.

PART 2 2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R.

PART 3 2022 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R.

PART 4 2022 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R.

PART 5 2022 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R.

PART 6 2022 CALIFORNIA ENERGY CODE, TITLE 24 C.C.R.

PART 8 2022 CALIFORNIA HISTORICAL BUILDING CODE, TITLE 24 C.C.R.

PART 9 2022 CALIFORNIA FIRE CODE (CFC), TITLE 24, C.C.R.

PART 10 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), TITLE 24, C.C.R.

PART 11 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), TITLE 24, C.C.R.

PART 12 2022 CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24, C.C.R.

PART 13 2022 VENTURA COUNTY BUILDING CODE

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 17	RY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA. AMENDED)	2022 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2022 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2015 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010) EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	SIGNALING DEVICES FOR THE HEARING IMPAIRED	EDITION 3, 2018R

NATIONAL REFERENCE STANDARDS:

AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 341-16)

AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-16)

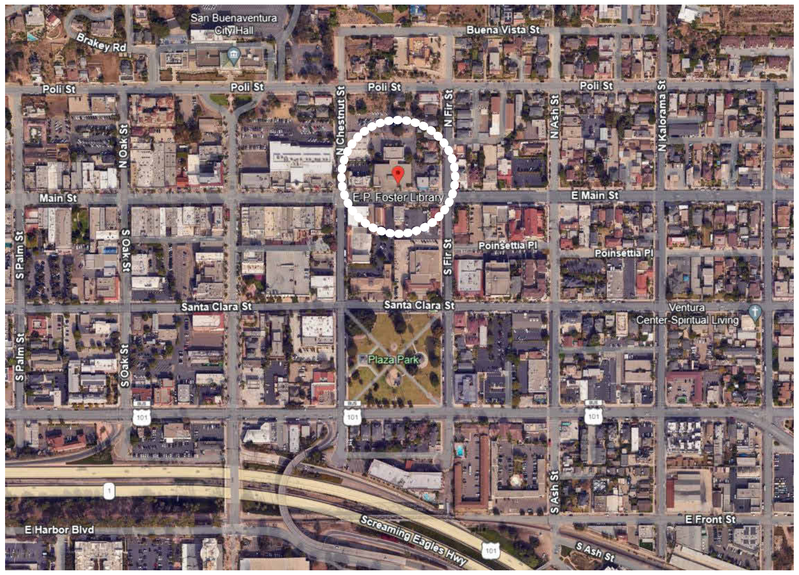
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS 2018)

BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI-318-19)

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

STATE BUILDING CODE

(PART 1, TITLE 24, C.C.R.)
"THE INTENT OF THESE DRAWINGS AND SPECIFICATION IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK"



VICINITY MAP

NO SCALE

PROJECT DATA

APN: 073004308
PROJECT ADDRESS: 651 E MAIN ST, VENTURA, CA 93001
PROPERTY OWNER: CITY OF VENTURA
LONG TERM LEASE: COUNTY OF VENTURA
FIRE DISTRICT: CITY OF VENTURA
HIGH FIRE AREA: YES
NO. OF STORIES: 2
SPRINKLERS: NONE EXISTING
PRIVATE SEWER: NO

AREA OF REMODEL: 16,428 SQ. FT. (FIRST FLOOR) + 12,863 SQ. FT. (SECOND FLOOR)
OCCUPANCY: A-3
CONSTRUCTION TYPE: III-A

PARKING SUMMARY
22 STANDARD PARKING SPACES
1 ACCESSIBLE PARKING SPACES
1 VAN ACCESSIBLE PARKING SPACES
NO PROPOSED CHANGE TO THE NUMBER OF EXISTING PARKING SPACES

SCOPE OF WORK

- HVAC REPLACEMENT INCLUDING NEW ELECTRICAL SERVICE SCE TRANSFORMER AND MAIN SWITCHBOARD @ EXTERIOR AND STRUCTURAL IMPROVEMENTS

- ELEVATOR MODERNIZATION
(CAB AND HYDRAULIC SYSTEM REPLACEMENT)

- 1ST FLOOR RESTROOM RECONFIGURATION TO MULTI-USER

- 1ST FLOOR COPIER RECONFIGURATION TO (3) STUDY ROOMS

- NEW ALL-GENDER RESTROOM NEXT TO TOPPING ROOM

- 2ND FLOOR RESTROOM UPGRADE (FINISHES & FIXTURES)

- 2ND FLOOR STAFF LOUNGE UPGRADE

- WINDOW/STOREFRONT REPLACEMENT (ALL EXTERIOR)

- FLOORING REPLACEMENT (1ST & 2ND FLOOR)

- INTERIOR AND EXTERIOR WALL REPAINT & CAULKING (1ST & 2ND FLOOR)

- RE-ROOF BUILDING (NOT INCL. NORTH BUILDING)

- 1ST FLOOR FRIENDS OF THE LIBRARY RECONFURATION

- WATER SERVICE REPLACEMENT

- LIGHTING REPLACEMENT TO LED

- ROOF DIAPHRAGM STRENGTHENING

- ROOF FRAMING IMPROVEMENTS FOR NEW HVAC

DEFERRED APPROVAL

- FIRE ALARM REPLACEMENT

- ROOFTOP HVAC ENCLOSURE

PROJECT TEAM

ARCHITECT
KRUGER BENSEN ZIEMER ARCHITECTS, INC
199 FIGUEROA ST, SUITE 100A
VENTURA, CA 93001
(805) 963-1726
WWW.KBZARCH.COM

PRINCIPAL IN CHARGE: TODD A JESPERSEN, AIA
EMAIL: toddj@kbzarch.com

PROJECT MANAGER: JONATHAN D LEE, AIA
EMAIL: jonathanl@kbzarch.com

STRUCTURAL
STORK, WOLFE & ASSOCIATES
555 CHORRO ST, SUITE A1
SAN LUIS OBISPO, CA 93405
(805) 548-8600

STRUCTURAL ENGINEER: GREGORY H STORK, SE
EMAIL: greg@swa-engineers.com

MECHANICAL/PLUMBING
AE GROUP MECHANICAL ENGINEERS, INC
838 E FRONT ST
VENTURA, CA 93001
(805) 653-1722

MECHANICAL ENGINEER: HUGH McTERNAN
EMAIL: hugh@aegroupme.com

ELECTRICAL
C. HOOD & ASSOCIATES, INC
858 E FRONT ST
VENTURA, CA 93001
(805) 641-4012

ELECTRICAL ENGINEER: CRAIG HOOD, PE
EMAIL: craig@choodassociates.com

COST ESTIMATOR
JACOBUS & YUANG, INC.
330 N LANTANA ST, SUITE 28, #220
CAMARILLO, CA 93010
(213) 688-1341

QUANTITY SURVEYOR: COBUS MALAN
EMAIL: cobusm@yiestimate.com

CONTRACTOR RESPONSIBILITIES

1. THE CONTRACTOR SHALL CAREFULLY REMOVE THE LIBRARY COLLECTION PHYSICAL MATERIALS (BOOKS, JOURNALS, NEWSPAPERS, MAPS, ETC.), PLACE IN BOXES SORTED BY NUMBER AS DIRECTED BY THE AGENCY, CLEARLY LABEL EACH BOX, AND TEMPORARILY RELOCATE AS REQUIRED TO COMPLETE THE WORK. LIBRARY COLLECTION PHYSICAL MATERIALS SHALL BE STORED IN A SECURE, DRY, CLIMATE-CONTROLLED ENVIRONMENT.

2. ALL LIBRARY TECH EQUIPMENT (COMPUTERS, SERVERS, AND PERIPHERALS LIKE KEYBOARDS, MONITORS, PRINTERS, ETC.), AND OTHER ELECTRONIC DEVICES ON THE FIRST AND SECOND FLOORS SHALL BE CAREFULLY REMOVED, PROTECTED, AND TEMPORARILY RELOCATED AS REQUIRED TO COMPLETE THE WORK.

3. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL LIBRARY FURNITURE AND TEMPORARILY RELOCATE AS REQUIRED TO COMPLETE THE WORK.

4. ALL LIBRARY STACKS ON THE FIRST AND SECOND FLOORS SHALL BE CAREFULLY REMOVED, PROTECTED, AND TEMPORARILY RELOCATED AS REQUIRED TO COMPLETE THE WORK.

5. BEFORE FINAL COMPLETION OF PROJECT, THE CONTRACTOR SHALL RETURN ALL FURNITURE, STACKS, TECH EQUIPMENT, AND LIBRARY COLLECTION PHYSICAL MATERIALS TO THEIR ORIGINAL LOCATIONS IN AN ORDERLY MANNER.

6. ANY ITEMS DAMAGED DURING REMOVAL OR RETURN SHALL BE REPLACED IN KIND BY CONTRACTOR.

SHEET INDEX

TOTAL SHEETS: 113

COUNTY of VENTURA Library

PUBLIC VENTURA COUNTY WORKS

ENGINEERING SERVICES

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
199 FIGUEROA STREET, SUITE 100A
VENTURA, CA 93001
TELEPHONE (805) 963-1726

TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Ren. 06/30/2027 STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		
2		

LIBRARY DIRECTOR
Nancy Schram

DIRECTOR OF PUBLIC WORKS

DEPUTY DIRECTOR OF PUBLIC WORKS

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCIPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA
ARCHITECT'S JOB NO 24004	DATE 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

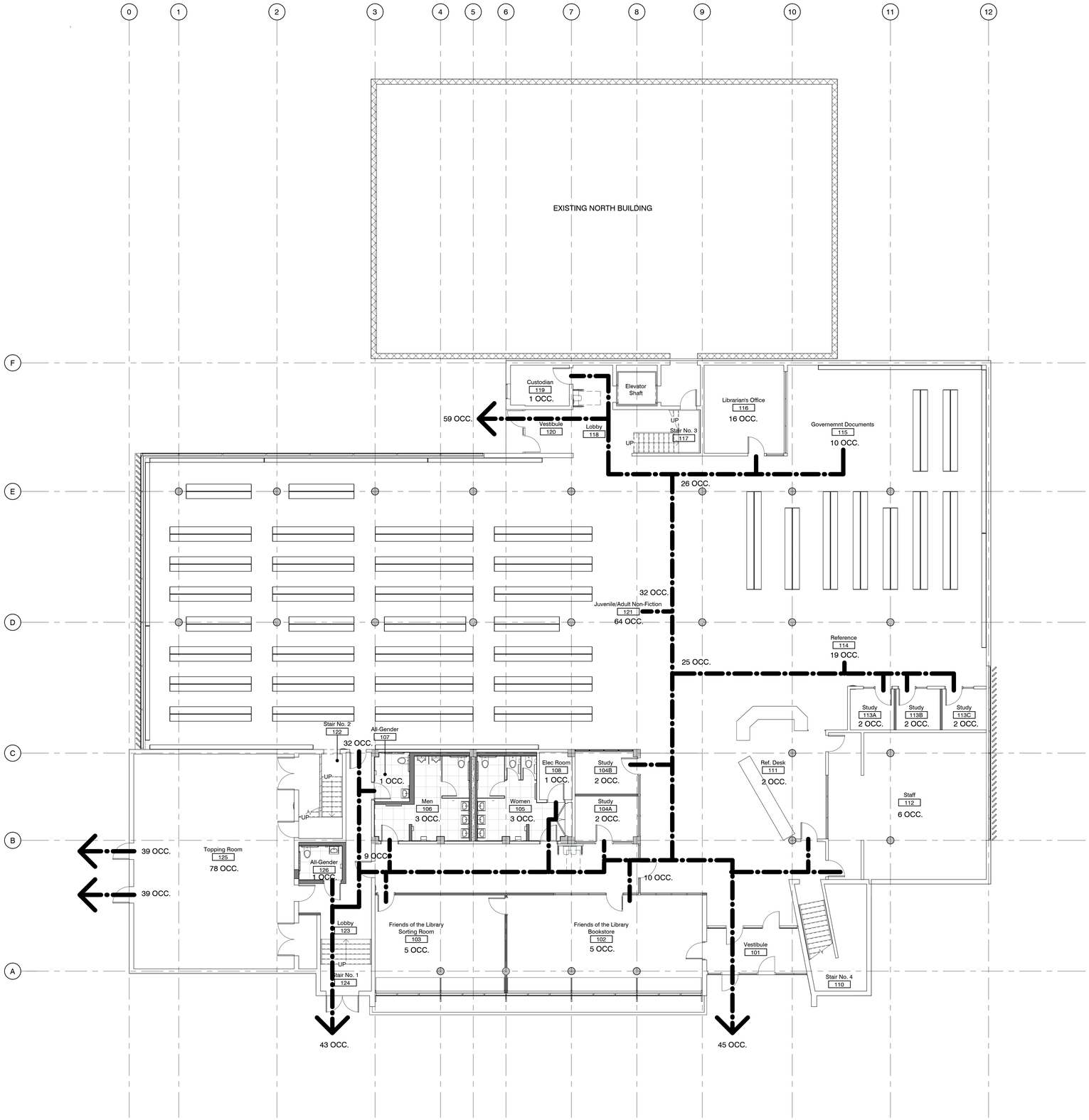
COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET OF

SHEET TITLE
TITLE SHEET

SHEET NO
G-001



1 Code Analysis - First Floor

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

CODE ANALYSIS

MEANS OF EGRESS
PER 2022 CBC TABLE 1004.1.5 MAX. FLOOR AREA ALLOWANCES PER OCCUPANT

FOL Bookstore (102) = 623 SQ. FT. / 150 GROSS = 5 OCCUPANTS

FOL SORTING ROOM (103) = 414 SQ. FT. / 100 GROSS = 5 OCCUPANTS

STUDY (104A) = 94 SQ. FT. / 50 NET = 2 OCCUPANTS

STUDY (104B) = 87 SQ. FT. / 50 NET = 2 OCCUPANTS

WOMEN (105) = 3 OCCUPANTS

MEN (106) = 3 OCCUPATNS

ALL-GENDER (107) = 1 OCCUPANT

ELECTRICAL (108) = 50 SQ. FT. / 300 GROSS = 1 OCCUPANT

REFERENCE DESK (111) = 300 SQ. FT. / 150 GROSS = 2 OCCUPANTS

STAFF (112) = 770 SQ. FT. / 150 GROSS = 6 OCCUPANTS

STUDY (113A) = 60 SQ. FT. / 50 NET = 2 OCCUPANTS

STUDY (113B) = 60 SQ. FT. / 50 NET = 2 OCCUAPNTS

STUDY (113C) = 60 SQ. FT. / 50 NET = 2 OCCUPANTS

REFERENCE (114) = 1850 SQ. FT. / 100 GROSS = 19 OCCUPANTS

GOVERNMENT DOCUMENTS (115) = 945 SQ. FT. / 100 GROSS = 10 OCCUPANTS

CONFERENCE ROOM (116) = 240 SQ. FT. / 15 NET = 16 OCCUPANTS

CUSTODAIN (119) = 80 SQ. FT. / 300 GROSS = 1 OCCUPANT

JUVENILE/ADULT NON-FICTION (121) = 6,330 SQ. FT. / 100 GROSS = 64 OCCUPANTS

TOPPING ROOM (125) = 1160 SQ. FT. / 15 NET = 78 OCCUPANTS

ALL-GENDER (126) = 1 OCCUPANT

TOTAL OCCUPANT LOAD OF FIRST FLOOR = 225 OCCUPANTS

MINIMUM NUMBER OF EXITS REQUIRED = 2

NUMBER OF EXITS PROVIDED = 6

COUNTY of VENTURA
Library

PUBLIC WORKS
VENTURA COUNTY
ENGINEERING SERVICES

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PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT
TODD A. JESPERSEN
No. C-25839
Exp. 06/30/2027
STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY: JONATHAN D LEE AIA
CHECKED BY: TODD A JESPERSEN AIA
ARCHITECTS JOB NO: 24004
DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

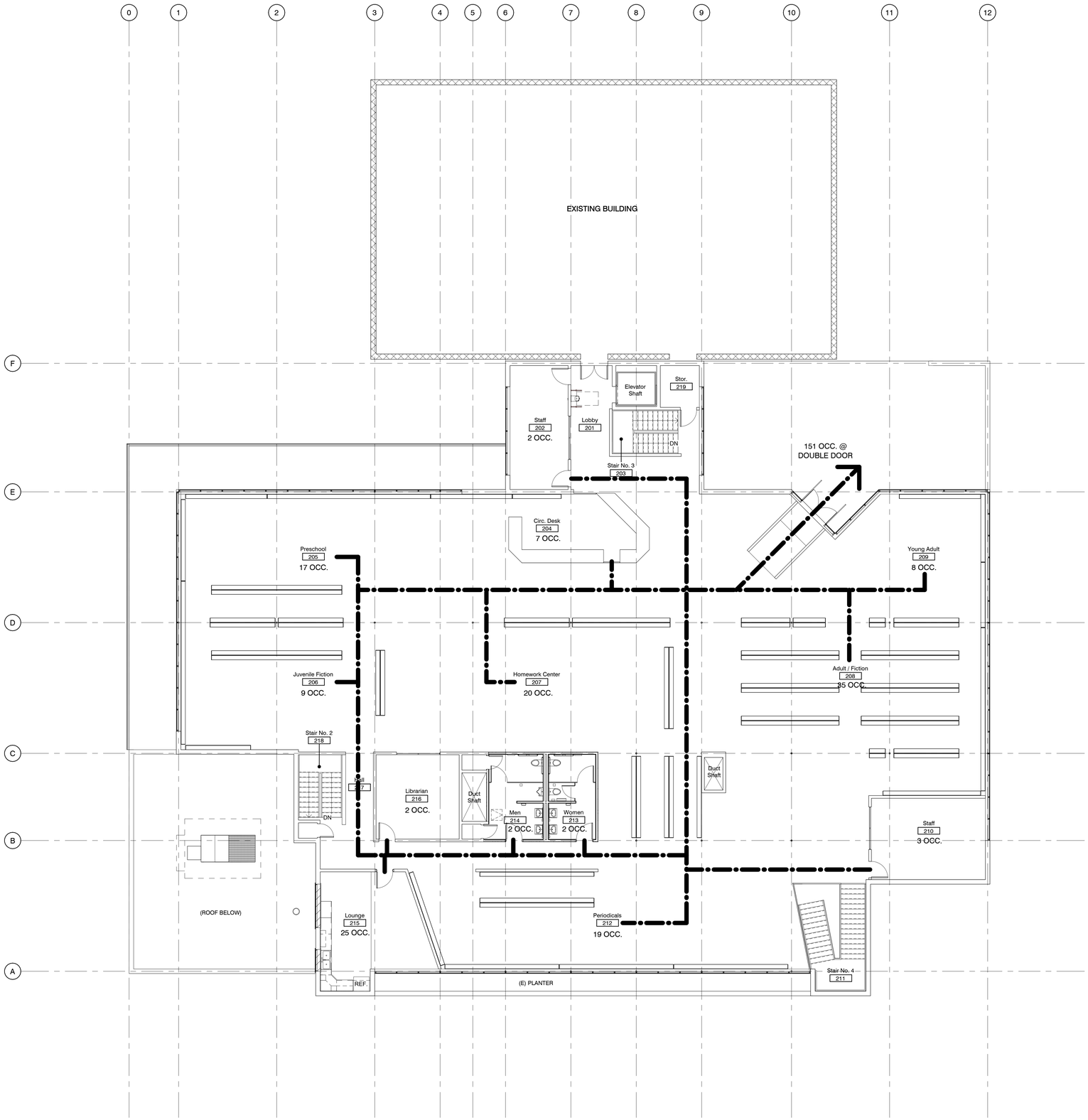
COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO
SHEET ____ OF ____

SHEET TITLE
CODE ANALYSIS - FIRST FLOOR

SHEET NO
G-002



1 Code Analysis - Second Floor
SCALE: 1/8" = 1'-0"

CODE ANALYSIS

MEANS OF EGRESS
PER 2022 CBC TABLE 1004.1.5 MAX. FLOOR AREA ALLOWANCES PER OCCUPANT

STAFF (202) = 245 SQ. FT. / 150 GROSS = 2 OCCUPANTS

CIRCULATION DESK (204) = 1,000 SQ. FT. / 150 GROSS = 7 OCCUPANTS

PRESCHOOL (205) = 850 SQ. FT. / 50 NET = 17 OCCUPANTS

JUVENILE FICTION (206) = 850 SQ. FT. / 100 GROSS = 9 OCCUPANTS

HOMEWORK CENTER (207) = 975 SQ. FT. / 50 NET = 20 OCCUPANTS

ADULT / FICTION (208) = 3,480 SQ. FT. / 100 GROSS = 35 OCCUPANTS

YOUNG ADULT (209) = 760 SQ. FT. / 100 GROSS = 8 OCCUPANTS

STAFF (210) = 315 SQ. FT. / 150 GROSS = 3 OCCUPANTS

PERIODICALS (212) = 1840 SQ. FT. / 100 GROSS = 19 OCCUPANTS

WOMEN (213) = 2 OCCUPANTS

MEN (214) = 2 OCCUPANTS

LOUNGE (215) = 370 SQ. FT. / 15 NET = 25 OCCUPANTS

LIBRARIAN (216) = 240 SQ. FT. / 150 GROSS = 2 OCCUPANTS

TOTAL OCCUPANT LOAD OF SECOND FLOOR = 151 OCCUPANTS

MINIMUM NUMBER OF EXITS REQUIRED = 2

NUMBER OF EXITS PROVIDED = 2

COUNTY of VENTURA
Library

PUBLIC
VENTURA COUNTY
WORKS

ENGINEERING SERVICES

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TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT — TODD A. JESPERSEN — No. C-25839 — Ren. 08/30/2027 — STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY JONATHAN D LEE AIA
CHECKED BY TODD A JESPERSEN AIA
ARCHITECT'S JOB NO 24004
DATE 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER CP26-12
COUNTY PROJECT NUMBER P6T24008
COUNTY DWG NO **SHEET** ____ OF ____

SHEET TITLE
CODE ANALYSIS - SECOND FLOOR

SHEET NO
G-003

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY

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.

ELECTRIC VEHICLE (EV). [BSC-CG, HCD] 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 (EV) CAPABLE SPACE. [BSC-CG, DSA-SS and HCD] A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

ELECTRIC VEHICLE (EV) CHARGER. [BSC-CG, HCD] Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). [HCD] A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE CHARGING STATION (EVCS). [BSC-CG, DSA-SS, HCD] One or more electric vehicle charging spaces served by EVSE or receptacle(s).

ELECTRIC VEHICLE (EV) READY SPACE. [HCD] A vehicle space which is provided with a branch circuit; any necessary raceways, both underground and/or surface mounted; to accommodate EV charging, terminating in a receptacle or a charger.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).[BSC-CG, DSA-SS and HCD] The conductors, including the ungrounded, grounded and equipment grounding conductors and the electric vehicle connectors, attachment plugs, personnel protection system, 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.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

5.105.2 Reuse of existing building. An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

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.

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

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.

5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 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 space 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)[1,2]**
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 percent of actual parking spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the total number of required EV capable spaces shown in column 2.
3. At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (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 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.1. 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.

5.106.5.3.2.1 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.2 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

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).

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:
1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
2. At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1. Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TABLE 5.106.5.3.6		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**MINIMUM TOTAL kVA @ 6.6 kVA**	**TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE,3,4 LOW POWER LEVEL 2, LEVEL 2, 1, 2 OR DCFC**
0-9	0	0
10-25	26.4	26.4
26-50	52.8	52.8
51-75	85.8	85.8
76-100	112.2	112.2
101-150	165	165
151-200	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.

5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG] Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
2. When a new photovoltaic system is installed covering existing parking spaces.
3. When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

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 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.
   d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG] Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 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. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

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

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(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 subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.

2. The construction documents shall indicate one or more location(s) convenient to the planned off-street 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 5.106.5.5.1.

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 equipment for medium- and heavy-duty vehicles.

4. The raceway(s) or busway(s) shall be of 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 5.106.5.5.1.

TABLE 5.106.5.5.1 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
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
Office Buildings	10,000 to 135,000	1 or 2	200
	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	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

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 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 compliance with this section has been demonstrated to be not feasible based upon one of the following conditions,and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 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 space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable 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 device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.6.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**NUMBER OF REQUIRED EV CAPABLE SPACES**	**NUMBER OF REQUIRED EVCS[2]**
0-9	0	0
10-25	4	1
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of total spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

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PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Ren. 06/30/2027 STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCIPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

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COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO	SHEET
	____ OF ____

SHEET TITLE
CALGREEN BUILDING CODE SHEET 1

SHEET NO
G-004

AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.

5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.105.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 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.

5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

TABLE 5.106.5.6.3

NUMBER OF PARKING SPACES IN A PARKING FACILITY	MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS
0-9	0
10-25	7
26-50	14
51-75	20
76-100	27
101-150	40
151-200	60
201 AND OVER	Total required KVA = P × .05 × 6.6 Where P = Parking spaces in facility

5.106.5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.

5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.

5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

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 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	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 3	N/A	U0	U0	U0	U0
For all other outdoor lighting including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING 3 (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 points(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.

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.

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 shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

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

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

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or 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 shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

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 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least 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).

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 1,000 gal/day.

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

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

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

5.303.3.2 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.

5.303.3.3 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 [rim space (inches) at 60 psi].

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

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

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

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.

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/.

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 specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building 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.

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.

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.

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

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

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

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.

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).

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

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)

SECTION 5.409 LIFE CYCLE ASSESSMENT

5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

DISCLAIMER:*THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

PUBLIC WORKS VENTURA COUNTY WORKS

ENGINEERING SERVICES

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
199 FIGUEROA STREET, SUITE 100A
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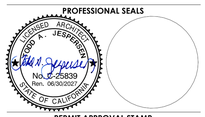
TELEPHONE (805) 963-1726

TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS



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10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO	SHEET
	OF

SHEET TITLE
CALGREEN BUILDING CODE SHEET 2

SHEET NO
G-005

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY
☐	☒	

5.409.2 Whole building life cycle assessment. Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

Notes:
1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA-Planetary (www.oneclicklca.com/planetary). Paid versions include, but are not limited to, Sphera GaBi Solutions (gabi.sphera.com), SimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

Y	N/A	RESPON. PARTY
☐	☒	

5.409.3 Product GWP compliance—prescriptive path. Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY[1]	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) ($GWP_{allowed}$)	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO_2e/MT
Hollow structural sections	3.00	MT CO_2e/MT
Steel plate	2.61	MT CO_2e/MT
Concrete reinforcing steel	1.56	MT CO_2e/MT
Flat glass	2.50	MT CO_2e/MT [4]
Light-density mineral wool board insulation	5.83	kg CO_2e/MT
Heavy-density mineral wool board insulation	14.28	kg CO_2e/MT
Concrete, Ready-Mixed[2, 3]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	450	kg CO_2e/m^3
2500–3499 psi	489	kg CO_2e/m^3
3500–4499 psi	566	kg CO_2e/m^3
4500–5499 psi	661	kg CO_2e/m^3
5500–6499 psi	701	kg CO_2e/m^3
6500 psi and greater	799	kg CO_2e/m^3
Concrete, Lightweight Ready-Mixed[2]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	875	kg CO_2e/m^3
2500–3499 psi	956	kg CO_2e/m^3
3500–4499 psi	1039	kg CO_2e/m^3

1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength.
3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category.
4. The GWP unit for flat glass has been adjusted to correct an error in the express terms. With the revised unit (MT CO2e/MT), reported GWP values will align with industry data as published in the CLF North American Material Baselines (2023).

5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5.409.3.1

$GWP_n < GWP_{allowed}$
where
$GWP_n = \Sigma\ (GWP_n)(v_n)$
and
$GWP_{allowed} = \Sigma\ (GWP_{allowed})(v_n)$
and
$_n$ = each concrete mix installed in the project
GWP_n = the GWP for concrete mix $_n$ per concrete mix EPD, in kg CO2e/m3
$GWP_{allowed}$ = the GWP potential allowed for concrete mix $_n$ per Table 5.409.3
v_n = the volume of concrete mix $_n$ installed in the project, in m3

Y	N/A	RESPON. PARTY
☐	☒	

5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

Y	N/A	RESPON. PARTY
☐	☒	

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.

Y	N/A	RESPON. PARTY
☐	☒	

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

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

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.

Y	N/A	RESPON. PARTY
☐	☒	

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.

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° 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 (10p.m. to 7 a.m.).

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

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-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, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

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

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

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

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

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

Y	N/A	RESPON. PARTY
☐	☒	

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.

SECTION 5.504 POLLUTANT CONTROL

Y	N/A	RESPON. PARTY
☒	☐	

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.

Y	N/A	RESPON. PARTY
☒	☐	

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

Y	N/A	RESPON. PARTY
☒	☐	

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[1,2]
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.

DISCLAIMER:THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

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TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

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SHEET NO
G-006

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 4 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY

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

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

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

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

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS 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

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.

Y	N/A	RESPON. PARTY
☐	☐	

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.

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

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.

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.

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.

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.

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

SECTION 5.505 INDOOR MOISTURE CONTROL

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

SECTION 5.506 INDOOR AIR QUALITY

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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).

☐	☒	

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.

Y	N/A	RESPON. PARTY

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 50 (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.

SECTION 5.508 OUTDOOR AIR QUALITY

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

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

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

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

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

Y	N/A	RESPON. PARTY

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.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Ren. 08/30/2027 STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A. JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

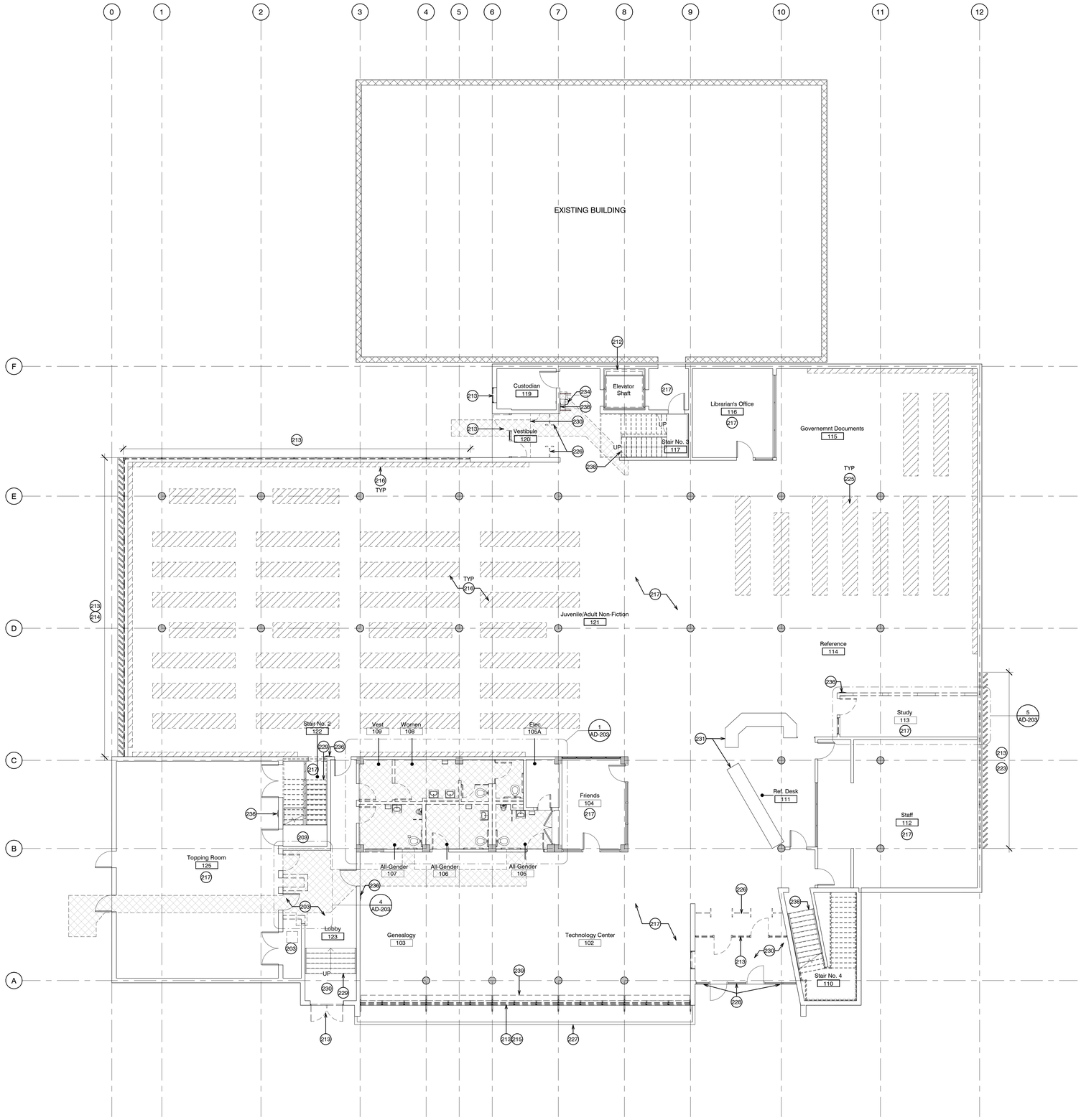
COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO	SHEET
	OF

SHEET TITLE
CALGREEN BUILDING CODE SHEET 4

SHEET NO
G-007



1 First Floor Plan - Demolition

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

DEMO KEYNOTES

203	DEMO (E) FLOOR FINISH/CARPET
212	REMOVE (E) ELEVATOR CAB, INTERIOR FINISHES, LIGHTING, AND INT./EXT. CONTROLS
213	REMOVE (E) WINDOWS AND STOREFRONT/ENTRANCES
214	CARFULLY REMOVE (E) SHADING DEVICES, REFURBISH, REFINISH, AND REINSTALL
215	REMOVE, REFINISH AND RE-INTSTALL (E) VERTICAL AND HORIZONTAL LOUVER SYSTEM
216	REMOVE (E) STACKS, STORE FOR REINSTALLATION AFTER FLOORING REPLACEMENT
217	REMOVE (E) CARPET
223	REMOVE, CLEAN, REFURBISH, AND RE-INSTALL (E) VERTICAL LOUVERS
225	---
226	DEMO (E) SECURITY DEVICES AND RAILINGS
227	(E) PLANTER TO REMAIN
228	PROTECT (E) CUSTOM ARTWORK ON GLAZING
229	REMOVE HANDRAIL, STAIR RISER, TREAD AND NOSING FINISH MATERIAL
230	(E) TERRAZZO FLOORING TO REMAIN
231	(E) BUILT-IN REFERENCE DESK TO REMAIN
234	(E) DRINKING FOUNTAIN WITH RAILS TO REMAIN
236	(E) FIRE EXINGUISHER TO REMAIN
238	PROTECT (E) HANDRAIL. REMOVE (E) STAIR RISER, TREAD AND NOSING FINISH MATERIAL
239	REMOVE (E) LITE SHELF WITH VERTICAL SUPPORT

DEMO PLAN LEGEND

DEMO (E) CONC. FLOOR SLAB PER STRUC. & PLUMB. PROTECT (E) COLUMN FOOTINGS

DEMO PLAN NOTES

1. REMOVE ALL DOOR LOCKSETS; REPLACE PER DOOR SCHEDULE.

2. REPLACE ALL (E) SIGNAGES INCLUDING ROOM SIGNAGE, EXIT SIGNAGE, ELEVATOR SIGNAGE, ACCESSIBILITY SIGNAGE, DIRECTIONAL SIGNAGE AND OCCUPANT LOAD SIGNAGE WITH (N).

CONTRACTOR NOTES

1. THE CONTRACTOR SHALL CAREFULLY REMOVE THE LIBRARY COLLECTION PHYSICAL MATERIALS (BOOKS, JOURNALS, NEWSPAPERS, MAPS, ETC.), PLACE IN BOXES SORTED BY NUMBER AS DIRECTED BY THE AGENCY, CLEARLY LABEL EACH BOX, AND TEMPORARILY RELOCATE AS REQUIRED TO COMPLETE THE WORK. LIBRARY COLLECTION PHYSICAL MATERIALS SHALL BE STORED IN A SECURE, DRY, CLIMATE-CONTROLLED ENVIRONMENT.

2. ALL LIBRARY TECH EQUIPMENT (COMPUTERS, SERVERS, AND PERIPHERALS LIKE KEYBOARDS, MONITORS, PRINTERS, ETC.), AND OTHER ELECTRONIC DEVICES ON THE FIRST AND SECOND FLOORS SHALL BE CAREFULLY REMOVED, PROTECTED, AND TEMPORARILY RELOCATED AS REQUIRED TO COMPLETE THE WORK.

3. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL LIBRARY FURNITURE AND TEMPORARILY RELOCATE AS REQUIRED TO COMPLETE THE WORK.

4. ALL LIBRARY STACKS ON THE FIRST AND SECOND FLOORS SHALL BE CAREFULLY REMOVED, PROTECTED, AND TEMPORARILY RELOCATED AS REQUIRED TO COMPLETE THE WORK.

5. BEFORE FINAL COMPLETION OF PROJECT, THE CONTRACTOR SHALL RETURN ALL FURNITURE, STACKS, TECH EQUIPMENT, AND LIBRARY COLLECTION PHYSICAL MATERIALS TO THEIR ORIGINAL LOCATIONS IN AN ORDERLY MANNER.

6. ANY ITEMS DAMAGED DURING REMOVAL OR RETURN SHALL BE REPLACED IN KIND BY CONTRACTOR.

COUNTY of VENTURA Library

PUBLIC VENTURA COUNTY WORKS

ENGINEERING SERVICES

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NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA

PRINCINPAL-IN-CHARGE: TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

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651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER: CP26-12

COUNTY PROJECT NUMBER: P6T24008

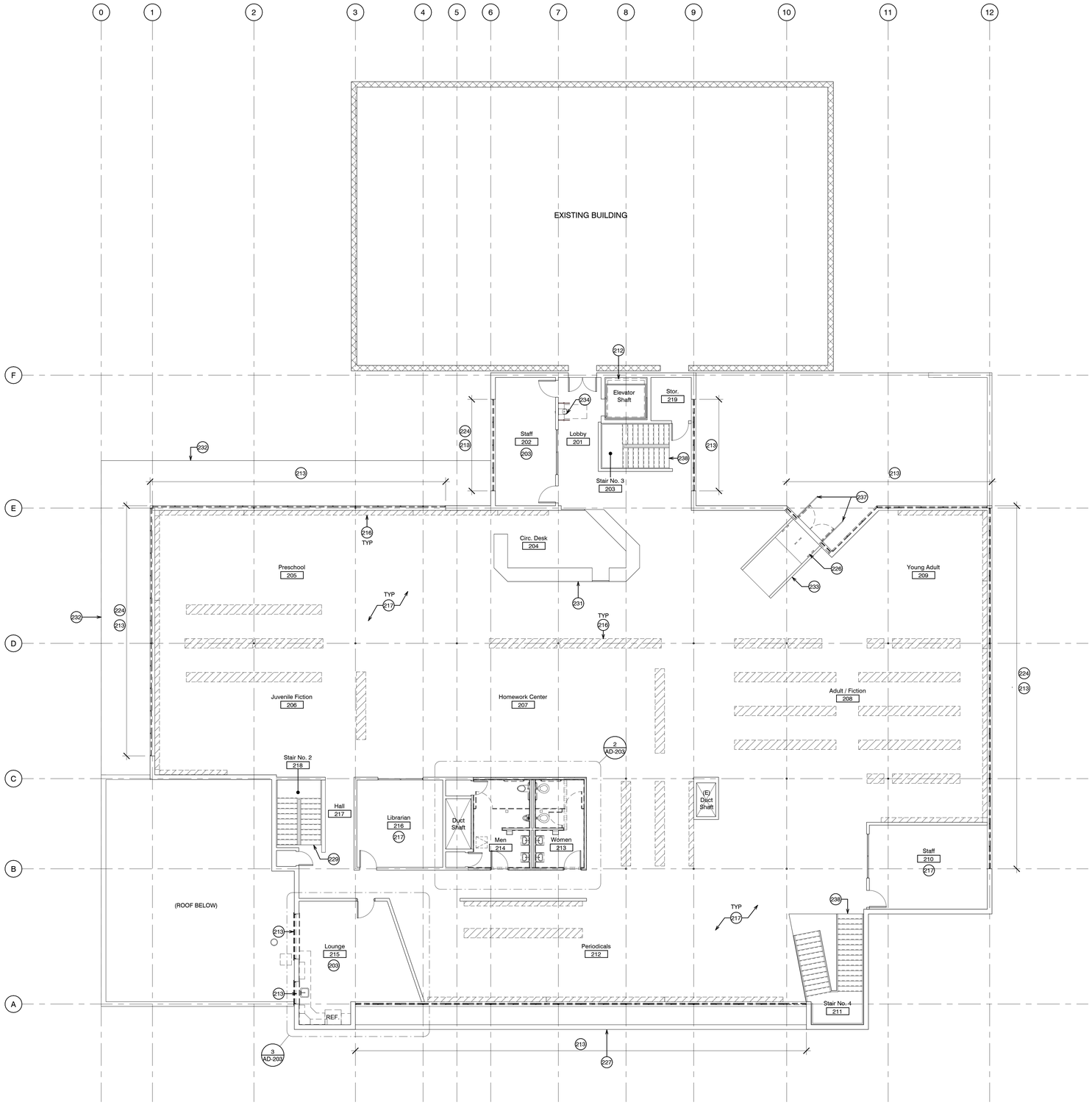
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE

DEMO FIRST FLOOR PLAN

SHEET NO

AD-201



1 Second Floor Plan - Demolition

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

N

DEMO KEYNOTES

203	DEMO (E) FLOOR FINISH/CARPET
212	REMOVE (E) ELEVATOR CAB, INTERIOR FINISHES, LIGHTING, AND INT./EXT. CONTROLS
213	REMOVE (E) WINDOWS AND STOREFRONT/ENTRANCES
216	REMOVE (E) STACKS, STORE FOR REINSTALLATION AFTER FLOORING REPLACEMENT
217	REMOVE (E) CARPET
224	REMOVE AND RE-INSTALL (E) MOTORIZED SUNSCREENS
226	DEMO (E) SECURITY DEVICES AND RAILINGS
227	(E) PLANTER TO REMAIN
229	REMOVE HANDRAIL, STAIR RISER, TREAD AND NOSING FINISH MATERIAL
231	(E) BUILT-IN REFERENCE DESK TO REMAIN
232	(E) ROOF OVERHANG BELOW
233	(E) RAMP AND CURB TO REMAIN
234	(E) DRINKING FOUNTAIN WITH RAILS TO REMAIN
237	(E) RAILS TO REMAIN
238	PROTECT (E) HANDRAIL. REMOVE (E) STAIR RISER, TREAD AND NOSING FINISH MATERIAL

DEMO PLAN NOTES

1. REMOVE ALL DOOR LOCKSETS; REPLACE PER DOOR SCHEDULE.

2. REPLACE ALL (E) SIGNAGES INCLUDING ROOM SIGNAGE, EXIT SIGNAGE, ELEVATOR SIGNAGE, ACCESSIBILITY SIGNAGE, DIRECTIONAL SIGNAGE AND OCCUPANT LOAD SIGNAGE WITH (N).

CONTRACTOR NOTES

1. THE CONTRACTOR SHALL CAREFULLY REMOVE THE LIBRARY COLLECTION PHYSICAL MATERIALS (BOOKS, JOURNALS, NEWSPAPERS, MAPS, ETC.), PLACE IN BOXES SORTED BY NUMBER AS DIRECTED BY THE AGENCY, CLEARLY LABEL EACH BOX, AND TEMPORARILY RELOCATE AS REQUIRED TO COMPLETE THE WORK. LIBRARY COLLECTION PHYSICAL MATERIALS SHALL BE STORED IN A SECURE, DRY, CLIMATE-CONTROLLED ENVIRONMENT.

2. ALL LIBRARY TECH EQUIPMENT (COMPUTERS, SERVERS, AND PERIPHERALS LIKE KEYBOARDS, MONITORS, PRINTERS, ETC.), AND OTHER ELECTRONIC DEVICES ON THE FIRST AND SECOND FLOORS SHALL BE CAREFULLY REMOVED, PROTECTED, AND TEMPORARILY RELOCATED AS REQUIRED TO COMPLETE THE WORK.

3. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL LIBRARY FURNITURE AND TEMPORARILY RELOCATE AS REQUIRED TO COMPLETE THE WORK.

4. ALL LIBRARY STACKS ON THE FIRST AND SECOND FLOORS SHALL BE CAREFULLY REMOVED, PROTECTED, AND TEMPORARILY RELOCATED AS REQUIRED TO COMPLETE THE WORK.

5. BEFORE FINAL COMPLETION OF PROJECT, THE CONTRACTOR SHALL RETURN ALL FURNITURE, STACKS, TECH EQUIPMENT, AND LIBRARY COLLECTION PHYSICAL MATERIALS TO THEIR ORIGINAL LOCATIONS IN AN ORDERLY MANNER.

6. ANY ITEMS DAMAGED DURING REMOVAL OR RETURN SHALL BE REPLACED IN KIND BY CONTRACTOR.

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PROFESSIONAL SEALS

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PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

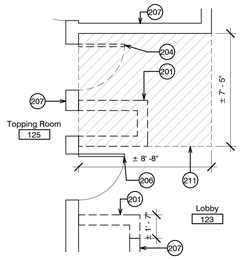
COUNTY DWG NO	SHEET
	OF

SHEET TITLE

DEMO SECOND FLOOR PLAN

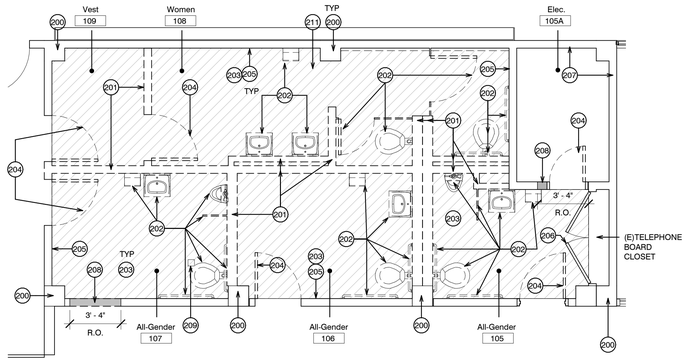
SHEET NO

AD-202



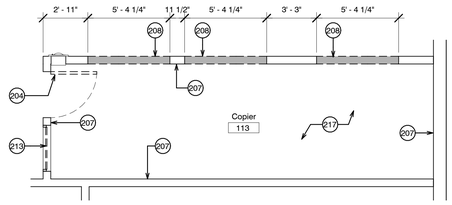
4 Enlarged 1st Floor All-Gender Restroom Plan - Demolition

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



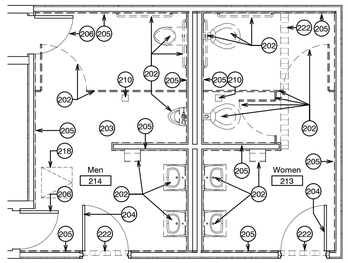
1 Enlarged 1st Floor Restroom Plan - Demolition

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



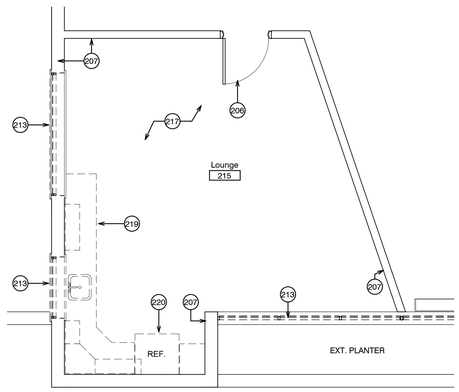
5 Enlarged 1st Floor Copier Plan - Demolition

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



2 Enlarged 2nd Floor Restroom Plan - Demolition

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



3 Enlarged 2nd Floor Lounge Plan - Demolition

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

DEMO KEYNOTES

200	PROTECT (E) COLUMN IN PLACE
201	DEMO (E) WALL
202	DEMO (E) FIXTURES AND ASSOCIATED PLUMBING WORK,TOILET PARTITION AND DOOR AND TOILET ACCESSORIES, TYP.
203	DEMO (E) FLOOR FINISH/CARPET
204	DEMO (E) DOOR, FRAME, AND HARDWARE
205	CAREFULLY DEMO (E) TILE WAINSCOT, WALL BASE AND GYP BRD OR PLASTER TO REVEAL STUDS INSIDE THE RESTROOMS, TYP
206	(E) DOOR TO REMAIN, REFINISHED PER DOOR SCHEDULE
207	(E) WALL TO REMAIN
208	CUT (E) WALL TO CREATE OPENING FOR (N) DOOR/WINDOW
209	REMOVE (E) FLOOR DRAIN AND COVER
210	(E) FLOOR DRAIN, REPLACE IN PLACE PER PLBG
211	DEMO (E) FLOOR SLAB
213	REMOVE (E) WINDOWS AND STOREFRONT/ENTRANCES
217	REMOVE (E) CARPET
218	(E) ROOF ACCESS LADDER TO REMAIN
219	DEMO (E) CABINET AND SINK
220	REMOVE (E) FRIDGE, REINTSTALL UPON COMPLETION OF NEW FINISHES
222	REMOVE (E) FLOOR MARBLE STRIP

DEMO PLAN LEGEND

DEMO (E) CONC. FLOOR SLAB PER STRUC.
PROTECT (E) COLUMN FOOTINGS

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BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
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ARCHITECT'S JOB NO	DATE
24004	07/11/2025

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E. P. FOSTER LIBRARY MODERNIZATION

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VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

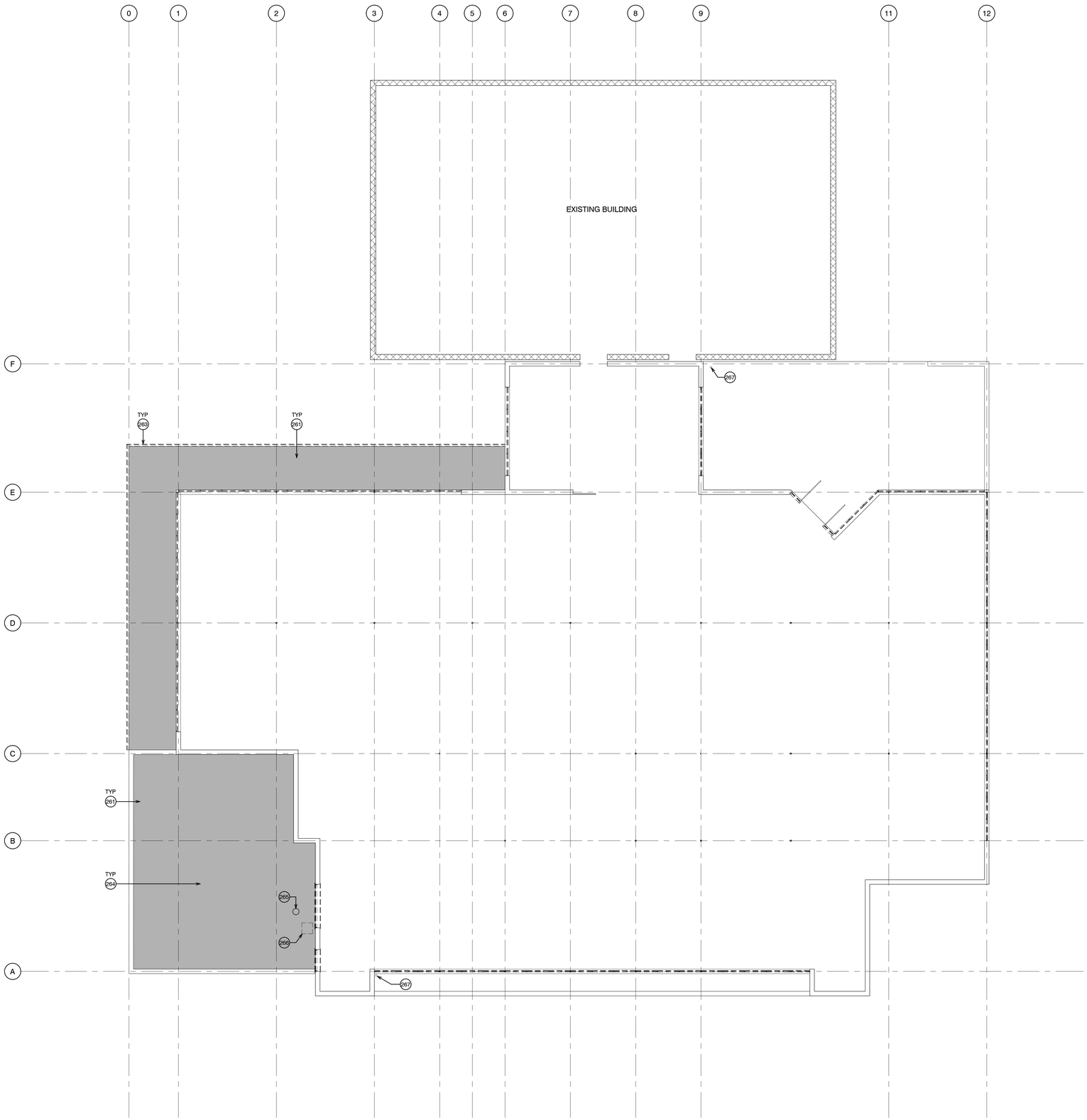
COUNTY DWG NO	SHEET OF

SHEET TITLE

DEMO ENLARGED FLOOR PLANS

SHEET NO

AD-203



1 Lower Roof Plan - Demolition
SCALE: 1/8" = 1'-0"

N

DEMO ROOF PLAN KEYNOTES

261	DEMO (E) ROOFING, EDGE METAL, GUTTER, FLASHINGS, AND ROOFING ACCESSORIES
263	REPLACE (E) GUTTER WITH (N)
264	DEMO REQUIRED FOR DUCT PENETRATION. SEE MECH. SHEETS FOR EXACT LOCATIONS
265	(E) ROOF DRAIN TO REMAIN
266	DEMO FOR (N) 2X2 ROOF HATCH
267	(E) 3" AREA DRAIN TO REMAIN

DEMO ROOF PLAN LEGEND

REMOVAL OF EXISTING ROOF SYSTEM DOWN TO ROOF DECK. REMOVAL OF ROOF SHEATING PER STRUCTURAL

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Ren. 08/30/2027
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PUBLIC WORKS PROJECT MANAGER
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JONATHAN D LEE AIA

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ARCHITECT'S JOB NO
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PROJECT TITLE AND ADDRESS

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CP26-12

COUNTY PROJECT NUMBER
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COUNTY DWG NO

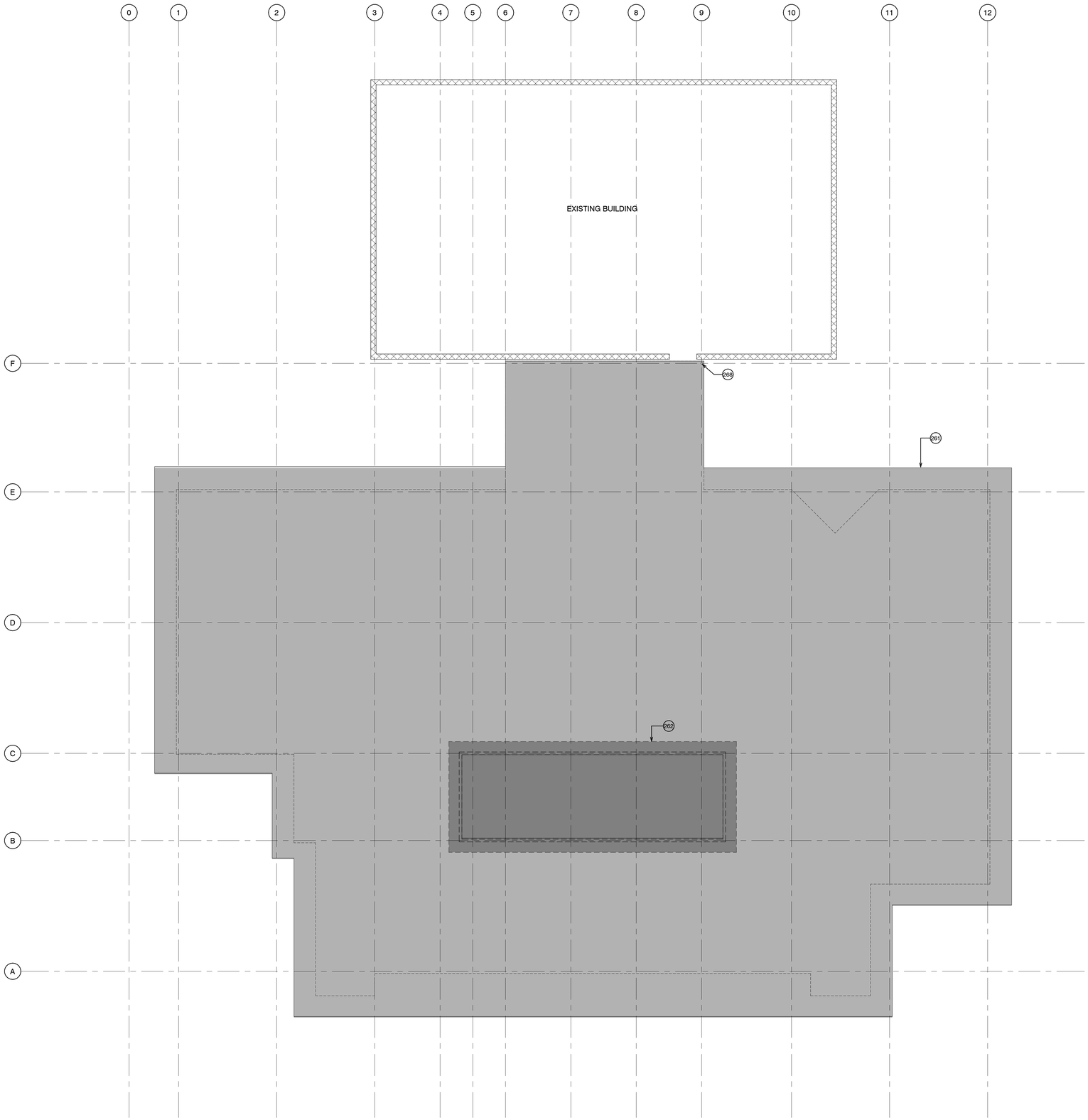
SHEET ____ OF ____

SHEET TITLE

DEMO LOWER ROOF PLAN

SHEET NO

AD-204



1 Upper Roof Plan - Demolition
SCALE: 1/8" = 1'-0"

N

DEMO ROOF PLAN KEYNOTES

261	DEMO (E) ROOFING, EDGE METAL, GUTTER, FLASHINGS, AND ROOFING ACCESSORIES
262	EXISTING MECHANICAL PENTHOUSE IS TO BE REMOVED AND ROOF DECK INFILLED AT SAME PLANE AS ADJACENT ROOF. NEW HVAC EQUIPMENT TO BE INSTALLED IN THIS LOCATION. SUNKEN FLOOR OF PENTHOUSE TO BE REMOVED PER STRUCTURAL
268	(E) 3" DOWNSPOUT ONTO LOWER ROOF

DEMO ROOF PLAN LEGEND

REMOVAL OF EXISTING ROOF SYSTEM DOWN TO ROOF DECK. REMOVAL OF ROOF SHEATING PER STRUCTURAL

REMOVAL OF EXISTING ROOF MECHANICAL PENTHOUSE. REFER TO KEYNOTE 262

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PROFESSIONAL SEALS

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PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA
PRINCINPAL-IN-CHARGE: TODD A JESPERSEN AIA
DRAWN BY: JONATHAN D LEE AIA
CHECKED BY: TODD A JESPERSEN AIA
ARCHITECT'S JOB NO: 24004
DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

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COUNTY PROJECT NUMBER: P6T24008
COUNTY DWG NO
SHEET ____ OF ____

SHEET TITLE

DEMO UPPER ROOF PLAN

SHEET NO

AD-205

1 **Demo RCP - First Floor**
SCALE: 1/8" = 1'-0"

DEMO CEILING LEGEND

- DEMO (E) RECESSED FLOURESCENT LIGHTS
- DEMO (E) SUSPENDED LIGHT
- DEMO (E) SURFACE MOUNT LIGHT
- DEMO (E) INCANDESCENT LIGHT
- DEMO (E) RECESSED LIGHT
- REMOVE AND REPLACE (E) EXIT SIGN WITH (N)
- REMOVE AND REPLACE (E) SPEAKER WITH (N)
- REMOVE AND REPLACE (E) OCCUPANCY SENSOR WITH (N)
- (E) SUSPENDED SIGN
- (E) SUSPENDED ACT 2X2
- (E) 12"X12" ACT o/ GYP BRD
- (E) 12"X24" ACT o/ GYP BRD
- (E) GYP BRD OR PLASTER SOFFIT/CEILING
- (E) CEILING ACCESS PANEL
- DEMO (E) CEILING AND INSTALL (N)
- REMOVE AND REPLACE (E) CEILING GRID AND PANELS WITH (N)
- DEMO (E) CEILING AND INSTALL (N) CEILING 6" BELOW (E) HEIGHT
- DEMO (E) HVAC GRILLE AND DIFFUSER SUPPLY

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JONATHAN D LEE AIA	TODD A JESPERSEN AIA
ARCHITECT'S JOB NO 24004	**DATE** 07/11/2025

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651 E MAIN ST,
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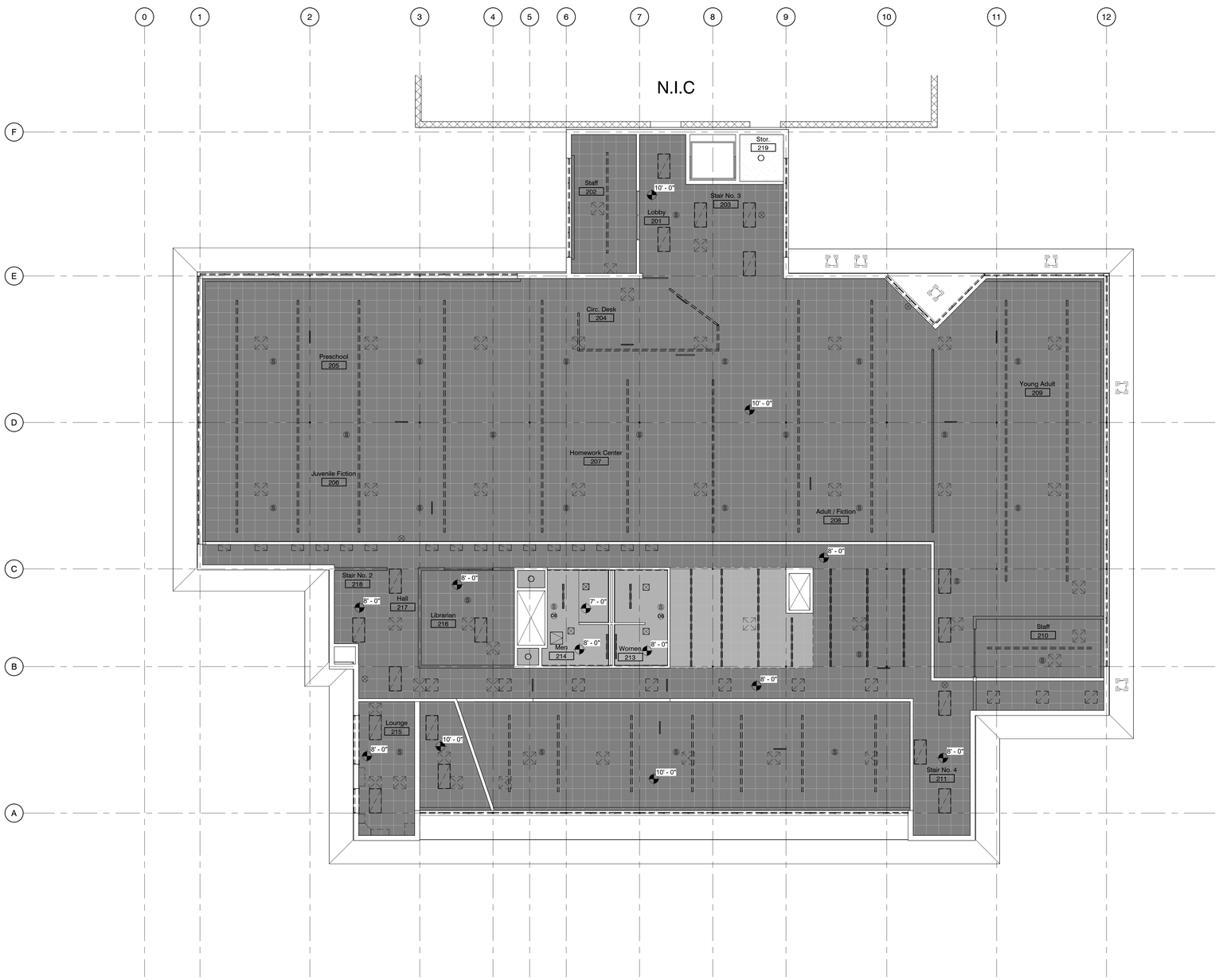
COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | **SHEET** ____ OF ____

SHEET TITLE
DEMO RCP - FIRST FLOOR

SHEET NO
AD-206



1 Demo RCP - Second Floor

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

N

DEMO CEILING LEGEND

- DEMO (E) RECESSED FLOURESCENT LIGHTS
- DEMO (E) SUSPENDED LIGHT
- DEMO (E) SURFACE MOUNT LIGHT
- DEMO (E) INCANDESCENT LIGHT
- REPLACE (E) RECESSED LIGHT WITH (N)
- REMOVE AND REPLACE (E) EXIT SIGN WITH (N)
- REMOVE AND REPLACE (E) SPEAKER WITH (N)
- REMOVE AND REPLACE (E) OCCUPANCY SENSOR WITH (N)
- (E) SUSPENDED SIGN
- (E) 1HR RATED SUSPENDED ACT 2X2
- (E) 12"X12" ACT o/ GYP BRD
- (E) GYP BRD OR PLASTER SOFFIT/CEILING
- (E) CEILING ACCESS PANEL
- DEMO (E) CEILING AND INSTALL (N)
- REMOVE AND REPLACE (E) CEILING GRID AND PANELS WITH (N)
- DEMO (E) HVAC GRILLE AND DIFFUSER SUPPLY

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651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER: CP26-12

COUNTY PROJECT NUMBER: P6T24008

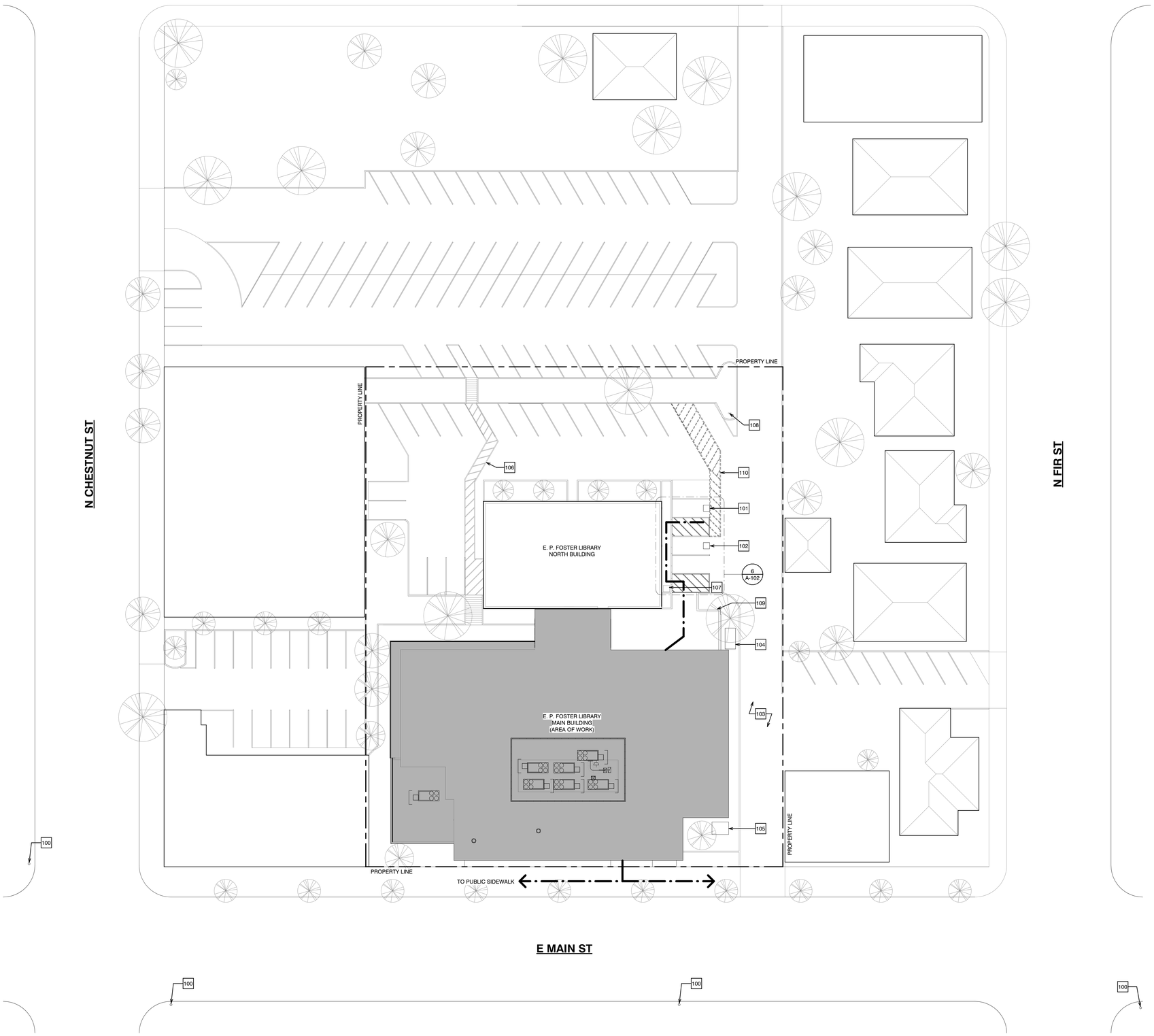
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE

DEMO RCP - SECOND FLOOR

SHEET NO

AD-207



1 Site Plan
SCALE: 1" = 20'-0"

SITE PLAN KEYNOTES

100	(E) FIRE HYDRANT
101	(E) ACCESSIBLE PARKING SPACE
102	(E) VAN ACCESSIBLE PARKING SPACE
103	(E) FIRE LANE
104	(N) PAD-MOUNTED METER/MAIN SWITCHGEAR
105	(N) PAD-MOUNTED SCE TRANSFORMER
106	(E) NON-ACCESSIBLE PAINTED PATH
107	(E) BOOK RETURN BOX
108	(E) PARKING LOT SIGNAGE
109	(N) ACCESSIBILITY SIGNAGE PER S10/A-701
110	REMOVE (E) STRIPING

SITE PLAN LEGEND

AREA OF WORK

GENERAL NOTES

1. PROTECT ALL EXISTING STRUCTURES, UTILITIES & LANDSCAPING DURING CONSTRUCTION.

2. PLANS WERE PREPARED USING AS-BUILT DRAWINGS RECEIVED FROM THE OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXISTING ACTUAL CONDITIONS PRIOR TO START OF WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

PATH OF TRAVEL

PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS IS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4"VERTICAL AND IS AT LEAST 48 INCHES WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE NOTED. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT HAS VERIFIED THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT.

PATH OF TRAVEL (POT) AS VERIFIED BY ARCHITECT IS:
· A COMMON BARRIER FREE ACCESSIBLE ROUTE AT LEAST 48" WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4"VERTICAL.
· THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH.
· PASSING SPACES AT LEAST 60" X 60" ARE LOCATED NOT MORE THAN 200' APART.
· CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART.
· CROSS-SLOPE DOES NOT EXCEED 2%.
· SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED AS A RAMP.
· MAINTAIN POT FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE.

FOR GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAYS AT PATH OF TRAVEL, GRID/OPENINGS IN GRATINGS SHALL BE LIMITED TO 1/2" MAX. IN THE DIRECTION OF TRAFFIC FLOW. IF SUCH CONDITION OCCURS, PROVIDE MANUFACTURER CUTSHEETS OF GRATE PROVIDED.

GATES AND DOORS SERVING THE MEANS OF EGRESS SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 1010. GATES USED AS A COMPONENT IN A MEANS OF EGRESS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS FOR DOORS. PROVIDE LEVER HARDWARE AND KICKPLATE. FIRE AND LIFE SAFETY MAY REQUIRE PANIC HARDWARE FOR EMERGENCY EXITING EVEN WITH THE SIGN. COORDINATE WITH FIRE AND LIFE SAFETY REQUIREMENTS. VERIFY AND ADJUST THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS TO BE 5 LBS MAXIMUM.

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON COMPLIANT
1. HAVE BEEN IDENTIFIED
2. THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

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PROFESSIONAL SEALS

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CHECKED BY TODD A. JESPERSEN AIA

ARCHITECT'S JOB NO 24004
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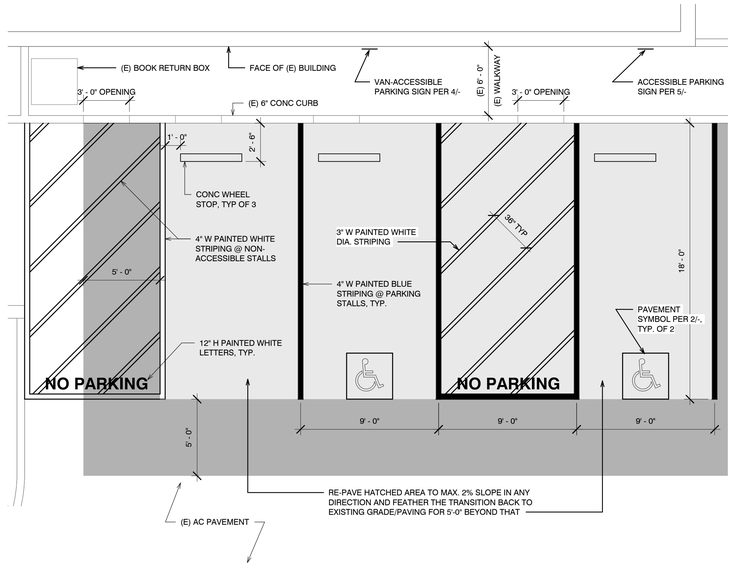
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO
SHEET ____ OF ____

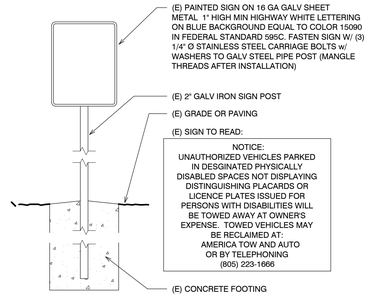
SHEET TITLE
SITE PLAN

SHEET NO
A-101



6 Accessible Parking Spaces

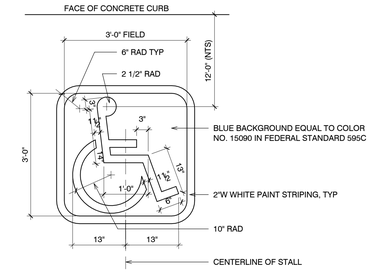
SCALE: 1/4" = 1'-0"



1 (E) Parking Lot Entrance Signage

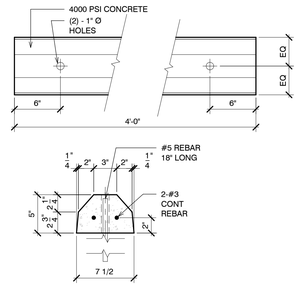
SCALE: 3/4" = 1'-0"

NOTES:
1. PROVIDE (2) COATS OF BLUE TRAFFIC PAINT
2. LOCATE SYMBOL @ CENTER OF STALL WHERE SHOWN ON SITE PLAN



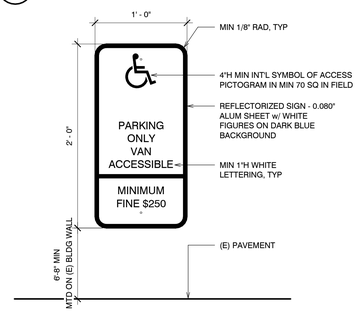
2 Pavement Symbol

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



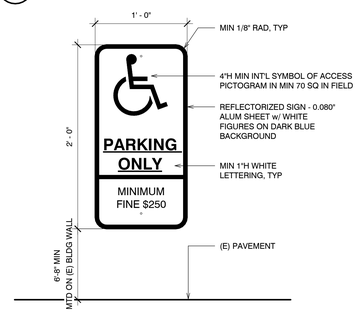
3 Wheel Stop

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



4 Van Accessible Parking Sign

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



5 Accessible Parking Sign

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

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TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Exp. 08/30/2027 STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA
PRINCINPAL-IN-CHARGE: TODD A. JESPERSEN AIA
DRAWN BY: JONATHAN D LEE AIA
CHECKED BY: TODD A JESPERSEN AIA
ARCHITECT'S JOB NO: 24004
DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

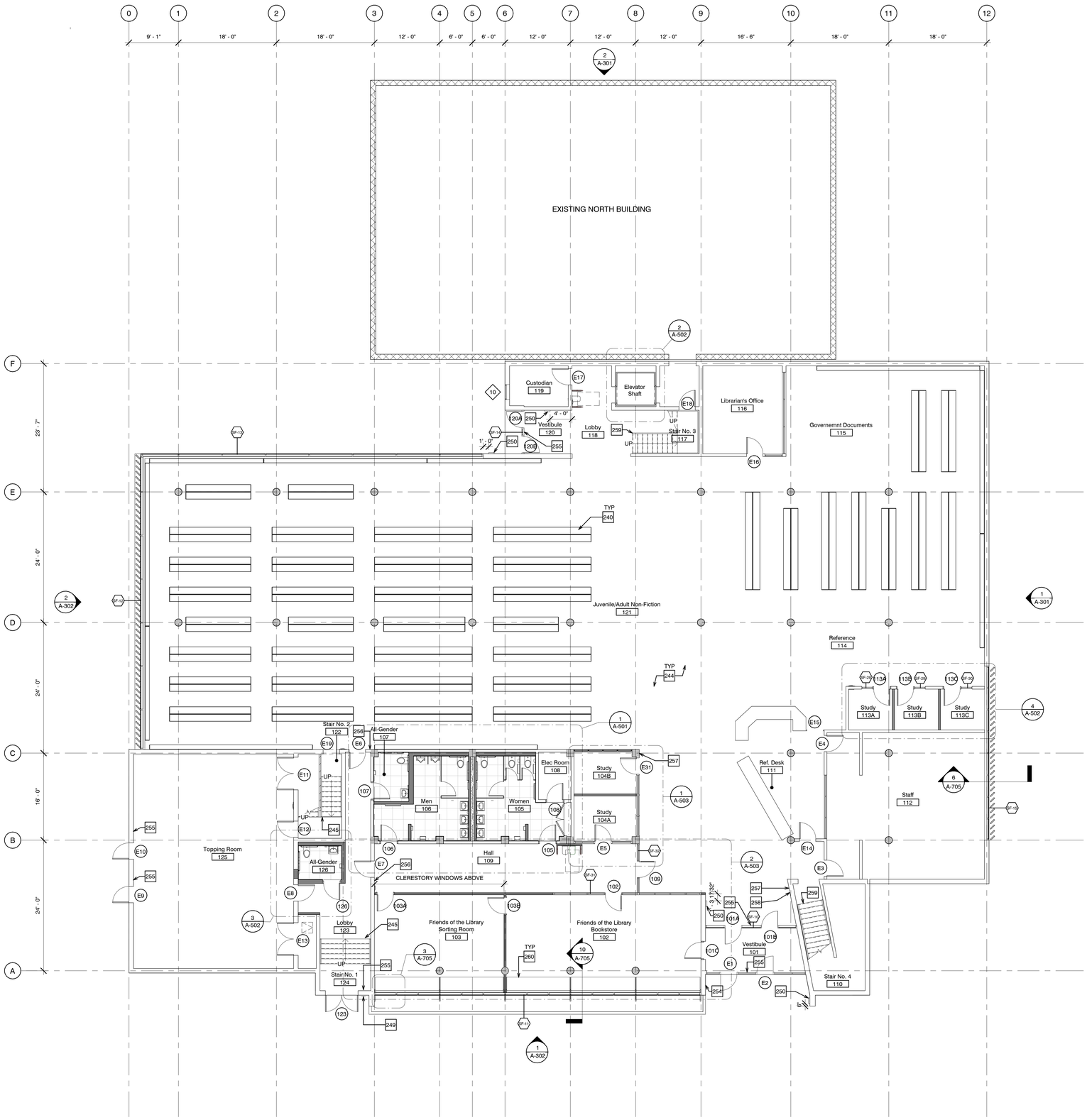
COUNTY SPEC NUMBER: CP26-12
COUNTY PROJECT NUMBER: P6T24008
COUNTY DWG NO
SHEET OF

SHEET TITLE

SITE ACCESSIBILITY DETAILS

SHEET NO

A-102



1 First Floor Plan

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

FLOOR PLAN KEYNOTES

240	REINSTALL (E) STACKS, TYP.
244	CARPET
245	HANDRAIL, STAIR RISER, TREAD AND NOSING FINISH MATERIAL. HANDRAIL DETAILS PER SHEET A-702
249	DIRECTIONAL ACCESSIBILITY SIGNAGE PER S11/A-701
250	HI-LO DOOR OPERATOR ACTIVATION PLATE. INSTALL AT MAX. REACH HEIGHT OF 48"
254	ACCESSIBILITY SIGNAGE PER S1/A-701
255	EXIT SIGNAGE PER S2/A-701
256	EMERGENCY EXIT SIGNAGE PER S8/A-701
257	ELEVATOR DIRECTIONAL SIGNAGE PER S9/A-701
258	OCCUPANT LOAD SIGNAGE PER S12/A-701
259	STAIR RISER, TREAD AND NOSING FINISH MATERIAL
260	LITE SHELF WITH VERTICAL SUPPORT

GENERAL NOTES

1. ALL DIMENSIONS ARE TO CENTERLINE OF STUDS.
2. ALL EXPOSED STEEL CONNECTIONS SHALL BE BOLTED CONNECTIONS, NO WELDING WHERE STEEL IS EXPOSED.
3. ALL FRAMING SHALL BE MTL STUDS.
4. PROTECT ALL EXISTING STRUCTURES TO REMAIN.
5. EXISTING AND NEW ROOMS TO RECEIVE NEW ROOM SIGNAGE.

LEGEND

(E) WALL

(N) WALL

(E) COLUMNS

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JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Ren. 08/30/2027 STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

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PERMIT NO BP25-02229

NO	REVISION	DATE
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PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA
ARCHITECTS JOB NO 24004	**DATE** 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
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COUNTY SPEC NUMBER CP26-12

COUNTY PROJECT NUMBER P6T24008

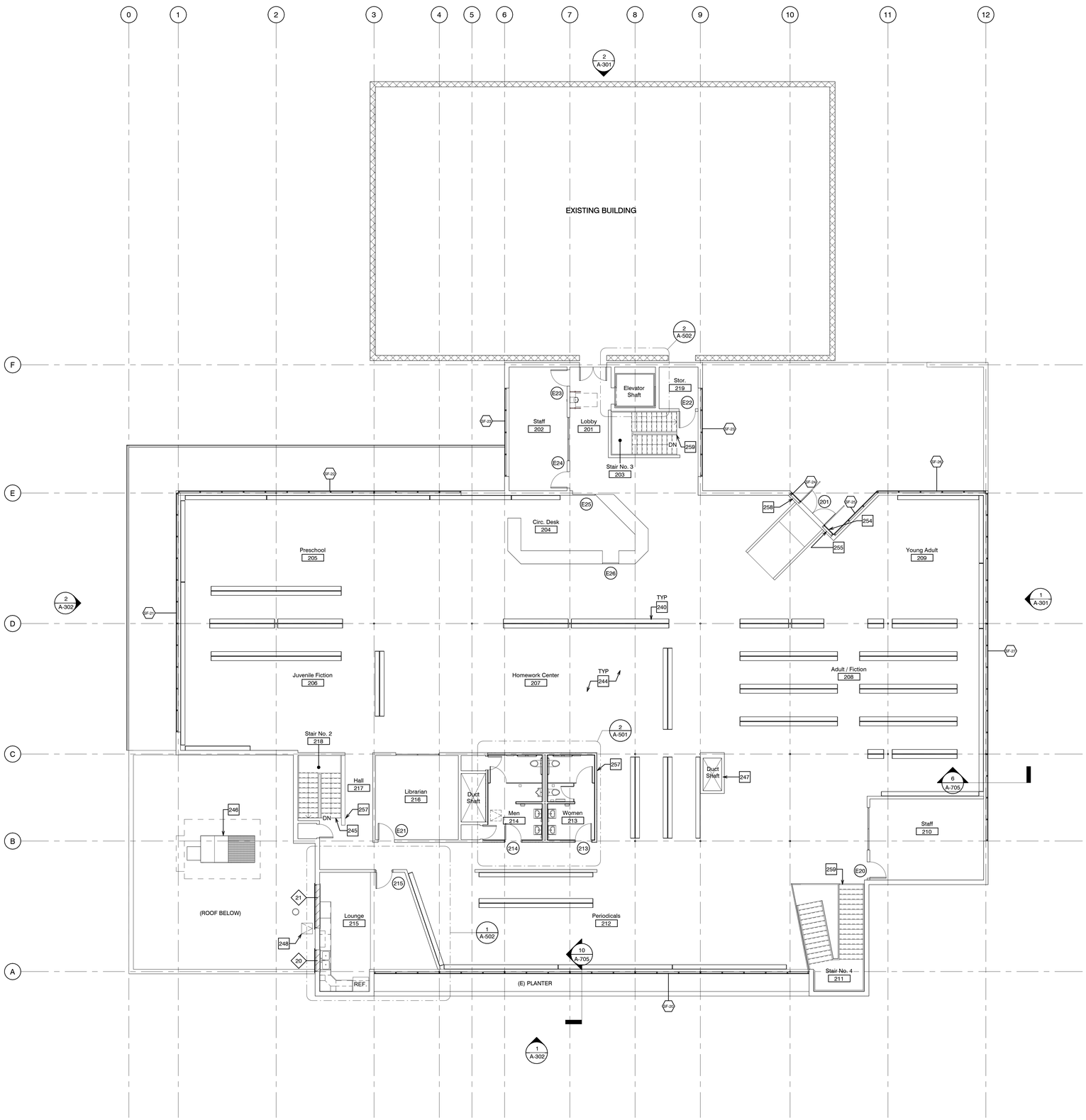
COUNTY DWG NO | **SHEET** ____ OF ____

SHEET TITLE

FIRST FLOOR PLAN

SHEET NO

A-201



1 Second Floor Plan

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

N

FLOOR PLAN KEYNOTES

240	REINSTALL (E) STACKS, TYP.
244	CARPET
245	HANDRAIL, STAIR RISER, TREAD AND NOSING FINISH MATERIAL. HANDRAIL DETAILS PER SHEET A-702
246	MECHANICAL EQUIPMENT PER MECHANICAL SHEETS
247	MECHANICAL CHASE. SEE MECH. SHEETS
248	2X2 ROOF HATCH
254	ACCESSIBILITY SIGNAGE PER S1/A-701
255	EXIT SIGNAGE PER S2/A-701
257	ELEVATOR DIRECTIONAL SIGNAGE PER S9/A-701
258	OCCUPANT LOAD SIGNAGE PER S12/A-701
259	STAIR RISER, TREAD AND NOSING FINISH MATERIAL

GENERAL NOTES

1. ALL DIMENSIONS ARE TO CENTERLINE OF STUDS.
2. ALL EXPOSED STEEL CONNECTIONS SHALL BE BOLTED CONNECTIONS, NO WELDING WHERE STEEL IS EXPOSED.
3. ALL FRAMING SHALL BE MTL STUDS.
4. PROTECT ALL EXISTING STRUCTURES TO REMAIN.
5. EXISTING AND NEW ROOMS TO RECEIVE NEW ROOM SIGNAGE.

LEGEND

(E) WALL

(N) WALL

(E) COLUMNS

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PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Ren. 08/30/2027 STATE OF CALIFORNIA

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NO	REVISION	DATE
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PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A. JESPERSEN AIA

DRAWN BY: JONATHAN D LEE AIA
CHECKED BY: TODD A JESPERSEN AIA

ARCHITECT'S JOB NO: 24004
DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

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COUNTY SPEC NUMBER: CP26-12

COUNTY PROJECT NUMBER: P6T24008

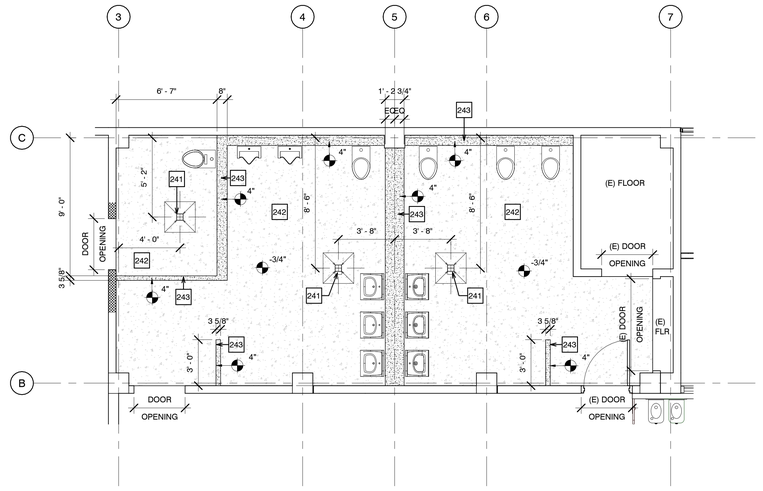
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE

SECOND FLOOR PLAN

SHEET NO

A-202



1 Enlarged 1st Floor Restroom - Curb Plan

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

FLOOR PLAN KEYNOTES

241	FLOOR DRAIN PER 7/A-703
242	5" CONC SLAB ON GRADE PER STRUCT., DEPRESSED WHERE INDICATED
243	CURB PER 2/A-703

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LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Exp. 08/30/2027 STATE OF CALIFORNIA

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PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

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COUNTY PROJECT NUMBER
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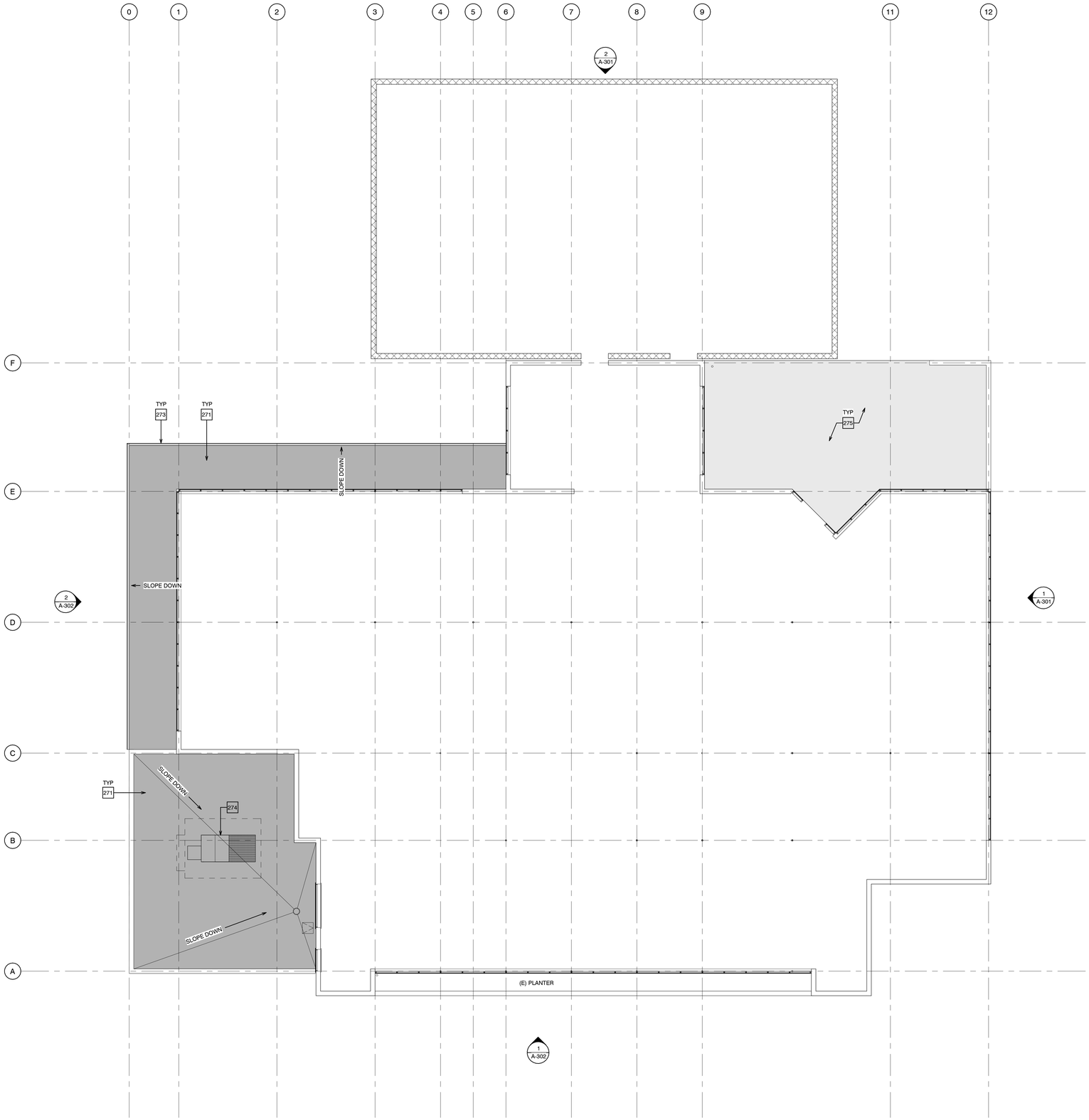
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
CURB PLAN

SHEET NO
A-203



1 Lower Roof Plan

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

ROOF PLAN KEYNOTES

271 GARLAND KEE/SBS COLD-APPLIED ROOFING SYSTEM WITH 4" POLYISOCYANURATE RIGID INSULATION, NEW 2X6 PERIMETER EDGE CLIPPED TO DECK, NEW DRIP EDGE ALL AROUND, NEW SPRING-LOK AT INTERFACE TO NORTH BUILDING

273 NEW GUTTER

274 MECHANICAL EQUIPMENT PER MECHANICAL SHEETS

275 RE-COAT EXISTING BALCONY DECK

ROOF PLAN LEGEND

(N) ROOF TO BE SLOPED 2% MIN.

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PROJECT MANAGER

PROFESSIONAL SEALS

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10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA
PRINCINPAL-IN-CHARGE: TODD A JESPERSEN AIA
DRAWN BY: JONATHAN D LEE AIA
CHECKED BY: TODD A JESPERSEN AIA
ARCHITECT'S JOB NO: 24004
DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

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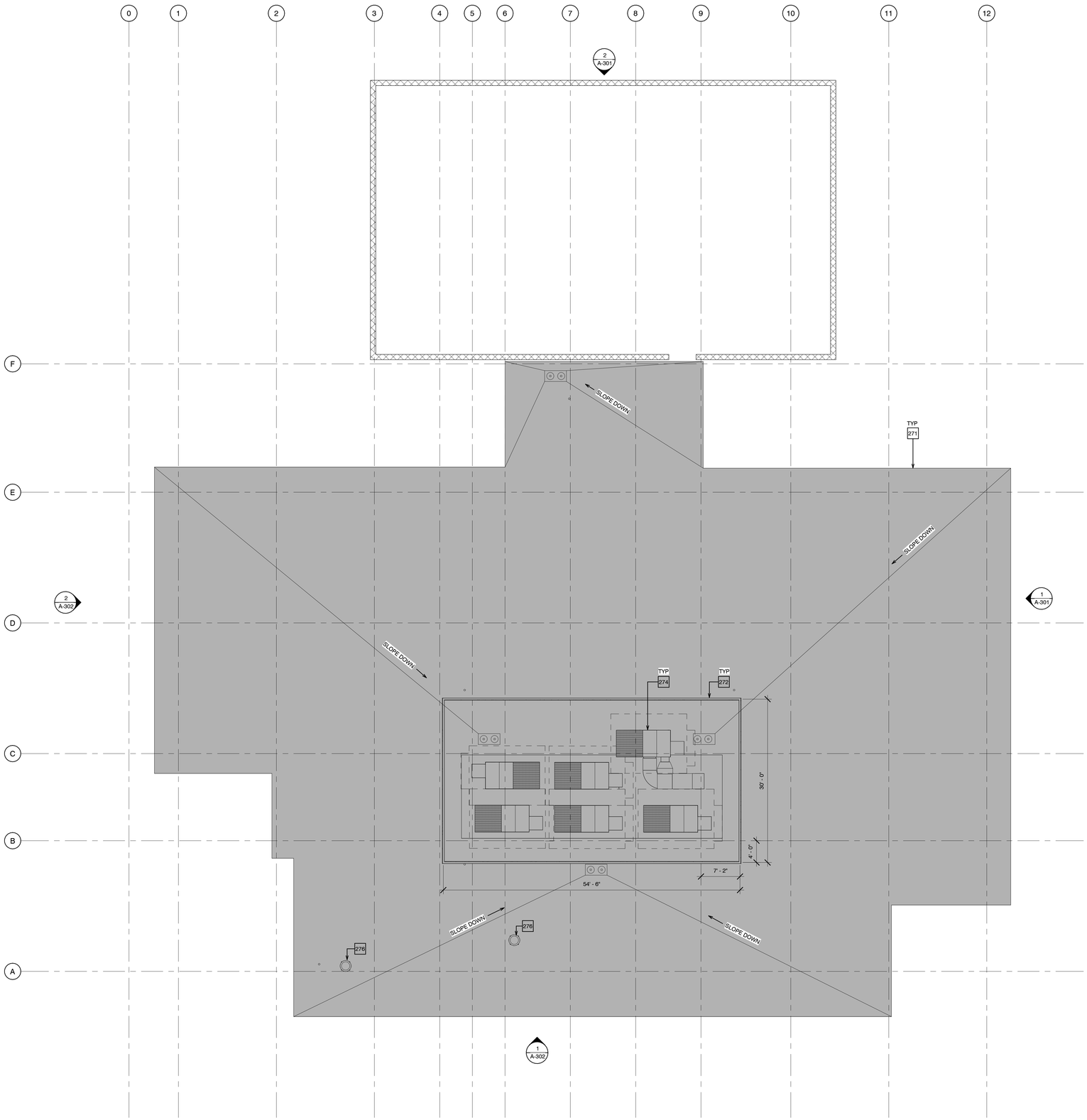
COUNTY SPEC NUMBER: CP26-12
COUNTY PROJECT NUMBER: P6T24008
COUNTY DWG NO
SHEET ____ OF ____

SHEET TITLE

LOWER ROOF PLAN

SHEET NO

A-204



1 Upper Roof Plan

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

ROOF PLAN KEYNOTES

271	GARLAND KEE/SBS COLD-APPLIED ROOFING SYSTEM WITH 4" POLYISOCYANURATE RIGID INSULATION, NEW 2X6 PERIMETER EDGE CLIPPED TO DECK, NEW DRIP EDGE ALL AROUND, NEW SPRING-LOK AT INTERFACE TO NORTH BUILDING
272	NEW ROOFTOP MECHANICAL EQUIPMENT SCREEN (DEFERRED SUBMITTAL)
274	MECHANICAL EQUIPMENT PER MECHANICAL SHEETS
276	EXHAUST FAN PER MECHANICAL SHEETS

ROOF PLAN LEGEND

(N) ROOF TO BE SLOPED 2% MIN.

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TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

TODD A. JESPERSEN No. C-25839 Ren. 08/30/2027 STATE OF CALIFORNIA

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BID SET
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PERMIT NO BP25-02229

NO	REVISION	DATE

PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA

PRINCINPAL-IN-CHARGE: TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA
ARCHITECT'S JOB NO: 24004	DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

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COUNTY SPEC NUMBER: CP26-12

COUNTY PROJECT NUMBER: P6T24008

COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE

UPPER ROOF PLAN

SHEET NO

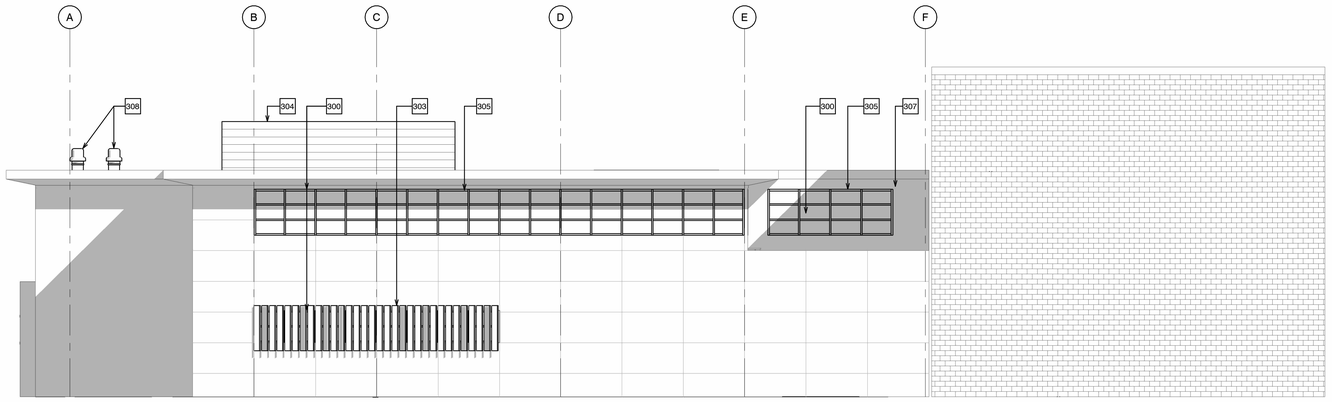
A-205

ELEVATION KEYNOTES

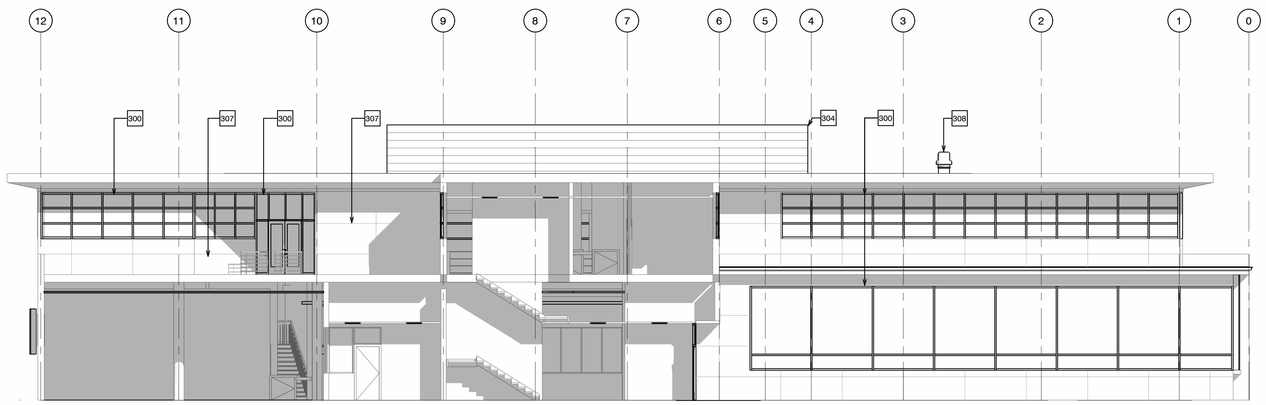
300	WINDOW/STORFRONT REPLACEMENT W/ ALL NEW ARCADIA THERMALLY BROKEN FRAMING AND DUAL LOW E-GLAZING (NO GAS INFILL)
303	REMOVE AND RE-INSTALL (E) VERTICAL LOUVERS
304	NEW ROOFTOP MECHANICAL EQUIPMENT SCREEN WALL (DEFERRED SUBMITTAL)
305	REMOVE AND RE-INSTALL (E) MOTORIZED SUNSCREEN
307	PROTECT (E) MURAL
308	NEW EXHAUST FAN PER MECHANICAL

ELEVATION NOTES

1. RE-PAINT EXTERIOR WALLS, ROOF FASCIAS & OVERHANG SOFFITS TO MATCH (E). NO PAINTING ON NORTH BUILDING.



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



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

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TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Ren. 08/30/2027 STATE OF CALIFORNIA

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10/14/2025

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PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

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VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO	SHEET
	OF

SHEET TITLE

EXTERIOR ELEVATIONS

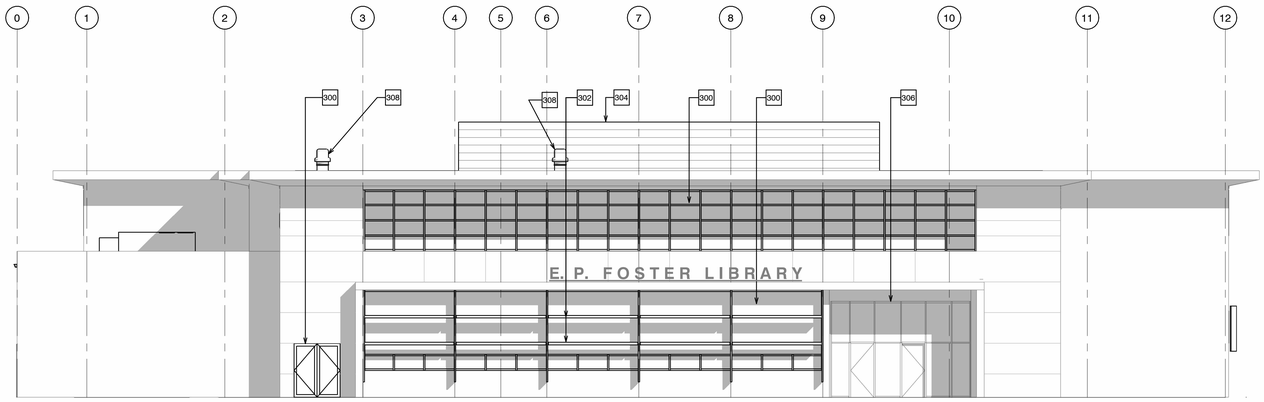
SHEET NO
A-301

ELEVATION KEYNOTES

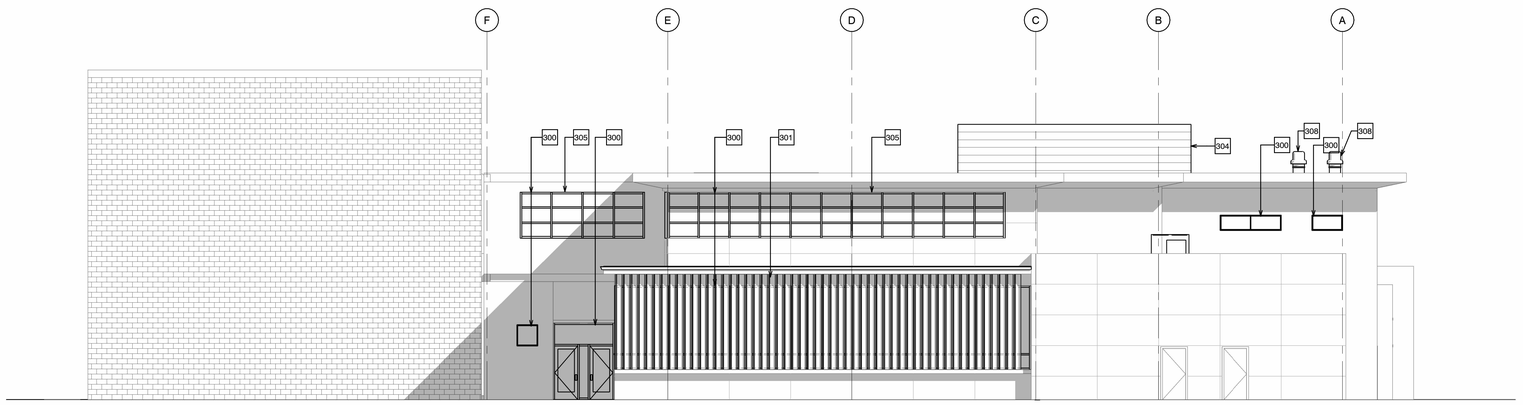
300	WINDOW/STORFRONT REPLACEMENT W/ ALL NEW ARCADIA THERMALLY BROKEN FRAMING AND DUAL LOW E-GLAZING (NO GAS INFILL)
301	REMOVE, REFINISH AND RE-INSTALL (E) VERTICAL LOUVERS
302	REMOVE, REFINISH AND RE-INSTALL (E) VERTICAL AND HORIZONTAL LOUVER SYSTEM
304	NEW ROOFTOP MECHANICAL EQUIPMENT SCREEN WALL (DEFERRED SUBMITTAL)
305	REMOVE AND RE-INSTALL (E) MOTORIZED SUNSCREEN
306	(E) STOREFRONT TO REMAIN TO PRESERVE ARTWORK
308	NEW EXHAUST FAN PER MECHANICAL

ELEVATION NOTES

1. RE-PAINT EXTERIOR WALLS, ROOF FASCIAS & OVERHANG SOFFITS TO MATCH (E). NO PAINTING ON NORTH BUILDING.



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



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

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TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

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1		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET ____ OF ____

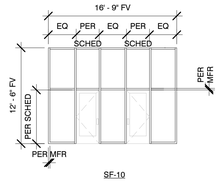
SHEET TITLE

EXTERIOR ELEVATIONS

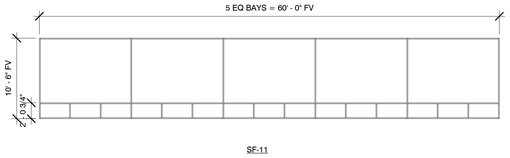
SHEET NO
A-302

DOOR SCHEDULE

MARK	W	H	TYPE	MAT'L	THICK	COLOR	LITE CUTOUTS	LVR CUTOUTS	HDWR GROUP	ASS'Y FIRE RATING	FRAME TYPE	FRAME MAT'L	FRAME FINISH	FRAME COLOR	HEAD	JAMB	SILL	REMARKS
101A	3' - 0"	7' - 0"	A	ALUM	1 3/4"		1				3	ALUM	FF		16/A-705	18/A-705	19/A-705	PH
101B	3' - 0"	7' - 0"	A	ALUM	1 3/4"		1				3	ALUM	FF		16/A-705	18/A-705	19/A-705	PH
101C	3' - 0"	7' - 0"	A	ALUM	1 3/4"		1				3	ALUM	FF		15/A-705	17/A-705	19/A-705	
102	3' - 0"	7' - 0"	A	ALUM	1 3/4"		1				3	ALUM	FF		19/A-704	13/A-704	19/A-705	
103A	3' - 0"	7' - 0"	C	WD	1 3/4"						2	HM	PT		1/A-705	1/A-705	19/A-705	
103B	3' - 0"	7' - 0"	C	WD	1 3/4"						2	HM	PT		1/A-705	1/A-705	19/A-705	
105	3' - 0"	7' - 0"	E	HM	1 3/4"						2	HM	PT		1/A-705	1/A-705	19/A-705	
106	3' - 0"	7' - 0"	E	HM	1 3/4"						2	HM	PT		1/A-705	1/A-705	19/A-705	
107	3' - 0"	7' - 0"	E	HM	1 3/4"					20 MIN. /S	2	HM	PT		1/A-705	2/A-705	19/A-705	
108	3' - 0"	7' - 0"	E	HM	1 3/4"			1			2	HM	PT		1/A-705	1/A-705	19/A-705	
109	3' - 0"	7' - 0"	A	ALUM	1 3/4"		1				3	ALUM	FF		19/A-704	13/A-704	19/A-705	
113A	3' - 0"	7' - 0"	D	WD	1 3/4"		1				3	ALUM	FF		19/A-704	13/A-704	19/A-705	INTEGRAL SIDELITE
113B	3' - 0"	7' - 0"	D	WD	1 3/4"		1				3	ALUM	FF		19/A-704	13/A-704	19/A-705	INTEGRAL SIDELITE
113C	3' - 0"	7' - 0"	D	WD	1 3/4"		1				3	ALUM	FF		19/A-704	13/A-704	19/A-705	INTEGRAL SIDELITE
120A	3' - 0"	7' - 0"	A	ALUM	1 3/4"		1				3	ALUM	FF		16/A-705	18/A-705	19/A-705	PH
120B	3' - 0"	7' - 0"	A	ALUM	1 3/4"		1				3	ALUM	FF		16/A-705	18/A-705	19/A-705	PH
123	6' - 0"	7' - 0"	B	ALUM	1 3/4"		2				1	ALUM	FF		15/A-705	17/A-705	19/A-705	PH
126	3' - 0"	7' - 0"	E	HM	1 3/4"					20 MIN. /S	2	HM	PT		1/A-705	1/A-705	19/A-705	
201	6' - 0"	7' - 0"	B	ALUM	1 3/4"		2				1	ALUM	FF					PH. (N) AUTO. OPERATOR
213	3' - 0"	7' - 0"	C	WD	1 3/4"						2	HM	PT					(E) REFURBISHED
214	3' - 0"	7' - 0"	C	WD	1 3/4"						2	HM	PT					(E) REFURBISHED
215	3' - 0"	7' - 0"	C	WD	1 3/4"						2	HM	PT					(E) REFURBISHED
E1	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E2	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E3	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E4	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E5	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E6	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E7	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E8	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E9	3' - 0"	6' - 8"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E10	3' - 0"	6' - 8"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E11	6' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E12	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E13	6' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E14	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E15	3' - 0"	3' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E16	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E17	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E18	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E19	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR OPENING
E20	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E21	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E22	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E23	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E24	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E25	3' - 0"	3' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E26	3' - 0"	3' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR
E28	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR OPENING
E29	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR OPENING
E30	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR OPENING
E31	3' - 0"	7' - 0"	(E)	(E)	2"						(E)	(E)	(E)					(E) DOOR



SF-10



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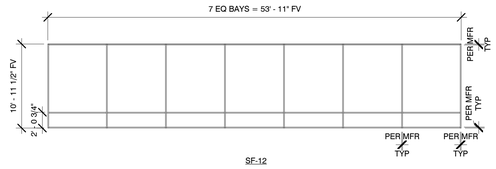

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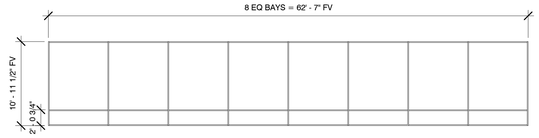
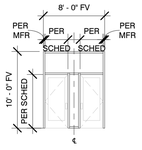


SF-13



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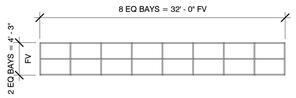
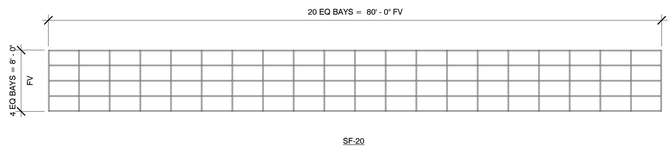


SF-15



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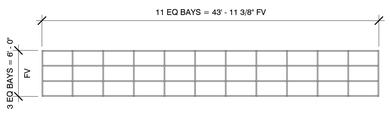

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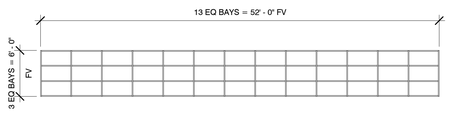

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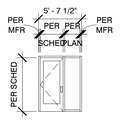
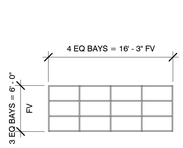


SF-28, 29 & 30



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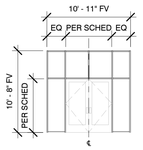

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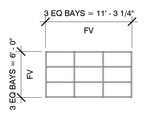

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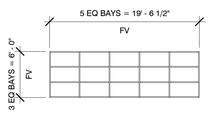
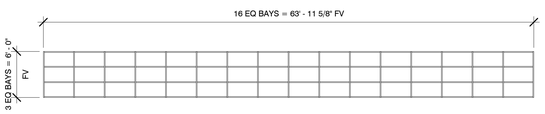


SF-26



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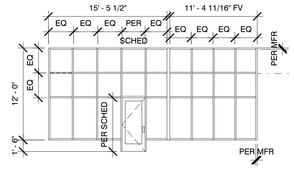

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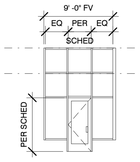
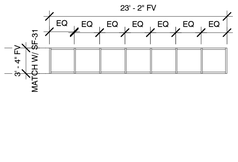
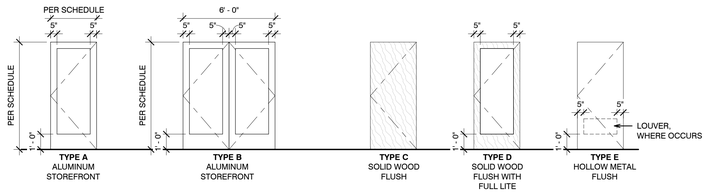


SF-32

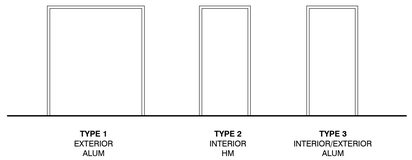


SF-33

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



2 Door Types
SCALE: 1/4" = 1'-0"



3 Door Frame Types
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE PAINT COLOR LEGEND ON A-401.
2. VERIFY ALL ROUGH OPENINGS DIMENSIONS PRIOR TO FABRICATION.
3. ALL DOORS AND GATES WITHIN THE ACCESSIBILITY PATH OF TRAVEL SHALL HAVE LEVER HARDWARE U.O.N. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED MINIMUM 34" AND MAXIMUM 44" ABOVE FINISH FLOOR. (CBC 1008.1.9.2).
4. ALL EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE (CBC 1008.1.9) AND THE FORCE REQUIRED TO PUSH OR PULL AN EGRESS DOOR TO THE OPEN POSITION SHALL NOT EXCEED 5 POUNDS (CBC 1008.1.3).
5. GLAZING IN DOORS OR WITHIN 40" OF ANY DOOR LOCKING MECHANISM SHALL BE FULLY TEMPERED SAFETY GLASS.
6. ALL GLAZING IN EXTERIOR DOORS & WINDOWS SHALL HAVE A MAXIMUM SHGC- VALUE OF 0.29 AND A MAXIMUM U-VALUE OF 0.29 MANUFACTURED WINDOWS SHALL BE CERTIFIED AND LABELED TO SHOW COMPLIANCE WITH THESE STANDARDS.
7. ALL PEDESTRIAN DOORS AND GATES WITHIN THE ACCESSIBLE PATH OF TRAVEL SHALL BE PROVIDED WITH KICKPLATE AT THE BOTTOM 10 INCHES OF THE PUSH SIDE OF THE DOOR/GATE.
8. SEE PAINT SCHEDULE IN SECTION 099100 FOR PAINT FINISH CODES.

GLAZING TYPES

GL1A LAMINATED CLEAR

GL3A 1" DUAL (INSULATING) FULLY-TEMPERED GLASS w/ LOWe

ABBREVIATIONS

ALUM	ALUMINUM
FF	FACTORY FINISH
GALV	GALVINIZED
HM	HOLLOW METAL
PH	PANIC HARDWARE
STL	STEEL
WD	WOOD
(E)	EXISTING

COUNTY of VENTURA Library

PUBLIC VENTURA COUNTY WORKS

ENGINEERING SERVICES

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
199 FIGUEROA STREET, SUITE 100A
VENTURA, CA 93001
TELEPHONE (805) 963-1726

TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C 25839 Ren. 08/30/2027 STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCIPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY JONATHAN D LEE AIA
CHECKED BY TODD A JESPERSEN AIA

ARCHITECTS JOB NO 24004
DATE 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO
SHEET ____ OF ____

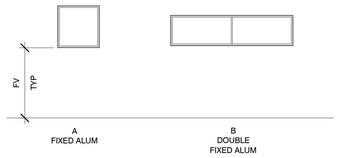
SHEET TITLE

DOOR SCHEDULE

SHEET NO

A-400

WINDOW SCHEDULE															
MARK	TYPE	WIDTH	HEIGHT	FRAME MAT'L	FRAME FIN	FRAME COLOR	GLASS TYPE	GLASS THK	SCREEN	ASS'Y FIRE RATING	HEAD	L JAMB	R JAMB	SILL	REMARKS
10	A	2' - 8 7/8"	2' - 9"	ALUM	FF	TBD	GL3A	1"			11/A-705	11/A-705	11/A-705	13/A-705	
20	A	4' - 0"	2' - 0"	ALUM	FF	TBD	GL3A	1"			14/A-705	14/A-705	14/A-705	7A/A-705	
21	B	8' - 0"	2' - 0"	ALUM	FF	TBD	GL3A	1"			14/A-705	14/A-705	14/A-705	7A/A-705	



4 Window Types

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

GENERAL NOTES

1. SEE PAINT COLOR LEGEND ON A-401.
2. VERIFY ALL ROUGH OPENINGS DIMENSIONS PRIOR TO FABRICATION.
3. ALL DOORS AND GATES WITHIN THE ACCESSIBILITY PATH OF TRAVEL SHALL HAVE LEVER HARDWARE U.O.N. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED MINIMUM 34" AND MAXIMUM 44" ABOVE FINISH FLOOR. (CBC 1008.1.9.2).
4. ALL EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE (CBC 1008.1.9) AND THE FORCE REQUIRED TO PUSH OR PULL AN EGRESS DOOR TO THE OPEN POSITION SHALL NOT EXCEED 5 POUNDS (CBC 1008.1.3).
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6. ALL GLAZING IN EXTERIOR DOORS & WINDOWS SHALL HAVE A MAXIMUM SHGC- VALUE OF 0.29 AND A MAXIMUM U-VALUE OF 0.29 MANUFACTURED WINDOWS SHALL BE CERTIFIED AND LABELED TO SHOW COMPLIANCE WITH THESE STANDARDS.
7. ALL PEDESTRIAN DOORS AND GATES WITHIN THE ACCESSIBLE PATH OF TRAVEL SHALL BE PROVIDED WITH KICKPLATE AT THE BOTTOM 10 INCHES OF THE PUSH SIDE OF THE DOOR/GATE.
8. SEE PAINT SCHEDULE IN SECTION 099100 FOR PAINT FINISH CODES.

GLAZING TYPES

GL1A	LAMINATED CLEAR
GL3A	1" DUAL (INSULATING) FULLY-TEMPERED GLASS w/ LOWe

ABBREVIATIONS

ALUM	ALUMINUM
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NO	REVISION	DATE
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PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY JONATHAN D LEE AIA
CHECKED BY TODD A JESPERSEN AIA

ARCHITECT'S JOB NO 24004
DATE 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER CP26-12

COUNTY PROJECT NUMBER P6T24008

COUNTY DWG NO **SHEET** ____ OF ____

SHEET TITLE

WINDOW SCHEDULE

SHEET NO

A-401

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR				BASE			WAINSCOT				NORTH			EAST			SOUTH			WEST			CEILING				REMARKS
		SUBFLOOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT	
101	Vestibule	1	M1	(none)	(none)	M1	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
102	Friends of the Library Bookstore	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M12	F2	S1	M8	F2	S1	M8	F2	S1	M12	F2	S1	M11	F1	(none)	14'-0"	
103	Friends of the Library Sorting Room	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M12	F2	S1	M12	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	14'-0"	
104A	Study	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M12	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	9'-6"	
104B	Study	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M12	F2	S1	M8	F2	S1	M11	F1	(none)	9'-6"	
105	Women	1	M5	F1	B2	M5	F1	C2	M5	F1	S2	8'-6"	M5	F1	S2	M5	F1	S2	M5	F1	S2	M5	F1	S2	M12	F2	P1	8'-6"	
106	Men	1	M5	F1	B2	M5	F1	C2	M5	F1	S2	8'-6"	M5	F1	S2	M5	F1	S2	M5	F1	S2	M5	F1	S2	M12	F2	P1	8'-6"	
107	All-Gender	1	M5	F1	B2	M5	F1	C2	M5	F1	S2	8'-6"	M5	F1	S2	M5	F1	S2	M5	F1	S2	M5	F1	S2	M12	F2	P1	8'-6"	
108	Elec Room	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	NO NEW WORK
109	Hall	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M12	F2	S1	M12	F2	S1	M8	F2	S1	M11	F1	(none)	14'-0"	
110	Stair No. 4	1	M3	F1	B1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F2	P1	(none)	
111	Ref. Desk	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
112	Staff	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
113A	Study	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M12	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	9'-0"	
113B	Study	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M12	F2	S1	M8	F2	S1	M12	F2	S1	M11	F1	(none)	9'-0"	
113C	Study	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M12	F2	S1	M11	F1	(none)	9'-0"	
114	Reference	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	(none)	(none)	(none)	M11	F1	(none)	(none)	
115	Governemnt Documents	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	(none)	(none)	(none)	(none)	(none)	(none)	M11	F1	(none)	(none)	
116	Librarian's Office	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
117	Stair No. 3	1	M3	F1	B1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	(none)	(none)	(none)	M11	F2	P1	(none)	
118	Lobby	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	(none)	(none)	(none)	M8	F2	S1	M11	F1	(none)	(none)	
119	Custodian	1	M6	F1	B3	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F2	P1	(none)	
120	Vestibule	1	M1	(none)	(none)	M1	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
121	Juvenile/Adult Non-Fiction	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
122	Stair No. 2	1	M3	F1	B1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F2	P1	(none)	
123	Lobby	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	(none)	(none)	(none)	M8	F2	S1	M11	F1	(none)	(none)	
124	Stair No. 1	1	M1	(none)	(none)	M1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
125	Topping Room	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
126	All-Gender	1	M5	F1	B2	M5	F1	C2	M5	F1	S2	8'-6"	M5	F1	S2	M5	F1	S2	M5	F1	S2	M5	F1	S2	M12	F2	P1	8'-6"	
201	Lobby	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	(none)	(none)	(none)	M8	F2	S1	M11	F1	(none)	(none)	
202	Staff	1	M6	F1	B3	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
203	Stair No. 3	1	M3	F1	B1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
204	Circ. Desk	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	F1	(none)	(none)	
205	Preschool	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M11	F1	(none)	(none)	
206	Juvenile Fiction	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
207	Homework Center	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	(none)	(none)	(none)	M11	F1	(none)	(none)	
208	Adult / Fiction	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
209	Young Adult	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	(none)	(none)	(none)	(none)	(none)	(none)	M11	F1	(none)	(none)	
210	Staff	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
211	Stair No. 4	1	M3	F1	B1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
212	Periodicals	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
213	Women	1	M5	F1	B2	M5	F1	C2	M5	F1	S2	8'-0"	M5	F1	S2	M5	F1	S2	M5	F1	S2	M5	F1	S2	M12	F2	P1	8'-0"	
214	Men	1	M5	F1	B2	M5	F1	C2	M5	F1	S2	8'-0"	M9	F2	S1	M9	F2	S1	M9	F2	S1	M9	F2	S1	M12	F2	P1	8'-0"	
215	Lounge	1	M6	F1	B3	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
216	Librarian	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
217	Hall	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
218	Stair No. 2	1	M3	F1	B1	(none)	(none)	(none)	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F1	(none)	(none)	
219	Stor.	1	M2	F1	B1	M7	F1	C1	(none)	(none)	(none)	(none)	M8	F2	S1	M8	F2	S1	M8	F2	S1	M8	F2	S1	M11	F2	P1	(none)	

1	(E) CONCRETE SUBFLOOR
M1	(E) TERRAZZO
M2	CARPET TILE
M3	BROADLOOM CARPET
M4	NOT USED
M5	CERAMIC TILE
M6	LUXURY VINYL
M7	RUBBER
M8	(E) PLASTER/CONC. OR (E) GYP. BD.
M9	NOT USED
M10	NOT USED
M11	(E) OR (N) CEILING
M12	GYPSUM BOARD

B1	CARPET COLOR TO BE DETERMINED
B2	FLOOR TILE COLOR TO BE DETERMINED
B3	LUXURY VINYL COLOR TO BE DETERMINED
C1	RUBBER BASE COLOR TO BE DETERMINED
C2	TILE BASE COLOR TO BE DETERMINED
S1	PLASTER/CONC OR GYP. BD. WALL COLOR TO BE DETERMINED
S2	WALL TILE COLOR TO BE DETERMINED

P1	DUNN EDWARDS, PAINT COLOR: T.B.D. (WALLS & CEILINGS)

F1	FACTORY FINISH
F2	PAINT

1. DIRECTIONAL LOCATIONS INDICATED ON ROOM FINISH SCHEDULES ARE ORIENTATED ACCORDING TO TRUE NORTH AS SHOWN ON PLAN
2. ALL WALLS TO BE PAINTED P1 U.N.O.
3. ALL DOOR FRAMES TO BE PAINTED PAINT SYSTEM P28J. SEE DOOR SCHEDULE FOR COLORS.
4. ALL METAL DOORS TO BE PAINTED PAINT SYSTEM P28B. SEE DOOR SCHEDULE FOE COLORS.
5. PROVIDE TRANSITIONS AT ALL FLOORING MATERIAL CHANGES - REF DETAILS THIS SHEET.
6. ALL MATERIALS TO MEET CBC TABLE 8A FOR FRAME SPREAD.
7. INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED FOR FIRE PERFORMANCE AND SMOKE DEVELOPMENT PER 2016 CALIFORNIA BUILDING CODE, SEC. 803.
8. INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED BY OCCUPANCY PER TABLE 803.9 OR BE TESTED PER SEC. 803.12 (NFPA 286 CRITERIA) OF 2022 CALIFORNIA BUILDING CODE.
9. TEXTILE WALL AND VINYL COVERINGS SHALL BE TESTED PER SEC. 803.1.3 ACCEPTANCE CRITERIA OF NFPA 265 OR PER SEC. 803.1.4 ACCEPTANCE CRITERIA TESTED TO ASTM E84 OR UL 723 CLASS A FLAME SPREAD INDEX AND HAVE AFSS PER SEC. 903.1.1 OR 903.1.1.2, 2022 CALIFORNIA BUILDING CODE.
   a. EXCEPTION: 803.2 MATERIALS LESS THAN 0.036" THICK APPLIED DIRECTLY NEED NOT BE TESTED.
   b. PER SEC. 803.5 , TEXTILE WALL COVERINGS, INCLUDING CARPET, SHALL BE TESTED USING PRODUCT MOUNTING SYSTEM INCLUDING ADHESIVE.
   c. PER SEC. 803.6 , TEXTILE CEILING COVERINGS SHALL BE TESTED USING PRODUCT MOUNTING SYSTEM INCLUDING ADHESIVE.
   d. PER SEC. 803.7 , EXPANDED VINYL WALL COVERINGS SHALL BE TESTED USING PRODUCT MOUNTING SYSTEM INCLUDING ADHESIVE.
   e. PER SEC. 803.8 , EXPANDED VINYL CEILING COVERINGS SHALL BE TESTED USING PRODUCT MOUNTING SYSTEM INCLUDING ADHESIVE.
   f. PER SEC. 803.810, STABILITY - INTERIOR FINISH MATERIALS WILL NOT BECOME READILY DETACHED WHERE SUBJECTED TO ROOM TEMP. OF 200 DEG. F FOR 30 MIN.
10. DECORATIVE TRIM & MATERIALS SHALL COMPLY WITH 2016 CALIFORNIA BUILDING CODE.
11. THERMAL AND ACOUSTICAL INSULATION SHALL COMPLY WITH SEC. 719, 2022 CALIFORNIA BUILDING CODE.

ROOM FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC CHAPTERS 3, 4, 6, 7, 8 AND 10 AND CFC.
2. ALL EXPOSED STEEL FRAMING AND CONNECTORS AT BUILDING INTERIOR SHALL BE PAINTED.
3. ALL EXPOSED SPRINKLER PIPING AT BUILDING INTERIOR SHALL BE PAINTED.
4. ALL EXPOSED DUCTWORK SHALL BE PAINTED.
5. ALL EXPOSED GYPSUM BOARD SHALL RECEIVE A LEVEL 4 FINISH.
6. ALL INTERIOR WALL AND CEILING FINISHES SHALL MEET THE FLAMESPREAD AND SMOKE DEVELOPED INDEXES OF CBC TABLE 803.9.
7. FURNISH AND INSTALL 4'-0" HIGH 1" STAINLESS STEEL CORNER GUARDS AT ALL OUTSIDE WALL CORNERS WITHIN THE BUILDING.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR SHOP DRAWINGS AND PROVIDING AND INSTALLING THE REQUIRED FACILITY INFRASTRUCTURE FOR THE SUPPORT SYSTEM SERVICING ALL EQUIPMENTS. SUPPORT SYSTEMS INCLUDE, BUT NOT LIMITED TO CONDUITS, WIRES AND BOXES, UTILITIES SERVING ALL APPLIANCES. CONTRACTOR SHALL PROVIDE AND INSTALL ALL STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND OTHER REQUIRED SUPPORT SERVICES NECESSARY TO SUPPORT THE OPERATION OF THE BUILDING COMPONENTS.

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VENTURA, CA 93001
TELEPHONE (805) 963-1726

TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT
TODD A. JESPERSEN
No. C-25839
Ren. 08/30/2027
STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A. JESPERSEN AIA

DRAWN BY: JONATHAN D LEE AIA
CHECKED BY: TODD A JESPERSEN AIA

ARCHITECT'S JOB NO: 24004
DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

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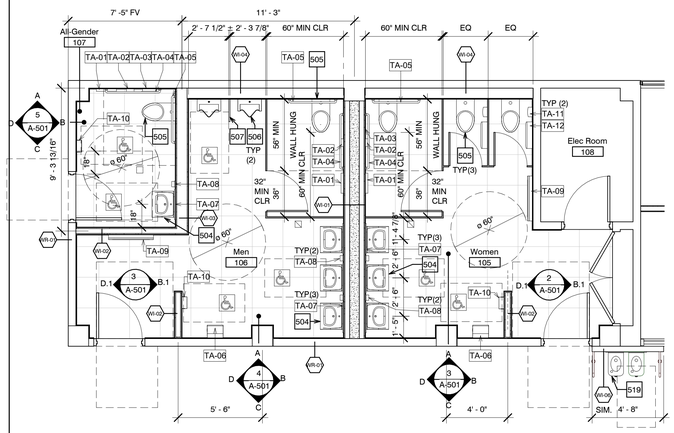
COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

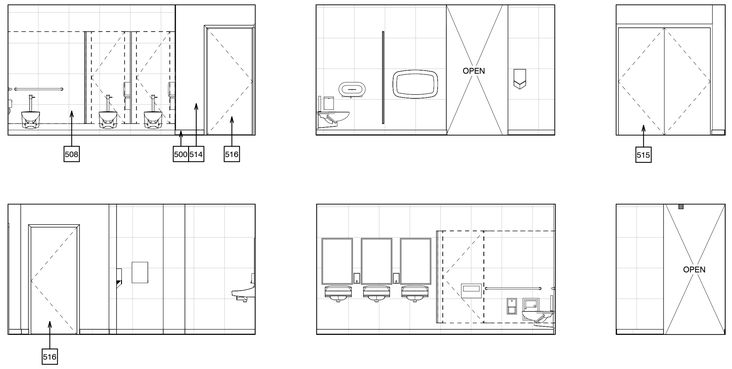
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
ROOM FINISH SCHEDULE

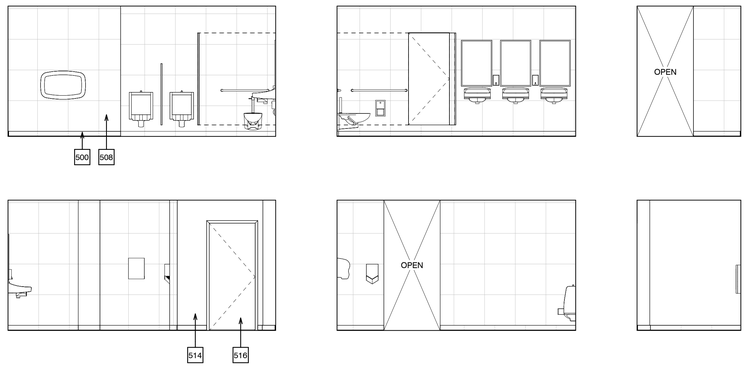
SHEET NO
A-402



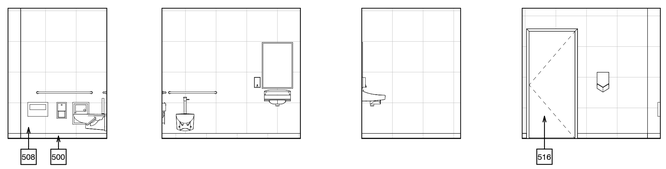
1 Enlarged 1st Floor Restroom Plan
SCALE: 1/4" = 1'-0"



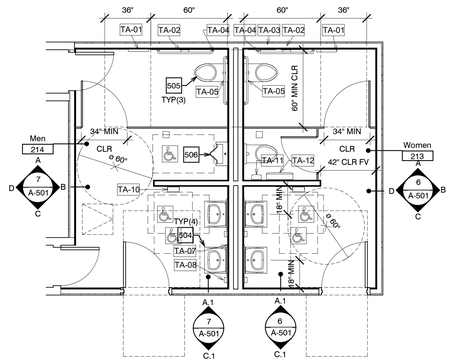
3 Women 105
SCALE: 1/4" = 1'-0"



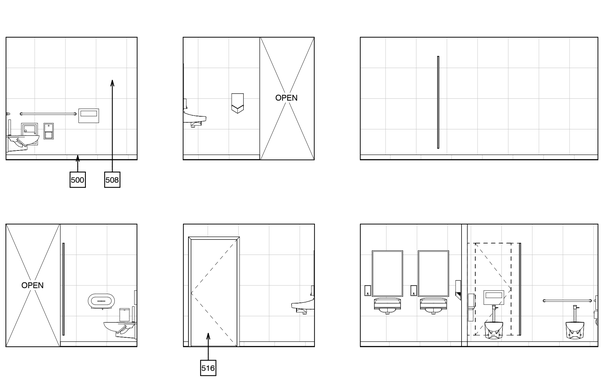
4 Men 106
SCALE: 1/4" = 1'-0"



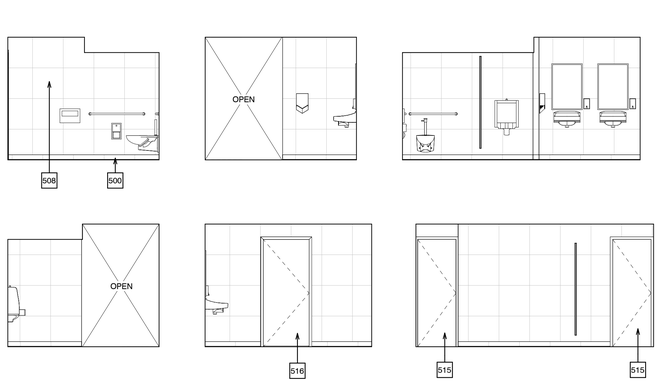
5 All - Gender 107
SCALE: 1/4" = 1'-0"



2 Enlarged 2nd Floor Restroom Plan
SCALE: 1/4" = 1'-0"



6 Women 213
SCALE: 1/4" = 1'-0"



7 Men 214
SCALE: 1/4" = 1'-0"

ELEVATION KEYNOTES

500	WALL BASE PER FINISH SCHEDULE
504	LAVATORY PER PLBG SCHED, TYP
505	WC w/ AUTO-FLUSH CONTROLS PER PLBG
506	URINAL PER PLBG SCHED, TYP
507	URINAL SCREEN
508	TILE PER FINISH SCHED
514	PT GYP BRD PER FINISH SCHED, TYP
515	(E) DOOR TO REMAIN, REPAINT PER FINISH SCHED
516	DOOR PER DOOR SCHED
519	HI LO DRINKING FOUNTAIN WITH RAILS

TOILET ACCESSORY

	<varies>
TA-01	SURFACE MOUNTED SEAT COVER DISPENSER
TA-02	RECESSED MULTI-ROLL TOILET TISSUE DISPENSER
TA-03	RECESSED SANITARY NAPKIN DISPOSAL
TA-04	42" GRAB BAR
TA-05	36" GRAB BAR
TA-06	SURFACE MOUNTED TOWEL DISPENSER
TA-07	GLASS MIRROR
TA-08	SURFACE MOUNTED SOAP DISPENSER
TA-09	HORIZONTAL BABY CHANGING STATION
TA-10	SURFACE MOUNTED ELECTRIC HAND DRYER (4" MAX PROJECTION FROM WALL)
TA-11	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
TA-12	SURFACE MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER

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PUBLIC WORKS PROJECT MANAGER
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PRINCIPAL-IN-CHARGE
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DRAWN BY JONATHAN D LEE AIA
CHECKED BY TODD A JESPERSEN AIA

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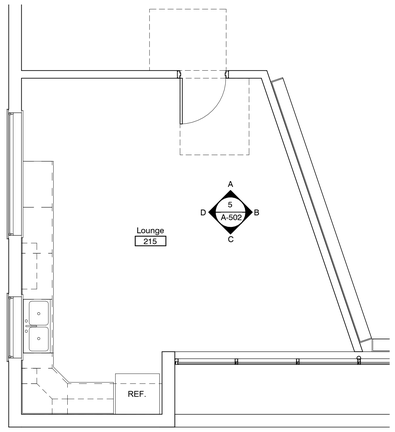
P6T24008

COUNTY DWG NO

SHEET ____ OF ____

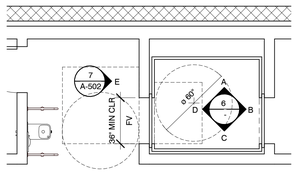
SHEET TITLE
ENLARGED RESTROOM FLOOR PLANS & INTERIOR ELEVATIONS

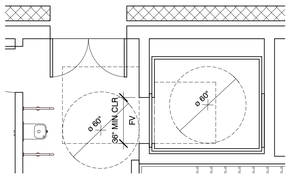
SHEET NO
A-501



1 Enlarged Floor Plan - Staff Lounge

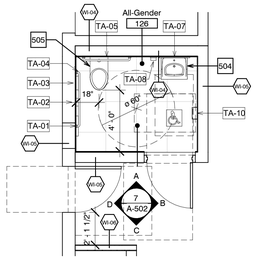
SCALE: 1/4" = 1'-0"





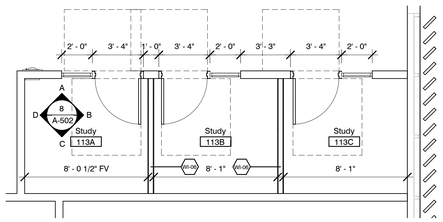
2 Enlarged Floor Plan - Elevator

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



3 Enlarged 1st Floor Plan - All-Gender Restroom

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

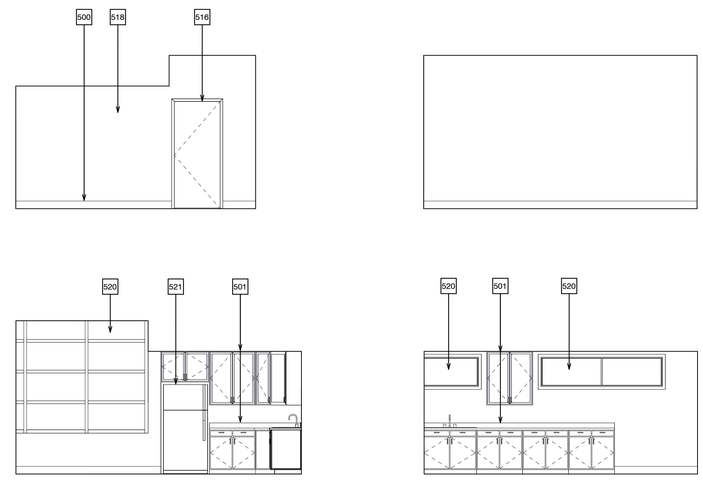


4 Enlarged 1st Floor Plan - Study 113A, 113B & 113C

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

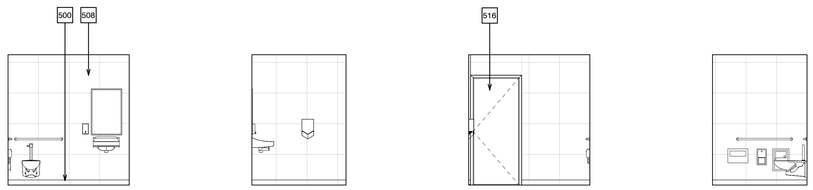
5 Lounge 215

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



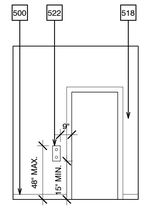
6 Elevator Cab Interior Elevations

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



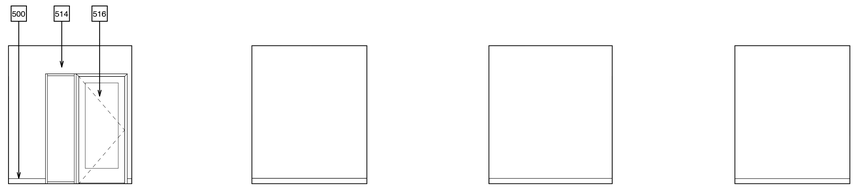
7 Lobby 118

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



8 All-Gender 126

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



9 Study Room, Typ.

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

ELEVATION KEYNOTES

500	WALL BASE PER FINISH SCHEDULE
501	BASE & UPPER CABINETS w/ SOLID SURFACING COUNTER & SPLASH
504	LAVATORY PER PLBG SCHED, TYP
505	WC w/ AUTO-FLUSH CONTROLS PER PLBG
508	TILE PER FINISH SCHED
514	PT GYP BRD PER FINISH SCHED, TYP
516	DOOR PER DOOR SCHED
518	PT (E) GYP BRD PER FINISH SCHED
520	WINDOW PER STOREFRONT AND WINDOW SCHED
521	REFRIGERATOR (OWNER FURNISHED CONTRACTOR INSTALLED)
522	ELEVATOR CALL BUTTON

TOILET ACCESSORY

	<varies>
TA-01	SURFACE MOUNTED SEAT COVER DISPENSER
TA-02	RECESSED MULTI-ROLL TOILET TISSUE DISPENSER
TA-03	RECESSED SANITARY NAPKIN DISPOSAL
TA-04	42" GRAB BAR
TA-05	36" GRAB BAR
TA-06	SURFACE MOUNTED TOWEL DISPENSER
TA-07	GLASS MIRROR
TA-08	SURFACE MOUNTED SOAP DISPENSER
TA-09	HORIZONTAL BABY CHANGING STATION
TA-10	SURFACE MOUNTED ELECTRIC HAND DRYER (4" MAX PROJECTION FROM WALL)
TA-11	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
TA-12	SURFACE MOUNTED TWIN JUMBO-ROLL TOILET TISSUE DISPENSER

COUNTY of VENTURA Library

PUBLIC WORKS VENTURA COUNTY

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TODD A JESPERSEN AIA
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JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE

PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA

PRINCINPAL-IN-CHARGE: TODD A JESPERSEN AIA

DRAWN BY: JONATHAN D LEE AIA

CHECKED BY: TODD A JESPERSEN AIA

ARCHITECT'S JOB NO: 24004

DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER: CP26-12

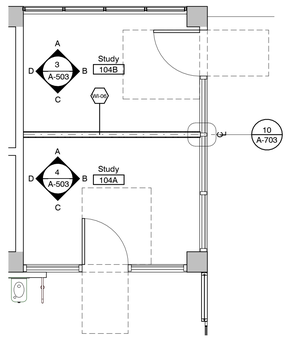
COUNTY PROJECT NUMBER: P6T24008

COUNTY DWG NO

SHEET OF

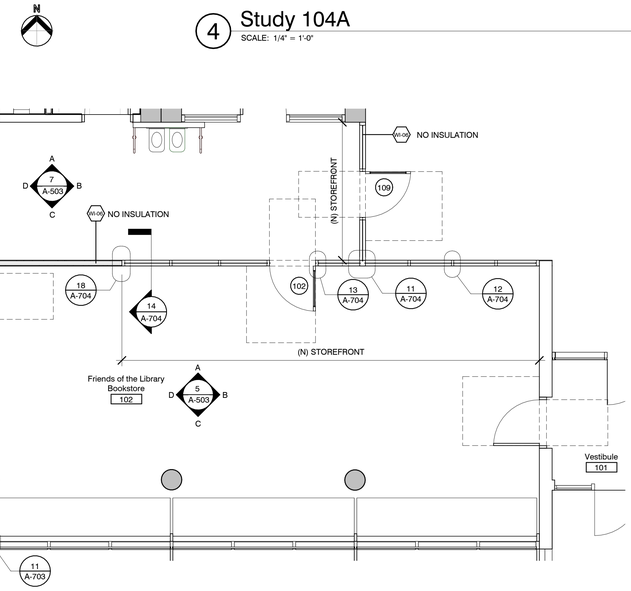
SHEET TITLE: ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS

SHEET NO: A-502



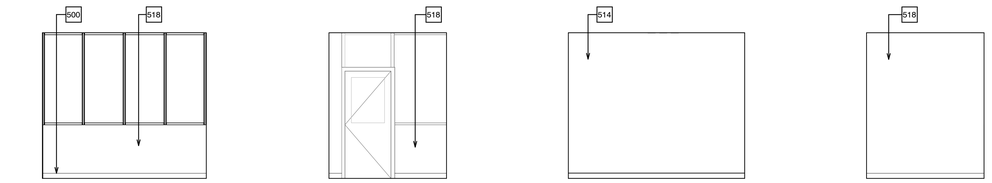
1 Enlarged 1st Floor Plan - Study 104A & 104B

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



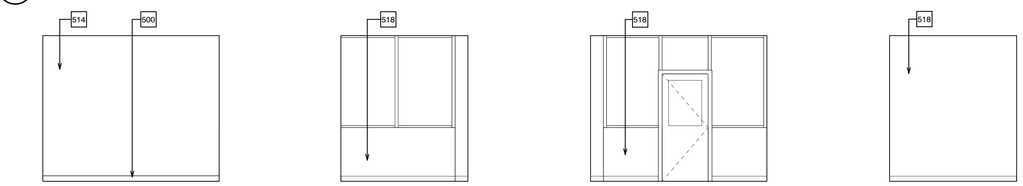
2 Enlarged 1st Floor Plan - FOL

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



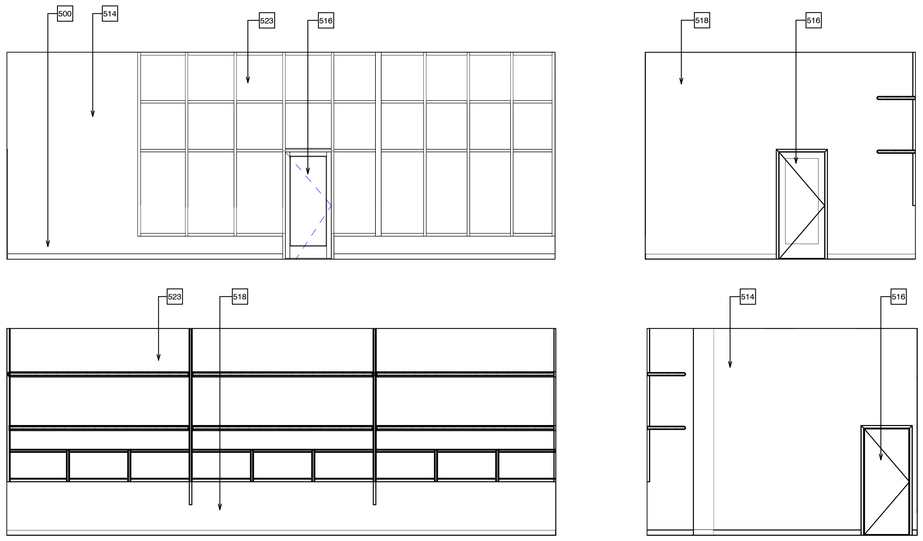
3 Study 104B

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



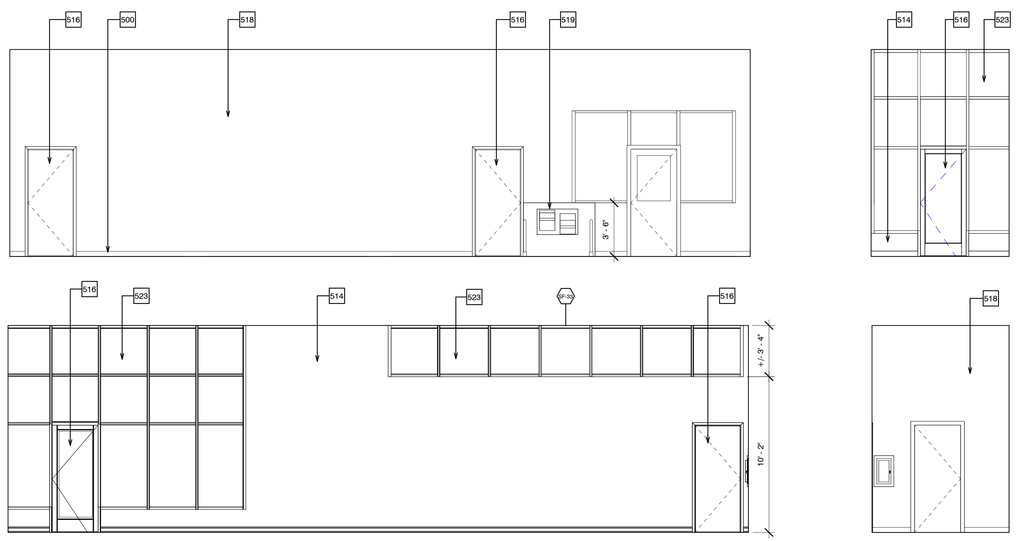
4 Study 104A

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



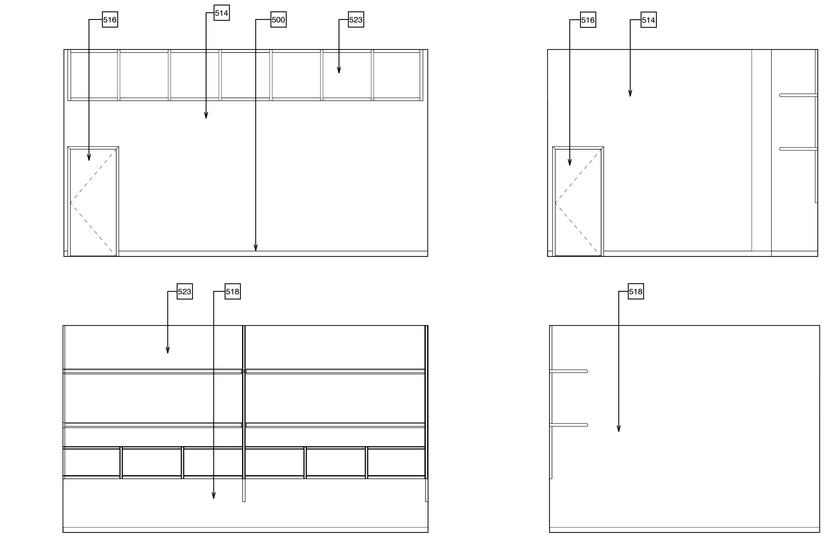
5 Friends of the Library Bookstore 102

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



7 Hall 109

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



6 Friends of the Library Sorting Room 103

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

ELEVATION KEYNOTES

500	WALL BASE PER FINISH SCHEDULE
514	PT GYP BRD PER FINISH SCHED, TYP
516	DOOR PER DOOR SCHED
518	PT (E) GYP BRD PER FINISH SCHED
519	HI LO DRINKING FOUNTAIN WITH RAILS
523	STOREFRONT PER STOREFRONT AND WINDOW SCHED

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PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
△		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

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TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA

ARCHITECT'S JOB NO	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

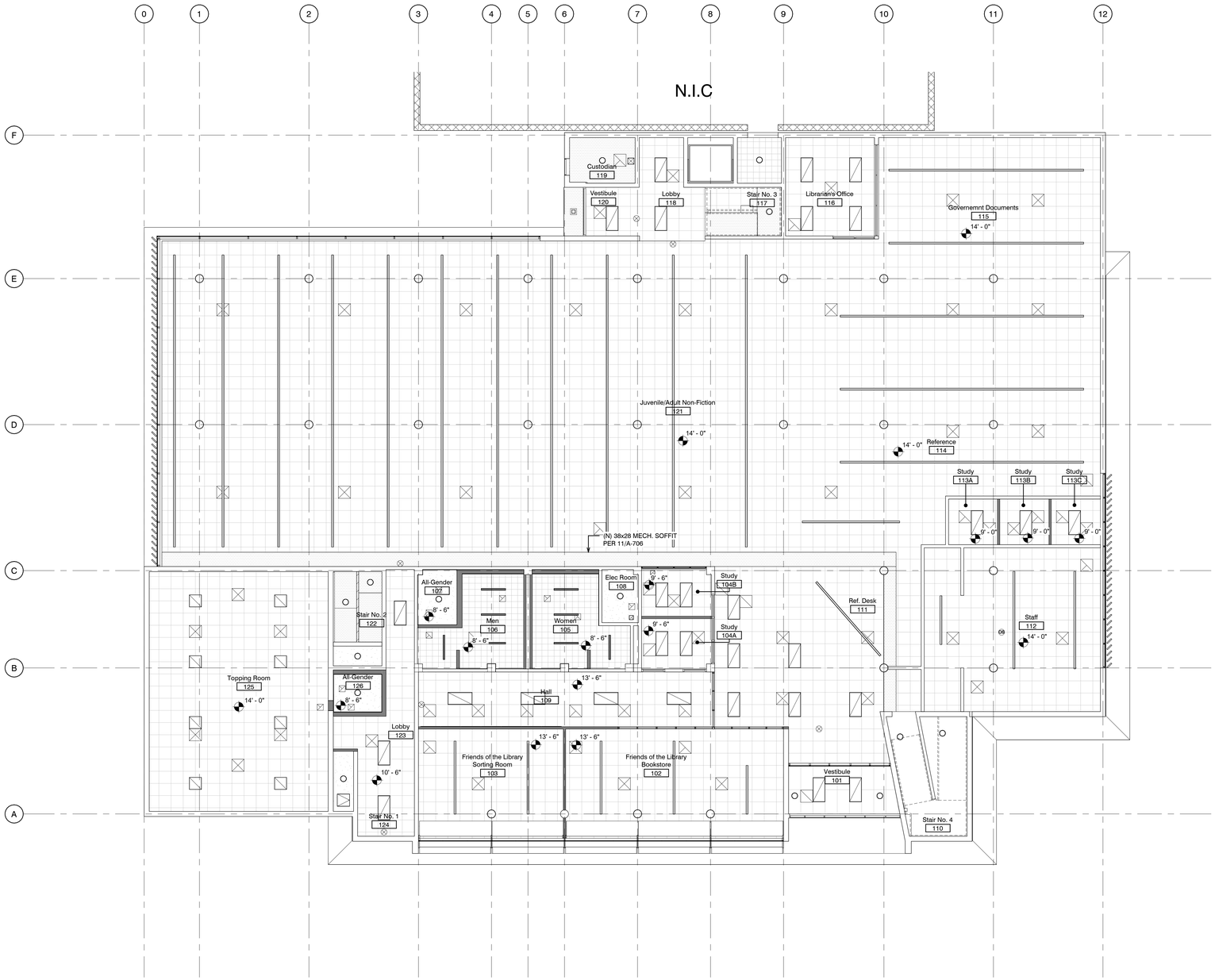
COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET OF

SHEET TITLE
ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS

SHEET NO
A-503

FLOOR PLAN KEYNOTES



1 RCP - First Floor

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

N

GENERAL NOTES

CEILING LEGEND

- RECESSED FLOURESCENT LIGHTS
- SUSPENDED LIGHT
- SURFACE MOUNT LIGHT
- INCANDESCENT LIGHT
- RECESSED LIGHT
- SUPPLY DIFFUSER/GRILLE
- RETURN DIFFUSER/GRILLE
- TRANSFER DIFFUSER/GRILLE
- EXHAUST DIFFUSER/GRILLE
- SUSPENDED ACT 2X2
- 12"X12" ACT o/ GYP BRD
- GYP BRD OR PLASTER SOFFIT/CEILING

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PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO	BP25-02229	
NO	REVISION	DATE

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA
ARCHITECT'S JOB NO 24004	**DATE** 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

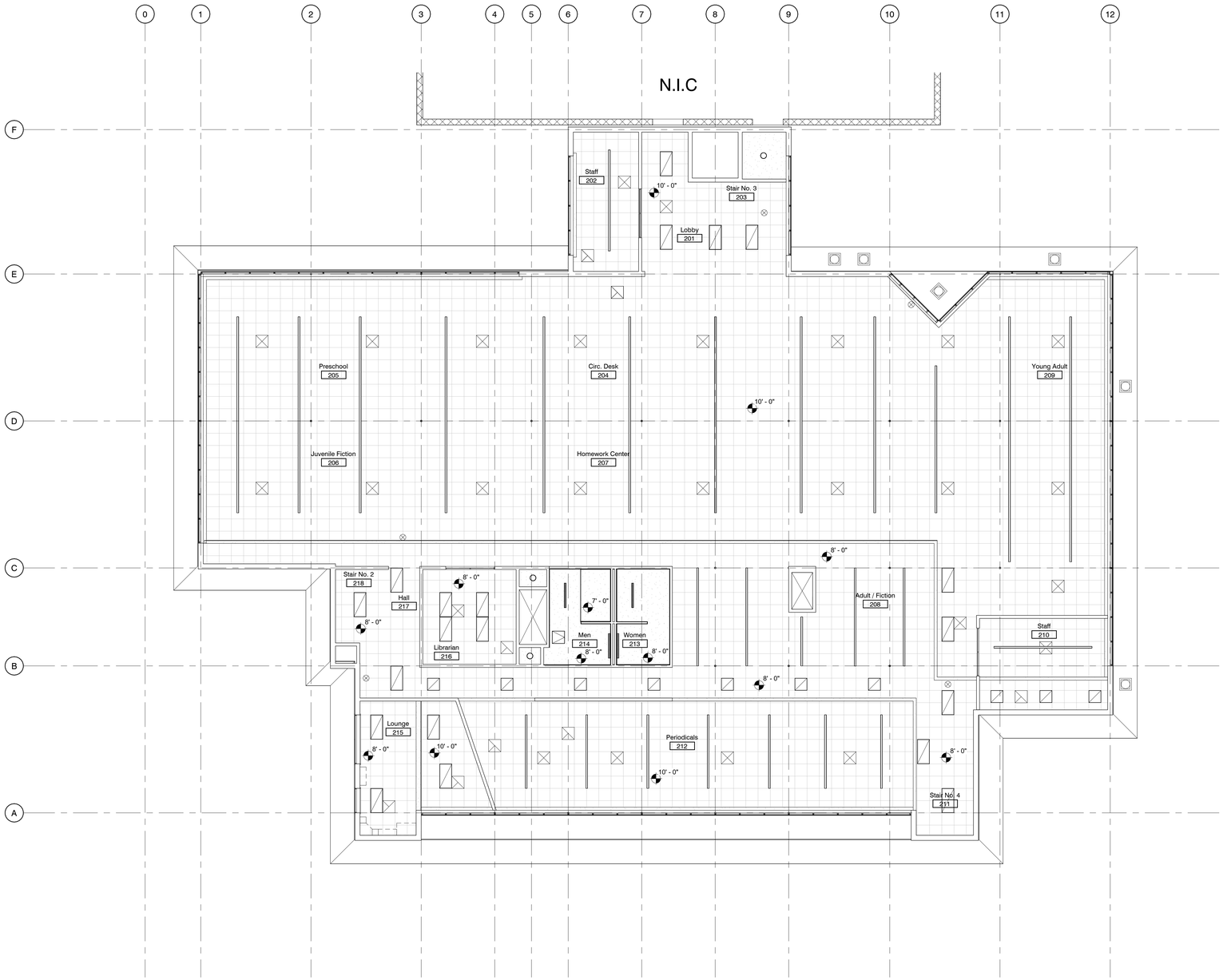
COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | **SHEET** ____ OF ____

SHEET TITLE

RCP - FIRST FLOOR

SHEET NO
A-601



1 RCP - Second Floor

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

N

GENERAL NOTES

CEILING LEGEND

- RECESSED FLOURESCENT LIGHTS
- SUSPENDED LIGHT
- SURFACE MOUNT LIGHT
- INCANDESCENT LIGHT
- RECESSED LIGHT
- SUPPLY DIFFUSER/GRILLE
- RETURN DIFFUSER/GRILLE
- TRANSFER DIFFUSER/GRILLE
- EXHAUST DIFFUSER/GRILLE
- SUSPENDED ACT 2X2
- 12"X12" ACT o/ GYP BRD
- GYP BRD OR PLASTER SOFFIT/CEILING

COUNTY of VENTURA Library

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PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY JONATHAN D LEE AIA
CHECKED BY TODD A JESPERSEN AIA

ARCHITECT'S JOB NO 24004
DATE 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

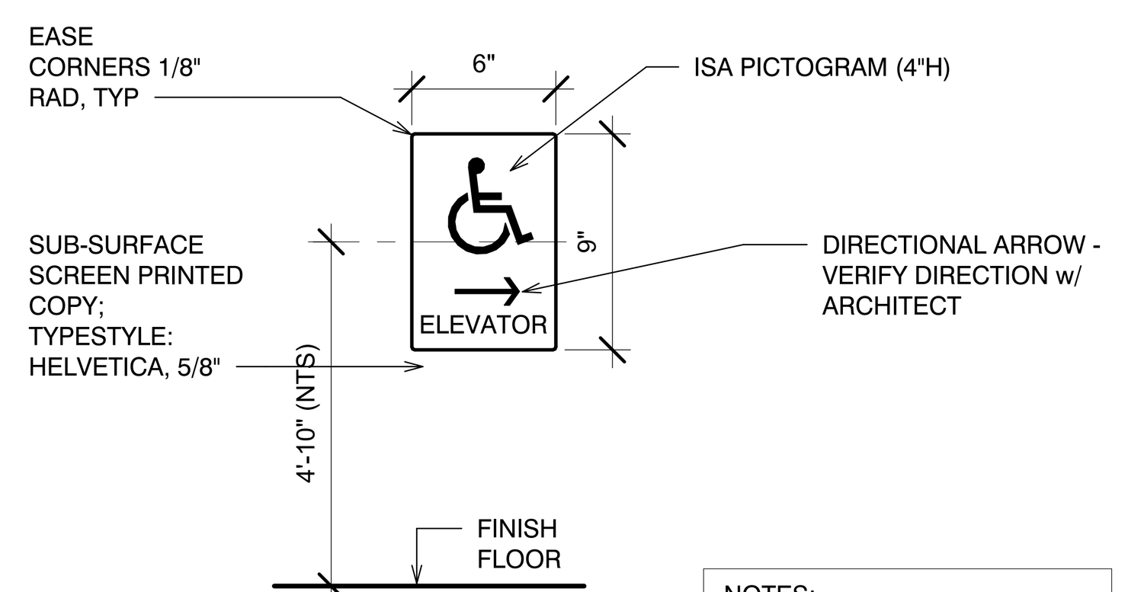
COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | **SHEET** ____ OF ____

SHEET TITLE

RCP - SECOND FLOOR

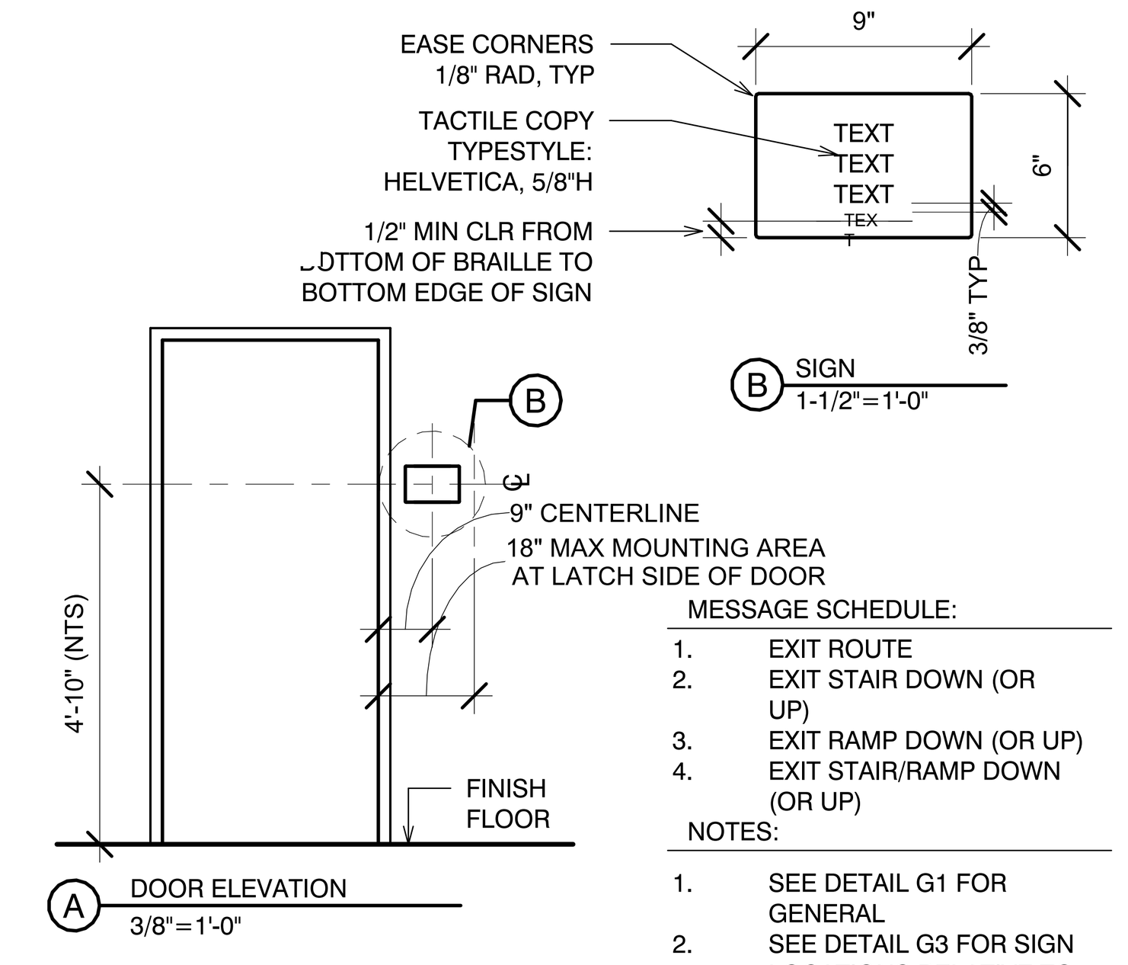
SHEET NO
A-602



NOTES:

SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES

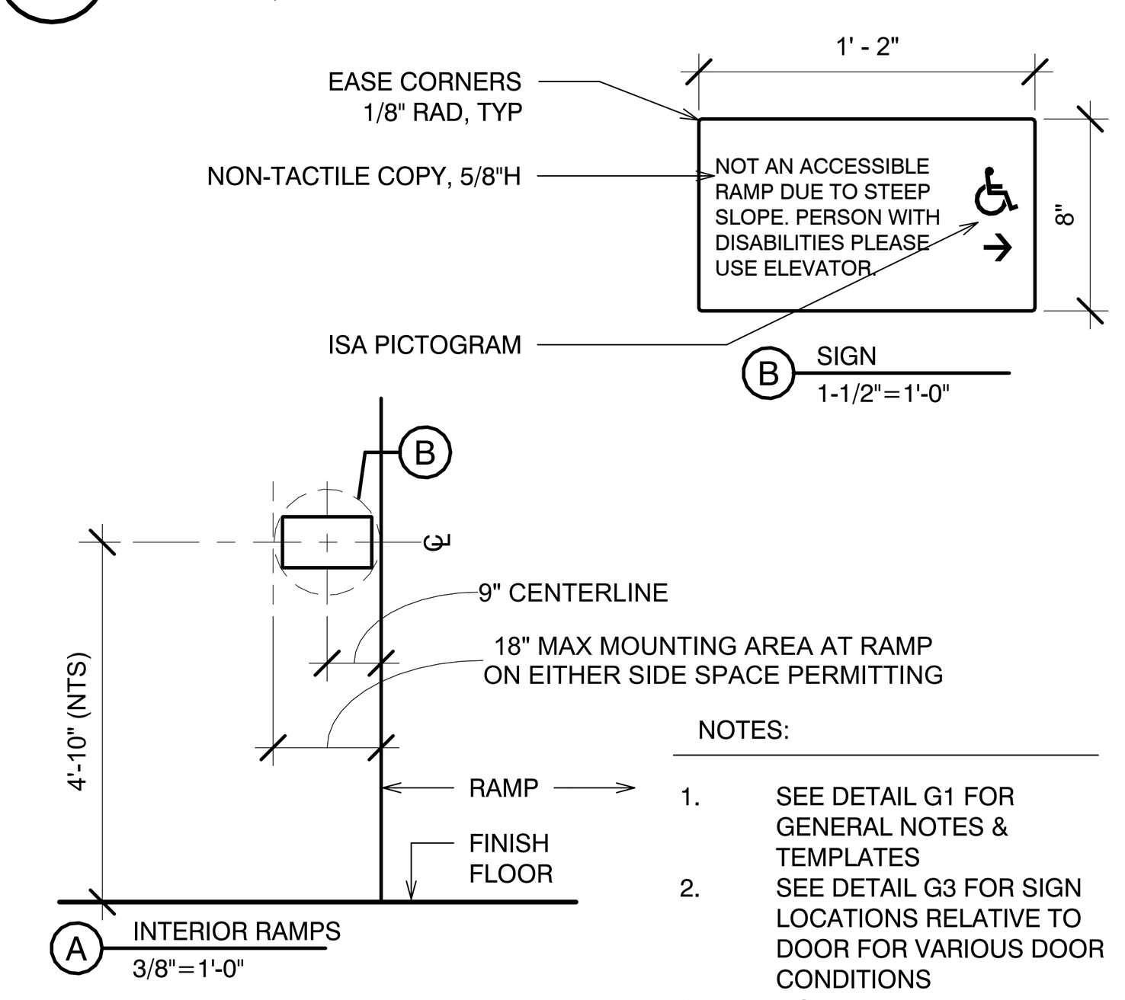
S9 Signage - Elevator
SCALE: 1 1/2" = 1'-0"



MESSAGE SCHEDULE:
1. EXIT ROUTE
2. EXIT STAIR DOWN (OR UP)
3. EXIT RAMP DOWN (OR UP)
4. EXIT STAIR/RAMP DOWN (OR UP)

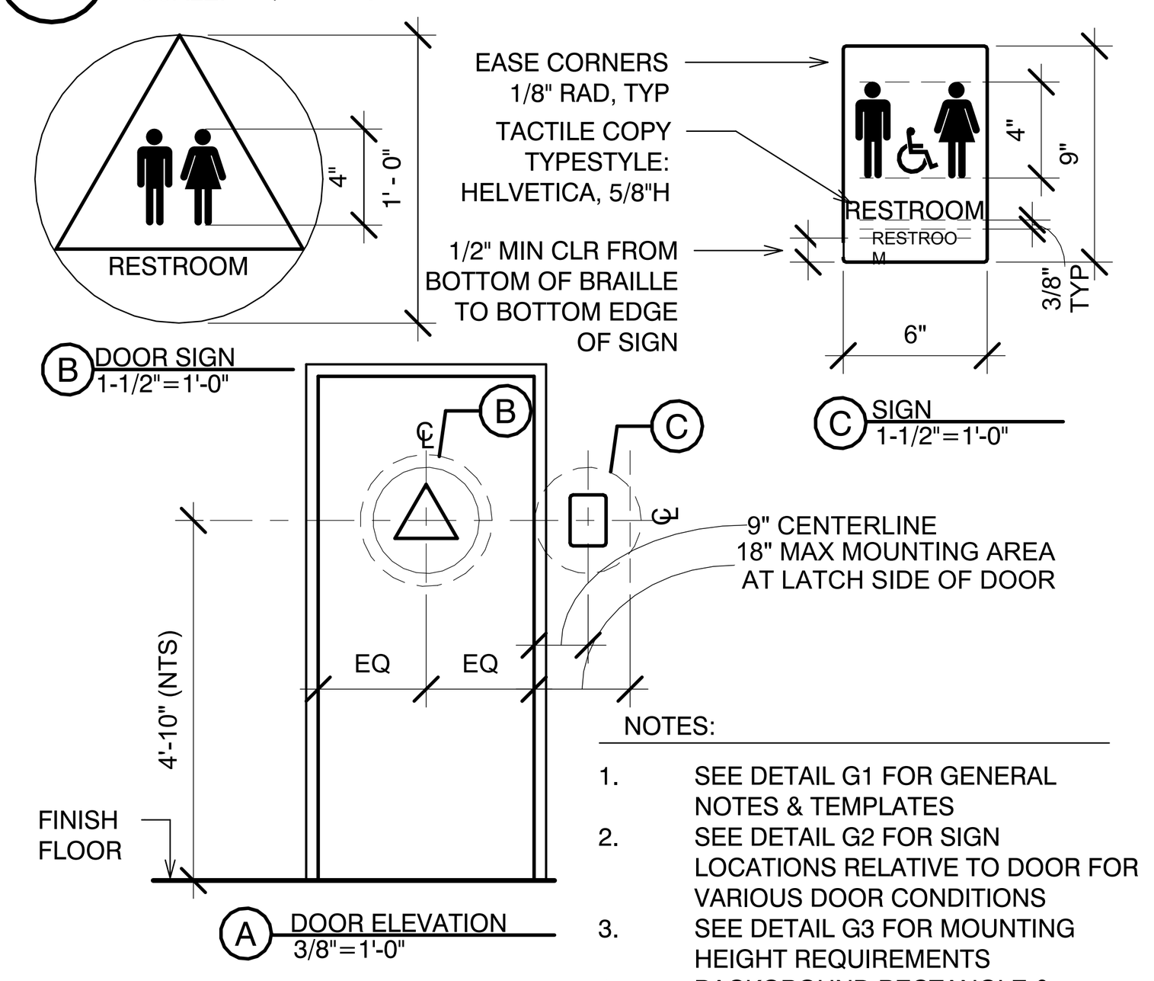
NOTES:
1. SEE DETAIL G1 FOR GENERAL
2. SEE DETAIL G3 FOR SIGN LOCATIONS RELATIVE TO DOOR FOR VARIOUS DOOR CONDITIONS

S4 Signage
SCALE: 1 1/2" = 1'-0"



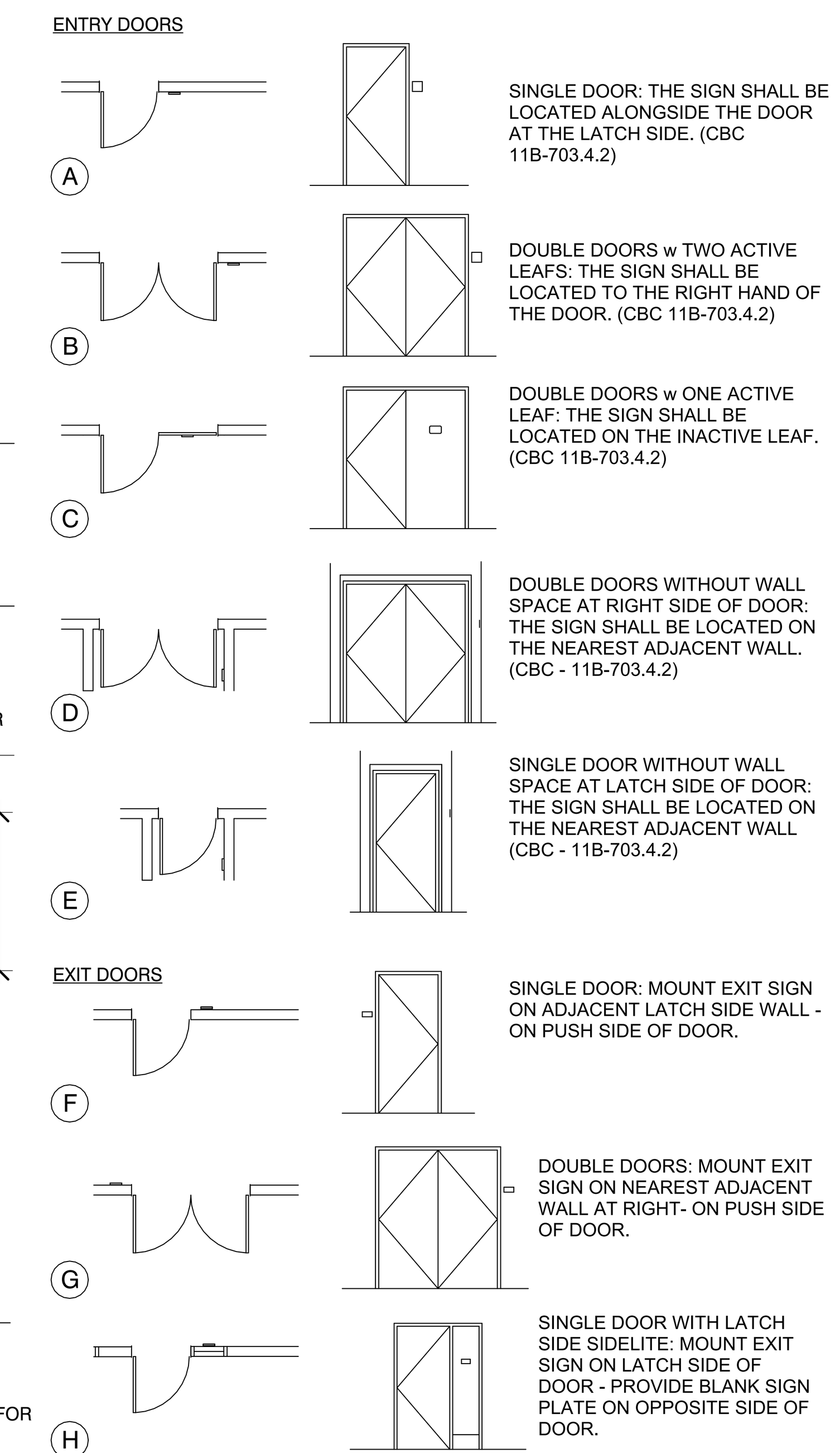
NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES
2. SEE DETAIL G3 FOR SIGN LOCATIONS RELATIVE TO DOOR FOR VARIOUS DOOR CONDITIONS
3. NOTE: VERIFY TEXT AND ARROW ORIENTATION

S10 Signage
SCALE: 1 1/2" = 1'-0"



NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES
2. SEE DETAIL G2 FOR SIGN LOCATIONS RELATIVE TO DOOR FOR VARIOUS DOOR CONDITIONS
3. SEE DETAIL G3 FOR MOUNTING HEIGHT REQUIREMENTS
4. BACKGROUND RECTANGLE & TRIANGLE COLOR: SC1 TEXT/SYMBOL COLOR AND CIRCLE COLOR: SC2

S5 Signage
SCALE: 1 1/2" = 1'-0"



G3 Sign Locations Relative to Door
SCALE: 1/4" = 1'-0"

A. RAISED CHARACTERS PER CBC 11B-703.2

1. **DEPTH**: RAISED CHARACTERS SHALL BE 1/32" MIN ABOVE THEIR BACKGROUND.
2. **CASE:** CHARACTERS SHALL BE UPPERCASE.
3. **STYLE:** CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS
4. **CHARACTER PROPORTION:** CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I".
5. **CHARACTER HEIGHT:** CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MIN AND 2" MAX BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
6. **STROKE THICKNESS:** STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER.
7. **CHARACTER SPACING:** CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE BASE OF THE CROSS SECTION, AND 1/8" MIN AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MIN.
8. **LINE SPACING:** SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135& MIN AND 170% MAX OF THE RAISED CHARACTER HEIGHT.
9. **FOMAT:** TEXT SHALL BE IN A HORIZONTAL FORMAT.

B. BRAILLE: CONTRACTED (GRADE 2) PER 11B-703.3

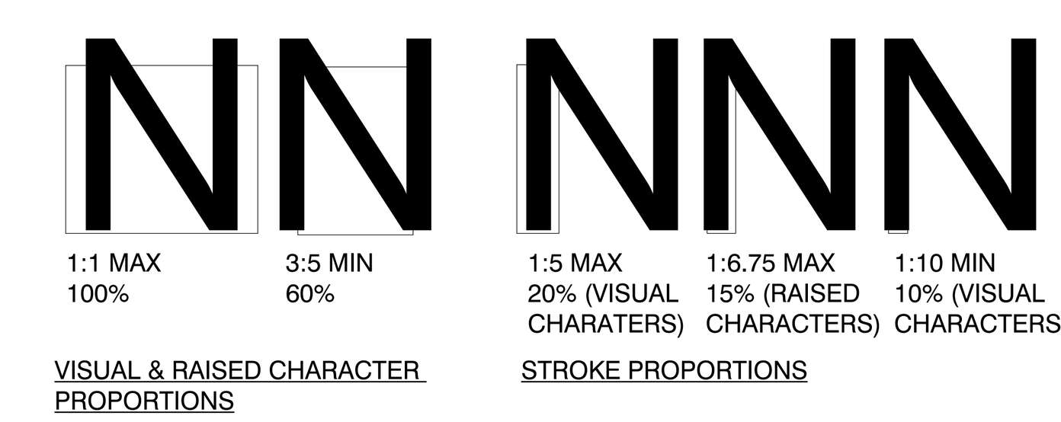
1. **DIMENSIONS AND CAPITALIZATION**: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.
2. **POSITION**: BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OF CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" MIN AND 1/2" MAX FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED BY 3/16" MIN AND SHALL BE LOCATED EITHER DIRECTLY BELOW THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

C. VISUAL CHARACTERS PER CBC 11B-703.5

1. SHALL COMPLY WITH CBC 11B-703.2 & 11B-703.3
2. **FINISH & CONTRAST**: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

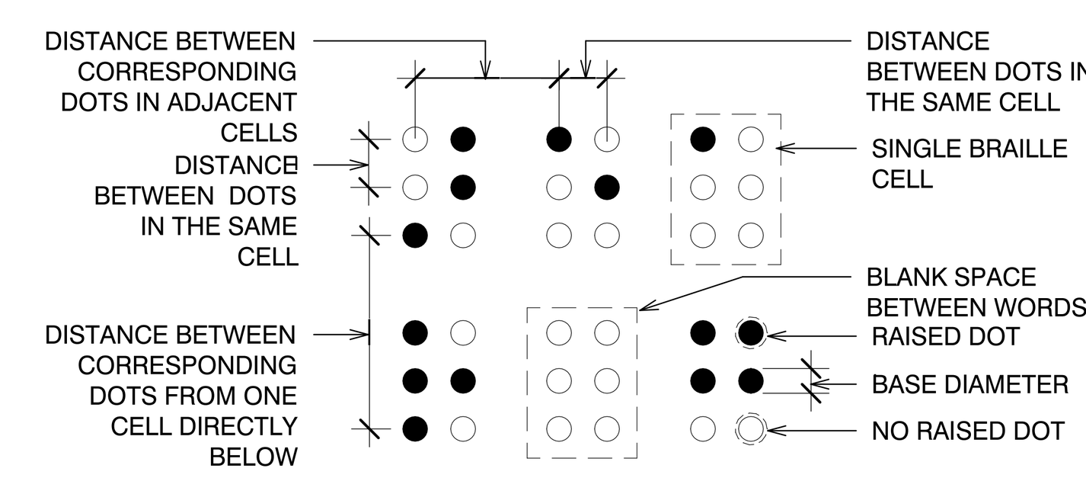
SIGN BACKGROUND (FIELD) COLOR SC1: T.B.D.
SIGN TEXT/SYMBOL COLOR SC2: T.B.D.

A SIGNAGE GENERAL NOTES

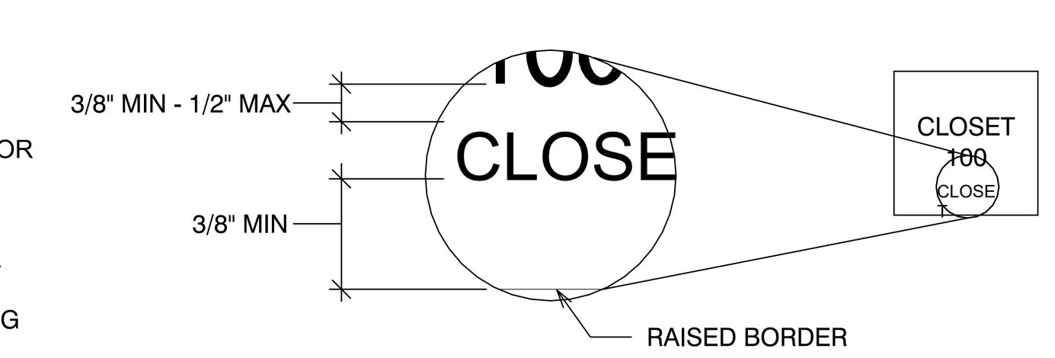


B WIDTH TO HEIGHT PROPORTIONS TEMPLATE
NOT TO SCALE

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 to 0.063
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL	0.100
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	0.300
DOT HEIGHT	0.025 to 0.037
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395 to 0.400

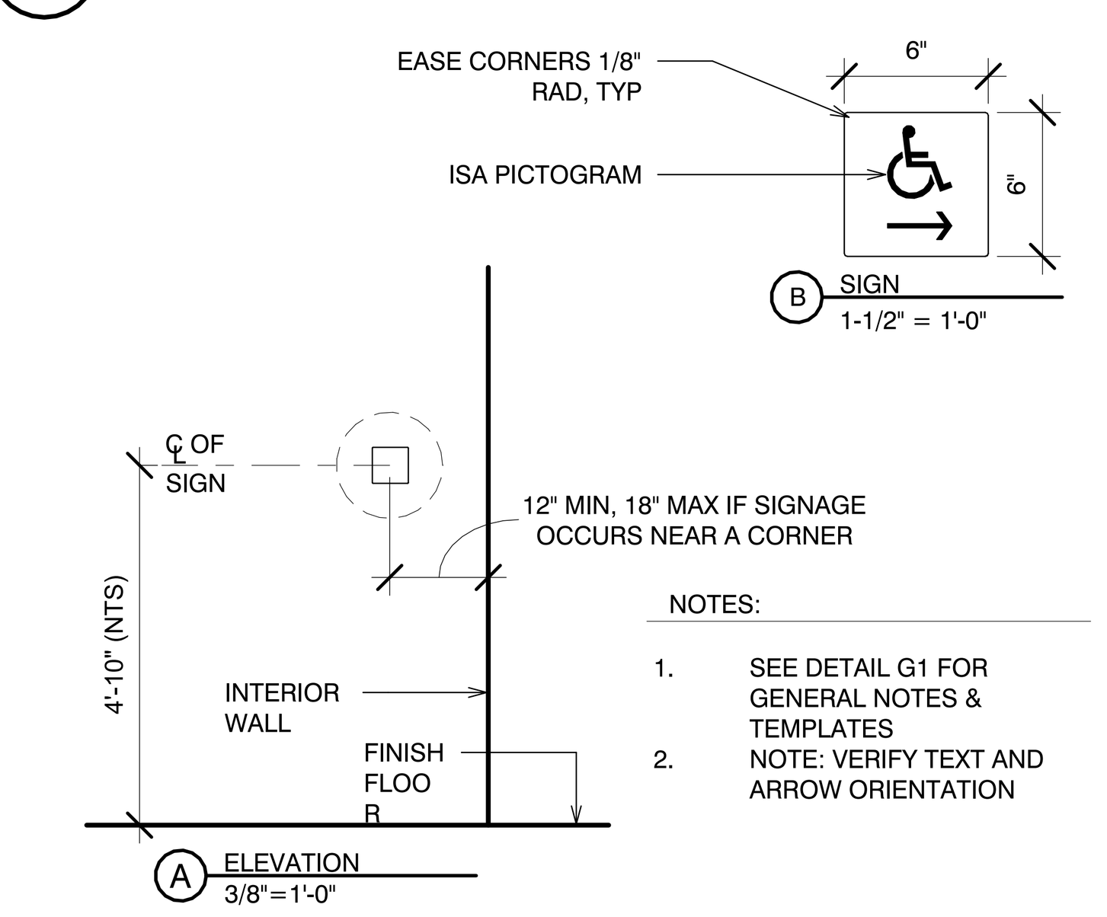


C BRAILLE SPACING & SHAPE TEMPLATE
NOT TO SCALE



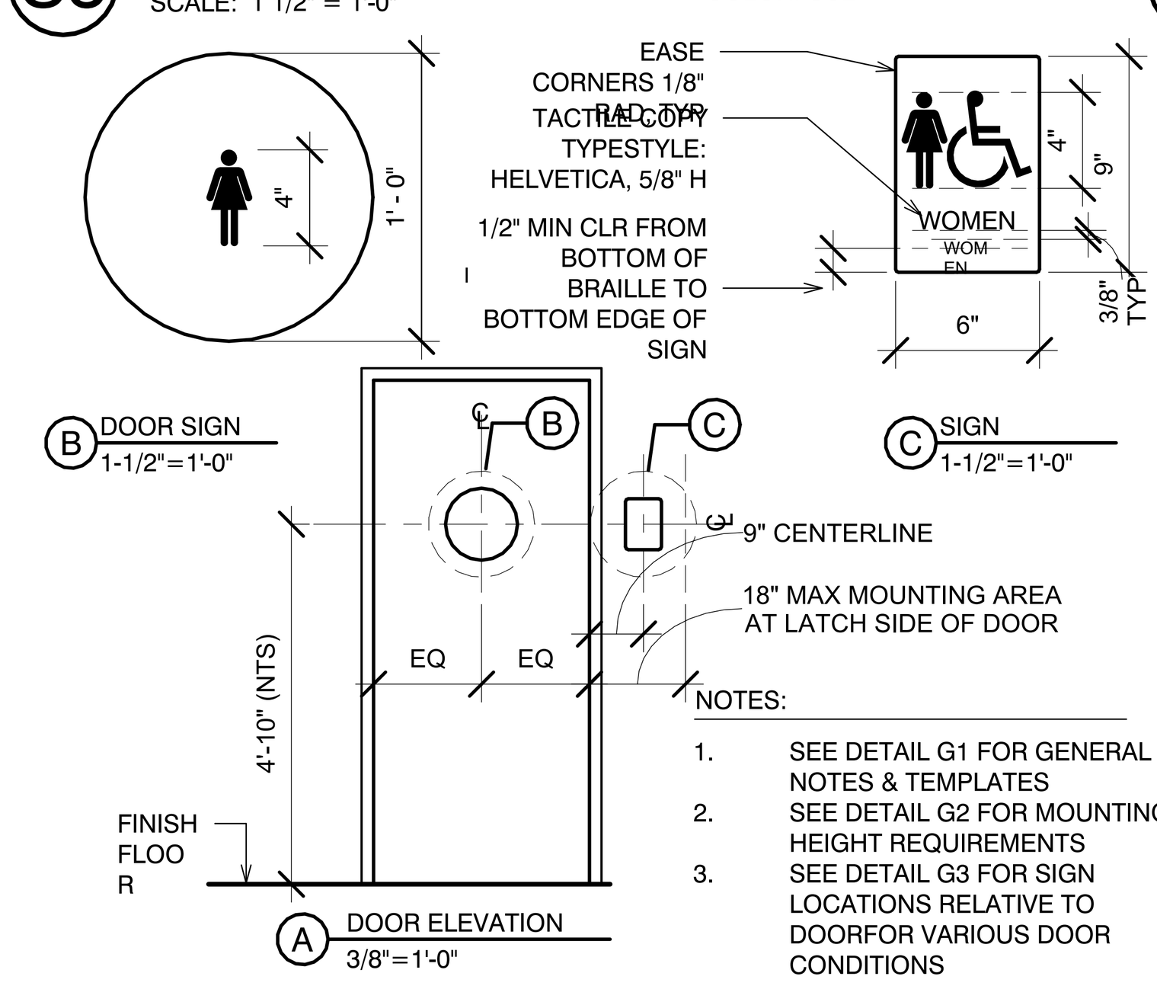
D BRAILLE POSITION
NOT TO SCALE

G1 Signage General Notes and Templates
SCALE: 12" = 1'-0"



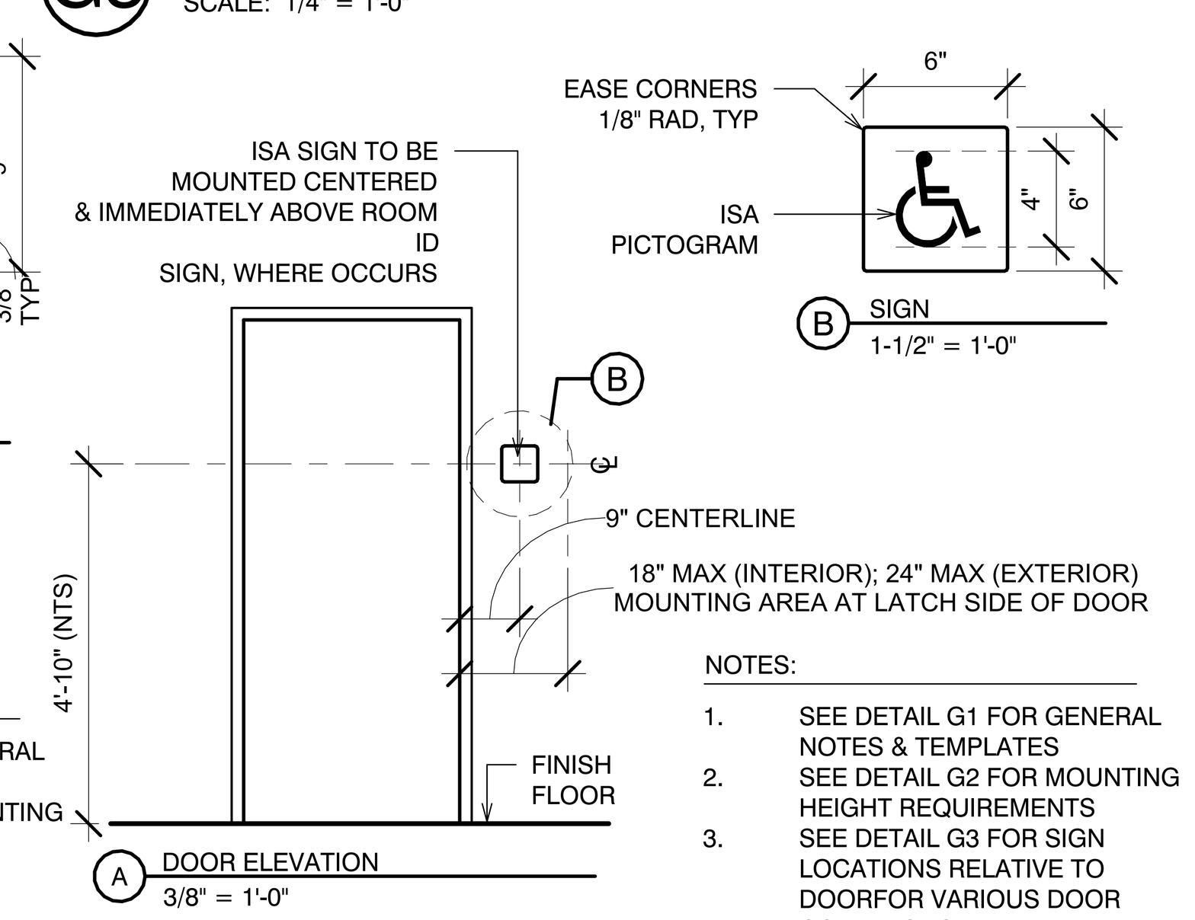
NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES
2. NOTE: VERIFY TEXT AND ARROW ORIENTATION

S11 Signage
SCALE: 1 1/2" = 1'-0"



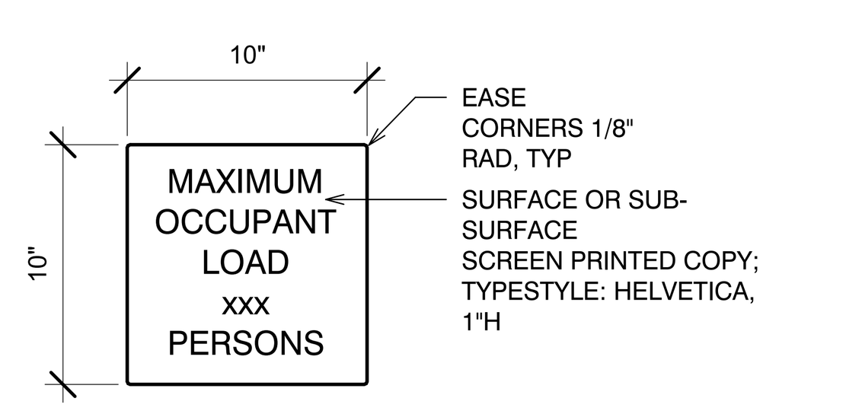
NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES
2. SEE DETAIL G2 FOR MOUNTING HEIGHT REQUIREMENTS
3. SEE DETAIL G3 FOR SIGN LOCATIONS RELATIVE TO DOORFOR VARIOUS DOOR CONDITIONS

S6 Signage
SCALE: 1 1/2" = 1'-0"



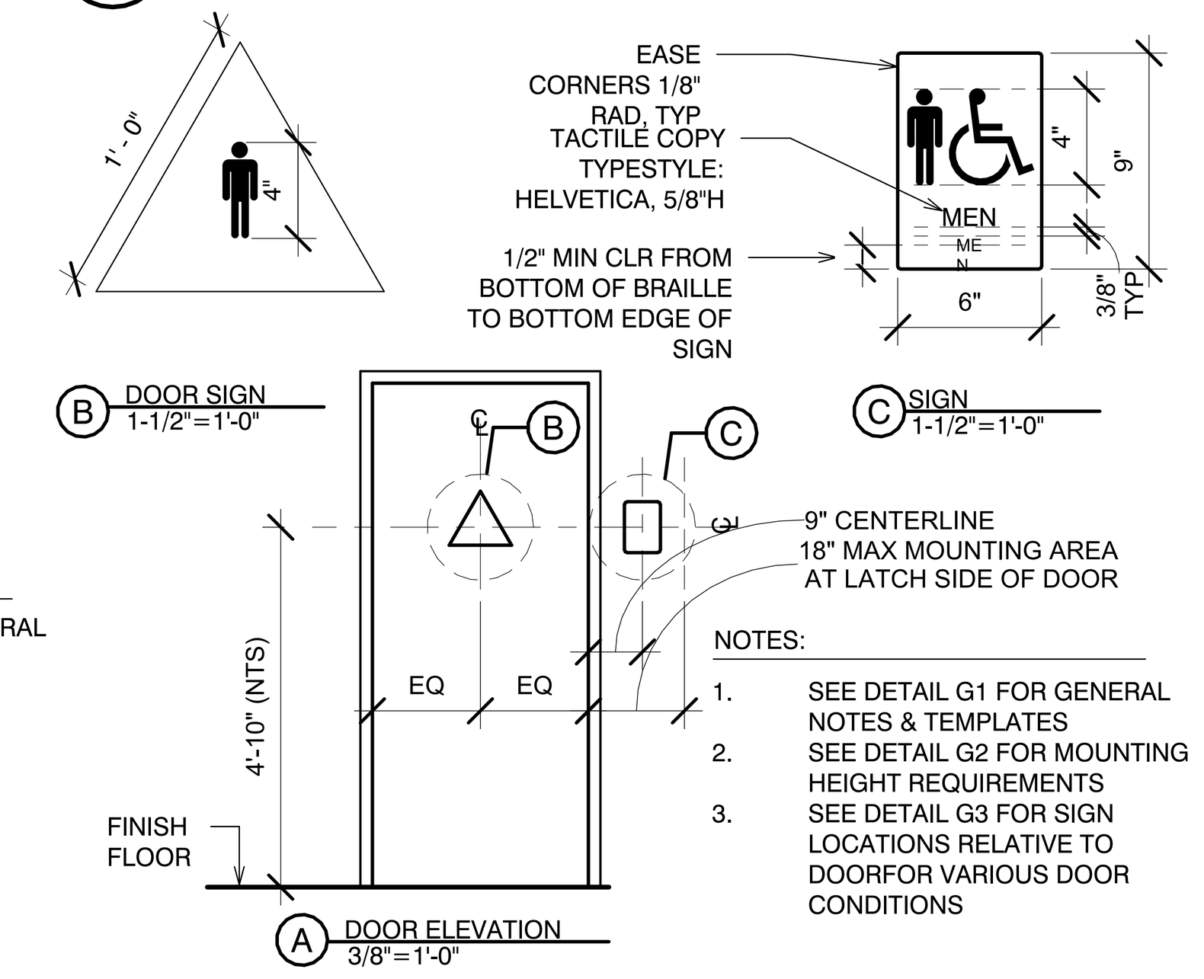
NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES
2. SEE DETAIL G2 FOR MOUNTING HEIGHT REQUIREMENTS
3. SEE DETAIL G3 FOR SIGN LOCATIONS RELATIVE TO DOORFOR VARIOUS DOOR CONDITIONS

S1 Signage
SCALE: 1 1/2" = 1'-0"



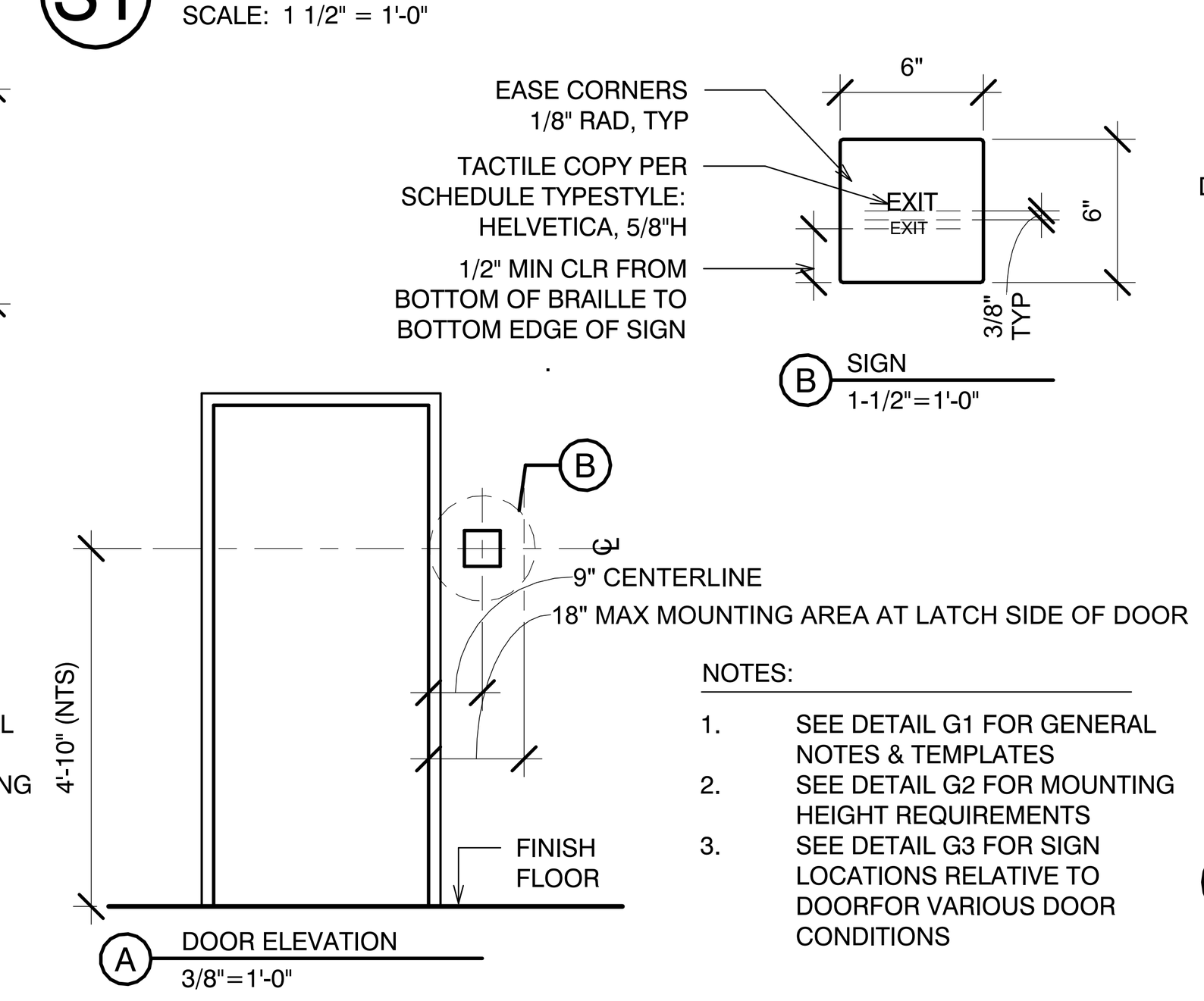
NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES

S12 Occupant Load Signage
SCALE: 1 1/2" = 1'-0"



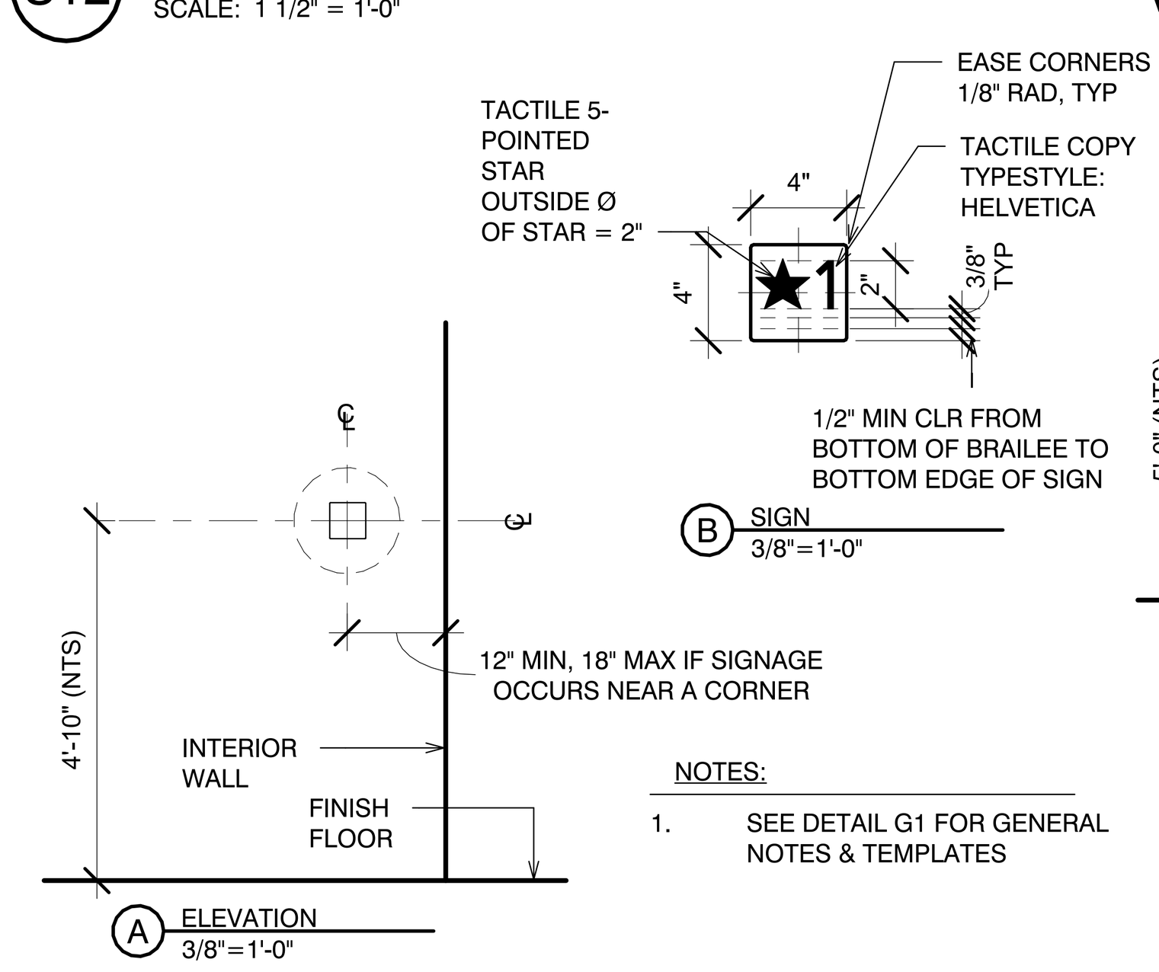
NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES
2. SEE DETAIL G2 FOR MOUNTING HEIGHT REQUIREMENTS
3. SEE DETAIL G3 FOR SIGN LOCATIONS RELATIVE TO DOORFOR VARIOUS DOOR CONDITIONS

S7 Signage
SCALE: 1 1/2" = 1'-0"



NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES
2. SEE DETAIL G2 FOR MOUNTING HEIGHT REQUIREMENTS
3. SEE DETAIL G3 FOR SIGN LOCATIONS RELATIVE TO DOORFOR VARIOUS DOOR CONDITIONS

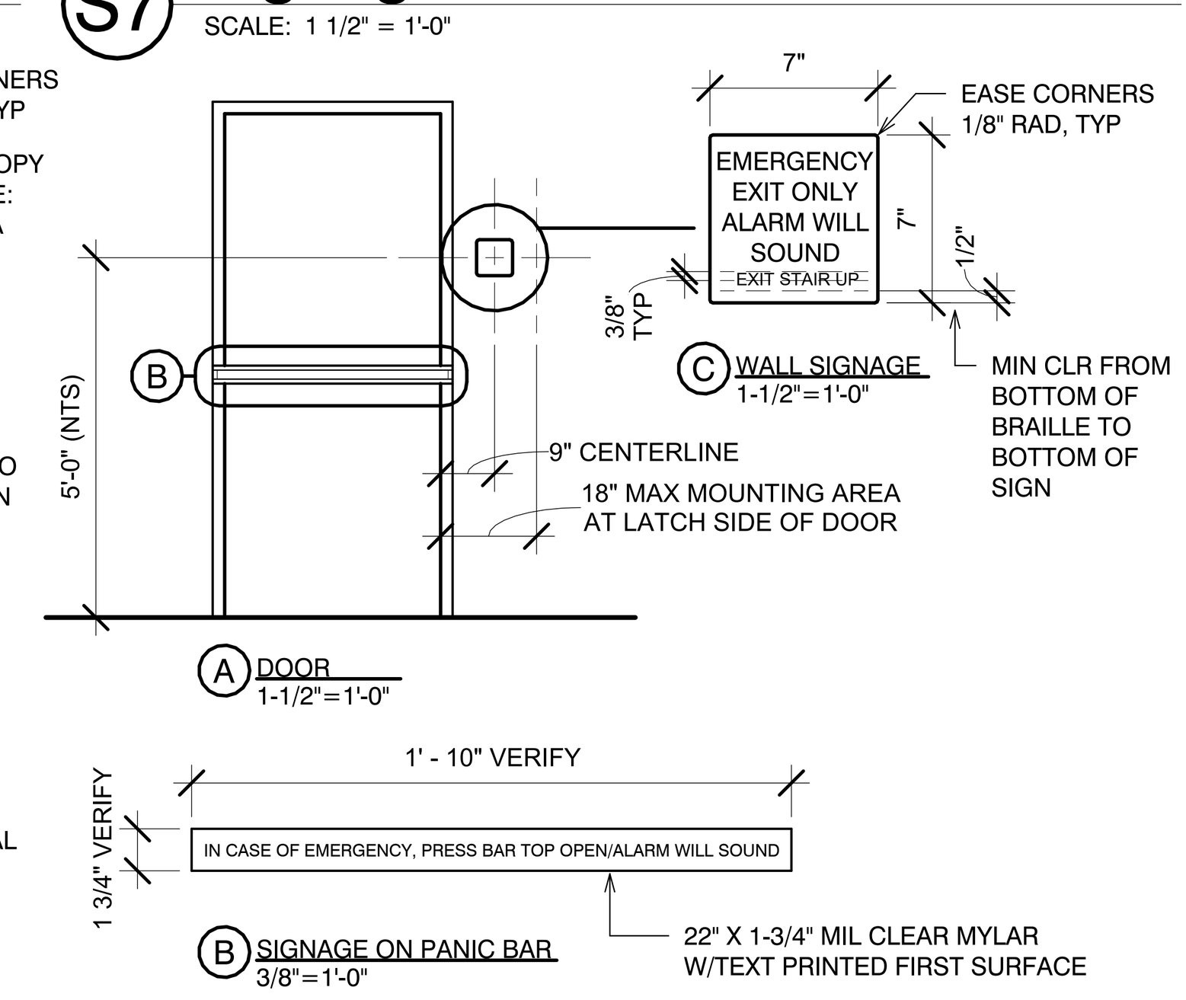
S2 Exit Signage
SCALE: 1 1/2" = 1'-0"



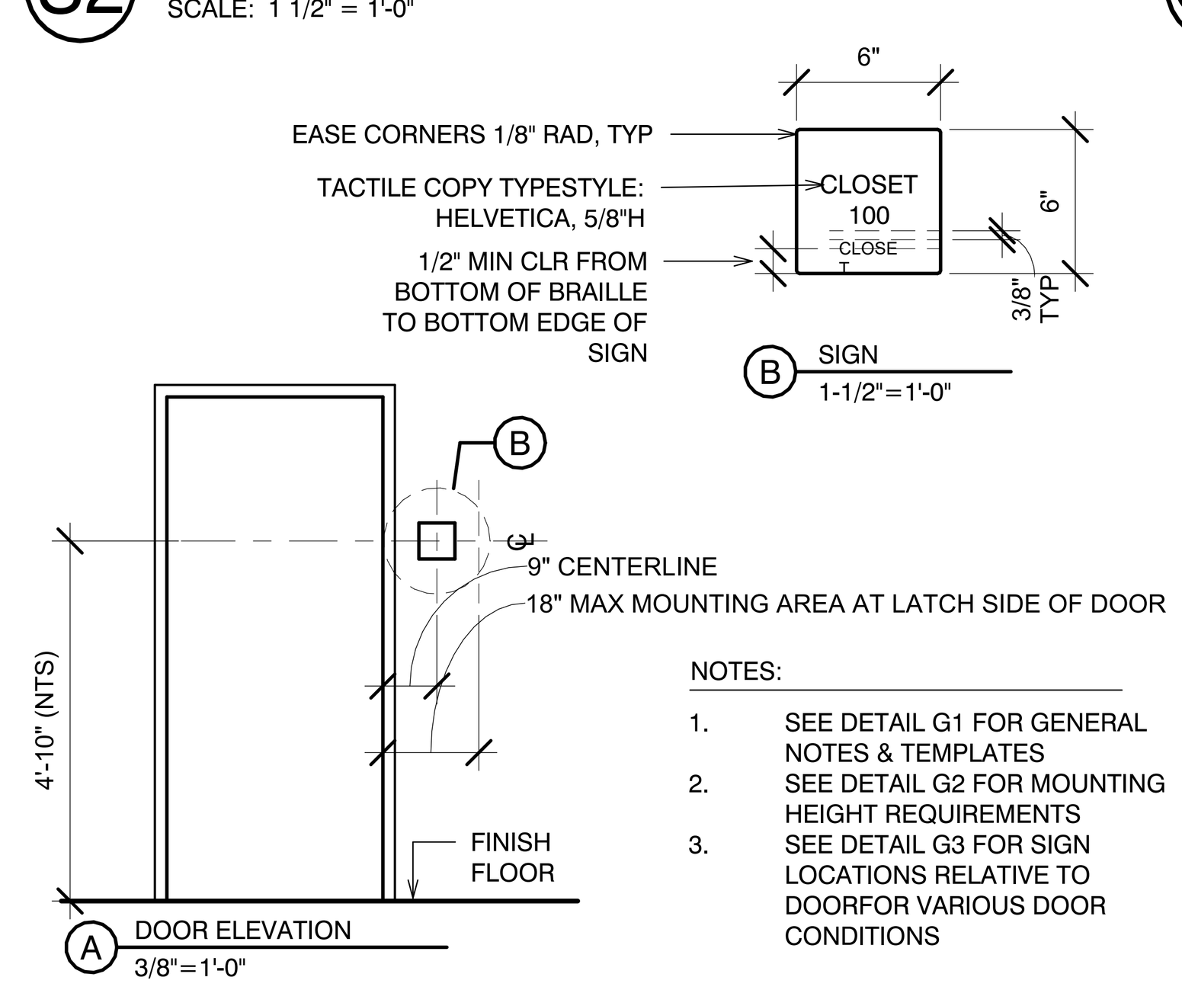
NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES

NOTE: INSTALL NEXT TO STAIRCASE AND ELEVATOR EACH LEVEL.

S13 Signage
SCALE: 1 1/2" = 1'-0"

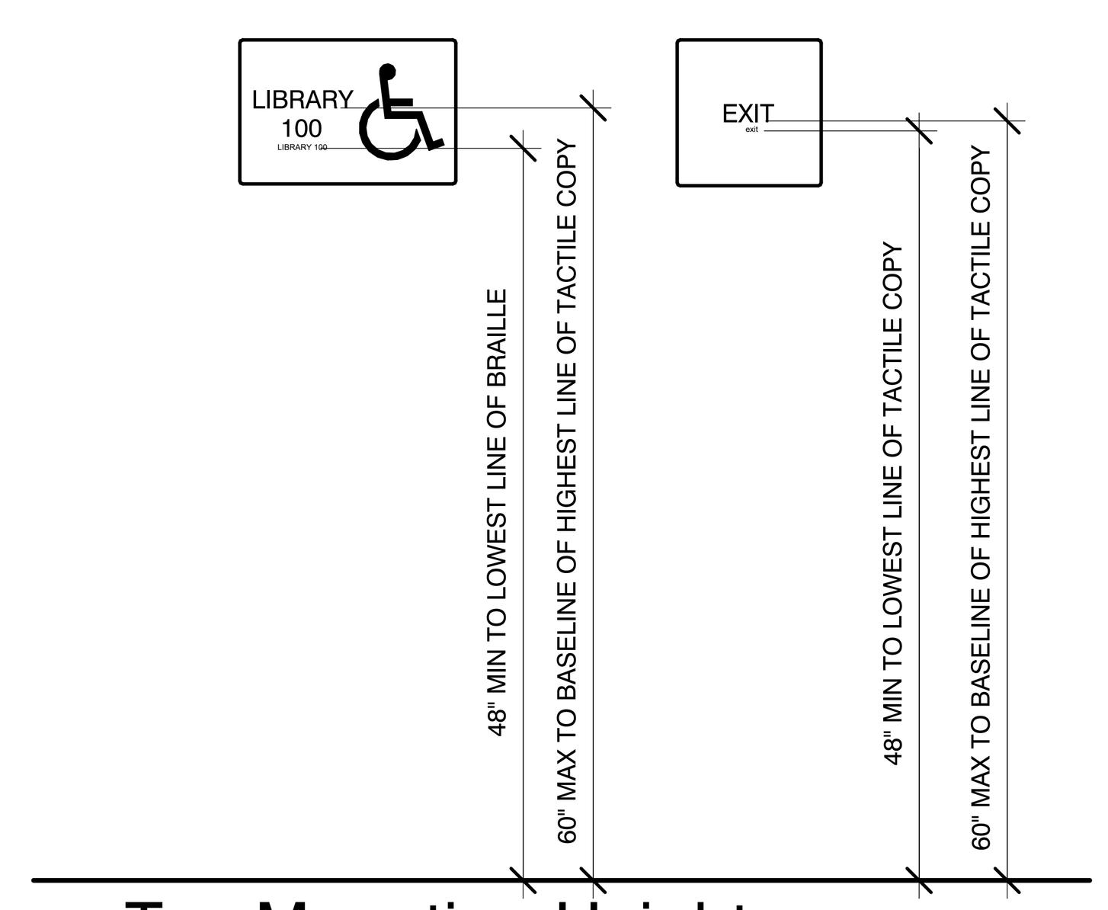


S8 Signage
SCALE: 1 1/2" = 1'-0"



NOTES:
1. SEE DETAIL G1 FOR GENERAL NOTES & TEMPLATES
2. SEE DETAIL G2 FOR MOUNTING HEIGHT REQUIREMENTS
3. SEE DETAIL G3 FOR SIGN LOCATIONS RELATIVE TO DOORFOR VARIOUS DOOR CONDITIONS

S3 Room Signage
SCALE: 1 1/2" = 1'-0"



G2 Typ Mounting Height Requirements
SCALE: 1 1/2" = 1'-0"

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KRUGER BENSEN ZIEMER ARCHITECTS, INC.
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TODD A JESPERSEN AIA
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JONATHAN D LEE AIA
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TODD A. JESPERSEN
No. C-25839
Ren. 06/30/2027
STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
△		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY
JONATHAN D LEE AIA

CHECKED BY
TODD A JESPERSEN AIA

ARCHITECT'S JOB NO
24004

DATE
07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO

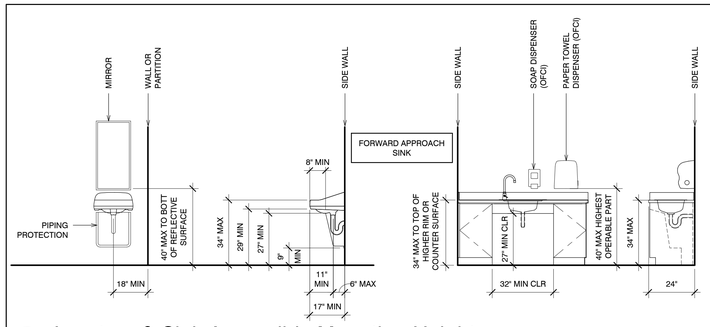
SHEET ____ OF ____

SHEET TITLE

SIGNAGE DETAILS

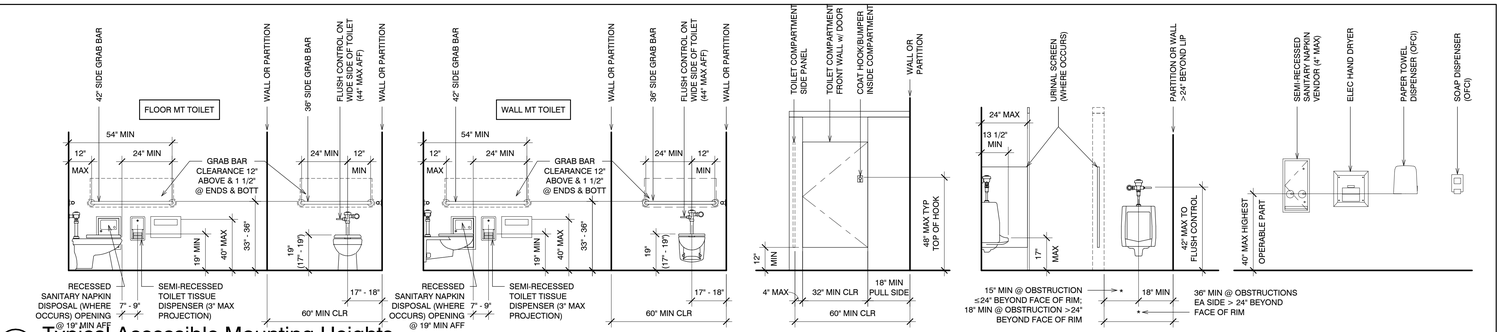
SHEET NO

A-701



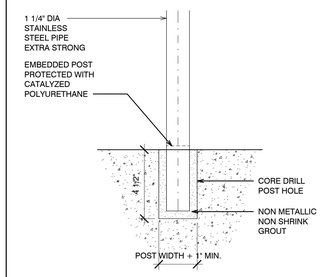
11 Lavatory & Sink Accessible Mounting Heights

SCALE: 3/8" = 1'-0"



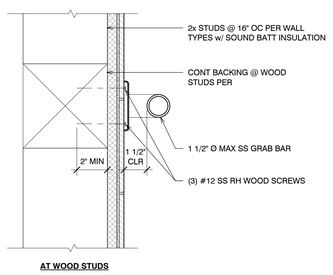
1 Typical Accessible Mounting Heights

SCALE: 3/8" = 1'-0"



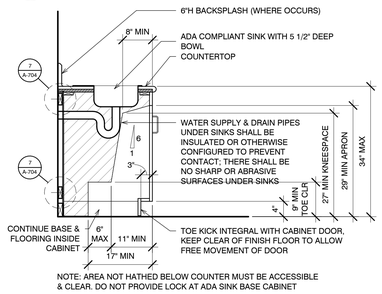
15 Handrail Post Footing

SCALE: 3" = 1'-0"



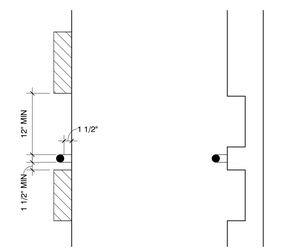
9 Grab Bar Mounting

SCALE: 3" = 1'-0"



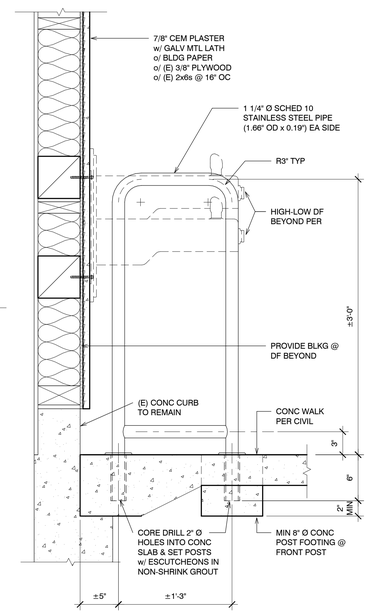
12 Typical Accessible Sink Base

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



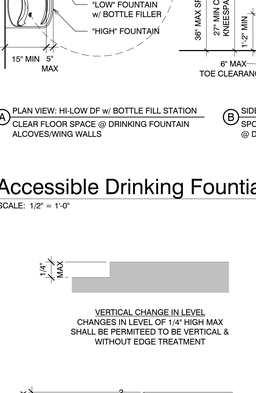
10 Accessible Grab Bar Mounting Clearance

SCALE: 1" = 1'-0"



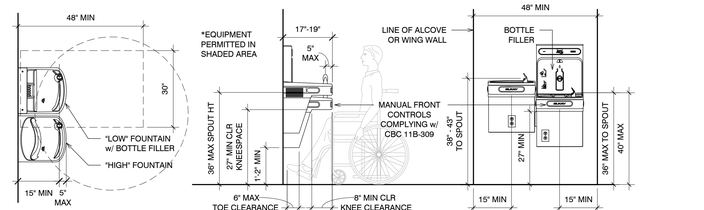
7 Safety Rails @ Drinking Fountain

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



6 Accessible Changes in Level

SCALE: 12" = 1'-0"



A PLAN VIEW: HI-LOW DF w/ BOTTLE FILL STATION
CLEAR FLOOR SPACE @ DRINKING FOUNTAIN ALCOVES/WING WALLS

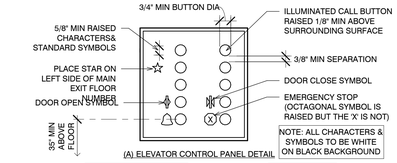
B SIDE VIEW: HI-LOW DF w/ BOTTLE FILL STATION
SPOUT HEIGHT & KNEE CLEARANCE @ DRINKING FOUNTAINS

C FRONT VIEW: HI-LOW DF w/ BOTTLE FILL STATION

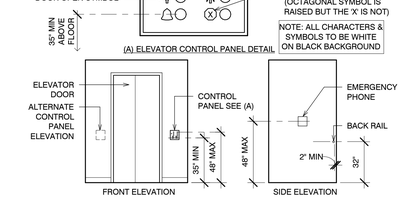
NOTE: SPOUTS @ DRINKING FOUNTAIN SHALL PROVIDE A FLOW OF WATER 4" HIGH MIN. WHERE SPOUTS ARE LOCATED <3" FROM THE FRONT FACE OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30° MAX; OTHERWISE, THE ANGLE OF WATER STREAM SHALL BE 15° MAX.

2 Accessible Drinking Fountian

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



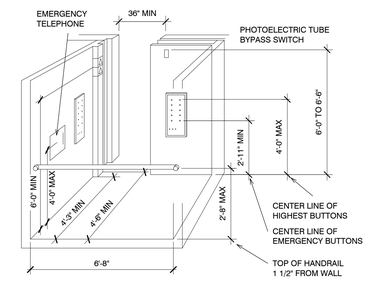
(A) ELEVATOR CONTROL PANEL DETAIL



(B) MAX INSTALLATION HEIGHTS ABOVE CAB FLOOR

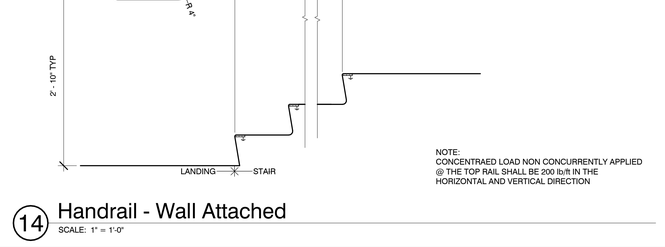
3 Elevator Control Panel

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



4 Typical Elevator Car Interior

SCALE: 3" = 1'-0"

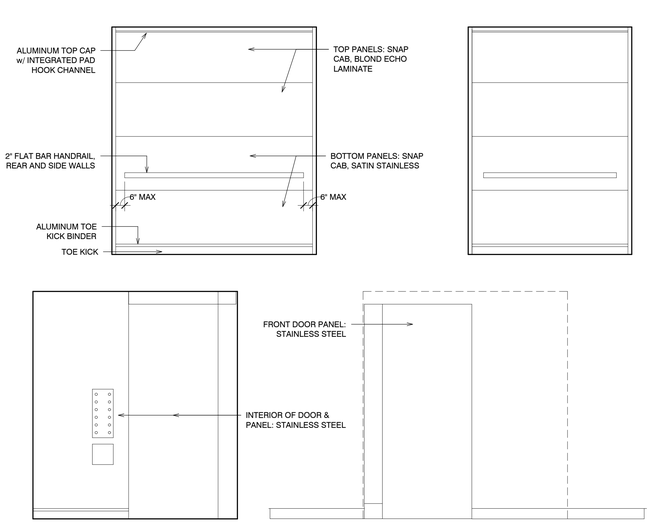


13 Handrail - Free-Standing

SCALE: 1" = 1'-0"

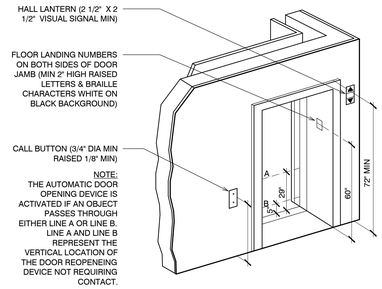
14 Handrail - Wall Attached

SCALE: 1" = 1'-0"



8 Elevator Elevations

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



5 Typical Elevator Door @ Landing

SCALE: 3" = 1'-0"

COUNTY of VENTURA Library

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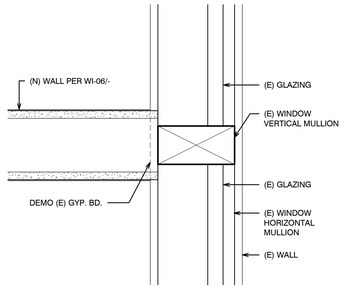
COUNTY DWG NO	SHEET	OF

SHEET TITLE

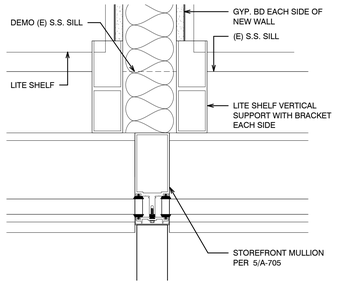
ACCESSIBILITY DETAILS

SHEET NO

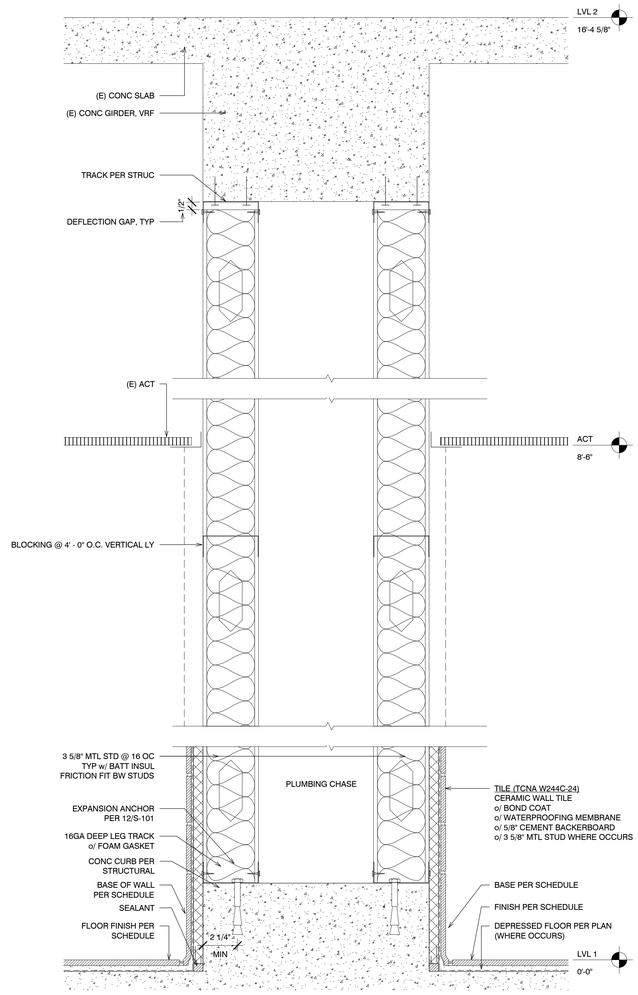
A-702



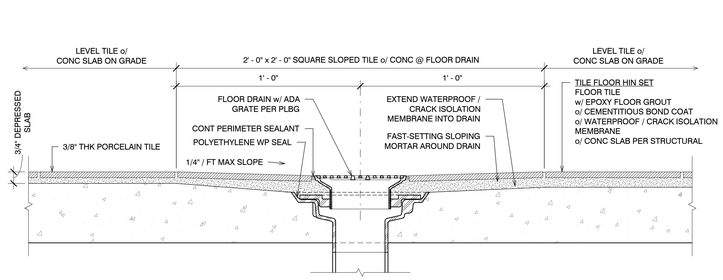
10 Wall to (E) Window
SCALE: 3" = 1'-0"



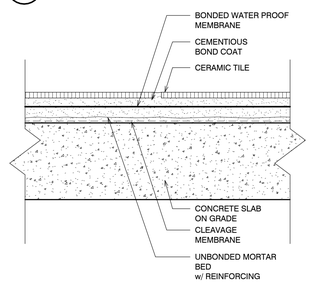
11 Wall to (N) Storefront
SCALE: 3" = 1'-0"



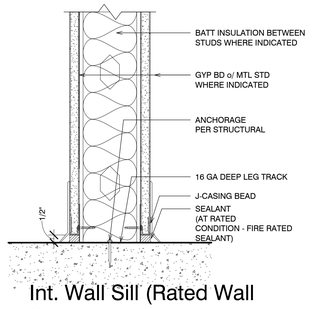
6 Pumbing Chase Wall Section
SCALE: 3" = 1'-0"



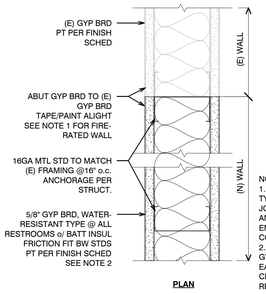
7 Sloped Tile Foor @ Drain, Typ
SCALE: 3" = 1'-0"



9 Ceramic Tile Floor (TCNA F121-15)
SCALE: 3" = 1'-0"



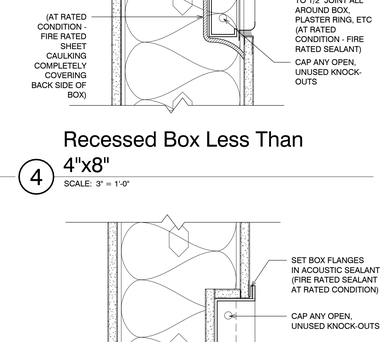
8 Int. Wall Sill (Rated Wall Similar)
SCALE: 3" = 1'-0"



PLAN

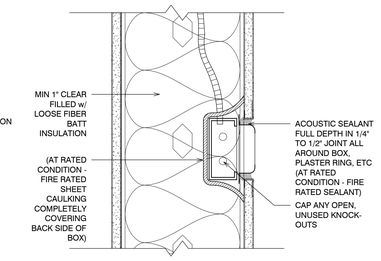
NOTE - FIRE RATED WALL:
1. APPLY 2 COATS OF SETTING TYPE JOINT COMPOUND TO JOINTS AND SCREW HEADS AND 2" WIDE PAPER TAPE EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.
2. (1) LAYER OF 5/8" TYPE "X" GYP BOARD APPLIED PARALLEL EACH SIDE OF STUD OR CEMENT BACKER BOARD @ RESTROOMS TILE WALL.

1 Plan Detail
SCALE: 3" = 1'-0"

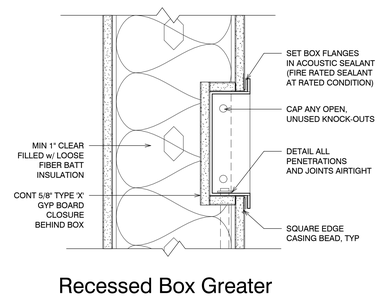


2 Interior Curb
SCALE: 3" = 1'-0"

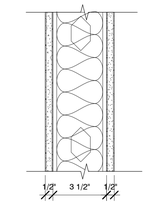
3 Base of Partition
SCALE: 3" = 1'-0"



Recessed Box Less Than 4"x8"
SCALE: 3" = 1'-0"

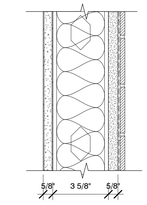


4 Recessed Box Greater Than 4"x8"
SCALE: 3" = 1'-0"



ONE LAYER 1/2" GYPSUM WALLBOARD APPLIED PARALLEL TO EACH SIDE OF 3 1/2" W (VRF W IN FIELD TO MATCH (E) WALL), 1-5/8" LEGS, 9/16" FOLDED BACK RETURNS,16GA GALV STEEL STUD, 16" o.c. w/ 1" TYPE S DRYWALL SCREW, 8" o.c. AT VERTICAL JOINTS, GLASS FIBER INSULATION FRICTION FIT IN STUD SPACE TO MATCH STUD WIDTH. APPLY 2 COATS OF JOINT COMPOUND TO JOINTS AND SCREW HEADS AND 2" WIDE PAPER TAPE EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS.

WI-06 Wall Assembly
SCALE: 3" = 1'-0"



ONE LAYER 5/8" GYPSUM WALLBOARD TYPE 'X' APPLIED PARALLEL TO 1 SIDE OF 3 5/8" W (VRF W IN FIELD TO MATCH (E) WALL), 1-5/8" LEGS, 9/16" FOLDED BACK RETURNS,16GA GALV STEEL STUD, 16" o.c. w/ 1" TYPE S DRYWALL SCREW, 8" o.c. AT VERTICAL JOINTS, GLASS FIBER INSULATION FRICTION FIT IN STUD SPACE TO MATCH STUD WIDTH. APPLY 2 COATS OF JOINT COMPOUND TO JOINTS AND SCREW HEADS AND 2" WIDE PAPER TAPE EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS. THIN SET TILE FINISH o/ BOND COAT o/ WATERPROOFING MEMBRANE o/ 5/8" CEMENT BACKER BOARD TO RESTROOM SIDE (MOISTURE RESISTANT @ ALL RESTROOMS, SEE FLOOR PLANS)

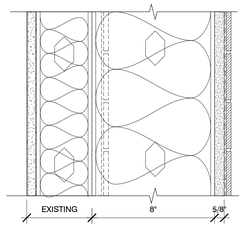
WR-01 Wall Assembly
SCALE: 3" = 1'-0"

UL DESIGN #U495-1HR

ONE LAYER 5/8" CEMENT BACKER BOARD (MOISTURE RESISTANT @ ALL RESTROOMS, SEE FLOOR PLANS) APPLIED PARALLEL TO EACH SIDE OF 8" W, 1-5/8" LEGS, 9/16" FOLDED BACK RETURNS,16GA GALV STEEL STUD, 16" o.c. w/ 1" TYPE S DRYWALL SCREW, 8" o.c. AT VERTICAL JOINTS, 8" GLASS FIBER INSULATION FRICTION FIT IN STUD SPACE. THIN SET TILE FINISH o/ BOND COAT o/ WATERPROOFING MEMBRANE o/ BACKER BOARD WHERE INDICATED

WI-03 Wall Assembly
SCALE: 3" = 1'-0"

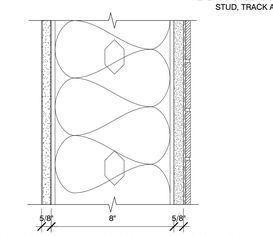
INTERIOR WALL
REFER TO SHEET S-901 FOR TYPICAL STUD, TRACK AND FASTENERS



ONE LAYER 5/8" CEMENT BACKER BOARD (MOISTURE RESISTANT @ ALL RESTROOMS, SEE FLOOR PLANS) APPLIED PARALLEL TO RESTROOM SIDE OF 8" W, 1-5/8" LEGS, 9/16" FOLDED BACK RETURNS,16GA GALV STEEL STUD, 16" o.c. w/ 1" TYPE S DRYWALL SCREW, 8" o.c. AT VERTICAL JOINTS, 8" GLASS FIBER INSULATION FRICTION FIT IN STUD SPACE. THIN SET TILE FINISH o/ BOND COAT o/ WATERPROOFING MEMBRANE o/ BACKER BOARD WHERE INDICATED. REMOVE (E) TILE FINISH AND BACKER BOARD BEFORE INSTALLING NEW WALL.

WI-04 Wall Assembly
SCALE: 3" = 1'-0"

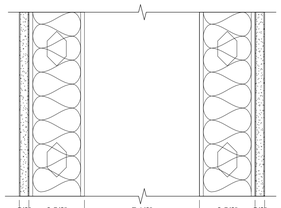
INTERIOR WALL
REFER TO SHEET S-901 FOR TYPICAL STUD, TRACK AND FASTENERS



ONE LAYER 5/8" GYPSUM WALLBOARD TYPE 'X' APPLIED PARALLEL TO 1 SIDE OF 3 5/8" W (VRF W IN FIELD TO MATCH (E) WALL), 1-5/8" LEGS, 9/16" FOLDED BACK RETURNS,16GA GALV STEEL STUD, 16" o.c. w/ 1" TYPE S DRYWALL SCREW, 8" o.c. AT VERTICAL JOINTS, 8" GLASS FIBER INSULATION FRICTION FIT IN STUD SPACE. THIN SET TILE FINISH o/ BOND COAT o/ WATERPROOFING MEMBRANE o/ BACKER BOARD WHERE INDICATED

WI-05 Wall Assembly
SCALE: 3" = 1'-0"

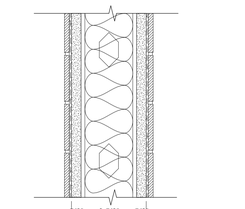
UL DESIGN #U495-1HR



ONE LAYER 5/8" GYPSUM WALLBOARD (MOISTURE RESISTANT @ ALL RESTROOMS, SEE FLOOR PLANS) APPLIED PARALLEL TO EACH SIDE OF (2) 3 5/8" W, 1-5/8" LEGS, 9/16" FOLDED BACK RETURNS,16GA GALV STEEL STUD, 16" o.c. w/ 1" TYPE S DRYWALL SCREW, 8" o.c. AT VERTICAL JOINTS, 3 5/8" GLASS FIBER INSULATION FRICTION FIT IN BOTH STUD SPACES, 7 1/2" GAP BETWEEN STUDS.

WI-01 Wall Assembly
SCALE: 3" = 1'-0"

INTERIOR WALL
REFER TO SHEET S-901 FOR TYPICAL STUD, TRACK AND FASTENERS



ONE LAYER 5/8" CEMENT BACKER BOARD (MOISTURE RESISTANT @ ALL RESTROOMS, SEE FLOOR PLANS) APPLIED PARALLEL TO EACH SIDE OF 3 5/8" W, 1-5/8" LEGS, 9/16" FOLDED BACK RETURNS,16GA GALV STEEL STUD, 16" o.c. w/ 1" TYPE S DRYWALL SCREW, 8" o.c. AT VERTICAL JOINTS, 3 5/8" GLASS FIBER INSULATION FRICTION FIT IN STUD SPACE. THIN SET TILE FINISH o/ BOND COAT o/ WATERPROOFING MEMBRANE WHERE INDICATED

WI-02 Wall Assembly
SCALE: 3" = 1'-0"

INTERIOR WALL
REFER TO SHEET S-901 FOR TYPICAL STUD, TRACK AND FASTENERS

COUNTY of VENTURA Library

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NO	REVISION	DATE

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ARCHITECT'S JOB NO 24004	DATE 07/11/2025

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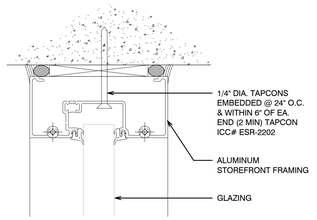
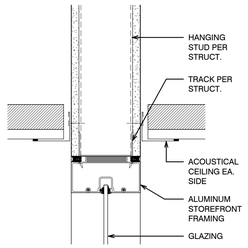
SHEET TITLE
WALL TYPES & MISC DETAILS

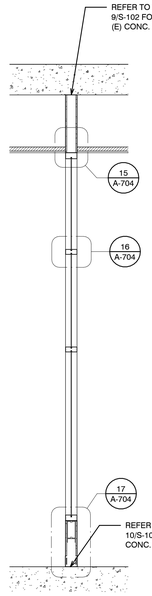
SHEET NO
A-703

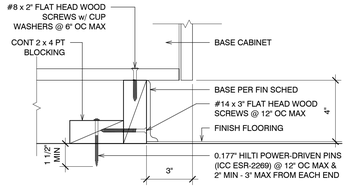


20 2nd Floor Entrance Storefront - Head
SCALE: 6" = 1'-0"

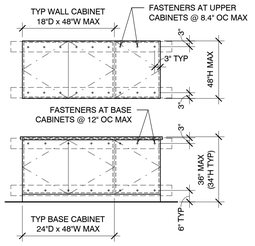


15 Interior Storefront - Head
SCALE: 3" = 1'-0"



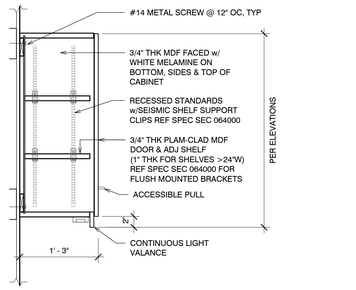


6 Cabinet Base Anchorage
SCALE: 3" = 1'-0"

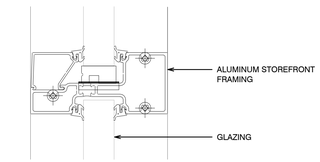


NOTES:
1. FASTENERS TO BE 3" FRM TOP, BOTTOM, & SIDES OF EACH CABINET UNLESS NOTED OTHERWISE. ADDL FASTENERS TO BE SPACED EVENLY AS NOTED ABOVE.
2. SEE FLOOR PLANS & INT ELEVS FOR CABINET CONFIGURATIONS & DIMENSIONS.
3. STUDS OF WALLS BACKING CABINETS SHALL RUN FROM SLAB TO STRUCTURE ABOVE.

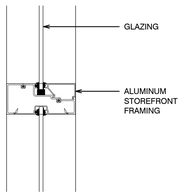
5 Typ. Cabinet Backing/Anchorage
SCALE: 3/8" = 1'-0"



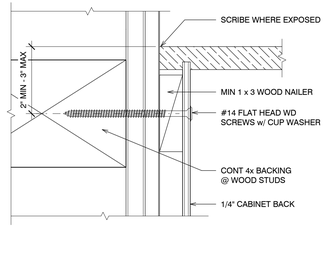
1 Plam Clad Wall Cabinet
SCALE: 1" = 1'-0"



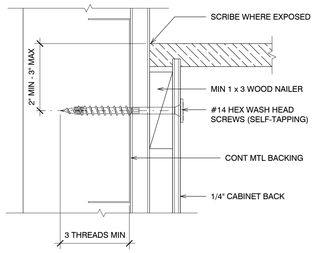
21 2nd Floor Entrance Storefront - Horizontal
SCALE: 6" = 1'-0"



16 Interior Storefront - Horizontal
SCALE: 3" = 1'-0"



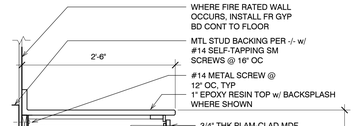
AT WOOD STUDS



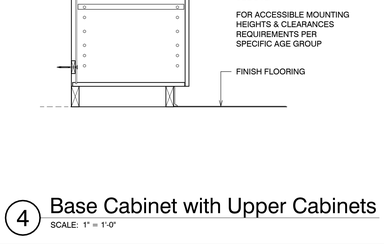
AT METAL STUDS

14 Interior Storefront - Section
SCALE: 1/2" = 1'-0"

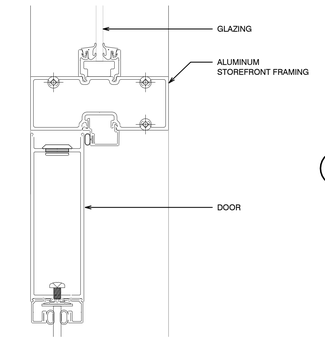
7 Top & Bottom Cabinet Anchorage
SCALE: 6" = 1'-0"



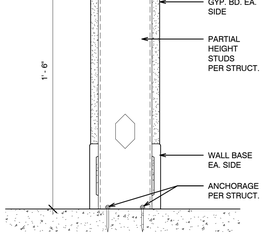
2 Plam Clad Base Cabinet
SCALE: 1" = 1'-0"



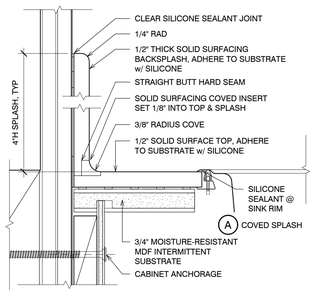
3 Plam Clad Base Cabinet w/ Door
SCALE: 1" = 1'-0"

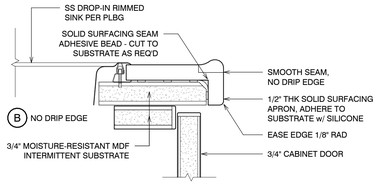


23 2nd Floor Entrance Storefront Door - Head
SCALE: 6" = 1'-0"

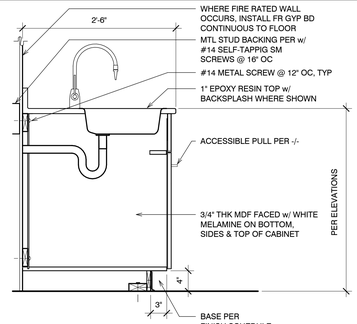


17 Interior Storefront - Sill
SCALE: 3" = 1'-0"

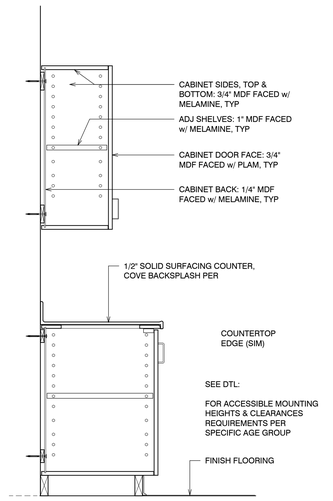




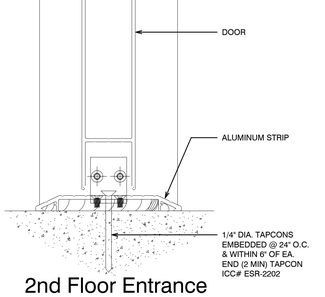
10 Solid Surface Counter w/ Drop-In Rimmed Sink
SCALE: 6" = 1'-0"



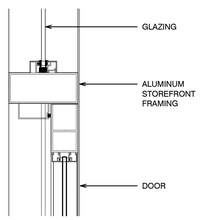
9 Plam Clad Base Cabinet w/ Sink
SCALE: 1" = 1'-0"



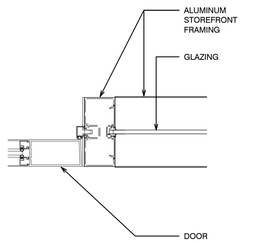
4 Base Cabinet with Upper Cabinets
SCALE: 1" = 1'-0"



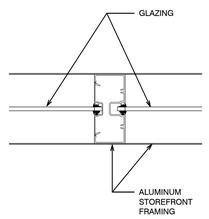
24 2nd Floor Entrance Storefront Door - Sill
SCALE: 6" = 1'-0"



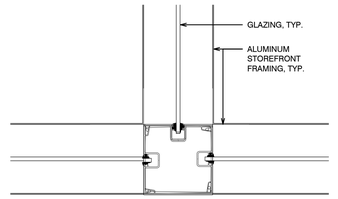
19 Interior Storefront - Door Header
SCALE: 3" = 1'-0"



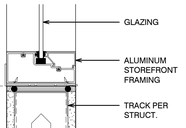
13 Interior Storefront - Jamb @ Door
SCALE: 3" = 1'-0"



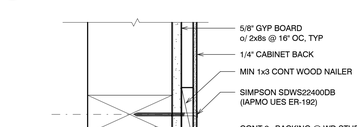
12 Interior Storefront - Vertical
SCALE: 3" = 1'-0"



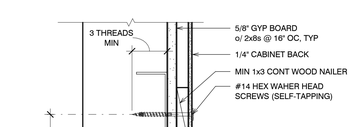
11 Interior Storefront - Corner Post
SCALE: 3" = 1'-0"



WOOD STUD AT CONC CURB



WOOD STUD w/o CONC CURB



METAL STUD w/o CONC CURB

8 Cabinet Anchorage @ Base
SCALE: 3" = 1'-0"

COUNTY of VENTURA Library

PUBLIC VENTURA COUNTY WORKS

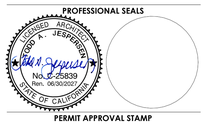
ENGINEERING SERVICES

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
199 FIGUEROA STREET, SUITE 100A
VENTURA, CA 93001
TELEPHONE (805) 963-1726

TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS



PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO		BP25-02229
NO	REVISION	DATE

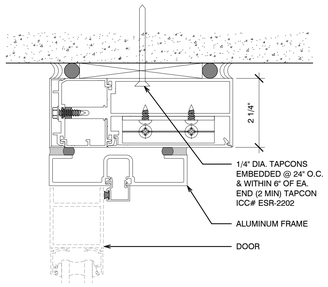
PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA
PRINCINPAL-IN-CHARGE: TODD A. JESPERSEN AIA
DRAWN BY: JONATHAN D LEE AIA
CHECKED BY: TODD A JESPERSEN AIA
ARCHITECT'S JOB NO: 24004
DATE: 07/11/2025
PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

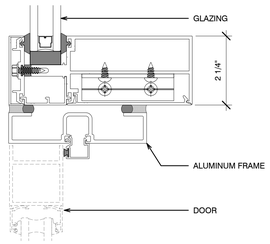
651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER: CP26-12
COUNTY PROJECT NUMBER: P6T24008
COUNTY DWG NO
SHEET ____ OF ____
SHEET TITLE: INTERIOR DETAILS

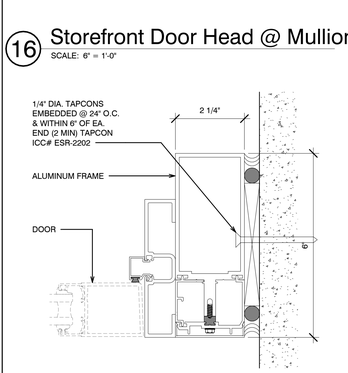
SHEET NO: A-704



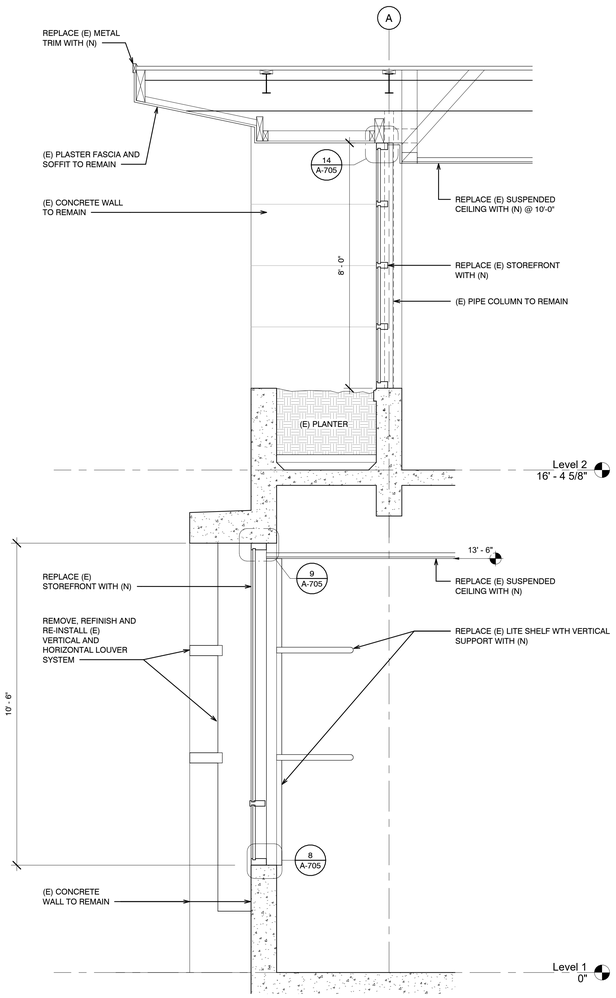
15 Storefront Door Head
SCALE: 6" = 1'-0"



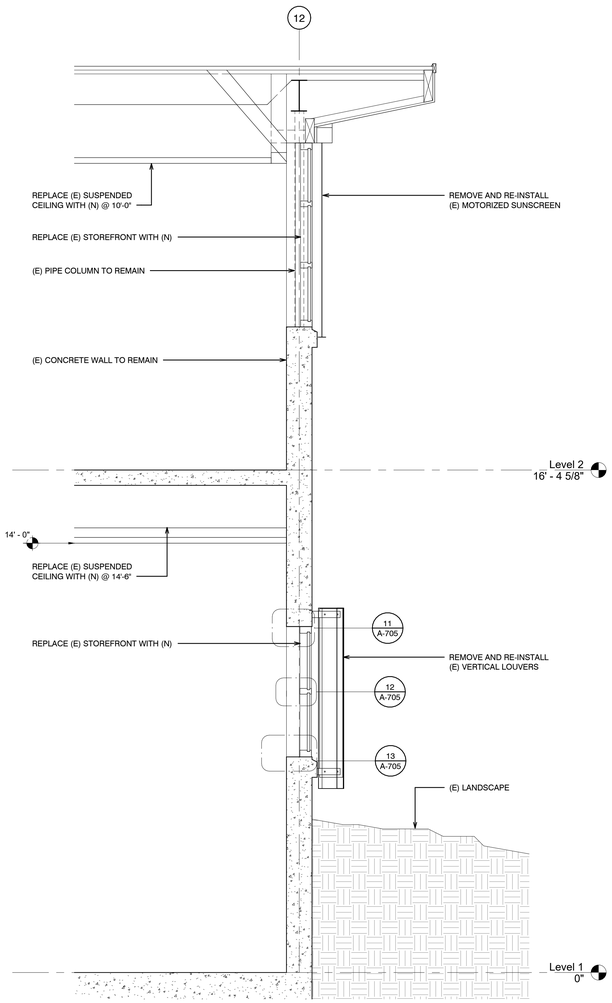
16 Storefront Door Head @ Mullion
SCALE: 6" = 1'-0"



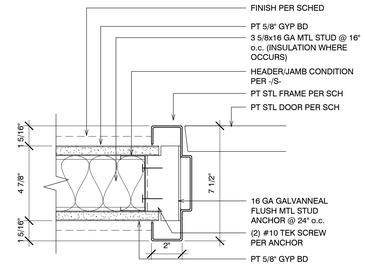
17 Storefront Door Jamb
SCALE: 6" = 1'-0"



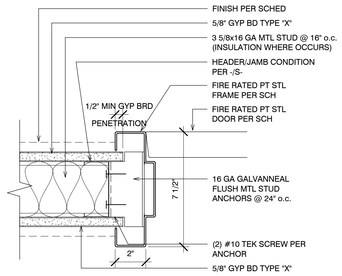
10 Wall Section - South Wall
SCALE: 1/2" = 1'-0"



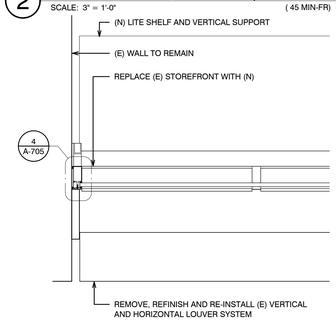
6 Wall Section - East Wall
SCALE: 1/2" = 1'-0"



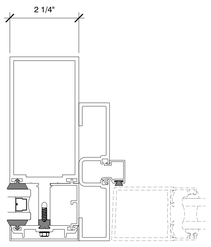
1 Door Detail @ Jamb (Head Sim)
SCALE: 3" = 1'-0"



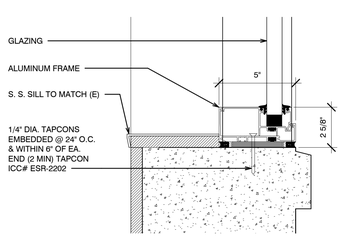
2 Door Detail @ Jamb (Head Sim)
SCALE: 3" = 1'-0" (45 MIN-FR)



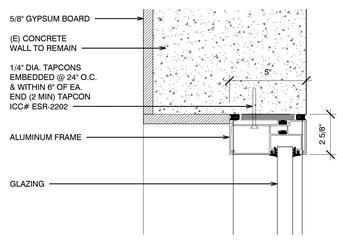
3 Storefront Plan - South Wall
SCALE: 3/4" = 1'-0"



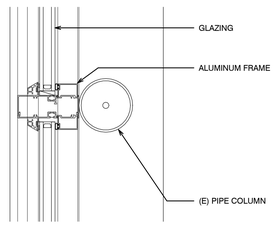
18 Storefront Door Jamb @ Mullion
SCALE: 6" = 1'-0"



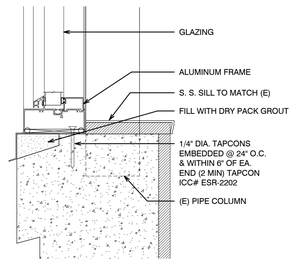
13 Storefront Sill - East Wall
SCALE: 3" = 1'-0"



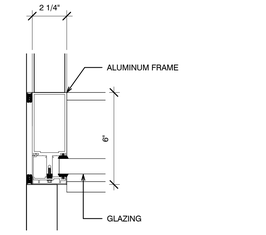
11 Storefront Head - East Wall
SCALE: 3" = 1'-0"



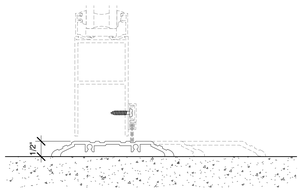
7B Storefront Mullion - South Wall 2
SCALE: 3" = 1'-0"



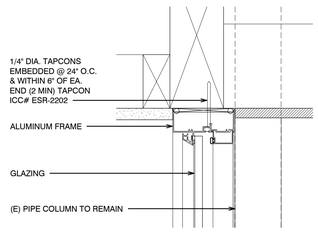
7A Storefront Sill - South Wall 2
SCALE: 3" = 1'-0"



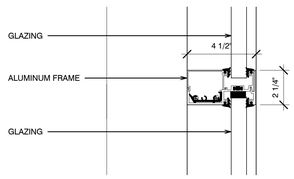
4 Storefront Jamb - South Wall
SCALE: 3" = 1'-0"



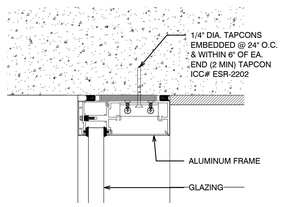
19 Storefront Door Sill
SCALE: 6" = 1'-0"



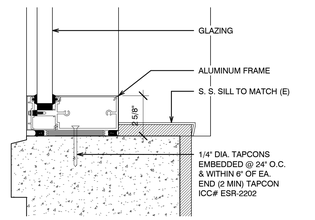
14 Storefront Head - South Wall 2
SCALE: 3" = 1'-0"



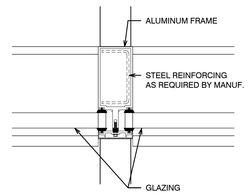
12 Storefront Horizontal - East Wall
SCALE: 3" = 1'-0"



9 Storefront Head - South Wall
SCALE: 3" = 1'-0"



8 Storefront Sill - South Wall
SCALE: 3" = 1'-0"



5 Storefront Mullion - South Wall
SCALE: 3" = 1'-0"

COUNTY of VENTURA Library

PUBLIC VENTURA COUNTY WORKS

ENGINEERING SERVICES

KBZ

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
199 FIGUEROA STREET, SUITE 100A
VENTURA, CA 93001
TELEPHONE (805) 963-1726

TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

LICENSED ARCHITECT TODD A. JESPERSEN No. C-25839 Ren. 08/30/2027 STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO	BP25-02229	
NO	REVISION	DATE
△		

PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA
PRINCINPAL-IN-CHARGE: TODD A. JESPERSEN AIA

DRAWN BY	CHECKED BY
JONATHAN D LEE AIA	TODD A JESPERSEN AIA
ARCHITECT'S JOB NO: 24004	DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

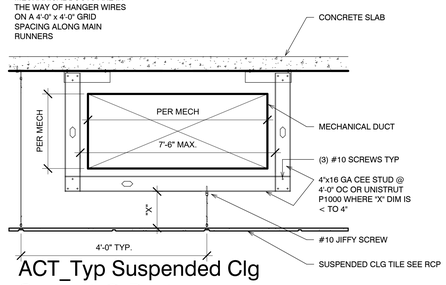
COUNTY SPEC NUMBER: CP26-12
COUNTY PROJECT NUMBER: P6T24008
COUNTY DWG NO | SHEET | OF

SHEET TITLE

DOOR & STOREFRONT DETAILS

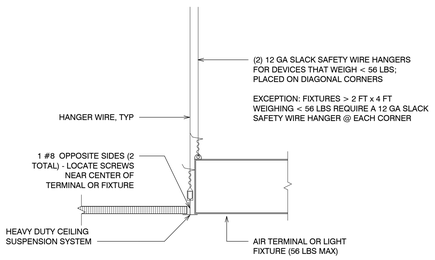
SHEET NO

A-705



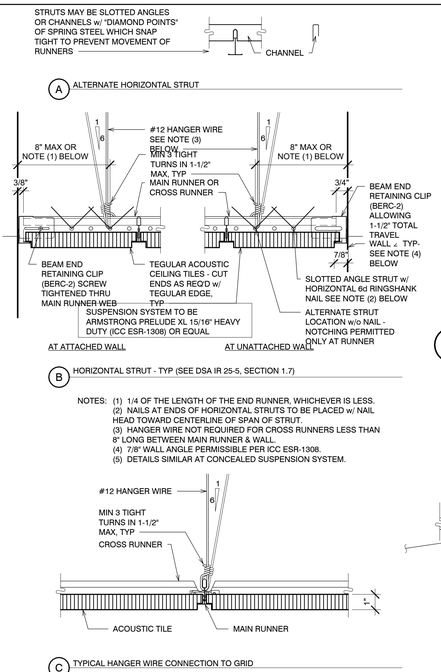
12 ACT_Typ Suspended Clg Support @ Duct

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



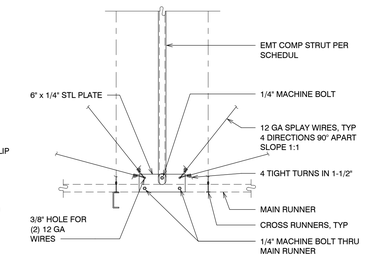
13 Fixture Support Detail

SCALE: 3" = 1'-0"



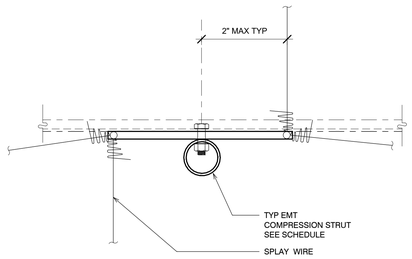
8 ACT Ceiling Hanger Details

SCALE: 3" = 1'-0"



3 ACT Splay Wire Detail

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



4 Splay Brace - Plan View

SCALE: 3" = 1'-0"

1. CEILING SYSTEM GENERAL NOTES:

1.01 Ceiling system components shall comply with ASTM ASTM C635 & Section 5.1 of ASTM E580.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.

1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer's Name:	Armstrong Prelude XL	or	USG Donn DX/DXL
Product Evaluation Report Type & Number:	ICC ESR-1508	or	ICC ESR-1222
Manufacturer's Model Number - main runner:	XL7301	or	DX-26
Manufacturer's Model Number - cross runner (4ft):	XL7341	or	DX-424
Manufacturer's Model Number - cross runner (2ft):	XL7328	or	DX-216

1.04 Seismic Wall Clip: Not Used

1.05 Ceiling panel shall not support any light fixtures, air terminals or devices.

1.06 For framing installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels & the wall on the sides of the ceiling which are free to slip.For all other ceiling panels types, provide 3/4" clearance between the ceiling grid runners/members & walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS:

2.01 Ceiling wire shall be Class 1 zinc coated (glavanized) carbon steel conforming to ASTM A641. Wire shall be #12 gage (0.106" diameter) with soft temper & minimum tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud & track compression struts/posts) shall conform to ASTM 653, or other equilvalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100). Material 43 mil (18 guage) & light shall have minimum yield strength of 33 ksi. Material 54 (16 gauge) & heavier shall have a minimum yield strength of 50 ksi.

2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength of 30ksi & minimum ultimate strength of 48 ksi.

3. ATTACHMENT OF HANGERS & BRACING WIRES:

3.01 Separate all ceiling hanger & bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger & bracing wires shall not attach to or bend around obstructions including, but not limited to, piping,ductwork, conduit, & equipment.

3.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength of 30ksi & minimum ultimate strength of 48 ksi.

3.04 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

3.05 Slack safety wires shall be considered hanger wires for installation & testing requirements.

3.06 Hanger & bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g. bracing wire ceiling clips must be bent as shown in the details & rotated as required to align closely with the direction of the wire, screw eyes in woodmust be installed so they align closely with the direction of the wire, etc.)

4. FASTENERS & WELDING:

4.01 Sheet metal screws shall comply with ASTM C1513, ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion Anchors: Not Used.

4.03 Power-Actuated Fasteners: Not Used.

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.

4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING:

5.01 All field testing must be performed in the presence of the project inspector.

5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10%. Power actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50% in accordance with CBC Section 1910.5.

6. LUMINAIRES:

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580, Section 5.3.1.

6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Max spacing between supports shall not exceed 8 feet.

6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners & shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.

6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above. Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.

6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. SERVICES WITHIN THE CEILING:

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.

7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.

7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING:

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

9. LATERAL FORCE BRACE ASSEMBLY SPACING: Lateral force bracing assemblies shall be spaced perTable 1 for all values of the component importance factor (I_p) of the ceiling.

TABLE 1 - LATERAL FORCE BRACE ASSEMBLY SPACING

	Brace Assembly Spacing (ft)	
Design Spectral Acceleration Parameter, S_{DS}	z/h < 0.5[a]	z/H < 0.5[a,b]
$S_{DS} \leq 1.15$	12' x 12'	12' x 12'
$1.15 \leq S_{DS} \leq 1.73$	12' x 12'	8' x 12'
$S_{DS} \leq 1.73$	8' x 12'	8' x 8'

a. Where, as defined in ASCE 7, Section 13.3.1:
z = height in structure of point of attachment of ceiling with respect to the base
h = average roof height of the structure with respect to the base

b. It shall be permitted to use the brace assembly spacing for z/h > 0.5 for the full building height.

9.01 Brace Assembly Spacing: 8' x 8' max (S_{DS} = 1.795; SDS > 1.73; z/h > 0.5)

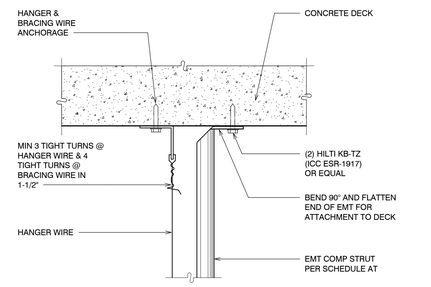
9.02 There shall be a brace assembly a distance of not more than one-half (1/2) of the spacing listed in Table 1 above from each surrounding wall, expansion joint, & edge of any ceiling vertical offset.

1 Ceiling General Notes

SCALE: 12" = 1'-0"

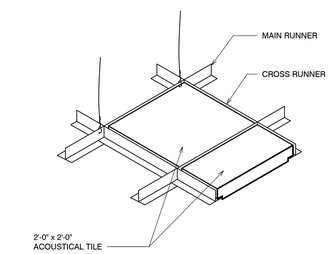
5 ACT Compression Strut, Typ

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



10 ACT Compression Strut Anchor @ Concrete Deck

SCALE: 3" = 1'-0"



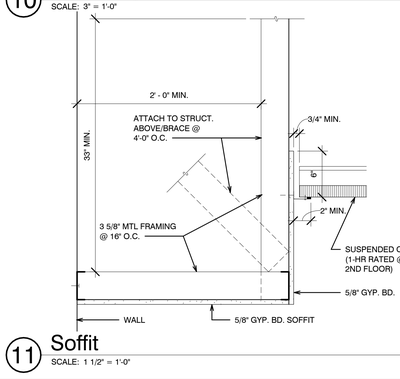
6 ACT Suspended Acoustical Tile

SCALE: 6" = 1'-0"

ELECTRICAL METALLIC TUBING (EMT)				
SIZE	I.D.	O.D.	r	MAX LENGTH
1/2"	0.622	0.706	.23	46"
3/4"	0.824	0.922	.31	62"
1"	1.049	1.163	.39	78"
1-1/4"	1.380	1.510	.51	102"
1-1/2"	1.610	1.740	.59	118"
2"	2.067	2.197	.75	150"

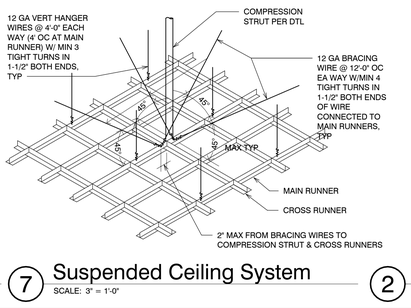
2 ACT_Compression Strut Schedule

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



11 Soffit

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



7 Suspended Ceiling System

SCALE: 3" = 1'-0"

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BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER: DEVI NALLAMALA

PRINCIPAL-IN-CHARGE: TODD A. JESPERSEN AIA

DRAWN BY: JONATHAN D LEE AIA | CHECKED BY: TODD A JESPERSEN AIA

ARCHITECT'S JOB NO: 24004 | DATE: 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER: CP26-12

COUNTY PROJECT NUMBER: P6T24008

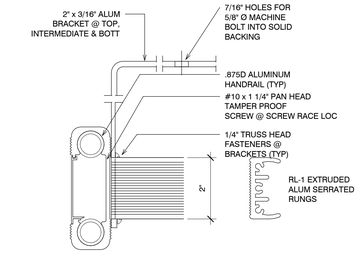
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE

CEILING DETAILS

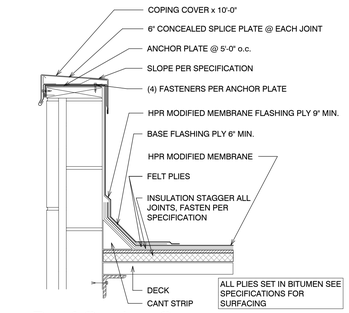
SHEET NO

A-706



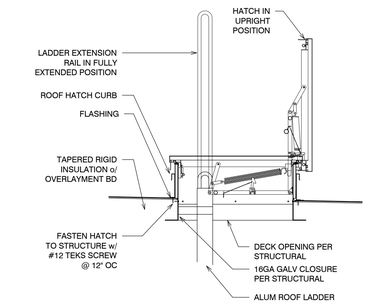
6 Roof Hatch Rung

SCALE: 6" = 1'-0"



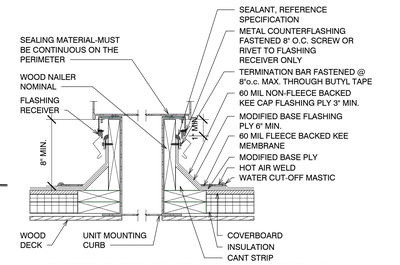
1 Roof Coping Cap

SCALE: 6" = 1'-0"



8 R_Flashing at Pipe

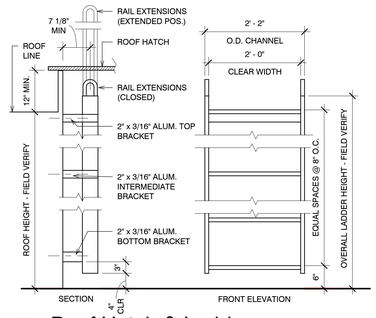
SCALE: 3" = 1'-0"



NOTE: REFERENCE SPECIFICATION FOR MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

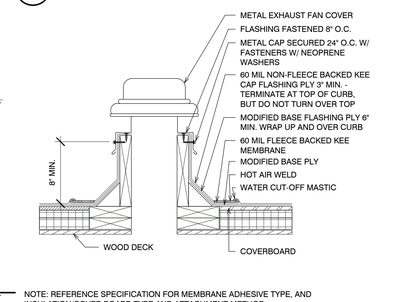
2 Curb @ Air Handling Station

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



7 Roof Hatch & Ladder

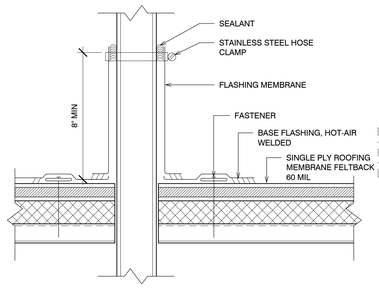
SCALE: 3/4" = 1'-0"



NOTE: REFERENCE SPECIFICATION FOR MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

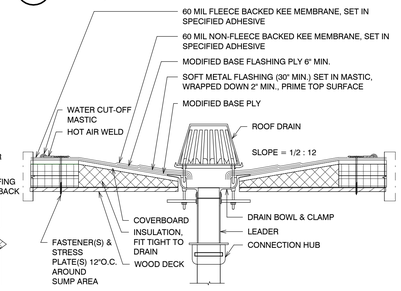
3 Exhaust Fan

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



8 R_Flashing at Pipe

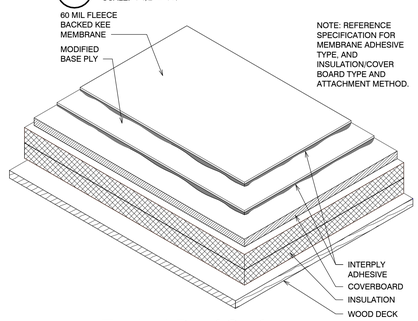
SCALE: 3" = 1'-0"



NOTE: REFERENCE SPECIFICATION FOR MEMBRANE ADHESIVE TYPE, AND INSULATION/COVER BOARD TYPE AND ATTACHMENT METHOD.

4 Roof Drain

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



5 Typical Roof Surface

SCALE: 3" = 1'-0"

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PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO BP25-02229

NO	REVISION	DATE
1		

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
TODD A JESPERSEN AIA

DRAWN BY JONATHAN D LEE AIA
CHECKED BY TODD A JESPERSEN AIA

ARCHITECT'S JOB NO 24004
DATE 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER CP26-12

COUNTY PROJECT NUMBER P6T24008

COUNTY DWG NO | **SHEET** ____ OF ____

SHEET TITLE

ROOF DETAILS

SHEET NO

A-707

Abbreviations

APPLIES TO STRUCTURAL DRAWINGS ONLY

SYMBOLS USED AS ABBREVIATIONS

@	AT
∠	ANGLE
℄	CENTERLINE
[	CHANNEL
d	PENNY
⊥	PERPENDICULAR
℞	PLATE(S)
?	DIAMETER
ø	SQUARE
w/	WITH
wo/	WITHOUT
#	NUMBER
&	AND
o/	OVER

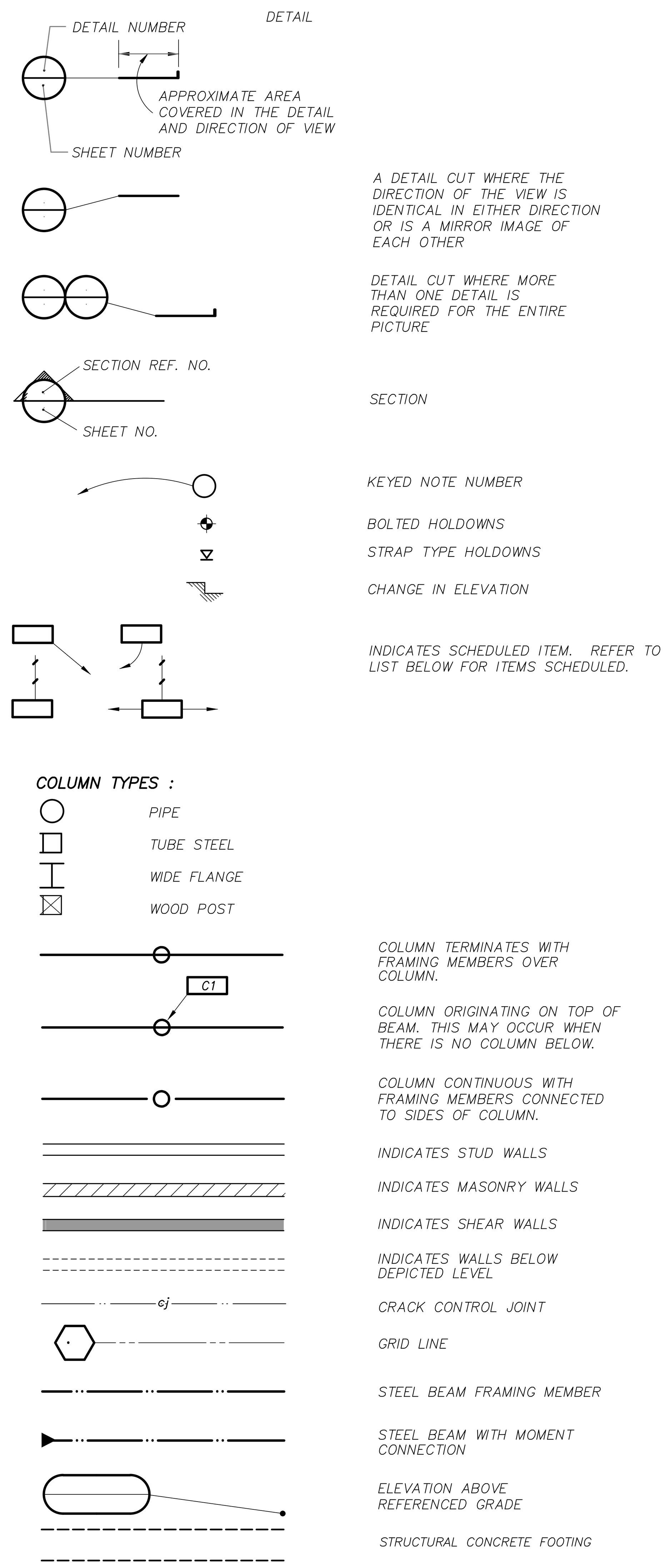
ABBREVIATIONS

A.C.	ASPHALT CONCRETE
ALT.	ALTERNATE
A.B.	ANCHOR BOLT(S)
APPROX.	APPROXIMATE(LY)
ARCH.	ARCHITECT(URAL)
BSMT.	BASEMENT
BRG.	BEARING
BM.	BEAM
BLK.	BLOCK
BLKG.	BLOCKING
B.O.	BOTTOM OF
B.O.F.	BOTTOM OF FOOTING
BLDG.	BUILDING
B.N.	BOUNDRY NAILING
C.	CAMBER
C.I.P.	CAST-IN-PLACE
CEM.	CEMENT
CNTR.	CENTER(ED)
CHAM.	CHAMFER(ED)
CLR.	CLEAR(ANCE)
CLS.	CLOSURE
C.J.	COLD JOINT or CONTROL JOINT
COL.	COLUMN(S)
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CONT.	CONTINUE(OUS)
CONTR.	CONTRACT(OR)
CORR.	CORRUGATED
CSK.	COUNTERSINK(SUNK)
C.F.	CUBIC FOOT
C.Y.	CUBIC YARD
DBL.	DOUBLE
D.L.	DEAD LOAD
DEP.	DEPRESS(ED)
DTL.	DETAIL(S)
DIAG.	DIAGONAL
DIA.	DIAMETER
DIM.	DIMENSION(S)
DF.	DOUGLAS FIR
DN.	DOWN
E.	EAST
E.N.	EDGE NAILING
EA.	EACH
E.F.	EACH FACE
(E)	EXISTING
ELEV.	ELEVATION
EQ.	EQUAL
E.B.	EXPANSION BOLT
EXP.	EXPOSE(D)
EXT.	EXTERIOR
F.N.	FIELD NAILING
FAB.	FABRICATE(D)(ION)
F.B.	FLOOR BEAM
F.O.	FACE OF
FOC.	FACE OF CONCRETE
FOM.	FACE OF MASONRY
FOS.	FACE OF STUD
F.S.	FAR SIDE
FIN.	FINISH
FFE.	FINISH FLOOR ELEVATION
FF.	FINISH FLOOR
FLR.	FLOOR
FT.	FOOT, FEET
FTG.	FOOTING
FDN.	FOUNDATION
FUT.	FUTURE
GA.	GAGE, GAUGE
GALV.	GALVANIZE(D)
GL.	GLASS, GLAZING
G.B.	GRADE BEAM
GLB.	GLUED LAMINATED BEAM
GYP.	GYPSUM
GYPBD.	GYPBOARD
HDR.	HEADER
H.V.A.C.	HEATING/VENTILATING /AIR CONDITIONING
HT.	HEIGHT
HK.	HOOK(S)
HORIZ.	HORIZONTAL
INCL.	INCLUDE(D)(ING)
I.D.	INSIDE DIAMETER
IN.	INCHES
INS.	INSULATE(D)(ING)
INSP.	INSPECT(ING)(ION)
INT.	INTERIOR
INTM.	INTERMEDIATE
JT.	JOINT
JST.	JOIST
KO.	KNOCKOUT
K.J.	KEYED JOINT

L.	LENGTH
LB.	POUND
LAM.	LAMINATE(D)
LDGR.	LEDGER
LH.	LEFT HAND
L.L.	LIVE LOAD
LWC	LIGHT WEIGHT CONCRETE
M.B.	MACHINE BOLT
M.I.	MALLEABLE IRON
MFR.	MANUFACTURER
MAS.	MASONRY
M.L.	MASONRY LINTEL
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MED.	MEDIUM
MMB.	MEMBRANE
M.F.D.	METAL FLOOR DECKING
M.R.D.	METAL ROOF DECKING
MDSP.	MIDSPAN
MISC.	MISCELLANEOUS
N.	NORTH
(N)	NEW
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
N.S.	NEAR SIDE
NWC	NORMAL WEIGHT CONCRETE
O.C.	ON CENTER
OPNG.	OPENING
O.W.J.	OPEN-WEB JOIST
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
PNL.	PANEL
PRLN.	PURLIN(S)
PAR.	PARALLEL
PARTN.	PARTITION
PVMT.	PAVEMENT
PERF.	PERFORATE
PLY.	PLYWOOD
P.W.J.	PLYWOOD WEB JOIST
PT.	POINT
PVC.	POLYVINYLCHLORIDE
PCF.	POUNDS PER CUBIC FOOT
PLF.	POUNDS PER LINEAL FOOT
PSI.	POUNDS PER SQUARE INCH
PREFAB.	PREFABRICATE(D)
PREFIN.	PREFINISH(ED)
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PL.	PLATE(S)
PLN.	PROPERTY LINE
RAD.	RADIUS
RLNG.	RAILING
REF.	REFER(ENCE)
REINF.	REINFORCE(D)
REQ.	REQUIRE(D)
REV.	REVERSE(D)
REV.	REVISE(ION)
RH.	RIGHT HAND
R.D.	ROOF DRAIN
RFG.	ROOFING
RM.	ROOM
R.O.	ROUGH OPENING
R.R.	ROOF RAFTER
S.J.	SAWED JOINT
SCHED.	SCHEDULE
SEC.	SECTION
SHT.	SHEET or SHEATHING
SIMP.	"SIMPSON" (a manufacturer)
SIM.	SIMILAR
S.L.R.S	SEISMIC LOAD RESISTING SYSTEM
S.	SOUTH
SPC.	SPACE(R)(D)(ING)
SPEC.	SPECIFICATION
SQ.	SQUARE
STAG.	STAGGER(ED)
STL.	STEEL
STD.	STANDARD
STRL.	STRUCTURAL
SYM.	SYMMETRICAL
THRD.	THREAD(ED)
THK.	THICK
T&G	TONGUE & GROOVE
T.O.	TOP OF
TOC.	TOP OF CONCRETE
TOCB.	TOP OF CURB
TOF.	TOP OF FOOTING
TOG.	TOP OF GRADE
TOM.	TOP OF MASONRY
TOP.	TOP OF PAVING
TOPL.	TOP OF PLATE
TOSHTG.	TOP OF SHEATHING
TOS.	TOP OF SLAB
TOSTL.	TOP OF STEEL
TOW.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.B.	VAPOR BARRIER
VNR.	VENEER
VERT.	VERTICAL
WF.	WIDE FLANGE
WWF.	WELDED WIRE FABRIC
WP.	WATERPROOFING
W.	WEST
W.	WIDTH or WIDE
WD.	WOOD
W.I.	WROUGHT IRON
WM.	WIRE MESH

Symbols

APPLIES TO STRUCTURAL DRAWINGS ONLY



Structural General Notes

APPLIES TO STRUCTURAL DRAWINGS ONLY

GENERAL

1. All materials and workmanship are subject to the review of the Architect and Structural Engineer.
2. Report any and all discrepancies, ambiguities, unclear items or items that are subject to more than one interpretation, on the Drawings and/or Specifications to the Structural Engineer for clarification before proceeding with Work.
3. All Work done under this contract is to comply with the 2022 edition of the California Building Code.
4. Design and install all temporary bracing and shoring to ensure the safety of the Work until it is in its completed form. When required by law, employ a Civil Engineer to design shoring, bracing, and installation plans for structural items.
5. Verify all dimensions prior to starting Work. The Architect and Structural Engineer are to be notified of any discrepancies or inconsistencies. Check and coordinate all dimensions. See architectural Drawings for dimensions and non-structural items not shown on these Plans. Do not scale the Drawings to obtain dimensions.
6. All scaffoldings and shoring is to comply with the rules and regulations of the Industrial Safety Commission of the State of California.
7. The Structural Engineer will provide only periodic observation of the Work.
8. Fees or costs associated with the redesign or modification of these Plans by the Architect or Structural Engineer as a result of deviation by the Contractor from the Plans and Specifications, or due to errors, faulty materials or faulty workmanship, is to be paid to the Structural Engineer by the Contractor.
9. The Contractor is required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property. This requirement applies continuously and is not limited to normal working hours. The Contractor further agrees to defend, indemnify and hold harmless the Structural Engineer from any and all liability, real or alleged, in connection with the performance of Work of this project, excepting liability arising from the sole negligence of the Structural Engineer.
10. Neither the professional activities nor the presence of the Structural Engineer at the construction site relieves the Contractor of his obligation, duties and responsibilities for construction means, methods, sequences, techniques and procedures necessary for the Contractor to complete the Work in accordance with the Plans and Specifications in a manner to ensure the health and safety of persons who enter the construction site.
11. Any differences between the existing construction as observed in the field and as shown on the Drawings is to be reported to the Structural Engineer before proceeding with Work.
12. Bidders must visit the building site and familiarize themselves with the existing conditions. Discrepancies or deletions must be brought to the attention of the Architect and Structural Engineer before bid date for correction.
13. All work has been done in a manner as required for new structures. No attempt has been made to bring the entire structure into compliance with current building codes. However, the new design substantially conforms to the following standards:
    A. The capacity of existing structural elements required to resist forces has not been reduced.
    B. The lateral loading to existing structural elements has not been increased beyond their capacity.
    C. New structural elements are detailed and connected to the existing structural elements as required by current code.
14. Notify the owner of the adjoining property no less than ten days prior to making basement excavation. Protect adjoining property and buildings as defined in Section 1804.1 of the California Building Code.

TIMBER

1. Framing and sheathing grades are as follows;

Joists and rafters	Doug Fir No. 2
4x & 6x beams/headers	Doug Fir No. 1 & Better
Wall studs	Doug Fir No. 2
Blocking, stripping, & misc	Doug Fir No. 2
Plywood and OSB	APA sheathing rated Structural I, Exposure I

2. For minimum nailing per California Building Code, see typical detail sheet.
3. Anchor non-bearing interior stud walls on concrete slabs with 3/8" diameter x 6" anchor bolts at 4'-0" o.c. or .145" diameter powder driven pins with 1" space powder driven anchors at 32" o.c., and a maximum of 9" from ends. Use a minimum of 2 fasteners per place. Use low velocity DN fasteners by HILTI (ICC#EST-2269), or 1524 fasteners by Ramset (ICC#EST-1799), or other approved equal (ICC reports are required).
4. Provide minimum anchorage of bearing walls and exterior walls with 5/8" diameter x 12" anchor bolts at 4'-0" o.c. with a bolt within 12" from the end of each piece.
5. Drill holes in wood for bolts 1/16" larger than the nominal size of the bolt, unless noted otherwise on the Drawings.
6. Provide all bolts with standard cut washers under heads and/or nuts where in contact with wood.
7. Where stud wall terminates at a concrete or masonry wall, fasten the last stud to the wall with 3/8" diameter x 6" long bolts at the top, bottom, and mid-height of the stud. Maximum vertical spacing of anchors shall be 6'-0".
8. Pre-drill lag bolt holes as recommended by CBC standards and screw bolts into place.
9. Stagger splices in upper and lower plates at the top of stud walls at least 4'-0".
10. Solid block all 2x joists and rafters at points of bearing. Where the joist or rafter span exceeds eight (8) feet, provide wood cross-bridging, not less than 2" x 3" nominal, metal cross-bridging of equal strength, or solid blocking between joists. Cross-bridging or blocking may be omitted for roof and ceiling joists 8" and less in depth, unless noted otherwise on the Plans.
11. Minimum dimension of any plywood sheet is to be 24" and the minimum area is to be 8 square feet. Smaller dimensioned sheets may be used only if all edges are solid blocked and edge nailed.
12. Provide 1/8" gap at all adjoining plywood panel edges.
13. Machine applied nailing: Demonstrate satisfactory installation on the job. Nailing tools used for diaphragm and shear wall sheathing attachment must have adjustable depth control features. It is not sufficient to control over-driving by adjusting air pressure. The Structural Engineer will review machine nailing to confirm continued satisfactory performance. Nails shall not penetrate the outer plywood ply more than if the nail was installed with a hammer. If more than 20% of the nails around the perimeter of any panel are over-driven by up to 1/8", one new nail for every two over-driven shall be added (repair per APA report No. T94-9). Any two nails over-driven by more than 1/8" shall have an additional nail added.
14. All timber connectors are to be galvanized, or painted with corrosion resistant polymer paint.
15. All sheet metal framing connectors shown on the Plans are to be Strong-Tie connectors as manufactured by the Simpson Co. or equal. Unless noted otherwise on the Plans, install connectors with the size and number of bolts as recommended by the manufacturer in the latest catalog.
16. Treat bottom 6 inches of posts that bear on concrete or concrete block with a safe preservative that does not discolor the wood.
17. Use Douglas Fir pressure impregnated lumber for sill plates resting on or against concrete or masonry and at other exterior locations. Use a Wolman CCA-C product or approved equal. When pressure treated lumber is in contact with steel connectors, the pressure treatment compound shall be no more corrosive than CCA-A.
18. Fasteners in contact with preservative-treated wood shall be of hot-dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, timber rivets, wood screws, and lag screws shall be permitted to be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum. Connectors that are used in exterior applications and in contact with preservative-treated wood shall have coating types and weights in accordance with the treated wood or connector manufacturer's recommendations. In the absence of manufacturer's recommendations, a minimum of ASTM A 653, type GI 85 zinc-coated galvanized steel, or equivalent, shall be used. **Exception:** Plain carbon steel fasteners in SBX/DOT and zinc borate preservative treated wood in an interior, dry environment shall be permitted.

STEEL

1. Channels are to conform to ASTM A572, grade 50. Plates, angles, and misc. steel sections shall conform to ASTM A36.
2. Tube and circular steel sections (HSS): conform to ASTM A-500, grade B Fy=46 ksi.
3. Anchor bolts and threaded studs (hooked, headed, and threaded anchor rods): conform to ASTM F1554 unless noted otherwise on the Plans.
4. All bolts shall be A307, unless otherwise noted. Where high strength bolts are specified in the drawings, they shall conform to ASTM A325N. Unless pre-tensioned or friction type connections are specified, tighten bolts requiring the full effort of an ironworker with an ordinary spud wrench.
5. Welding: conform to AWS standards, latest addition.
6. All welding shall be done by the shielded arc method. All welders shall be properly qualified and AWS certified for the kind of weld they perform. Surplus metal shall be dressed off to smooth, even surfaces where welds are not exposed to view. All field-welding shall be inspected by a testing laboratory approved by the Structural Engineer.
7. Use low hydrogen electrodes for welding reinforcing steel. All welded reinforcing steel to conform to ASTM A706.
8. All steel on the exterior of the building shall be hot dipped galvanized after fabrication. Field welds shall be painted with "Galvalloy".
9. All steel not encased in concrete or concrete block shall have one shop coat of zinc chormate, or other approved paint 2 mils thick. After erection, all nuts, bolt heads, and abrasions to the shop coat shall receive a tough up coat. Paint shall be omitted at places to receive sprayed on fire proofing, and areas with friction type bolts.
10. Submit shop drawings of all steel work to the Structural Engineer for review. Submit sufficient copies of shop drawings so that the Architect and Structural Engineer may each retain one copy for their record. Any fabrication prior to the review of shop drawings shall be done at the sole risk of the Contractor. The Structural Engineer will require that the shop drawings be in his office at least 3 weeks for review. Submit shop drawings soon enough so that the required Structural Engineer's review period will not impact the construction schedule. Contact the Structural Engineer when shop drawings are begun to confirm schedule.

CONCRETE ADHESIVE

1. Drill the diameter of the hole 1/8" larger than the bolt or rebar to be inserted in the hole.
2. Drill to the depth shown on the Drawings.
3. Blow out holes to remove all dust and particles.
4. Use a high strength, high bond, non-shrink adhesive. Approved manufacturers are Simpson 'SET-3G' [ICC ESR-4057], or approved equal. Install in conformance to the manufacturer's recommendations.

CONCRETE

1. All concrete is to have a minimum ultimate compressive strength of 3,000 psi at 28 days, unless noted otherwise on the Drawings.
2. Reinforcing bars are to be of intermediate grade conforming to ASTM A 615, grade 40 for #2 and #3 bars and grade 60 for #4 bars and larger.
3. Cement is to be type II, low alkali (no higher than 0.60%), conforming to ASTM C-150. Up to a maximum of 18% of cement may be substituted with Fly Ash (type "F").
4. All aggregate used in concrete are to conform to ASTM C-33. Aggregate shall be uniformly graded, with the maximum aggregate size required to be 1" to 3/4".
5. Coarse and fine aggregate (sand) are to come from a source proven to have non-reactive characteristics. Coarse aggregate which is heavy media processed (Saticoy, Sisquoc), Santa Margarita rock, or San Gabriel rock will be considered as meeting the criteria of non-reactivity. Moorpark sand (Quality, Best, Blue Star) will be considered as meeting the requirements of non-reactivity. Other aggregates meeting or exceeding the aggregate reactivity characteristics of the aggregates listed above are acceptable upon submittal of adequate documentation (ASTM C289 and ASTM C277 test results that are not more than 2 years old). Use an approximate 60% to 40% ratio of coarse aggregate to fine aggregate (by weight) respectively.
6. Splices of reinforcing steel are to be lapped as specified in these drawings and securely wired together. Splices of adjacent reinforcing bars shall be staggered wherever possible. See Drawings for particular requirements for splice breaks.
7. Minimum concrete cover for reinforcing is as follows:

Cast against and permanently exposed to earth	3"
Cast in forms and exposed to earth or weather	2"
Interior slabs, walls, and joist	1"
Interior beams, girders, and columns	1-1/2"

8. Location of sleeves for pipes, and for pipes intended to be cast in concrete, for which no specific details are shown shall be subject to the review of the Structural Engineer.
9. Secure in position prior to inspection and pouring concrete, all anchor bolts, holdown anchors, reinforcing steel, dowels, inserts, etc. For anchor bolts and holdowns, use Simpson Anchormate anchor bolt holders. Stabbing bolts after pouring slab will not be allowed.
10. Concrete shall contain a minimum of 5.5 sacks of cement per cubic yard, a maximum water/cement ratio of 0.50, and shall have a slump no greater than 4". Do not exceed 36 gallons of water per cubic yard of concrete.
11. Continuous inspection by a Deputy Inspector approved by the Building Department is required for all concrete with an ultimate compressive strength greater than 2,500 psi.
12. Make and test concrete cylinders in accordance with Section 1704.4 of the CBC.
13. Spray slabs with a curing compound immediately after finishing.
14. Vibrate all concrete as it is being placed with electronically-operated vibrating equipment.

METAL STUDS

1. Maximum allowable deflection:
    A. Studs receiving gypsum wallboard finishes: L/240
    B. Studs receiving plaster and brittle finishes, including stucco: L/240
2. Welding: Performed by certified welders in compliance with AWS D1.3 Structural Welding Code Sheet Steel.
3. Furnish products as manufactured by a manufacturing member of the Steel Stud Manufacturers Association (SSMA) subject to compliance with Specification requirements. Studs, track, bracing and bridging shall conform to ASTM C955, ASTM A653, G60 hot-dip galvanized coating. Minimum structural properties In accordance with plan notes.
    A. Track: Channel shaped; same width as studs for tight fit; 16 gage solid web, galvanized or painted to match studs.
    B. Bracing, furring, bridging: Formed galvanized sheet steel; channel shaped. Provide CRC-1-1/2"x16 gage bridging.
    C. Plates, Gussets, and Clips: Galvanized formed steel, thickness determined for conditions encountered, Manufacturer's standard shapes.
    D. Connector devices (VertiClip, DriftClip and StiffClip): as manufactured by the Steel Network, Inc.
4. Fasteners:
    A. Self-tapping screws shall penetrate for at least 3 exposed threads past joined materials.
    B. Welding electrodes shall comply with AWS standards and as indicated on General Structural Notes.
5. Erection: Install components in accordance with Manufacturer's instructions. Secure in place with fasteners or welding at maximum 24". Place studs at 16" on center; not more than 2" from abutting walls and at each side of openings. Connect studs to track using fastener method unless noted otherwise. Construct corners using minimum three studs. Fasten metal studs by welding or screw-fastening as indicated. Do not fasten framing members by wire tying. Provide deflection allowance in stud track, directly below horizontal building framing for non-load bearing framing. Attach cross studs of furring channels to studs for attachment of fixtures anchored to walls. Install framing between studs for attachment of mechanical and electrical items, and to prevent stud rotation. Touch-up field welds and damaged galvanized surfaces with primer.

DESIGN PARAMETERS

1. Seismic Force Resisting System - A Tier 1 Screening and Tier 2 Deficiency-Based Evaluation and Retrofit of the existing two-story concrete shear wall building have been performed per the requirements of ASCE 41-17, Section 3.4.3. Items found in the evaluation to be deficient have been further analyzed and strengthened using the Linear Static Procedure (LSP) of ASCE 41-17 Section 7.4.1. All new structural elements not part of the lateral force resisting system have been designed to the requirements of the 2022 California Building Code (CBC). Specific lateral design criteria for each analysis type is listed below.

2. Seismic - **ASCE 41-17**

Basic Performance Objective (BPOE) per ASCE 41-17, Table 2-2:
Risk Category - III
BSE-1E: Not Evaluated
BSE-2E: Reduced Safety (S-4)

BSE-1E Response Accel. Parameters:	BSE-2N Response Accel. Parameters:
S_S = 0.623g	S_S = 1.481g
S_1 = 0.215g	S_1 = 0.536g
F_a = 1.302	F_a = 1.20
F_v = 2.170	F_v = 1.764
S_{XS} = 0.811g	S_{XS} = 1.777g
S_{X1} = 0.467g	S_{X1} = 0.946g
S_a = 0.811g	S_a = 1.777g
	Base Shear, V = 2.13W

3. Seismic - **Mechanical Equipment Anchorage**

Risk Category - III
Seismic Design Category - D
Site Class - D

Spectral Response Coefficients, S_S = 1.97g
S_1 = 0.74g

F_a = 1.20
F_v = 1.70

S_{DS} = 1.58g
S_{D1} = 0.84g

Component Amplification Factor, a_p = 2.5 for all spring or internal isolation HVAC units

Weight of Equipment, W_p = PER PLAN

Component Response Modification Factor, R_p = 2.0 for all spring or internal isolation HVAC units

Importance Factor, I_p = 1.0
Height of Attachment : z/h = 1.0 for all roof-mounted equipment

F_p = 2.37W_p for all roof-mounted equipment

Seismic Force Resisting System - The seismic resistance of the attachments of all rooftop mechanical equipment has been designed using the lateral forces determined in Section 13.3 of ASCE 7-16.

4. Wind -
Risk Category - III
Basic Wind Speed, V = 99 mph

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COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE

STRUCTURAL GENERAL NOTES

SHEET NO

S-001

Special Inspection Tables

APPLIES TO STRUCTURAL DRAWINGS ONLY

SPECIAL INSPECTIONS (CBC Sections 1704 & 1705)

The following items will require special inspection. See code sections below for additional information:

1. *Reinforced concrete per Table 1705.3.*
   - *A. Required for all concrete designed for f'c exceeding 2,500 psi.*
   - *B. Exceptions – Special Inspections shall not be required for:*
     - *1. Concrete patios, driveways and sidewalks, on grade.*
2. *Steel Construction per Section 1705.2 and Table 1705A.2.1*
   - *A. Welding not performed in an approved fabricator's shop per Section 1705A.2.2.1 Cost of Special Inspection for field welds not shown on Plans to be borne by Owner. Cost of Special Inspection on welds that are not specifically called out on the Plans as field welds to be borne by Owner.*
   - *B. Steel construction details per Section 1705A.2.*
3. *Post–installed anchors & epoxy dowels*

NOTIFICATION

Notify the Structural Engineer 48 hours before the following times:

1. *Prior to the time that the site grading work begins.*
2. *Prior to all concrete pours.*
3. *When rough framing is completed and prior to start of finish work.*
4. *Prior to covering any plywood sheathing nailing.*

TABLE 1705.3

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD [a]	IBC REFERENCE
1. Inspect reinforcement, including pretressing tendons, and verify placement.	——	X	ACI 318 Ch. 20, 25.2, 25.3, 26.5.1–26.5.3	1908.4
2. Reinforcing bar welding:				
a. Verify weldability of reinforcing bars other than ASTM A706;	——	X	AWS D1.4 ACI 318: 26.5.4	——
b. Inspect single–pass fillet welds, maximum 5/16"; and	——	X		
c. Inspect all other welds.	X			
3. Inspect anchors cast in concrete	——	X	ACI 318: 17.8.2	——
4. Inspection of 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 defined 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: 26.4.5, 26.12	1908.10
7. Inspect concrete and shotcrete placement for proper application techniques.	X	——	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. Verify maintenance of specified curing temperature and techniques.	——	X	ACI 318: 26.4.7–26.4.9	1908.9
9. Inspect prestressed concrete for:				
a. Application of prestressing forces; and	X	——	ACI 318: 26.9.2.1	——
b. Grouting of bonded prestressing tendons	X	——	ACI 318: 26.9.2.3	
10. Inspect erection of precast concrete members.	——	X	ACI 318: Ch. 26.8	——
11. Verify in–situ concrete strength, prior to stressing of tendons in post–tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	——	X	ACI 318: 26.10.2	——
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	——	X	ACI 318: 26.10.1(b)	——

For SI: 1 inch=25.4 mm.

a. Where applicable, see also Section 1705.12, Special inspection 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 are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

TABLE 1705A.2.1

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD [a]	CBC REFERENCE
1. Material verification of high–strength bolts, nuts and washers:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	——	X	Applicable ASTM material specifications; AISC 360, Section A3.3	——
b. Manufacturer's certificate of compliance required.	——	X	——	——
2. Inspection of high–strength bolting:				
a. Snug–tight joints.	——	X	AISC 360, Section M2.5	
b. Pretensioned and slip–critical joints using turn–of–nut with matchmarking, twist–off bolt or direct tension indicator methods of installation.	——	X		
c. Pretensioned and slip–critical joints using turn–of–nut without matchmarking or calibrated wrench methods of installation.	X	——		
3. Material verification of structural steel and cold–formed steel deck:				
a. For structural steel, identification markings to conform to AISC 360.	——	X	AISC 360, Section M5.5	2203A.1
b. For other steel, identificataion markings to conform to ASTM standards specified in the approved construction documents.	——	X	Applicable ASTM material standards	
c. Manufacturers' certified mill test reports.	——	X	ASTM A 6 or ASTM A 568	
4. Material verification of weld filler materials:				
a. Identification markings to conform to AWS specification in the approved construction documents.	——	X	AISC 360, Section A3.5 and applicable AWS A5 documents	——
b. Manufacturer's certificate of compliance required.	——	X	——	——
5. Inspection of welding:				
a. Structural steel:				
1) Complete and partial penetration groove welds.	X	——	AWS D1.1	1705A.2.2
2) Multipass fillet welds.	X	——		
3) Single–pass fillet welds > 5/16"	X	——		
4) Plug and slot welds.	X	——		
5) Single–pass fillet welds ≤ 5/16"	——	X		
6) Floor and roof deck welds.	——	X	AWS D1.3	——
b. Reinforcing steel:				
1) Verification of weldability of reinforcing steel other than ASTM A 706.	——	X	AWS D1.4 ACI 318: Section 3.5.2	——
2) Reinforcing steel–resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	——		
3) Shear reinforcement.	X	——		
4) Other reinforcing steel.	——	X		
6. Inspection of steel frame joint details for compliance:				
a. Details such as bracing and stiffening.	——	X	——	1705A.2.2
b. Member locations.	——	X		
c. Application of joint details at each connection.	——	X		

For SI: 1 inch=25.4 mm.

a. Where applicable, see also Section 1705A.11, Special inspection for seismic resistance.

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REGISTERED PROFESSIONAL ENGINEER — GREGORY H. STORK — No. 4981 — CIVIL — STATE OF CALIFORNIA

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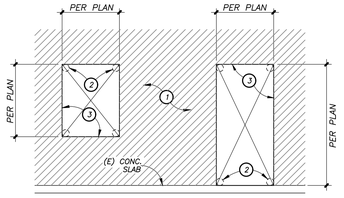
SPECIAL INSPECTION TABLES

SHEET NO

S-002

1. EXISTING CONC. WALL/SLAB TO REMAIN.
2. CORE NEW 4" ø HOLES ON INSIDE CORNER LOCATIONS FOR NEW OPENINGS BEFORE COMMENCING w/ SAW CUTTING.
3. SAW CUT EDGES OF NEW OPENING. DO NOT OVER-CUT AT CORNERS. CHIP OUT SQUARE CORNERS AFTER SAW CUTTING IS COMPLETE.



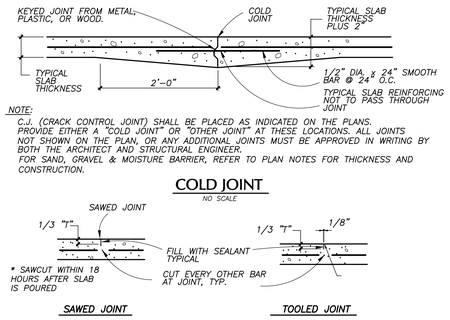
NEW WINDOW/SLAB OPENING NEW DOOR OPENING

NOTE: DEMOLITION OPERATIONS SHALL NOT DAMAGE, CUT, NOTCH, MAR, OR DEFACE EXISTING URM WALL TO REMAIN.

NEW OPENING IN EXISTING CONC. WALL/SLAB

NO SCALE

13



NOTE:
C.J. (CRACK CONTROL JOINT) SHALL BE PLACED AS INDICATED ON THE PLANS. PROVIDE EITHER A "COLD JOINT" OR "OTHER JOINT" AT THESE LOCATIONS. ALL JOINTS NOT SHOWN ON THE PLAN, OR ANY ADDITIONAL JOINTS MUST BE APPROVED IN WRITING BY BOTH THE ARCHITECT AND STRUCTURAL ENGINEER. FOR SAND, GRAVEL & MOISTURE BARRIER, REFER TO PLAN NOTES FOR THICKNESS AND CONSTRUCTION.

COLD JOINT

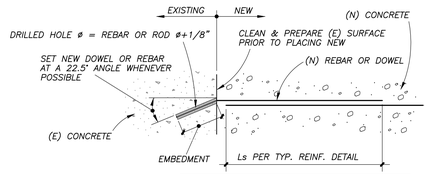
NO SCALE

OTHER JOINTS

NO SCALE

CRACK CONTROL JOINTS

9



Rebar/Threaded Rod Embedment Schedule

REBAR DOWELS		THREADED ROD DOWELS	
Size	Concrete Embedment	Size	Concrete Embedment
#3	3-1/2"	3/8"ø	3-1/2"
#4	4"	1/2"ø	4-1/4"
#5	5"	5/8"ø	5"
#6	7"	3/4"ø	6-5/8"
#7	7-1/2"	7/8"ø	7-1/2"
#8	8"	1"ø	8-1/4"
#9	10"	1-1/4"ø	12"

EPOXY SCHEDULE NOTES:
1. Use high strength, high bond, non-shrink concrete epoxy adhesive. Refer to Structural General Notes for approved manufacturer.
2. Special Inspection is required for installation of rebar dowels & threaded rods.
3. Follow all manufacturer's requirements and reccommendations for proper installation.
4. Clear out all dust and fragments from drilled holes with oil-free compressed air before placing epoxy.
5. Embedments in Table are only to be used where specific embedments are not called out elsewhere.

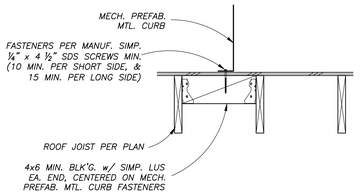
TYPICAL REBAR/THREADED ROD EPOXIED DOWEL INTO EXISTING

5

The details on this sheet and all sheets starting with "S-1_ _" are "TYPICAL" details which are to be used by the Contractor where these general conditions exist. These details are NOT NECESSARILY REFERENCED anywhere else in this set of Construction Documents.

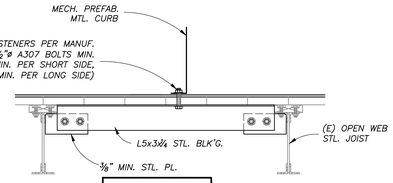
Prior to starting work, the Contractor shall confirm with the Engineer that these details are properly interpreted and applied to the appropriate conditions.

1



TYP. MECH. CURB TO WD. FRAMING CONN.

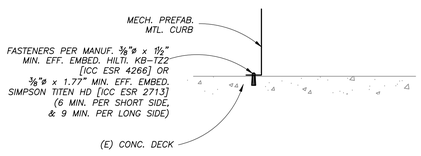
NO SCALE



NOTE: REF. TO DET. **6/S-301 SIM.** FOR INFO NOT SHOWN.

TYP. MECH. CURB TO STL. BLOCK'G. CONN.

NO SCALE



TYP. MECH. CURB TO CONC. DECK CONN.

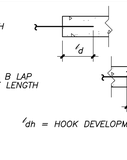
NO SCALE

15

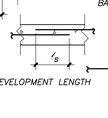
CONCRETE REINFORCING DEVELOPMENT & SPLICE LENGTHS (IN INCHES) - PER ACI 318-19 (FOR GRADE 60 STEEL)																									
BAR LOCATION	CONCRETE		BAR SIZE																						
	TYPE	STRENGTH	#3			#4			#5			#6			#7			#8			#9				
			ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}	ℓ_d	ℓ_s	ℓ_{dh}		
WALL VERT. REINF. FTG. BOTTOM REINF., SLAB-ON-GRADE REINF.	NORMAL	f'c = 3ksi	17	22	9	22	29	11	28	36	14	33	43	17	48	63	20	55	72	22	62	81	25		
FTG. TOP REINF. (a), WALL HORIZ. REINF. (Ψ_t=1.3)	NORMAL	f'c = 3ksi	22	28	9	29	38	11	36	47	14	43	56	17	63	81	20	72	93	22	81	105	25		

a. FTG. TOP REINF. = MORE THAN 12" OF FRESH CONC. PLACED BELOW HORIZONTAL REINFORCEMENT
b. d_b = BAR DIAMETER
c. MIN. BAR CLEAR COVER c_c = d_b (1" MIN.)
d. MIN. BAR CLEAR SPACING = $2d_b$ (1" MIN.)

NOTES:
1. ℓ_d = DEVELOPMENT LENGTH



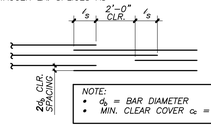
ℓ_s = CLASS B LAP SPLICE LENGTH



ℓ_{dh} = HOOK DEVELOPMENT LENGTH

2. WHEN SPLICING BARS OF DIFFERENT SIZE, USE LAP SPLICE LENGTH OF LARGER BAR, U.N.O.

3. STAGGER EA. SPLICES AS



NOTE:
- d_b = BAR DIAMETER
- MIN. CLEAR COVER c_c = d_b

REINFORCING DEVELOPMENT & SPLICE LENGTHS

Scale: N.T.S.

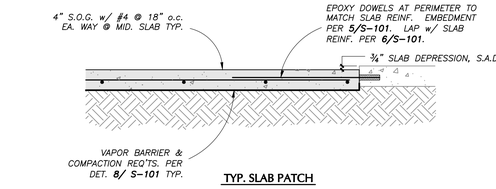
6

NAILING SCHEDULE (1)	
CONNECTION	NAILING (2)
JOIST TO SILL OR GIRDER, TOE NAIL	(3) – 8d
BLOCKING TO JOIST, EACH END	(2) – 16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
TOP PLATE TO STUD, END NAIL	(2) – 16d
STUD TO SOLE PLATE, TOE NAIL	(4) – 8d
DOUBLE STUDS, FACE NAIL	16d AT 24" O.C.
DOUBLE TOP PLATES, FACE NAIL	16d AT 16" O.C.
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(4) – 16d (OR AS SPECIFIED)
CONTINUOUS HEADER, TWO PIECES	16d @ 16" (ALONG EA. EDGE)
CEILING JOISTS TO PLATE, TOE NAIL	(3) – 8d
CONT. HEADER TO STUD, TOE NAIL	(4) – 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) –16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) – 16d
RAFTER TO PLATE, TOE NAIL	(3) – 8d
1" BRACE TO EA. STUD & PLATE, FACE NAIL	(2) – 8d (OR AS SPECIFIED)
BUILT-UP CORNER STUDS	16d AT 24" O.C.
BUILT-UP GIRDERS & BEAMS	20d @ 32" O.C. (TOP & BOTT. AND STAGGERED) (2) – 20d @ ENDS
PLYWOOD FLOOR & ROOF SHEATHING	10d (SEE NOTE 4, U.N.O.)

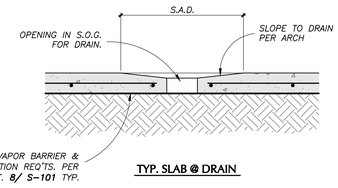
NOTES:
1) MINIMUM NAILING ONLY. SEE DETAILS FOR LOCATIONS WHERE OTHER NAILING IS SPECIFIED.
2) COMMON NAILS CONFORMING TO ASTM F1667 TO BE USED THROUGHOUT U.N.O.
3) NAILS SPACED AT 6"O.C. AT EDGES, 12"O.C. AT INTERMEDIATE SUPPORTS (10"O.C. AT INTERMEDIATE SUPPORTS FOR FLOORS).

NAIL DIMENSIONS		
NAIL	DIAMETER	LENGTH
20d	0.192"	4"
16d	0.162"	3-1/2"
10d	0.148"	3"
8d	0.131"	2-1/2"

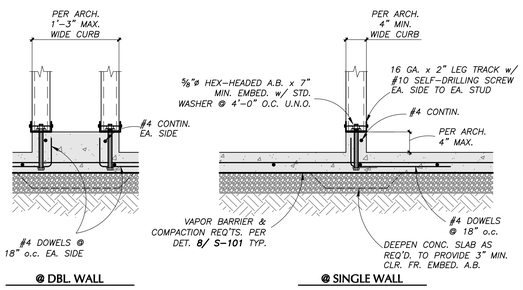
2



TYP. SLAB PATCH



TYP. SLAB @ DRAIN



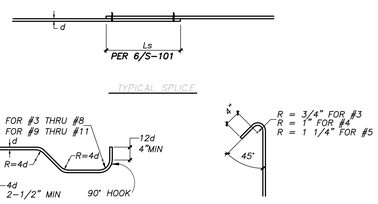
NOTE: REF. TO SINGLE WALL FOR INFO NOT SHOWN.

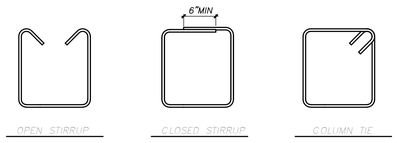
TYP. INTERIOR CONC. SLAB-ON-GRADE

NO SCALE

NOTE:
- (N) CONC. S.O.G. SHALL BE 4" MIN. w/ #4 @ 18" o.c. EA. WAY @ MID SLAB, U.N.O.
- REF. TO **8/S-101** FOR VAPOR BARRIER & COMPACTION REQ'TS.

12

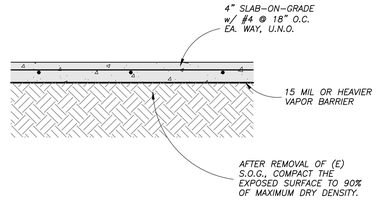




REINFORCING DETAILS

Scale: N.T.S.

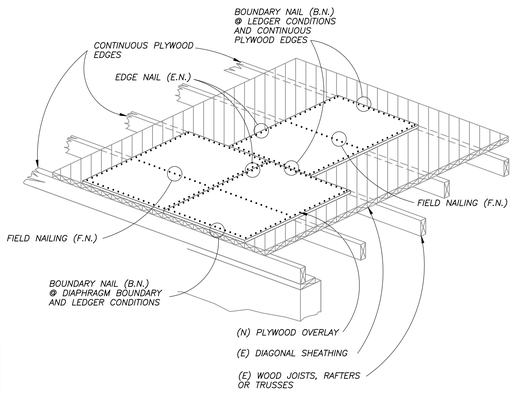
7



TYPICAL (N) INTERIOR SLAB REPLACEMENT

NO SCALE

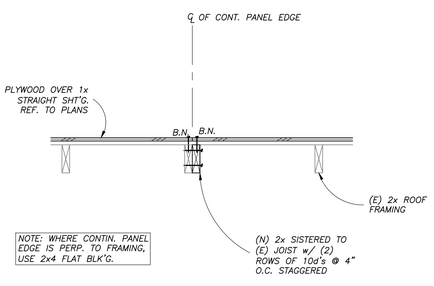
8



(N) PLYWOOD OVERLAY NAILING @ (E) DIAG. SHT'G

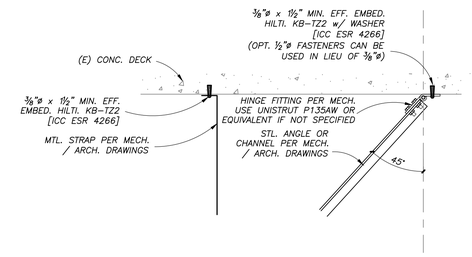
NO SCALE

3



TYPICAL BOUNDARY NAILING @ CONTINUOUS PANEL EDGES AT (E) 2x FRAMING

4



TYP. DUCT TO CONC DECK CONN.

NO SCALE

16

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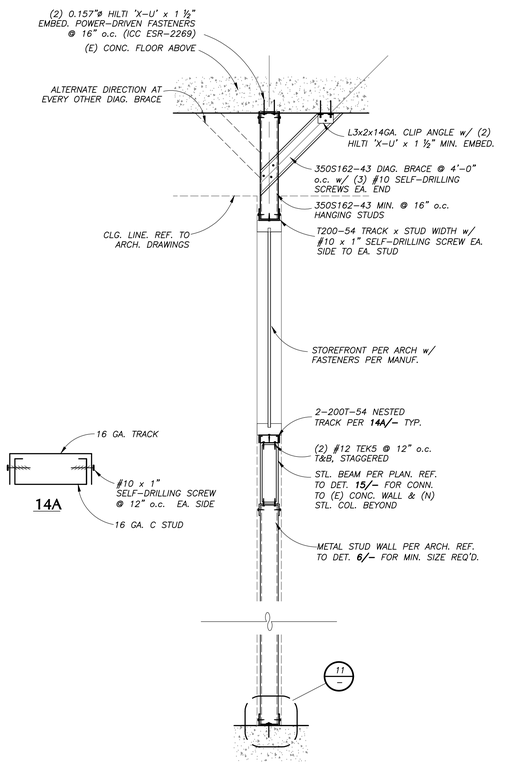
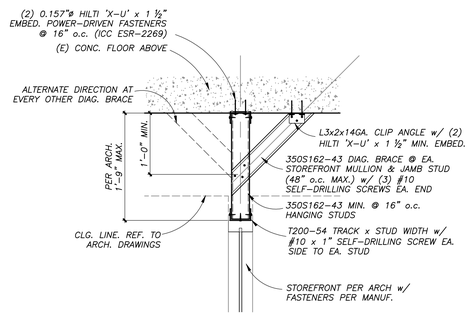
SHEET NO

S-101



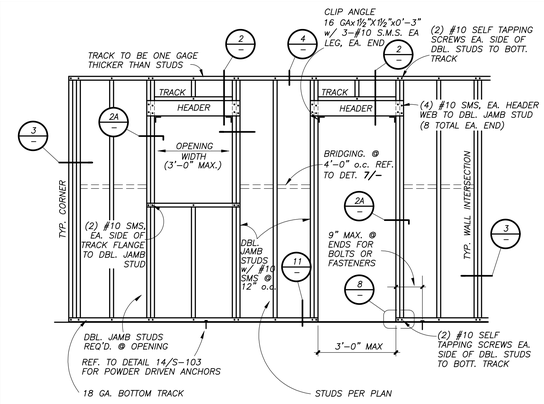
14A 14



TYP. HANGING STUD WALL TO CONC. SLAB CONNECTION @ STOREFRONT

NO SCALE

9



NON-BEARING INTERIOR WALL ELEVATION

NO SCALE

5

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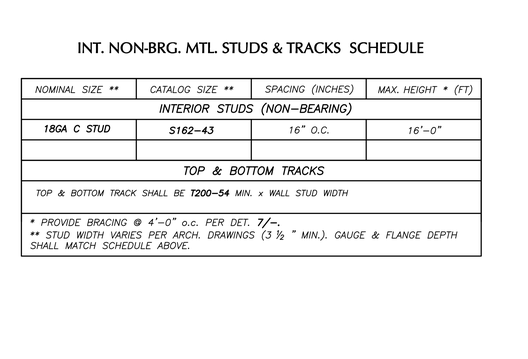
1



TYP. PARTIAL HT. WALL TO CONC. SLAB CONNECTION @ STOREFRONT

NO SCALE

10

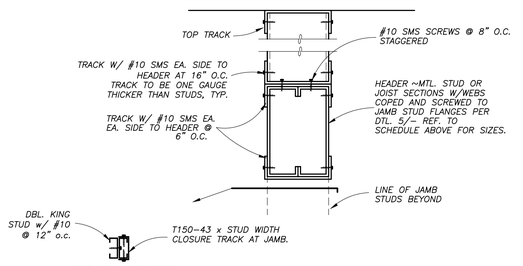
INT. NON-BRG. MTL. STUDS & TRACKS SCHEDULE

NOMINAL SIZE **	CATALOG SIZE **	SPACING (INCHES)	MAX. HEIGHT * (FT)
INTERIOR STUDS (NON-BEARING)			
18GA C STUD	S162-43	16" O.C.	16'-0"
TOP & BOTTOM TRACKS			
TOP & BOTTOM TRACK SHALL BE T200-54 MIN. x WALL STUD WIDTH			

* PROVIDE BRACING @ 4'-0" o.c. PER DET. 7/-.
** STUD WIDTH VARIES PER ARCH. DRAWINGS (3 ½ " MIN.). GAUGE & FLANGE DEPTH SHALL MATCH SCHEDULE ABOVE.

6

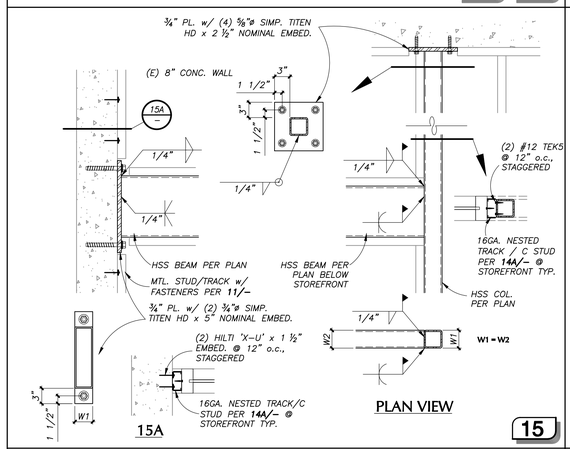
OPENING WIDTH	STUD "S162" SERIES	HEADER "T200" TRACK
UP TO 3'-6"	(2) 4" 18GA. "C" STUDS	18 GA. TOP & BOT. x WALL WIDTH



STEEL HEADER SCHEDULE

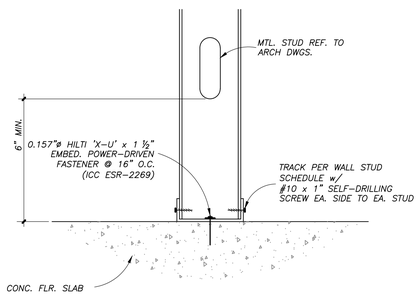
NO SCALE

2A 2



PLAN VIEW

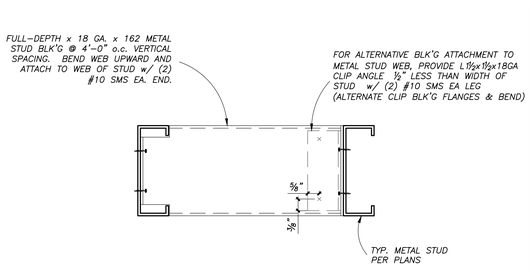
15



TYP. INT. NON-BRG. WALL TO CONC. SLAB CONN.

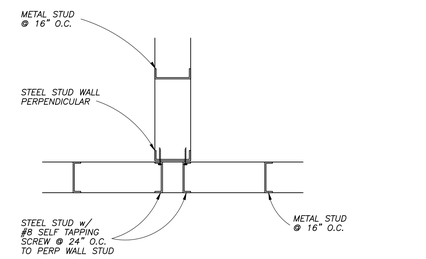
NO SCALE

11



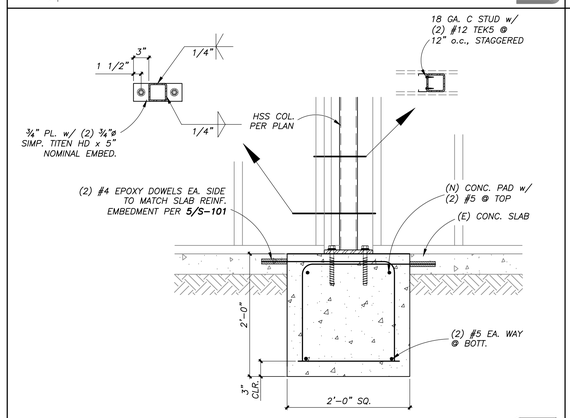
TYP. FULL-DEPTH BLOCKING @ MTL. STUD

7



STUD WALL CORNER/INTERSECTION

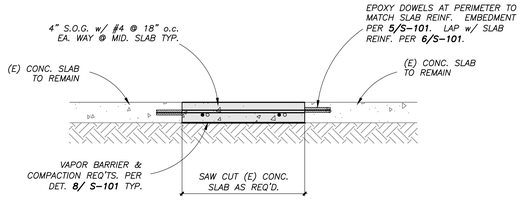
3



TYP. STL. COL. TO CONC. ANCHORAGE

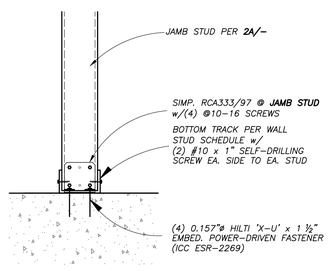
NO SCALE

16



TYP. SLAB PATCH @ (N) PLUMBING

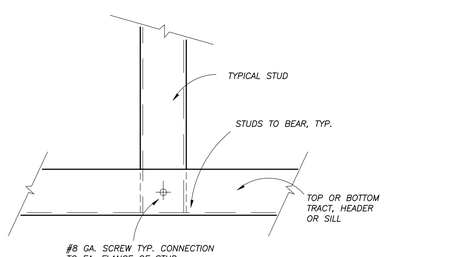
12



STEEL JAMB ASSEMBLY BOTTOM CONNECTION

NO SCALE

8



TYPICAL STUD TO TRACK CONNECTION

NO SCALE

4

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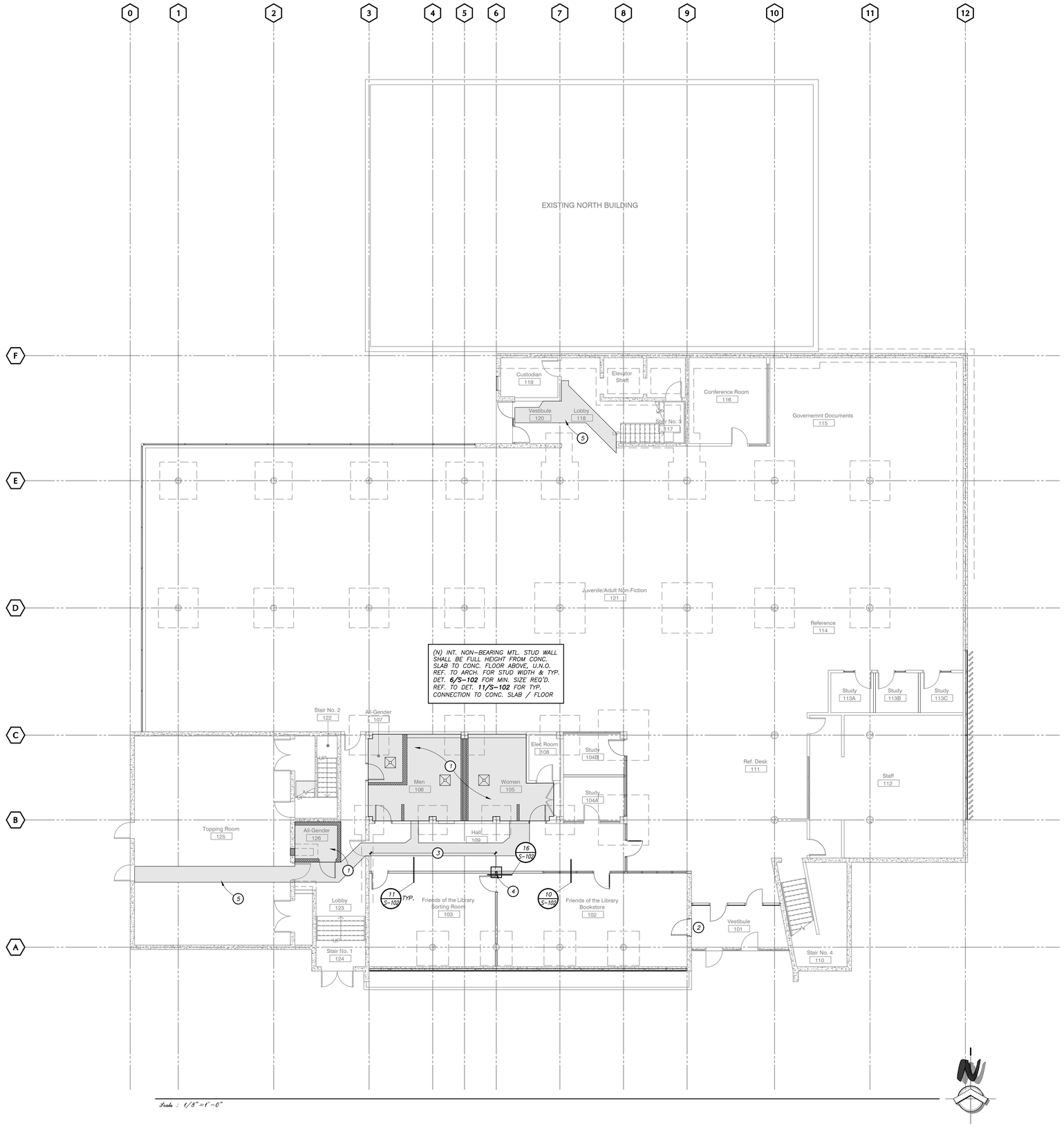
SHEET NO

S-102



FOUNDATION PLAN NOTES :

A. *REFER TO GENERAL NOTES SHEET* **S-001.**
B. *SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL WALL OPENINGS, SLOPED AND DEPRESSED SLABS, CONCRETE CURBS, ADDITIONAL EMBEDDED ITEMS NOT SHOWN ON THESE DRAWINGS. VERIFY ALL BUILDING DIMENSIONS, SLOPES AND DEPRESSED SLAB DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE BEGINNING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION.*
C. *SEE GENERAL NOTES AND SPECIFICATIONS FOR SPECIAL GRADING REQUIREMENTS UNDER FOOTINGS.*
D. *(E) INDICATES EXISTING*
(N) INDICATES NEW

FOUNDATION KEYED NOTES :

1. *(N) 4" CONC. SLAB-ON-GRADE PER TYP. DETS.* **8** *&* **12/S-101**
2. *(E) WINDOW TO BE REPLACED w/ (N) DOOR OF SAME WIDTH PER ARCH DRAWINGS. SAWCUT & REMOVE (E) CONC. WALL PORTION BELOW THE WINDOW AS REQ'D. REF. TO DET.* **13/S-101** *FOR MORE INFO.*
3. *(N) PARTIAL HT. MTL. STUD WALL PER ARCH. REF. TO DET.* **6/S-102** *FOR MIN. STUD SIZE REQ'D. & DET.* **14/S-102** *FOR CONNECTION TO STEEL BEAM ABOVE*
4. *(N) HSS3 ½x3 ½x5/16 FULL HT. COL. & (N) 2'-0" SQ. MIN. CONC. PAD CENTERED COL. REF. TO* **15/S-102** *FOR CONN. TO CONC. FLOOR ABOVE & DET.* **16/S-102** *FOR CONN. TO CONC. SLAB*
5. *DEMO. (E) CONC. SLAB AS REQ'D. AT (N) PLUMBING, & PATCH UP PER DET.* **12/S-102.** *REF. TO PLUMBING PLAN* **P3.0** *FOR LOCATIONS*

LEGEND :

- *(E) CONC. WALL*
- *(E) CONC. FTG.*
- *(N) CONC. S.O.G. PER DETS.* **8** *&* **12/S-101**
- *(N) MTL. STUD WALL PER PER ARCH. REF. TO DET.* **6/S-102** *FOR MIN. SIZE REQ'D.*
- *(N) STOREFRONT PER ARCH. REF. TO DET.* **9/S-102** *FOR CONNECTION TO HANGING STUD ABOVE,* **10/S-102** *FOR CONNECTION TO PARTIAL HT. WALL BELOW, &* **11/S-102** *FOR CONN. TO CONC. SLAB/FLOOR, TYP.*
- *(N) CONC. CURB PER DET.* **12/S-101**
- *(N) DRAIN PER DET.* **12/S-101**

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PROFESSIONAL SEALS

PERMIT APPROVAL STAMP

BID SET
10/14/2025

PERMIT NO -

NO	REVISION	DATE

PUBLIC WORKS PROJECT MANAGER
DEVI NALLAMALA

PRINCINPAL-IN-CHARGE
GREGORY H. STORK, SE

DRAWN BY	CHECKED BY
GHS	GHS
SWA JOB NO. 24018	**DATE** 07/11/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER

COUNTY PROJECT NUMBER

COUNTY DWG NO	SHEET ____ OF ____

SHEET TITLE

FOUNDATION PLAN

SHEET NO

S-201

2nd FLOOR / LOWER ROOF FRAMING PLAN

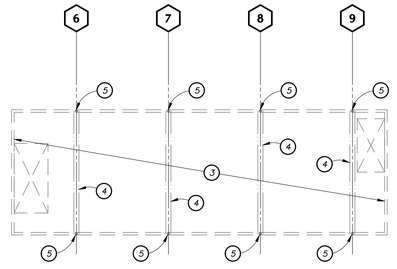
Scale : 1/8"=1'-0"

2nd FLOOR / LOWER ROOF PLAN NOTES :

A. REFER TO GENERAL NOTES SHEET **S-001**.
B. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR OPENINGS, SKYLIGHTS AND ROOF HATCHES.
C. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT AND ROOF OPENINGS FOR DUCTS.
D. UNLESS SPECIFICALLY NOTED ON THE PLANS, FRAMING SHALL NOT BE CUT OR RELOCATED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
E. UNLESS SPECIFICALLY NOTED ON THE PLANS, CONCRETE FLOOR SLABS OR WALLS SHALL NOT BE CORE-DRILLED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
F. LOADS:
   2nd FLOOR:
      DEAD LOAD = 110 psf
      LIVE LOAD = 50 psf
   LOWER ROOF:
      DEAD LOAD = 100 psf
      LIVE LOAD = 20 psf
G. DO NOT OVER CUT AT NOTCHES IN FRAMING.
H. FINAL LOCATION AND WEIGHTS OF MECHANICAL UNITS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO THE PREPARATION OF ROOF FRAMING SHOP DRAWINGS.
I. WHERE ROOF PITCH CREATES LOW SPOTS THAT WILL NOT PROPERLY DRAIN, PROVIDE CRICKETS TO ENSURE ADEQUATE ROOF DRAINAGE.
J. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF PLYWOOD ELEVATIONS, LOCATIONS OF RECESSED DRAIN PANS, HATCHES AND OTHER MISCELLANEOUS ITEMS. COORDINATE WITH FRAMING.
K. (E) INDICATES EXISTING
   (N) INDICATES NEW

2nd FLOOR / LOWER ROOF KEYED NOTES :

1. (E) 3 ½" CONC. ROOF DECK OVER 11" x 18" CONC. BEAMS @ 5'-0" o.c. TO REMAIN
2. AC UNIT PER MECH. DWGS. CENTER BETWEEN ADJACENT CONCRETE BEAMS BELOW. ANCHOR MANUF. ROOF CURB TO (E) CONC. ROOF DECK PER DET. **15/S-101**
3. DEMO (E) 5" CONC. MECHANICAL PLATFORM DECK
4. DEMO (E) DBL. 8I18.4 STEEL BEAMS
5. (E) STL. PIPE COLUMN TO REMAIN
6. (N) DUCT PENETRATION IN (E) CONC. ROOF DECK PER DET. **13/S-101**. NO REINF. REQUIRED AROUND (N) OPENING.
7. (N) HSS12x3 ½x⅜ STL. BEAM BELOW. REF. TO DETAILS **14 & 15/S-102**
8. (N) STL. COL. BELOW. REF. TO FOUNDATION PLAN FOR SIZE



MECHANICAL PLATFORM FRAMING PLAN

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

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REGISTERED PROFESSIONAL ENGINEER GREGORY H. STORK No. 48981 STATE OF CALIFORNIA

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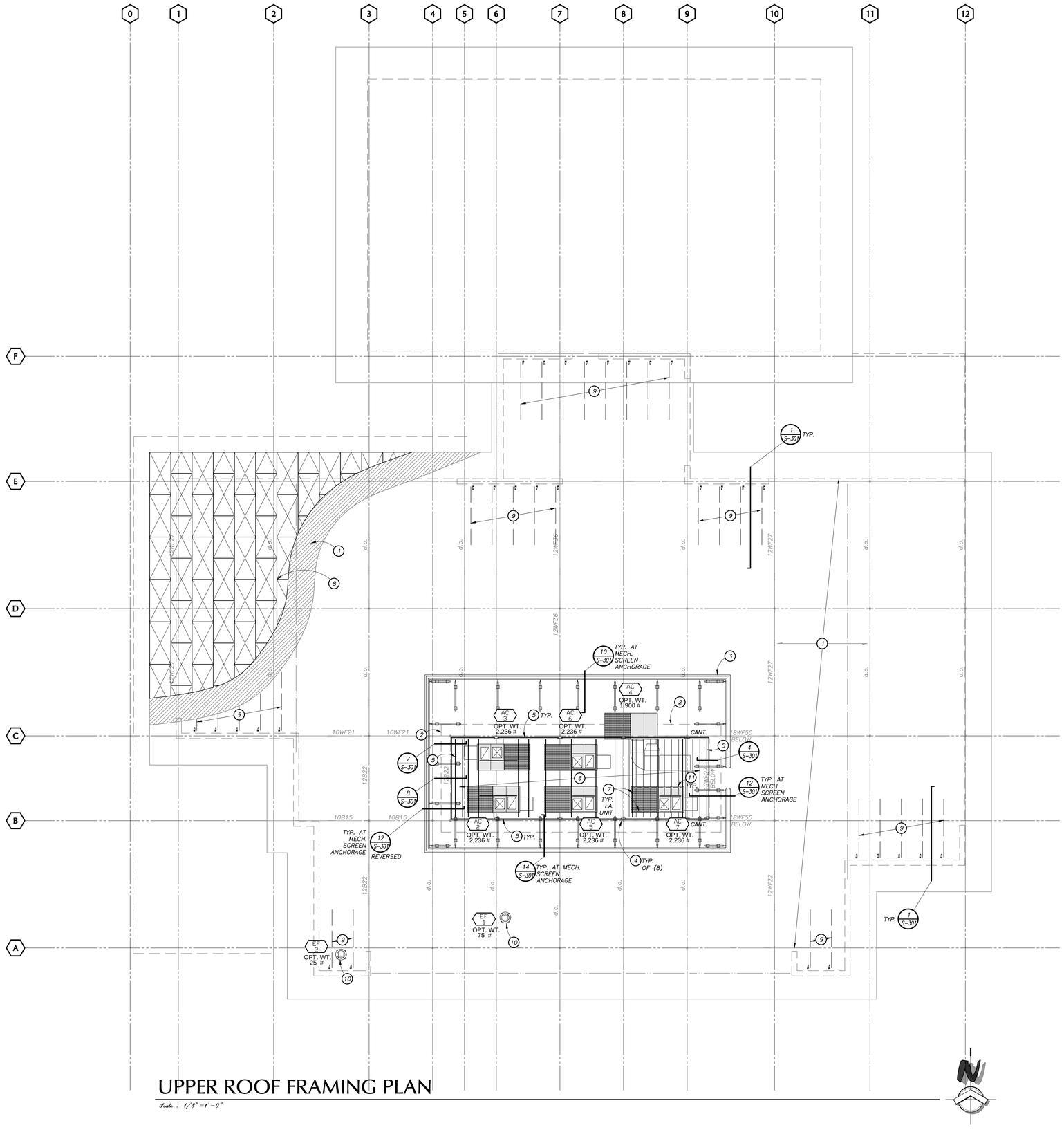
SHEET TITLE
2nd FLOOR/LOWER ROOF FRAMING PLAN

SHEET NO
S-202



UPPER ROOF FRAMING PLAN

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

UPPER ROOF PLAN NOTES :

A. REFER TO GENERAL NOTES SHEET **S-001**.
B. UNLESS SPECIFICALLY NOTED ON THE PLANS, FRAMING SHALL NOT BE CUT OR RELOCATED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
C. ROOF OVERLAY SHALL BE ½" STRUCTURAL I PLYWOOD OR OSB. PLACE FACE GRAIN PERPENDICULAR TO SUPPORTS PER TYPICAL DETAILS **3** & **4/S-301**. **CONTRACTOR TO VERIFY OR PROVIDE MIN. (2) 8d NAILS EA. (E) BOARD TO EA. SUPPORT PRIOR TO PROVIDING (N) PLYWOOD OVERLAY.**

   PROVIDE NAILING THRU THE PLYWOOD AND INTO THE 2x T&G BELOW AS FOLLOWS:

   BOUNDARY NAILING (B.N.) = 10d @ 6" o.c.
   EDGE NAILING (E.N.) = 10d @ 6" o.c.
   FIELD NAILING (F.N.) = 10d @ 12" o.c. EA. WAY

D. UPPER ROOF LOADS:
   DEAD LOAD = 22 psf
   LIVE LOAD = 20 psf
E. DO NOT OVER CUT AT NOTCHES IN FRAMING.
F. (E) INDICATES EXISTING
   (N) INDICATES NEW

UPPER ROOF KEYED NOTES :

1. (E) 2x T&G DIAG. SHEATHING OVER OPEN-WEB ROOF JOISTS @ 4'-0" o.c. TO REMAIN
2. DEMO (E) WOOD-FRAMED EQUIP. SHED ROOF & METAL STUD WALLS
3. EQUIP. SCREEN PER ARCH.
4. SIMP. 'CCO46' COLUMN CAP FIELD-WELDED TO END OF (E) STL. BEAM AT GRIDLINES 7 & 9 [DET. **2/S-301**] AND TO SIDE OF STL. COLUMN AT GRIDLINES 6 & 8 [DET. **3/S-301**]
5. 3.5x11.25 PARALLAM BEAM @ PERIMETER OF ROOF INFILL. SPLICE AT (N) SIMP. 'CCO' BUCKETS AS NEEDED **EXCEPT AT CANTILEVER**.
6. ⅝" PLYWOOD SHT'G. OVER 2x12 ROOF JOISTS @ 16" o.c. BETWEEN 4x BEAMS w/ SIMP. 'LUS210' EA. END TO HEADER OR PERIMETER PARALLAM
7. 4x12 CONTIN. OR BLK'G AROUND PERIMETER OF EA. AC UNIT & AT DUCT OPENINGS, TYP. ATTACH w/ SIMP. 'LUS410' TO PERP. HEADERS/BEAMS.
8. ½" PLYWOOD OVER (E) 2x DIAGONAL SHEATHING, TYP. OVER ENTIRE ROOF AREA
9. ANCHOR (E) CONC. WALL TO ROOF w/ SIMP. 'HDU' HOLDOWN @ 4'-0" o.c. WITH EXPOXY THREADED ROD TO (E) CONC. WALL. PROVIDE (3) BAYS OF 4x10 BLK'G w/ SIMP. 'CS14' STRAP
10. EXHAUST FAN UNIT PER MECH. DWGS. ANCHOR MANUF. ROOF CURB TO ROOF FRAMING BELOW PER DET. **2/M-300**
11. AC UNIT PER MECH. DWGS. ANCHOR MANUF. ROOF CURB TO ROOF FRAMING BELOW PER DET. **15/S-101**

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COUNTY SPEC NUMBER

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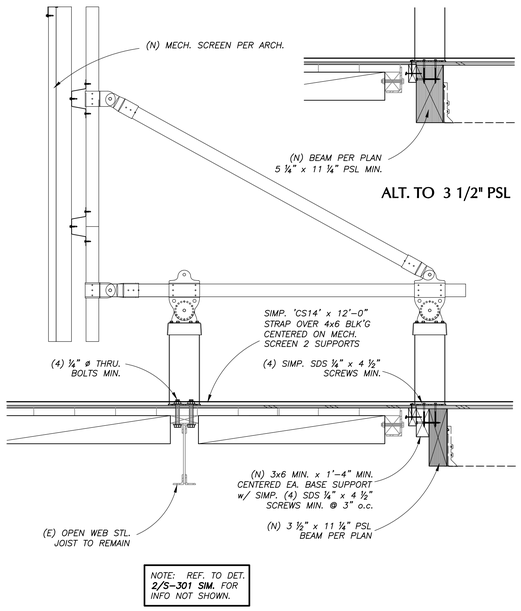
SHEET TITLE
UPPER ROOF FRAMING PLAN

SHEET NO
S-203



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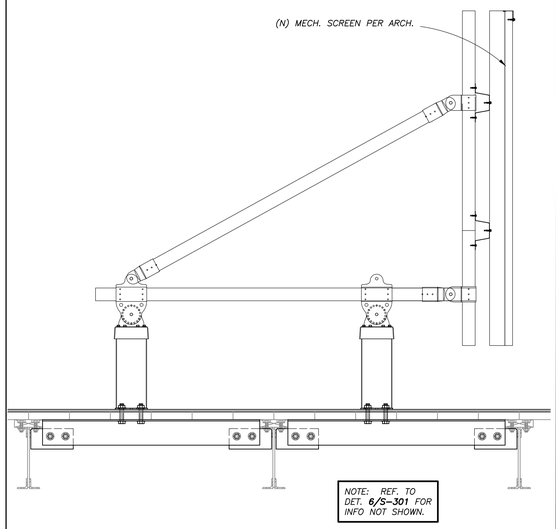

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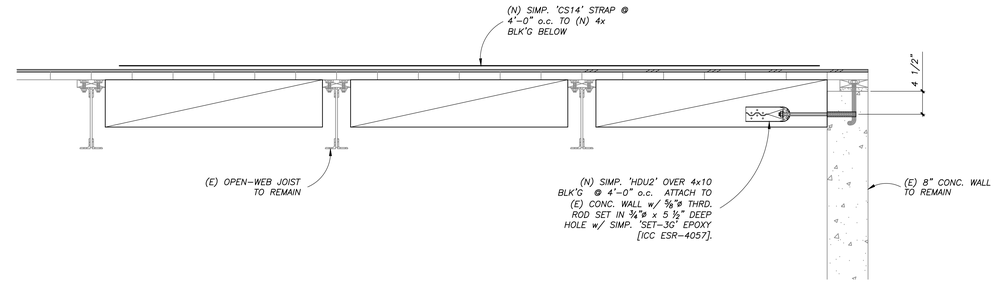

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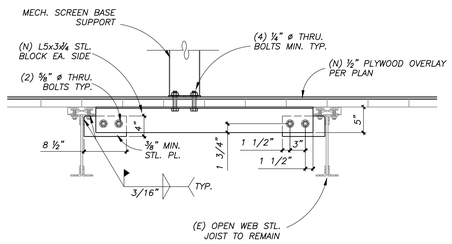

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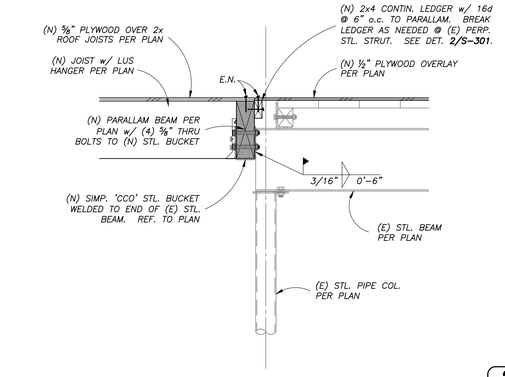

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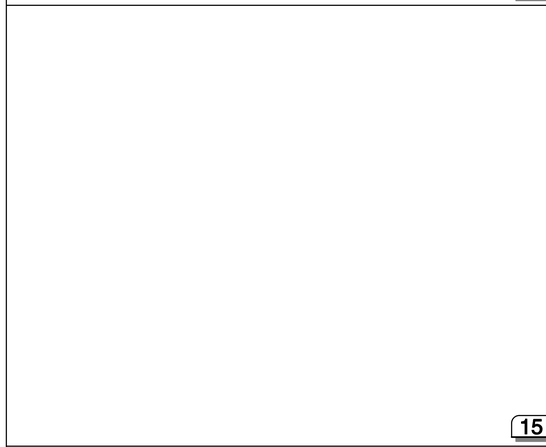

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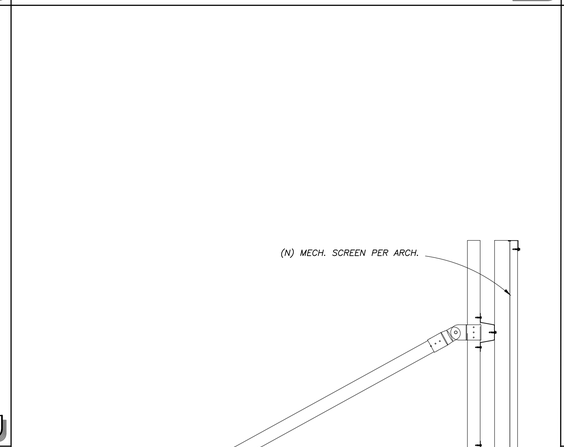

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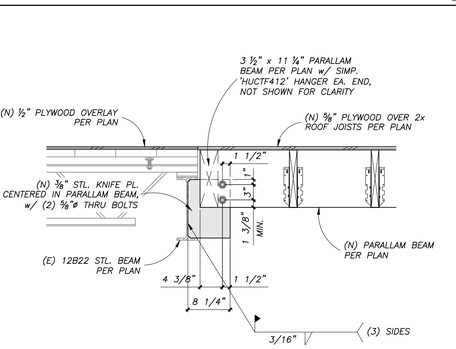

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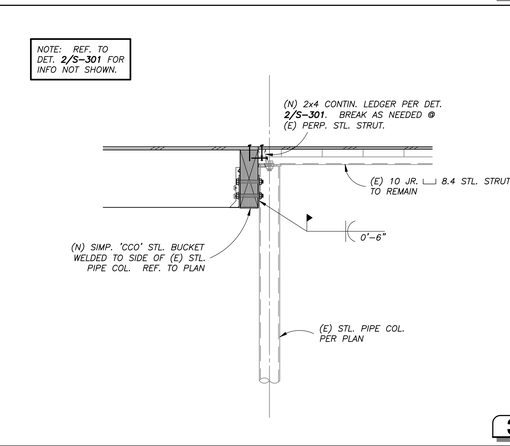

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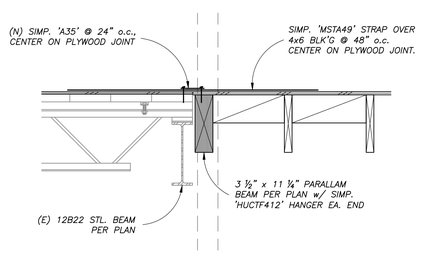

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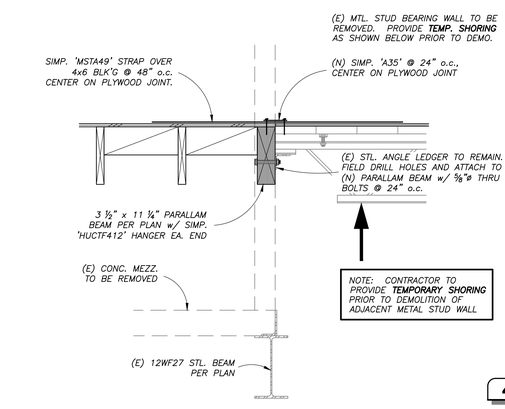

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1	OWNER CHANGES	08.11.25

PUBLIC WORKS PROJECT MANAGER
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COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE

STRUCTURAL DETAILS

SHEET NO

S-301

MECHANICAL & PLUMBING NOTES

1. SCOPE OF WORK: WORK INCLUDES THE FOLLOWING: FURNISH AND INSTALL ALL EQUIPMENT AND CONTROLS SHOWN ON THE MECHANICAL, STRUCTURAL, AND ELECTRICAL DRAWINGS AND DESCRIBED IN THESE NOTES, AND THE CONTRACT DOCUMENTS. WORK INCLUDES BUT IS NOT LIMITED TO: DEMOLITION OF EXISTING AIR HANDLER AND ASSOCIATED EQUIPMENT AND PIPING. DEMOLITION OF EXISTING DUCTWORK, DIFFUSERS AND CONTROLS. INSTALLATION OF NEW PACKAGED HEAT PUMP ROOFTOP UNITS, DUCTING, AIR DISTRIBUTION, CONTROLS; AND STARTUP AND COMMISSIONING OF SYSTEMS AS DESCRIBED IN THE CONTRACT DOCUMENTS. INCLUDED ARE ALL DEVICES NEEDED TO MAKE COMPLETE AND FUNCTIONAL SPACE CONDITIONING SYSTEMS AND CONTROLS. CONTRACTOR SHALL FURNISH AND INSTALL, MAKE OPERABLE, AND TEST ALL SYSTEMS AND MECHANICAL EQUIPMENT SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS AND CONTRACT DOCUMENTS. IN CONNECTION THEREWITH, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY DEVICES, HARDWARE, AND SYSTEMS REQUIRED TO MAKE SAID EQUIPMENT PROPERLY AND SAFELY OPERABLE, INCLUDING BUT NOT LIMITED TO, MOUNTING HARDWARE, INSULATION, DUCT SYSTEMS, REGISTERS/DIFFUSERS, CONTROL SYSTEMS, AND PATCHING AND PAINTING.

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT DOCUMENTS AND COST THEREOF. BIDDERS SHALL THOROUGHLY REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING WITHOUT LIMITATION, THE SPECIFICATIONS AND THE DRAWINGS. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY OF THE CONTRACT DOCUMENTS, FORMS, INSTRUMENTS, ADDENDA, OR OTHER DOCUMENTS OR TO INSPECT THE SITE SHALL NOT RELIEVE SUCH BIDDER FROM ANY OBLIGATIONS WITH RESPECT TO THE BID PROPOSAL, THE CONTRACT OR THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY TO ANY BIDDER FOR, NOR SHALL THE OWNER BE BOUND BY, ANY UNDERSTANDINGS, REPRESENTATIONS OR AGREEMENTS OF THE OWNER'S AGENTS, EMPLOYEES OR OFFICERS CONCERNING THE CONTRACT DOCUMENTS OR THE WORK MADE PRIOR TO EXECUTION OF THE CONTRACT.

3. INTERPRETATION OF DRAWINGS, SPECIFICATIONS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS; FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THE CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS, ORDINANCES AND/OR LAWS, A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER, PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY. ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE OWNER OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER IS AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION. FAILURE TO REQUEST INTERPRETATION OR CLARIFICATION OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS PURSUANT TO THE FOREGOING SHALL BE DEEMED TO BE A WAIVER OF ANY DISCREPANCY, DEFECT, OR CONFLICT THEREIN.

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), TITLE 24 2022 CALIFORNIA CODE OF REGULATIONS (CCR), 2022 CALIFORNIA BUILDING CODE, THE 2022 CALIFORNIA MECHANICAL CODE, THE 2022 CALIFORNIA PLUMBING CODE, THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, 2022 CALIFORNIA ELECTRIC CODE, 2022 CALIFORNIA FIRE CODE, & LOCAL REQUIREMENTS. EQUIPMENT MANUFACTURER'S RECOMMENDED PROCEDURES, AND STANDARD CONSTRUCTION PRACTICES. NOTE: ALL MECHANICAL EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH THE EQUIPMENT SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION AND GENERAL CONTRACTOR/OWNER. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, SPECIFICATIONS OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN.

NOTE: WHERE TWO OR MORE CODES CONFLICT, THE MOST RESTRICTIVE SHALL APPLY. NOTHING IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO APPLICABLE CODES.

6. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

7. SUBMITTALS REQUIRED: PRIOR TO ORDERING EQUIPMENT AND MATERIALS, CONTRACTOR SHALL FURNISH TO ENGINEER / OWNER SUBMITTALS AND SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ORDERING OF EQUIPMENT AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY CONTRACTOR / ENGINEER / OWNER. COPIES OF ALL OWNER'S MANUALS, WARRANTIES AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE PRESENTED TO OWNER PRIOR TO THE COMPLETION OF THE PROJECT.

8. UNIT LOCATIONS: EQUIPMENT AND SYSTEM LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS AND EXISTING CONDITIONS IN THE FIELD, AND LOCATE UNITS AND DUCTWORK TO AVOID INTERFERENCE. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. ALLOW CLEARANCE FOR DUCTWORK AND PIPING. ALL CLEARANCES REQUIRED BY UNIT MANUFACTURER SHALL BE MAINTAINED. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH CODES AND THE RECOMMENDED INSTALLATION PROCEDURES PUBLISHED BY THE MANUFACTURER.

9. DUCTWORK: CONTRACTOR SHALL INSTALL DUCTWORK IN THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWINGS. ALL DUCTWORK SHALL BE SECURELY ANCHORED TO THE BUILDING IN AN APPROVED MANNER THAT WILL RENDER IT ABSOLUTELY FREE FROM VIBRATION AND LATERAL MOVEMENT. ALL NECESSARY TRANSITIONS AND OFFSETS TO AVOID STRUCTURE & OTHER TRADES ARE NOT INTENDED TO BE SHOWN AND IT IS THE INTENT OF THIS PARAGRAPH THAT ALL TRANSITIONS AND OFFSETS REQUIRED TO INSTALL THE DUCTWORK TO AVOID OTHER TRADES AND STRUCTURE BE PROVIDED BY THE CONTRACTOR WITHOUT COST TO THE OWNER.

10. MATERIALS - DUCTWORK: ALL DUCTWORK FOR HVAC SYSTEMS SHALL BE GALVANIZED STEEL CONFORMING TO ASTM SPEC A653/A653M. (EXCEPTION: ACOUSTIC FLEXIBLE FIBERGLASS DUCTWORK SHALL BE USED FOR THE FINAL CONNECTION TO HVAC SYSTEMS).

ALL ROUND DUCTWORK SHALL BE GALVANIZED CONSTRUCTION WITH GAUGES AND CONNECTIONS AS FOLLOWS: UP TO 14" DIAMETER (INCLUDING FITTINGS) - 26 GAUGE WITH 2" CRIMP JOINT. OVER 14" TO 23" DIAMETER (INCLUDING FITTINGS) - 24 GAUGE WITH 2" CRIMP JOINT. OVER 23" TO 37" DIAMETER - 22 GAUGE. WHERE NECESSARY TO MAKE FIELD CONNECTIONS BETWEEN PLAIN END DUCT, SLIP JOINT CONNECTORS SHALL BE PROVIDED. JOINT CONNECTION AND SEALING: SHEET METAL SCREW ALL FIELD MADE JOINTS WITH A MINIMUM OF THREE SCREWS. SPACING OF SCREWS NOT TO EXCEED TWELVE INCHES ON CENTER. COVER ALL FIELD MADE JOINTS WITH HARDCAST "IRON-GRIP 601" PREMIUM FLEXIBLE WATER BASED DUCT SEALANT. FITTINGS AT RECTANGULAR DUCT TAKEOFF SHALL BE SPIN-IN TYPE, COMPLETE WITH LOCKING TYPE VOLUME DAMPERS AT ALL LOCATIONS WHETHER SHOWN ON THE PLANS OR NOT. EXPOSED SPIRAL DUCTS SHALL HAVE SPIRALMATE CONNECTIONS.

RECTANGULAR DUCTWORK SHALL BE MADE FROM GALVANIZED STEEL SHEETS. DUCT CONSTRUCTION, AND REINFORCING SHALL BE PER TABLE 6-1 OF THE 2022 CALIFORNIA MECHANICAL CODE. DUCTWORK SHALL BE OF THE FOLLOWING GAUGES: UP TO 12" - 26 GAUGE. 13"-30" - 24 GAUGE. EXTERIOR DUCTWORK SHALL BE GALVANIZED COATED MEETING THE ASTM G-90 REQUIREMENTS. RECTANGULAR DUCTING SHALL BE CONNECTED WITH DUCTMATE 35 CONNECTORS.

CURVED ELBOWS SHALL HAVE CENTRALIZE RADIUS NOT LESS THAN THE WIDTH OF THE DUCT. WHERE ABRUPT TURNS AND ELBOWS ARE USED, TURNING VANES SHALL BE PROVIDED. TAKEOFFS FROM MAIN DUCTS SHALL BE MADE WITH 45 DEGREE ANGLES WITH VOLUME DAMPERS WHERE SHOWN. ALL PANELS SHALL BE CROSS BROKEN TO ENSURE RIGIDITY.

11. DUCT SUPPORTS AND HANGERS: DUCT SUPPORTS SHALL BE PER THE 2022 CALIFORNIA MECHANICAL CODE. RECTANGULAR DUCTS WITH A MAXIMUM SIZE NOT EXCEEDING 30" AND ALL ROUND DUCTS SHALL BE SUPPORTED WITH ONE INCH WIDE 18 GAUGE HANGER STRAPS. SUPPORTS SHALL BE LOCATED ON TWO OPPOSITE SIDES OF THE DUCT, SHALL BE METAL SCREWED TO THE SIDES AND BOTTOM OF THE DUCT, SHALL BE SPACED AT NOT MORE THAN 7'-8" ON CENTERS AND SHALL BE LATERALLY BRACED. SECURE STRAPS TO STRUCTURAL FRAMING PER SMACNA STDS.

12. DUCT INSULATION: CONCEALED SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH 2" THICK, THREE QUARTER POUND PER CUBIC FOOT FOIL SCRIMP VAPOR BARRIER FACED FIBERGLASS FLEXIBLE DUCT INSULATION. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSULATION SHALL HAVE A MINIMUM INSULATION OF R-8. SUPPLY AND RETURN AIR PLENUMS AND OTHER DUCTWORK WHERE INDICATED SHALL BE INTERNALLY LINED WITH 1" THICK LINER. LINER SHALL BE 1-1/2 POUND PER CUBIC FOOT DENSITY GLASS FIBER DUCT LINER WITH A VINYL COATING, WITH A FLAME SPREAD OF LESS THAN .25 AS PER NFPA NO 90A. EXTERIOR DUCTWORK SHALL BE INTERNALLY LINED WITH 2" THICK LINER.

13. VOLUME DAMPERS: LOCKING SHEET METAL VOLUME DAMPERS SHALL BE INSTALLED AT THE POINT OF TAKEOFF FROM MAIN DUCTING AT ALL LOCATIONS SHOWN ON PLANS AND ELSEWHERE AS NECESSARY FOR PROPER BALANCING OF THE SYSTEM. BALANCING AT DIFFUSERS OR RETURN AIR GRILLES ONLY WILL NOT BE PERMITTED. PROVIDE & LOCATE POTTORFF RCS REMOTE DAMPER ADJUSTMENT OR ACCESS DOORS AS REQUIRED FOR BALANCING AFTER FINISH SURFACES ARE INSTALLED.

14. BALANCING: FOLLOWING INSTALLATION, CONTRACTOR SHALL START UP AND BALANCE ALL HVAC SYSTEMS TO CONFORM TO AIR VOLUMES INDICATED ON PLANS. ADJUST SUPPLY & RETURN GRILLES AND REGISTERS FOR OPTIMAL AIR DISTRIBUTION. COPIES OF BALANCING RECORDS SHALL BE FURNISHED TO BUILDING OWNER AND PROJECT ENGINEER. UNIT FANS SHALL OPERATE AT CONSTANT SPEED.

15. VIBRATION ISOLATION: INSTALL FLEXIBLE CONNECTIONS BETWEEN MECHANICAL EQUIPMENT AND DUCTWORK. SEE MECHANICAL DETAILS & SPECIFICATIONS FOR SPECIFIC TYPE.

16. COORDINATION: MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH GENERAL CONTRACTOR AND ALL RELATED TRADES. COORDINATION OF EXACT LOCATIONS AND ELEVATIONS TO AVOID CONFLICTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

17. CLEANUP: EVERY DAY, AND AFTER ALL WORK HAS BEEN COMPLETED, CONTRACTOR SHALL CLEAN ENTIRE JOBSITE OF ALL DEBRIS ASSOCIATED WITH MECHANICAL SYSTEMS. EXPOSED PARTS WHICH ARE TO BE PAINTED SHALL BE THOROUGHLY CLEANED READY FOR PAINTING.

18. WIRING: ALL WIRING SHALL BE PERFORMED IN ACCORDANCE WITH NEC REQTS. ALL WIRING SHALL BE IN CONDUIT. ALL INTERIOR LOW VOLTAGE AND CONTROL WIRING SHALL BE IN WIREMOLD AND IN FAN ROOMS SHALL BE IN CONDUIT. EXPOSED CONDUIT SHALL BE INSTALLED IN A SQUARE, PLUMB, AND LEVEL MANNER WITH THOUGHT GIVEN TO THE FINAL APPEARANCES. PROVIDE TO ENGINEER SHOP DRAWING FOR CONTROL TRANSFORMER CONFIGURATIONS DETAILING CIRCUITS TO BE USED, LOAD CALCULATIONS, WIRE SIZES, AND LOCATIONS. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRICAL CODE AND ELECTRICAL SPECIFICATIONS. ALL TRANSFORMERS SHALL BE PROTECTED BY PROPERLY SIZED CIRCUIT BREAKER OR FUSE(S). ALL TRANSFORMERS SHALL HAVE RESETABLE BREAKER ON THE LOAD SIDE. ALL LOW VOLTAGE CONTROL & COMMUNICATIONS WIRING SHALL BE DONE ACCORDING TO MANUFACTURERS INSTALLATION MANUAL. PROVIDE SUBMITTALS ON WIRE AND ENCLOSURES.

19. EXISTING CONDITIONS: THE CONTRACTOR SHALL PROMPTLY INFORM THE PROJECT MANAGER IN WRITING OF ANY EXISTING CONDITION THAT COMPROMISES SAFETY INCLUDED BUT NOT LIMITED TO; ELECTRICAL, DUCT, PIPE OR EQUIPMENT SUPPORT, OR STRUCTURAL. IF ANY DEVICE, ELECTRICAL OR MECHANICAL, DOES NOT FUNCTION PROPERLY, THE CONTRACTOR SHALL PROMPTLY INFORM THE PROJECT MANAGER IN WRITING OF THE NATURE OF THE FAILURE, ANY PROPOSED REMEDY, AND THE COST OF REPAIR OR REPLACEMENT. CONTRACTOR SHALL INSPECT ALL VISIBLE EQUIPMENT AND PROVIDE A WRITTEN REPORT ON ANY DEFICIENCY.

20. WARRANTY: THE CONTRACTOR SHALL WARRANT THAT ALL SYSTEMS, SUBSYSTEMS, COMPONENT PARTS, AND DATABASE SOFTWARE ARE FULLY FREE FROM DEFECTIVE DESIGN, MATERIALS, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

21. ALL MECHANICAL SYSTEMS SHALL BE CLEARLY & PERMANENTLY LABELED. LABEL SHALL DETAIL THE AREA SERVED & UNIT TAG.

22. CORRECTION OF WORK: THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK THE OWNER OR ENGINEER FINDS DEFECTIVE OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BEAR ALL COSTS REQUIRED BY THE CONTRACT DOCUMENTS, IF ANY OF THE WORK IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF A WRITTEN NOTICE FROM THE OWNER TO DO SO.

23. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER PRIOR TO ACCEPTANCE OF THE PROJECT. INCLUDED IN THE AS-BUILTS SHALL BE DOCUMENTATION AND TWO COPIES OF THE ANNOTATED PROGRAMMING ON MAGNETIC MEDIA AND PRINTED SHEETS.

24. COMMISSIONING: CONTRACTOR SHALL CONFIRM THAT BUILDING SYSTEMS HAVE BEEN INSTALLED, PROPERLY STARTED, AND CONSISTENTLY OPERATED IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS, THAT ALL SYSTEMS ARE COMPLETE AND FUNCTIONING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT SUBSTANTIAL COMPLETION, AND THAT CONTRACTOR HAS PROVIDED OWNER ADEQUATE SYSTEM DOCUMENTATION AND TRAINING. COMMISSIONING INCLUDES DEFERRED AND/OR SEASONAL TESTS AS APPROVED BY OWNER.

25. GREEN CODE. ALL REQUIREMENTS OF THE 2022 CALIFORNIA GREEN CODE SECTION 5.410 SHALL BE COMPLIED WITH, INCLUDING COMMISSIONING, FUNCTIONAL PERFORMANCE TESTING, AND DOCUMENTATION AND TRAINING FOR ALL HVAC SYSTEMS. PROVIDE TRAINED CONTROL TECHNICIAN FOR 4 HOURS TO DEMONSTRATE TO ENGINEER THAT ALL ELEMENTS ARE FUNCTIONING PROPERLY.

26. ALL WORK SHALL BE PERFORMED BY TRAINED AND QUALIFIED WORKERS. THE INSTALLATION SHALL BE EQUAL OR BETTER TO THE STANDARD OF CARE FOR THE RESPECTIVE TRADE. WORK SHALL BE NEAT AND CLEAN.

27. PIPING LOCATIONS: PIPING LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL LATERAL STUBS, OFFSETS, OBSTRUCTIONS, ETC. REQUIRED IN THE FIELD. THE ACTUAL LOCATIONS OF LINES, CLEANOUTS AND CONNECTIONS MAY VARY PROVIDED THAT COMPLETE SYSTEMS ARE SIZED AND INSTALLED IN COMPLIANCE WITH CODES. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO INSTALLATION.

28. CONDENSATE DRAINS: ALL CONDENSATE DRAINS SHALL BE U.S. MANUFACTURED TYPE "L" HARD COPPER, SLOPED AT 1/8" PER FOOT MINIMUM. DRAINS SHALL DISCHARGE WHERE INDICATED INTO AN APPROVED INDIRECT WASTE RECEPTOR. INSULATE ALL INTERIOR CONDENSATE PIPING WITH ARMAFLEX 1/2" WALL CLOSED CELL INSULATION. SUPPORT ROOFTOP CONDENSATE PIPING ON GALVANIZED DURABLOCK STRUT SUPPORTS.

29. PIPING SUPPORT: ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA PLUMBING CODE. HORIZONTAL CONDENSATE DRAINS SHALL BE HUNG WITH SUPERSTRUT C-727-F ADJUSTABLE FELT-LINED PIPE HANGERS, THREADED ROD, AND BEAM ATTACHMENT BRACKETS, LOCATED AT SIX FOOT MAXIMUM INTERVALS. VERTICAL CONDENSATE DRAINS SHALL BE SUPPORTED AT THEIR BASES AND AT EACH STORY OR AT TEN FOOT MAXIMUM INTERVALS. TO PREVENT SWAYING, PROVIDE LATERAL BRACING AT SIX FOOT INTERVALS ANCHORED TO OVERHEAD FRAMING.

30. CAP EXISTING GAS PIPING AFTER EXTERIOR SHUT OFF VALVE ONCE ALL FUEL BURNING EQUIPMENT HAS BEEN REMOVED.

31. MAINTAIN A MINIMUM OF TEN FT. OF CLEARANCE BETWEEN ANY AIR INTAKE AND ALL SEWER VENTS. COORDINATE WITH PLUMBING CONTRACTOR.

32. ROOF CURBS AND FLASHINGS SHALL MATCH ROOF SLOPE AND SHALL BE TALL ENOUGH FOR NEW 4" ROOF INSULATION WITH 8" ABOVE ROOF SURFACE.

GREEN BUILDING NOTES

1. GENERAL CONTRACTOR SHALL ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. WASTE MANAGEMENT PLAN SHALL:
A.) IDENTIFY THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
B.) DETERMINE IF MATERIAL WILL BE SORTED ON-SITE OR MIXED
C.) IDENTIFY DIVERSION FACILITIES WHERE MATERIALS COLLECTED WILL BE TAKEN.
D.) SPECIFY THE AMOUNT OF MATERIALS DIVERTED WHICH SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BOTH.

2. RECYCLE WASTE MATERIAL BEING REMOVED FROM SITE TO THE GREATEST EXTENT POSSIBLE. RECORD ALL AMOUNTS DISPOSED AND ALL AMOUNTS RECYCLED.

3. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION: AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING 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 DUCT OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PER THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, C.G.B.S.C., SECTION 5.504.3

GENERAL NOTES

1. CUTTING, BORING SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE ARCHITECT & THE ENGINEER.

2. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY THE ENGINEER.

3. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY THE ENGINEER.

WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT & THE MECHANICAL ENGINEER.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

4. BEFORE WORK BEGINS, CONTRACTOR SHALL COORDINATE WITH OWNER ON TYPE OF ASBESTOS CONTAINING MATERIAL (ACM). CONTRACTOR SHALL FOLLOW OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) GUIDELINES.

5. EXPOSED INTERIOR DUCTWORK SHALL BE PRIMED AND PAINTED. COLOR BY ARCHITECT ALL SURFACE SHALL BE CLEANED AND PREPARED PER PAINT MANUFACTURER'S REQUIREMENTS.. PRIME WITH DUNN EDWARDS ULTRASHIELD METAL PRIMER AND PAINT WITH DUNN EDWARDS ULTRASHIELD PAINT.

CONTROL NOTES

1. CONTROLS SHALL BE JOHNSON FX AND INSTALLED BY A TRAINED JOHNSON CONTROLS CONTRACTOR. THE CONTROL WORK SHALL INCLUDE ALL CONDUIT, WIRE, CONNECTIONS, CONTROLLERS, THERMOSTATS, PROGRAMMING, GRAPHICS, AND USER INTERFACE

2. ALL WIRE SHALL BE IN CONDUIT SUITABLE FOR THE INSTALLED LOCATION. ROOFTOP CONTROLLERS SHALL BE IN NEMA 3R ENCLOSURES.

3. INSTALL ROUTER IN IT ROOM AND PROVIDE PATCH CABLE TO CONNECT INTO LIBRARY'S NETWORK. REQUEST IP ADDRESS FROM OWNER. PROVIDE PROGRAMMING AND SOFTWARE LICENSE ON OWNER'S COMPUTER FOR INTERFACE WITH THERMOSTATS AT OWNER'S HEADQUARTERS AND ON SITE.

4. FUNCTION TEST ALL EQUIPMENT IN ALL MODES OF OPERATION AND PROVIDE REPORT TO ENGINEER WITH RESULTS OF TESTS. REPORT SHALL INCLUDE SUPPLY AIR TEMPERATURES AT EACH MODE.

5. ALL UNITS SHALL SHUTDOWN IF SMOKE IS DETECTED VIA FIRE ALARM SHUTDOWN. INTERLOCK FIRE SMOKE DAMPER POSITION SWITCHES TO SHUTDOWN UNITS IF DAMPER CLOSES.

6. PROVIDE 3 HOURS OF OWNER'S TRAINING ON SYSTEM.

ENERGY NOTES

1. DUCT SEALING AND LEAKAGE TESTING: JOINTS AND SEAMS FOR DUCT SYSTEMS SHALL COMPLY WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE. DUCT SYSTEMS SHALL BE SEALED PER CMC SECTION 603.10.1.
DUCTWORK SHALL BE LEAK-TESTED IN ACCORDANCE WITH THE SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. REPRESENTATIVE SECTIONS TOTALING NOT LESS THAN 10 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED. WHERE THE TESTED 10 PERCENT FAIL TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION, THEN 40 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED. WHERE THE TESTED 40 PERCENT FAIL TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION, THEN 100 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED. SECTIONS SHALL BE SELECTED BY THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. POSITIVE PRESSURE LEAKAGE TESTING SHALL BE PERMITTED FOR NEGATIVE PRESSURE DUCTWORK. THE PERMITTED DUCT LEAKAGE SHALL BE NOT MORE THAN THE FOLLOWING:

$L_{max} = C_L\ P^{0.65}$ (Equation 603.10.1)

WHERE:
L_{max} = MAXIMUM PERMITTED LEAKAGE, (ft3/min)/100 SQUARE FEET [0.0001 (m3/s)/m2] DUCT SURFACE AREA.
C_L = SIX, DUCT LEAKAGE CLASS, (ft3/min)/100 SQUARE FEET [0.0001 (m3/s)/m2] DUCT SURFACE AREA AT 1 INCH WATER COLUMN (0.2 kPa).
P = TEST PRESSURE, WHICH SHALL BE EQUAL TO THE DESIGN DUCT PRESSURE CLASS RATING, INCH WATER COLUMN (kPa).

2. THE CALIFORNIA CEnC SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, SOLAR, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH CEnC.
MECHANICAL SYSTEMS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL (ATT) FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER, 1, 2021.
A LISTING OF CERTIFIED ATT'S CAN BE FOUND ON THE CALIFORNIA ENERGY COMMISSION'S ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDERS WEBPAGE.
THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
THE LIST OF REQUIRED ACCEPTANCE TEST IS FOUND UNDER *DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE* IN THE LAST PAGES OF THE ENERGY COMPLIANCE REPORT.

3. SEE ENERGY NOTES FOR REQUIRED FORMS TO BE COMPLETED AT THE END OF THE PROJECT. THIRD PARTY TESTING IS REQUIRED.

SEE MECH. SCHEDULE FOR DESCRIPTIONS	
⌈	VOLUME DAMPER
⫯	BACKDRAFT DAMPER
▚	POINT OF DISCONNECTION
◕	POINT OF CONNECTION
Ⓣ AC–X	THERMOSTAT
◺	RETURN AIR PLENUM (2" LINED)
⧗	SUPPLY AIR PLENUM (2" LINED)
⬡ X 1	EQUIPMENT TAG SEE MECH. SCHEDULE
═·═	INSULATED DUCT
═ ═	LINED DUCT
- - -	DUCT TO BE DEMOLISHED
☒	SUPPLY
⧄	RETURN
⧅	TRANSFER
⊠	EXHAUST

ABBREVIATIONS

ABBREV.	ABBREVIATIONS
ABV.	ABOVE
APPROX.	APPROXIMATELY
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BLDG	BUILDING
BLW.	BELOW
BTM	BOTTOM
BTR	BETTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CL	CENTERLINE
CLG	CEILING
CONC	CONCRETE
COND	CONDENSATE
CONT	CONTINUED
DF	DOUGLAS FIR
DIA	DIAMETER
DN	DOWN
DSA	DIVISION OF THE STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA	EXHUST AIR
EL,ELEV	ELEVATION
ELEC	ELECTRIC
EQ	EQUIPMENT
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
FIN	FINISHED
FLR	FLOOR
FRM	FROM
G	GAS
GDW	GYPSUM DRYWALL
GPM	GALLONS PER MINUTE
GSM	GALVANIZED STEEL METAL
HDG	HOT DIPPED GALVANIZED
HP	HORSE POWER
(L)	ACOUSTICAL LINING
MIN.	MINIMUM
MEZZ.	MEZZANINE
MAX.	MAXIMUM
MTL	METAL
(N)	NEW
(NC)	NORMALLY CLOSED
OC	ON CENTER
OSA	OUTSIDE AIR
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECTION
PT	PRESSURE TREATED
RA	RETURN AIR
RAG	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SHT	SHEET
SMS	SHEET METAL SCREW
SR	SIDEWALL REGISTER
SOV	SHUT-OFF VALVE
SPEC	SPECIFICATIONS
STL	STEEL
UGND	UNDERGROUND
VD	VOLUME DAMPER (LOCKING)
VTR	VENT TO ROOF
VAV	VARIABLE AIR VOLUME BOX
VFD	VARIABLE FREQUENCY DRIVE
WC	WATER COLUMN
(TYP)	TYPICAL

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SHEET TITLE
MECHANICAL NOTES

SHEET NO
M-001

ROOFTOP HEAT PUMP UNIT SCHEDULE -

TAG	SERVING ROOM	MAKE & MODEL	EER	CFM	OSA CFM	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH) @30°F	ELEC. RES. HEATING 18.0 KW (BTUH)	ELECTRICAL DATA UNIT W/ ELEC. RES. HEAT			OPERATING WEIGHT W/ CURB (LBS)	ACCESSORIES	ANCHORAGE DETAIL	DUCT SMOKE SHUTDOWN
									POWER	MCA	MOCP				
AC 1	ZONE 1	YORK WP150E18R2A	10.8	5,000	1,500	156,000	98,900	18 KW (61,418)	460-3-60	59.4	60	1,813	R-454B REFRIG., E-COAT COND. COILS, VFD 2 STAGE HI STATIC, DOWN DISCHARGE. W/ A2L REFRIGERATION LEAK DETECTION SYSTEM 18 KW ELEC. HEAT, & 2" MERV 13 FILTERS. PROVENT 14" CALCULATED VIBRATION ISOLATION ROOF CURB.	5/M-300	SMOKE DETECTOR (SD/1)
AC 2	ZONE 2	YORK WP150E18R2A	10.8	5,000	550	156,000	98,900	18 KW (61,418)	460-3-60	59.4	60	1,813	R-454B REFRIG., E-COAT COND. COILS, VFD 2 STAGE HI STATIC, DOWN DISCHARGE. W/ A2L REFRIGERATION LEAK DETECTION SYSTEM 18 KW ELEC. HEAT, & 2" MERV 13 FILTERS. PROVENT 14" CALCULATED VIBRATION ISOLATION ROOF CURB.	5/M-300	SMOKE DETECTOR (SD/1)
AC 3	ZONE 3	YORK WP150E18R2A	10.8	5,000	650	156,000	98,900	18 KW (61,418)	460-3-60	59.4	60	1,813	R-454B REFRIG., E-COAT COND. COILS, VFD 2 STAGE HI STATIC, DOWN DISCHARGE. W/ A2L REFRIGERATION LEAK DETECTION SYSTEM 18 KW ELEC. HEAT, & 2" MERV 13 FILTERS. PROVENT 14" CALCULATED VIBRATION ISOLATION ROOF CURB.	5/M-300	SMOKE DETECTOR (SD/1)
AC 4	ZONE 4	YORK WP150E18R2A	10.8	5,000	900	156,000	98,900	18 KW (61,418)	460-3-60	59.4	60	1,813	R-454B REFRIG., E-COAT COND. COILS, VFD 2 STAGE HI STATIC, SIDE DISCHARGE. W/ A2L REFRIGERATION LEAK DETECTION SYSTEM 18 KW ELEC. HEAT, & 2" MERV 13 FILTERS. PROVENT 14" CALCULATED VIBRATION ISOLATION ROOF CURB.	5/M-300	SMOKE DETECTOR (SD/1)
AC 5	ZONE 5	YORK WP150E18R2A	10.8	5,000	670	156,000	98,900	18 KW (61,418)	460-3-60	59.4	60	1,813	R-454B REFRIG., E-COAT COND. COILS, VFD 2 STAGE HI STATIC, DOWN DISCHARGE. W/ A2L REFRIGERATION LEAK DETECTION SYSTEM 18 KW ELEC. HEAT, & 2" MERV 13 FILTERS. PROVENT 14" CALCULATED VIBRATION ISOLATION ROOF CURB.	5/M-300	SMOKE DETECTOR (SD/1)
AC 6	ZONE 6	YORK WP150E18R2A	10.8	5,000	550	156,000	98,900	18 KW (61,418)	460-3-60	59.4	60	1,813	R-454B REFRIG., E-COAT COND. COILS, VFD 2 STAGE HI STATIC, DOWN DISCHARGE. W/ A2L REFRIGERATION LEAK DETECTION SYSTEM 18 KW ELEC. HEAT, & 2" MERV 13 FILTERS. PROVENT 14" CALCULATED VIBRATION ISOLATION ROOF CURB.	5/M-300	SMOKE DETECTOR (SD/1)
AC 7	ZONE 7	YORK WP150E18R2A	10.8	5,000	600	156,000	98,900	18 KW (61,418)	460-3-60	59.4	60	1,813	R-454B REFRIG., E-COAT COND. COILS, VFD 2 STAGE HI STATIC, DOWN DISCHARGE. W/ A2L REFRIGERATION LEAK DETECTION SYSTEM 18 KW ELEC. HEAT, & 2" MERV 13 FILTERS. PROVENT 14" CALCULATED VIBRATION ISOLATION ROOF CURB.	5/M-300	SMOKE DETECTOR (SD/1)

EXHAUST FAN SCHEDULE:

SYMBOL	AREA SERVED	CFM	S.P.	FAN TYPE	SONES	AMPS	V/PH/HZ	MANUFACTURER & MODEL#	WEIGHT (LBS.)	REMARKS
EF 1	RESTROOMS & ELECT. ROOM	945	1.0	ROOF MOUNTED	12.1	6.4	115/1/60	"GREENHECK"MODEL G-120-VG	75	PROVIDE BACKDRAFT DAMPER, BIRD SCREEN, & ROOF CURB. INTERLOCK WITH PACKAGED ROOFTOP UNITS. DISCONNECT W/ CONTACTOR
EF 2	LOUNGE	150	0.5	ROOF MOUNTED	7.0	1	115/1/60	"GREENHECK"MODEL G-080-VG	25	PROVIDE BACKDRAFT DAMPER, BIRD SCREEN, & ROOF CURB. INTERLOCK WITH PACKAGED ROOFTOP UNITS. DISCONNECT W/ CONTACTOR
EF 3	CUSTODIAN	150	0.25	ROOF MOUNTED	2.0	1.5	115/1/60	"GREENHECK"MODEL SP-A390-VG	24	PROVIDE BACKDRAFT DAMPER, 22 GA EYEBROW W/ BIRD SCREEN, & ROOF CURB. INTERLOCK WITH PACKAGED ROOFTOP UNITS. DISCONNECT W/ CONTACTOR

CONTROL SCHEDULE:

CM X — EQUIPMENT CONTROLLER. JOHNSON F4-CGM WITH BACnet MS/TP BUS WITH REQUIRED SOFTWARE AND GRAPHICS

R 1 — ROUTER. JOHNSON FX ROUTER FOR REMOTE ACCESS WITH REQUIRED SOFTWARE & PATCH CABLE OBTAIN IP ADDRESS FROM OWNER

T AC-X — THERMOSTAT. JOHNSON CONTROLS WITH CO2 DEMAND CONTROL OF ECONOMIZER IN LOCKING ENCLOSURE

CONTROL POINTS VIA BACNET CONNECTION

INPUTS	OUTPUTS
SUPPLY AIR TEMPERATURE	UNIT ENABLE BASED ON SCHEDULE
FAN PROOFING	SETPOINTS
THERMOSTAT	COOLING
	HEATING
	FIRE ALARM SHUTDOWN

RFI OWNER FOR SCHEDULE OF OPERATION AND SETPOINTS

POWER EXHAUST SCHEDULE:

PE 1 — CENTRIFUGAL POWER EXHAUST, ECONOMIZER: # PROVENT P/N PEDCPRDLCEN46MS W/ FDD, 460-3-60, FLA: 2.8, HP: 2 Wt.: 220 lbs. (W/ ECONOMIZER)

FIRE/SMOKE CONTROL SCHEDULE:

SD 1 — SMOKE DETECTOR. SYSTEM SENSOR MODEL D4120W. LOCATE IN SUPPLY PLENUM. SHUT DOWN FAN IF SMOKE IS DETECTED. (SEE ELECTRICAL)

FSD 1 — FIRE SMOKE DAMPER. POTTORFF MODEL FSD-171 1-1/2 HOUR DYNAMIC RATED 110V ACTUATOR (SIZE: 40"x20")

FSD 2 — FIRE SMOKE DAMPER. POTTORFF MODEL FSD-171 1-1/2 HOUR DYNAMIC RATED 110V ACTUATOR (SIZE: 32"x18")

FSD 3 — FIRE SMOKE DAMPER. POTTORFF MODEL FSD-171 1-1/2 HOUR DYNAMIC RATED 110V ACTUATOR (SIZE: 26"x18")

FSD 4 — FIRE SMOKE DAMPER. POTTORFF MODEL FSD-171 1-1/2 HOUR DYNAMIC RATED 110V ACTUATOR (SIZE: 26"x22")

AIR DISTRIBUTION SCHEDULE:

CDS — SUPPLY AIR DIFFUSER. TITUS MODEL OMNI, STEEL PLAQUE FACE, WHITE. PLASTER MOUNT OR T-BAR. (VERIFY).
- CDS-1: 24"x24" FACE
- CDS-2: 12"x12" FACE

RAG — RETURN REGISTER. TITUS MODEL 350RL. STEEL, WHITE, 3/4" DEG BLADE.

CDR — RETURN AIR GRILLE. TITUS MODEL PAR, PERFORATED FACE, WHITE. PLASTER MOUNT OR T-BAR. (VERIFY)
- CDR-1: 24"x24" FACE
- CDR-2: 24"x48" FACE

TGT — TRANSFER AIR GRILLE. TITUS MODEL OMNI, STEEL PLAQUE FACE, WHITE. PLASTER MOUNT OR T-BAR (VERIFY).
- TGT-1: 24"x24" FACE,
- TGT-2: 12"x12" FACE

TAG — TRANSFER AIR REGISTER. TITUS MODEL 350RL. STEEL, WHITE, 3/4" DEG BLADE.

ED — EXHAUST AIR GRILLE. TITUS MODEL PAR, PERFORATED FACE, WHITE. PLASTER MOUNT OR T-BAR. (VERIFY)
- ED-1: 24"x24" FACE
- ED-2: 12"x12" FACE

EG — EXHAUST AIR REGISTER. TITUS MODEL 350RL. STEEL, WHITE, 3/4" DEG BLADE.

POTTORFF®

model **FSD-171**

1½ hour • **UL class 1** — combination fire smoke damper tunnel-type corridor ceiling

Application

The FSD-171 combination fire smoke damper employs triple-V blades for point-of-origin control of fire and smoke in static and dynamic smoke management systems. The FSD-171 is qualified to 2,000 ft/min (10.2 m/s) and 4 in.wg. (1.0 kPa) and may be installed in vertical walls or partitions, or horizontally in floors or assemblies with fire resistance ratings up to 2 hours. The FSD-171 may also be installed in horizontal openings of metal stud or wood stud tunnel-type corridor ceilings.

Standard Construction

Frame: 5" × 1" (127 × 25) galvanized steel hat channel with interlocking corner gusset. Equivalent to 13 gauge (2.4) channel frame. Low profile head and sill are used on sizes less than 13" (330) high.

Blades: 6" × 16 gauge (152 × 1.6) galvanized steel — triple-V.

Sleeve: 16" × 20 gauge (406 × 1.0) galvanized steel.

Axles: ½" (13) diameter plated steel hex.

Linkage: Concealed in frame.

Bearings: Stainless steel oilite, sleeve-type.

Seals: Silicone blade edge seals and flexible metal jamb seals.

Actuator: 120 VAC, power-open, spring-close, external mount.

Fire Closure Device: HS-10 (electric actuators) PFV (pneumatic actuators)

Fire Closure Temperature: 165°F (75°C).

Minimum Size: 6" × 6" (152 × 152)

Maximum Size: 24" × 24" (610 × 610)

Options

- ☐ Alternate actuator:
  - ☐ Internal mount (actuator in air-stream).
  - ☐ 24 VAC ☐ 230 VAC ☐ Pneumatic
- ☐ DRS-30 — Two temperature fire closure device. (Includes PI-50 switch package)
- ☐ PI-50 — Dual position indicator switch package.
- ☐ Alternate factory installed sleeve:
  - Gauge: ☐ 18 (1.3) ☐ 16 (1.6) ☐ 14 (2.0) ☐ 10 (3.5)
  - Length: ☐ 20" (508) ☐ 24" (610) ☐ Other______
  - ☐ Side Plate ☐ No Sleeve (Actuator must be internally mounted)
- ☐ Transitions: ☐ Flanged ☐ Round ☐ Oval
  - ☐ Duct connections: ☐ 1" (25) S-clip ☐ DM25 ☐ DM35 ☐ S & Drive ☐ Ward
- ☐ Retaining angle systems:
  - Gauge: ☐ 20 (1.0) ☐ 16 (1.6)
  - Picture frame: ☐ SSPF (single-side) ☐ DSPF (2-sided)
  - Individual angle sets: ☐ SS (single-side) ☐ DS (2-sided)
- ☐ Alternate fire closure temperature:
  - ☐ 212°F (100°C) ☐ 250°F (121°C)
  - ☐ 350°F (177°C).
- ☐ Duct smoke detector factory mounted and wired:
  - ☐ D4120 (100-4,000 fpm [0.5-20.3 m/s])
  - ☐ 2151 (0-3,000 fpm [0-15.2 m/s])
- ☐ Duct access door factory mounted in common sleeve.
- ☐ Remote control stations:
  - ☐ RCP-1 (single) ☐ RCP-1K (single, key controlled)
  - ☐ RCP-1M (single, momentary switch)

Ratings

UL 555 Fire Resistance Rating: 1½ hour (vertical and horizontal) 1 hour (tunnel-type corridor ceiling)

UL 555S Leakage Class: 1 [8 cfm/sq.ft. @ 4 in.wg.] [(0.04 m³/s/m² @ 1.0 kPa)]

Maximum Dynamic Closure Velocity: 2,000 fpm (10.2 m/s)

Maximum UL555S Rated Pressure: 4 in.wg. (1.0 kPa)

Maximum Temperature: 350°F (177°C)

Listings

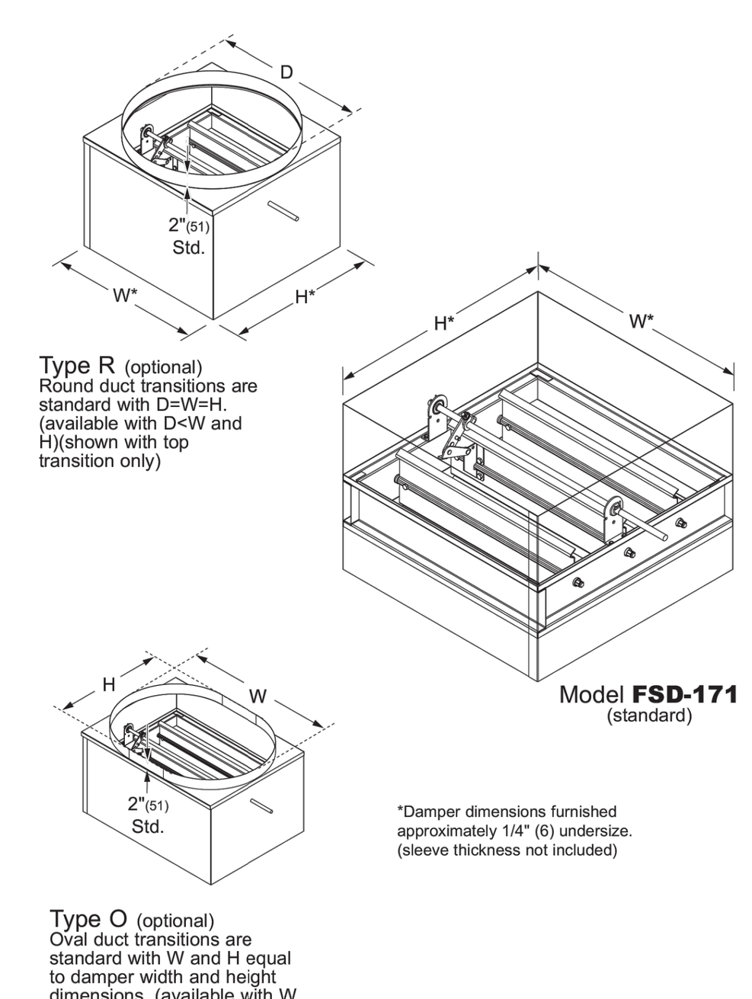
UL 555 and 555S listing: R11767

CSFM listing: 3225-0368:110 and 3230-0368:111

New York City MEA listing: 295-98-E

Meets NFPA Standards: 90A, 92A, 92B and 101

Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC



Type R (optional) Round duct transitions are standard with D=W=H. (available with D<W and H)(shown with top transition only)

Model **FSD-171** (standard)

Type O (optional) Oval duct transitions are standard with W and H equal to damper width and height dimensions. (available with W and H smaller than damper width and height)(shown with top transition only)

*Damper dimensions furnished approximately 1/4" (6) undersize. (sleeve thickness not included)

Fire Smoke Dampers **FSD171** (1/2) March 2014

Information is subject to change without notice or obligation. **NOTE:** Dimensions in parentheses ( ) are millimeters.

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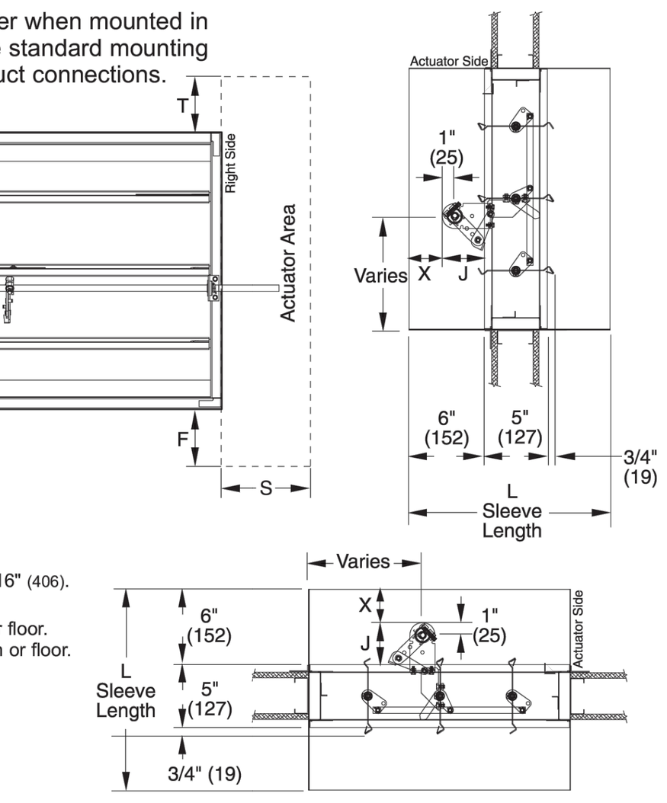
Actuator and Sleeve Dimensional Data

The drawings and corresponding table illustrate the position of the damper when mounted in a factory sleeve and the relative space required for a given actuator. The standard mounting locations provide enough space for installation of retaining angles and duct connections.

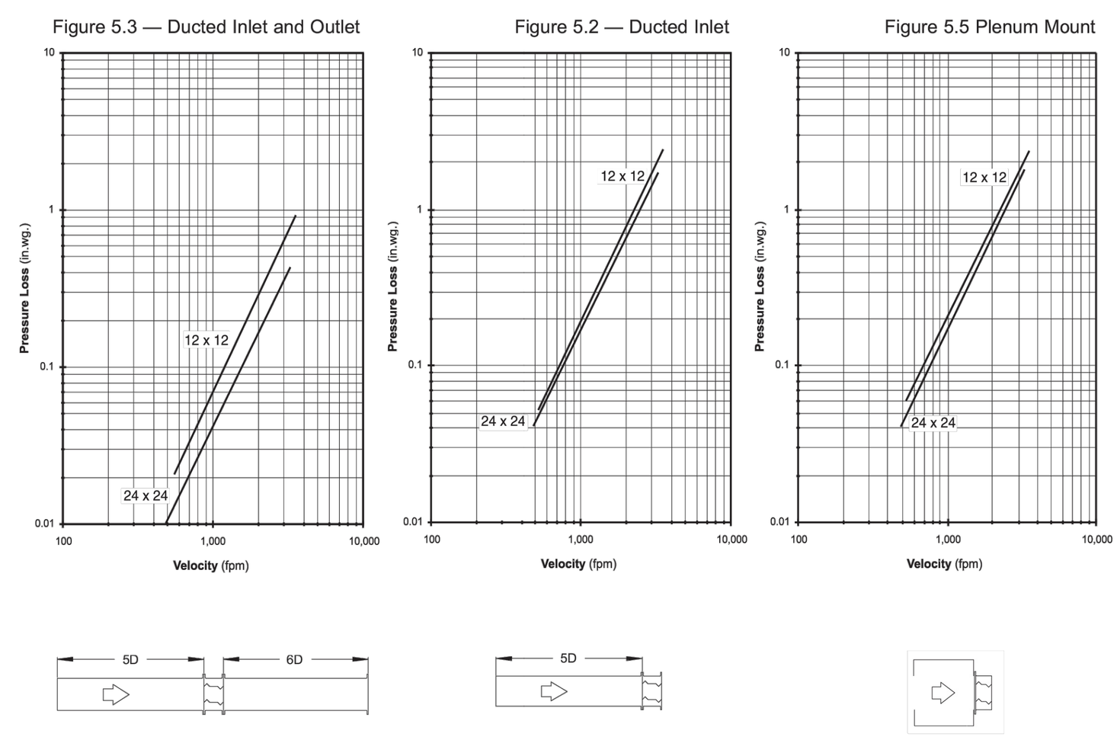
	Damper Height	Actuator Model FSLF120 FSLF24	FSNF120 FSNF24	GGD221 GGD121	ML4115 ML8115	331-4826	331-2998
F	6"-7"	5"	7"	9"	5"	9"	13"
F	8"-9"	4"	7"	8"	4"	8"	12"
F	10-11"	1"	4"	6"	1"	5"	9"
F	12"-13"	0"	3"	5"	0"	4"	8"
F	14"	0"	2"	4"	0"	4"	8"
F	15"-16"	0"	1"	3"	0"	3"	7"
F	17"	0"	3"	5"	0"	5"	9"
F	18" and 23"	0"	0"	0"	0"	0"	3"
F	19"-20"	0"	0"	0"	0"	0"	2"
F	21"-22" and 24"	0"	0"	0"	0"	0"	0"
T	6" and 10"	3"	3"	3"	3"	3"	3"
T	7" and 11"-12"	2"	2"	2"	2"	2"	2"
T	8", 13"-14" and 21"	1"	1"	1"	1"	1"	1"
T	9", 15"-17" and 20"	0"	0"	0"	0"	0"	0"
T	18"-19"	0"	1"	1"	0"	1"	1"
T	22"-23"	0"	0"	0"	0"	0"	0"
T	24"	0"	0"	0"	0"	0"	1"
S	All	4-1/2"	4-1/2"	4-1/2"	4-1/2"	5"	7-1/4"
X	<8"	4"	4"	4"	4"	4"	4"
X	≥8"	2-5/8"	2-5/8"	2-5/8"	2-5/8"	2-5/8"	2-5/8"
J	<8"	2"	2"	2"	2"	2"	2"
J	≥8"	3-3/8"	3-3/8"	3-3/8"	3-3/8"	3-3/8"	3-3/8"

NOTE:
1. Sleeve length "L" = wall/floor thickness + 10" (254). Standard sleeve length "L" = 16" (406).
2. Damper may be rotated 180° to position actuator area on the left side.
3. The entire damper frame is not required to be installed within the wall, partition or floor. However, the closed plane of the damper blades must be inside the wall, partition or floor.
4. Dimensions for FSLF120 apply to FSTF120.
5. Dimensions for ML4115/ML8115 apply to MS4209/MS8209.
6. For dimensions on actuators not shown above, contact factory.



Airflow Performance Data

Pressure Loss vs. Velocity



Pressure drop testing was performed in accordance with AMCA Standard 500-D using the three configurations shown. All data has been corrected to represent air at density of 0.075 lb/ft. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.

Ducted Inlet and Outlet

AMCA Figure 5.3 Illustrates a fully ducted damper. This configuration represents the lowest pressure drop of the three test configurations because entrance and exit losses are minimized by straight duct runs upstream and downstream of the damper.

Ducted Inlet

AMCA Figure 5.2 Illustrates a ducted damper exhausting air into an open area. This configuration has a lower pressure drop than Figure 5.5 because entrance losses are minimized by a straight duct run upstream of the damper.

Plenum Mount

AMCA Figure 5.5 Illustrates a plenum mounted damper. This configuration has the highest pressure drop because of extremely high entrance and exit losses due to the sudden changes of area in the system.

Fire Smoke Dampers **FSD171** (2/2) March 2014

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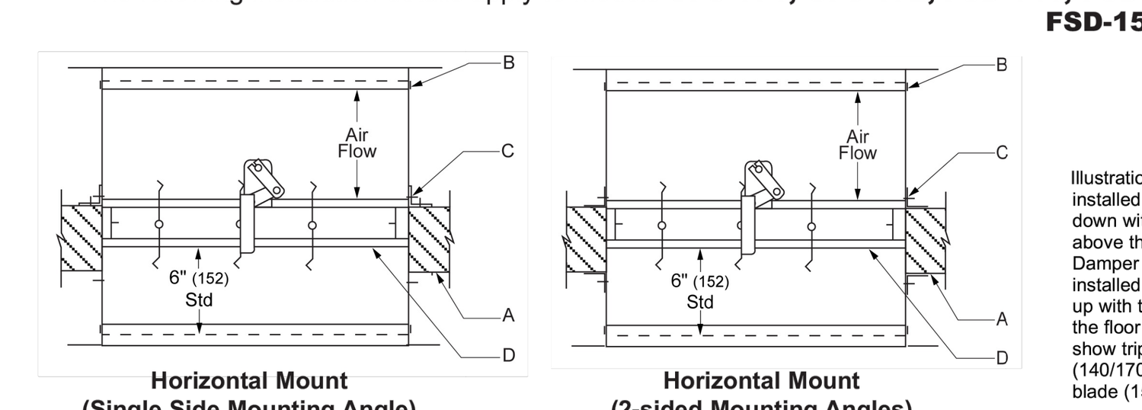
POTTORFF®

1½ hour — combination fire smoke dampers horizontal installation instructions

The following installation details apply to models **CFS-171, CFS-172, FSD-141, FSD-142, FSD-143, FSD-151, FSD-152, FSD-171** and **FSD-172**



Horizontal Mount (Single Side Mounting Angle)

Horizontal Mount (2-sided Mounting Angles)

CLASSIFIED SEE DETAILS ON UL CLASSIFICATION MARKING ON ENCLOSED PRODUCT CLASSIFIED

Illustration depicts damper installed from the top down with the actuator above the floor line. Damper may also be installed from the bottom up with the actuator below the floor line. Illustrations show triple-V bladed (140/170 type), steel airfoil blade (150 type) similar.

A. Concrete or masonry fire partition shown. The opening shall be a minimum of ¼" (6) with a maximum of ¾" (19) larger than the overall damper and sleeve assembly size. When openings are larger than ¾" (19), but less than or equal to 6" (152) the mounting angles must be a minimum of 16 gauge (1.5) and must be wide enough to overlap the opening by a minimum of 1" (25). The damper must be installed with leading edge of closed blade within the partition.

B. For rigid type duct connections, the sleeve shall be a minimum of 16 gauge (1.5) for dampers up to 36" wide by 24" high (914 × 610) and a minimum of 14 gauge (1.9) for larger units. When lighter gauge sleeves are used, one or more of commonly used breakaway style connections are required. Refer to Sleeve Termination Supplemental Installation Instructions for further details. In no case will the sleeve gauge be less than the duct gauge to which it is connected. The damper sleeve shall not extend more than 16" (406) beyond the rated partition on the actuator side. The opposite side extension shall be a maximum of 6" (152) unless an access door is installed in the sleeve which then permits the extension to be a maximum of 16" (406).

C. Mounting angles shall be a minimum 1-½" × 1-½" × 16 gauge (38 × 38 × 1.5). Mounting angles are only required on the top side of the opening and must be attached to the sleeve at 6" (152) o.c. maximum, to the partition at 24" (610) o.c. maximum. There must be a minimum of two fasteners per side to both the sleeve and partition on all four sides. Alternately, mounting angles may be installed on both sides of the partition and must be attached only to the sleeve at 12" (305) o.c. maximum, with a minimum of two connections per side on all four sides. Attachment to the sleeve shall be with a minimum of #10 (M5) screws or bolts, 3/16" (4.8) diameter steel rivets, Quick-Lock joints, or welds.Attachment to the partition shall be with a minimum of #10 (M5) steel fasteners: anchors, bolts, or self-tapping masonry screws. A minimum ¾" × 20 gauge (19 × 1) flange termination may be used in lieu of mounting angles. Ensure that the attachment device does not interfere with the operation of the damper and the free movement of the damper blades.

Note: If optional sealing between the mounting angle (or flange) leg and the surface of the partition, or floor and/or between the mounting angle leg and the surface of the damper sleeve is required, any of the following sealants may be used: Dow Corning 700 or 732 or DOWSIL 700 or 732 or GE RTV 108 or SCS 1201 RTV These sealants must be applied such that they do not intrude into the annular space between the outside surface of the damper sleeve and the opening of the partition, or floor into which the damper/sleeve is installed. The annular space between damper sleeve and opening must not be filled with firestop materials such as fill, void, or cavity materials.

D. When joining multiple sections or fastening the damper to the sleeve, the damper shall be fastened with minimum 3/16" (4.8) diameter steel rivets, Quick-Lock Joints, welds or #10 (M5) bolts or sheet metal screws at 8" (203) o.c. maximum. There must be a minimum of two connections per side, top and bottom. For FSD-151 and 152 installations more than one damper high and three dampers wide, a minimum 14 gauge × 5" (1.9 × 127) supplemental steel mullion is required. The mullion should be the same length as the opening/duct height and must be installed between the damper frames running parallel to the opening/duct height, at the center of the assembly. Support mullions should be attached to the damper frames using the same fasteners indicated previously in this section.

E. A continuous bead of Dow Corning 700 or 732 or DOWSIL 700 or 732 or GE RTV 108 or SCS 1201 RTV silicone rubber sealant shall be applied between the damper and the sleeve and between sections of a multiple damper assembly. Sealant is only required on one side of the damper.

F. Fire/Leakage rated dampers and qualified operators are tested together by Underwriters Laboratories and are factory installed to qualify for standard damper/operator warranties. Damper operator/actuator must be tested prior to system start-up to ensure proper operation. Before applying power to the operator/actuator, the power must be verified.

DUCT SIZES	GALVANIZED STEEL FSD-141, 142, 143	GALVANIZED STEEL FSD-151, 152	GALVANIZED STEEL FSD-171, 172	GALVANIZED STEEL CFS-171, 172	STAINLESS STEEL FSD-141, 142, 143
Maximum Single Section	36" x 48" (914 x 1219)	32" x 48" (813 x 1219)	24" x 24" (610 x 610)	12" x 12" (305 x 305)	36" x 48" (914 x 1219)
Maximum Multiple Section	108" x 48"* (2743 x 1219)	144" x 96"* (3658 x 2438)	N/A	N/A	72" x 48" or 36" x 96"* (1829 x1219 or 914 x 2438)

*Individually sleeved dampers can be installed in partitions wider than the maximum U.L. multiple section size using the Support Mullion for Oversized Floor Openings. See Support Mullion for Oversized Floor Openings Installation Instructions for further details.

Fire Smoke Dampers FSD171 (2/2) March 2014
Fire Smoke Dampers **IIFSDHOR M-60645** August 2019

Information is subject to change without notice or obligation. **NOTE:** Dimensions in parentheses ( ) are millimeters.

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FIRE SMOKE DAMPER PRODUCT INFORMATION

COUNTY of VENTURA Library

PUBLIC WORKS VENTURA COUNTY ENGINEERING SERVICES

KBZ KRUGER BENSEN ZIEMER ARCHITECTS, INC.
199 FIGUEROA STREET, SUITE 100A
VENTURA, CA 93001
TELEPHONE (805) 963-1726

TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

AE Group
Mechanical Engineers
838 East Front Street
Ventura, California 93001
(805) 653-1722
hugh@aegroupme.com

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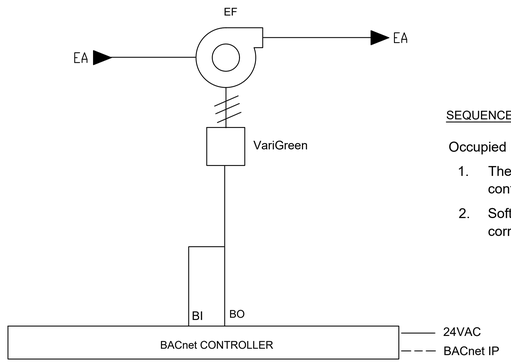
SHEET TITLE

MECHANICAL SCHEDULES

SHEET NO

M-002



SEQUENCE OF OPERATION

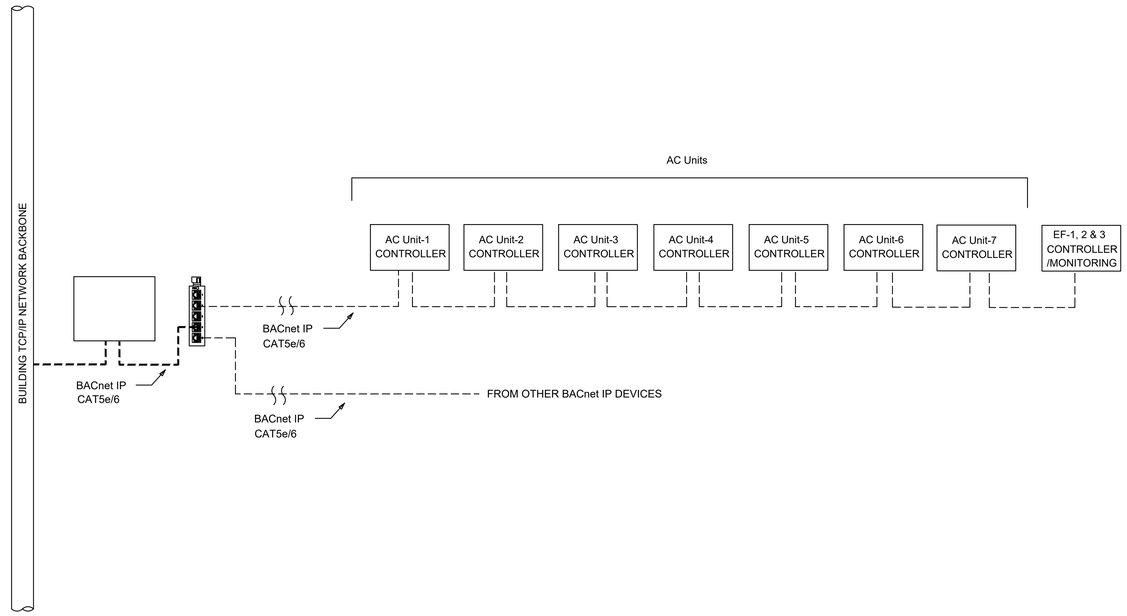
Occupied Mode:

1. The exhaust fans shall be controlled by DDC controller.
2. Software interlock exhaust fans with corresponding AC units serving the space

General Exhaust	Hardware Points				Software Points					
Point Name	AI	AO	BI	BO	AV	BV	Schedule	Trend	Alarm	Show on Graphic
Exhaust Fan Start/Stop				x						x
Exhaust Fan Status			x						x	x
Totals			1	1					1	2

EXHAUST FAN (TYPICAL)

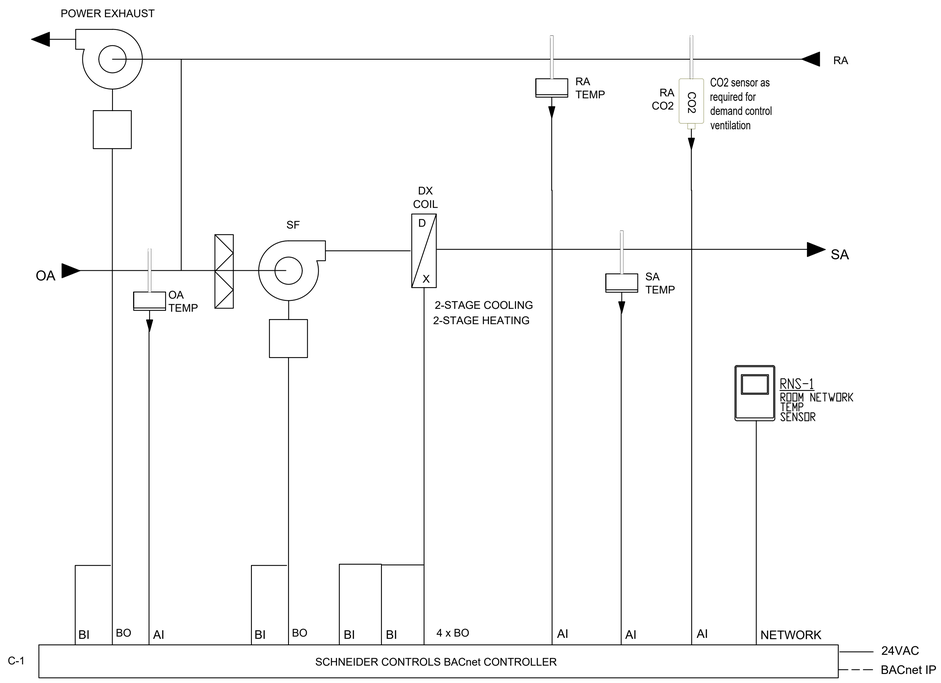
SCALE: NONE (1)



BAS CONTRACTOR: 'EMCOR'

NETWORK RISER DIAGRAM

SCALE: NONE (2)



SEQUENCE OF OPERATION

AC-1 TO AC-7:

UNIT SHALL BE SUPPLIED WITH FACTORY PROVIDED CONTROLS . THE SPACE TEMPERATURE SENSORS (REFER PLAN) WILL DETERMINE WHETHER THE UNIT IS IN COOLING /HEATING MODE OR NOT.

RUN CONDITIONS - SCHEDULED: THE UNIT SHALL BE PLACED IN COOLING/HEATING MODE BASED ON USER DEFINABLE BUILDING SCHEDULE VIA BMS.

A. OCCUPIED MODE: THE UNIT SHALL MAINTAIN
- 72 DEG F (ADJ) COOLING SETPOINT.
- 70 DEG F (ADJ) HEATING SETPOINT

B. UNOCCUPIED MODE: THE UNIT SHALL MAINTAIN
- 85 DEG F (ADJ) COOLING SETPOINT.
- 55 DEG F (ADJ) HEATING SETPOINT

COOLING MODE:
THE COMPRESSOR STAGES MODULATES TO MAINTAIN SPACE SETPOINT, WHILE COOLING IS CONTROLLED TO MAINTAIN THE SUPPLY AIR SETPOINT.

HEATING MODE:
THE COMPRESSOR STAGES MODULATES TO MAINTAIN SPACE SETPOINT WHILE HEATING STAGE IS MODULATED TO MAINTAIN THE SUPPLY AIR SETPOINT.

ECONOMIZER MODE:
ECONOMIZER MINIMUM POSITION IS SET DURING OCCUPIED MODE, WHEN OSA IS NOT SUITABLE FOR 'FREE COOLING'.
FOR SINGLE ENTHALPY OPERATION, THE OSA IS SUITABLE FOR FREE COOLING, IF THE OSA ENTHALPY IS ATLEAST 1 BTU/LB BELOW THE ECONOMIZER OSA ENTHALPY SETPOINT AND OSA TEMPERATURE IS NO GREATER THAN THE RAT + 9°F.
FOR DUAL ENTHALPY OPERATION, THE OSA IS SUITABLE FOR FREE COOLING,, IF THE OSA ENTHALPY IS LOWER THAN THE RA ENTHALPY BY 1 BTU/LB AND OSA TEMPERATURE IS NO GREATER THAN RAT + 9°F.
IF OSA IS SUITABLE FOR FREE COOLING, FIRST STAGE OF COOLING WILL BE FREE COOLING AND THE DAMPERS MODULATE TO CONTROL THE SUPPLY AIR TEMPERATURE TO ECONOMIZER SETPOINT +/- 1°F (55°F).
DURING ECONOMIZER OPERATION, THE ECONOMIZER WILL MODULATE BETWEEN THE MINIMUM POSITION AND 100%.
IF THE SUPPLY AIR TEMPERATURE CANNOT BE MAINTAINED WITHIN 5°F OF THE ECONOMIZER SETPOINT, MECHANICAL COOLING IS THEN ALLOWED TO STAGE UP.

POWER EXHAUST:
ENERGIZES EXHAUST FAN, WHEN THE ECONOMIZER OUTPUT IS ABOVE THE ECONOMIZER DAMPER POSITION FOR EXHAUST FAN ON.
DE-ENERGIZES THE EXHAUST FAN, WHEN THE ECONOMIZER OUTPUT IS BELOW THE ECONOMIZER DAMPER POSITION FOR EXHAUST FAN OFF.

INDOOR AIR QUALITY:
WHEN THE SIGNAL FROM SENSOR IS BELOW SETPOINT, ACTUATOR MODULATES AS PER ENTHALPY AND MIXED AIR SENSOR INPUTS.
WHEN SIGNAL EXCEEDS SETPOINT AND NO CALL FOR FREE COOLING, ACTUATOR IS MODULATED PROPORTIONALLY TO THE SIGNAL.
WHEN THE SIGNAL EXCEEDS ITS DEMAND CONTROL VENTILATION SETPOINT AND THERE IS CALL FOR FREE COOLING, THE ACTUATOR MODULATES FROM MINIMUM POSITION TO FULLY OPEN BASED ON HIGHEST CALL FROM EITHER MIXED IR OR ENTHALPY INPUTS.

(VENTILATION CONTROL) FOR DCV:
A CO_2 SENSOR INSTALLED IN THE RETURN AIR DUCT, SHALL BE USED IN THE VENTILATION CONTROL SEQUENCE AS FOLLOWS:
- THE CO_2 CONCENTRATIONS USED FOR VENTILATION CONTROL OF PACKAGE UNIT SHALL BE MEASURED BY THE CO_2 SENSOR INSTALLED IN THE RETURN AIR DUCT OF THE EQUIPMENT.
- THE LARGEST CO_2 CONCENTRATION LEVEL MEASURED BY ALL OF THE SENSORS SHALL BE USED IN THE VENTILATION CONTROL SEQUENCE.

THE OUTDOOR AIR SET POINT WILL BE BASED ON THE FOLLOWING LINEAR RESET SCHEDULE:

MODE	SPACE OR RETURN AIR CO2 CONCENTRATION	OUTDOOR AIRFLOW RATE
MINIMUM DCV MODE	≤ 500 PPM	DCV MOA
MODULATING DCV MODE	500 PPM < AND < 1000 PPM	MODULATING BETWEEN DCV MOA AND MOA
MOA MODE	1000 PPM ≥	MOA

AC-1 UNIT FLOW DIAGRAM (TYPICAL FOR AC-2 THROUGH AC-7)

SCALE: NONE (3)

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PROJECT TITLE AND ADDRESS

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COUNTY SPEC NUMBER
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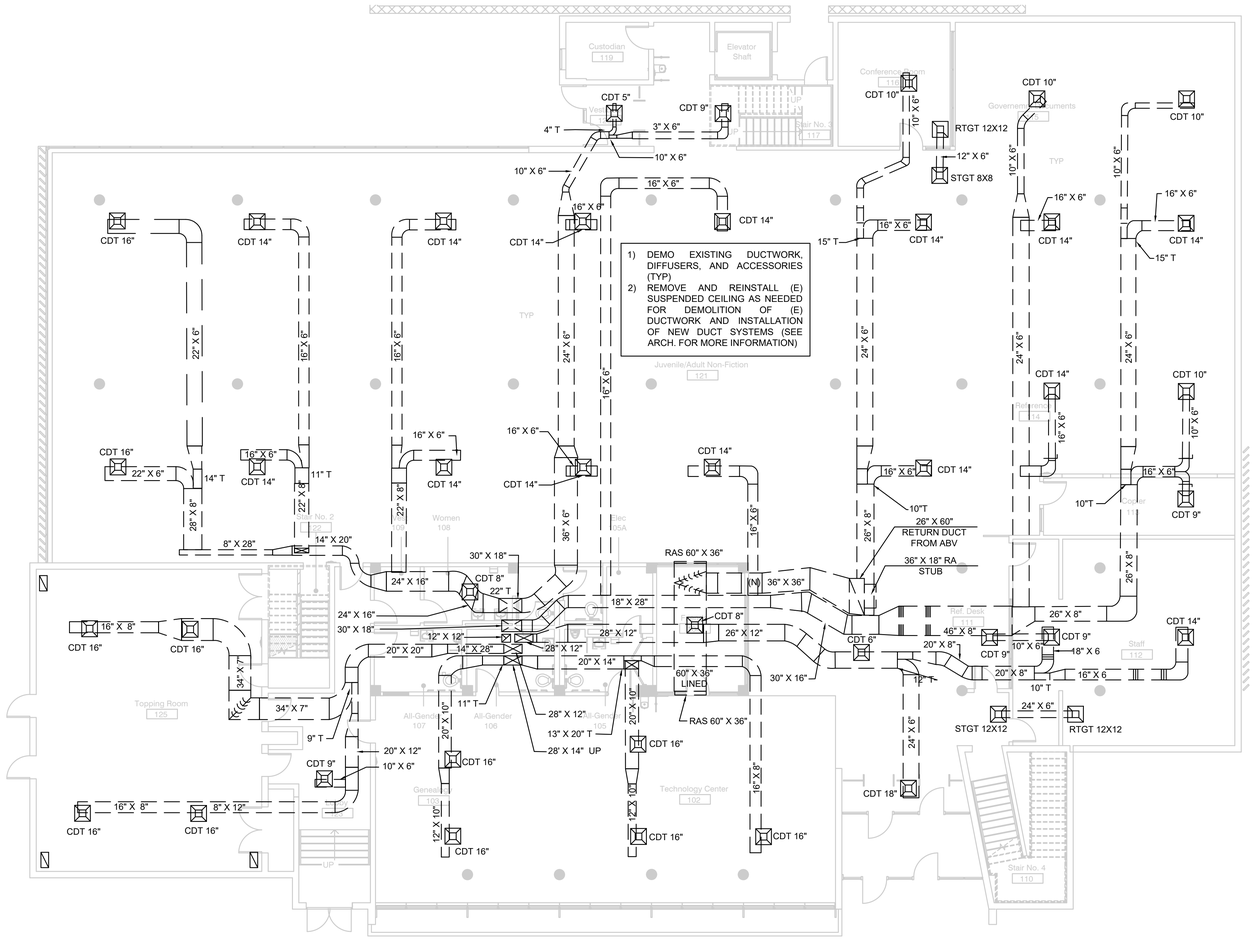
COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET ____ OF ____

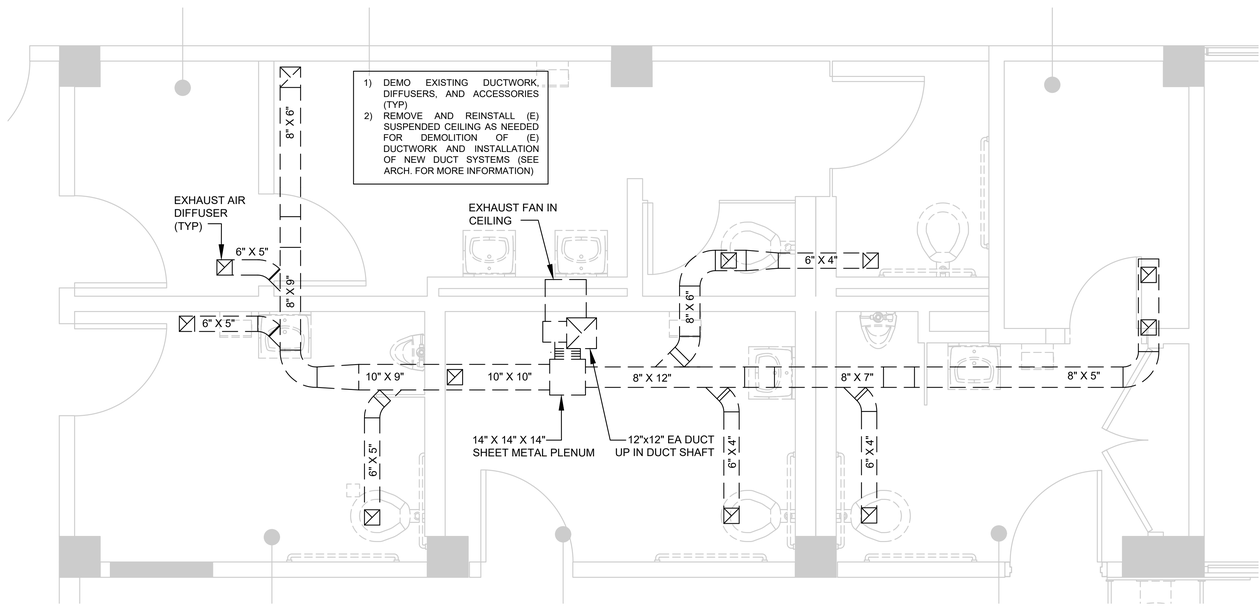
SHEET TITLE
MECHANICAL CONTROLS

SHEET NO
M-003



1 FIRST FLOOR MECHANICAL DEMOLITION PLAN

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



2 EP LIBRARY PARTIAL FIRST FLOOR MECHANICAL DEMOLITION PLAN

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

LEGENDS/ABBREVIATIONS	
CDT	CEILING DIFFUSER, T-BAR.
RAS	RETURN AIR, SURFACE.
RTGT	RETURN TRANSFER GRILL, T-BAR.
STGT	SUPPLY TRANSFER GRILL, T-BAR.
	DUCT TO BE DEMOLISHED

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COUNTY SPEC NUMBER -

COUNTY PROJECT NUMBER
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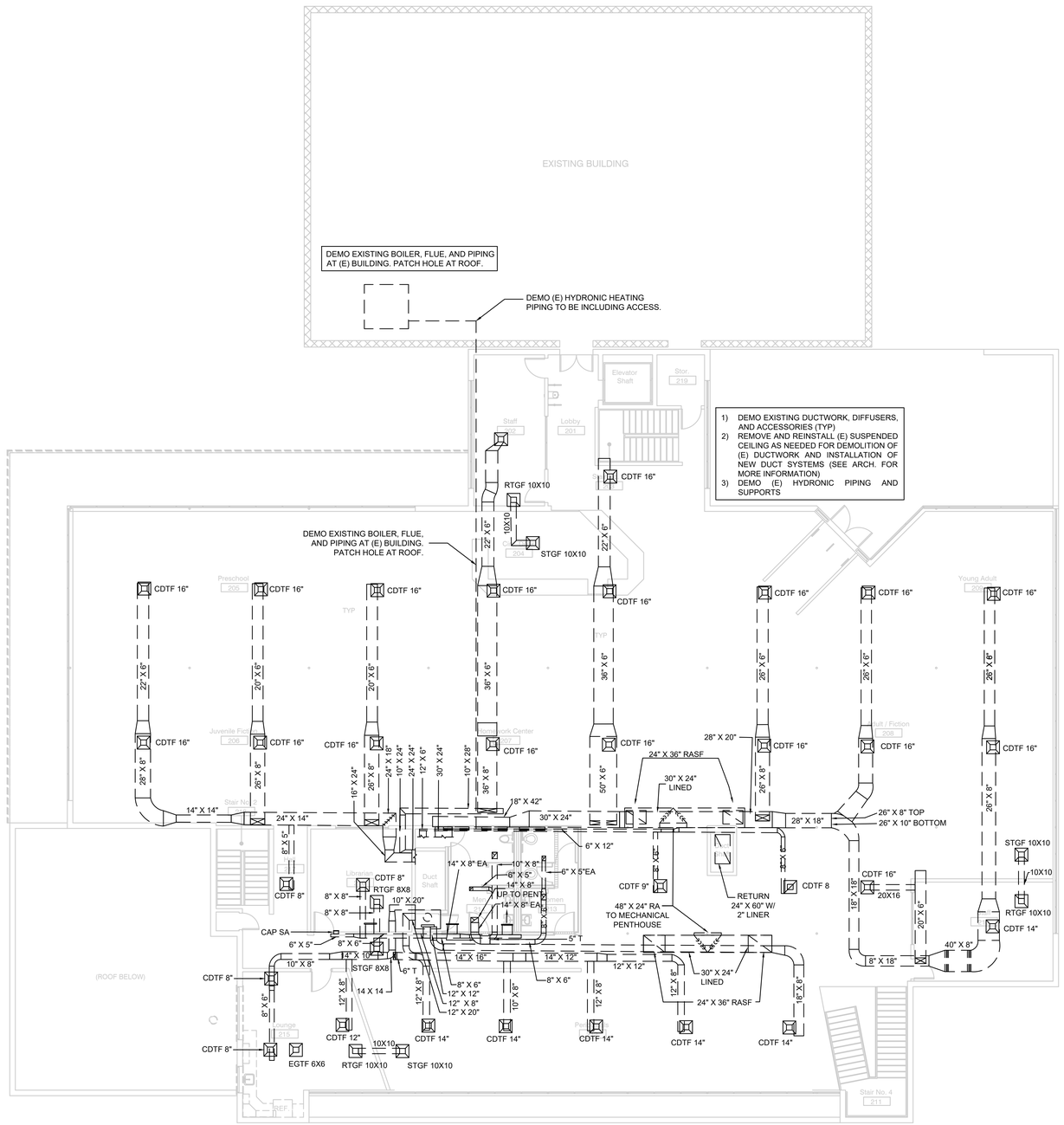
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
FIRST FLOOR MECHANICAL DEMOLITION PLAN

SHEET NO
M-101

LEGENDS/ABBREVIATIONS	
CDTF	CEILING DIFFUSER, T-BAR.
RASF	RETURN AIR, SURFACE.
RTGF	RETURN TRANSFER GRILL, T-BAR.
STGF	SUPPLY TRANSFER GRILL, T-BAR.
EGTF	EXHAUST DIFFUSER, T-BAR.
	DUCT TO BE DEMOLISHED
	PIPE TO BE DEMOLISHED



EP LIBRARY
① SECOND FLOOR MECHANICAL DEMOLITION PLAN
Scale: 1/8"=1'-0"

N

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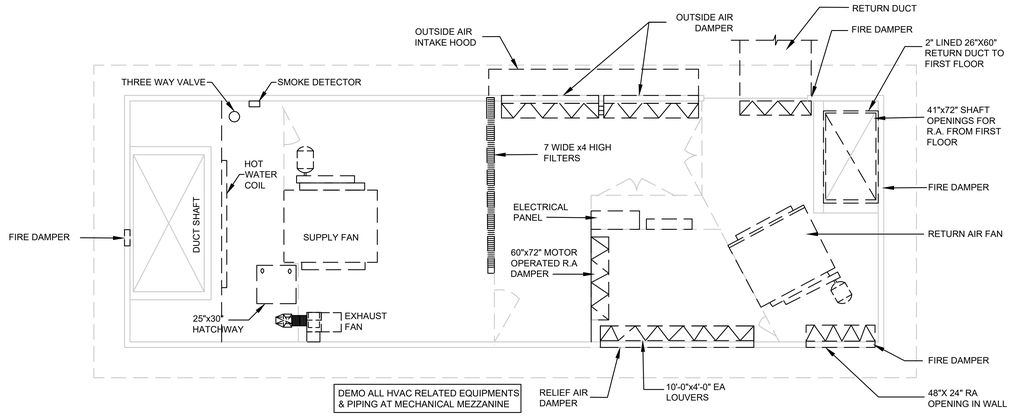
COUNTY PROJECT NUMBER
P6T24008

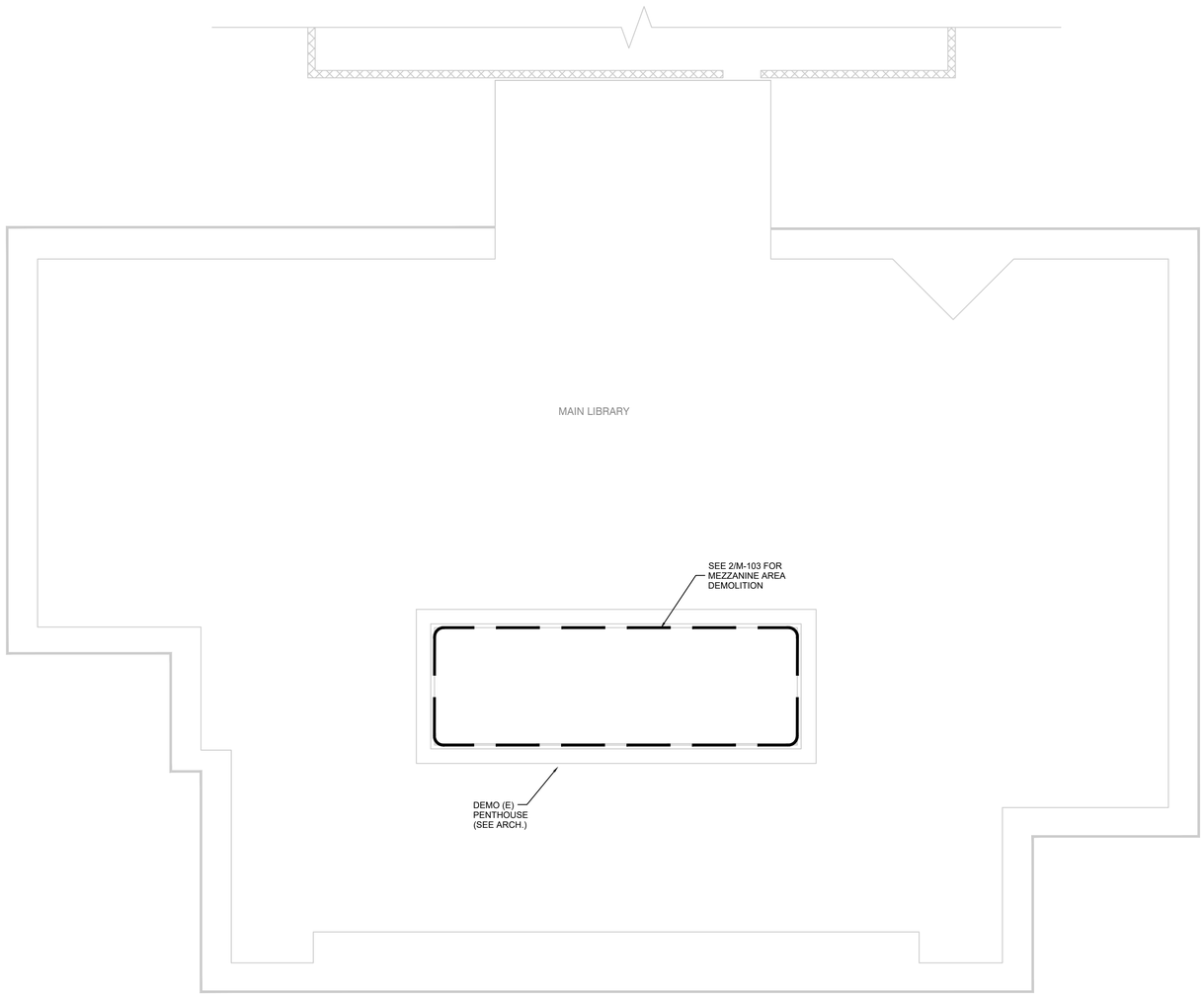
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
SECOND FLOOR MECHANICAL DEMOLITION PLAN

SHEET NO
M-102



EP LIBRARY
2 MEZZANINE MECHANICAL DEMOLITION PLAN
Scale: 1/4"=1'-0"



EP LIBRARY
1 ROOF MECHANICAL DEMOLITION PLAN
Scale: 1/8"=1'-0"

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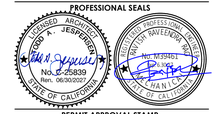

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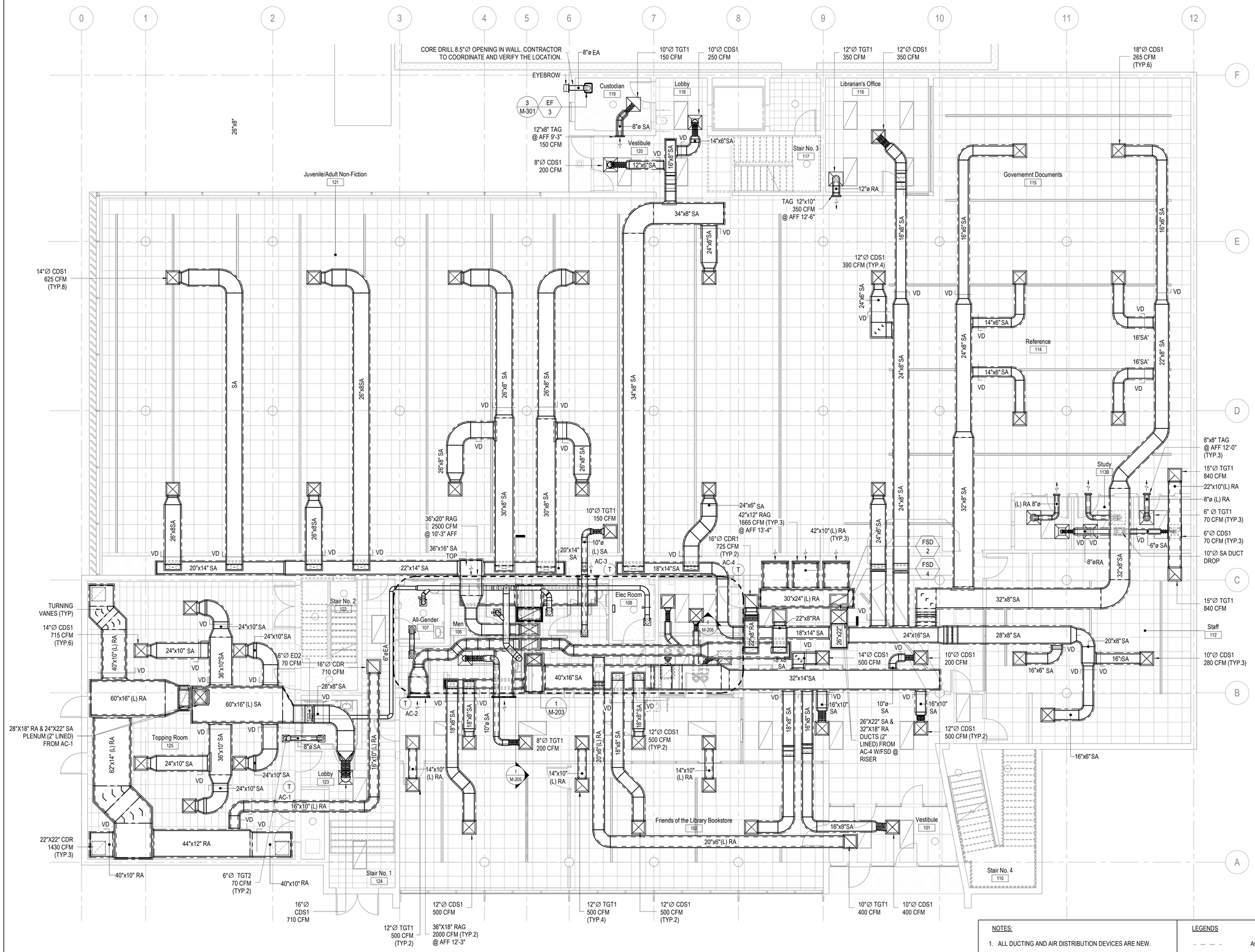
COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
ROOF/MEZZANINE MECHANICAL DEMOLITION PLAN

SHEET NO
M-103



EP LIBRARY
FIRST FLOOR MECHANICAL PLAN
1 Scale: 3/16"=1'-0"

NOTES:

1. ALL DUCTING AND AIR DISTRIBUTION DEVICES ARE NEW.
2. ARCHITECT/CONTRACTOR TO VERIFY THE FINAL LOCATION OF THERMOSTAT.

LEGENDS

- ACOUSTICAL LINING
- INSULATION
- CDS1 - CEILING SUPPLY DIFFUSER/GRILLE
- CDR - CEILING RETURN DIFFUSER/GRILLE
- TGT1 - CEILING TRANSFER DIFFUSER/GRILLE
- ED - CEILING EXHAUST DIFFUSER/GRILLE
- TAG/RAG - SIDE WALL TRANSFER/ RETURN AIR GRILLE

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COUNTY PROJECT NUMBER
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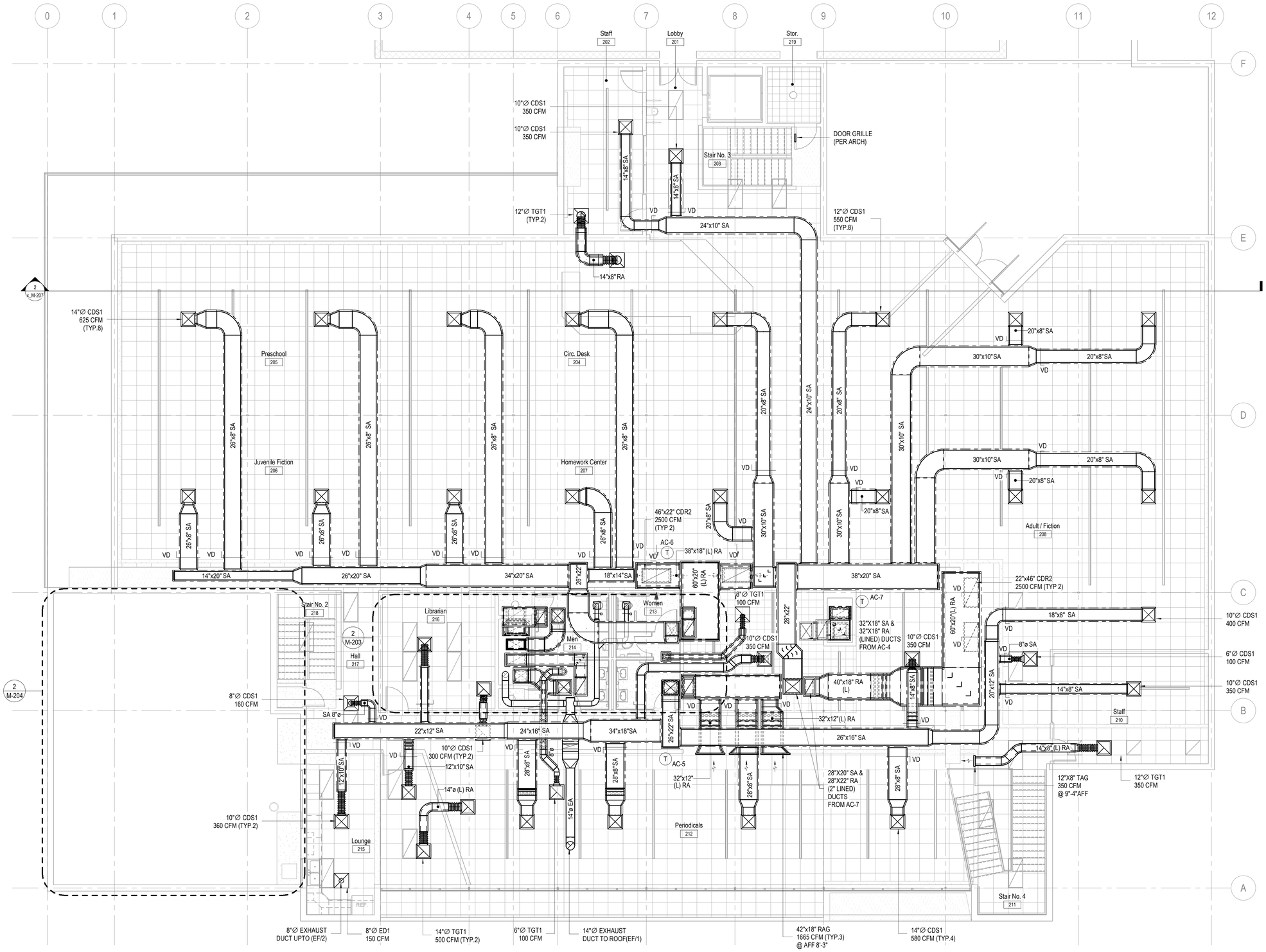
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
FIRST FLOOR MECHANICAL PLAN

SHEET NO
M-201



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1 SECOND FLOOR MECHANICAL DEMOLITION PLAN
Scale: 3/16"=1'-0"

NOTES:

1. ALL DUCTING AND AIR DISTRIBUTION DEVICES ARE NEW.
2. ARCHITECT/CONTRACTOR TO VERIFY THE FINAL LOCATION OF THERMOSTAT.

LEGENDS

- ACOUSTICAL LINING
- INSULATION
- CDS1 - CEILING SUPPLY DIFFUSER/GRILLE
- CDR - CEILING RETURN DIFFUSER/GRILLE
- TGT1 - CEILING TRANSFER DIFFUSER/GRILLE
- ED - CEILING EXHAUST DIFFUSER/GRILLE
- TAG/RAG - SIDE WALL TRANSFER/ RETURN AIR GRILLE

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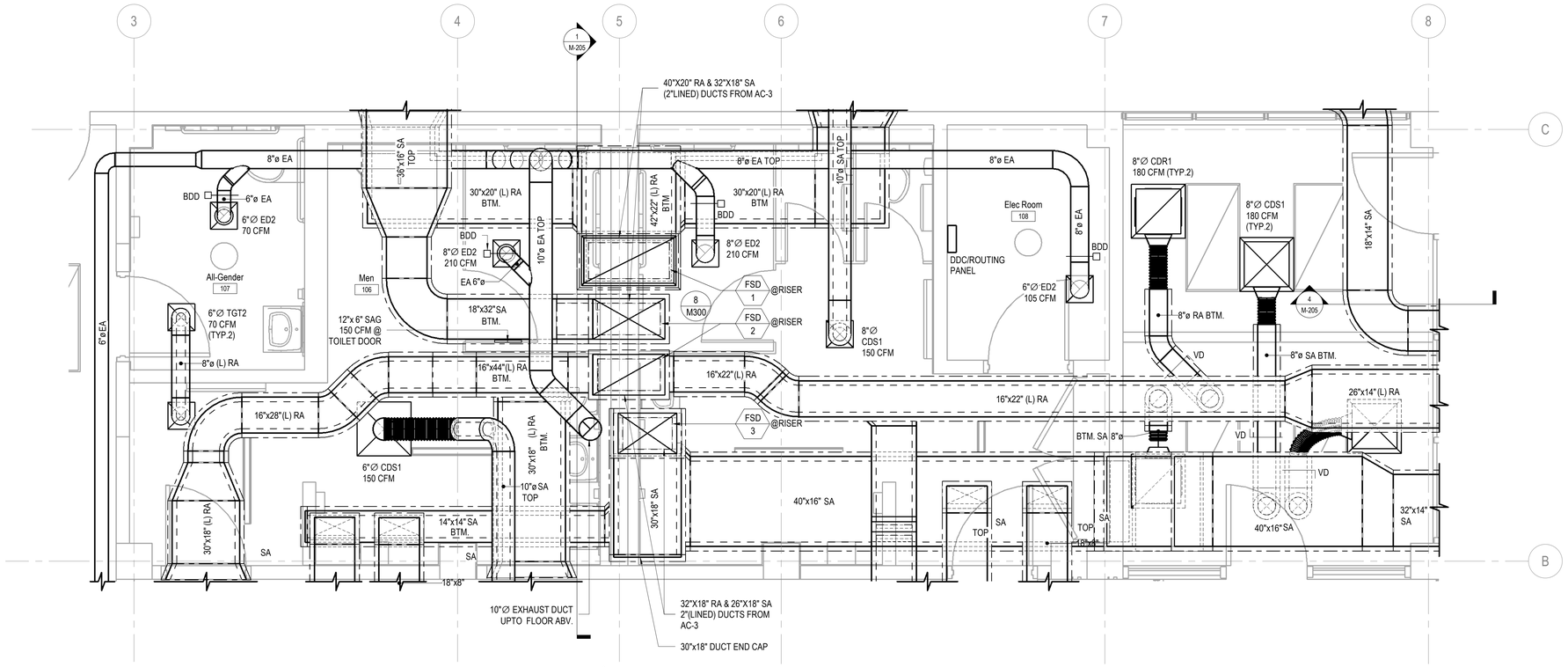
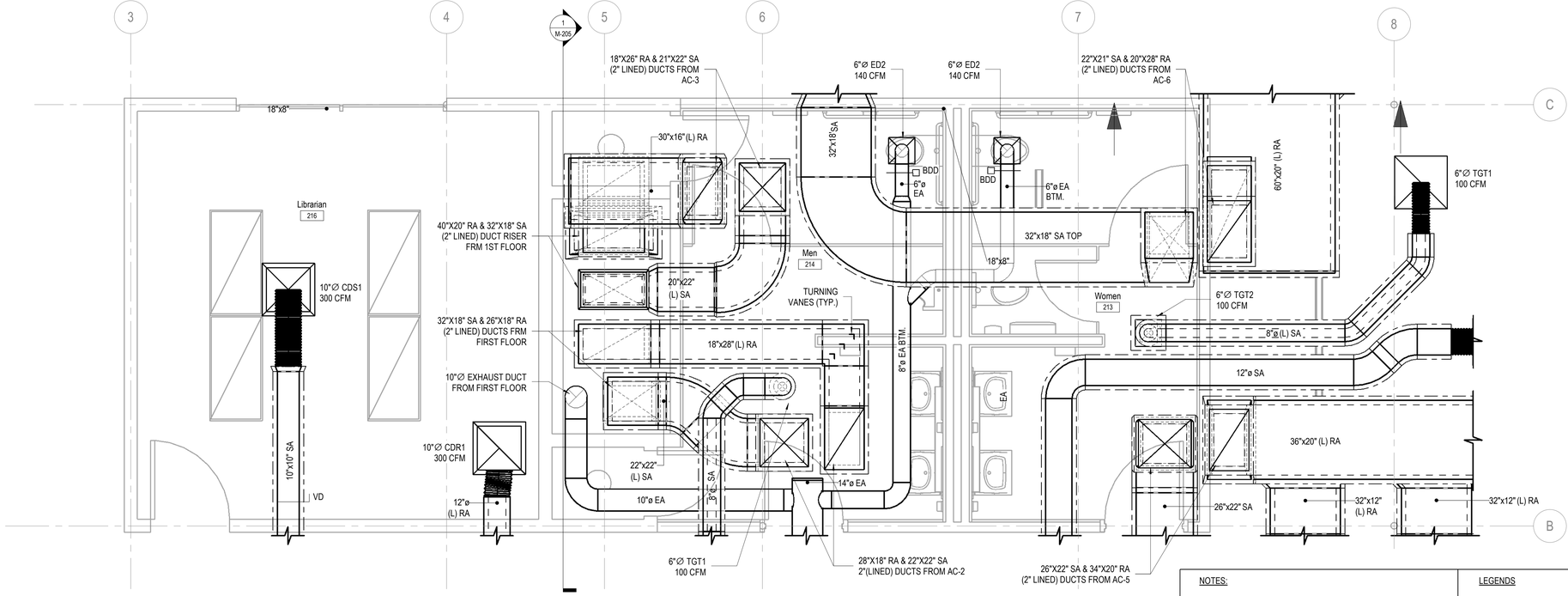
COUNTY DWG NO | SHEET ___OF___

SHEET TITLE
SECOND FLOOR MECHANICAL PLAN

SHEET NO
M-202



EP LIBRARY
1 ENLARGED MECHANICAL PLAN - FIRST FLOOR
Scale: 1/2"=1'-0"



EP LIBRARY
2 ENLARGED MECHANICAL PLAN - SECOND FLOOR
Scale: 1/2"=1'-0"

NOTES:

1. ALL DUCTING AND AIR DISTRIBUTION DEVICES ARE NEW.
2. ARCHITECT/CONTRACTOR TO VERIFY THE FINAL LOCATION OF THERMOSTAT.
3. DDC/ROUTING PANEL LOCATION SHOULD BE VERIFIED BY ELECTRICAL.

LEGENDS

- ACOUSTICAL LINING
- INSULATION
- CDS1 - CEILING SUPPLY DIFFUSER/GRILLE
- CDR - CEILING RETURN DIFFUSER/GRILLE
- TGT1 - CEILING TRANSFER DIFFUSER/GRILLE
- ED - CEILING EXHAUST DIFFUSER/GRILLE
- TAG/RAG - SIDE WALL TRANSFER/ RETURN AIR GRILLE

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TODD A. JESPERSEN — No. E-25839 — Ren. 06/30/2027 — STATE OF CALIFORNIA

RAVISH RAVEENDRA RAO — No. M39401 — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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ARCHITECT'S JOB NO 24004	DATE 10/06/2025

PROJECT TITLE AND ADDRESS

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COUNTY SPEC NUMBER
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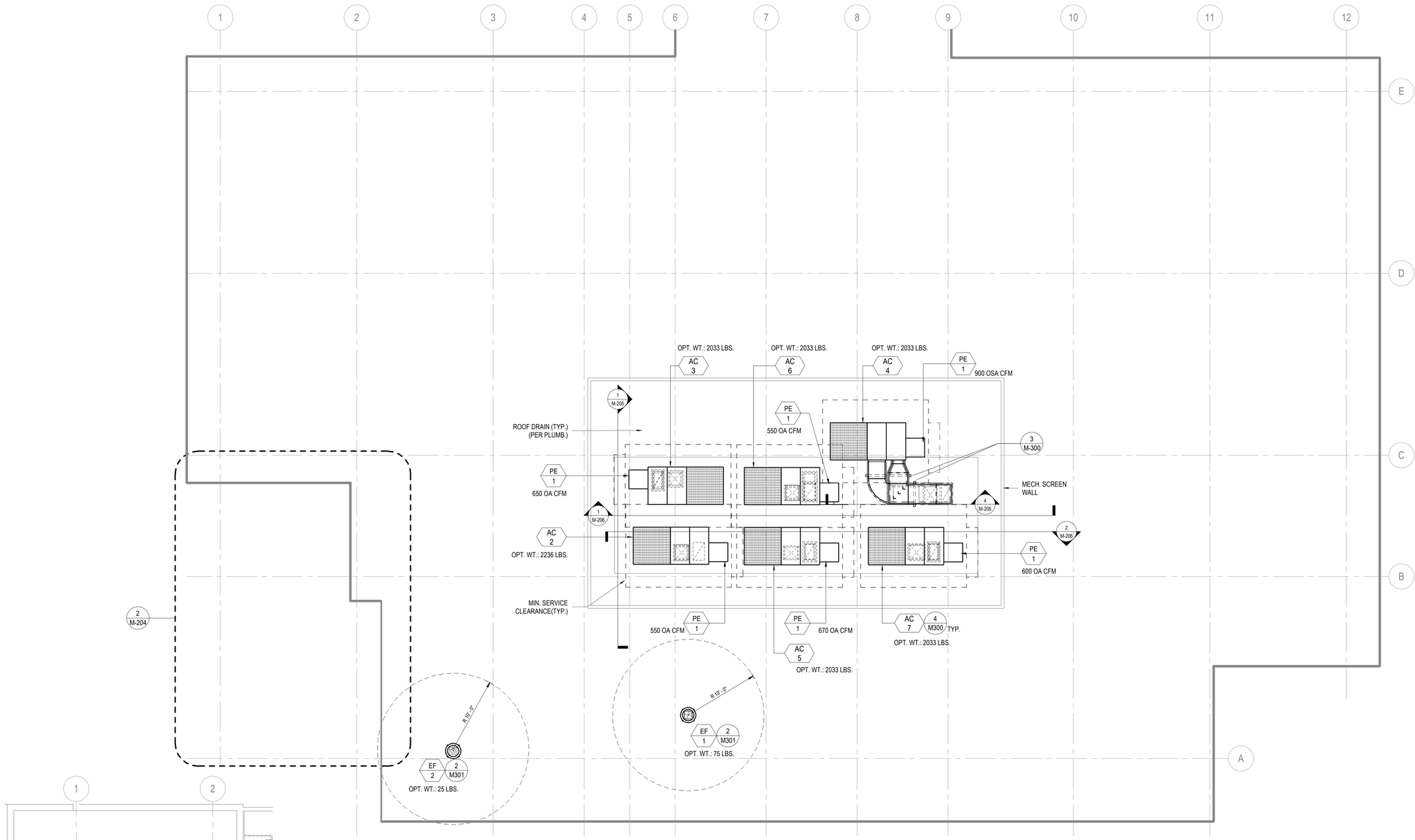
COUNTY PROJECT NUMBER
P6T24008

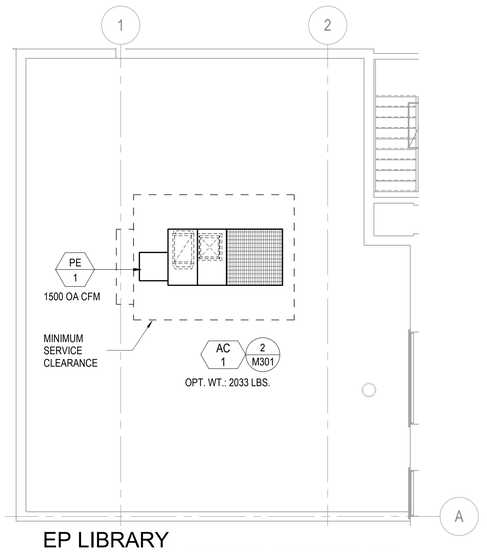
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
ENLARGED MECHANICAL FLOOR PLANS

SHEET NO
M-203



EP LIBRARY
1 MECHANICAL ROOF PLAN
Scale: 3/16"=1'-0"



EP LIBRARY
2 MECHANICAL LOWER ROOF PLAN
Scale: 3/16"=1'-0"

LEGENDS

- - - - ACOUSTICAL LINING
— — — INSULATION

NOTES:

1. ALL DUCTING AND AIR DISTRIBUTION DEVICES ARE NEW.
2. ARCHITECT/CONTRACTOR TO VERIFY THE FINAL LOCATION OF THERMOSTAT.

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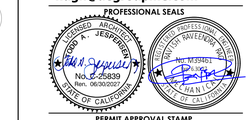

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PROJECT TITLE AND ADDRESS

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COUNTY SPEC NUMBER -

COUNTY PROJECT NUMBER P6T24008

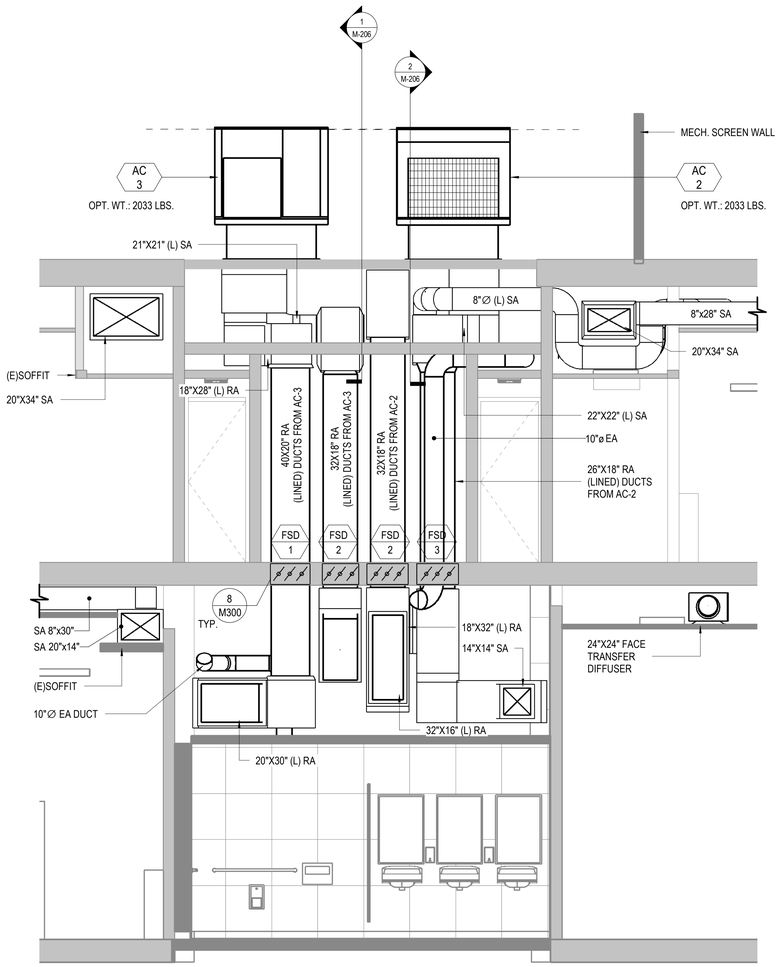
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE

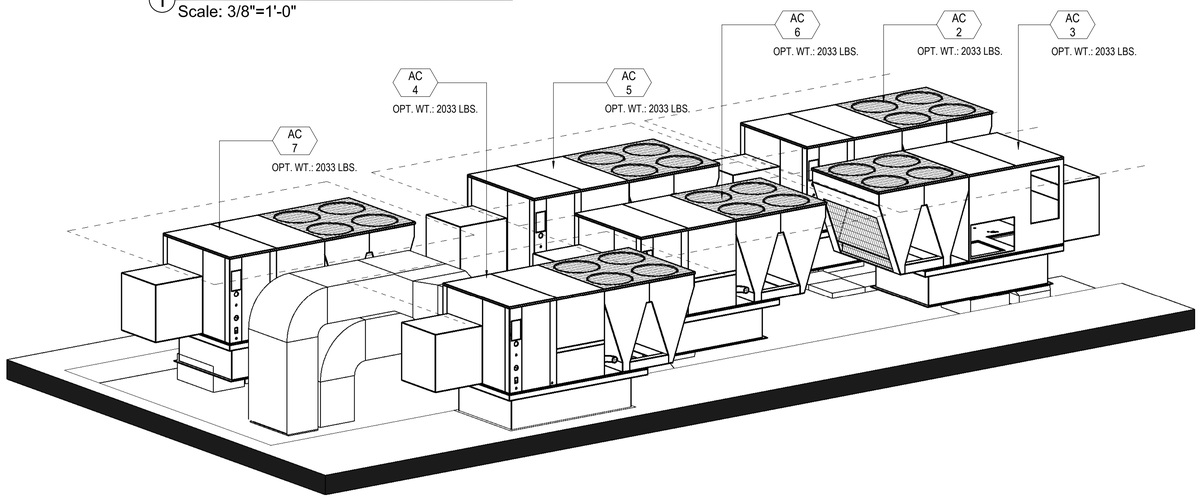
MECHANICAL ROOF PLAN

SHEET NO

M-204

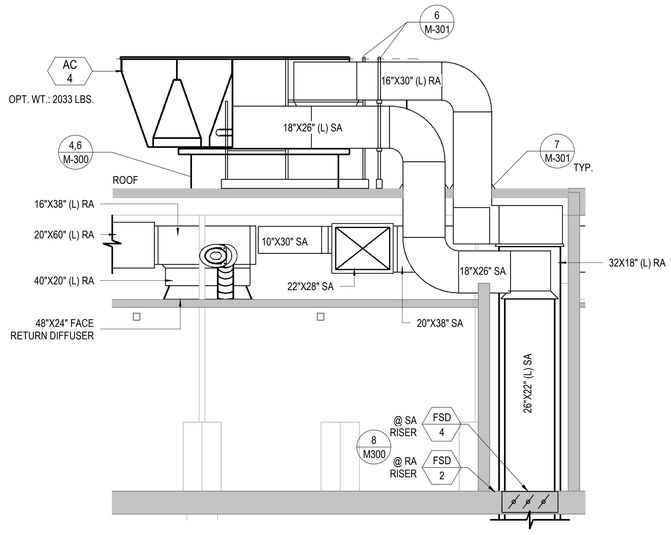


EP LIBRARY
1 WEST SHAFT SECTION
Scale: 3/8"=1'-0"



EP LIBRARY
3 ROOF EQUIPMENT 3D
Scale: None

EP LIBRARY
2 ROOF EQUIPMENT 3D
Scale: None



EP LIBRARY
4 SECTION AC-4
Scale: 3/8"=1'-0"

LEGENDS

- ACCOUSTICAL LINING
- INSULATION

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PROFESSIONAL SEALS

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No. M39461
STATE OF CALIFORNIA

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COUNTY SPEC NUMBER
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COUNTY PROJECT NUMBER
P6T24008

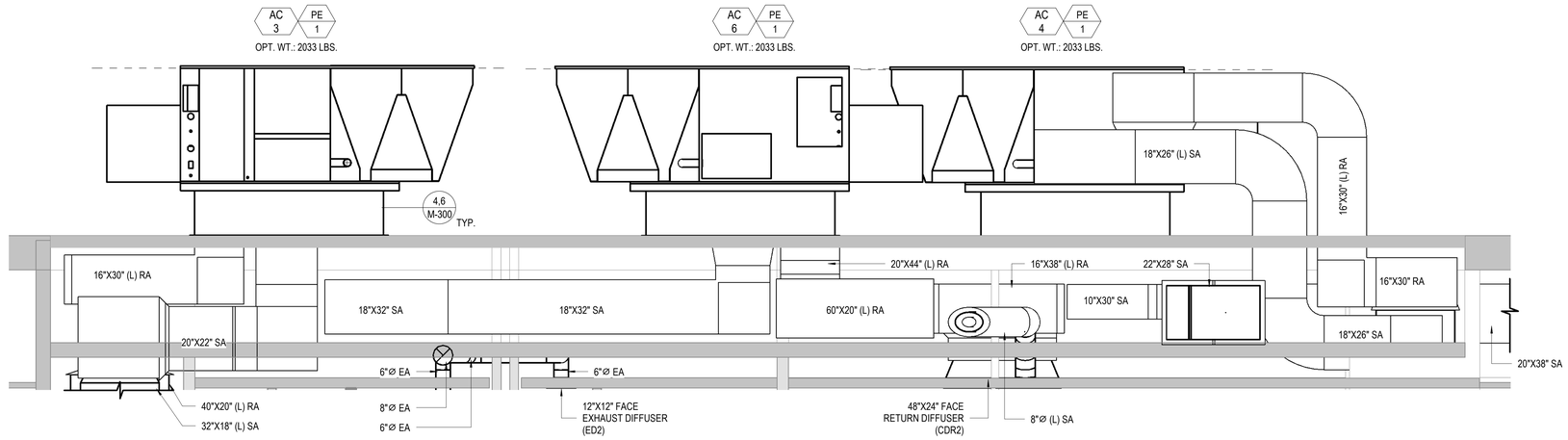
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
SECTIONS AND
3D VIEW

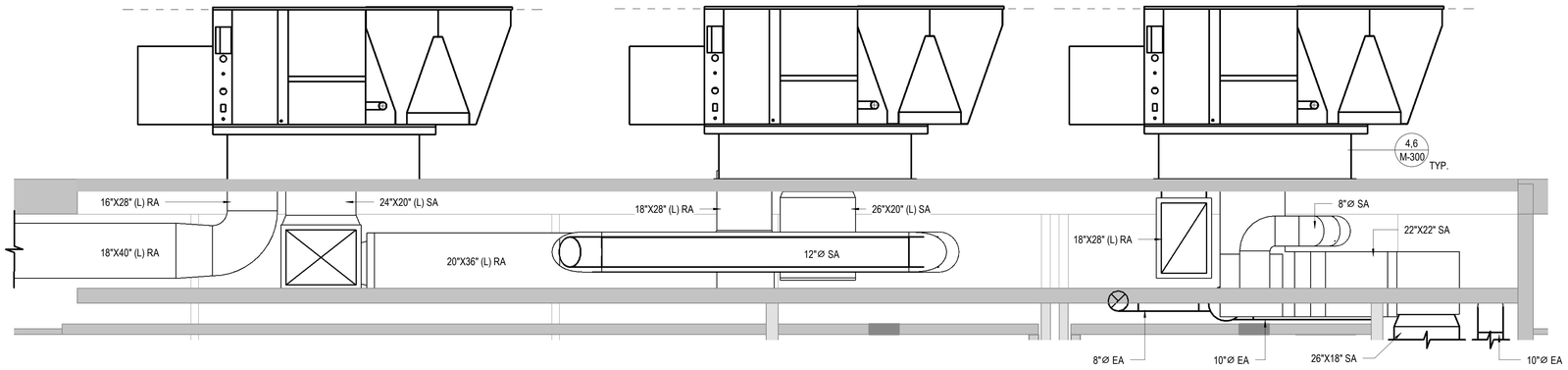
SHEET NO
M-205

LEGENDS

- - - - ACCOUSTICAL LINING
— - — INSULATION



EP LIBRARY
ROOF EQUIPMENT SECTION 1
Scale: 1/2" = 1'-0"



EP LIBRARY
ROOF EQUIPMENT SECTION 2
Scale: 1/2" = 1'-0"

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RAVISH RAVEENDRA RAO, PE

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ARCHITECTS JOB NO	DATE
24004	10/06/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
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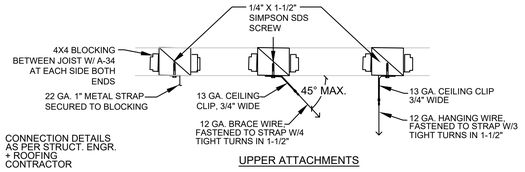
COUNTY PROJECT NUMBER
P6T24008

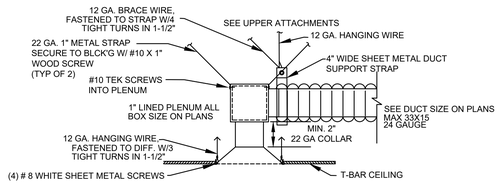
COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
SECTION VIEWS

SHEET NO
M-206

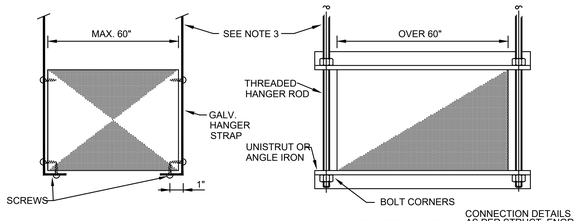


UPPER ATTACHMENTS



CEILING DIFFUSER & SIDEWALL DIFFUSER 1

SCALE: NONE



STRAP HANGERS

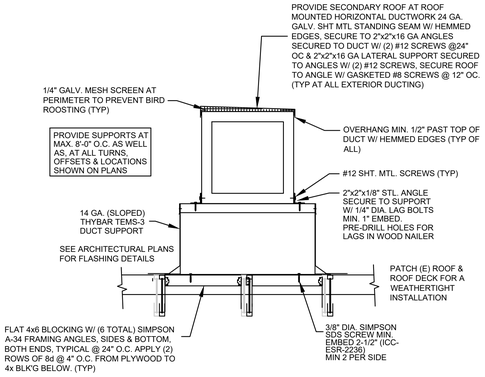
TRAPEZE HANGERS

NOTES:

1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQ FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
3. SUPPORTS SHALL BE SPACED AND SIZED AS PER SMACNA.
4. FOR HANGERS SIZE AND SPACING, SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS TABLE 4-1.
5. FOR UPPER ATTACHMENT TO BUILDING, SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FIG.4-1 & FIG.4-2, WITH SPECIFIC BUILDING STRUCTURAL ENGINEER APPROVAL.
6. FOR BRACING AND OTHER SEISMIC REQUIREMENTS, SEE GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS & PLUMBING PIPING SYSTEMS PUBLISHED BY SMACNA.

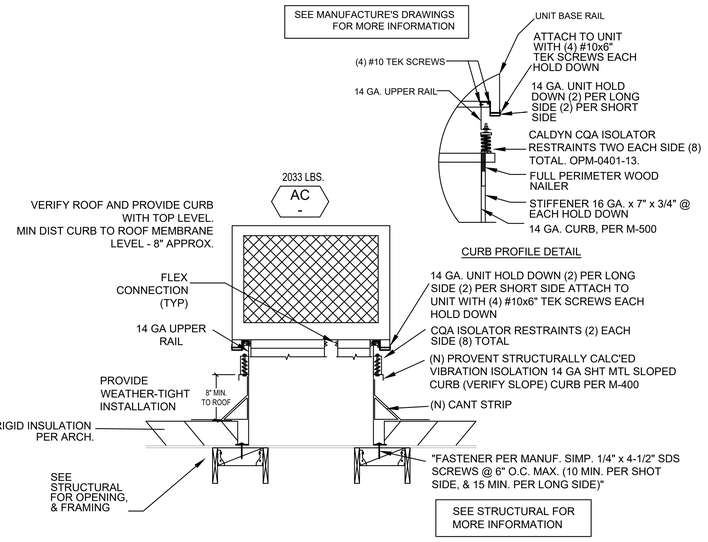
DUCT HANGER SUPPORT DETAIL 2

SCALE: NONE



ROOF DUCT SUPPORT DETAIL 3

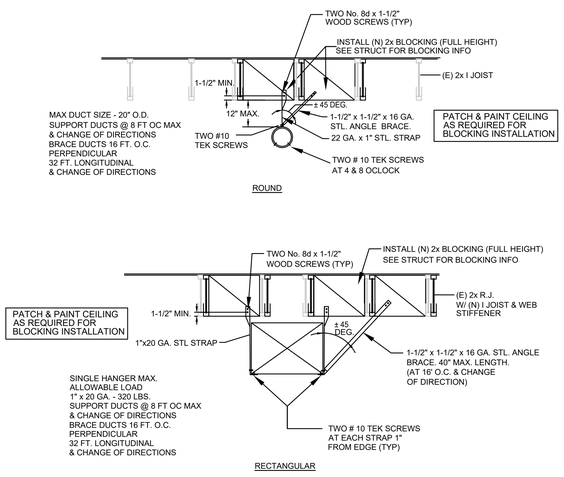
SCALE: NONE



CURB PROFILE DETAIL

PACKAGED ROOFTOP UNIT ANCHORAGE DETAIL AT WOOD FRAMING 4

SCALE: NONE

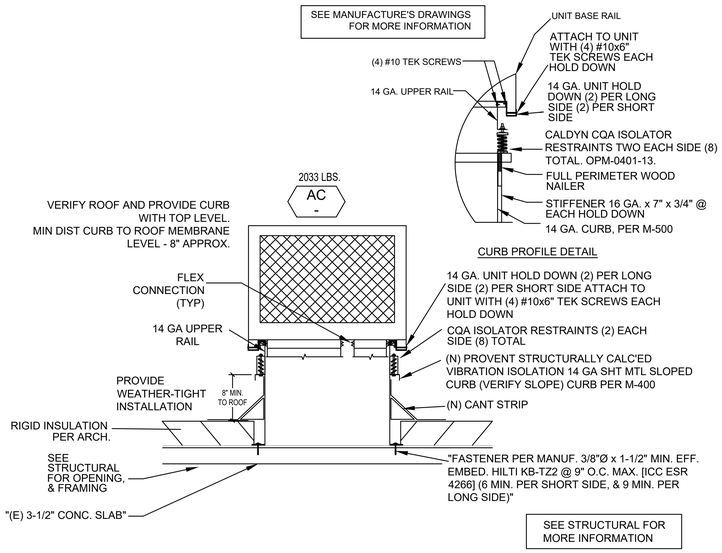


ROUND

RECTANGULAR

DUCT SUPPORT DETAILS 5

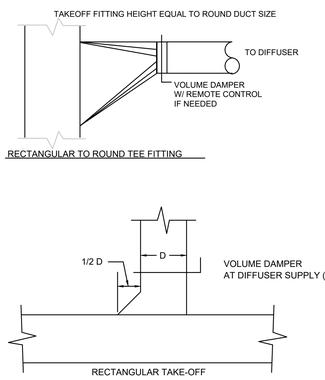
SCALE: NONE



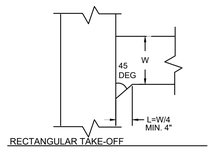
CURB PROFILE DETAIL

PACKAGED ROOFTOP UNIT ANCHORAGE DETAIL AT CONCRETE SLAB/BEAM 6

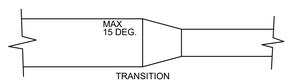
SCALE: NONE



NOTES
1. ALL DUCTWORK SHALL BE CONSTRUCTED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS
2. PRESSURE CLASS +2".



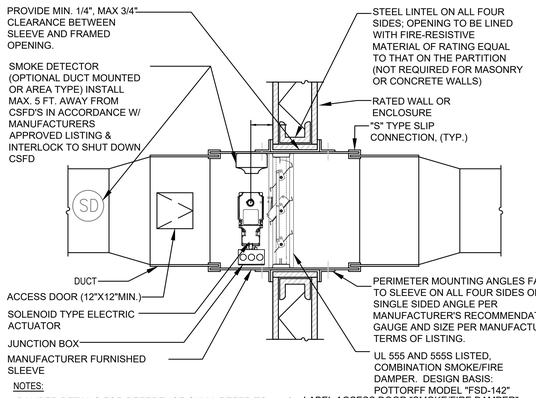
RECTANGULAR TAKE-OFF



TRANSITION

TYPICAL DUCT CONSTRUCTION STANDARDS 7

SCALE: NONE

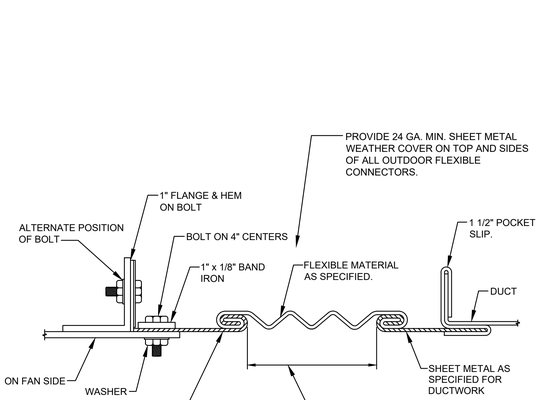


NOTES:

1. DAMPER DETAILS FOR REFERENCE ONLY. REFER TO MANUFACTURER INSTALLATION MANUAL.
2. PROVIDE DUAL POSITION SWITCH FOR REMOTE ANNUNCIATION AND STATUS.
3. COMBINATION SMOKE/FIRE DAMPERS SHALL BE STATE FIRE MARSHALL (CSFM) APPROVED (LISTING NO.3225-0368:110 & 3230-0368:111). INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS.
4. LABEL ACCESS DOOR "SMOKE/FIRE DAMPER".
5. COORDINATE POWER REQUIREMENT AND LOCAL DISCONNECT SWITCH LOCATION WITH ELECTRICAL SECTIONS.
6. PROVIDE COMBINATION SMOKE/FIRE DAMPER 4 INCHES LARGER IN LENGTH AND IN WIDTH THAN THE CONNECTING DUCT (UP TO 24"x24", NO INCREASE REQUIRED ABOVE 24"x24"). PROVIDE CONCENTRIC DUCT TRANSITIONS AS REQUIRED.

COMBINATION FIRE/SMOKE DAMPER (DUCT MOUNTED) 8

SCALE: NONE



FLEXIBLE DUCT CONNECTOR 9

SCALE: NONE

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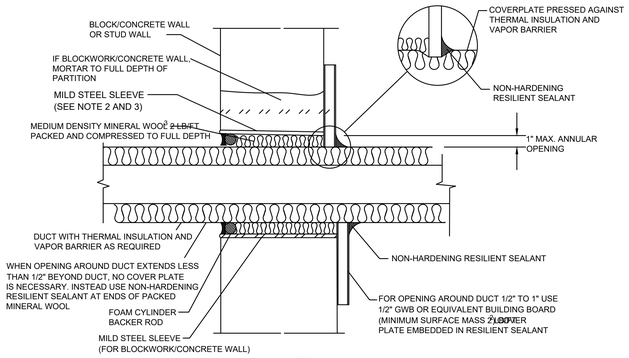
	____ OF ____

SHEET TITLE

MECHANICAL DETAILS

SHEET NO

M-300



PURPOSE:

TO MAINTAIN SOUND INSULATION BETWEEN ROOMS.

LOCATION:

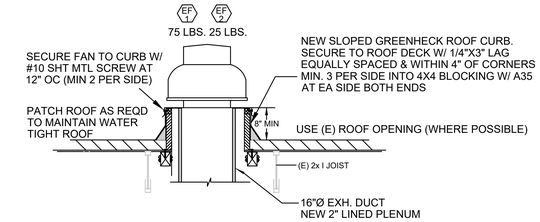
INSULATED DUCT PENETRATIONS AT ACOUSTIC WALLS.

NOTES:

1. DUCT SUPPORTS TO BE SPACED SUFFICIENTLY FROM PARTITION LINE TO ALLOW ACCESS FOR INSTALLATION/SEALING.
2. FOR BLOCK/CONCRETE WALL, THICKNESS OF MILD STEEL SLEEVE TO BE SUFFICIENT TO SUPPORT MORTAR AND INFILL ABOVE. MINIMUM THICKNESS 1/16".
3. AS ALTERNATIVE TO SLEEVE IN STUD WALLS, OPENING MAY BE FRAMED USING METAL STUDS/FURRING.

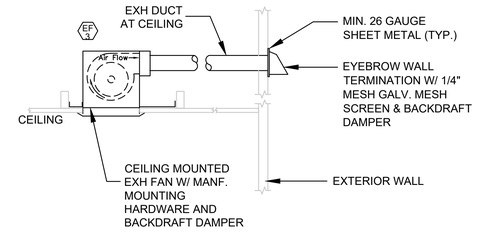
PENETRATION FOR INSULATED DUCTS AT NON-FIRE FATED ACOUSTIC WALLS (1)

SCALE: NONE



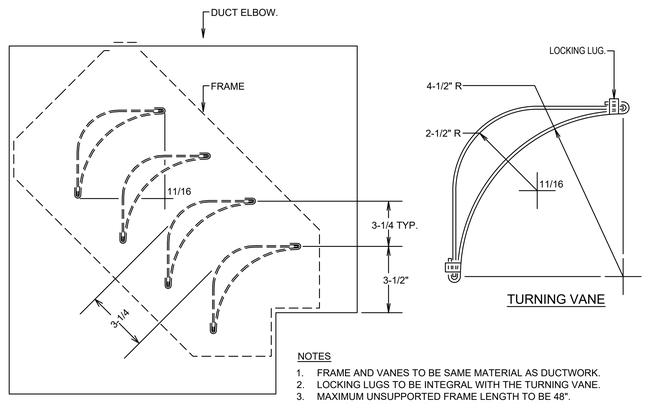
ROOF MOUNTED EXHAUST FAN DEATIL (2)

SCALE: NONE



CEILING MOUNTED EXHAUST FAN DEATIL (3)

SCALE: NONE



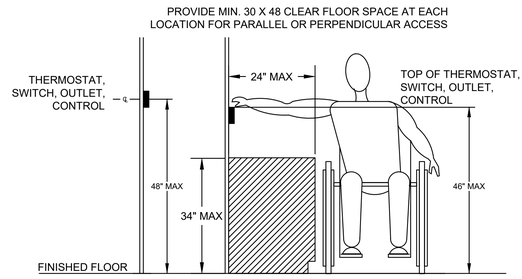
NOTES

1. FRAME AND VANES TO BE SAME MATERIAL AS DUCTWORK.
2. LOCKING LUGS TO BE INTEGRAL WITH THE TURNING VANE.
3. MAXIMUM UNSUPPORTED FRAME LENGTH TO BE 48".
4. FRAMES TO BE BOLTED OR RIVETED TO THE ELBOW.
5. VANES AND FRAMES TO BE SAME GAUGE AS THE ELBOW. (MINIMUM 20 GAUGE)
6. SQUARE ELBOWS ARE TO BE USED ONLY WHEN SPECIFICALLY INDICATED ON THE DESIGN DRAWINGS.

VANED ELBOW

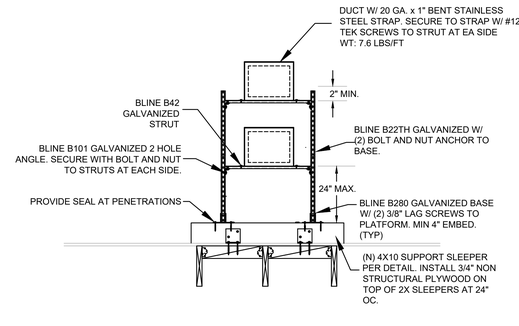
MITERED ELBOWS WITH DOUBLE THICKNESS TURNING VANES (4)

SCALE: NONE



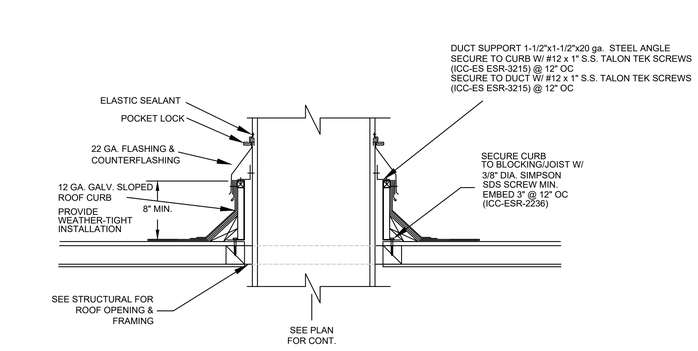
ADA SWITCH & THERMOSTAT HEIGHTS & CLEARANCES (5)

SCALE: NONE



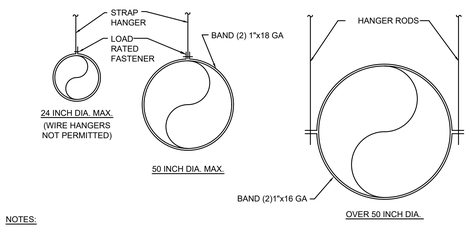
ROOF DUCT SUPPORT DETAIL (6)

SCALE: NONE



DUCT PENETRATION DETAIL (7)

SCALE: NONE



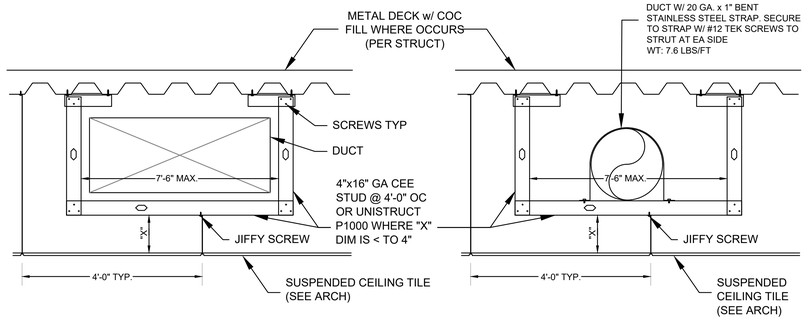
NOTES:

1. FOR HANGER SIZE AND SPACING, SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS TABLE 4.2
2. FOR UPPER ATTACHMENT TO BUILDING SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FIG. 4-1 AND FIG. 4-2, WITH SPECIFIC BUILDING STRUCTURAL ENGINEER APPROVAL.
3. FOR BRACING AND OTHER SEISMIC REQUIREMENTS SEE GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING. PIPING SYSTEMS PUBLISHED BY SMACNA AND PPIC. ALSO REFER TO NATIONAL UNIFORM SEISMIC INSTALLATION GUIDELINES (NUSIG) 1991 AS APPROVED BY OFFICE OF THE CALIFORNIA STATE ARCHITECT 9/25/92.

ROUND DUCT SUPPORT DETAIL (8)

SCALE: NONE

TYPICAL HORIZONTAL ROUND DUCT SUPPORTS



DUCT SUPPORT @ METAL DECK W/ CONC. FILL (9)

SCALE: NONE

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MECHANICAL DETAILS

SHEET NO
M-301