COUNTY OF VENTURA
PUBLIC WORKS AGENCY

Date: December 19, 2025

To: All Prospective Bidders

From: Gregg Strakaluse **Addendum No.1**
Director of Public Works

Subject: **Project Name: E.P. Foster Library Modernization**
Specification No. CP24-01
Bids to be Opened: Thursday, January 8, 2026 is changed to Wednesday, January 14, 2026

Make the following modifications to the bidding documents for subject project:

SPECIFICATIONS

1. Replace the Project Information Sheet of the Specifications with the attached Addendum No. 1 Project Information Sheet.
    a. Change the bid opening date from Thursday, January 8, 2026, at 2:00 PM to Wednesday, January 14, 2026, at 2:00 PM.

2. Add the following items to Specification Section 01 00 01 General Requirements - 1.21 Removal & Replacing Existing Items:
    7. The Contractor shall coordinate & work with Library staff to remove books from shelves, pack and organize the books in boxes, and clearly label all boxes.
    8. The Contractor shall coordinate & work with Library staff to pack computers and other equipment for temporary storage.
    9. Upon completion of construction, the Contractor shall coordinate & work with Library staff to unpack the books, computers and other equipment and return them to their original location.

3. Add the following to Specification Section 01 00 01 General Requirements:
    1.23 ASBESTOS REMOVAL AND ABATEMENT
    a. The Contractor shall remove, abate, and properly dispose of all hazardous materials identified in the Asbestos and Lead Survey Report included in Appendix H, in accordance with all applicable federal, state, and local regulations.

4. Add the attached Addendum No. 1 Specification Section 10 21 13.13 Metal Toilet Compartments, to the Technical Specifications.

5. Add the attached Addendum No. 1 Specification Section 10 28 00 Toilet, Bath, and Laundry Accessories, to the Technical Specifications.

6. Add the attached Addendum No. 1 Specification Section 14 24 10 Hydraulic Elevator, to the Technical Specifications.

PLANS

1. Replace Sheet AD-201 – Demo First Floor Plan with the attached Addendum No. 1 plan Sheet AD-201 – Demo First Floor Plan.
   Explanation: See cloud revisions. Keynote 217 has been revised to remove the existing carpet & linoleum down to concrete substrate. A new keynote 225 has been added to indicate the removal and replacement of the existing roof hatch and access ladder with new ones in the Topping Room closet.

2. Replace Sheet AD-202 – Demo Second Floor Plan with the attached Addendum No. 1 plan Sheet AD-202 – Demo Second Floor Plan.
   Explanation: See cloud revisions. Keynote 217 has been revised to remove the existing carpet & linoleum down to concrete substrate.

3. Replace Sheet AD-206 – Demo RCP- First Floor Plan with the attached Addendum No. 1 plan Sheet AD-206 – Demo RCP- First Floor Plan.
   Explanation: See cloud revisions. Demo Ceiling Legend has been updated to show existing ceiling access panel to be removed in the Topping Room closet.

4. Replace Sheet A-101 – Site Plan with the attached Addendum No. 1 plan Sheet A-101 – Site Plan.
   Explanation: See cloud revisions. The existing ramp near the Topping Room has been revised to show a new ramp, and keynote number 111 has been added to indicate the new ramp. The enlarged plan indication is noted as 2/A-103 for the new ramp

5. Add Addendum No. 1 plan Sheet A-103 – Ramp Plan Elevation and Details.
   Explanation: Added new sheet for the replacement of the existing ramp near the Topping Room.

6. Replace Sheet S-201 – Foundation Plan with the attached Addendum No. 1 plan Sheet S-201 – Foundation Plan.
   Explanation: See revision clouds. Two new concrete curbs along gridline C have been added at the Men (106) and Women (105) restrooms.

7. Replace Sheet E-100 – General Notes with the attached Addendum No. 1 plan Sheet E-100 – General Notes.
   Explanation: See revision clouds. Electrical Drawing Sheet Index updated with new added sheets; E-406 First Floor Lighting Controls Plan, E-407 Second Floor Lighting Controls Plan, E-408 Lighting Control Wiring Diagrams, SCE Drawing 1 of 2, SCE Drawing 2 of 2.

8. Replace Sheet E-300 – First Floor Demolition Power Plan with the attached Addendum No. 1 plan Sheet E-300 – First Floor Demolition Power Plan.
   Explanation: See revision clouds. Added project area line work to the drawing for Friends of Library (FOL) space and Hallway area.

9. Replace Sheet E-402 – First Floor Lighting Plan with the attached Addendum No. 1 plan Sheet E-402 – First Floor Lighting Plan.
   Explanation: See revision clouds. Added Wall Wash Light fixtures to replace existing. Added Light Fixture Type “WW”

10. Replace Sheet E-403 – Second Floor Lighting Plan with the attached Addendum No. 1 plan Sheet E-403 – Second Floor Lighting Plan.
    Explanation: See revision clouds. Added Wall Wash Light fixtures to replace existing. Added Light Fixture Type “WW

11. Replace Sheet E-404 –Lighting Fixture Schedule with the attached Addendum No. 1 plan Sheet E-404 –Lighting Fixture Schedule.
    Explanation: See revision clouds. Added Light Fixture Type “WW” to Lighting Fixture Schedule

12. Replace Sheet E-405 –Light Fixture Data Sheets with the attached Addendum No. 1 plan Sheet E-405 –Light Fixture Data Sheets
    Explanation: See revision clouds. Added Light Fixture Type "WW" Data Sheet detail 5.

13. Add Addendum No. 1 plan Sheet E-406 – First Floor Lighting Controls Plan.
    Explanation: Added new sheet showing Lighting Controls.

14. Add Addendum No. 1 plan Sheet E-407 – Second Floor Lighting Controls Plan.
    Explanation: Added new sheet showing Lighting Controls.

15. Add Addendum No. 1 plan Sheet E-408 –Lighting Controls Wiring Diagrams.
    Explanation: Added new sheet showing Lighting Controls Wiring Diagrams.

16. Add Addendum No. 1 SCE plan Sheet 1 of 2 Design/Drwg. No. 1889010_0.01
    Explanation: SCE sheet showing connection details to E Main St vault.

17. Add Addendum No. 1 SCE plan Sheet 2 of 2 Design/Drwg. No. 1889010_0.01

RESPONSES TO RFI'S

1. *Question: What is the scope of work for the fire alarm?*

   Reply: Existing fire alarm system is to be fully removed. New fire alarm is a deferred approval and shall be a Bay Alarm system.

2. *Question: What is the scope of Public Address Systems?*

   Reply: Refer to Section 27 51 16 Public Address Systems, which is a performance specification. New PA system shall be a deferred approval and shall be added to the list on plan sheet G-001

3. *Question: How many paging zones are there to be? Example… 1 per floor, 1 per room, 1 per speaker etc.? Please advise*

   Reply: For bidding purposes, include (4) zones per floor.

Acknowledgment of this addendum is required on the Bonfire website when submitting your bid. Failure to do so may result in the disqualification of your bid.

Approved: _____ (For) Gregg Strakaluse, Director

12/18/25
Date Approved

PROJECT INFORMATION

FOR

VENTURA COUNTY E.P. FOSTER LIBRARY MODERNIZATION

LOCATED IN
VENTURA COUNTY, CALIFORNIA

MAKE BID GUARANTEE TO **COUNTY OF VENTURA**
USE FORM PROVIDED (SEE PARAGRAPH 9, INSTRUCTION TO BIDDERS).

SPECIFICATION NO. **CP26-12** INCLUDING **113** SHEETS OF PLANS

BIDS WILL BE RECEIVED ELECTRONICALLY UNTIL **January 14, 2026** AT **2:00 P.M.**

AGENCY IS ALLOWED **60** DAYS TO AWARD A CONTRACT (SEE SECTION 1-7.3).

THE STARTING DATE OF CONTRACT WILL BE **28** CALENDAR DAYS AFTER AWARD OF CONTRACT (SEE SECTION 6-3.2.1).

COMPLETION TIME IS **215** WORKING DAYS (SEE SECTION 6-3).

LIQUIDATED DAMAGES ARE **$ 2,650** PER CALENDAR DAY (SEE SECTION 6-9).

CONTRACTOR'S LICENSE CLASSIFICATION REQUIRED IS **CLASS B.**

LIABILITY INSURANCE CLASS REQUIRED PER SECTION 5-4.2.2 IS **L-C.**

NON-MANDATORY PREBID MEETING: 2:00 P.M on Wednesday, December 10, 2025 at the project site: 651 E Main Street, Ventura, CA 93001 (Section 01 00 01)

Addendum No.1

SECTION 10 21 13.13
METAL TOILET COMPARTMENTS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Metal toilet compartments.

B. Urinal screens.

1.02 RELATED REQUIREMENTS

A. Section 061000 - Rough Carpentry: Blocking and supports.

B. Section 102800 - Toilet, Bath, and Laundry Accessories.

1.03 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

B. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate the work with placement of support framing and anchors in walls and ceilings.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall and floor supports, door swings.

C. Product Data: Provide data on panel construction, hardware, and accessories.

D. Manufacturer's Installation Instructions: Indicate special procedures

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Metal Toilet Compartments:
   1. ASI Accurate Partitions; Stainless Steel: www.asi-accuratepartitions.com/sle.
   2. ASI Global Partitions; Stainless Steel: www.asi-globalpartitions.com/sle.
   3. General Partitions Mfg. Corp: www.generalpartitions.com/sle.
   4. Substitutions: Section 016000 - Product Requirements.

2.02 MATERIALS

A. Steel Sheet: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.

B. Stainless Steel Sheet: ASTM A666/A666M, Type 304.

2.03 COMPONENTS

A. Toilet Compartments: Stainless steel, floor-mounted headrail-braced.

B. Doors, Panels, and Pilasters: Sheet steel faces, pressure bonded to sound-deadening core, corners made with corner clips or mitered, welded, and ground smooth.

C. Door and Panel Dimensions:
   1. Thickness: 1 inch (25 mm).
   2. Door Width: 24 inches (610 mm).
   3. Door Width for Handicapped Use: 36 inch (915 mm) , out-swinging.
   4. Height: 63-1/2 inches (1613 mm).

D. Pilasters: 1-1/4 inch (32 mm) thick, of sizes required to suit compartment width and spacing.

E. Urinal Screens: Wall mounted with continuous panel brackets.

2.04 ACCESSORIES

A. Pilaster Shoes: Formed ASTM A666 Type 304 stainless steel with No.4 finish, 3 inches (175 mm) high, concealing floor fastenings.
   1. Provide adjustment for floor variations with screw jack through steel saddles integral with pilaster.

B. Head Rails: Hollow stainless steel tube, 1 by 1-5/8 inches (25 by 41 mm) in size, with anti-grip strips and cast socket wall brackets.

C. Brackets: Satin stainless steel.

D. Attachments, Screws, and Bolts: Stainless steel, tamper-proof type.

E. Hardware: Satin stainless steel:
   1. Pivot hinges, gravity type, adjustable for door close positioning; two per door.
   2. Thumb turn or sliding door latch with exterior emergency access feature.
   3. Door strike and keeper with rubber bumper; mounted on pilaster in alignment with door latch.
   4. Coat hook with rubber bumper; one per compartment, mounted on door.
   5. Provide door pull for outswinging doors.

2.05 FINISHING

A. Stainless Steel Compartments: No. 4 finish

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that field measurements are as indicated.

C. Verify correct spacing of and between plumbing fixtures.

D. Verify correct location of built-in framing, anchorage, and bracing.

3.02 INSTALLATION

A. Install partitions secure, rigid, plumb, and level in accordance with manufacturer's instructions.

B. Maintain 3/8 to 1/2 inch (9 to 13 mm) space between wall and panels and between wall and end pilasters.

C. Attach panel brackets securely to walls using anchor devices.

D. Attach panels and pilasters to brackets. Locate head rail joints at pilaster center lines.

3.03 TOLERANCES

A. Maximum Variation From True Position: 1/4 inch (6 mm).

B. Maximum Variation From Plumb: 1/8 inch (3 mm).

3.04 ADJUSTING

A. Adjust and align hardware to uniform clearance at vertical edge of doors, not exceeding 3/16 inch (5 mm).

B. Adjust hinges to position doors in partial opening position when unlatched. Return out swinging doors to closed position.

C. Adjust adjacent components for consistency of line or plan

END OF SECTION

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SECTION 10 28 00
TOILET, BATH AND LAUNDRY ACCESSORIES

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Commercial toilet accessories.

B. Under-lavatory pipe supply covers.

C. Electric hand/hair dryers.

D. Diaper changing stations.

E. Utility room accessories.

1.02 RELATED REQUIREMENTS

A. Section 06 1000 Rough Carpentry: Concealed supports for accessories, including in wall framing and plates and above ceiling framing.

B. Section 10 2113.13 - Metal Toilet Compartments.

C. Section 22 4000 - Plumbing Fixtures: Under-lavatory pipe and supply covers.

1.03 REFERENCE STANDARDS

A. ASTM A269/A269M - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service; 2025.

B. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.

C. ASTM C1036 - Standard Specification for Flat Glass; 2025.

D. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass; 2025.

E. ASTM C1503 - Standard Specification for Silvered Flat Glass Mirror; 2024.

F. ASTM F2285 - Standard Consumer Safety Performance Specification for Diaper Changing Tables for Commercial Use; 2022.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with the placement of internal wall reinforcement, concealed ceiling supports, and reinforcement of toilet partitions to receive anchor attachments.

1.05 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Manufacturer's Installation Instructions: Indicate special procedures and conditions requiring special attention

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Commercial Toilet, Shower, and Bath Accessories:
   1. American Specialties, Inc: www.americanspecialties.com/#sle.
   2. Bradley Corporation: www.bradleycorp.com/#sle.
   3. Bobrick Washroom Equipment, Inc.: www.bobrick.com.

B. Under-Lavatory Pipe Supply Covers:
   1. Plumberex Specialty Products, Inc: www.plumberex.com/sle.
   2. IPS Corporation; Truebro: https://ipsplumbingproducts.com/brands/truebro/.
   3. Substitutions: Section 01 6000 - Product Requirements.

C. Electric Hand/Hair Dryers:

1. American Specialties, Inc; TRI-Umph High Speed Handryer: www.americanspecialties.com/#sle.
2. Dyson Inc; Dyson Airblade V: www.dyson.com/sle.
3. Saniflow Hand Dryer Corporation: www.saniflowcorp.com/sle.
4. Bobrick TrimLineSeries™ Recessed Automatic Hand Dryer: www.bobrick.com.
5. Substitutions: Section 01 6000 - Product Requirements.

D. Diaper Changing Stations:
1. American Specialties, Inc; Model 9022: www.americanspecialties.com/#sle.
2. Bradley Corporation; Model 962-11: www.bradleycorp.com/sale.
3. Koala Kare Products; KB310-SSWM: www.koalabear.com/sle.
4. Substitutions: 01 6000 - Product Requirements.

E. Provide products of each category type by single manufacturer.

2.02 MATERIALS

A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.

B. Keys: Provide two keys for each accessory to Owner; master key lockable accessories.

C. Stainless Steel Sheet: ASTM A666/A666M, Type 304.

D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.

E. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.

F. Mirror Glass: Tempered safety glass, ASTM C1048; and ASTM C1036 Type I, Class 1, Quality Q2, with silvering as required.

G. Adhesive: Two components epoxy type, waterproof.

H. Fasteners, Screws, and Bolts: Hot dip galvanized; tamper-proof; security type.

I. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FINISHES

A. Stainless Steel: Satin finish, unless otherwise noted.

2.04 COMMERCIAL TOILET ACCESSORIES

A. TA-01 Seat Cover Dispenser: Stainless steel, surface-mounted, reloading by hinged front panel.
1. Minimum capacity: 500 seat covers.
2. Products:
a. American Specialties, Inc; Model 6477-9 "Simplicity": www.americanspecialties.com/#sle.
b. Substitutions: Section 01 6000 - Product Requirements.

B. TA-02 Toilet Paper Dispenser: Double roll, recessed type, stainless steel, spindleless type for tension spring delivery designed to prevent theft of tissue roll.
1. Products:
a. American Specialties, Inc; Model 0031: www.americanspecialties.com/#sle.
b. Substitutions: Section 01 6000 - Product Requirements.

C. TA-03 Sanitary Napkin Disposal Unit: Stainless steel, recessed, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle.
1. Products:
a. American Specialties, Inc; Model 0473: www.americanspecialties.com/#sle.
b. Substitutions: Section 01 6000 - Product Requirements.

D. TA-04 and TA-05 Grab Bars: Stainless steel, smooth surface.
   1. Heavy Duty Grab Bars: Floor supports are not acceptable.
      a. Push/Pull Point Load: Minimum 250 pound-force (1112 N), minimum.
      b. Dimensions: 1-1/2 inch (38 mm) outside diameter, minimum 18-gauge wall thickness, concealed flange mounting, 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
      c. Length and Configuration: As indicated on drawings.
      d. Products:
         1) American Specialties, Inc; Model Series 3800: www.americanspecialties.com/#sle.
         2) Substitutions: Section 01 6000 - Product Requirements.

E. TA-06 Paper Towel Dispenser: Folded paper type, stainless steel, surface-mounted, with viewing slots on sides as refill indicator and tumbler lock.
   1. Capacity: 500 multifold minimum.
   2. Products:
      a. American Specialties, Inc; Model 20210 "Roval": www.americanspecialties.com/#sle.
      b. Substitutions: Section 01 6000 - Product Requirements.

F. TA-07 Mirrors: Stainless steel framed, 1/4 inch (6 mm) thick annealed float glass; ASTM C1036.
   1. Annealed Float Glass: Silvering, protective and physical characteristics in compliance with ASTM C1503.
   2. Size: 24 inch x 36 inch.
   3. Frame: 0.05-inch (1.3 mm) angle shapes, with mitered and welded and ground corners, and tamperproof hanging system; satin finish.
   4. Products:
      a. American Specialties, Inc; Model 0620 Series: www.americanspecialties.com/#sle.
      b. Substitutions: Section 01 6000 - Product Requirements.

G. TA-08 Soap Dispenser: Liquid soap dispenser, wall-mounted, surface, with stainless steel cover and horizontal stainless steel tank and working parts; push type soap valve, check valve, and tamper-resistant window gauge refill indicator.
   1. Minimum Capacity: 40 ounces (1.18 liters).
   2. Products:
      a. American Specialties, Inc; Model 0347: www.americanspecialties.com/#sle.
      b. Substitutions: Section 01 6000 - Product Requirements.

H. TA-11 Sanitary Napkin Disposal Unit: Stainless steel, surface-mounted, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle.
   1. Products:
      a. American Specialties, Inc; Model 0473-A: www.americanspecialties.com/#sle.
      b. Substitutions: Section 01 6000 - Product Requirements.

I. TA-12 Toilet Paper Dispenser: Twin Jumbo roll, surface mounted, for cored or coreless type rolls.
   1. Products:
      a. American Specialties, Inc; Model 0040: www.americanspecialties.com/#sle.
      b. Substitutions: Section 01 6000 - Product Requirements.

2.05 UNDER-LAVATORY PIPE AND SUPPLY COVERS

A. Specified in 22 4000 - Plumbing Fixtures.

2.06 DIAPER CHANGING STATIONS

A. TA-09 Diaper Changing Station: Wall-mounted folding diaper changing station for use in commercial toilet facilities, meeting or exceeding ASTM F2285.
   1. Material: Stainless steel.
   2. Mounting: Surface.

3. Minimum Rated Load (tested): 300 pounds (136.1 kg).
4. Products:
   a. Saniflow Hand Dryer Corporation; Babymedi Horizontal Model CP0016HCS: www.saniflowcorp.com/#sle.
   b. American Specialties, Inc; Model 9013-9: www.americanspecialties.com/#sle.
   c. Substitutions: 01 6000 - Product Requirements.

2.07 ELECTRIC HAND/HAIR DRYERS

A. TA-10 Electric Hand Dryers: Traditional fan-in-case type, with downward fixed nozzle.
   1. Operation: Automatic, sensor-operated on and off.
   2. Mounting: Wall-mounted - surface.
   3. Cover: Stainless steel with brushed finish.
      a. Tamper-resistant screw attachment of cover to mounting plate.
   4. Fan/Heater Control: Field adjustable down to approximately half-speed with corresponding reduction in heat output.
   5. Electric Hand Dryer Products:
      a. Saniflow Hand Dryer Corporation; Speedflow M17ACS-UL : www.saniflowcorp.com/#sle.
      b. American Specialties, Inc; Model 0192-1-93: www.americanspecialties.com/#sle.
      c. Dyson; Airblade V: www.dyson.com/commercial/products.
      d. Substitutions: Section 01 6000 - Product Requirements.

2.08 UTILITY ROOM ACCESSORIES

A. Combination Utility Shelf/Mop and Broom Holder: 0.05 inch (1.3 mm) thick stainless steel, Type 304, with 1/2 inch (12 mm) returned edges, 0.06 inch (1.6 mm) steel wall brackets.
   1. Hooks: Four, 0.06 inch (1.6 mm) stainless steel rag hooks under shelf.
   2. Mop/broom holders: Three spring-loaded rubber cam holders at shelf front.
   3. Length: Manufacturer’s standard length for number of holders/hooks.
   4. Products:
      a. American Specialties, Inc; Model 1308-3: www.americanspecialties.com/#sle.
      b. Substitutions: 01 6000 - Product Requirements.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify exact location of accessories for installation.

C. For electrically-operated accessories, verify that electrical power connections are ready and in the correct locations.

D. See Section 06 1000 Rough Carpentry for installation of blocking, reinforcing plates, and concealed anchors in walls and ceilings.

3.02 PREPARATION

A. Deliver inserts and rough-in frames to site for timely installation.

B. Provide templates and rough-in measurements as required.

3.03 INSTALLATION

A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.

B. Install plumb and level, securely and rigidly anchored to substrate.

C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.

3.04 PROTECTION

A. Protect installed accessories from damage due to subsequent construction operations.

END OF SECTION

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SECTION 14 24 10
MODERNIZATION OF EXISTING HYDRAULIC ELEVATOR

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope: Provide materials, labor, and services necessary for the complete modernization of existing electric hydraulic elevators.
   1. Modernize one hydraulic elevator.
      a. The Contractor shall work normal hours and normal days with the exception of noisy work, which shall be performed from 5 a.m. to 8 a.m. Noisy work is considered work which will create disruption to normal court or building operation and is performed in the hoistways/lobbies/elevator cabs. The work in the machine room is not considered to be part of this “noisy” work.

B. Any cranes used to bring equipment into the building shall be the responsibility of the Elevator Contractor and shall be scheduled for use on weekends. Permits for cranes are the Elevator Contractor’s responsibility

C. Upon bidding the work, the Contractor shall indicate any additional code compliance items which may be affected as a result of this work. This shall be reported to Owner’s Representative and Architect, regardless of whether it is included in any contract document including the specifications and drawings.

D. If additional work is required for compatibility with the Contractor’s equipment, that shall be identified and itemized with the bid submittal.

E. The new cab and car components shall be designed to stay within 5% of the original car weight, as stamped on the crosshead. Should the original weight be exceeded by more than 5%, comply with all ASME A17.1 requirement and report the specific conditions to Owner and Consultant prior to manufacture of any equipment.

F. The Contractor is required to design all changes to not exceed a 5% increase in the original deadweight of the car enclosure, plus rated capacity. Should the total car weight be exceeded, Contractor shall be responsible for the following:
   1. All code-required changes.
   2. Provide structural calculations as required by code to determine integrity and capability of existing elevator components including machine support beams, with ASME A17.1, to withstand the new weights.
   3. Review of existing structural electrical and mechanical provisions for compatibility with Contractor’s products.
   4. Documentation shall be furnished to the enforcing code authorities verifying the results.
   5. Owner shall not be responsible for changes to structural, mechanical, electrical or
      a. other systems required to accommodate Contractor’s equipment.

1.02 NON-PROPRIETARY EQUIPMENT

A. It is recognized that each manufacturer’s system contains components that are proprietary to the development of their systems. The Owner may wish to have the elevator system maintained by another technically qualified service provider and by submitting a bid for this project, the manufacturer shall guarantee that for a minimum of 20 years they will provide the following:
   1. Diagnostic, adjusting and monitoring tools for all components including documents, manuals, wiring diagrams and spare parts as listed in part 3 of this specification shall be provided in each machine room, controller room or machine space as a permanent part of the installation and become the property of the Owner. Devices shall be permanent at no additional cost to Owner, shall not self-destruct, and require charging or exchange. Remote monitoring devices are excluded from this requirement, however if such devices are removed all wiring shall be neatly terminated, tied within a junction box and properly marked as to its content.

2. Manufacturer shall guarantee to support the equipment for this project with regard to notification to Owner of system corrective updates, provide and be responsible for the cost to install such updates at no cost to Owner.
3. Provide contact information for their separate parts warehouse so that the Owner or designated service provider can order parts on a 24-hour basis and delivered with 48 hours.
4. Provide a list of parts of each component manufactured and stored at the warehouse and the retail cost of each at closeout of the project and estimated escalation cost. The cost of these parts is what would be charged to Owner or other service provider
5. Provide contact information for technical support so that the Owner or designated service provider can obtain technical support on a 24-hour basis to provide assistance in troubleshooting problems. Indicate hourly rate charged to Owner or designated service provider for such service.

1.03 CONTRACTOR RESPONSIBILITY

A. GENERAL REQUIREMENTS

1. Should additional work be required either due to code or the elevator contractor's specific requirements, these shall be noted and included with the bid. In the absence of such a list it is assumed the Contractor's equipment is compatible with the existing building system and any resulting work or revisions to the building or to the elevators shall be the responsibility of the Elevator Contractor.
2. Verify existing building systems including but not limited to mechanical, electrical system and fire life safety is compatible with the new equipment being proposed, identify any necessary modifications and include modifications in bid.
3. Provide all floor protection to disburse the weight of materials being removed and/or brought into the facility. Floor protection shall be adequate to prevent damage to existing flooring. Contractor accepts responsibility for cost of replacing
   a. any building surfaces, features or finishes damaged by their actions.
4. Provide, identify and protect clear pathway, subject to Owner's prior approval, for any and all movement and storage of equipment, material and tools, around the property and within the building.
5. Provide guards and barricades to shield people from worksite hazards, including open hoistway, machinery, materials, equipment, and tools.
6. Protect premises from damage throughout course of construction, including floors, walks, walls, thresholds, entrance frames, doors, equipment, etc. Repair or replace items damaged or marred during construction.
7. Clean and apply one finish coat of low VOC low odor, industrial enamel paint on areas and equipment as specified.
8. Apply one finish coat of low VOC low odor, industrial enamel paint on the machine room walls, ceilings and floors.
9. Perform code and performance related tests as specified.
10. Remove and properly dispose of discarded equipment and materials, including debris, rubbish, oil and lubricants.
11. Adjust all safety and emergency control related devices and perform code mandated safety tests.
12. Remove and legally dispose of all elevator equipment replaced by this modification. Removed equipment shall be disposed of as fast as it accumulates and shall not be staged in public spaces.
13. Contractor shall include all code required items, permits, testing, records and inspection costs.
14. Coordinate with the Contractor to restore all damaged building finishes, including carpet, door frames, walls, ceilings, etc. to pre-modernization condition.
15. All modifications to the entry/exit areas shall be the Owner's responsibility but are the Contractor's responsibility to coordinate.

16. Provide LED pit lighting of not less than 100 lx (10 fc), measured at the pit floor. Furnish properly located light switch and GFCI duplex outlet near pit entry.
17. Provide GFCI convenience outlets in pit for sump pump.
18. Removal all non-elevator equipment from machine room, as required by the Cal/OSHA Elevator Unit.
19. Provide a class “ABC” fire extinguisher mounted inside each machine room.
20. Secure the storage space for tools and materials.
21. Include all costs associated with the safe hoisting of new equipment to the machine room.

1.04 RELATED BUILDING WORK.

A. The following work shall be the responsibility of the other trades.
   1. Patching and finishing around entrances and adjacent flooring after installation.
      a. Provide code-required machine room door signage.
   2. All modifications to the entry/exit areas shall be the Owner’s responsibility but are the Contractor’s responsibility to coordinate.
   3. Bevel all shaft ledges with an angle of not less than 75 degrees with the horizontal, where required.
   4. Provide all required hoistway wall patching.
   5. Modifications to the existing hoistway walls.
   6. Wall block outs and fire rated closure for control and signal fixture boxes which penetrate walls.
   7. Patching and finishing around entrances and adjacent flooring after installation.
   8. All modifications to the entry/exit areas shall be the Owner’s responsibility but are the Contractor’s responsibility to coordinate.
   9. Coordinate with the Contractor to restore all damaged building finishes, including carpet, door frames, walls, ceilings, etc. to pre-modernization condition. Build back surfaces and or building areas to match pre-existing finishes.
   10. Removal of all non-elevator equipment from machine room.
   11. Provide storage space for tools and materials. Contractor shall be responsible for securing the area.

B. Mechanical: Provide adequate machine room heating and cooling necessary to maintain an ambient temperature between 55 and 85 degrees Fahrenheit, with relative humidity not exceeding 85% non-condensing. The existing ventilation for the machine room will remain in place.

C. Electrical:
   1. Verify existing electrical system is compatible with the new equipment being proposed, identify any necessary modifications and include modifications in bid.
   2. Provide LED pit lighting of not less than 100 lx (10 fc), measured at the pit floor. Furnish properly located light switch and GFCI duplex outlet near pit entry. All to be NEMA 4 for wet application.
   3. Provide one GFCI type duplex utility receptacle near each elevator hoist machine. Replace existing outlets with GFCI type. Receptacles shall be manually reset type.
   4. Provide single non-GFCI outlet in pit when there is an existing sump pump.
   5. Provide required conduit between hoistway and remote elevator control panel.
   6. Provide proper machine room lighting arranged for optimal viewing of control equipment. The light level must be a minimum of 200 lx (19 fc), measured at the machine room floor. Provide sufficient quantity of T8 fluorescent fixtures with wire cage bulb guards. Locate light switch near the lockable side of the entry door.
   7. Provide properly sized, 3-phase power with lockable, fused disconnect switch at code required location for each elevator. Run feeder wires in separate code compliant conduit, terminated at each individual car controller or transformer. If alternate for auxiliary power supply is accepted, disconnect switch must be equipped with auxiliary contacts. Verify requirements with Contractor.

8. Provide 120 VAC single phase with fused disconnect switch mounted adjacent to group controller, where required. Verify requirements with Contractor.
9. Provide insulated copper grounding conductor from the main building ground to each power disconnect switch.

D. Fire Alarm—Refer to contract documents; Minimally the following is required?
1. Provide code compliant elevator recall fire alarm panel.
2. Provide addressable smoke detectors installed in accordance with NFPA 72 and City of Pasadena building code, capable of initiating Phase 1 Emergency Recall Operation and notifying the Fire Department via the Central Monitoring station or City Tie Fire Alarm Box where required.
3. Provide required main and alternate floor signals with wiring and contacts terminated in junction box, located in appropriate machine room. Machine room and elevator hoist way must be equipped with at least one smoke detector and one heat detector within 18” of each sprinkler head. Include required signals to flash the in-car fire hat in the event smoke or heat detector is activated in the machine room or hoistway.
4. OWNER RESPONSIBILITY:
   a. ACCESS TO SITE/GENERAL:
   b. On-site Parking shall be provided for the Contractor.
   c. Provide and designate adequate storage space for tools and materials.
   d. No objects adjacent to, and below, the hall push button station shall project more than 4-inches from the wall.

E. MACHINE ROOM:
1. Service all air conditioning systems and clean all vents.

1.05 REFERENCES

A. Applicable Codes (Latest Edition):
1. All work shall be completed in accordance with national, state and local codes in effect at time of award. All requirements of local building department and fire jurisdictions shall be fulfilled by the Contractor.
2. The American Society of Mechanical Engineers, Safety Code for Elevators and Escalators (ASME A17.1)
3. The American Society of Mechanical Engineers, Safety Code for Existing Elevators and Escalators (ASME A17.3 - Latest Edition)
4. American National Standard Accessible and Usable Buildings and Facilities (ICC/ANSI A117.1-Latest Edition)
5. National Fire Protection Association (NFPA 13)
6. National Fire Protection Association (NFPA 72)
7. National Electrical Code (NFPA 72)
8. American with Disabilities Act (ADA)
9. California State Building, Fire, Elevator and Accessibility Codes – 2022 Edition
10. American Welding Society (AWS) D1.1 - Structural Welding Code - Steel
11. Authorities having jurisdiction

1.06 CONTRACT

A. Contractor shall advise Consultant and Owner of any discrepancies or ambiguities found in the project specifications prior to submitting bid.

B. Contract includes all engineering, labor, tools, materials, permits, equipment, required to complete the specified work, except those items defined as to be performed by the Contractor.

C. Contractor shall familiarize itself with the site conditions and include all incidental work that might occur or be required as part of this project.

1.07 DEFINITIONS

A. The following definitions apply to work of this Section:
1. “Owner”: as used herein, refers to the County of Ventura (beneficial occupant).

2. “Contractor”: refers to the Contractor having the contract with Owner to furnish labor and materials for the execution of work as specified herein.
3. “Architect”: refers to the Kruger Bensen Ziemer Architects, Inc.
4. “Provide”: to furnish and install, complete for safe operation, unless specifically indicated otherwise.
5. “Install”: to erect, mount and connect complete with related accessories.
6. “Refurbish”: to modify as required for like new operation and characteristics, meeting all current code requirements.
7. “Supply”: to purchase, procure, acquire and deliver complete with related accessories.
8. “As required”, “where required”, “as needed”, “if required”, and “if necessary”: repair or replace components to provide like new operation or meet code requirements.
9. “Work”: labor and materials required for proper and complete installation.
10. “Wiring”: raceway, fittings, wire, boxes, and related items.
11. “Concealed”: embedded in masonry or other construction, installed in furred spaces, within double partitions or hung ceilings, in trenches, in crawl spaces or in enclosures.
12. “Exposed”: not installed underground or “concealed” as defined above.
13. “Indicated”, “shown”, or “noted”: as indicated, shown or noted on Drawings or as specified.
14. “Similar” or “equal”: of base bid manufacturer, equal in materials, weight, size, design and efficiency of specified product, conforming to “Acceptable manufacturers.”
15. “Reviewed”, “satisfactory”, “accepted”, or “directed”: as reviewed, satisfactory, accepted or directed, by or to Owner.
16. Where a device or a part of equipment is referred to in the singular number, it is intended that such reference shall apply to as many such devices as are required to complete the installation.

1.08 INSTRUCTIONS TO CONTRACTORS:

A. Bids shall be subject to all the requirements of the contract documents and any other documents issued in connection with this project.

B. Contractor shall identify any operations and features that are unique to their product or practices.

C. If Contractor desires to furnish items differently than specified, Contractor shall submit substitution as an alternate quotation along with bid. Contractor shall supply information in regard to the proposed substitution of components or materials.

D. Contractor shall identify any conflicts or problems/issues with the implementation of this work. In the absence of such identification, Contractor is responsible for existing conditions and modifications to the existing hoistway, machine rooms, elevator cars, etc. pertaining to this work, shall be the responsibility of the Contractor. Modifications to building systems,
   1. i.e. mechanical, structural, and electrical, etc., shall not be made to accommodate Contractor’s equipment.

1.09 HAZARDOUS MATERIALS NOTIFICATION, TRAINING & REQUIREMENTS:

A. If asbestos containing building materials or other hazardous materials are found to be present within the elevator machine rooms and hoistways, moving, drilling, cutting or otherwise disturbing such materials can pose a health risk and should not be attempted by untrained personnel. Contractor shall immediately notify Owner if there is need to disturb such materials as part of the project or if they observe any materials that they suspect contain asbestos or other hazardous materials that are not properly maintained.

B. All technicians working on the project are to have undergone hazardous materials awareness training to learn about adverse health effects, necessary precautions, emergencies, inspections, and maintenance.

C. Should removal or abatement be required, it shall be performed by others and the responsibility of the Owner.

1.10 MATERIALS:

A. All exposed retained metal in the hoistway and on the car tops shall have all rust removed, shall be mechanically and chemically cleaned, followed immediately by the application of common, low-VOC, low-odor, rust-inhibiting coating. Stainless Steel: Type 302 or 304 or 316 complying with ASTM A240, with standard tempers and hardness required for fabrication, strength and durability.

B. Paint: Clean all new exposed metal parts and assemblies of oil, grease, scale, and other foreign matter and factory paint one shop coat of standard rust-resistant primer. After erection, provide one finish coat of low VOC, low odor, and industrial enamel paint. Galvanized metal need not be painted.

1.11 OPERATION PERFORMANCE

A. The control system shall provide smooth acceleration and deceleration with 1/8-inch leveling accuracy at all landings, from no load to full rated load in the elevator, under normal or unloading conditions. The self-leveling shall, within its zone, be entirely automatic and independent of the operating device and shall correct for over travel and under travel. The car shall remain at the landing irrespective of load.

B. The floor-to-floor performance time shall be 15.0 seconds as measured from the start of door close at one floor to ¾ open at the next floor.

C. The door open time shall be 2.5 seconds as measured from start of door open to fully open.

D. The door close time shall be 3.6 seconds as measured from start of door close to fully closed.

E. The door close time shall be based on the Code requirements with a door delay feature.

F. The hall call door dwell time shall be based on the code requirements with a door delay feature. The door delay is the minimum acceptable time from notification that a car is answering a call (lantern and audible signal) until the doors of the car start to close. The minimum acceptable time for doors to remain fully open after answering a hall call shall not be less than 5-seconds. Time shall be calculated by the following equation:
   1. T = D/(1.5 ft/s)
   2. T = Total time in seconds.
   3. D = Distance from a point in the lobby 60-inches directly in front of the hall station to center line of the door opening.

G. Car call door dwell time: The minimum acceptable time for doors to remain fully open after answering a car call shall not be less than 3-seconds, per code. Initial setting shall be 3.5-seconds.

H. The speed of the elevator shall not vary by more than +/- 5% under loading conditions.

I. Differential Door Timing Feature: Provide adjustable timers to vary the time that the doors remain open in response to a car or hall call. The doors shall remain open for 4.0-seconds in response to a car call and 5 to 8-seconds for a hall call. The doors shall remain open as long as passengers are crossing the threshold.

J. Nudging: When doors are prevented from closing for 20-seconds due to failure of the proximity device or obstruction, the doors shall remain open and a buzzer shall sound.

K. Prior to final acceptance and prior to the termination of the maintenance period, the elevators shall be adjusted as required to meet these performance requirements.

1.12 SOUND CONTROL/NOISE AND VIBRATION/RIDE QUALITY

A. Limit overall elevator noise emissions to the building to the following maximum A-weighted sound pressure levels in any mode of operation:
   1. 55-decibels measured 5-feet above the cab floor near center while running at rated speed.
   2. 55-decibels measured 5-feet above the cab floor near center while the doors are opening or closing.
   3. 55-decibels measured in the elevator lobby 10-feet from the elevator doors.

4. All elevator equipment including their supports and fastenings to building, shall be mechanically and electrically isolated from the building structure and main line power feeders to minimize objectionable noise and vibration transmission to car, building structure, or adjacent occupied areas of building.
5. Ride Quality requirements shall include a horizontal acceleration measured inside of the cab during all conditions to not exceed 15 mg peak to peak within the 1-10 MHz range.
6. Vertical acceleration and deceleration shall free of bumps, jerk, and sway, and shall be not less than 3.3 feet (100.58 cm)/sec2 with initial ramp of between 0.5 and 0.75-seconds.
7. Make all necessary modifications or replacement of equipment as necessary prior to final acceptance or warranty expiration to meet the performance requirement. This shall be performed at no additional charge.

1.13 SUBMITTALS

A. Submit the following before beginning fabrication of equipment:
   1. The source of all finishes shall be provided by Ownership. The Contractor shall coordinate procurement of those materials with the Ownership and shall direct any of its subcontractors accordingly. Sourcing of all materials and the intended manufacturer/Contractor shall be submitted for approval.
   2. Shop Drawings: Provide an electronic set of complete, fully dimensioned shop drawings, to scale, in PDF format. Include layouts of pits, overhead, plan view of hoistway, cab, machine room, equipment loads, power and heat data for all equipment and required clearances. Provide detailed signal fixture drawings and cut sheets for all major components (controller, door operator, roller guides, etc.)
   3. Details of hold-to interior dimensions shall be provided. Drawings shall include details of cab interior including plans, and elevations. Fixture details shall be submitted for review. Generic brochures shall be rejected as not job specific. All details are to reflect modification to existing conditions and exact locations on the new materials. Provide hoistway, overhead and pit sections, and plan view of pit and machine room. Include all applicable structural, electrical and mechanical loads for new equipment. Provide manufacturer cut sheets for control system, power unit and door operator.
   4. Design Information: Provide calculations verifying the following:
      a. Adequacy of existing electrical provisions.
      b. Adequacy of retained equipment relative to Code requirements if car weight increased by more than 5%.
      c. Machine room heat emissions in B.T.U.
      d. Adequacy of existing retained elevator machine beams.
      e. Adequacy of existing car platform structure for intended loading.
   5. Samples: Provide three sets of materials and finishes exposed to public view, 6-inch by 6-inch panels or 12-inch lengths as applicable.
   6. Color Charts: Provide three sets of color charts for all paint and car interior, entrance finish selections.
   7. Product Brochures: Provide an electronic submittal in PDF format including of literature on controller, landing system, motor starter, door operator and related door operating equipment, and door detector.

B. Before acceptance of work, submit the following:
   1. Provide an electronic submittal in PDF format of job specific manufacturer’s equipment brochures and service manuals. Assemble manuals in chronological order according to the specification alphanumerical system. Provide in manufacturers standard binders consisting of:
      a. Equipment and components, descriptive literature.
      b. Performance data, model number.
      c. Installation instructions.
      d. Operating instructions.

e. Maintenance and repair instructions.
f. Spare parts lists.
g. Lubrication instructions.
h. Detailed, record and as-built layout drawings.

2. Detailed, simplified, one line, wiring diagrams. Provide one complete set per manual.
3. Diagnostics: Controller and system shall include all necessary on-board diagnostics for performance of routine maintenance and troubleshooting. Contractor shall provide all diagnostic documentation required for troubleshooting and maintaining the elevator system upon completion including a composite listing of the individual settings chosen for variable software parameters stored in the software programs.
4. Layout Drawings: Provide a minimum of two sets of record as-built layout drawings. Drawings shall be prepared in AutoCAD. Provide one (1) complete set of drawings on labeled USB drive.
5. Wiring Diagrams: Provide a minimum of three (3) sets of “as-built” wiring diagrams that include all electrical circuits in the cars, hoistways and machine rooms. Diagrams shall include definition of all nomenclature and symbols. Provide two (2) sets of wiring diagrams in protective binders or in laminated format and one (1) set on labeled USB drive.
6. Keys: Provide six sets of keys for all keyed switches installed as part of this project, including: controller cabinet, fire service, stop switch, service cabinet, inspection and others if provided.
7. Certificate of Warranty in accordance with Specifications.

C. Consultant shall review and return to Contractor all submittals including shop drawings, samples and color charts, where applicable. Consultant shall review all close-out documents, including service manuals, wiring diagrams, letter from structural engineer, keys, etc. and deliver to Owner upon approval.

1.14 QUALITY ASSURANCE:

A. Contractor and Maintenance Qualifications:
1. Be able to show evidence of local installations of similar scope and size with the proposed control system.
2. Directly employ sufficient competent personnel within 100-miles of project to handle modernization and maintenance duties.
3. Modernization work and maintenance duties shall be separately performed by specialized crews and individuals.

B. Quality and Gauges of Materials:
1. New, best of their respective kinds free from defects. Gauges as noted.
a. Materials, equipment of similar application; same manufacturer, except as noted.
b. Entire elevator equipment shall operate without irregularities and quietly by use of high-grade materials, first class workmanship and adjustments.

1.15 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Ship in factory crated sections of a size to permit passage through available space.

B. Obtain approval and schedule delivery of material to meet Owner’s requirements.

C. Storage of equipment and materials shall be coordinated with Owner.

D. Hoisting and Storage: All hoisting operations and storage of equipment and materials shall be coordinated in advance of delivery with Owner.
1. Supply a plan detailing the proposed methods for hoisting of equipment including anticipated roof preparation, hoisting times and durations, traffic control and other special requirements.
2. Supply a proposed location and size of area needed for tools, materials and equipment to be stored.
3. Schedule of anticipated delivery, hoisting and storage dates.

1.16 SEQUENCING AND SCHEDULING

A. Schedule of Operations:
   1. Within thirty (30) days after contract award, the Contractor shall submit a complete plan and schedule of its proposed operations for approval. In preparation of its plan and schedule, the Contractor shall make due allowance for and include the following:
      a. Preparation of equipment and material submittal.
      b. Review of each submittal (four weeks)
      c. Manufacturing lead times for the equipment.
      d. Shipping durations and anticipated delivery dates.
      e. Related work by other trades, whether under the Contractor's or Owner's responsibility.
      f. The schedule shall be updated and resubmitted on a monthly basis.
      g. The schedule may be in the form of a bar chart, graph or other approved system by which are shown predicted sequence, dependencies, durations, starting and completion dates for the various work units or trades involved, together with such other information relative to job progress and completion. If required, the schedule shall be submitted in PDF Format.

B. Interruptions of Building Elevator Service:
   1. All work shall be done with a minimum amount of interference to the operation of the building. The Contractor shall not interrupt the services without the prior written permission of the Owner.
   2. Contractor shall perform as much pre-work as possible, prior to removing the first elevator from service. As a minimum, all new equipment shall be hoisted to the machine room.
   3. The elevator shall be tested and accepted by the Owner. Contractor shall run each elevator on auto-call operation for a minimum of 72 hours without cycling doors and at least 8 hours with cycling doors, before turning the elevator over to the building. During door cycling period, Contractor shall provide personnel in the elevator at all times, preventing the public from entering the elevator.
   4. Work may begin after detailed work schedule has been approved.

1.17 WARRANTY

A. The elevator and associated equipment shall be free of defective material, imperfect work and faulty operation not due to ordinary wear and tear or improper use or care, for a period of three years concurrent with the warranty maintenance from final acceptance after completion of the final elevator. Defective work shall be repaired or replaced at no additional cost to the Owner. Provide Certificate of Warranty with start date effective on the date the Consultant accepts all work, including completion of all punch list items.

1.18 MAINTENANCE SERVICE

A. Interim Maintenance: Submit with base bid a separate monthly price to provide Full Service on the elevators, from the first day of the month following contract award until the first elevator is removed from service for modernization. Coverage shall be in accordance with Vertical Transportation Interim Maintenance Agreement.

B. Construction Maintenance: Submit with base bid a separate monthly price per elevator to provide Full Service from the date the first elevator is removed from service until both elevators are complete and warranty date is established. Coverage shall be in accordance with Vertical Transportation Construction Maintenance Agreement.

C. Warranty Maintenance: Submit with base bid a separate monthly price for three-year maintenance service during warranty period. Maintenance shall commence upon completion and acceptance of all elevator work on the final elevator. Coverage shall be in accordance with Vertical Transportation Warranty Maintenance Agreement.

D. On-Going Maintenance: Submit with base bid a separate monthly price should the maintenance be extended past the three-year period. Coverage shall be in accordance with Vertical Transportation Maintenance Agreement.

E. The Owner reserves the right to accept or reject any or all maintenance terms noted above at any time prior to their commencement date.

1.19 PROTECTION OF PERSONS AND PROPERTY

A. The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work.

B. The Contractor shall take reasonable precautions for the safety of, and shall provide reasonable protection to prevent damage, injury or loss to:
   1. Employees working on the project and other persons who may be affected thereby.
   2. The work, materials, and equipment to be incorporated therein, whether in storage on or off the site, under the care, custody or control of the Contractor or any of his Subcontractors or Sub-Subcontractors.
   3. The property, including but not limited to roofing, walls, ceilings, flooring, furnishings, etc. Contractor shall repair or replace all damaged items. Under no circumstances shall any employees of Contractor or subcontractor employees smoke while on-site. Contractor shall advise all employees and Subcontractors that smoking on roof may void Owner's roofing warranty and Contractor shall be responsible for all costs associated with violation of this requirement.

C. The Contractor shall designate a responsible member of his organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated in writing by the Contractor to the Owner.

D. The Contractor shall comply with all applicable laws, ordinances, rules, regulations and lawful orders of public authority having jurisdiction for the safety of persons, property or to protect them from damage, injury or loss. He shall erect and maintain, as required by existing conditions and progress of the work, all partitions for safety and protection, including posting danger signs, and other warnings against hazards, promulgating safety regulations and notifying Owners and users of adjacent utilities. The Contractor shall restore all damaged building

E. In any emergency affecting the safety of persons or property, the Contractor shall act, at his discretion, to prevent threatened damages, injury or loss.

1.20 PERMITS AND INSPECTION FEES

A. The Contractor shall obtain without cost to the Owner, all permits and certificates as required.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Product of individuals, firms or corporations regularly engaged in modernizing elevators comparable with this contract and in satisfactory operation for a period of not less than five years.

B. Qualified Contractors—or Approved Equal:
   1. Kone Elevator Company
   2. Otis Elevator Company
   3. Schindler Elevator Company
   4. ThyssenKrupp Elevator Company
   5. Mitsubishi Elevator Company

C. Approved Base Bid Control System:
   1. Non-Proprietary Equipment. Alternate for Motion Control Engineering: iControls or approved equal.

2.02 OUTLINE OF EQUIPMENT

A. Library Elevator (All information shall be field verified by Contractor):
1. Elevators Type: Hydraulic Direct Plunger
2. Contract Load, in Pounds: Retain Existing
3. Contract Speed, in FPM: Retain Existing
4. Machine Location: As presently located
5. Power Unit: Provide new
6. Type of Control: Soft Start AC
7. Operation Selective Collective
8. Guide Rails Retain existing; remove all dirt, debris rust; Apply one finish coat of low VOC, low odor, and industrial enamel apply one finish coat of low VOC low odor, industrial enamel paint on non-running surfaces
9. Buffers and Pit Channels Retain existing; remove all debris, rust and dirt;
   a. Apply one finish coat of low VOC, low odor, and industrial enamel apply one finish coat of low VOC low odor, industrial enamel paint on non-running surfaces. Test and make any modifications necessary to pass state tests.
10. Plunger and Cylinder Provide new PVC Casing; new plunger and new cylinder.
11. Roller Guide Assembly Provide new car assemblies and rollers.
12. Traveling Cable Provide new
13. Door Operation Provide new VVVF-AC Closed Loop type; GAL MOVFR or approved equal.
14. Door Detector: Provide new infrared full screen full height of door device with differential timing, nudging and interrupted beam time.
15. Car Platform Check all fastenings, tighten and secure.
   a. Platform: remove rust, dirt and debris and clean. . Apply one finish coat of low VOC, low odor, and industrial enamel paint
16. Cab Enclosure New car doors with textured stainless steel finish; refer to drawings.
   a. Interior Finishes: Refer to drawings.
17. Cab Door Equipment: Provide all new GAL or approved equal door equipment including headers, tracks, rollers, hangers, etc.
18. Cab Sills Retain existing; remove rust, debris and dirt, wire brush, clean and polish. Apply one finish coat of low VOC, low odor, and industrial enamel paint Check and tighten all fastenings.
19. Top of Car Inspection Station: Provide new with light fixture and convenience outlet
20. Hoistway Entrances: Retain existing configuration.
21. Hoistway Entrance
   a. Equipment: All new equipment shall be GAL or approved equal.
   b. New interlocks, door tracks, headers, hanger's rollers and closers.
   c. Any retained equipment: Remove all rust, dirt, debris, wire brush and clean all equipment which is being retained. Apply one finish coat of low VOC, low odor, and industrial enamel paint on all non-running surfaces.
22. Lobby Hoistway Sills & Sill Angles
   a. Retain existing; remove rust, dirt, debris, wire brush and clean. Apply one finish coat of low VOC, low odor, and industrial enamel paint Check and tighten all fastenings
23. Lobby Hoistway Doors & Frames:
      1) Doors: Provide new doors with satin stainless steel finish at all floors.
      2) Frames: Retain existing frames; Apply one finish coat of low VOC, low odor, and industrial enamel paint Check all fastenings and refinish.
24. Car Operating Panel: Provide new main applied car operating panel.
   a. Incorporate a 12" to 15" CEC Elite P.I. into the new applied car operating panel.
25. Hall Fixtures Provide all with new; reuse of existing boxes is acceptable. All fixtures shall be mounted to meet disabled height requirements.
26. Combination Hall Position Indicator and Hall Lanterns:

a. Provide new surface mounted type vandal resistant type with adjustable chimes at all floors for all elevators.

27. Hall Call Stations: Provide new surface mount type with oversized
    1) faceplate and engraved fire exit signs. Provide fully illuminated white vandal resistant buttons and button assemblies to meet CBC requirements.
    2) Provide key switch operation to match existing.
28. Phase 1 Fire Recall Switch: Provide new at main return landing; integrate with hall pushbutton station.
29. Access Switches: Provide new in existing location.
30. Car Blower: Provide new three speed blower.
31. Communication System: Provide new self-dialing vandal resistant push to call two way communication system with recall, tracking and voiceless communication.
32. Under Car Light: Provide new car light under car platform with switch in service cabinet.
33. Special Features: Fire recall operation, emergency power operation, verbal floor and direction annunciation and communication system

2.03 MACHINE ROOM EQUIPMENT

A. Provide equipment to fit in existing machine room space. Any and all costs for re-design of, and revisions to, building spaces and structure due to selection of Contractor, Manufacturer, change to equipment availability, production or selection shall be borne by Contractor.

B. Hydraulic Pump Unit: Retain Existing; check and tighten all fastenings. Adjust motor and shut off valves as required. Test muffler and make necessary adjustment.

C. A pressure switch shall be mounted in line to prevent loss of oil.

D. Controller: Microprocessor-based AC type with unit valve suitable for operation specified and capable of providing smooth, comfortable car acceleration and retardation. Limit the difference in car speed between full load and no load to not more than ±10% of the contract speed in either direction.

E. Controller: Disconnect and completely remove the existing controller and selector for each elevator and replace with a new microprocessor system.
    1. Non-proprietary diagnostic control system from approved manufacturer. Provide NEMA – 1 enclosures and doors arranged with locks or mechanical latches.
    2. All controller components shall be designed to provide the required operation as herein specified.
    3. All assemblies, power supplies, switches, relays and other items shall be securely mounted on a substantial, self-supporting steel frame of angles or channels and shall be totally enclosed with hinged or removable covers in a floor mounted cabinet. Equipment shall not be mounted on any of the covers.
    4. All controller switches and relays shall be magnet operated with contacts of design and material to ensure maximum conductivity, long life and reliable operation without overheating or excessive wear and shall provide a wiping action to prevent sticking due to fusion.
    5. Where time delay relays are used in the circuits, they shall be of an acceptable design that is reliable and consistent, such as condenser timing or electronic timing circuits. No dashpot time relays shall be used.
    6. Each device on all panels shall be properly identified by name, letter, or standard symbol that shall be neatly stencil painted (or otherwise marked), in an indelible and legible manner, on device or panel. Identification markings shall be coordinated with identical markings used on wiring diagrams. The ampere rating shall be marked adjacent to all fuse holders. All spare conductors shall be neatly formed, laced and identified.
    7. Safety switch shall cut off current, automatically apply brake and stop car upon current failure or upon operation of any electrical safety device.
    8. All line voltage (110-volt or above) contact points inside the controller cabinet shall be protected from accidental contact when the doors are open.

9. Controllers shall be designed, tested and certified for Electromagnetic Interference (EMI) immunity in compliance with EN12015.
10. Provide adequate ventilation fans.
11. Provide isolated input with opto-isolation modules.
12. Power Supplies: All power supplies utilized shall be UL recognized. They shall all have short-circuit protection.
13. Frame: All assemblies, power supplies, chassis, switches, relays, and other items shall be securely mounted on a substantial, self-supporting steel frame. The equipment shall be completely enclosed with covers. No equipment is to be mounted on the covers.
14. Wiring: All factory wiring shall utilize UL labeled copper wires. All wiring interconnections shall be neatly routed. All wiring connections to studs of terminals shall be made by means of solder or solderless lugs.
15. Marking: All components shall be clearly and permanently identified adjacent to each device and shall be identical to the wiring diagram.
16. Terminals shall be provided for a future connection to a computerized test system. An adequate number of terminals shall be provided so as to monitor all of the various functions of the elevators. These shall include but not be limited to car positions, running functions up and down, door open and close, hall and car calls, door protective devices, safety circuits, elevator recapture, etc.
17. Printed Circuits and Related Hardware:
18. All solid-state hardware and devices shall have built-in noise suppression devices that provide a level of noise immunity compliant with EN12015.
19. Power supplies shall have noise suppression devices provided.
20. All inputs from external devices (such as pushbuttons) and all outputs to external devices (such as indicators, relays) shall be isolated.
21. The use of relays as input/output devices is not acceptable.
22. A separate regulated power supply shall be used for each computer chassis.
23. The control circuits shall be so designed so that one side of the power supply is grounded to provide for testing.
24. Under no circumstances shall the safety circuits be affected by accidental grounding `of any part of the system.
25. In the event of a power failure or interruption, the system shall be designed so that it will start properly when power is returned.
26. System memory shall be provided so that data shall not be lost in the event of a power failure or disturbance.

F. Auxiliary Disconnects shall be provided where the equipment is not in the line of sight of the Main Line Disconnects. These are the responsibility of the Contractor.

G. Diagnostic Tools: Subcontractor shall provide all diagnostic tools and documentation required for the adjustment, troubleshooting, and reprogramming of the elevator system upon completion, including:
   1. Passwords or identification codes required to gain access to each software program in order to perform diagnostics or program changes.
   2. A composite listing of the individual settings chosen for variable software parameters stored in the software programs.
   3. A complete dictionary of fault codes with recommended steps for resolution, in sequence from highest to lowest probable cause.
   4. Provide one project laptop capable of and configured for displaying elevator status, hoistway position and direction, door position and direction, approximate percentage loading, existing issue and direction of hall and car calls and any current or recent faults for troubleshooting the equipment. It is the intent that the laptop be left on-site for diagnostic use in each control room.

H. Provide vibration sound isolation to eliminate structure-borne sound being transmitted to the building. Vibration isolators shall be equivalent to Mason Industries Model RBA or SWM waffle

pad with neoprene grommet and washer isolated bolt attachment. Select isolators to compress a minimum of 0.1-inches under load. Seismic Protective Features: Provide per the Code requirements.

2.04 SYSTEM OPERATION AND FEATURES

A. Selective Collective Operation – Library Elevator:
   1. Controls shall be a microprocessor-based system.
   2. Registration of car call button shall cause the car to start. The car shall respond to its own car calls and corridor calls, in the direction of travel, and in order in which the landings are reached.
   3. The car shall remain at the arrival floor for an adjustable interval to permit passenger transfer. Doors shall close after a predetermined interval, unless the car is parked at the main floor, after opening unless closing is interrupted by car door reversal device or door open button in car.
   4. Delayed Car Protection: The system shall automatically disassociate a car from the Duplex system in the event the car is delayed for a predetermined time. The car shall be automatically restored to the Duplex System when the cause of the delay has been eliminated.
   5. Programmed Door Control: Separate adjustable times shall be provided for each car to establish minimum passenger transfer time for car stops, intermediate floor hall call stops and lobby floor stops. All timing shall be computerized to coincide with traffic demands.
   6. Designated Parking: The system shall provide for cars to park as designated by the Duplex system or park at its last call.
   7. Provisions shall be made in the dispatch computer so that the elevator system dispatching can be modified at a future time. The system shall be so designed that the modifications to the software shall be all that is required to revise the dispatching. It shall be further designed so that there will be minimum shut down time should changes be required.

B. Independent Service: Provide controls to remove elevator from normal operation and provide control of the elevator from car buttons only. Car shall travel at contract speed and shall not respond to corridor calls.

C. Car Top Inspection Operation: Provide new per Code requirements.

D. Hydraulic Elevator Low Oil Control: Should the elevator determine a low oil condition, the elevator shall be automatically retuned to the bottom floor and park until the condition is remedied.

E. Emergency Recall Operation (Fire Service): Provide operation and equipment per Code requirements. Contractor shall provide relays, wiring, and terminal strips to receive signals from the fire alarm system.

F. Hydraulic Elevator Battery Lowering: In the event of a power loss, the elevator shall return to the lowest landing and the doors shall automatically open. The elevator shall then automatically deactivate. The standby power source shall be a 12 volt DC battery unit with solid state charger and testing. Battery to be rechargeable with a ten year life. Upon restoration of normal power, the elevator shall automatically resume its operation.

G. Differential Door Timing Feature: Provide adjustable timers to vary the time that the doors remain open in response to a car or hall call. The doors shall remain open for 3.5-seconds in response to a car call and 5 to 8-seconds for a hall call.

H. Nudging: When doors are prevented from closing for 20-seconds due to failure of the proximity device or obstruction, the doors shall close at reduced speed and a buzzer shall sound.

I. Fan and Light Output Timer: Provide an adjustable timer (Range 5 to 10-minutes) that when activated will turn off the fan and light within the car. The time will start when the car becomes inactive.

J. Ascending Car Over-speed and Unintended Car Movement Protection: Provide future operation to prevent the elevator from striking the hoistway overhead and prevent unintended car movement per code.

K. Seismic Operation: Provide operation and equipment per Code.

2.05 SECURITY SYSTEM:

A. Interface with building security systems shall be required.

B. Cameras: Provisions Only; All Elevators:
   1. Provisions for future camera provisions shall be installed for all elevators. These provisions shall include wiring and mounting brackets.
   2. One (1) pair wires shall be provided and installed per elevator cab in traveler cable. Shielding shall not be required. Must be separated from 480 v power sources.
   3. Wire shall be terminated in machine room with connection point for MCM outside of machine room. MTM to distribute from machine room as needed

2.06 SEISMIC

A. Provide a minimum of one seismic switch for each single or group of elevators. A dual axis seismic switch shall activate per code requirements in both vertical and horizontal directions.

2.07 HOISTWAY EQUIPMENT

A. Guide Rails and Brackets:
   1. Retain existing car guide rail brackets.
   2. Thoroughly clean all guide rails free of grease, oil and other foreign substances, file and remove all rough edges and surfaces. Realign, and tighten bracket bolts and guide rail clips as required for smooth and quiet operation of car. Provide additional rail brackets or backing as required by code or as necessary to meet ride quality standards.

B. Buffers:
   1. Existing car spring buffers shall be refurbished. Clean thoroughly, flush and refill units with new oil.
   2. Provide inspection ladder and under car platform, where required by code.
   3. Apply one finish coat of low VOC, low odor, and industrial enamel paint on the exterior of buffer and stencil number the car number on each buffer.
   4. Buffers shall be load tested and tagged prior to turnover.

C. Hydraulic Jack Assembly:
   1. Cylinder: Provide a seamless steel pipe and design head to receive unit type packing.
   2. Provide water tight PVC casing.
   3. Plunger: Provide a polished seamless steel pipe. The lengths shall not exceed 24’- 0”
   4. Provide over speed valves and shut off valve adjacent to the jack unit.

D. Well Hole and Casing:
   1. Reuse the existing jack hole. Provide all necessary drilling and expand hole diameter as required for the new jack unit. Remove existing jack and oil. Removal of all spoils shall be the elevator contractor’s responsibility.
   2. Drilling rig and attachments, access to the building, and any associated drilling costs shall be included. A rock clause shall not be acceptable.
   3. Install a PVC watertight casing which shall be capable of accommodating the new jack unit and additional fluid capacity.
   4. Seal well opening at the pit floor with hydraulic quick setting cement.
   5. Provide vision and access ports in the PVC.

E. Pit Stop Switch: Provide new red colored stop switches to meet code requirements.

F. Alarm Bell: Provide car top alarm bell and second alarm bell inside hoistway at lobby level.

G. Final Terminal Stopping Devices:

1. Final Device Operation: New final limit switches located at top and bottom of the hoistway shall be arranged to automatically stop the car within the predetermined over travel limits, independently of all other devices.
2. Rollers: Switches shall be equipped with engaging arms provided with polyurethane-tired rollers for engagement with cams.

H. Electrical Wiring: Terminal connections for all conductors at equipment panels, center of hoistway and on elevator car shall be made with terminal blocks or studs having identifying numbers. All conductor connections shall be made with terminal eyelets of the solderless type.
1. Conductors: Provide copper insulated wiring with flame retarding and moisture resisting outer cover. Install in galvanized metal wireways and raceways. Conductors from shaft riser to door interlocks shall be SF-2 type or equal, maximum operating temperature 392-degrees F. All terminations shall be insulated to maintain integrity of wiring. Flexible conduit may be used for short connections.
2. Traveling Cables: UL- labeled fire and moisture resistant outer braid and steel supporting strand. Provide a minimum of eight (8) pairs of shielded communication wires and car lighting circuits.
3. Provide wiring as required for fire alarm initiating devices, emergency two-way communication, and firefighter's phone jacks, paging speaker's intercom, announcement speakers and card reader interface.
4. Remote Wiring: Provide wiring between machine room, hoistway and remote locations of guard, security, life safety and fire control panels.
5. Work Light and Plug Receptacles: Provide on top and bottom of car with lamp guards.
6. Stop Switches: Provide Code required stop switches in the pit, near the governor access door, in the machinery spaces of machine room less elevators and where split level machine rooms occur.
7. Provide NEMA4 weatherproof electrical equipment and wiring identified for use in wet locations when any electrical devices are located less than four (4) feet above the pit floor.
8. Note: Conduits or other wiring shall not be exposed in the lobby or other occupied parts of the building.

I. Raceway: Remove all rust, wire brush, clean and apply one finish coat of low VOC, low odor, and industrial enamel paint. Retain existing raceway where suitable and replace sections as necessary for new equipment. Modify lower section, where required, to accommodate proper pit ladder access.

2.08 DOORS AND ENTRANCE EQUIPMENT

A. Retained Equipment: Remove all rust, dirt, debris; clean all surfaces on the hoistway and lobby side. Apply one finish coat of low VOC, low odor, and industrial enamel paint on all non-running surfaces.

B. Frames: Retain existing entrance frames. Remove all rust, debris and dirt from face and back side of frames. Clean both hoistway and lobby side of frames. Clad existing frames with satin stainless steel as detailed on the drawings.

C. Provide new rubber door strike astragals.

D. Remove existing and provide new Braille plates centered at a height of 60-inches above the floor, mounted at each entrance side jamb. Match design of car Braille plates. Provide epoxy adhesively mounted plates; no rivets or visible fasteners. Braille and Designation plates shall have white characters with black background at typical floors. Plates shall be manufactured by SCS, Vison Mark or Entrada; cast design.

E. Sills and Sill Angles: Reuse existing; check and tighten all fastenings.

F. Struts: Reuse existing and clean thoroughly. Check and tighten all fastenings.

G. Header: Provide new.

H. Dust Covers: Reuse existing. Align, adequately reinforce and secure as required. Replace any missing covers or fasteners. Check and tighten all fastenings.

I. Fascia: Reuse existing and clean thoroughly. Align, adequately reinforce and secure as necessary to prevent contact with the car. Replace any missing fascia and fasteners. Check and tighten all fastenings. Paint floor number on fascia.

J. Door Panels:
   1. Stencil paint 4 inch (101.6 mm) high floor numbers on the back of each landing door panel.
   2. Library Elevator at all floors:
      a. Provide new 14 gauge panels with a satin stainless steel finish. Provide rubber astragals on leading edge. Each door panel shall have two gibs which shall remain in the sill the entire length of door travel. Any cladding shall wrap around the trailing edge of the door a minimum of ½"
      b. Provide 14 gauge sight guards with finish to match doors.

K. Door Hangers: Provide new removable two-point suspension type with provisions for vertical and lateral adjustments. Sheaves shall be 2 ½-inch diameter with sealed or roller bearings.

L. Door Tracks: Provide new removable steel tracks with smooth roller contact surface.

M. Door Closers: Spring, spirator, or jamb/strut mounted counterweight type. Design and adjust to ensure smooth, quiet mechanical close of doors.

N. Interlocks: Provide new interlocks and door release roller assembly at each entrance. Where door release assembly is replaced with new design, roller assembly shall be mounted to an 8-inch by 6-inch (10-gauge) reinforcement plate, properly screwed to the back of each landing door. Reinforcement plate shall be equipped with two (2) ¼-20 by 1- inch long self-clinching zinc studs designed specifically for door release roller assembly attachment. Where new interlock design is provided, the interlock shall be the same make as the door operator.

2.09 CAR EQUIPMENT

A. All existing equipment shall have all rust, dirt and debris removed, wire brushed, cleaned and apply one finish coat of low VOC, low odor, and industrial enamel paint.

B. Platform: Reuse existing platform. Balance in order to distribute, as evenly as possible, the pressure of the individual guides on the guide rails surfaces. Tighten fasteners and clean. Modify underside as required for code compliance.

C. Car Frame:
   1. Retain and refurbish existing car frame. Remove rust, wire brushed, cleaned and apply one finish coat of low VOC, low odor, and industrial enamel paint.
   2. Square and adjust frame within guide rails in order to center, as evenly as possible, between the guide rail surfaces. Tighten fasteners and clean.
   3. Stencil paint 4" high car number on crosshead.

D. Under Car Lighting: Provide new incandescent light fixture with bulb guard in NEMA 4 watertight and weather resistant box. Provide switch in service cabinet to turn light on/off.

E. Platform:
   1. Retain and refurbish existing platform.
   2. Balance in order to distribute, as evenly as possible, the pressure of the individual guides on the guide rail surfaces. Tighten fasteners and clean.
   3. Provide new rubber platform isolation pads.
   4. Repair or replace any missing or damaged brace or support angles.

F. Test at full load and full speed at the end of the equipment modernization. Replace all defective components or devices that do not function properly, including new safety actuating ropes as required.

G. Toe Guard: Provide new, paint with one coat of black enamel.

H. Roller Guides: Provide new roller type guides to provide smooth and quiet ride free of rumbles, bumps, vibrations, and excessive sway. Guides shall consist of three or more adjustable spring mounted rollers per guide assembly (3 1/2-inch minimum diameter) to maintain rail contact and

include adjustable stops. Rollers shall be constructed of neoprene or other similar sound deadening material. Rollers shall have high memory characteristics, enabling the rollers to quickly regain their round shape after an elevator sits still overnight or for a moderate period of time. Provide adapter plates and mounting hardware as necessary.

I. Door Hangers: Provide new removable two-point suspension type with provisions for vertical and lateral adjustments. Sheaves shall be 2 ½-inch diameter with sealed or roller bearings. Hangers shall be galvanized metal or treated with 3 coats of Rustoleum.

J. Door Tracks: Removable steel tracks with smooth roller contact surface.

K. Door Protection: Infrared detector: Provide a door proximity edge that projects an infrared curtain of light guarding the door opening. Unit shall extend the height of the door panel. Arrange to reopen doors if one beam of the curtain is penetrated. Unit shall have Transmitters and Receivers spaced at a minimum distance to provide the maximum amount of protection within the height of the doorway. Systems which have the availability to turn off or on individual zones within the curtain will not be allowed. Door Detector shall extend the entire height of the door panel.

L. Door Operator: Provide new VVVF-AC, high speed, closed-loop door operator to automatically open and close the car and hoistway doors. The doors shall be capable of smooth and quiet operation without slam or shock.
   1. Opening speed shall not be less than 3.0-f.p.s. with reversal in no more than 2-1/2-inches.
   2. An auxiliary-closing device shall automatically close hoistway doors if car leaves the landing zone.
   3. In case of a power interruption, it shall be possible to manually operate car and hoistway doors from inside the cab.

M. Door Restrictor: Provide new mechanical zone lock. Electronic door restrictor shall not be allowed.

N. Car Door Contact: Electrical contact shall prevent the operation of the elevator by normal operating devices unless car doors are closed or within tolerances allowed by Code.

O. Emergency Exit Contact: Provide electrical contact to shut-off power to the elevator if emergency exit is open.

P. Car Top Service Guardrail: Provide a 42-inch high railing on the car top with intermediate rail, toe board and stationary posts, where required by Code.

2.10 CAR ENCLOSURE

A. All retained metal shall have the rust, dirt, and debris removed, wire brushed and cleaned; Apply one finish coat of low VOC, low odor, and industrial enamel paint. If removal of rust compromises the integrity of the equipment, the Contractor shall indicate as such with their bid.

B. Library Elevator:
   1. An approved company shall manufacture car enclosure. Interior finishes as manufactured by Forms + Surfaces, City Lift, Sterling Corporation or approved equal. Provide the following features:
   2. General: The enclosure shall be adequately reinforced and ventilated to meet Code requirements. Weigh all interiors and verify weight of new interiors is per code and manufacturers weight requirements. Provide verification of weights prior to ordering any material. Check and tighten all fastenings. Confirm the structural integrity of the cab shell and platform.
   3. Confirm the structural integrity of the cab shell and platform. Repair platform and remove all rust. Check for termites and any deterioration. Replace platform if necessary. If platform is to be retained check and tighten all fastening. Broken welds on the floor support braces shall be re-welded or replaced. Reinforce the existing platform as required. The Contractor shall survey the sub floor to ensure it is free of deterioration and rust. The

broken welds on the floor support braces underneath the floor shall be either replaced or repaired.

4. Shell: Arrange shell to accept interior panels as specified. Check and tighten all fastenings. Provide one coat of paint on the interior.
5. Refer to attached drawings for all new finishes.
6. Canopy: Check and tighten all fastenings. Modify canopy for light fixtures. Lighting fixtures that uniformly distribute not less than foot-candles of light at handrail height as required by Code. Provide clear and easily accessible access to the emergency exit per Code requirements.
7. Drop Ceiling and Lighting: Provide new EPCO Flexi light emergency cab lighting system, capable of re-lighting two normal down-light fixtures. Emergency light transformer and fixture to be mounted in a water tight/weather proof enclosure.
8. Floor Covering Provide new as shown on the drawings.
9. Transom, Front Return Panels and Entrance Columns: Provide as detailed on the drawings.
10. Car Door Panels: Door panels shall be 14-gauge hollow metal flush door construction, furniture steel. Provide reinforcement by formed vertical sections running full height of door. Doors shall be provided with two removable gibs with fire tabs, located at the leading and trailing edge of the door panel. Finish shall be textured stainless steel. There shall be no visible exposed or protruding fasteners.
11. Ventilation: Three-speed type AA exhaust blower mounted to car canopy on isolated rubber grommets.

2.11 SIGNALS AND FIXTURES

A. All new fixtures shall be provided.

B. Car Operating Panel

1. Provide new applied type main car operating panel in compliance with applicable Code.
   a. Car Operating Panel: Provide new illuminating stainless steel vandal resistant pushbuttons or approved equal product. Faceplate shall have Satin stainless steel finish. Faceplate shall have continuous hinge with three point latching.
   b. Provide a keyed stop switch and alarm bell button, door open and door close buttons. All floor pushbuttons shall be located no higher than 48- inches above the car floor, the keyed in car stop switch and alarm button shall be located no lower than 35-inches above finished floor height. Provide fire service cabinet, phase 2 switch, fire jewel, call cancel button, emergency light fixture, and voice annunciation grill and flush mounted speaker grill for the Hands-Free telephone.
   c. Braille/Arabic designations shall be identified by a minimum of 5/8-inch Arabic numeral, standard alphabet character, or standard symbol immediately to the left of the control button. Braille shall be located immediately below the numeral, character or symbol. Controls and emergency equipment shall be identified by raised symbols, including but not limited to, door open, door close, alarm bell, emergency stop and telephone. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation. Braille and Arabic designations shall be flush with inconspicuous mechanical mounting. The plaques shall have raised white characters on a black background. Provide cast Oval Surround style Braille plates as provided by Entrada, Vison Mark or SCS.
   d. Provide a lockable service cabinet with concealed hinges. Cabinet door shall be flush with the faceplate with hairline joints.
      1) Cabinet shall contain the following toggle type controls:
         (a) Light toggle switch.
         (b) Three speed fan switch.
         (c) Inspection keyed switch.
         (d) Independent service toggle switch.
         (e) Emergency Light test button

(f) Duplex 120 volt, A.C. GFCI convenience outlet.
(g) Light switch for under car platform light.

e. Engrave the following; the font shall be as directed by architect and code:
1) Elevator Number. Minimum ½-inch high lettering.
2) Elevator Capacity below Elevator Number.
3) Building Name and Address.
4) Fire Instruction signage.
5) All Code Required Signage/Verbiage Shall be engraved on the new car operating panel.

f. Floor Annunciator: Provide new digitized voice annunciator providing both male and female voices in a system capable of up to 5-minutes of speech. Provide concealed speaker. Messages shall include the following announcements:
1) Floor number and direction of travel.
2) Notice of doors closing prior to nudging operation.
3) Notice of car on independent service.
4) Emergency operation announcements:
5) Firefighter's Service, "Elevator returning to lobby."

C. Car Position Indicator: Provide new segmented digital readout type with 2-inch high (minimum) indications at upper section of car operating panel. Indicator shall provide car position and direction of travel.

D. Fixture Requirements: Provide new faceplates constructed of Satin brushed stainless steel at all floors, minimum thickness 1/8-inch. All edges shall be relieved. All hall fixtures to have concealed fasteners. Wherever feasible, reuse existing electrical boxes; otherwise, perform all required cutting and patching. Extend faceplates as required to cover holes left by removal of existing fixture.

E. Hall Pushbutton Station: Provide a single riser for each elevator. Station shall include flush mounted satin stainless steel faceplate. Extend faceplates as required to cover holes left by removal of existing fixture. Centerline of riser to be at 3-feet-6-inches above the finished floor. Buttons shall have a minimum dimension of 3/4-inch, be raised 1/8-inch plus or minus 1/32-inch above the surrounding surface, and have a detectable mechanical motion. A minimum clear space of 3/8-inch separation shall be provided. Button design shall be vandal resistant fully illuminated white Provide spanner type security fasteners.

F. Fire Key Switch, Fire Sign and In Case of Fire Sign:
1. Locate the fire key switch with the hall pushbutton at the main return landing.
2. Provide Code required pictograph Fire signs incorporated with the hall buttons, at all floors. Provide 3-position Code required Phase I key switch and operational instructions engraved minimum 1/8-inch high on the faceplate at the main return floor. In Case of Fire signs minimum 1/2-inch high shall be integral within the faceplate, at all floors. Faceplate edges shall be relieved. Finish shall be stainless steel No. 4 brushed finish. Backfill for engraving shall be epoxy filled. Integral signs shall be as follows:
a. Fire Signs. Minimum 1/2-inch high lettering.
b. Fire Operational Instructions. Minimum 1/8-inch high lettering.
3. Provide spanner type security fasteners. Finish matching faceplate.

G. Hoistway Access Switch: Mount in existing location and reuse existing electrical boxes; otherwise, coordinate all required cutting and patching. Extend faceplates as required to cover holes left by removal of existing fixture.

H. Combination Hall Position/Hall Lanterns Provide new digital position indicators with vandal resistant arrows in an integral fixture. Provide with stainless steel faceplate in locations where presently existing. Extend faceplates as required to cover holes left by removal of existing fixture. Provide arrow shaped up and down lanterns with audible signals at each entrance per architectural drawings. The visual signal for each direction, minimum 2 ½- inches by 2 ½- inches, shall be visible from the proximity of the hall station. Indicators shall have audible

signals consisting of voice annunciation and volume adjustable chimes that sound once for the up direction and twice for the down direction of travel. Extend faceplates as required to cover holes left by removal of existing fixture.

2.12 COMMUNICATION AND SECURITY SYSTEMS

A. Telephone System: Provide automatic dial Hands Free telephone station located in the car station. A button shall suitably identify activation of auto dialer for the visually impaired. Speaker shall be mounted without faceplate or visible fasteners and located either behind the control station or within the telephone box. Communication shall be capable of being heard from any location within the car enclosure. Provide a means to communicate to each car individually from telephone unit at the elevator control panel, in compliance with ASME A17.1, rule 2.27.1.1.4.
   1. Provide a telephone symbol minimum 2-inch high, and raised 1/32-inch with Braille indications adjacent to a separate activation button mounted on the control panel.
   2. Provide engraved emergency instructions above the activation button. Instructions shall read: TO USE EMERGENCY TELEPHONE, PRESS BUTTON BELOW. DIALING WILL OCCUR AUTOMATICALLY. Identical instructions in Braille shall be provide below the engraved instructions.
   3. Provide a visual indication, approximately ¾-inch in diameter, or a jewel that illuminates once a call has been received. Instructions under the visual indicator or within the lighted jewel shall read: ASSISTANCE IS ON THE WAY.

B. Provide wiring from car to telephone terminal box in elevator machine room.

C. Mount fire alarm speaker on each car top and run required wiring from speaker to life safety terminal box in machine room. Speakers to be provided by fire alarm contractor.

D. Mount security camera in each elevator cab and run required wiring from car top junction box to security camera terminal box in machine room. Security cameras to be provided by Owner.

PART 3 - EXECUTION

3.01 EXAMINATION OF EXISTING BUILDING AND CONTRACT DOCUMENTS

A. Contractor shall carefully examine all existing building conditions and be informed as to facilities for delivery of materials and equipment, floor loading limitations, and be familiar with difficulties that may be encountered in completing execution of all work, prior to bid.

B. Contractor will be held to have examined all specifications and all other data pertaining to work.

C. The Owner shall bear no responsibility for any incomplete or missing wiring diagrams or other data that may be needed to adapt the new equipment to the existing equipment. Obtaining such information from other sources is the Contractor’s responsibility.

D. No consideration or allowance will be granted for failure to visit site, or for alleged misunderstanding of materials to be furnished, or work to be done, it being understood that tender of proposal carries with it agreement to all items and conditions referred to herein.

3.02 MAJOR ALTERATION - INCREASE IN DEAD WEIGHT

A. The Contractor is required to design all changes to not exceed a 5% increase in the original deadweight of the car enclosure, plus rated capacity. Should the total car weight be exceeded, Contractor shall be responsible for all code required changes. Documentation shall be furnished to the enforcing code authorities verifying the results.

3.03 FIELD QUALITY CONTROL

A. Tests:
   1. Perform as required by code, and authorities having jurisdiction.
   2. Provide labor, material, equipment and connections.
   3. Repair or replace defective work as required.
   4. Pay for restoring or replacing damaged work due to tests.

B. Final Inspection: When all work is completed, and tested, notify the Owner in writing that the elevator is ready for final inspection and acceptance test. A testing and inspection date shall then be arranged. The proper operation of every part of the elevator system and compliance with contract requirements of the code shall be demonstrated to the Owner. Furnish all test instruments, weights, and materials, required at the time of final inspection. The following tests shall be made on each elevator at the time of final inspection:
   1. Test Period: The elevator shall be subjected to a test for a period of one hour continuous run, with full specified load in the car. During the test run, the car shall be stopped at all floors in both directions of travel for a standing period of 10- seconds per floor.
   2. Speed Load Tests: The actual speed of the elevator car shall be determined in both directions of travel with full contract load and with no load in the elevator car. Speed shall be determined by a tachometer. The actual measured speed of elevator car with full load shall be within 5% of rated speed. The maximum difference in actual measured speeds obtained under the various conditions outlined between the UP and the DOWN directions shall be checked.
   3. Floor-to-floor times with no load in the car, balanced load in the car and full load in the car shall be checked.
   4. Car Leveling Tests: Elevator car leveling devices shall be tested for accuracy of landing at all floors with no load in the car, balanced load, and full load, in both directions of travel. Accuracy of floor landing (plus or minus 1/8-inch) shall be determined both before and after the full-load run test.
   5. Final System Tests for Smoke Detection/Fire Elevator Recall: After work is completed, conduct a final test of entire system. Perform testing “after hours” unless normal business hours testing is authorized by Owner. Submit results on approved test report forms.
   6. Re-inspection: If any equipment is found to be damaged or defective, or if the performance of the elevator does not conform to the requirements of the contract specifications or the Safety Code, no approval or acceptance of the elevators shall be issued until all defects have been corrected. When the repairs and adjustments have been completed and the discrepancies corrected the Owner shall be notified and the elevator shall be re-inspected. Rejected elevators shall not be used until they have been re-inspected and approved.

3.04 ADJUSTING, CLEANING, LUBRICATION AND PAINTING

A. In order to maintain cleanliness throughout the project, Contractor shall thoroughly clean all hoistways, car tops, pits and landing sills free of dirt, grease, oil and debris, prior to disabling the first elevator from service for modernization.

B. Perform the following work prior to final testing and acceptance:
   1. Adjust all equipment for optimum performance, including controllers, motors, motor drive, landing systems, hoistway switches, door operating equipment and safety equipment to achieve the required performance levels.
   2. Thoroughly clean all equipment and equipment areas free of all dust, dirt, debris and excessive oil and grease.
   3. Lubricate all equipment in accordance with manufacturer’s guidelines.
   4. Patch and paint exposed work soiled or damaged during installation. Repair to match adjoining work prior final acceptance.
   5. Clean and paint the following equipment and areas: Hoist machine, machine room floor, car top, buffers and pit floor.

3.05 INSTRUCTIONS

A. Upon completion of all work, the Contractor shall provide an instruction period. Instructions shall be given by competent supervisory personnel and shall apply to actual field conditions. The instructions shall cover, but shall not be limited to the following:
   1. Operation of elevators under emergency conditions, maintenance, adjustment, troubleshooting and diagnostic procedures.
   2. Operation and maintenance of smoke detectors and elevator fire recall system.
   3. Operation of elevator communication, door reversal device, etc.

END OF SECTION

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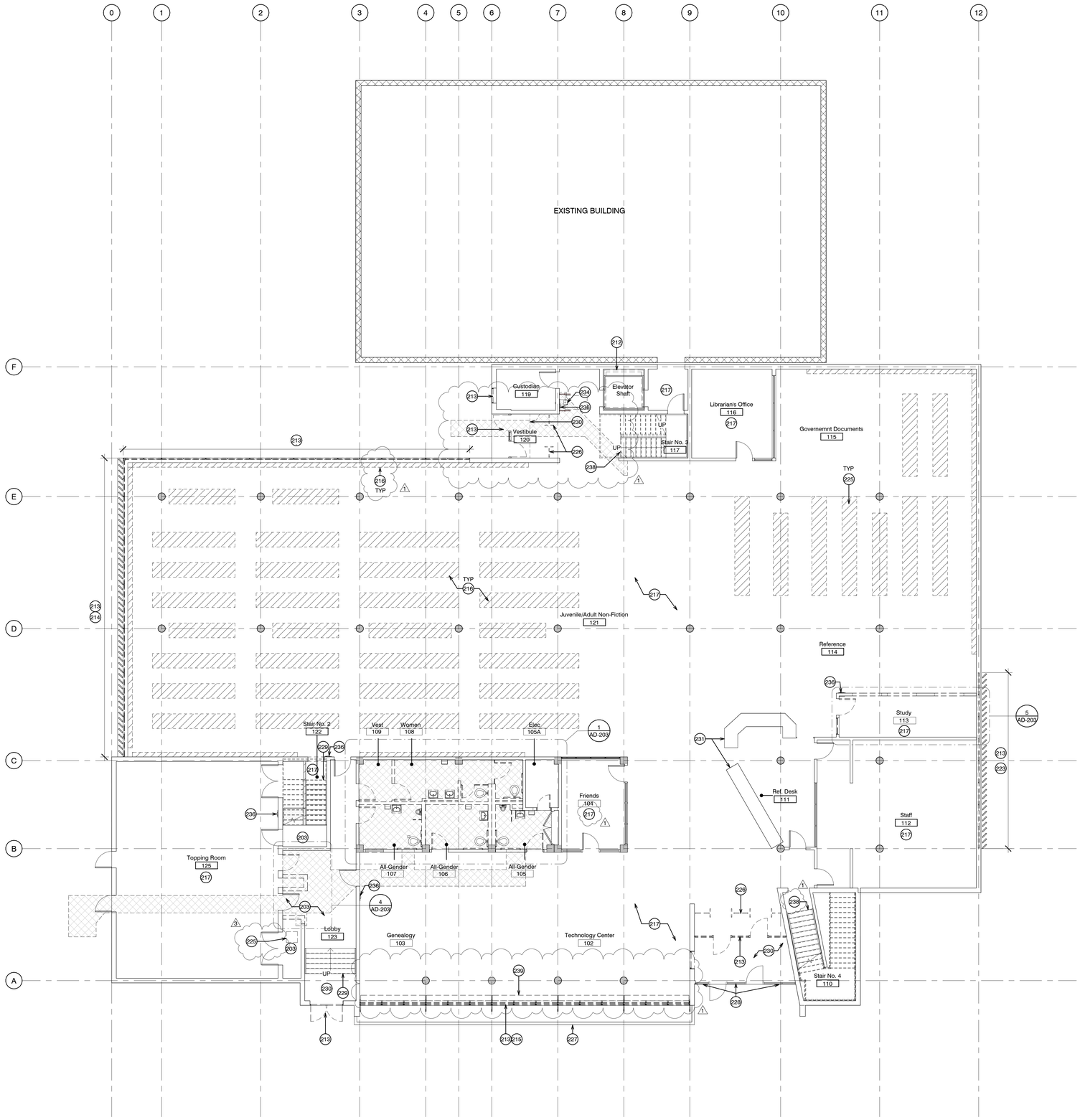


1 First Floor Plan - Demolition
SCALE: 1/8" = 1'-0"

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	CAREFULLY 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 & LINOLEUM DOWN TO CONCRETE SUBSTRATE
223	REMOVE, CLEAN, REFURBISH, AND RE-INSTALL (E) VERTICAL LOUVERS
225	REMOVE AND REPLACE (E) ROOF HATCH AND ACCESS LADDER WITH (N)
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.

Addendum No. 1

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

PERMIT NO	BP25-02229	
NO	REVISION	DATE
1	Owner Changes	08/11/25
2	Plan Review Corrections	09/08/25
3	Owner Changes	12/09/25

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

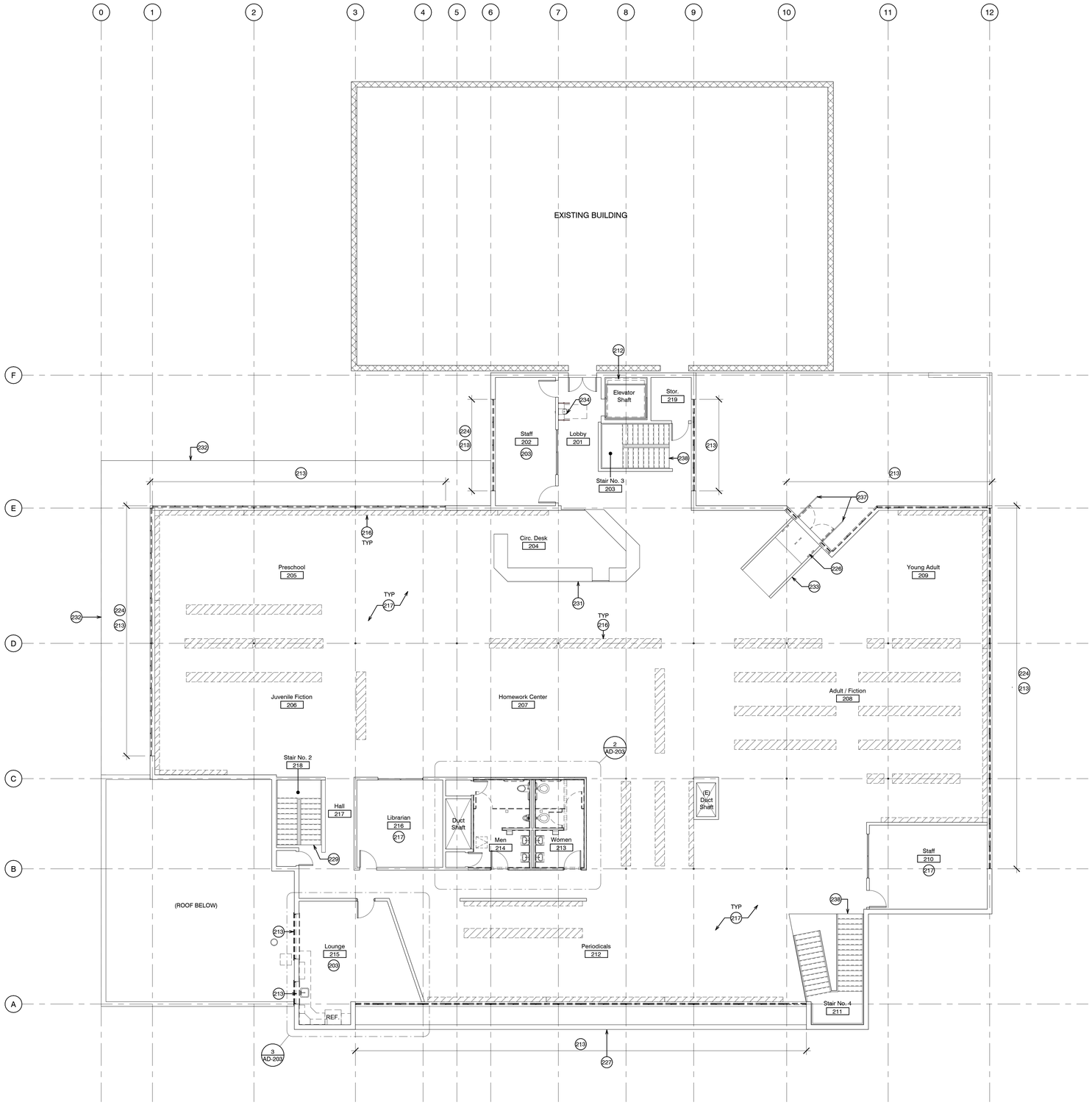
COUNTY SPEC NUMBER	CP26-12
COUNTY PROJECT NUMBER	P6T24008
COUNTY DWG NO	SHEET ___ OF ___

SHEET TITLE

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 & LINOLEUM DOWN TO CONCRETE SUBSTRATE
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.

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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.

Addendum No. 1

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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
1	Owner Changes	08/11/25
2	Plan Review Corrections	09/08/25
3	Owner Changes	12/09/25

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
DEMO SECOND FLOOR PLAN

SHEET NO
AD-202

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
- REMOVE (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

Addendum No. 1

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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	DATE
24004	07/11/2025

PROJECT TITLE AND ADDRESS

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VENTURA, CA 93001

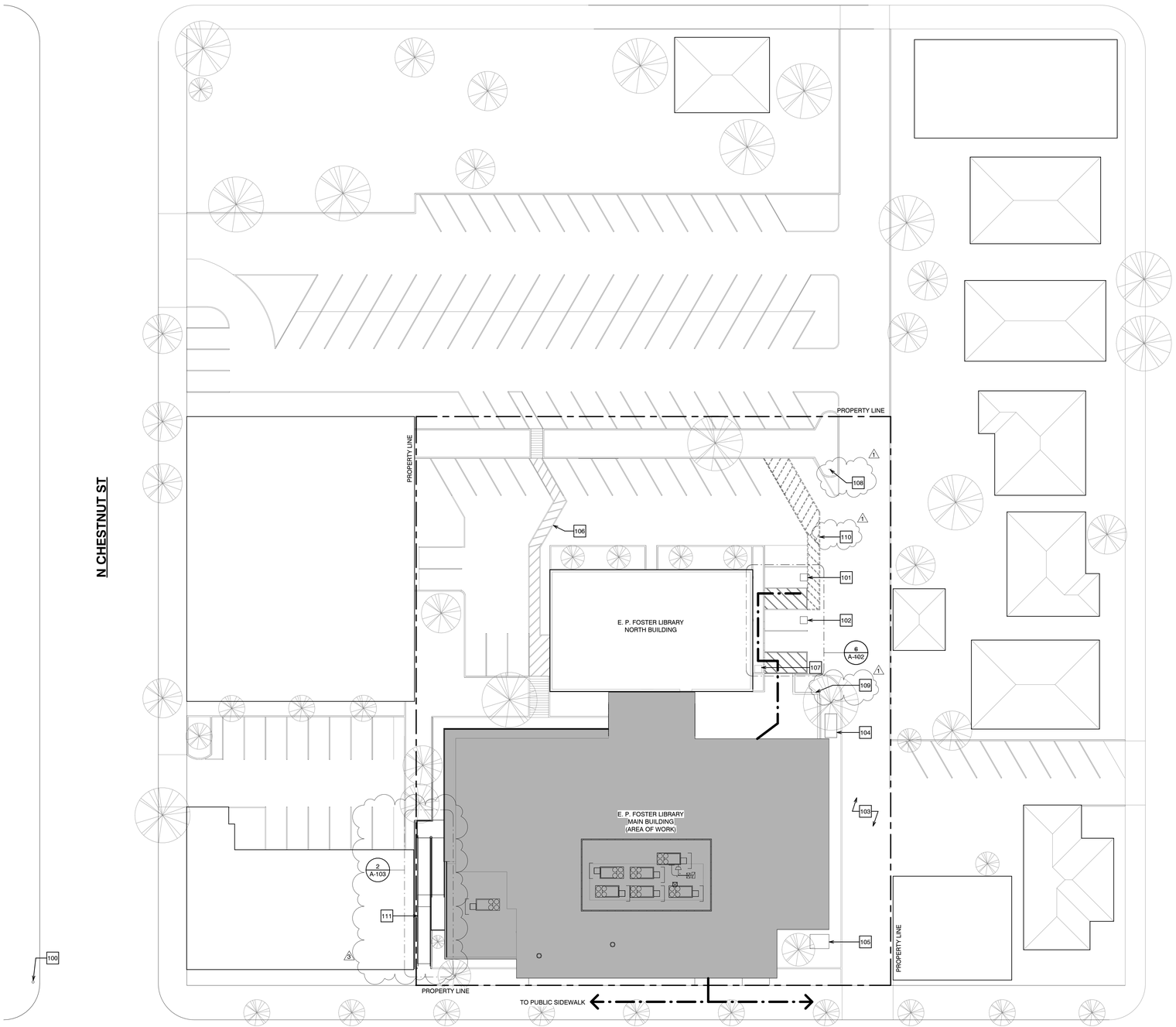
COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

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

SHEET TITLE
DEMO RCP - FIRST FLOOR

SHEET NO
AD-206



1 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
111	(N) ACCESSIBLE RAMP TO TOPPING ROOM

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" WIDE 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 PROJECTS 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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JONATHAN D LEE AIA
PROJECT MANAGER

PROFESSIONAL SEALS

PERMIT APPROVAL STAMP

PERMIT NO BP25-02229

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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

651 E MAIN ST,
VENTURA, CA 93001

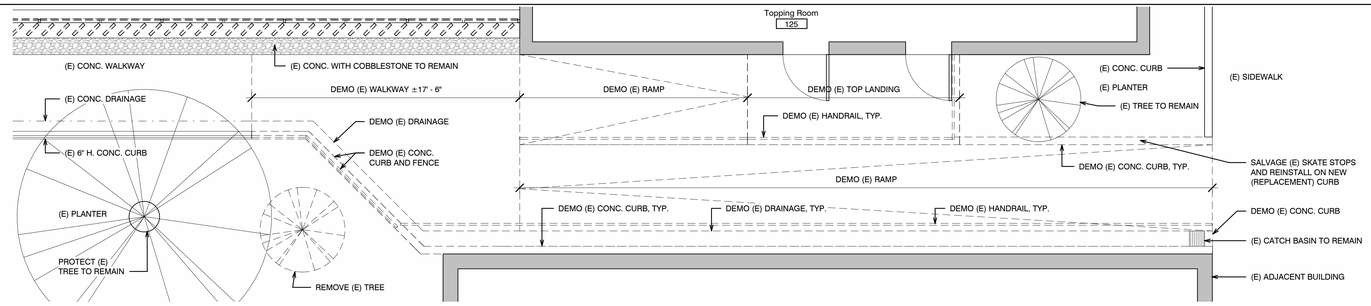
COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET ____ OF ____

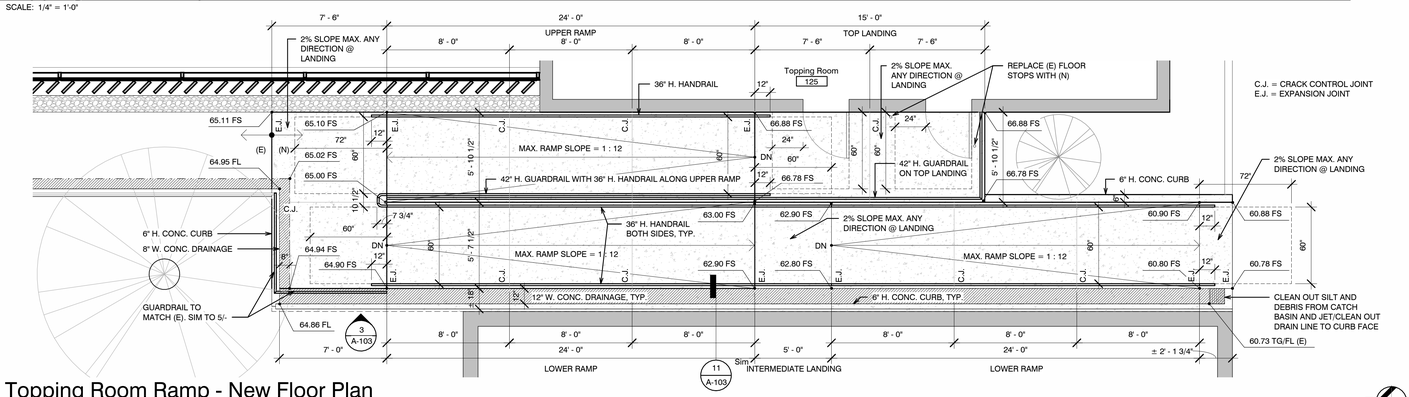
SHEET TITLE
SITE PLAN

SHEET NO
A-101



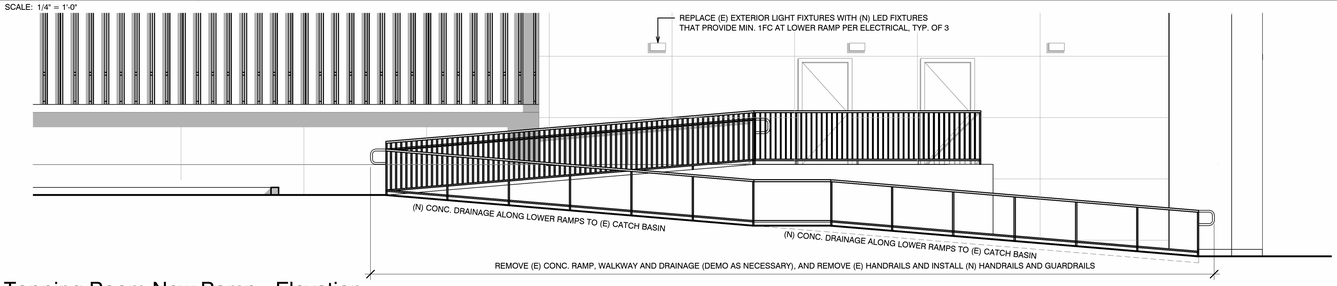
1 Topping Room Ramp - Demolition Floor Plan

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



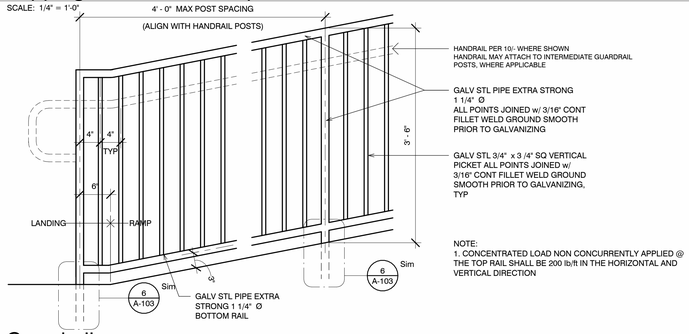
2 Topping Room Ramp - New Floor Plan

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



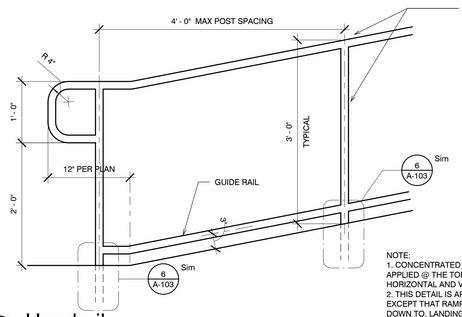
3 Topping Room New Ramp - Elevation

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



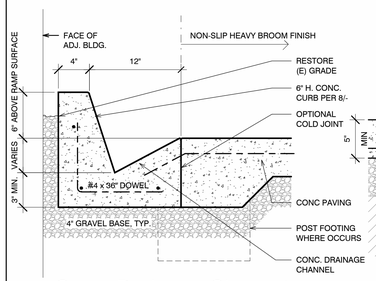
4 Handrail

SCALE: 1" = 1'-0"



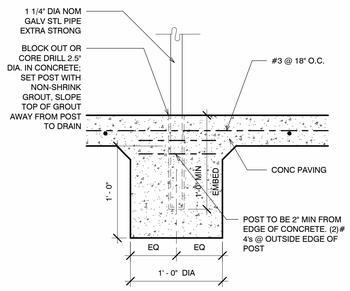
5 Guardrail

SCALE: 1" = 1'-0"



11 Conc. Drainage Channel Section

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

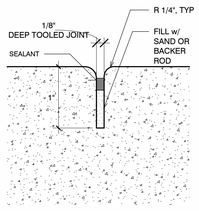


9 Handrail/Guardrail Post Edge

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

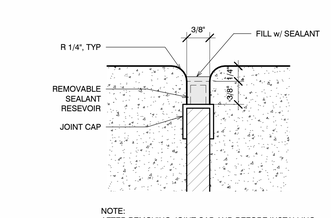
6 Handrail/Guardrail Post

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



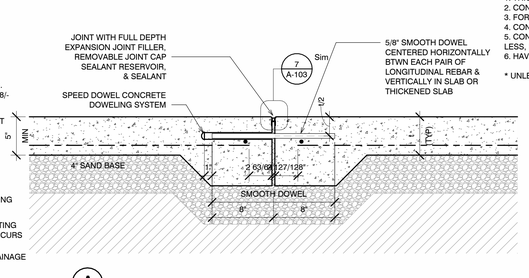
10 Crack Control Joint @ Paving

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

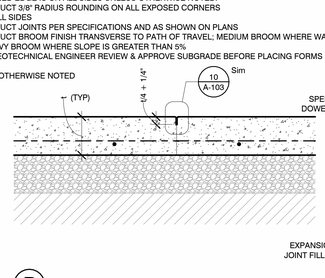


7 Expansion Joint Filler (Typical)

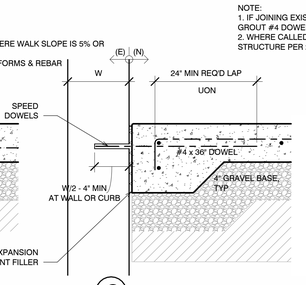
SCALE: 12" = 1'-0"



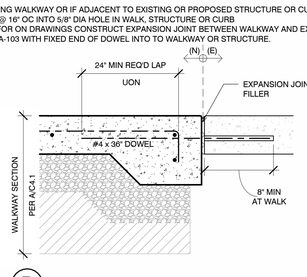
A EXPANSION JOINT (EJ)



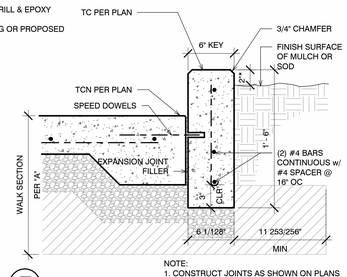
B CRACK CONTROL JOINT (C-J)



C IF ADJACENT TO CONCRETE STRUCTURE



D IF ADJACENT TO EXISTING WALK



E IF ADJACENT TO CURB

8 Typical Walkway

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

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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

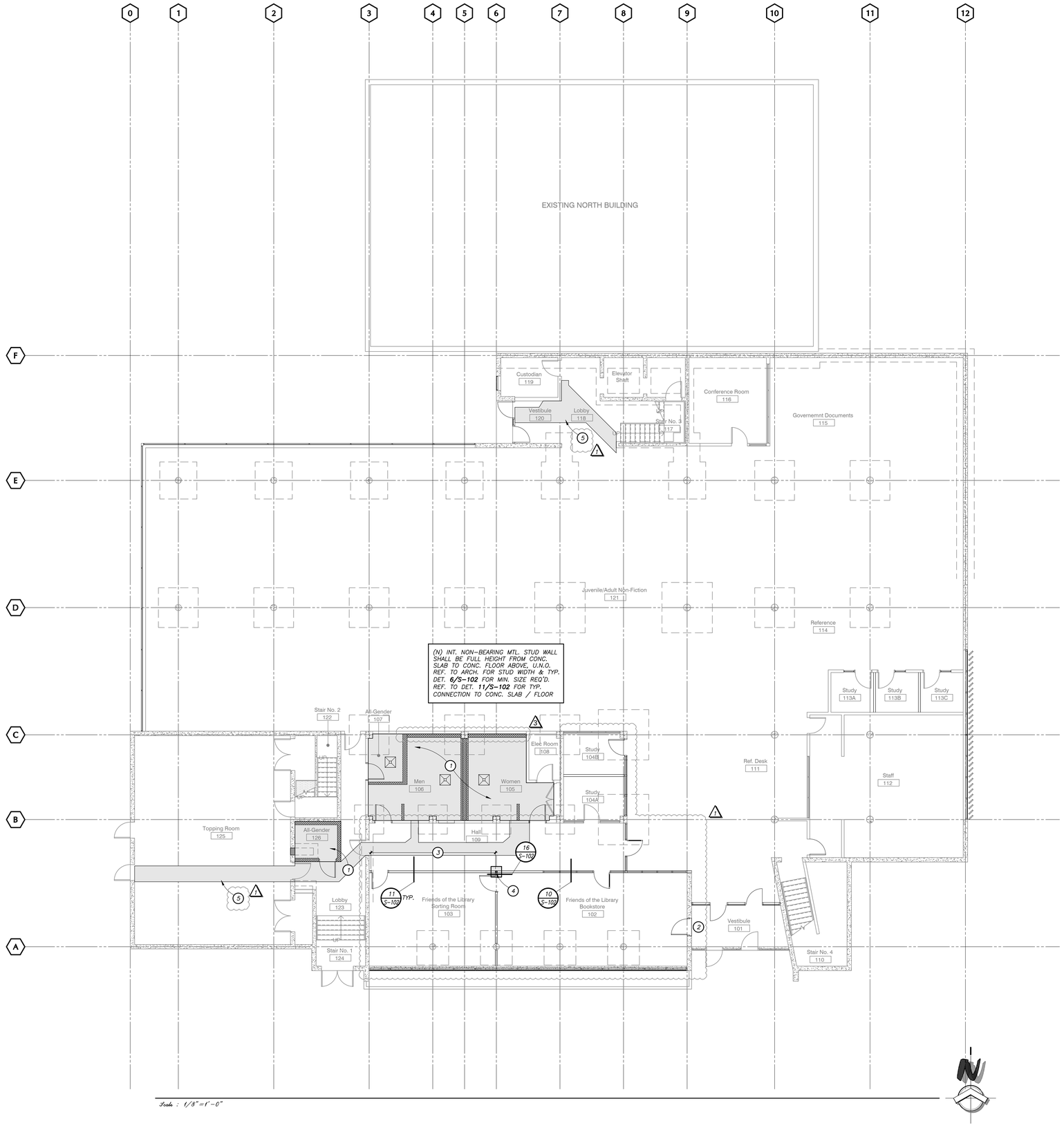
COUNTY SPEC NUMBER
CP26-12

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO
SHEET OF

SHEET TITLE
RAMP PLAN, ELEVATION AND DETAILS

SHEET NO
A-103
3



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

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 ½x⅜ 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**

Addendum No. 1

COUNTY of VENTURA
Library

PUBLIC WORKS
VENTURA COUNTY

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

Stork, Wolfe, & Associates
Structural Engineers
555 Chorro St., Ste. A1 San Luis Obispo, CA 93405
Tel. (805) 548-8600 Fax (805) 548-8601

PROFESSIONAL SEALS

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

REGISTERED PROFESSIONAL ENGINEER ROBERT R. STORK No. 4981 STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

PERMIT NO -

NO	REVISION	DATE
1	OWNER CHANGES	08.11.25
2	PLAN REVIEW CORRECTIONS	09.08.25
3	OWNER CHANGES	12.09.25

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

ABBREVIATIONS

A	AMPERES	IDF	INTERMEDIATE DISTRIBUTION FRAME
AC	ALTERNATING CURRENT	I.G.	ISOLATED GROUND
AF	AMP FRAME/AMP FUSE	JB	JUNCTION BOX
AFC	AVAILABLE FAULT CURRENT	KV	KILO VOLT
AFF	ABOVE FINISHED FLOOR	KVA	KILO VOLT AMPS=1000VA
AFG	ABOVE FINISHED GRADE	KW	KILOWATT
AIC	AMPERES INTERRUPTING CAPACITY	KCMIL	THOUSAND CIRCULAR MILS
AL	ALUMINUM	LTG	LIGHTING
ARCH	ARCHITECT	LC	LIGHTING CONTACTOR
AS	AMP SWITCH RATING	LCL	LONG CONTINUOUS LOAD
AT	AMP TRIP	LV	LOW VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	MDF	MAIN DISTRIBUTION FRAME
AV	AUDIO VISUAL	MTD	MOUNTED
AWG	AMERICAN WIRE GAGE	MTB	MAIN TELEPHONE BACKBOARD
BKBD	BACKBOARD	MTG	MOUNTING
BLDG.	BUILDING	MV	MERCURY VAPOR
BIL	BASIC IMPULSE LEVEL	MH	METAL HAUIDE
C	CONDUIT	MFG	MANUFACTURER
CB	CIRCUIT BREAKER	MPOE	MAIN POINT OF ENTRY
CBC	CALIFORNIA BUILDING CODE	(N)	NEW
CEC	CALIFORNIA ELECTRICAL CODE	NC	NORMALLY CLOSED
CF	COMPACT FLUORESCENT	NEC	NATIONAL ELECTRICAL CODE
CFC	CALIFORNIA FIRE CODE	NIC	NOT IN CONTRACT
CONT.	CONTINUATION	NL	NIGHT LIGHT
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CONDUIT ONLY	P	POWER OR POLE
CSFM	CA. STATE FIRE MARSHALL	PBO	PROVIDED BY OTHERS
CTV	CABLE TELEVISION	PNL	PANEL
(CU)	COPPER	(R)	REMOVED
CW	COLD WATER PIPE	RGS	RIGID GALVANIZED STEEL CONDUIT
COMM	COMMUNICATION	RM	ROOM
SN	SYSTEM NEUTRAL	SYS	SYSTEM
DIS	DISCONNECT	TC	TIME CLOCK
DS	DISCONNECT SWITCH	TTB	TELEPHONE TERMINAL BOARD
DWG	DRAWING	TTC	TELEPHONE TERMINAL CABINET
EC	ELECTRICAL CONTRACTOR	TR	TRANSFORMER
(F)	FRONT	TYP	TYPICAL
FAU	FORCED AIR UNIT	UON	UNLESS OTHERWISE NOTED
FS	SHALLOW FLOOR BOX	UNSW	UNSWITCHED
GC	GENERAL CONTRACTOR	VA	VOLT AMPS
GFI	GROUND FAULT INTERRUPTER	V	VOLTS/VOLTAGE
GND	GROUND	W	WATTS/WATTAGE
HID	HIGH INTENSITY DISCHARGE	WP	WEATHERPROOF
HP	HORSEPOWER	W/	WITH
HV	HIGH VOLTAGE	(X)	EXISTING
HZ	HERTZ		

U.L. STANDARD 486B TORQUING RECOMMENDATIONS

TIGHTENING TORQUE FOR SCREWS (a)

TORQUE, POUND – INCHES

WIRE SIZE	SLOTTED HEAD NO. 10 AND LARGER (b)				HEXAGONAL HEAD/EXTERNAL DRIVE SOCKET WRENCH	
	SLOT WIDTH (IN.)		SLOT LENGTH (IN.)		SPLIT-BOLT	OTHER
	TO 3/64	OVER 3/64	TO 1/4	OVER 1/4	CONNECTORS	CONNECTORS
18–10 AWG	20	35	20	35	80	75
8	25	40	25	40	80	75
6	35	45	35	45	165	110
4	–	45	–	45	165	110
3	–	50	–	50	275	150
2	–	50	–	50	275	150
1	–	50	–	50	275	150
1/0	–	50	–	50	385	180
2/0	–	50	–	50	385	180
3/0	–	50	–	50	500	250
4/0	–	50	–	50	500	250
250 kcmil	–	50	–	50	650	325
300	–	50	–	50	650	325
350	–	50	–	50	650	325
400	–	50	–	50	825	325
500	–	50	–	50	825	375
600	–	50	–	50	1000	375
700	–	50	–	50	1000	375
750	–	50	–	50	1000	375
800	–	50	–	50	1100	500
900	–	50	–	50	1100	500
1000	–	50	–	50	1100	500
1250	–	–	–	–	1100	600
1500	–	–	–	–	1100	600
1750	–	–	–	–	1100	600
2000	–	–	–	–	1100	600

THIS TABLE GIVES RECOMMENDED CONNECTOR INSTALLING TORQUE'S FOR COPPER AND ALUMINUM CONDUCTORS. THEY ARE FOR GUIDANCE ONLY WHERE NO TIGHTENING INFORMATION IS AVAILABLE AND SHOULD NOT BE USED TO REPLACE MANUFACTURERS' INSTRUCTIONS WHICH SHOULD ALWAYS BE FOLLOWED.

(a) CLAMPING SCREWS WITH MULTIPLE TIGHTENING MEANS; FOR EXAMPLE, FOR A SLOTTED HEXAGONAL HEAD SCREW, USE THE HIGHEST TORQUE VALUE ASSOCIATED WITH THE DIFFERENT TIGHTENING MEANS.

(b) FOR VALUES OF SLOT WIDTH OR LENGTH OTHER THAN THOSE SPECIFIED, SELECT THE LARGEST TORQUE VALUE ASSOCIATED WITH CONDUCTOR SIZE.

CEC ART. 310 CONDUCTOR DERATING

NEC #310.15 (B)(3)(a) ADJUSTMENT FACTORS

(a) MORE THAN THREE CURRENT–CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT–CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE. THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE FOLLOWING TABLE:

NUMBER OF CURRENT–CARRYING CONDUCTORS	PERCENT OF VALUES IN TABLES AS ADJUSTED FOR AMBIENT TEMPERATURE IF NECESSARY
4 THROUGH 6	80
7 THROUGH 9	70
10 THROUGH 20	50
21 THROUGH 30	45
31 THROUGH 40	40
41 AND ABOVE	35

WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS SHOWN IN THE ABOVE TABLE.

EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300–3, ARE INSTALLED IN A COMMON RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215, 220, AND 230) CONDUCTORS ONLY.

EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 392.11 SHALL APPLY.

EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES (600mm).

EXCEPTION NO. 4: DERATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THE NUMBER OF CONDUCTORS DOES NOT EXCEED FOUR.

CEC WIRE FILL TABLE 314.16(a)

JUNCTION BOX DIMENSION, INCHES TRADE SIZE OR TYPE	MIN. CU. IN. CAP.	MAXIMUM NUMBER OF CONDUCTORS				
		NO.14	NO.12	NO.10	NO.8	NO.6
4 x1–1/4 ROUND OR OCTAGONAL	12.5	6	5	5	5	2
4 x1–1/2 ROUND OR OCTAGONAL	15.5	7	6	6	5	3
4 x2–1/8 ROUND OR OCTAGONAL	21.5	10	9	8	7	4
4 x1–1/4 SQUARE	18.0	9	8	7	6	3
4 x1–1/2 SQUARE	21.0	10	9	8	7	4
4 x2–1/8 SQUARE	30.3	15	13	12	10	6
4–11/16 x1–1/4 SQUARE	25.5	12	11	10	8	5
4–11/16 x1–1/2 SQUARE	29.5	14	13	11	9	5
4–11/16 x2–1/8 SQUARE	42.0	21	18	16	14	8
3 x2 x1–1/2 DEVICE	7.5	3	3	3	2	1
3 x2 x2 DEVICE	10.0	5	4	4	3	2
3 x2 x2–1/4 DEVICE	10.5	5	4	4	3	2
3 x2 x2–1/2 DEVICE	12.5	6	5	5	4	2
3 x2 x2–3/4 DEVICE	14.0	7	6	5	4	2
3 x2 x3–1/2 DEVICE	18.0	9	8	7	6	3
4 x2–1/8 x1–1/2 DEVICE	10.3	5	4	4	3	2
4 x2–1/8 x1–7/8 DEVICE	13.0	6	5	5	4	2
4 x2–1/8 x2–1/8 DEVICE	14.5	7	6	5	4	2
3–3/4 x2 x2–1/2 MASONRY BOX / GANG	14.0	7	6	5	4	2
3–3/4 x2 x3–1/2 MASONRY BOX / GANG	21.0	10	9	8	7	4
FS – MINIMUM INTERNAL DEPTH 1–3/4 SINGLE COVER / GANG	13.5	6	6	5	4	2
FD – MINIMUM INTERNAL DEPTH 2–3/8 SINGLE COVER / GANG	18.0	9	8	7	6	3
FS – MINIMUM INTERNAL DEPTH 1–3/4 MULTIPLE COVER / GANG	18.0	9	8	7	6	3
FD – MINIMUM INTERNAL DEPTH 2–3/8 MULTIPLE COVER / GANG	24.0	12	10	9	8	4

GENERAL ELECTRICAL NOTES

A. GENERAL

1. SCOPE
THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT.

2. PERMITS AND CHARGES
OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.

3. REGULATIONS AND CODES
PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE, CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

APPLICABLE CODES

2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.;
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.;
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.;
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.;
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.;
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
2022 TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

NFPA 13–AUTOMATIC SPRINKLER SYSTEMS, 2016 EDITION
NFPA 14–STANDPIPES SYSTEMS, 2019 EDITION
NFPA 17A–WET CHEMICAL SYSTEMS, 2017 EDITION
NFPA 24–PRIVATE FIRE MAINS, 2019 EDITION– PART OF NFPA 13 CHAPTER 5
NFPA 72 (CALIFORNIA AMENDED)– NATIONAL FIRE ALARM CODES, 2019 EDITION
NFPA 101 LIFE SAFETY CODE, 2018 EDITION
NFPA 253–CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2019 EDITION
NFPA 2001–CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2018 EDITION

4. VERIFYING EXISTING CONDITIONS
BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING SITE. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.

5. COORDINATION
COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION, DEVICES, RACEWAYS, WIRING, LIGHT FIXTURES, CONTROLS, ETC. REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.

ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED.

6. SERVICE CONTINUITY
UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN–HOURS REQUIRED FOR COMPLETION.

7. AS BUILT
PROVIDE RECORD DRAWINGS TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.

MARK PROJECT RECORD DOCUMENTS DAILY TO INDICATE ALL CHANGES MADE IN THE FIELD.
A.) IN ADDITION TO GENERAL REQUIREMENTS OF PROJECT RECORD DRAWINGS, INDICATE ON DRAWINGS, CHANGES OF EQUIPMENT LOCATIONS AND RATINGS, TRIP SIZES, AND SETTINGS ON CIRCUIT BREAKERS, ALTERATIONS IN RACEWAY RUNS AND SIZES, CHANGES IN WIRE SIZES, CIRCUIT DESIGNATIONS, INSTALLATION DETAILS, ONE–LINE DIAGRAMS, CONTROL DIAGRAMS AND SCHEDULES.

USE GREEN TO INDICATE DELETIONS AND RED TO INDICATE ADDITIONS.
A.) USE THE SAME SYMBOLS AND FOLLOW THE SAME DRAFTING PROCEDURES USED ON THE CONTRACT DRAWINGS.

LOCATE UNDERGROUND CONDUIT STUBBED–OUT FOR FUTURE USE, UNDERGROUND FEEDER CONDUITS, AND FEEDER PULL BOX LOCATIONS USING BUILDING LINES BY INDICATING ON THE PROJECT RECORD DRAWINGS.

AT THE COMPLETION OF UNDERGROUND CONDUIT INSTALLATION PROVIDE UNDERGROUND CONDUIT RECORD DOCUMENTS TO OWNER'S REPRESENTATIVE.

TWO COPIES, IN BINDER FORM, OF ALL TEST RESULTS AS REQUIRED BY THESE DOCUMENTS.

TWO COPIES OF LOCAL AND/OR STATE CODE ENFORCING AUTHORITIES FINAL INSPECTION CERTIFICATES.

TWO COPIES, IN BINDER FORM, OF ELECTRICAL EQUIPMENT CUT SHEETS, MANUFACTURER'S INSTALLATION INSTRUCTIONS, WARRANTY CERTIFICATES, AND PRODUCT LITERATURE FOR ALL PRODUCTS UTILIZED ON PROJECT.

8. GUARANTEE
CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.

9. SHOP DRAWINGS
SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL.

SUBMIT SIX SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.

10. CONTRACTOR BID
CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF OTHER CONTRACTORS.

B. MATERIAL AND INSTALLATION
ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.

ALL MATERIALS SHALL BE NEW AND LISTED BY UNDERWRITERS LABORATORY (U.L.).

1. CONDUITS
CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH U.L–1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 SHALL BE PERMITTED.

2. SWITCHES AND RECEPTACLES
PROVIDE 20AMP NEMA RATED SWITCHES AND RECEPTACLES OF SPECIFICATION GRADE. ALL SWITCHES SHALL BE RATED FOR 120 AND/OR 277 VOLT AND RECEPTACLES SHALL BE NEMA 5–20R. IN ALL OFFICES AND OFFICE AREAS DEVICES SHALL BE DECORA TYPE WITH COLOR SELECTION BY CONTRACTOR/OWNERS REPRESENTATIVE.

3. FEEDERS AND BRANCH CIRCUITS IDENTIFICATION
IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER–CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E–Z CODE OR OTHER APPROVED WIRE MARKER.

IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER–CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF–STICKING MARKERS SUCH AS THOMAS & BETTS E–Z CODE FOR IDENTIFICATION OF CONDUCTORS.

IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET.

4. CONDUCTORS
DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS)

PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH THHN/THWN 600 VOLTS INSULATION, UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRE TERMINATORS, STRESS CONES, COMPRESSION PIN ADAPTERS, LUGS, WIRE NUTS, ETC. AS REQUIRED TO TERMINATE ANY AND ALL CONDUCTORS.

5. LIGHTING FIXTURES
PROVIDE LIGHTING FIXTURES WITH LED DRIVER PER SCHEDULE, PROVIDE WITH LED BY G.E., PHILIPS OR SYLVANIA.

6. PANELBOARDS (BID SQUARE D)
DISTRIBUTION AND LIGHTING PANELBOARDS WITHIN PROJECT AREA SHALL BE OF THE COPPER BUS THREE PHASE, FOUR WIRE DISTRIBUTED PHASING TYPE. CIRCUITING SHALL BE ARRANGED TO PROVIDE, AS NEARLY AS POSSIBLE, AN EVENLY BALANCED LOAD ON ALL PHASES. PANELBOARDS SHALL BE BOLT–ON CIRCUIT BREAKER TYPE. AVAILABLE FAULT CURRENT IS STATED ON PANELBOARD SCHEDULE. PROVIDE PANEL IDENTIFICATION NAMEPLATE (ENGRAVED ON–ADHESIVE 1/2" MINIMUM LETTERS) AND TYPEWRITTEN LIST OF CIRCUITS IN THE DIRECTORY FRAME.

7. STRUCTURAL SUPPORT
EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"–10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB–FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.

CEC 110.34(C)

CONTRACTOR SHALL PROVIDE PERMANENT SIGNAGE AT ALL HIGH VOLTAGE ENCLOSURES, FENCING, ROOMS, VAULTS, ETC. PER CEC 110.34(C). SIGNAGE SHALL READ "DANGER–HIGH VOLTAGE–KEEP OUT"

CEC 110.16

ALL SWITCHBOARDS & PANELBOARDS SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS, PER CEC 110.16 THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

C. DEMOLITION
NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS.

1. ALL REMOVED MATERIALS AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON THE PREMISES AS DIRECTED BY OWNER, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY THE OWNER TO BE SCRAP.

2. ALL DEVICES, CIRCUITS CONDUCTORS, FEEDERS ETC., WHEN NOTED TO BE REMOVED, SHALL BE REMOVED TO THE LAST ACTIVE DEVICE. ALL OVER–CURRENT PROTECTION AND DISCONNECT DEVICES NO LONGER UTILIZED BUT REMAINING AS LAST ACTIVE DEVICE SHALL BE LABELED AS 'SPARE'. COORDINATE ALL OUTAGES WITH OWNERS REPRESENTATIVE.

D. EXECUTION
CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.

1. EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY.

2. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.

3. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS.

4. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.

5. ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.

E. VOICE/DATA SYSTEMS
PROVIDE RACEWAYS, CAT 6 CABLING, PATCH PANELS, JACKS, TERMINATIONS, BOXES, SUPPORTS, AND ALL MATERIAL INCLUDING PULLING NEW CABLE FROM IDF TO OUTLET AT DESK OR WORKSTATION.

F. GROUNDING & BONDING
FURNISH AND INSTALL COMPLETE BONDING AND GROUNDING SYSTEM AS REQUIRED BY CODES. CONTINUITY OF GROUNDING SHALL BE MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHOUT THE SYSTEM. A GREEN GROUNDING CODE SIZED CONDUCTOR SHALL BE CARRIED IN ALL CONDUITS.

G. INSTALLATION
IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

1. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CODES: NOTHING IN THESE PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES.

2. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.

3. PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.

4. FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF HEATING AND VENTILATING CONTRACTOR.

5. DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN.

6. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1–1/2" DEEP.

7. EXAMINE PLANS TO DISCERN CEILINGS WITH A FIRE RATING OF ONE HOUR OR MORE, PROVIDE A ONE HOUR FIRE–RATED ENCLOSURE OVER EACH LIGHT FIXTURE RECESSED THEREIN.

8. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH, OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SEPARATED BY AT LEAST THREE (3) INCHES FROM WATER LINES WHENEVER THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SHALL NOT BE RUN BELOW CABLE TRAYS OR LIGHT FIXTURES WITHOUT SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HANGERS SHALL BE FASTENED TO STEEL, CONCRETE OR MASONRY, BUT NOT TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEGRAL PART OF THE VISUAL ENVIRONMENT. ALL HANGERS AND SUPPORTS EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON PLANS SUBMITTED TO LANDLORD FOR APPROVAL OF APPEARANCE. ALL HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTALLED WITH NO EXCESS MATERIALS BEYOND THOSE REQUIRED FOR THE SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSORIES AND HARDWARE WITH A SMOOTH, NEAT FINISHED APPEARANCE AND PAINT ALL EXPOSED CONDUIT HAN

MINOR ELECTRICAL DEMOLITION FOR REMODELING

1.0 EXAMINATION

A. OBTAIN RECORD DRAWINGS / AS-BUILTS FROM OWNER. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON RECORD DRAWINGS.

B. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.

C. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT

D. DISCREPANCIES TO OWNER AND ARCHITECT/ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.

BEGINNING OF DEMOLITION MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.

2.0 PREPARATION

A. DISCONNECT AND MAKE SAFE ALL ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

B. COORDINATE UTILITY SERVICE OUTAGES WITH UTILITY COMPANY AND OWNER'S REPRESENTATIVE.

C. PROVIDE WIRING AND CONNECTIONS TO MAINTAIN REQUIRED EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

D. EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA WHEN OUTAGE AFFECTS BUSINESS OPERATION.

E. EXISTING FIRE ALARM SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY OWNER AND LOCAL FIRE SERVICE AT LEAST 72 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

F. EXISTING TELEPHONE SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE.

G. EXISTING SECURITY SYSTEM: MAINTAIN EXISTING SYSTEM IN SERVICE.

3.0 DEMOLITION AND EXTENSION OF EXISTING WORK

A. DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER PROVISIONS OF THIS SECTION.

B. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

C. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY AND

D. RE-LABEL DEVICES AS SPARES.

REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.

E. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

F. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT.

G. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.

H. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.

I. DISCONNECT AND REMOVE ABANDONED CONDUIT.

J. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.

K. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

L. EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, AND IN COMPLIANCE WITH NEW PROJECT SPECIFICATIONS.

M. MODIFY EXISTING AS-BUILT DRAWINGS TO NOTE CHANGES.

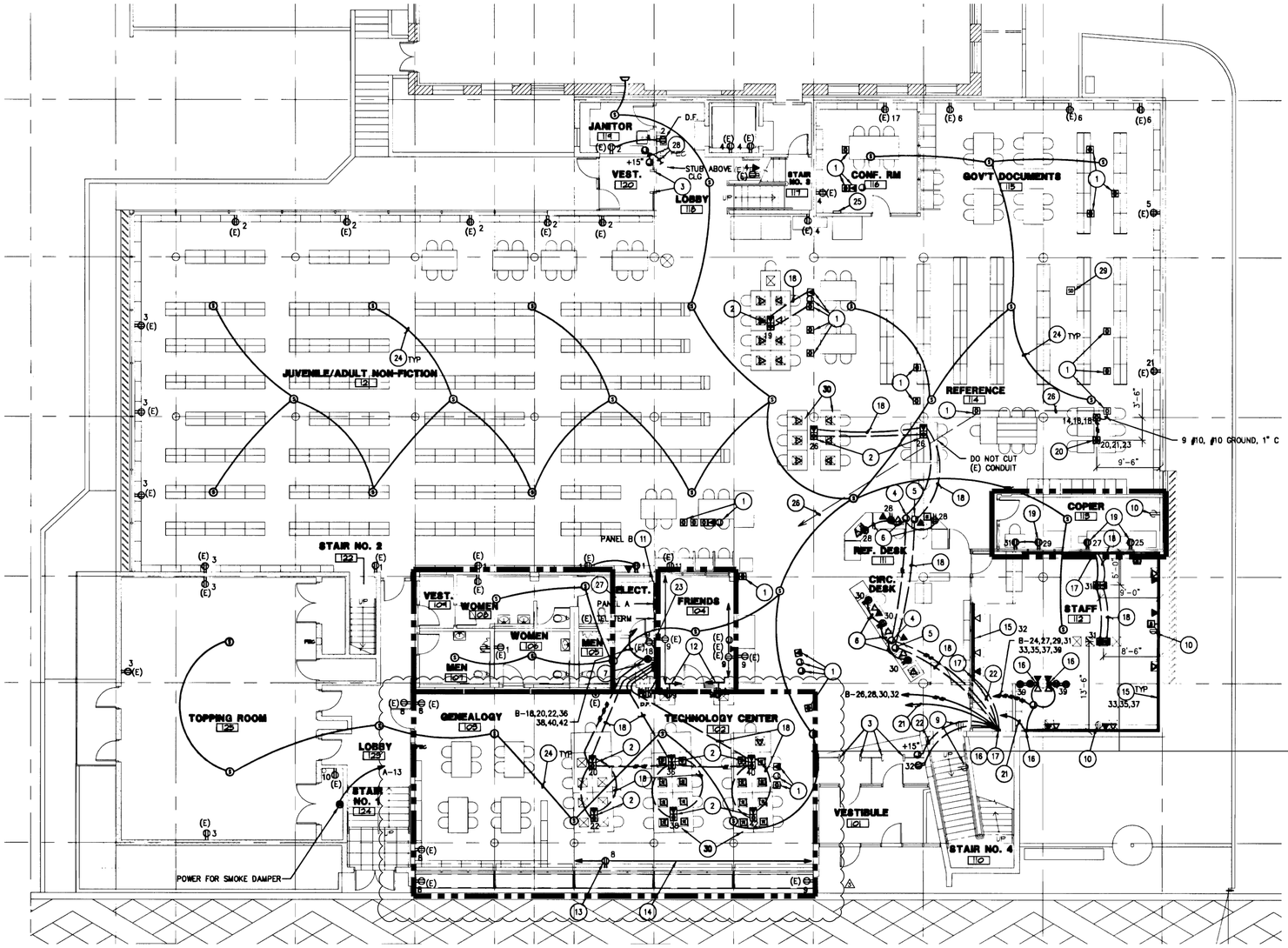
4.0 CLEANING AND REPAIR

A. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED.

B. SWITCHBOARDS & PANELBOARDS: CLEAN EXPOSED SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AND PROVIDE CLOSURE PLATES FOR VACANT POSITIONS. REPLACE ALL MISSING DEAD FRONT FITTINGS & COVERS. PROVIDE TYPED CIRCUIT DIRECTORY SHOWING REVISED CIRCUITING ARRANGEMENT.

5.0 INSTALLATION

A. INSTALL RELOCATED MATERIALS AND AS REQUIRED BY THIS SECTION AND OWNER'S REPRESENTATIVE.



1 FIRST FLOOR DEMOLITION POWER PLAN
SCALE: NONE

DEMOLITION NOTES

1. SCOPE: PROVIDE AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
2. DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
3. PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
4. MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK ON EXISTING SITE AND IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
5. DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
6. EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
7. SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY FEES AND CHARGES FOR DISPOSAL.
8. TWO WEEKS PRIOR TO START OF ANY WORK CONTRACTOR SHALL SCHEDULE ALL WORK AND ELECTRICAL SYSTEM OUTAGES WITH OWNERS WRITTEN APPROVAL.
9. PROTECT ALL EXISTING POWER, MOTORS AND RELATED EQUIPMENT, ALARM SYSTEM, LIGHTING AND CONTROL SYSTEMS, AND TELEPHONE EQUIPMENT IN PLACE. UNLESS OTHERWISE NOTED.
10. CONTRACTOR SHALL LEAVE ALL POWER AND SIGNAL CIRCUITS ENERGIZED, VIA JUNCTION BOX. TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF SYSTEMS ARE ROUTED THROUGH DEMOLITION AREA.
11. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY TRENCHING. CONTRACTOR SHALL PROTECT ALL EXISTING / REMAINING UNDERGROUND UTILITY SYSTEMS IN PLACE. CONTRACTOR SHALL REPAIR ANY UTILITY SYSTEM DAMAGE DURING CONSTRUCTION.

DEMOLITION SCOPE OF WORK:
- REMOVE & REPLACE EXISTING LIGHTING SYSTEMS WITH NEW
- REMOVE & REPLACE EXISTING INTERCOM/PAGING SYSTEM WITH NEW
- REMOVE & REPLACE EXISTING FIRE ALARM SYSTEM WITH NEW
- REMOVE & REPLACE POWER, LIGHTING, FIRE ALARM, AND COMMUNICATION SYSTEMS IN RESTROOMS, LOUNGE, ETC. ROOMS AS NOTED
- REMOVE & REPLACE EXISTING HVAC POWER SYSTEMS
- REPAIR/RENOVATE/REFINISH EXISTING POWER PANELS & SWITCHGEAR

RECORD DRAWING SHOWN FOR PROJECT AREA REFERENCE AREAS ONLY

NOTE:
DEMOLITION PROJECT AREAS. CONTRACTOR SHALL FIELD VERIFY & REMOVE ELECTRICAL OUTLETS & ELECTRICAL DEVICES, ETC. FROM DEMOLITION AREAS UNLESS OTHERWISE NOTED TO BE PROTECTED IN PLACE. PREPARE AREA TO RECEIVE NEW WORK AS INDICATED ON PLANS.

PERMIT SUBMITTAL

COUNTY of VENTURA Library

PUBLIC VENTURA COUNTY WORKS

ENGINEERING SERVICES

KBZ
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199 FIGUEROA STREET, SUITE 100A
VENTURA, CA 93001
TELEPHONE (805) 963-1726

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CONSULTING ELECTRICAL ENGINEERS
858 East Front Street
Ventura, California 93001
Phone (805) 641-4012
Fax (805) 641-0450
www.choodassociates.com

PROFESSIONAL SEALS

PERMIT APPROVAL STAMP

PERMIT NO BP25-02229

NO	REVISION	DATE
1		
2	OWNER CHANGES	08/11/25
3	PLAN REVIEW CORRECTIONS	09/08/25
4	OWNER CHANGES	12/09/25

PUBLIC WORKS PROJECT MANAGER

PRINCINPAL-IN-CHARGE: CRAIG HOOD, P.E.

DRAWN BY	CHECKED BY
ANGEL MONZON	CRAIG HOOD, P.E.

ENGINEER'S JOB NO	DATE
23-438	12/09/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER: -

COUNTY PROJECT NUMBER: P6T24008

COUNTY DWG NO | SHEET ___ OF ___

SHEET TITLE: FIRST FLOOR DEMOLITION POWER PLAN

SHEET NO: E-300

Catalog Number: | Date: | Project:

OVERVIEW

The nLight® AIR rPODLA is a wireless, line-powered wall switch that provides a user with local control of a lighting zone. These single gang decorator style devices have soft-click buttons and a green LED indicator for each button. The rPODLA wall switches communicate with other nLight AIR devices via radio frequency (RF). A line-powered wall switch can work with any nLight AIR enabled fixture or power pack to provide toggle switch operation with multi-pole and preset scene control. Wall switches with the DX option have the added ability to adjust the level of any nLight AIR controlled dimmable light fixture or on/off/dimming control of a single zone for preset scene switches.

FEATURES

- Communicates with nLight® AIR devices via radio frequency (RF) in the 900MHz spectrum
- Soft-click push-button control with LED feedback upon press
- Remotely configurable/upgradeable
- Single pole or two pole on/off control with optional raise/lower option ("DX" option)
- 2 or 4 preset scene control fully configurable via CLAIRITY+ mobile app
- Maximum of 16 total preset scenes per nLight AIR group
- Wireless multi location preset scene recall and on/off/dimming control

CUSTOM BUTTON ENGRAVING

- Custom lettering for units can be specified and ordered at: nGrave Form
- To ensure color uniformity, ordering templates facilitate specifying all buttons on a unit as custom lettered. Replacing single buttons is not recommended
- Custom buttons will ship separately and require field installation

Warranty

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products.
All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity, and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

ds design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details

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nLight® AIR

nLight® AIR rPODLA:
Wireless Line Powered Wall Switches

Note: nLight® AIR devices are only compatible with other nLight AIR enabled devices and are not cross compatible with other nLight product lines at this time.

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rPODLA
1 of 4

2 nLIGHT AIR WIRELESS LINE POWERED SWITCH

SCALE: NONE

Catalog Number: | Date: | Project:

SENSOR SWITCH AIR OVERVIEW

The Sensor Switch AIR-enabled solution offers a wireless, app-free approach to single room lighting control. Absolutely no mobile apps are needed to install and pair SensorSwitch AIR enabled products, allowing for lightning speed installation right out of the box.

WSXA SSA OVERVIEW

The WSXA SSA wall switch sensor uses Bluetooth® Low Energy (BLE) technology to enable room level dimming, occupancy sensing and daylight harvesting. This simple, cost-effective solution is ideal for small commercial indoor spaces that require small motion detection up to 20 ft (6.10 m) such as private offices, conference rooms, closets, copy rooms or any other individual room level space.
WSXA SSA is only compatible with SensorSwitch AIR-enabled fixtures and controls. Pairing in-circuit SensorSwitch AIR-enabled devices is initiated with the provisioning button using the provisioning tool provided with each unit. Once pairing is complete, settings can be changed using changing push-button programming or the Clarity+ mobile app.
WSXA SSA units come pre-configured for neutral-less wiring. If a connection with neutral wiring is required, contractors can convert the unit in seconds.

FEATURES

- Wireless dimming and switching
- Product pairing without mobile apps and laptops
- Functions with or without a neutral connection
- Occupancy and daylight sensing for code compliance
- Ideal for both new construction and renovation projects
- 100% passive detection
- Small motion detection up to 20 ft
- Programmable via push-button or Clarity+ mobile app
- Passive dual technology (PDT) utilizes PIR/Microphonics™ detection
- Vandal resistant lens
- Fully meets NEC 2017 Section 404.2C neutral requirements - no current leakage to ground when connected to neutral
- International Regulatory Certification (FCC/ISED)
- A SensorSwitch AIR group can support up to 40 nodes
- Fully compatible with JOT deployments

Warranty

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

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sensorswitch

WSXA SSA
Wireless Wall Switch Sensor with Dimming, Occupancy Detection and Daylight Harvesting

ORDERING INFORMATION

WSXA SSA										Example: WSXA SSA PDT DX WH
Series		**Detection Mode**		**Dimming**		**Operating Mode**		**Voltage**		**Color**			
WSXA SSA	Wireless Wall Occupancy Switch Sensor and Ambient Light Sensor.	[blank] PDT	(PIR) / Photocell Dual Technology	DX	Wireless Dimming	[blank] SA ASL	Automatic On Manual On Automatic Start Level SVDC	[blank] 347	120-277 VAC 347 VAC	WH IV GY	White Ivory Gray	AL BK	Lt. Almond Black

NOTES:
1. Matching wall plate provided for 120-277 VAC.

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WSXA SSA
1 of 3

3 LINE POWERED OCCUPANCY SENSOR WALL SWITCH

SCALE: NONE

CONNECT AND PROGRAM nLIGHT AIR LED DIMMER SWITCHES, OCCUPANCY SENSOR, POWER PACK/RELAYS, nLIGHT AIR PHOTO CELLS, nLIGHT AIR AUTOMATIC DAYLIGHT DIMMING DEVICES, MISCELLANEOUS nLIGHT AIR DEVICES, ETC. FOR A FULLY OPERATIONAL nLIGHT LIGHTING CONTROL SYSTEM. VERIFY AND PROVIDE nLIGHT AIR LIGHTING CONTROL CABLING REQUIREMENTS PER LIGHTING CONTROL VENDOR'S SHOP DRAWINGS AND SUBMITTALS.

IN ALL PROJECT AREAS NOT REQUIRED BY SECTION 130.1(b) THE OCCUPANT SENSING CONTROLS SHALL FUNCTION AS A OCCUPANCY SENSOR. IN ADDITION, CONTROLS SHALL BE PROVIDED THAT ALLOW THE LIGHTS TO BE MANUALLY SHUT–OFF IN ACCORDANCE WITH SECTION 130.1(a) REGARDLESS OF THE SENSOR STATUS.

ALL nLIGHT SYSTEM PROGRAMMING SHALL BE BY LOCAL ACUITY BRANDS REPRESENTATIVE STEVE DOMINGUEZ 805–701–8156.

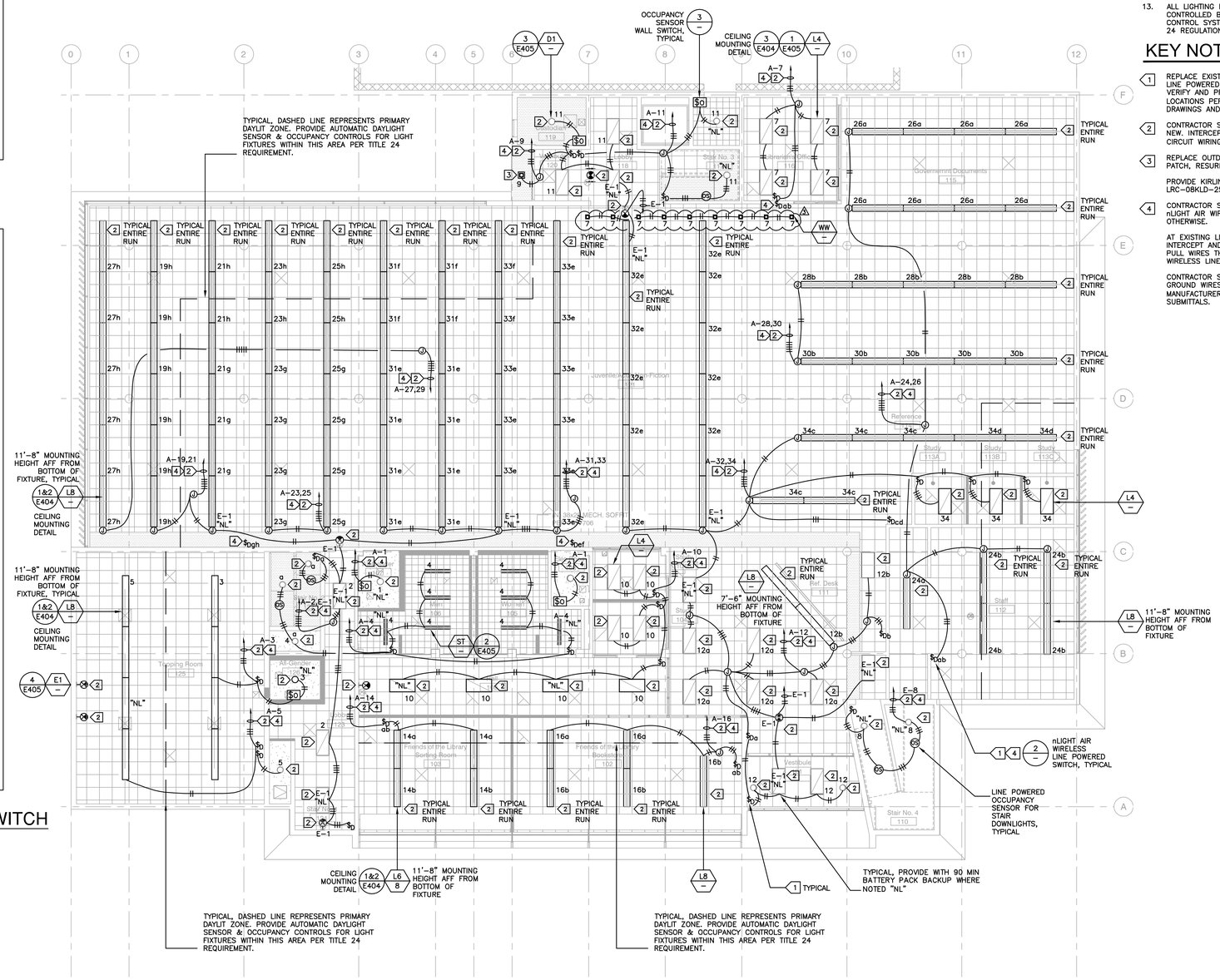
LIGHTING CONTROL LEGEND

$D	nLIGHT AIR WIRELESS LINE POWERED WALL SWITCH – MODEL #RPODLA
PP	nLIGHT AIR POWER/RELAY PACK
$O	LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH – HP RATED –MODEL #WSAX–SSA
OS	LINE VOLTAGE CEILING OCCUPANCY SENSOR

SWITCH LIGHTING CONTROL ZONE

$Dabcd ← nLIGHT AIR ON/OFF WALL DIMMER SWITCH – RPODLA–4S–DX–MVOLT–WH–G2–WS XPODA–1GNG–WH

DESIGNATED SWITCH "a" CONTROLS LIGHT FIXTURES IN ZONE "a". CONTRACTOR SHALL PROGRAM nLIGHT LED DIMMER SWITCH AND CORRESPONDING LIGHT FIXTURES LABELED "a" ON LIGHTING PLAN AS LIGHTING CONTROL ZONE "a". CONTRACTOR SHALL JOB WALK AND VERIFY LIGHTING CONTROL ZONES WITH OWNER PRIOR TO BID.



1 FIRST FLOOR LIGHTING PLAN

SCALE: 1/8"=1'–0"

SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH–IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS AND IN FEED PRIOR TO ROUGH IN.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.

KEY NOTES

1. REPLACE EXISTING LIGHT SWITCH WITH nLIGHT AIR WIRELESS LINE POWERED WALL BOX SWITCH, UNLESS OTHERWISE NOTED. VERIFY AND PROVIDE NEUTRAL AND GROUND WIRES AT SWITCH LOCATIONS PER nLIGHT MANUFACTURER'S APPROVED SHOP DRAWINGS AND SUBMITTALS.
2. CONTRACTOR SHALL REPLACE EXISTING LIGHT FIXTURES WITH NEW. INTERCEPT AND EXTEND EXISTING LIGHTING BRANCH CIRCUIT WIRING TO FEED NEW/REPLACED LIGHT FIXTURES.
3. REPLACE OUTDOOR FIXTURE WITH NEW. CONTRACTOR SHALL PATCH, RESURFACE, AND PAINT SURROUNDING CEILING AREA.

   PROVIDE KIRLIN LIGHTING: LRC–08KLD–2500L–UNV–SKL–WFL–35K–EM–94–17
4. CONTRACTOR SHALL REPLACE EXISTING LIGHT SWITCHES WITH nLIGHT AIR WIRELESS LINE POWERED SWITCHES UNLESS NOTED OTHERWISE.

   AT EXISTING LIGHTING CEILING JUNCTION BOX LOCATIONS, INTERCEPT AND EXTEND NEUTRAL AND GROUND WIRES AND PULL WIRES THROUGH EXISTING RACEWAYS TO nLIGHT AIR WIRELESS LINE POWERED SWITCH LOCATIONS.

   CONTRACTOR SHALL VERIFY AND PROVIDE NEUTRAL AND GROUND WIRES AT REPLACED SWITCH LOCATIONS PER nLIGHT MANUFACTURER'S APPROVED SHOP DRAWINGS AND SUBMITTALS.

Addendum No. 1

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COUNTY of VENTURA Library

PUBLIC VENTURA COUNTY WORKS

ENGINEERING SERVICES

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199 FIGUEROA STREET, SUITE 100A
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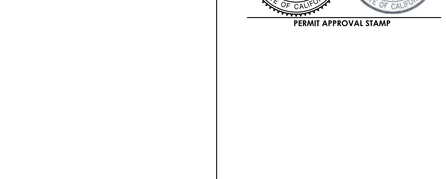
PROFESSIONAL SEALS



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PERMIT NO BP25-02229

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2	OWNER CHANGES	08/11/25
3	PLAN REVIEW CORRECTIONS	09/08/25
4	OWNER CHANGES	12/09/25

PUBLIC WORKS PROJECT MANAGER

PRINCIPAL-IN-CHARGE: CRAIG HOOD, P.E.
DRAWN BY: ANGEL MONZON
CHECKED BY: CRAIG HOOD, P.E.
ENGINEER'S JOB NO: 23-438
DATE: 12/09/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER –
COUNTY PROJECT NUMBER P6T24008
COUNTY DWG NO | SHEET ____ OF ____
SHEET TITLE: FIRST FLOOR LIGHTING PLAN
SHEET NO: E-402

CONNECT AND PROGRAM nLIGHT AIR LED DIMMER SWITCHES, OCCUPANCY SENSOR, POWER PACK/RELAYS, nLIGHT AIR PHOTO CELLS, nLIGHT AIR AUTOMATIC DAYLIGHT DIMMING DEVICES, MISCELLANEOUS nLIGHT AIR DEVICES, ETC. FOR A FULLY OPERATIONAL nLIGHT LIGHTING CONTROL SYSTEM. VERIFY AND PROVIDE nLIGHT AIR LIGHTING CONTROL CABLING REQUIREMENTS PER LIGHTING CONTROL VENDOR'S SHOP DRAWINGS AND SUBMITTALS.

IN ALL PROJECT AREAS NOT REQUIRED BY SECTION 130.1(b) THE OCCUPANT SENSING CONTROLS SHALL FUNCTION AS A OCCUPANCY SENSOR. IN ADDITION, CONTROLS SHALL BE PROVIDED THAT ALLOW THE LIGHTS TO BE MANUALLY SHUT-OFF IN ACCORDANCE WITH SECTION 130.1(a) REGARDLESS OF THE SENSOR STATUS.

ALL nLIGHT SYSTEM PROGRAMMING SHALL BE BY LOCAL ACUITY BRANDS REPRESENTATIVE STEVE DOMINGUEZ 805-701-8156.

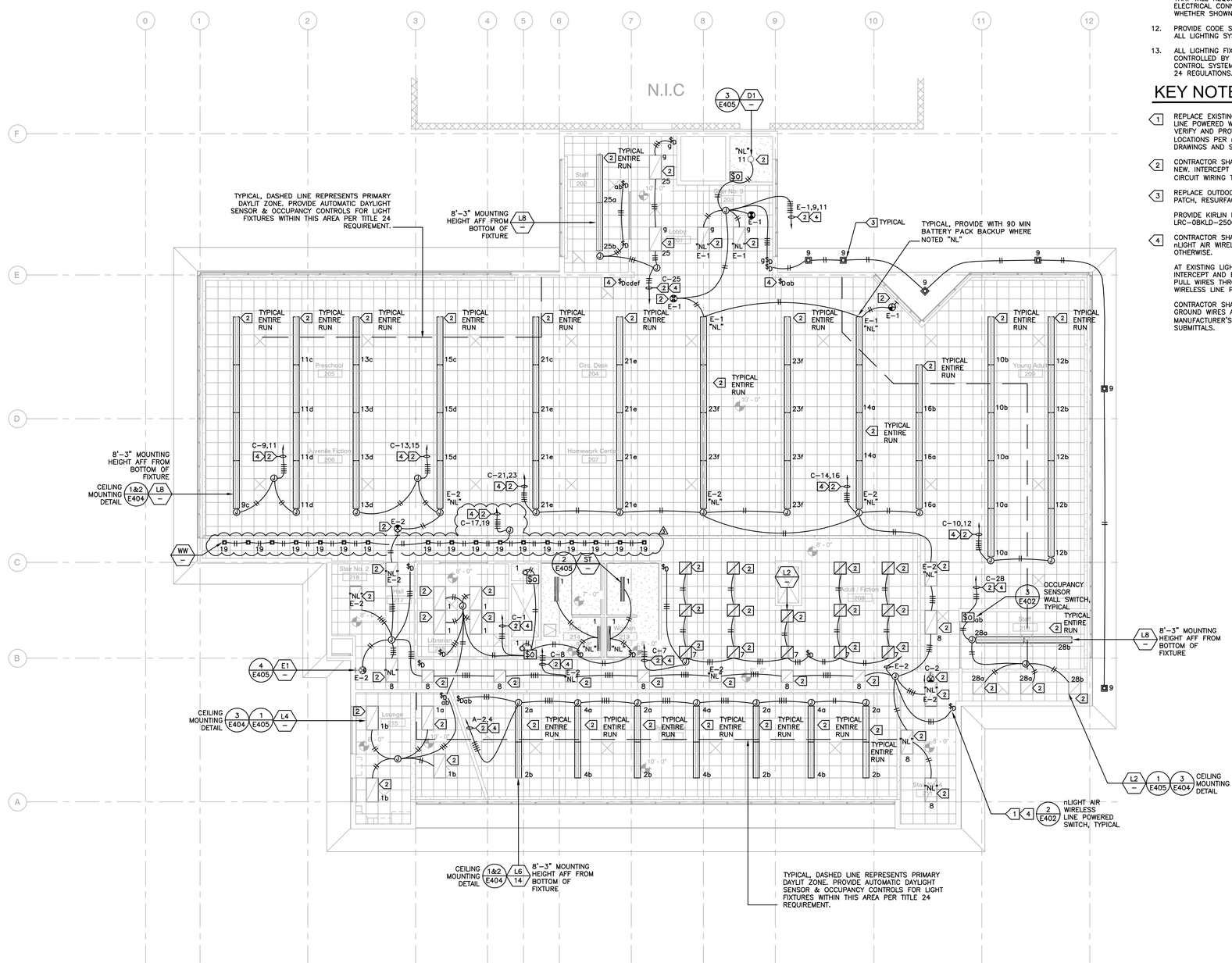
LIGHTING CONTROL LEGEND

$D	nLIGHT AIR WIRELESS LINE POWERED WALL SWITCH – MODEL #RPODLA
PP	nLIGHT AIR POWER/RELAY PACK
$O	LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH – HP RATED –MODEL #WSAX-SSA
OS	LINE VOLTAGE CEILING OCCUPANCY SENSOR

SWITCH LIGHTING CONTROL ZONE

$Dabcd — nLIGHT AIR ON/OFF WALL DIMMER SWITCH – RPODLA-4S-DX-MVOLT-WH-G2-WS XPODA-1GNG-WH

DESIGNATED SWITCH "a" CONTROLS LIGHT FIXTURES IN ZONE "a". CONTRACTOR SHALL PROGRAM nLIGHT LED DIMMER SWITCH AND CORRESPONDING LIGHT FIXTURES LABELED "a" ON LIGHTING PLAN AS LIGHTING CONTROL ZONE "a". CONTRACTOR SHALL JOB WALK AND VERIFY LIGHTING CONTROL ZONES WITH OWNER PRIOR TO BID.



1 SECOND FLOOR LIGHTING PLAN
SCALE: 1/8"=1'-0"

SHEET NOTES

1. CONTRACTOR SHALL VERIFY LOCATION, CEILING TYPE, TRIM, AND REQUIREMENTS OF ALL LIGHT FIXTURES AND CONTROL PRIOR TO BID PROPOSAL, ROUGH-IN, AND FINISH INSTALLATION.
2. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
4. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
5. ALL LIGHTING FIXTURES SHALL BE SECONDARILY SUPPORTED WITH SAFETY CABLES, PROVIDED BY CONTRACTOR.
6. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS AND IN FEED PRIOR TO ROUGH IN.
7. MAINTAIN A MAXIMUM 2% VOLTAGE DROP ON ALL LIGHTING HOMERUNS.
8. ALL EXIT SIGNS ARE +12" TO CENTER LINE OF FIXTURE ABOVE DOOR FRAME UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL PROVIDE ALL BACKING, BRACKETS, SUPPORTS, AND MOUNTING HARDWARE NECESSARY TO PROPERLY INSTALL LIGHTING FIXTURES.
10. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
12. PROVIDE CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING SYSTEM CONDUITS.
13. ALL LIGHTING FIXTURES, EXCEPT EMERGENCY, SHALL BE CONTROLLED BY CONTRACTOR PROVIDED AUTOMATIC LIGHTING CONTROL SYSTEM AS REQUIRED BY STATE OF CALIFORNIA TITLE 24 REGULATIONS.

KEY NOTES

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   PROVIDE KIRLIN LIGHTING: LRC-08KLD-2500L-UNV-SKL-WFL-35K-EM-94-17
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   CONTRACTOR SHALL VERIFY AND PROVIDE NEUTRAL AND GROUND WIRES AT REPLACED SWITCH LOCATIONS PER nLIGHT MANUFACTURER'S APPROVED SHOP DRAWINGS AND SUBMITTALS.

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PUBLIC WORKS PROJECT MANAGER

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CRAIG HOOD, P.E.

DRAWN BY	CHECKED BY
ANGEL MONZON	CRAIG HOOD, P.E.
ENGINEER'S JOB NO	DATE
23-438	12/09/2025

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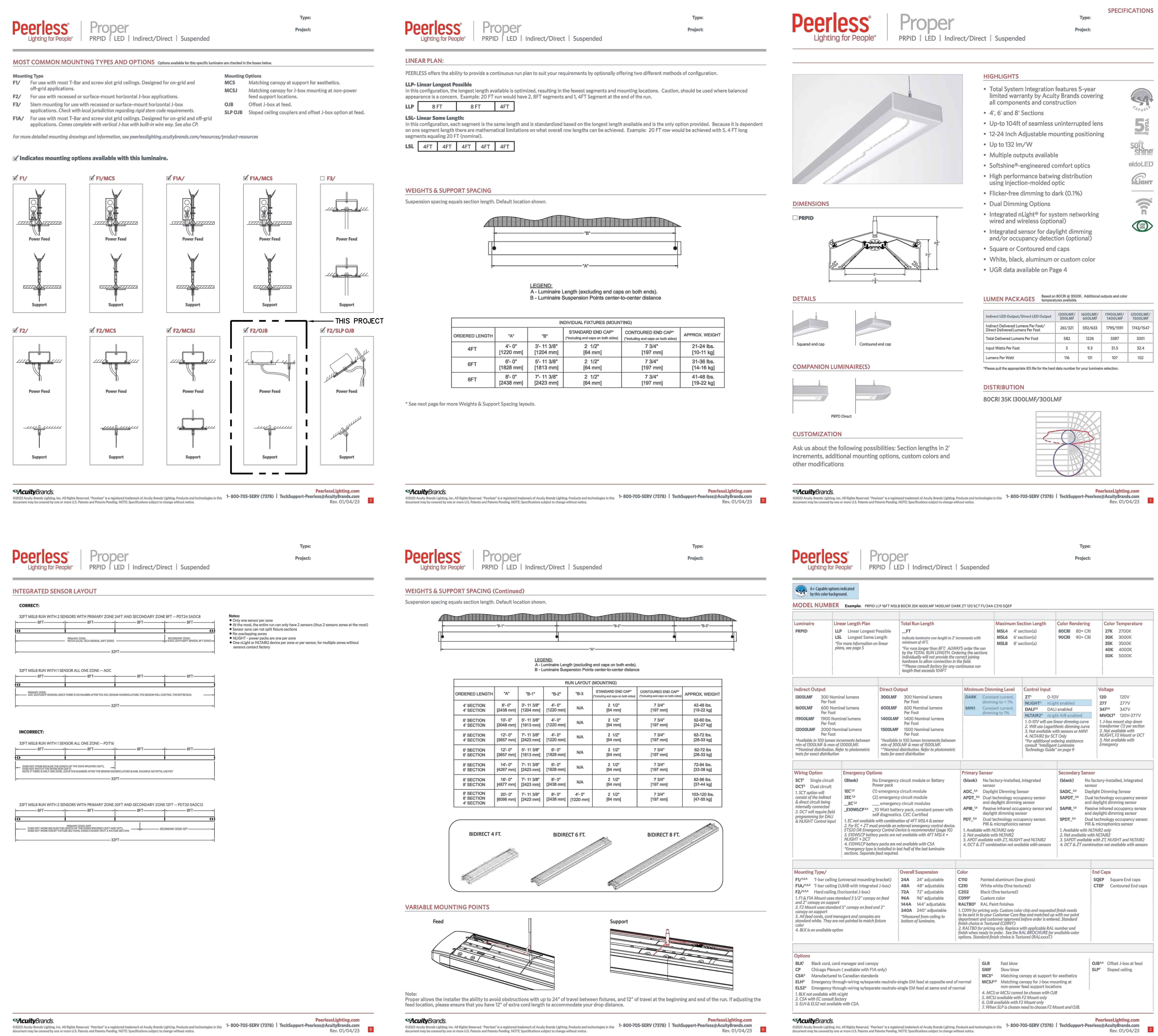
COUNTY SPEC NUMBER
-

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
SECOND FLOOR LIGHTING PLAN

SHEET NO
E-403



2 FIXTURE TYPE "L8" DATA SHEETS

SCALE: NONE

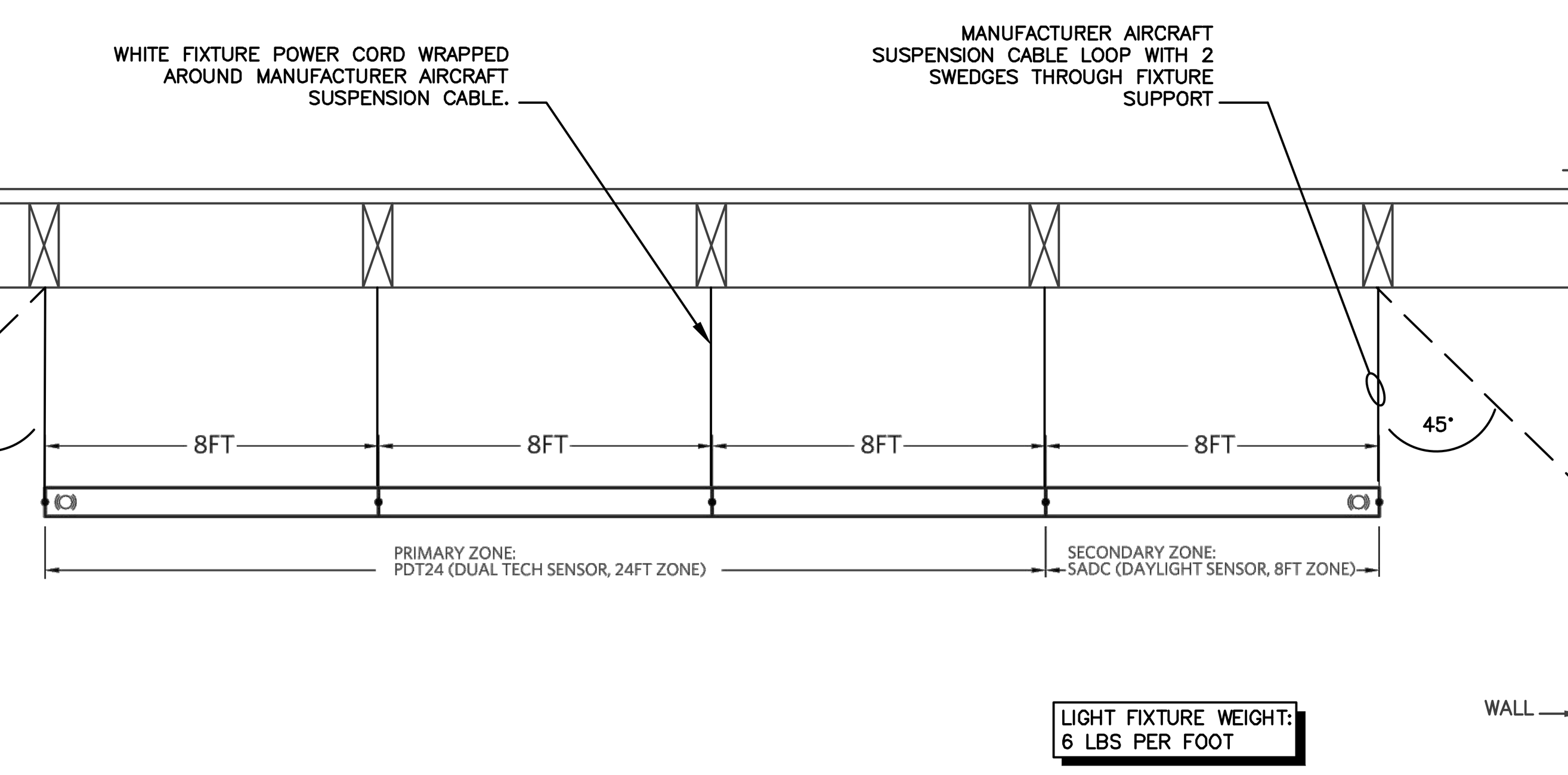
INDOOR LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	WATT	DESCRIPTION	LAMP - TYPE AND QUANTITY	MOUNTING	MANUFACTURER AND MODEL NUMBER	REMARKS
D1 –	○	31	LED 4" OPEN DOWNLIGHT FIXTURE	LED 3500K	RECESSED	GOTHAM IVO4S–D–30LM–35K–90CRI–MWD–MIN1–MVOLT–EZT–WR–LD–RIO	PROVIDE WITH 90 MIN BATTERY PACK BACKUP WHERE NOTED "NL"
E1 –		3.1	LED EDGE EXIT SIGN	LED	SURFACE	LITHONIA LIGHTING LRP–RW–120/277–ELN	PROVIDE WITH APPROPRIATE DIRECTIONAL CHEVRONS AS NECESSARY TO COMPLY WITH LIFE SAFETY CODE REQUIREMENTS.
L2 –		36	LED 2X2 LAY–IN FIXTURE	LED 3500K	LAY–IN	LITHONIA LIGHTING ENVX–2X2–HRG–4000LM–90CIR–35K –MIN1–EZT–MVOLT–NLTAIR2–APDT–RIO	PROVIDE WITH 90 MIN BATTERY PACK BACKUP WHERE NOTED "NL"
L4 –		51	LED 2X4 LAY–IN FIXTURE	LED 3500K	LAY–IN	LITHONIA LIGHTING ENVX–2X4–HRG–6000LM–90CIR–35K –MIN1–EZT–MVOLT–NLTAIR2–APDT–RIO	PROVIDE WITH 90 MIN BATTERY PACK BACKUP WHERE NOTED "NL"
L6 –		80	1X6 PENDANT MOUNTED LED LINEAR	LED 3500K	PENDANT	PEERLESS LIGHTING PRPID–LLP–6FT–MSL6–90CRI –35K–I1200LMF/I400LMF–MIN1–NLTAIR2 –120–SCT–PDT–SADC–F1/48A–C210–CTEP–MCS	PROVIDE WITH 90 MIN BATTERY PACK BACKUP WHERE NOTED "NL"
L8 –		106	1X8 PENDANT MOUNTED LED LINEAR	LED 3500K	PENDANT	PEERLESS LIGHTING PRPID–LLP–8FT–MSL8–90CRI –35K–I1200LMF/I400LMF–MIN1–NLTAIR2 –120–SCT–PDT–SADC–F1/48A–C210–CTEP–MCS	PROVIDE WITH 90 MIN BATTERY PACK BACKUP WHERE NOTED "NL"
ST –		49	4' FOOT LED SURFACE MOUNT	LED 3500K	SURFACE	KENALL LIGHTING MLHA8–48–R–MW–PP–45L35K–DCC–DV–LEL–MS–RIO	PROVIDE WITH 90 MIN BATTERY PACK BACKUP WHERE NOTED "NL"
WW –		30	6' SQUARE SHALLOW RECESSED WALL WASH	LED 3500K	LAY–IN	GOTHAM LIGHTING IVO6SQS WW–30LM–35K–MIN1–MVOLT–NLTAIR2–LW–WMR–LD	

3

FIXTURE SCHEDULE NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING PROPER TYPES OF TRIMS FOR ALL RECESSED FIXTURES TO FIT THE CEILING BEING INSTALLED.
2. FIXTURES TYPE IN CONTACT WITH INSULATION SHALL HAVE U.L. LISTED THERMAL BARRIER.
3. CONTRACTOR SHALL VERIFY THE TYPE OF CEILING BEFORE ORDERING NEW FIXTURES. CONTRACTOR IS FULLY RESPONSIBLE TO PROVIDE ALL MOUNTING BRACKETS TO FIT CEILING CONDITIONS AT NO EXTRA CHARGE TO THE OWNER.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
5. SEE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS, CEILING CONFIGURATION AND LIGHTING PLACEMENT.
6. XX — FIXTURE TYPE; XX — QUANTITY (WHERE NO NUMERIC QUANTITY IS LISTED, FIXTURE TYPE IS TYPICAL FOR ENTIRE AREA)
7. EXIT SIGN CURRENT POWER SUPPLY TO ONE OF THE LAMPS SHALL BE PROVIDED BY THE PREMISES' WIRING SYSTEM; POWER SUPPLY TO THE OTHER LAMP SHALL BE FROM STORAGE BATTERIES OR AN ON–SITE GENERATOR. IN THE EVENT OF A POWER FAILURE, ILLUMINATION SHALL AUTOMATICALLY BE PROVIDED BY AN EMERGENCY SYSTEM FOR A DURATION OF 90 MIN. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.



FIXTURE TYPE "L8/L12" SIDE VIEW

ALL LIGHTING FIXTURES SHALL BE SECURELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 PERCENT OF THE LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION.

WHEN INTERMEDIATE SYSTEMS ARE USED, #12 GAGE HANGERS SHALL BE ATTACHED TO THE GRID MEMBERS WITHIN 3 INCHES OF EACH CORNER OF EACH FIXTURE. TANDEM FIXTURES MAY UTILIZE COMMON WIRES.

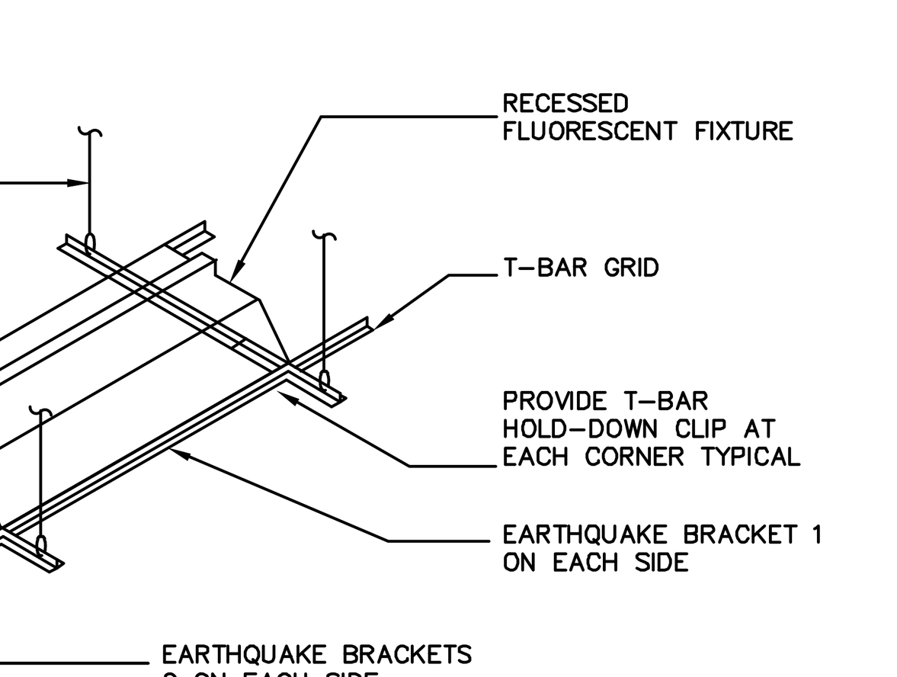
WHERE HEAVY DUTY SYSTEMS ARE USED, SUPPLEMENTAL HANGERS ARE NOT REQUIRED IF A 48 INCH MODULAR HANGER PATTERN IS FOLLOWED. WHEN CROSS RUNNERS ARE USED WITHOUT SUPPLEMENTAL HANGERS TO SUPPORT LIGHTING FIXTURES, THESE CROSS RUNNERS MUST PROVIDE THE SAME CARRYING CAPACITY AS THE MAIN RUNNER.

LIGHTING FIXTURES WEIGHING 56 POUNDS OR MORE SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS.

PENDENT MOUNTED LIGHTING FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING 12 GAGE WIRE OR APPROVED ALTERNATE.

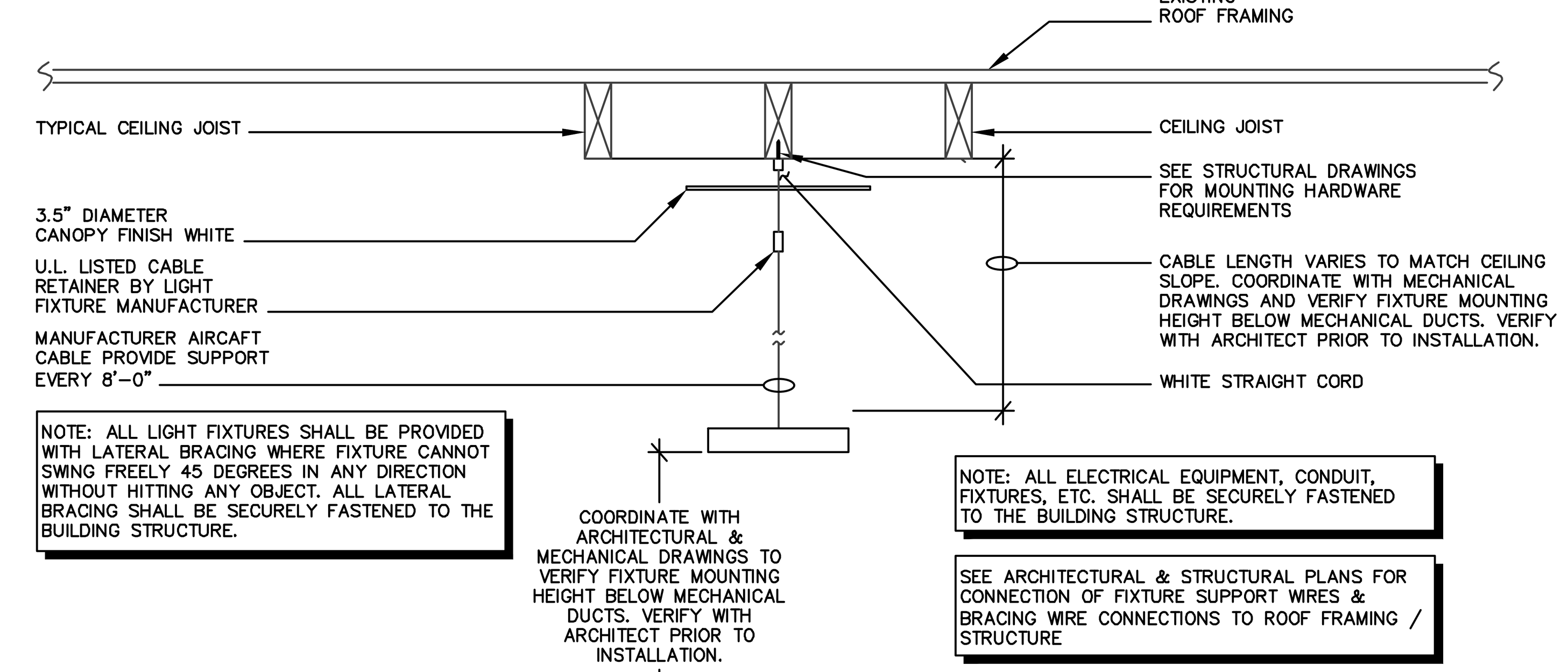
NOTE: ALL ELECTRICAL EQUIPMENT, CONDUIT, FIXTURES, ETC. SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE PER DSA IR 25–2 & IR M–4

SEE ARCHITECTURAL & STRUCTURAL PLANS FOR CONNECTION OF FIXTURE SUPPORT WIRES & BRACING WIRE CONNECTIONS TO ROOF FRAMING / STRUCTURE



3 TYPICAL LAY-IN FIXTURE MOUNTING DETAIL

SCALE: NONE



NOTE: ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LATERAL BRACING WHERE FIXTURE CANNOT SWING FREELY 45 DEGREES IN ANY DIRECTION WITHOUT HITTING ANY OBJECT. ALL LATERAL BRACING SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.

NOTE: ALL ELECTRICAL EQUIPMENT, CONDUIT, FIXTURES, ETC. SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.

SEE ARCHITECTURAL & STRUCTURAL PLANS FOR CONNECTION OF FIXTURE SUPPORT WIRES & BRACING WIRE CONNECTIONS TO ROOF FRAMING / STRUCTURE

1 FIXTURE TYPE "L6/L8" CEILING MOUNTING DETAIL

SCALE: NONE

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PROFESSIONAL SEALS

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

REGISTERED PROFESSIONAL ENGINEER CRAIG C. HOOD 15392 EXP. 6-30-27 ELECTRICAL STATE OF CALIFORNIA

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COUNTY SPEC NUMBER: -

COUNTY PROJECT NUMBER: P6T24008

COUNTY DWG NO | SHEET ___ OF ___

SHEET TITLE: LIGHTING FIXTURE DETAILS

SHEET NO: E-404

LITHONIA LIGHTING®

Catalog Number

Notes

Type

FEATURES & SPECIFICATIONS

INTENDED USE — Suitable for architectural applications where aesthetics and superior performance are required.

CONSTRUCTION — High-polish, injection-molded virgin acrylic panel, ultrasonically welded to eliminate visible hardware. Graduated depth of molded letters provides uniform light distribution on graphics. Standard housing finish is brushed aluminum.

Precision-molded, textured letters — 6" high with 3/4" stroke, with 100 ft viewing distance rating, based upon UL924 standard. Chevron indicator direction must be specified.

Recessed rough-in section constructed of 26-gauge, die-formed galvanized steel. Extruded aluminum housing trim mounts flush onto wall or ceiling.

Mounting canopy for top mount is constructed of extruded aluminum housing to match housing finish.

OPTICS — LEDs mounted on printed circuit board. The typical life of the exit LED lamp is 5 years, based on 24/7 operation.

Low energy consumption—1L 0 operation: only 2.3W for 120V single-face red signs; 7.7W for 120V single-face green signs. Non-emergency operation: only 1.5W for 120V single-face red signs; 1.2W for 120V single-face green sign.

ELECTRICAL — Dual voltage input capability (120/277V).

Sealed, maintenance-free nickel cadmium battery delivers 90 minutes capacity to lamp. Constant-current series charger, 24-hour recharge after 90-minute discharge.

Polarized battery connector simplifies installation and maintenance; prevents charger damage due to improper connection.

INSTALLATION — Recessed mount — rough-in section for back, ceiling or end mounting. Fits into minimum wall or ceiling opening 13-5/8" L x 4-1/2" W x 3-1/8" D.

Adjustable 5° hanger bars adapt mounting to any mounting to suspended ceilings or variable-sized framed openings. Trim ring has 3/4" variable depth adjustment to ensure flush fit against surface of wall or ceiling.

Plug-in wire connections and self-captive mounting screws for mounting panel/trim to rough-in section.

Top Mount (TM) — low-profile mounting canopy attaches exit to J-box. No rough-in section required.

LISTINGS — UL listed. Non-IC recessed mounting. Meets UL 924, NFPA 101 (current Life Safety Code), NEC, FCC Title 47, Part 15, Subpart B and OSHA illumination standards, and State of Minnesota requirements for less than 20W energy consumption.

Signature

Edge-Lit Exits

LRP

LED LAMPS

WARRANTY — 5-year limited warranty, including lamp (Battery is pro-rated). This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

ORDERING INFORMATION For shortest lead times, configure products using **bolded options.** **Example:** LRP 1 RMR LA 120/277 EL N

LRP						
Family	**Housing color**	**Number of faces**	**Letters/background**	**Directional indicators**[1]	**Input voltage**
LRP LED	**(blank)** Painted aluminum	1 Single face	R90 Red on white	**(blank)** None	**120/277** Dual voltage
	W White	2 Double face	**RC** Red on clear (single face only)	**LA** Left[2]	
	B Black		**RMR** Red on mirror (simulates mirrored background for double-face exits)	**RA** Right[2]	
	BZ Bronze		GW Green on white	**LRA** Left and right	
	BS Polished Brass[3]		**GC** Green on clear (single face only)	**DA** Double face[2]	
	U Unfinished		**GMR** Green on mirror (simulates mirrored background for double-face exits)		

Emergency operation	**Mounting**	**Item type**	**Options**[7]
(blank) AC only	**(blank)** Ceiling or back mount	**(blank)** Complete exit panel and rough-in section[5]	FI Fire alarm interface[8]
EL N Nickel cadmium battery	EM Recessed end mount	**PNL** Panel assembly only	F Flashing emergency operation (one flash/second)[9,5]
X2 Lamp boards wired on two separate circuits (specify 120V or 277V)[5]	TM Top mount[6]		

Accessories: *Order as separate items.*

- ELA R LURS 120/277 EL N — Single-face, red LED emergency rough-in section [1,10]
- ELA G LURS 120/277 EL N — Single-face, green LED emergency rough-in section [1,10]
- ELA R 2LRS 120/277 EL N — Double-face, red LED emergency rough-in section [1,10]
- ELA G 2LRS 120/277 EL N — Double-face, green LED emergency rough-in section [1,10]
- ELA LCRS — LED rough-in section (supplied standard with recessed exit unless PNL suffix is specified; order ELA LCRS only if needed for early installation). Available AC only with no options. [1]
- ELA LRS 277 X2 — LED rough-in section (supplied standard with recessed exit unless PNL suffix is specified; order ELA LRS 277 X2 only if needed for early installation). [1,5]
- ELA LRS 120 X2 — LED rough-in section (supplied standard with recessed exit unless PNL suffix is specified; order ELA LRS 120 X2 only if needed for early installation). [1,5]
- ELA U512 — 12" pendant-mount kit (Top mount exits only). Mounting canopy is brushed aluminum. To order white or black canopy, add W or B to catalog number. Example: ELA W U512. To order 24" or 36" lengths, add 24 or 36 to catalog number. Example: ELA U524. See spec sheet ELA Stem(ft).

Notes
1 Not available with EM option.
2 See chart on back for more information.
3 Only available with single face.
4 Only available with double face.
5 Not available with top mount exits (TM) or EL N operation.
6 No Rough-in section required. Attaches directly to J-box. Only available with AC operation.
7 When ordering recessed rough-in separately, all options must be included with rough-in nomenclature. Example: ELA LRS 277 X2 EL.
8 Choice of F or FI, not available with both. Not available with top mount exits.
9 Must select EL N option.
10 Rough-in supplied standard with exit unless PNL suffix is specified. Order separately only if needed for early installation.

gotham | I V O™

Luminaire Type:

Catalog Number:

IVO™ 4" Round Shallow Recessed Downlight
New Construction & Remodel

TRIM STYLES AND COLORS

Open

New construction housing shown. Please see pages 5-6 for full set of dimensional drawings.

Flange Styles

Flanged

Flangeless

Reflector Colors

QUICK SPECIFICATIONS

Feature Set

- Ultra Shallow recessed downlight fits in plenums as small as 2.5-inches above ceiling
- Perfect Color™ consistency within ½-step MacAdam Ellipse
- Exceptional color rendering with 80 CRI, 90 CRI, or 95 CRI minimum
- Boundary Fin™ optical design delivers low brightness apertures for a comfortable lighting experience
- 60° cutoff to source and source image
- Patent pending optics available in three batwing distributions deliver exceptional lighting uniformity
- Field adaptable with interchangeable optics and trims
- Up to 90% lumen maintenance at 55,000 hours
- Fixtures are wet location, covered ceiling

Distribution / Beam Angles

Superior Performance*

Nominal Lumens	055LM	071LM	10LM	15LM	20LM	25LM	30LM
Delivered Lumens	827	777	1050	1475	1929	2375	2797
Wattage	5.3	7.8	10.5	15.7	22.4	35.0	30.7
Lumens per Watt	99	100	101	94	86	95	91

*Based on 3000K 80CRI LM-84 LSS

PRODUCT FAMILY

IVO 4" Round Shallow Product Family

Lensed Wall Wash

PROJECT INFORMATION Job Name / Fixture Type / Catalog Number / Approved by

MILLENIUM STRETCH™
MLHA8 SERIES

PRODUCT FEATURES:
- 8" linear surface mount luminaire with multiple length options
- Extruded aluminum housing with decorative end caps
- Low-profile –ADA compliant
- Peace of Mind Guarantee® against breakage

SPECIFICATIONS

HOUSING: Extruded marine grade aluminum body with die-cast aluminum end caps. Closed cell EPDM and silicone gasketing along lens channel and end caps. TGIC polyester powder coat finished – 5-step pre-treatment. See Ordering Information for available finishes.

OPTIC: UV-Stabilized, high-efficiency diffused polycarbonate with smooth exterior and linear prismatic interior. Lens securely positioned in body channels and endcaps, locked into place with concealed tamper-resistant Torx® T-20 with center pin fasteners.

END CAPS: Marine grade die-cast aluminum. Three styles available: Flat, Rounded and Reveal. Conduit and "Wiremold" ready® knockouts visible only from interior of end cap (Flat and Rounded styles only).

HARDWARE: Stainless steel, tamper-resistant Torx T-20 center pin fasteners secure lens in housing body's lens channel (four on 24" and 48" lengths; eight on 96" length).

LED MODULE: Serviceable mid-power LED array. Minimum 80 CRI standard (80+/-), consult factory for optional 90CRI (90+/-50). Maximum three-step MacAdam ellipse variation. See Ordering Information for available color temperature options.

DRIVER: 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant-current driver (<±20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities; 0.4mA maximum source current.

CONTROLS: TekLink™ TLSO is an independent lighting control system integral to the luminaire, featuring its own embedded occupancy sensor and adjustable time-out/dimming settings and a closed-loop daylight harvesting function for maximum energy savings. TekLink™ TL100 is a centralized, wired zonal occupancy and closed-loop daylight harvesting control system. TL100 controllers are standalone devices and are ordered separately from the luminaire(s). Click here for specifications. MS Option: Optional embedded microwave motion sensor mounted behind the diffuser. Remote adjustment for dim level, timeout period and sensor sensitivity settings. Factory default is 30% dimming and 20min. timeout. Sensor operates at 5.8 GHz (continuous-wave radar) and provides 360° coverage at various mounting heights and coverage areas. Available with compatible third party controls. To see the full list of compatible controls, click here.

INSTALLATION: Surface ceiling, vertical or horizontal wall, corner mount (CMB) or suspended pendant mounting (PM). Standard four-point mounting (24" length), six-point mounting (48" length) or twelve-point mounting (96" length) required for Peace of Mind Guarantee®. Suitable for -30°C to 40°C ambient environments, unless otherwise noted.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an EAC/ISO17025 accredited laboratory. For additional photometric information, go to www.kenall.com.

WARRANTY: Limited ten (10) year LED warranty. Peace of Mind Guarantee against breakage.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location Installations. IP64 rating per IEC60598 – ceiling mount. Corner, horizontal wall and pendant mount installation – Damp Location only. ADA compliant. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08. Build America, Buy America Act compliant.

ORDERING INFORMATION (Ex: MLHA8-48-F-MW-PP-4SL40K-DCC-DV-LEL)

Model	Length	End Cap	Finish	Lens	Lamp Code	Driver Type	Voltage	Options	Accessories	TekLink	Controls Kit
MLHA8				PP		DCC					< >

Length
24 2'
48 4'
96 Two 4' (factory connected)

End Caps
F Flat
R Rounded
RV Reveal

Finish
LG Light Gray
MB Matte Black
MW Matte White
CC Custom Color (Consult Factory)

Lens
PP Pearlescent Polycarbonate

Lamp Code
2' Lengths
2SL35K 2'L Warm 3500K LED
2SL40K 2'L Warm 4000K LED
2SL50K 2'L Warm 5000K LED

4' Lengths
4SL35K 4'L Warm 3500K LED
4SL40K 4'L Warm 4000K LED
4SL50K 4'L Warm 5000K LED
6FL35K 6'L Warm 3500K LED
6FL40K 6'L Warm 4000K LED
6FL50K 6'L Warm 5000K LED
9OL35K 9'L Warm 3500K LED
9OL40K 9'L Warm 4000K LED
9OL50K 9'L Warm 5000K LED

Driver Type
DCC 0-10V Dimming Constant Current

Input Voltage
DV 120-277VAC, 50/60Hz
347 347VAC, 60Hz

Options
LEL* Integral 10W Emergency Battery Backup (4' length only, 45L max, CPC minimum operating temperature)
CDF Captive Diffuser Fasteners
DL Damp Location (Interior use NO gasketing)
FS Single Fuse & Holder
NAT Natatorium Environment Option
PH Phillips Head Fasteners
PM1 Pendant Mount (Max. 3/8NPT stems by others; damp only)
MS* Motion Sensor
NLW* 2700K White LED Night Light
NLA* Amber LED Night Light

Accessories
CMB† Corner Mount Bracket (Must be ordered with CL Option)

TekLink
TLSO* TLSO Control System (Click here for specifications)
TL100 TL100 Control System (Click here for specifications)

Please consult Kenall Applications when ordering controls. Mounting heights above 14' may require alternate sensing technology.

Controls Kit
< > Factory Assigned Internal Code

* n/a with 347V
† PM and CMB not available in conjunction
n/a with with MS or CMB options.
n/a with 96" length. n/a with 347V.

MLHA8-050725

LITHONIA LIGHTING®

Catalog Number

Notes

Type

DIGITAL NAVIGATION
Ordering Tree nLight Platform Controls Photometrics Performance Data

FEATURES & SPECIFICATIONS

INTENDED USE — ENVX is a high-performance recessed ambient solution suitable for all application types. Designed to improve quality of light, ENVX provides performance, configurability, delivery, value and style. A typically configured ENVX features a **Unified Glare Rating** (UGR) starting at 17, UGR data available on page 9. 4' designs (Hourglass, Hourglass with Center Spine, and Parabolic Louvers). **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — ENVX is engineered to have a **curved luminous surface** to reduce glare while increasing its volumetric class. Its smooth acrylic lens, and direct-lit one optic technology, allow for **no individual LED images to be visible** to the occupants in the space. ENVX seamless transition zones permit for the **uniform illumination across the lens** to be visually comfortable to look into. Built with non-exposed corners and seamless flanges within the 7-Grid, ENVX is a single, self-contained fixture with a steel housing and plastic end caps **not requiring onsite assembly** for installation outside of additional accessories. The power supply and circuit board of the luminaire is integral to the unit. ENVX allows for design flexibility by incorporating a center element, if chosen, without compromising its fully luminous aperture.

ENVX has **IP5X rated** sealed optics to prevent dust and bugs from protruding inside of the fixture. All the painted components within the luminaire have **paint particles of 31um or larger, painted to a thickness of no less than 3 mils** for even coverage. Before delivery, ENVX undergoes component verification by means of visual scanning equipment to ensure proper CCT, Lumens, and CRI; in addition to the optical scanning to detect visual defects for the most optimal quality assurance.

ELECTRICAL — ENVX delivers performance superiority with long-life LEDs and unique over optics that when coupled with high-efficiency drivers, provide superior quantity of illumination for extended service life. ENVX offers **80% L20 lumen maintenance at 60,000 hours** and color variation within **3-step MacAdam ellipse ranging from 3000K-5000K.**

ENVX offers 8 different lumen packages ranging from 1500 to 7200 lumen with certifications in DLC Standard and/or DLC Premium allowing for rebates and energy-savings solutions.

This fixture offers flicker free dimming with capability to dim to either 10%, 1% or .1%.

Driver disconnect provided where required to comply with US and Canadian codes.

SENSOR — ENVX features multiple integral sensor types without compromising the range and aesthetic of the fixture. Integrated sensor (individual control): Sensor Switch MD2/RDCX (Passive infrared (PIR)) or MSDPTDCX (PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space. See page 4 for more details on the integrated sensor.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, Integrated Smart Sensor (nLight Air Wireless Platforms): The RSTO sensor is has the ability to communicate over the wireless nLight control platform. See page 5 for more details on the Integrated Smart Sensor.

INSTALLATION — ENVX fits into standard 15/16" and narrow 9/16" T-grid ceiling systems. Suitable for damp location. For recessed mounting in hard ceiling applications, Drywall Grid Adapters (DGA) are available as an accessory. See Accessories section.

LISTINGS — CSA certified to meet US and Canadian standards. Intended for indoor use only. **Damp location listed. IC rated. IP5X rated. Tested in accordance with ISO 14644-1; suitable for use in ISO Class 5–9 positive and negative pressure clean rooms.**

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT — BAA – Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BABA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual Performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

ENVX Series LED

ENVX™

1'x4' LED, 2'x2' LED and 2'x4' LED

HRG

HRGC

HRGL

Specifications

Length: 23.75 (60.3), 47.75 (121.4), 47.75 (121.4)
Width: 23.75 (60.3), 23.75 (60.3), 11.75 (29.7)
Depth: 3.625 (9.6), 3.625 (9.6), 3.125 (7.8)
All dimensions are inches (centimeters) unless otherwise specified.

Weights

2X2: 15 lbs
2X4: 22 lbs
1X4: 17 lbs

Embed nLight controls today. Prepare for tomorrow.

Now	Tomorrow
User-friendly install	Scalability
Enhanced energy savings	Space configuration
Code compliance	Future-ready

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

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TODD A JESPERSEN AIA
PRINCIPAL-IN-CHARGE

JONATHAN D LEE AIA
PROJECT MANAGER

4 LIGHT FIXTURE TYPE E1
SCALE: NONE

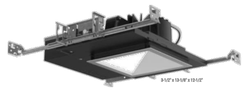
gotham | I V O™

Luminaire Type:

Catalog Number:

IVO™ 6" Square Shallow Recessed Wall Wash
New Construction & Remodel

TRIM STYLES AND COLORS



New construction housing shown. Please see pages 5-6 for full set of dimensional drawings.

Flange Styles

Flanged

Flangeless

Flangeless In Millwork

Reflector Colors

QUICK SPECIFICATIONS

Feature Set

- Ultra Shallow recessed downlight fits in plenums as small as 3.5-inches above ceiling
- Perfect Color™ consistency within ½-step MacAdam Ellipse
- Exceptional color rendering with 80 CRI, 90 CRI, or 95 CRI minimum
- Proprietary optical design delivers exceptional uniformity ceiling to floor
- Up to 90% lumen maintenance at 55,000 hours
- Wet Location standard, covered ceiling
- ICAT is Spray Foam Compatible
- ENERGY STAR® Certified product

Distribution / Beam Angles

Superior Performance*

Nominal Lumens	055LM	071LM	10LM	15LM	20LM	25LM	30LM	40LM	45LM	50LM
Delivered Lumens	392	524	665	964	1280	1607	1942	2173	2480	2792	3106
Wattage	5.1	7.5	9.2	13.3	17.5	22.1	26.6	31.8	37.2	43.1	49.9
Lumens per Watt	69	70	72	72	73	73	73	68	67	65	62

*Based on 3000K 80CRI LM-84 LSS
** 279LM option add 3.8 watts

PRODUCT FAMILY

IVO 6" Square Product Family

Downlight

Lensed WW

Surface Cylinder

Pendant Cylinder

Wall Cylinder

Wall Adjustable Cylinder

5 LIGHT FIXTURE TYPE WW
SCALE: NONE

gotham | I V O™

IVO™ 4" Round Shallow Recessed Downlight
New Construction & Remodel

Luminaire Type:

Catalog Number:

EXAMPLE: IVO4S D 10LM 35K 80CRI MW3 MINI10 MVOLT ZT NCH P AR LSS F

Series	Function	Lumen Packages	Kelvin Temperature	Color Rendering Index[6]	Distribution	Dimming Level
IVO4S Round Shallow Recessed	D Downlight	055LM[1] 500 Lumens	27K 2700K	80CRI 80+ CRI	MD Medium (0.8 x mh, 60°)	MINI10 Constant current, dimming to 10%
		071LM 750 Lumens	30K 3000K	90CRI 90+ CRI	MWD Medium Wide (1.0 x mh, 65°)	MIN1 Constant current, dimming to 1%
		10LM 1000 Lumens	35K 3500K		WD Wide (1.2 x mh, 75°)	DARK Constant current, dimming to 0.1%
		15LM 1500 Lumens	40K 4000K			
		20LM 2000 Lumens	50K 5000K			
		25LM 2500 Lumens				
		30LM 3000 Lumens				

Voltage	Control Input	Emergency Option	Housing Style	Options
MVOLT 120V-277V	ZT* 0-10V Generic.	(Blank) No Emergency	NCH New Construction Housing	SF* Single Fuse. Specify 120 or 277.
120 120V	EZT 0-10V eldoLED.	EWHN[7] 6W integral emergency battery, CA Title 20 compliant emergency battery pack with remote test switch. 3000 lumen max.	ICAT™ IC/Airtight Housing (new construction only). 2000LM max.	WL Wet Location
277 277V	ELP* Electronic line voltage. Forward phase-cut (120V only) (DOES with ELDX) (remote device management).		CP[8,9] Chicago Plenum (new construction only). 2000LM max.	
347[1] 347V	DMX* DALI Compatible.		RM Remodel/Install from below. Not available with Emergency Pack options. 2500LM max.	
	DALI* DALI Compatible.			
	NLIGHT Embedded wired controls by nLight			
	NLTAIR2 Embedded wireless controls by nLight			
	NLIGHTER Embedded wired controls by nLight with UL924 listed emergency operation			
	NLTAIRE M2 Embedded wireless controls by nLight with UL924 listed emergency operation			

Trim Style	Trim Color	Trim Finish	Flange Option
P Open Reflector	AR Clear Anodized	LD Matte Diffuse	F Self Flanged (color matches trim)
	BR Black Anodized	LS Specular	FL Flangeless (Drywall)
	GR Gold Anodized	LSS Semi-Specular	FBL[10] Flange Only Black
	PR Pewter Anodized		FWH[10] Flange Only White
	WTR Wheat Anodized		FRAZTB[10] Flange Only RAL
	WHR[4,5] White Gloss (painted)		FCPC Flange Only Custom Paint Color
	WBR[4,5] Soft White Matte (painted)		
	WRAME[4] White Gloss with Anti-Microbial (painted)		
	BZR[4,5] Dark Bronze Gloss (painted)		
	TRAZTB[4,5,9] Trim RAL # (TBD for pricing only)		
	TCPC* Trim Custom Paint Color		

ACCESSORIES — order as separate catalog numbers (shipped separately)
IVO4SOPTIC D MD U Field Replaceable Optic, Medium Distribution
IVO4SOPTIC D MWD U Field Replaceable Optic, Medium Wide Distribution
IVO4SOPTIC D WD U Field Replaceable Optics, Wide Distribution

ORDERING NOTES

1. 055LM only available with ELV or ZT. Not available with 347V.
2. 90K CCT is not available with 80CRI, 35K, 40K or 50K is not available with 90CRI.
3. 347 only available with ZT or MRM3 or MRM10. Not available with nLight devices or Emergency Options.
4. ZT is not available with DARK.
5. Only available with MRM1
6. DMX and DALI are not available with MRM1 or MRM10.
7. EWHN is not available with DMX, NLIGHT, NLIGHTER, or NLTAIRE M2 or with RM housing or 25LM or 30LM.
8. RM with SF is not valid with DMX or nLight.
9. Not available with Optical Finish.
10. Replace with applicable RAL number and finish when ready to order. See BAL BROCHURE for available color options.
11. For use with different reflector flange colors only (i.e. AR, BZR, GR, PR, WTR, WR, WRAME options). Not applicable with SH (black reflector) or FL (flangeless) option.
12. For use with different reflector flange colors only (i.e. AR, BR, BZR, GR, PR, WTR options). Not applicable with WR, WRAME (white reflector) or FL (flangeless) option.
13. Corrosion Resistant Powder Coat.
14. CP and ICAT not available with 25LM or 30LM.

3 LIGHT FIXTURE TYPE D1
SCALE: NONE

For additional photometry, go to www.kenall.com

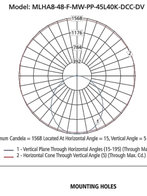
MILLENIUM STRETCH™
MLHA8 SERIES

PERFORMANCE

Length	Lamp Type	Initial Delivered Lumens @ 25°C	Efficacy (lm/W)	Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
2'	2SL35K	2,379	95	25	100	150,000
	2SL40K	2,536	101	25	100	150,000
	2SL50K	2,536	101	25	100	150,000
4'	4SL35K	4,758	97	49	100	150,000
	4SL40K	5,072	104	49	100	150,000
	4SL50K	5,072	104	49	100	150,000
	6FL35K	7,284	100	73	75	150,000
	6FL40K	7,765	106	73	75	150,000
	6FL50K	7,765	106	73	75	150,000
	9OL35K	9,252	94	98	100	150,000
	9OL40K	9,864	101	98	100	150,000
	9OL50K	9,864	101	98	100	150,000

Visit www.kenall.com for IES files and additional information. Information is subject to change without notice.

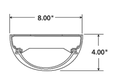
Model: MLHA8-48-F-MW-PP-4SL40K-DCC-DV



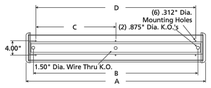
Maximum Candela = 1568 Located At Horizontal Angle = 15, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. C&L)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. C&L)

DIMENSIONAL DATA

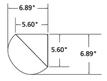
CROSS SECTION/DETAILS



MOUNTING HOLES



CORNER MOUNT BRACKET



Nominal Two Foot Fixture Legend				
End Cap	A	B	C	D
R	26.526	22.312	N/A	21.000
F	25.308	22.312	N/A	21.000
RV	28.632	22.312	N/A	21.000

Nominal Four Foot Fixture Legend				
End Cap	A	B	C	D
R	50.526	46.312	22.500	45.000
F	49.308	46.312	22.500	45.000
RV	52.632	46.312	22.500	45.000

MLHA8-050725

2 LIGHT FIXTURE TYPE ST
SCALE: NONE

ENVX Spec Ambient

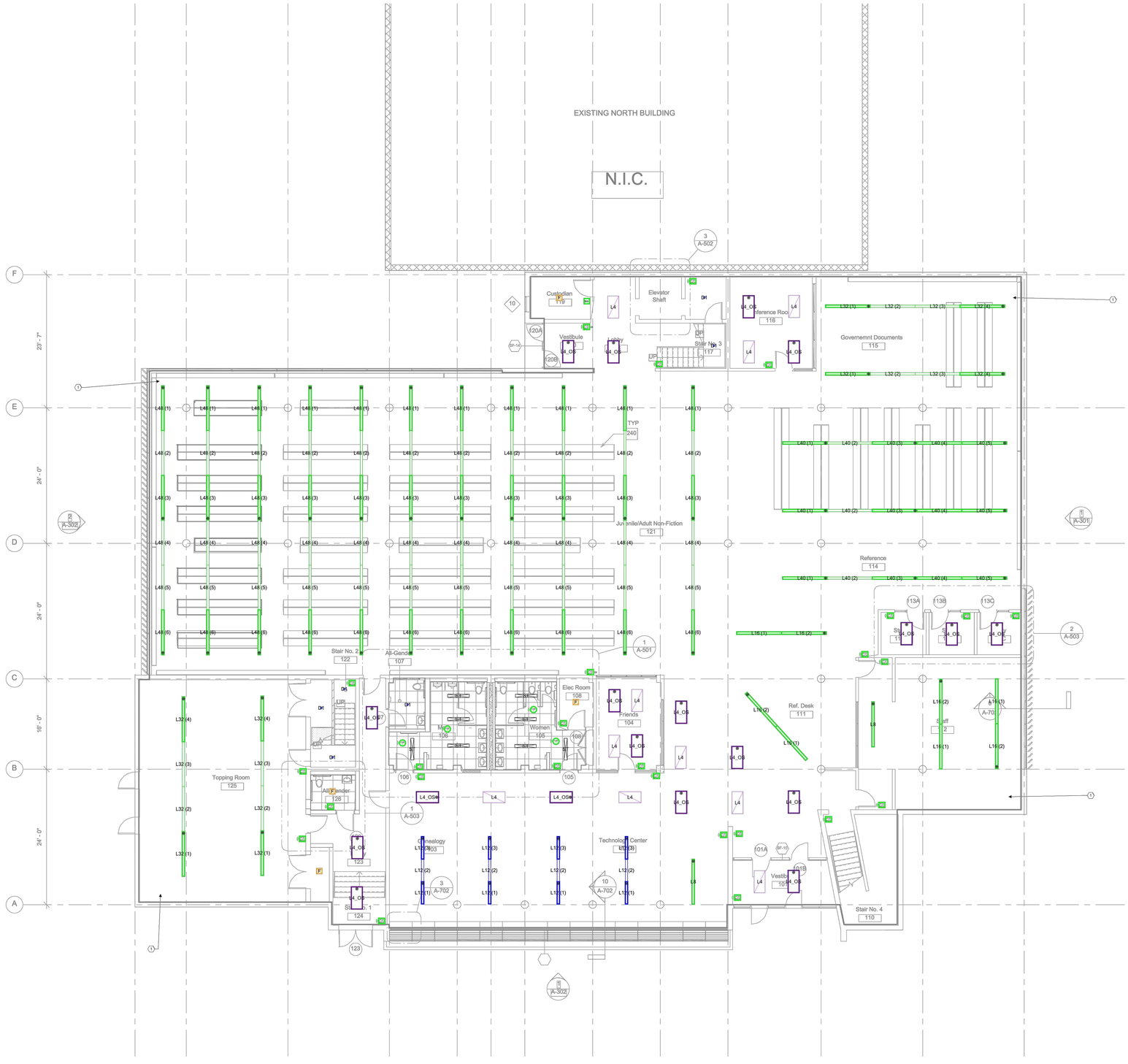
A+ Capable options indicated by this color background.

ORDERING INFORMATION **Example:** ENVX 2X2 HRG 3300LM 80CRI 40K MINI1 EZT MVOLT

Series	Fixture Dimension	Fixture Style	Lumens Output	CRI	Color Temperature	Minimum Dimming Level
ENVX Spec Ambient LED Troffer	1x4 1'x4'	HRG Hourglass	1500LM Nominal 1500 lumens	80CRI 80 CRI	30K 3000K	DARK Constant current, dimming to <1% ‡
		HRGC Hourglass with Center Spine	2000LM Nominal 2000 lumens	90CRI 90 CRI	35K 3500K	MIN1 Constant current, dimming to 1%
		HRGL Hourglass With Blade Louver ‡	3000LM Nominal 3000 lumens		40K 4000K	MIN10 Constant current, dimming to 10%
	2x2 2'x2'		4000LM Nominal 4000 lumens		50K 5000K	
			4800LM Nominal 4800 lumens			
	2x4 2'x4'		6000LM Nominal 6000 lumens			
			7200LM Nominal 7200 lumens			

Dimming	Voltage	Step Level Dimming	Emergency Option
EZT eldoLED 0-10V Dimming ‡	MVOLT 120-277V	(blank) no step level dimming	ETW Emergency Battery Pack, 7W, CA Title 20 Noncompliant ‡
ZT Generic 0-10V ‡	120 120V	SLD Step-level dimming ‡	EVWLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS ‡
ECO Lutron Ecosystem interface ‡	277 277V		EVWLCP EM Self-Diagnostic battery pack, 15W Constant Power, Certified in CA Title 20 MAEDBS ‡
DALI DALI ‡	347 347V ‡		GTD Generator Transfer Device ‡

Controls Input	Sensor
(blank) No Control Input	(blank) No Sensor or Control Input



1 FIRST FLOOR LIGHTING CONTROL PLAN

SCALE: NONE

PRODUCT LEGEND PAGE 1		
39	rPOD BADX	$1 AIR RPODBA DX XX G2 nLight Preset Wall control, Raise/Lower Dimming, Generation Two
3	rPOD BA2P DX	$2 AIR RPODBA 2P DX XX G2 nLight Preset Wall control, 2-Pole, Raise/Lower Dimming, Generation Two
6	rCMB 7	OS1 AIR RCMSB 7 G2 Ceiling Mount Battery Powered Sensor, Mini-Low Bay 360° Lens, Generation Two
2	$XA	SO2 WSXA XX Wall Switch Sensor

KEYNOTES

1. NO DEFINED PRIMARY OR SECONDARY DAYLIT ZONES. CONTROLS SUBJECT TO CHANGE IF DAYLITE ZONES PROVIDED.

Addendum No. 1

PERMIT SUBMITTAL

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

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CONSULTING ELECTRICAL ENGINEERS
858 East Front Street
Ventura, California 93001
Phone (805) 641-4012
Fax (805) 641-0450
www.choodassociates.com

PROFESSIONAL SEALS

PERMIT APPROVAL STAMP

PERMIT NO BP25-02229

NO	REVISION	DATE
1	OWNER CHANGES	08/11/25
2	PLAN REVIEW CORRECTIONS	09/08/25
3	OWNER CHANGES	12/09/25

PUBLIC WORKS PROJECT MANAGER

PRINCINPAL-IN-CHARGE
CRAIG HOOD, P.E.

DRAWN BY	CHECKED BY
ANGEL MONZON	CRAIG HOOD, P.E.
ENGINEER'S JOB NO 23-438	DATE 12/09/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER
–

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE
FIRST FLOOR LIGHTING CONTROL PLAN

SHEET NO
E-406

PRODUCT LEGEND PAGE 1		
39	rPOD BADX	$1 AIR RPODBA DX XX G2 nLight Preset Wall control, Raise/Lower Dimming, Generation Two
3	rPOD BA2P DX	$2 AIR RPODBA 2P DX XX G2 nLight Preset Wall control, 2-Pole, Raise/Lower Dimming, Generation Two
6	rCMB 7	OS1 AIR RCMSB 7 G2 Ceiling Mount Battery Powered Sensor, Mini-Low Bay 360° Lens, Generation Two
2	$XA	SO2 WSXA XX Wall Switch Sensor

1 SECOND FLOOR LIGHTING CONTROL PLAN
SCALE: NONE

Addendum No. 1

PERMIT SUBMITTAL

COUNTY of VENTURA Library

PUBLIC WORKS VENTURA COUNTY

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

C. HOOD & ASSOCIATES, INC.
CONSULTING ELECTRICAL ENGINEERS
858 East Front Street
Ventura, California 93001
Phone (805) 641-4012
Fax (805) 641-0450
www.choodassociates.com

PROFESSIONAL SEALS

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

REGISTERED PROFESSIONAL ENGINEER CRAIG C. HOOD 15392 EXP. 6-30-27 ELECTRICAL STATE OF CALIFORNIA

PERMIT APPROVAL STAMP

PERMIT NO **BP25-02229**

NO	REVISION	DATE
1		
2	OWNER CHANGES	08/11/25
3	PLAN REVIEW CORRECTIONS	09/08/25
4	OWNER CHANGES	12/09/25

PUBLIC WORKS PROJECT MANAGER

PRINCINPAL-IN-CHARGE
CRAIG HOOD, P.E.

DRAWN BY	CHECKED BY
ANGEL MONZON	CRAIG HOOD, P.E.
ENGINEER'S JOB NO 23-438	DATE 12/09/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

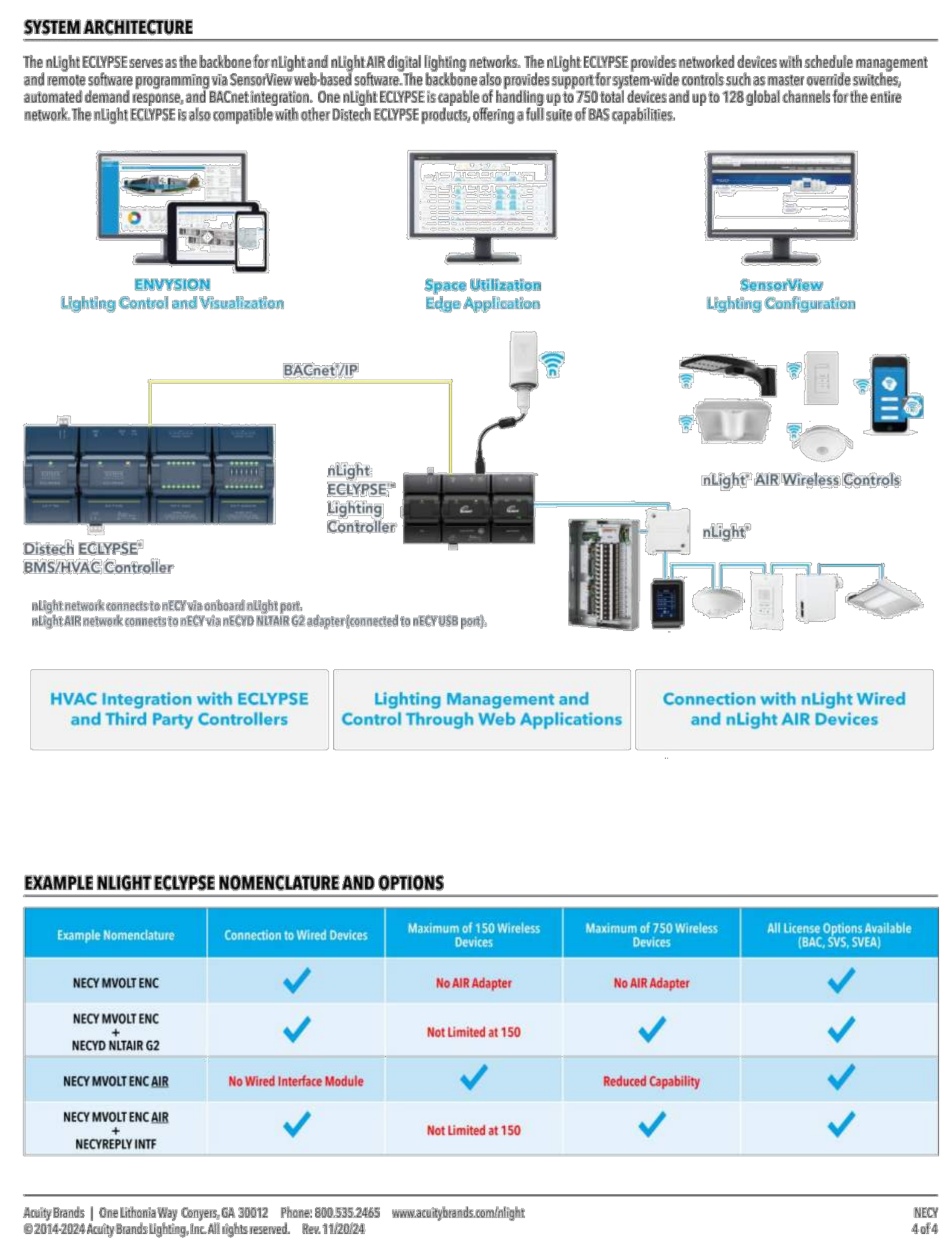
COUNTY SPEC NUMBER
–

COUNTY PROJECT NUMBER
P6T24008

COUNTY DWG NO | SHEET ____ OF ____

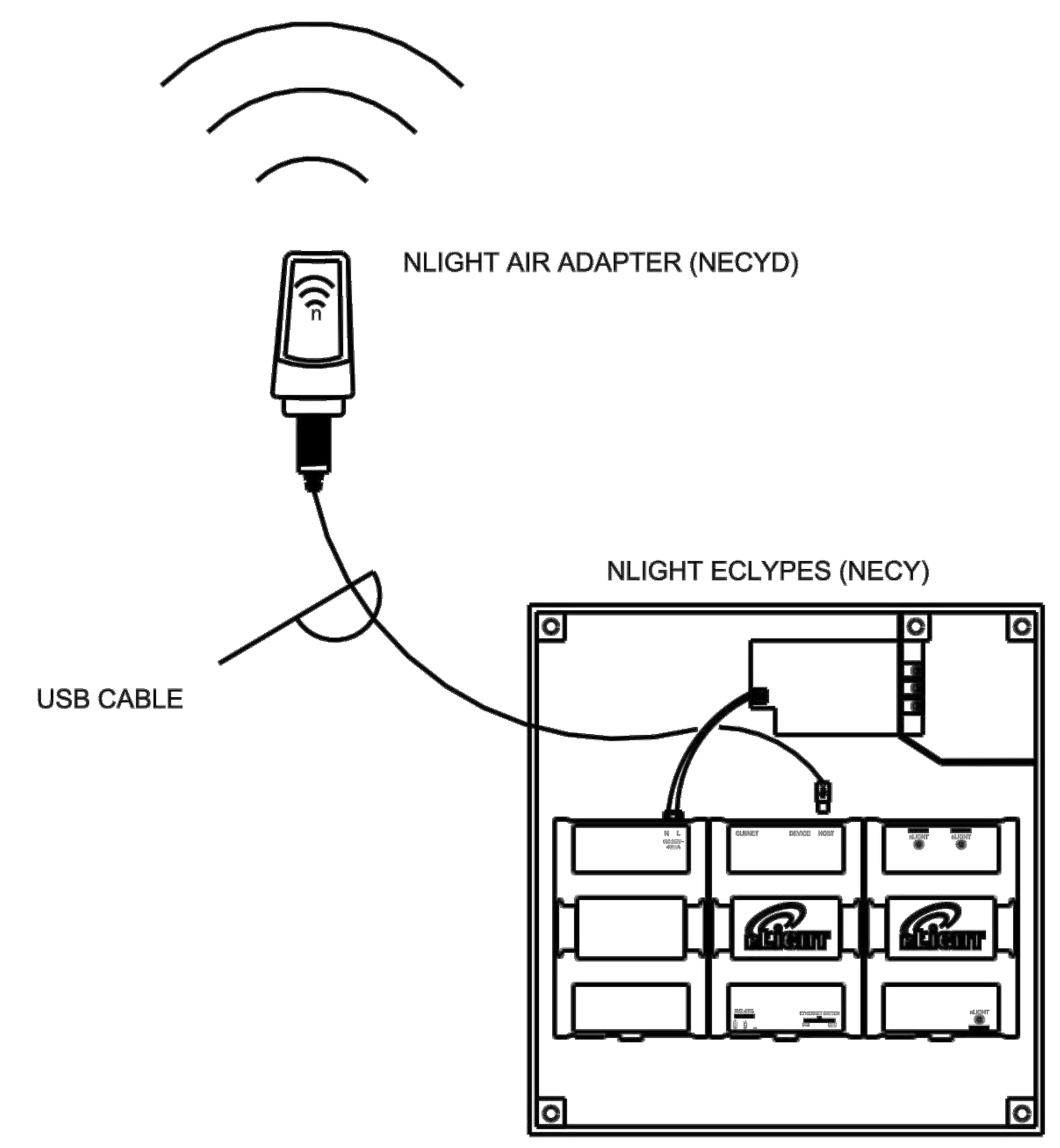
SHEET TITLE
SECOND FLOOR LIGHTING CONTROL PLAN

SHEET NO
E-407



LED - DIMMING ALLOWED PER LED DRIVER MANUFACTURER SPECIFICATIONS. VERIFY CONTROL TYPES WITH YOUR REGIONAL SUPPORT TEAM.

MOTORS - NO DIMMING ALLOWED. SWITCHED CONTROL SOURCE ONLY.



NLIGHT ECLYPSE (NECY) TO NLIGHT AIR ADAPTER (NECYD)

N.T.S.

SYSTEM NOTES

1. EACH ZONE OF CONTROL IS LIMITED TO 128 DEVICES.
2. EVERY FLOOR THAT CONTAINS NETWORKED NLIGHT AIR DEVICES REQUIRES ITS OWN DEDICATED NECY WITH NECYD.
3. DEVICES WITHIN INITIAL BROADCAST RANGE SHOULD BE WITHIN 100 FEET (TYPICAL FOR INDOOR CONSTRUCTION) OR WITHIN 1,000 FEET LINE-OF-SIGHT (TYPICAL FOR OUTDOOR CONSTRUCTION).
4. NLIGHT AIR ADAPTER SHOULD BE PLACED IN AN OPEN SPACE FOR BEST WIRELESS SIGNAL STRENGTH.

nLight AIR System Notes:

1. INITIAL NETWORKED NLIGHT AIR DEVICES SHOULD BE LOCATED WITHIN 100 FEET OF AN NLIGHT AIR ADAPTER IN INDOOR APPLICATIONS, UNLESS A SITE SURVEY HAS BEEN DONE TO CONFIRM OTHERWISE.
2. FOR MAXIMUM RANGE, THE NLIGHT AIR ADAPTER, WHICH IS USED FOR NETWORK COMMUNICATION, SHOULD BE MOUNTED IN AN OPEN INDOOR AREA (SUCH AS A CORRIDOR) AND SHOULD NOT BE LOCATED IN AN ENCLOSED SPACE (SUCH AS AN ELECTRICAL CLOSET).
3. A MAXIMUM 1,000-FOOT, LINE-OF-SIGHT DISTANCE SHOULD BE USED FOR OUTDOOR APPLICATIONS WHERE LINE OF SIGHT IS AVAILABLE BETWEEN THE NLIGHT AIR ADAPTER AND DEVICES RECEIVING AN INITIAL BROADCAST.
4. AN NLIGHT ECLYPSE WITH CONNECTED NLIGHT AIR ADAPTER CAN SUPPORT 750 DEVICES TOTAL. STANDALONE NLIGHT AIR GROUPS CAN CONTAIN UP TO 128 NLIGHT AIR DEVICES, AND ALL DEVICES SHOULD BE LOCATED WITHIN A MAXIMUM OF 1,000 FEET CLEAR LINE-OF-SIGHT OF EACH DEVICE WITHIN THE GROUP.
5. SOME CEILING MOUNTED NLIGHT AIR SENSORS WILL REQUIRE A CONNECTION TO A POWER SUPPLY OR NLIGHT AIR POWERPACK FOR LOW VOLTAGE POWER. SEE THE RCMS SPECIFICATION SHEETS FOR MORE INFORMATION. BATTERY POWERED SENSORS ARE AVAILABLE FOR INDOOR APPLICATIONS (RCMSB SENSORS). SEE THE RCMSB SPECIFICATION SHEETS FOR MORE INFORMATION.
6. SOME BATTERY POWERED NLIGHT AIR SWITCHES AND CEILING MOUNTED SENSORS (RPODB AND RCMSB SERIES) INCLUDE AN INTERNAL BATTERY, RATED FOR A 10-YEAR LIFE EXPECTANCY. LINE-VOLTAGE POWERED SWITCHES ARE AVAILABLE. SEE THE RPOD SPECIFICATION SHEET FOR MORE INFORMATION ON AVAILABLE OPTIONS.
7. NLIGHT AIR DEVICES MUST BE PROGRAMMED THROUGH THE CLAIRITY PRO MOBILE APPLICATION BEFORE THEY CAN BE CONTROLLED OR NETWORKED TO AN NLIGHT ECLYPSE WITH CORRESPONDING NLIGHT AIR ADAPTER.

NETWORKED DESIGN NOTES:

1. THE RELIABILITY OF ALL WIRELESS SIGNALS ARE HEAVILY DEPENDANT ON DEVICE LOCATION.
2. PHYSICAL OBJECT INTERFERENCE (ESPECIALLY METAL AND LARGE BARRIERS) CAN INHIBIT NLIGHT AIR WIRELESS COMMUNICATION FROM LOCAL DEVICES REACHING THE NLIGHT AIR ADAPTER.
3. FOR OPTIMAL PERFORMANCE INSTALL THE NLIGHT AIR ADAPTER VERTICALLY IN A CENTRAL LOCATION, SUCH AS IN A CORRIDOR OR A SPACE WITH LITTLE OBSTRUCTION BETWEEN THE ADAPTER AND THE RECEIVING DEVICES IN ITS INITIAL BROADCAST RANGE.
4. THE NLIGHT AIR ADAPTER CABLE WILL ALLOW FOR MOUNTING UP TO 15' FROM THE NLIGHT ECLYPSE.
5. IF SITE CONDITIONS PREVENT UNOBSTRUCTED ACCESS, CONTACT LOCAL ACUITY BRANDS REPRESENTATIVE OR TECHNICAL SUPPORT.

LOCAL REP LOCATOR: https://www.acuitybrands.com/support/how-to-buy

ACUITY BRANDS TECH SUPPORT: (800) 535-2465

1 LIGHTING CONTROL WIRING DIAGRAMS

SCALE: NONE

General System Notes

ON DIGITAL SYSTEMS, ALL DEVICES TO BE CONNECTED IN A DAISY CHAIN PATTERN SO THAT THE FIRST AND LAST DEVICE IN THE CHAIN HAS AN OPEN PORT.

ON DIGITAL SYSTEMS, CONTRACTOR SHALL NOTE AND LABEL ADDRESS AND LOCATION OF EACH DEVICE ON THE SYSTEM ONE-LINE DIAGRAMS OR SYSTEM LAYOUT DRAWINGS AT TIME OF INSTALLATION.

ONE-LINE DIAGRAMS INDICATE THE REQUIRED GROUPING OF WIRES, NOT THE NUMBER OR SIZE OF CONDUITS.

WIRING SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL CODES, INCLUDING PROVISION OF EQUIPMENT GROUNDING AS REQUIRED BY THE NEC.

POWER CONDUCTORS SHALL BE SIZED PER THE NEC AMPACITY TABLES (ARTICLE 310), INCLUDING ADJUSTMENT FACTOR AND NEUTRAL CONDUCTOR REQUIREMENTS (FEED AND BRANCH NEUTRAL CONDUCTORS MUST BE COUNTED AS CURRENT CARRYING CONDUCTORS). RUN SEPARATE NEUTRAL CONDUCTORS FOR EACH DIMMED LOAD CIRCUIT.

FOR 0-10VDC DIMMING SYSTEMS, VIOLET AND GRAY CONDUCTORS ARE FOR 0-10VDC LOW VOLTAGE TERMINATIONS ONLY. NEVER TERMINATE LINE VOLTAGE (120/230/277VAC) TO VIOLET AND GRAY.

CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL TERMINATIONS. NO SPLICES ARE PERMITTED IN CONTROL WIRING.

POWER AND CONTROL CONDUCTORS MUST NOT SHARE THE SAME RACEWAY OR CONDUIT.

LIGHTING CONTROL EQUIPMENT MUST BE INSTALLED, MAINTAINED, AND OPERATED IN AN "OFFICE CLEAN" DRY ENVIRONMENT, INDOOR DRY LOCATIONS ONLY, 10% - 90% RELATIVE HUMIDITY; AMBIENT TEMPERATURE 0°- 40°C (32°- 104°F) - 0°- 35°C (32°- 95°F) RECOMMENDED.

SENSORS IN ELECTRICAL/MECHANICAL LOCATIONS NEED TO BE VERIFIED WITH AUTHORITY HAVING JURISDICTION. REFER TO NEC 110.26.D.

RELAY AND DIMMER PANEL SCHEDULES SHOULD CONTAIN BREAKER PANEL INPUTS AS WELL AS ZONES/AREAS CONTROLLED.

VERIFY MAXIMUM CABLE LENGTHS BASED ON CONTROL SYSTEM. MANUFACTURER IS NOT RESPONSIBLE FOR SYSTEMS EXCEEDING CABLING PARAMETERS.

CAT. 5 CABLE MUST BE INSTALLED AT LEAST 12 INCHES FROM ALL LINE VOLTAGE CONDUCTORS EXCEPT TO CROSS OR MAKE TERMINATIONS. CAT. 5 CABLE MUST BE KEPT AWAY FROM ALL EMF DEVICES SUCH AS BALLASTS OR TRANSFORMERS.

nLight System Notes

EVERY NLIGHT ENABLED DEVICE (INCLUDING NLIGHT EANABLED FIXTURES) IS FURNISHED WITH (1) PERMANENTLY ADHERED ID TAG AND (1) MATCHING, PARTIALLY ADHERED ID TAG TO BE PLACED ON THE RISER DIAGRAM SHEET, OR THE LIGHTING CONTROL LAYOUT SHEET, PROVIDED AS PART OF AN NLIGHT SUBMITTAL. THIS SHALL BE DONE DURING INSTALLATION AND PRIOR TO FACTORY STARTUP. FAILURE TO COMPLY MAY RESULT IN STARTUP DELAYS AND ADDITIONAL COSTS AT THE CONTRACTOR'S EXPENSE. DO NOT PLACE DEVICE ID STICKERS ON FLOOR PLAN UNLESS REQUIRED TO EXECUTE NFLOORPLAN SERVICES, REFERENCE NFLOORPLAN SERVICE NOTES ON THIS SHEET FOR SPECIFIC REQUIREMENTS.

ONE RELAY PACK OR NLIGHT ENABLED FIXTURE IS NEEDED PER CIRCUIT/ZONE TO BE CONTROLLED AND CAN RESIDE WITHIN SENSORS, WALLPODS, OR RELAY PACKS. POWER PACK PLACEMENT ON DRAWINGS IS FOR COUNTING ONLY; FINAL PLACEMENT IS UP TO DISCRETION OF CONTRACTOR/ENGINEER. PLEASE RECHECK COUNTS TO VERIFY THE NUMBER OF RELAYS NEEDED TO SWITCH ALL DESIRED LOADS.

BRIDGES, RELAYS, POWER PACKS, WALLPODS, AND SENSORS ON DRAWINGS WERE PLACED WITH INFORMATION PROVIDED AT TIME OF DESIGN. ADDITIONAL BRIDGES AND/OR SENSORS MAY BE REQUIRED DEPENDING ON BUILDING CHANGES, FINAL PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVING HEIGHT/PLACEMENT.

THE LAYOUT OF THE NETWORK BACKBONE (BRIDGES AND GATEWAYS) HAS BEEN PLACED IN A SEPARATE TREE DIAGRAM AND NOT ON THE ACTUAL LAYOUT. FINAL PLACEMENT OF THE BRIDGE(S) AND GATEWAY(S) DEVICES SHALL BE AT THE CONTRACTOR/ENGINEER DISCRETION.

ALL DEVICES HAVE RJ-45 FEMALE PORTS. MAKING NETWORK CONTROL CABLES IS REQUIRED, T568B TERMINATIONS ARE RECOMMENDED. IT IS IMPERATIVE THAT ALL NETWORK CONTROL CABLES BE TESTED WITH A LAN CABLE TESTER TO VERIFY PROPER TERMINATIONS.

DAISY-CHAINED DEVICES SHOULD BE POWERED UP AND WORKING ON DEFAULT PROGRAMMING PRIOR TO CONNECTION TO BRIDGE OR GATEWAYS.

LOW VOLTAGE NETWORK CONTROL CABLE (CAT5/5E/6) RUNS FOR LOCAL ZONES, HOMERUNS AND BACKBONE SHOULD BE WHITE WITH CABLES LABELED.

CONTRACTOR TO VERIFY BLINK/DIAGNOSTIC CODES (VISIT HTTP://NLIGHTCONTROLS.COM/WP-CONTENT/UPLOADS/NLIGHT_POCKET_GUIDE.PDF) WHEN CONNECTING GATEWAYS/BRIDGES TO ZONES.

MAXIMUM CABLE LENGTH FROM START DEVICE TO END DEVICE IS 1500' INCLUDING HOMERUN TO BRIDGE DEVICE, IF PRESENT. MANUFACTURER IS NOT RESPONSIBLE FOR SYSTEMS EXCEEDING CABLING PARAMETERS.

Addendum No. 1

PERMIT SUBMITTAL

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

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PROFESSIONAL SEALS

PERMIT APPROVAL STAMP

PERMIT NO BP25-02229

NO	REVISION	DATE
△		
1	OWNER CHANGES	08/11/25
2	PLAN REVIEW CORRECTIONS	09/08/25
3	OWNER CHANGES	12/09/25

PUBLIC WORKS PROJECT MANAGER

PRINCINPAL-IN-CHARGE: CRAIG HOOD, P.E.

DRAWN BY: ANGEL MONZON | CHECKED BY: CRAIG HOOD, P.E.

ENGINEER'S JOB NO: 23-438 | DATE: 12/09/2025

PROJECT TITLE AND ADDRESS

E. P. FOSTER LIBRARY MODERNIZATION

651 E MAIN ST,
VENTURA, CA 93001

COUNTY SPEC NUMBER: -

COUNTY PROJECT NUMBER: P6T24008

COUNTY DWG NO | SHEET ____ OF ____

SHEET TITLE: LIGHTING CONTROL WIRING DIAGRAMS

SHEET NO: E-408 (3)

CREW/PSPEC NOTES:
- UG LINE EXT, NEW 277/480V 3Ø XFMR, NEW MAS (800A)
- CUSTOMER CONTACT INFO: CRAIG HOOD 805-641-4012
- SO#:201129696
- DEVIATION APPROVED 9/15/25 TO ADD GAS SWITCH INTO NON-COMPLIANT OVERLOADED VAULT.
- T/A/T- TRUCK ACCESS IS DOWN DEADEND ALLEY ACCESSIBLE FROM POLI ST NAD/OR BLOCKED OFF SECTION OF MAIN ST.
- PERMIT REQUIRED
- OUTAGE REQUIRED
- VEH & PED TC REQUIRED
- NIGHT WORK REQUIRED
- CUST TO CLEAR VEGETATION AROUND AREA FOR NEW TRANSFORMER
- CUSTOMER TO INSTALL ALL DUCT PER MAP
- CUSTOMER TO SCHEDULE INSPECTIONS WITH SCE UG INSPECTOR AS FOLLOWS:

CUSTOMER NOTES:
- CUST TO CLEAR VEGETATION AROUND AREA FOR NEW TRANSFORMER
- CONTACT DIG ALERT BEFORE YOU DIG TO MAP OUT ALL UNDERGROUND UTILITIES, DIAL 811
- CONTACT SCE UNDERGROUND QCI INSPECTOR, BRENNEN RHODES, @ 805-890-9245 AT LEAST 48 HOURS ADVANCE TO SCHEDULE A PRE-CONSTRUCTION MEETING BEFORE DIGGING AND TRENCHING.
- ALL CONDUIT AND STRUCTURES TO BE INSPECTED BY QCI INSPECTOR PRIOR TO AND AFTER BACKFILL.
- CONDUIT WILL NEED TO BE MANDRELLED FROM STRUCTURE TO STRUCTURE / PANEL.
- ALL BURIED CONDUIT WILL BE SCHEDULE 40 PVC.
- ALL CONDUIT BENDS / EXPOSED CONDUIT WILL BE SCHEDULE 80 PVC.
- 1/4" POLY PULL-ROPE TO BE INSTALLED IN CONDUIT PRIOR TO FINAL INSPECTION.
- QCI FINAL INSPECTION IS REQUIRED, AND ALL PANELS WILL NEED TO BE INSPECTED BY THE AHJ (AUTHORITY HAVING JURISDICTION) PRIOR TO SCE SCHEDULING THE PROJECT.

UNDERGROUND SERVICE ALERT
Contact USA
Dial 811 or 800-422-4133
www.digalert.org/contact
FOR UNDERGROUND LOCATING
TWO WORKING DAYS BEFORE YOU DIG
DIB: 03/22/24

SCE INSPECTOR
BRENNEN RHODES
CELL: 805-890-9245
BRENNEN.RHODES@SCE.COM
CONTACT SCE 48 HOURS IN ADVANCE FOR A PRE-CONSTRUCTION MEETING AND QR INSPECTION.

T.L.M. DATA: 5B11416

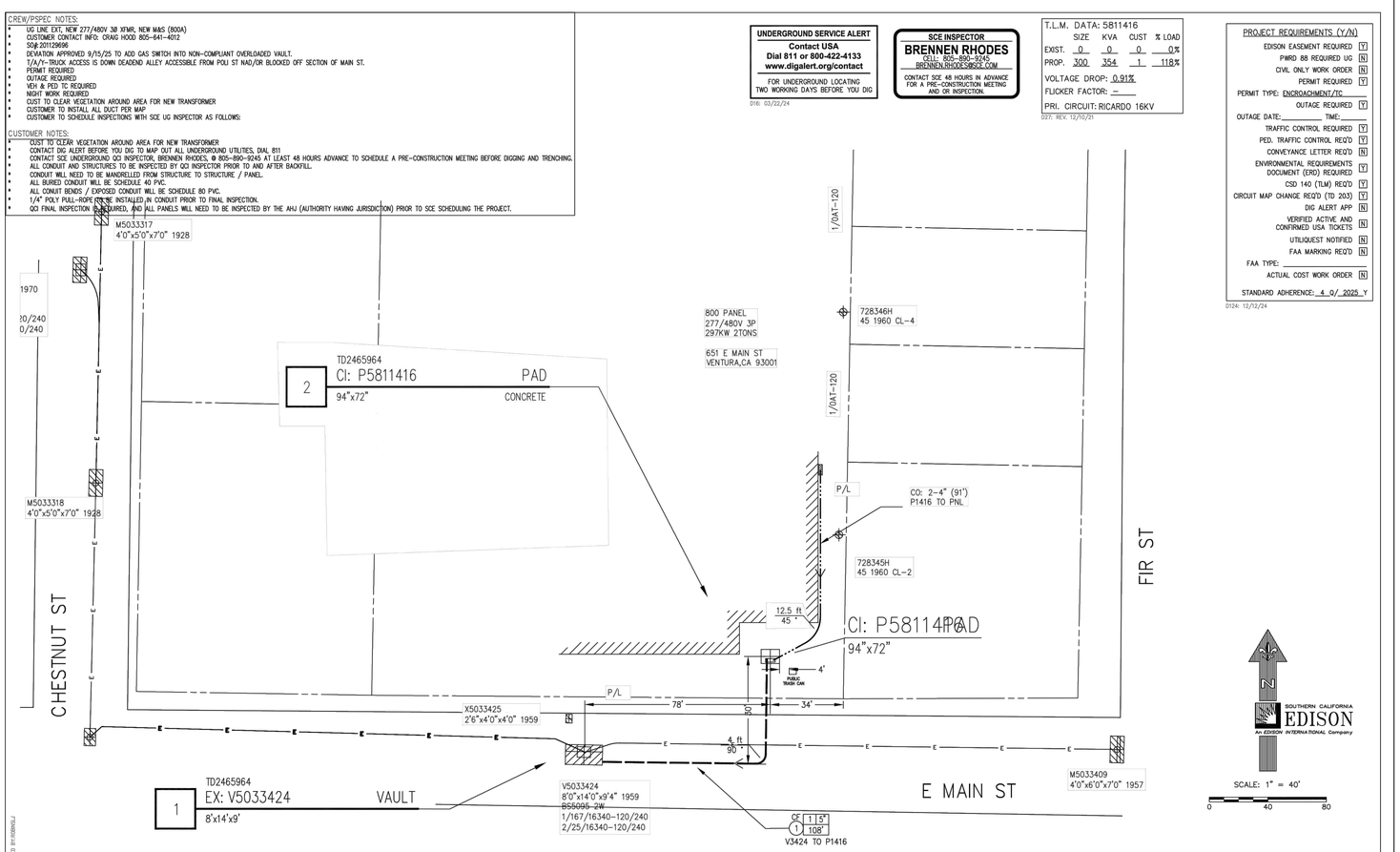
	SIZE	KVA	CUST	% LOAD
EXIST.	0	0	0	0%
PROP.	300	354	1	118%

VOLTAGE DROP: 0.91%
FLICKER FACTOR: -
PRI. CIRCUIT: RICARDO 16KV
DZT: REV 12/10/21

PROJECT REQUIREMENTS (Y/N)

EDISON EASEMENT REQUIRED	Y
PWRD 88 REQUIRED UG	N
CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	Y
PERMIT TYPE: ENCROACHMENT/TC	
OUTAGE REQUIRED	Y
OUTAGE DATE:_____ TIME:_____	
TRAFFIC CONTROL REQUIRED	Y
PED. TRAFFIC CONTROL REQ'D	Y
CONVEYANCE LETTER REQ'D	N
ENVIRONMENTAL REQUIREMENTS DOCUMENT (ERD) REQUIRED	Y
CSD 140 (TLM) REQ'D	Y
CIRCUIT MAP CHANGE REQ'D (TD 203)	Y
DIG ALERT APP	N
VERIFIED ACTIVE AND CONFIRMED USA TICKETS	N
UTILIQUEST NOTIFIED	N
FAA MARKING REQ'D	N
FAA TYPE: _____	
ACTUAL COST WORK ORDER	N
STANDARD ADHERENCE: 4 0/ 2025 Y	

D124: 12/12/24



LINE DEVICE ID# GS3166
TO BE PROVIDED BY DISTRICT AT THE TIME OF INSTALL
DIB: 03/22/24

TIE-IN MADE THROUGH SIDE WALL OF STRUCTURE
(VAULT, MANHOLE, PME, SOE/CST, BURD, SLAB BOX, PULL BOX, PMH)
THE CUSTOMER IS RESPONSIBLE TO TRENCH TO THE STRUCTURE ENTRANCE POINT AND BRING THE CONDUIT TO WITHIN 5' OF THE STRUCTURE BEING ENTERED. THE CUSTOMER IS TO PROVIDE SLIP COUPLING AND CONDUIT.
DDB: 03/22/24

PRELIMINARY
NOT FOR CONSTRUCTION

RICARDO 16kV % SAN MIGUEL B3

DISTRICT: 39 — VENTURA	PROJ MGR: ROBINSON, LAURA PHONE (805) 832-8814	PLANNER: ROBINSON, LAURA PHONE 805-832-88-14	DESIGNER: LUGO, ARLENE
PROJECT NO.: 3012371 / SERVICE REQUEST: 3892633	MSR NO.: PRESET	PRODUCT-1: 2465964—MIXED FUEL—LINE EXTENSION	ASSOC DESIGN
CIRCUIT / VOLTAGE: RICARDO 16KV	GPS	PRODUCT-2	ASSOC DESIGN
SUB / PG NO.: SAN MIGUEL SUB	CIRCUIT CODE	PRODUCT-3	ASSOC DESIGN
INVENTORY MAP	J.P.A. NO.	PROPOSED CONSTRUCTION (LOCATION): VENTURA, COUNTY OF 651 E MAIN ST VENTURA CA 93001	

TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET	DESIGN\DRWG NO.
P	12/15/25	STRUNK	ROBINSON	LUGO		1 or 2	1889010_0.01

Southern California Edison Company

FILE NAME: \\ENGVOL2\SCE\DWG SAVE SET\12/15/2025 4:08 PM SAVED BY:ROBINSO

SCE 1 OF 2

Addendum No. 1

CONSTRUCTION NOTES:

Unless otherwise specified on the working drawing which forms a part of the specification, the Contractor/Developer shall furnish the following items at no cost to the Edison Company.

Southern California Edison Company has attempted to correctly show all existing utilities and substructures in the vicinity of the work, but does not guarantee there are no other substructures in the area. Failure of SCE to show all substructures in their correct location will not be a basis for a claim for extra work, and the contractor shall be responsible for all damages to substructures whether shown or not.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.

2. CONDUIT:
   a. Minimum cover in street or parkway is 30" below gutter grade, unless noted otherwise.
   b. Minimum cover on private property is 30" below finished grade, unless noted otherwise.
   c. Contractor is to furnish and install approved conduit to Edison specifications per UGS CD 100.1, 110 AND 120.
   d. For the type of conduit for this job, See UGS CD 110.1.
   e. Install all risers per UGS CD 160, 161, 162 and 170.
   f. Cap all mainline conduits per UGS CD 148 and service conduits per UGS CD 150.
   g. Install blank conduit plugs in all conduits terminating into Vaults, Manhole's, PMH's, SOE's & all cap locations, per UGS CD 180.1 & UGS CD 180.2
   h. Install pull rope in all conduit runs. Pull rope to be at least 3/8" polypropylene rope, braided or twisted. For specifications, approved makes, and suppliers, see UGS GI 040.
   i. All conduit must be mandreled with the approved mandrel UGS CD 197.

3. CONDUIT RADIUS REQUIREMENTS:
   a: The minimum radius for bends are:
      36" for conduits 3" in diameter or smaller
      48" for conduits 4" and 5" in diameter
      60" for 6" diameter conduit
   b: The minimum radius for all sweeps of all mainline conduits is 12'-6" (unless noted otherwise).

4. EXCAVATION AND BACKFILL:
   a. Work area shall be cleared and rough graded to within four inches of final grade prior to installation of Edison conduit or structures.
   b. All excavations shall be in accordance with the California State Construction Safety Orders (when applicable), Edison specifications, and all governing local ordinances.
   c. Each trench to be a uniform depth below final grade prior to installation of Edison conduit or structures.
   d. Backfill shall be provided by the Contractor for all excavations and shall include crushed rock, concrete, and/or imported backfill, when required.
   e. Backfill with a MINIMUM of one sack per yard sand cement slurry around and over vaults and manholes per UGS GI 030, section 6.4 and around PMH's within one foot of finished grade, per UGS SS 590.1.
   f. Backfill, per Edison specifications, shall immediately follow conduit or substructure installation. At no time shall conduit be left exposed over 24 hours.
   g. No rocks are allowed within 12 inches of direct-buried cables or any conduit without concrete encasement. Native backfill capable of passing through a one-half inch mesh screen shall be considered to be "rock free". If existing backfill does not pass through a 1/2" screen, place imported sand 3" below and 12" above Edison cables. After this point, no rocks larger than 12" diameter are permitted.
   h. All backfill shall be compacted to meet or exceed local ordinances or other requirements. It shall be placed in a manner that will not damage the conduit or substructure or allow future subsidence of the trench or structures.

5. PAVING:
   Repaving, where required, shall be placed in such a manner that interference with traffic, including pedestrian traffic, will be kept to a minimum. The Contractor shall establish a program of repaving acceptable to the Municipality, County, or other authority having jurisdiction and which is acceptable to Edison.

6. STRUCTURES:
   a. All substructures shall be constructed or installed to Edison specifications.
   b. Install protection barriers per UGS MS 830 when required in areas exposed to traffic, per Edison Inspector.
   c. All conduit lines and concrete floored substructures shall be water tight.
   d. All grounding materials shall be furnished and installed by the Contractor.

7. RETAINING WALLS:
   When required, retaining walls shall be provided by the Developer. Walls are required wherever grade rises more than 18 inches above the structure or 24" above the pad surface at a distance of 5 feet from the same, or in areas subject to erosion. Design and installation must comply with local building ordinances. Refer to Edison Inspector for typical space requirements.

8. PERMITS:
   All permits necessary for excavation shall be provided by the Contractor/Developer.

9. ACCESS:
   Heavy truck access shall be maintained to equipment locations. Structures must be clear of all appurtenances that would obstruct the loading or unloading of equipment.

10. SERVICES:
   a. Meters and services shall comply with Edison Electrical Services Requirements.
   b. Wiring must be in accordance with applicable local ordinances and approved by local Inspection Authorities.

11. LOCATION:
   a. The location of excavations and structures for Edison shall be as shown on the working drawing. No deviation from the planned locations will be permitted unless approved by the Edison Inspector. See UGS GI 001, section 2.2.
   b. Actual location of obstructions, storm drains, and/or other foreign utilities to be the responsibility of the Contractor. See UGS GI 001, section 2.3.

12. Contractor is to verify location and widths of all sidewalks and driveways prior to street light installation. See UGS CD 175.1, UGS CD 175.2 and UGS CD 175.3.

13. SURVEY:
   Surveying of street improvements, property corners, lot lines, finished grade, etc., necessary for the installation of underground facilities must be completed and markers or stakes placed prior to the start of the installation. In addition, Developer shall maintain the markers during the installation and inspection by Edison. Grade and property line stakes must show any offset measurements.

14. COORDINATION AND SUPERVISION:
   The Developer shall provide supervision over and coordination among the various contractors working within the development in order to prevent damage to Edison facilities. He is responsible for the cost of repairs, replacement, relocation, or other corrections to Edison facilities made necessary by his failure to provide supervision or to otherwise comply with these specifications.

15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
   The drawing prepared for this job may also cover the facilities to be installed for the telephone company and/or other utility. Any questions concerning details of their installation should be referred to the company concerned.

16. OWNERSHIP:
   Developer is to deed to the Edison Company all structures shown hereon except those shown as customer owned.

17. WARRANTY:
   Applicants expressly represent and warrant that all work performed and all material used in meeting Applicants' obligations herein are free from defects in workmanship and are in conformity with Southern California Edison Company's requirements. This warranty shall commence upon receipt by Applicants of Company's final acceptance and shall expire one year from that date. Applicants agree to promptly correct to the Company's satisfaction and that of any governmental agency having jurisdiction and at Applicant's expense any breach of this warranty which may become apparent through inspection or operation of underground electric system by Company during this warranty period.

18. INSPECTION:
   Inspection is required during the construction period. A 48 hour advance notice of intent to start construction is required from the contractor to the Southern California Edison Company. Standards of Edison construction requirements are available upon request.

Duct and Structure Inspector: Phone:

Cabling Construction Coordinator: Phone:

D05: Rev. 07/21/16

CONNECTING TO EXISTING SCE STRUCTURES

- Per SCE requirements, customers are not allowed to enter, intercept or tie-in to existing SCE facilities; e.g. structures, equipment, multi-conduit runs/banks, or conductors. These facilities may be energized and the work will only be performed by SCE. Contact the appropriate SCE inspector to schedule an appointment. Customers may connect to an existing conduit stub without a SCE inspector present.
- Multi-conduit runs/banks are runs of conduit in close proximity to each other and other SCE facilities. A conduit stub is a single empty conduit stub that is not in close proximity to other SCE owned facilities. Refer to the work order map for details.
- Per CPUC/SCE's Rule 15 B.1.A and Rule 16 D.1.A., the customer will provide all necessary excavations (with the exception of excavation under pads and primary splice boxes), material (including conduit and structures) and encasement, to be utilized in the intercept/tie-in process.
- The customer must adhere to all applicable Cal-OSHA, local, city, state and federal regulations, (including, but not limited to, all necessary shoring and traffic control in place to perform the intercept/tie-in work by SCE's underground civil contractor(s)).
- Intercept/tie-in work must be coordinated with SCE's civil contractors through the Division Inspector/P-Spec to limit exposure of excavation(s). Customer is responsible for securing excavation(s).

D08: 11/13/18

TIE-IN MADE THROUGH SIDE WALL OF STRUCTURE

(VAULT, MANHOLE, PME, SOE/CST, BURD, SLAB BOX, PULL BOX, PMH)
THE CUSTOMER IS RESPONSIBLE TO TRENCH TO THE STRUCTURE ENTRANCE POINT AND BRING THE CONDUIT TO WITHIN 5' OF THE STRUCTURE BEING ENTERED. THE CUSTOMER IS TO PROVIDE SLIP COUPLING AND CONDUIT.
D09: 03/22/24

TIE-IN MADE THROUGH BOTTOM OF STRUCTURE

(PAD, PRIMARY SPLICE BOX)
THE CUSTOMER IS RESPONSIBLE TO TRENCH AND BRING THE CONDUIT TO WITHIN THE LAST RISER BEND OF THE STRUCTURE BEING ENTERED (DO NOT UNDERMINE STRUCTURE BEING ENTERED). THE CUSTOMER IS TO PROVIDE COUPLING AND BEND.
D10: 03/22/24

FILE NAME:1889010_0.01.DWG SAVE DATE:12/15/2025 4:06 PM SAVED BY:ROBINSLJ

NOTE:
ALL ELECTRICAL DUCTS AND STRUCTURES WILL CONFORM TO GENERAL ORDER #128 (RULES FOR CONSTRUCTION OF UNDERGROUND ELECTRICAL SUPPLY AND COMMUNICATION PRESCRIBED BY THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA, JANUARY 2006).

CUSTOMER-OWNED CONDUIT MATERIAL* AND CONCRETE ENCASEMENT ARE TO BE INSTALLED IN ACCORDANCE WITH EDISON ELECTRICAL SERVICE REQUIREMENTS.

*SUBJECT TO APPROVAL BY LOCAL INSPECTION AUTHORITIES

D14: 03/22/24

APPLICANTS EXPRESSLY REPRESENT AND WARRANT THAT ALL WORK PERFORMED AND ALL MATERIAL USED IN MEETING APPLICANTS' OBLIGATIONS HEREIN ARE FREE FROM DEFECTS IN WORKMANSHIP AND ARE IN CONFORMITY WITH SOUTHERN CALIFORNIA EDISON COMPANY'S REQUIREMENTS. THIS WARRANTY SHALL COMMENCE UPON RECEIPT BY APPLICANTS OF THE COMPANY'S FINAL ACCEPTANCE AND SHALL EXPIRE ONE YEAR FROM THAT DATE. APPLICANTS AGREE TO PROMPTLY CORRECT TO THE COMPANY'S SATISFACTION AND THAT OF ANY GOVERNMENTAL AGENCY HAVING JURISDICTION AND AT APPLICANTS' EXPENSE ANY BREACH OF THIS WARRANTY WHICH MAY BECOME APPARENT THROUGH INSPECTION OR OPERATION OF UNDERGROUND ELECTRIC SYSTEM BY THE COMPANY DURING THIS WARRANTY PERIOD.
D20: 03/22/24

WARNING

THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE, HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

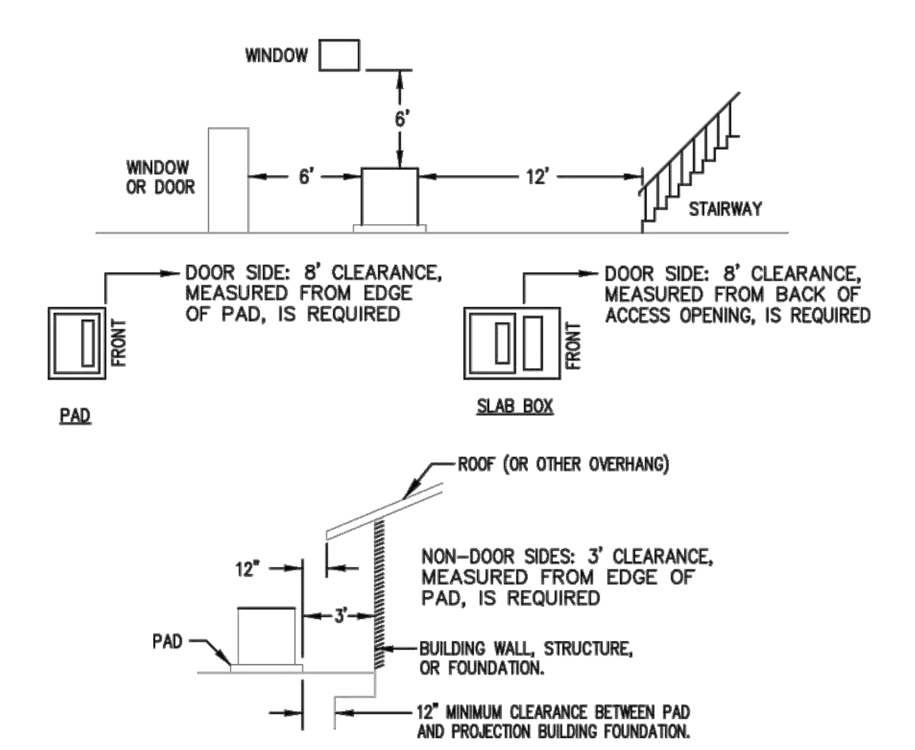
UNDERGROUND SERVICE ALERT
Contact USA
Dial 811 or 800-422-4133
www.digalert.org/contact
FOR UNDERGROUND LOCATING
TWO WORKING DAYS BEFORE YOU DIG
D16: 03/22/24

CONDUIT RADIUS REQUIREMENTS:

A: The minimum radius for bends are:
   36" for conduits 3" in diameter or smaller
   48" for conduits 4" and 5" in diameter
   60" for 6" diameter conduit
B: The minimum radius for sweeps are:
   36" for conduits 3" in diameter or smaller
   12'-6" for conduits 4" in diameter and larger, unless otherwise noted.

WHERE CONDUITS ARE PICKED UP OR INTERCEPTED, CONDUIT SHALL BE MANDRELLED AND PULL ROPE INSTALLED FROM TERMINAL TO TERMINAL.
D07: 03/22/24

MINIMUM CLEARANCES FOR PADMOUNTED TRANSFORMERS
SEE DDS-3, 3-40



NOTES:

1. AN 8' MINIMUM CLEARANCE IS REQUIRED ON DOOR SIDE OF TRANSFORMER FOR OPERATION. THIS AREA MUST REMAIN CLEAR OF ALL OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, SHRUBS, TREES, GATES, FENCES, WALLS, SIGNS AND POLES.
2. PAD-MOUNTED TRANSFORMERS SHALL NOT BE LOCATED IN FRONT OF DOORS, STAIRWAYS, BENEATH WINDOWS THAT CAN BE OPENED, OR WHERE THEY WILL OBSTRUCT THE VISION OF VEHICULAR TRAFFIC
3. PAD-MOUNTED TRANSFORMERS SHALL BE LOCATED AT LEAST THE MINIMUM DISTANCE AWAY FROM BUILDINGS OR OTHER STRUCTURES TO ENSURE ADEQUATE SPACE FOR OPERATING, TO MINIMIZE VIBRATION HUMS, AND TO MEET FIRE SAFETY REQUIRMENTS.
4. A CLEAR PASSAGEWAY OF 12 FEET MINIMUM SHALL BE AVAILABLE AT ALL TIMES, IMMEDIATELY ADJACENT TO ONE SIDE OF THE TRANSFORMER TO PROVIDE AN ACCESSIBLE ROADWAY FOR TRANSFORMER MAINTENANCE. THIS PASSAGEWAY SHALL BE DESIGNED TO MEET H-20 (20-TON) CONSTRUCTION.
5. TRANSFORMER STRUCTURES WILL NORMALLY BE INSTALLED ONLY IN NONTRAFFIC AREAS. TRANSFORMER PROTECTION IS REQUIRED WHEN COMPANY EQUIPMENT IS EXPOSED TO TRAFFIC. THIS PROTECTION MAY BE IN THE FORM OF BARRIERS, BARRICADES, OR CURB. A CURB MUST HAVE A MINIMUM HEIGHT OF 6 INCHES AND BE AT LEAST 6 INCHES THICK AND ITS FRONT FACE LOCATED 60 INCHES MINIMUM FROM THE EQUIPMENT FOUNDATION.

D54: Rev. 05/14/12

PAD FOR SURFACE-MOUNTED TRANSFORMER
POURED IN FIELD CONSTRUCTION AND PRECAST CONSTRUCTION (CONCRETE)
SEE UGS SS 504

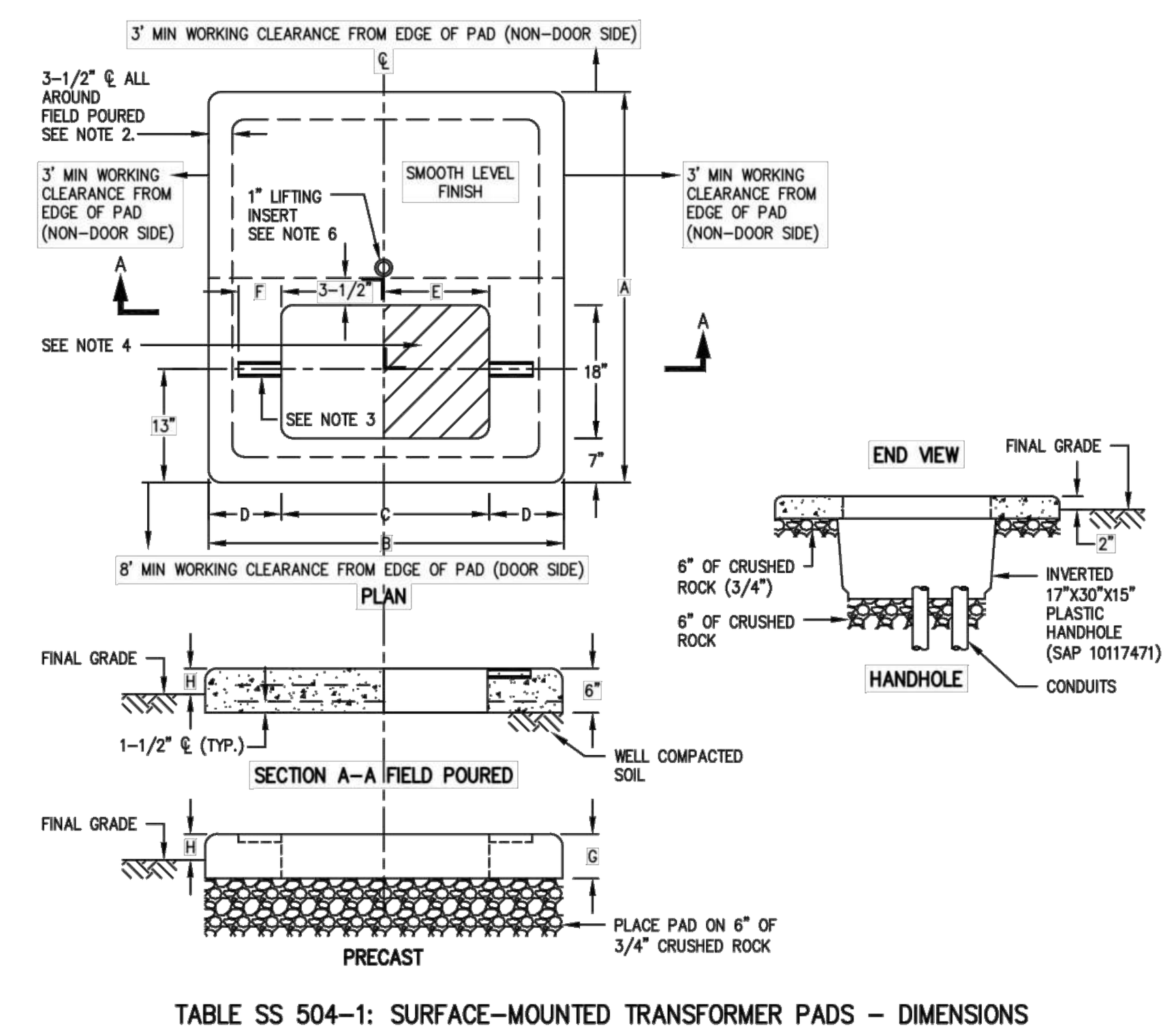


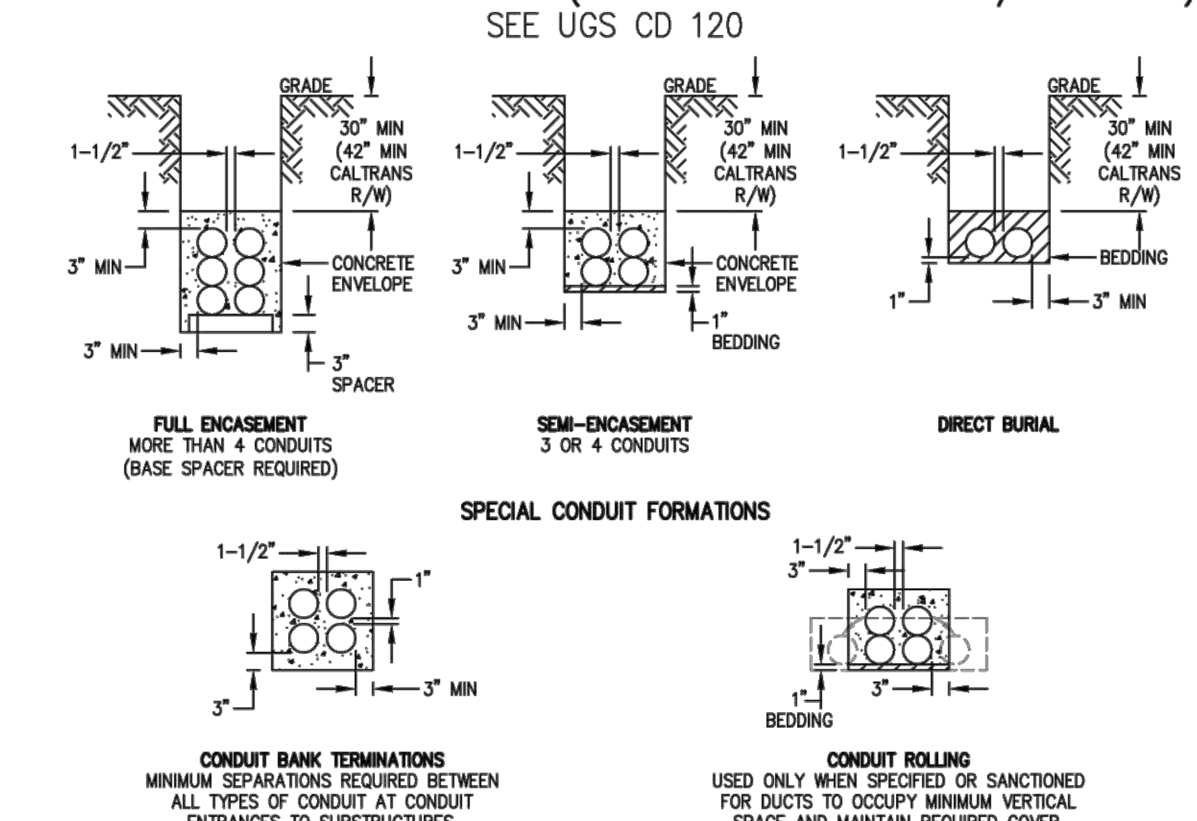
TABLE SS 504-1: SURFACE-MOUNTED TRANSFORMER PADS - DIMENSIONS

	TRANSFORMER	PAD DIMENSIONS (IN) A	B	C	D	E	F	G	H	WEIGHT (LB)	SAP
	1ø 25 KVA-167 KVA	5	4	2	11	12	6	4	2	750	10118012
FOR REFERENCE ONLY →	3ø 75 KVA-150 KVA NO SWITCH	66	72	38	7	15	6	6	3	2,200	10118011 SEE NOTE 8
	3ø 75 KVA-500 KVA SW AND FUSE	72	94	50	22	22	14	6	3	3,200	10118013 SEE NOTE 8

NOTE(S):
1. CONCRETE TO BE 3,000 PSI (MINIMUM) AT 28 DAYS.
2. REINFORCING STEEL TO BE NO. 4 BARS INSTALLED IN A DOUBLE NET. PERIMETER BARS TO BE CONTINUOUS (8 INCH MINIMUM LAP OR WELD)
3. HOLD-DOWN BRACKETS TO BE P-3200 SERIES UNISTRUT (OR EQUAL).
4. PRIMARY CABLES MUST BE INSTALLED IN SHADED AREA OF DRAWING ABOVE AS FAR TO THE RIGHT AS POSSIBLE ON SINGLE PHASE TRANSFORMERS ONLY. ON THREE-PHASE TRANSFORMERS PRIMARY CABLES MUST BE INSTALLED IN THE UNSHADED AREA OF DRAWING ABOVE AS FAR LEFT AS POSSIBLE.
5. SEE AC 701 FOR PAD-MOUNTED TRANSFORMER/CAPACITOR GROUNDING REQUIREMENTS AND AC 703 FOR APPROVED GROUNDING MATERIALS.
6. 1-INCH LISTING INSERT TO BE LOCATED AT CENTER OF GRAVITY ON PRECAST PADS.
7. SEE SS 500 FOR APPROVED MANUFACTURERS.
8. THE THREE-PHASE TRANSFORMER SHALL ONLY BE USED ON A PAD WHEN FOUR OR FEWER SERVICES ARE TO BE INSTALLED. A SLAB BOX SHOULD BE USED WHEN MORE THAN FOUR SERVICES WILL BE INSTALLED.
9. USE A THIN LAYER OF REDI-CRETE (OR EQUIVALENT) FOR RODENT AND WEED CONTROL OR WHERE TRANSFORMER DOES NOT FULLY COVER OPENING IN PAD.
10. A 17" X 30" X 15" PLASTIC HANDHOLE (SAP 10117471) SHALL BE INVERTED AND INSTALLED UNDER THE CABLE OPENING OF THE PAD. THIS WILL PROVIDE ADEQUATE CABLE SLACK FOR OPERATION OF THE LOAD-BREAK ELBOWS ON SINGLE PHASE TRANSFORMERS ONLY.

D43: 12/12/24

TYPICAL CONDUIT BANK SECTIONS (MAINLINE AND COMMERCIAL/INDUSTRIAL)
SEE UGS CD 120



NOTE(S):
1. SPACING AND CONCRETE COVERAGE AS SHOWN IS MINIMUM.
2. SPACERS, WHEN REQUIRED, WILL BE AS RECOMMENDED BY THE CONDUIT MANUFACTURER AND APPROVED BY THE COMPANY AND WILL BE PLACED AT THE INTERVALS SHOWN IN TABLE CD 120-1 (SHEET 1). VERTICAL SPACERS AND BASE SPACERS WILL BE MANUFACTURED FROM RIGID NONCOMPRESSABLE-TYPE MATERIALS. USE TEMPORARY MEANS TO MAINTAIN HORIZONTAL CONDUIT SPACING AT THESE INTERVALS UNTIL BACKFILL BEDDING OR ENCASEMENT IS PLACED.

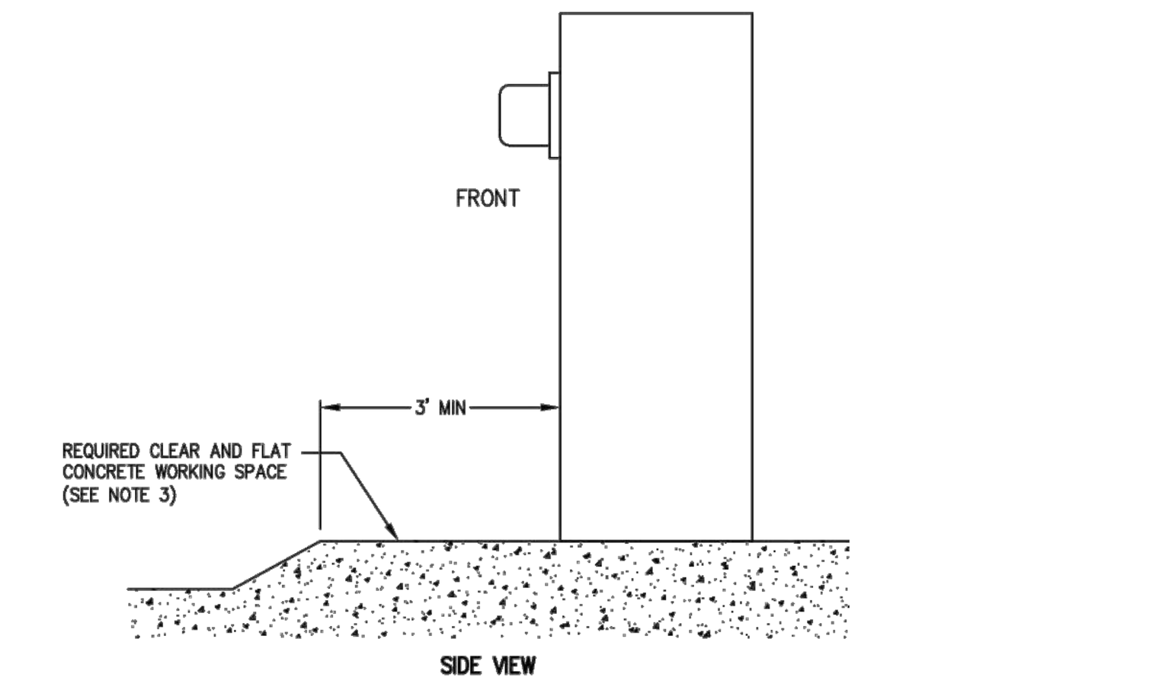
TABLE CD 120-1: HORIZONTAL CONDUIT SPACING INTERVALS

CONDUIT SIZE	2"	3"	3-1/2"	4"	5"	6"
SPACING WITH ENCASEMENT	10'	10'		10'		
SPACING WITH NONENCASEMENT	10'	8'		6'		

3. BASE SPACERS ARE REQUIRED ON ALL BANKS OF MORE THAN FOUR CONDUITS.
4. THE CONDUIT WILL BE OF AN APPROVED MAKE AND MANUFACTURE AS SET FORTH IN STANDARDS CD 115.
5. TYPES:
   A. "EB" (TYPE I) FOR ENCASED AND SEMI-CASED INSTALLATIONS
   B. "DB" (TYPE II) FOR DIRECT BURIAL
   C. "SCH. 40" RIGID PVC FOR INSIDE BORE CASINGS
6. FOR GENERAL CONDUIT BANK, CONCRETE, AND TRENCHING REQUIREMENTS, SEE CD 100.
7. INSTALL BARE COPPER NEUTRAL WIRE ONLY WHEN SPECIFIED ON WORKING DRAWING. FOR MAINLINE APPLICATIONS (INCLUDING 4-WIRE TAPLINES) WHEN THE NEUTRAL IS PRESENT ON AN OVERHEAD STRUCTURE THAT FEEDS A PRIMARY RISER, THE NEUTRAL SHALL BE CONTINUOUS TO THE FIRST UNDERGROUND STRUCTURE. A BARE COPPER NEUTRAL WIRE, AS SPECIFIED ON THE WORKING DRAWING, SHALL BE PLACED, AND FULLY ENCASED IN CONCRETE, AT THE LOWER REGION OF THE DUCT BANK, PREFERABLY IN-BETWEEN CONDUITS.
8. CONCRETE ENCASEMENT WILL BE KEPT UNIFORM. EXCESSIVE AMOUNTS OF CONCRETE WILL BE AVOIDED.
9. BEDDING WILL BE IN ACCORDANCE WITH CD 100.

D70: 12/12/24

PANEL CLEARANCE
UNDERGROUND SERVICE CONNECTIONS 0-600 VOLTS
SEE ESR 3-16



NOTES:
1. A MINIMUM OF THREE (3) FEET OF CLEAR, LEVEL WORKSPACE IS REQUIRED IN FRONT OF ALL TERMINATION, METERING, AND SERVICE EQUIPMENT.
2. SEE ESR-5 FOR METER-MOUNTING HEIGHT REQUIREMENTS. METER-MOUNTING HEIGHT WILL BE MEASURED FROM THE STANDING AND WORKING SPACE TO THE CENTERLINE OF THE METER(S).
3. WHEN SERVICE EQUIPMENT IS INSTALLED ON AN ELEVATED PORTION OF THE FLOOR/GROUND, OR HOUSEKEEEPING PAD, THE PAD SHALL BE FLUSH WITH AND EXTEND A MINIMUM OF THREE (3) FEET. THIS IS MEASURED FROM THE FRONT OF THE SERVICE EQUIPMENT OR THE OUTER DOOR(S) OF THE SWITCHBOARD NEMA 3R ENCLOSURE WHEN INSTALLED. IN NO CASE SHALL THE MAXIMUM METER HEIGHT OF 6'-3" BE EXCEEDED.
4. TO MAINTAIN A SAFE, CLEAR, AND LEVEL WORKING AREA IN FRONT OF NEW OR EXISTING METER AND SERVICE EQUIPMENT, A CONCRETE SLAB, ACCEPTABLE TO THE COMPANY, MUST BE USED.
5. FOR SWITCHBOARDS ABOVE 600V, FIVE-FOOT MINIMUM OF CLEAR AND LEVEL CONCRETE STANDING AND WORKING SPACE IS REQUIRED IN THE FRONT, REAR, AND SIDE OF ANY SECTION WHERE SUCH PART SUPPORTS OR PROVIDES ACCESS TO METERING, TESTING EQUIPMENT, OR SERVICE CABLE TERMINATION SECTIONS.

16.11 PROTECTIVE BARRIERS (POSTS/BOLLARDS) FOR SERVICE EQUIPMENT

BARRIER POSTS/BOLLARDS ARE USED TO PROTECT THE METER AND SERVICE EQUIPMENT, AS WELL AS PERSONNEL, FROM VEHICULAR CONTACT, AND TO PROHIBIT ENCROACHMENT INTO THE WORKING SPACE (FOR EXAMPLE, LOADING ZONES, DRIVEWAYS, CONGESTED AREAS, OFF STREET PARKING, AND SO ON).

THE CUSTOMER SHALL PROVIDE AND INSTALL "NON-REMOVABLE" BARRIERS (POSTS/BOLLARDS) TO PROVIDE THE PROPER SAFE WORKING CLEARANCES WHERE THE WORKSPACE IS EXPOSED TO VEHICULAR OR OTHER HAZARDOUS CONDITIONS. METERS WILL NOT BE SET UNTIL THE BARRIERS HAVE BEEN INSTALLED. METER CABINET DOORS MUST OPEN A MINIMUM OF 90 DEGREES AND NOT CONFLICT WITH BARRIER POSTS. A MINIMUM CLEARANCE OF 3-FEET IS REQUIRED FROM THE FACE OF THE SWITCH GEAR TO THE BOLLARD/POST.

D99: 03/22/24

PROTECTIVE BARRIERS
FOR UNDERGROUND DISTRIBUTION STRUCTURES
SEE UGS MC 830

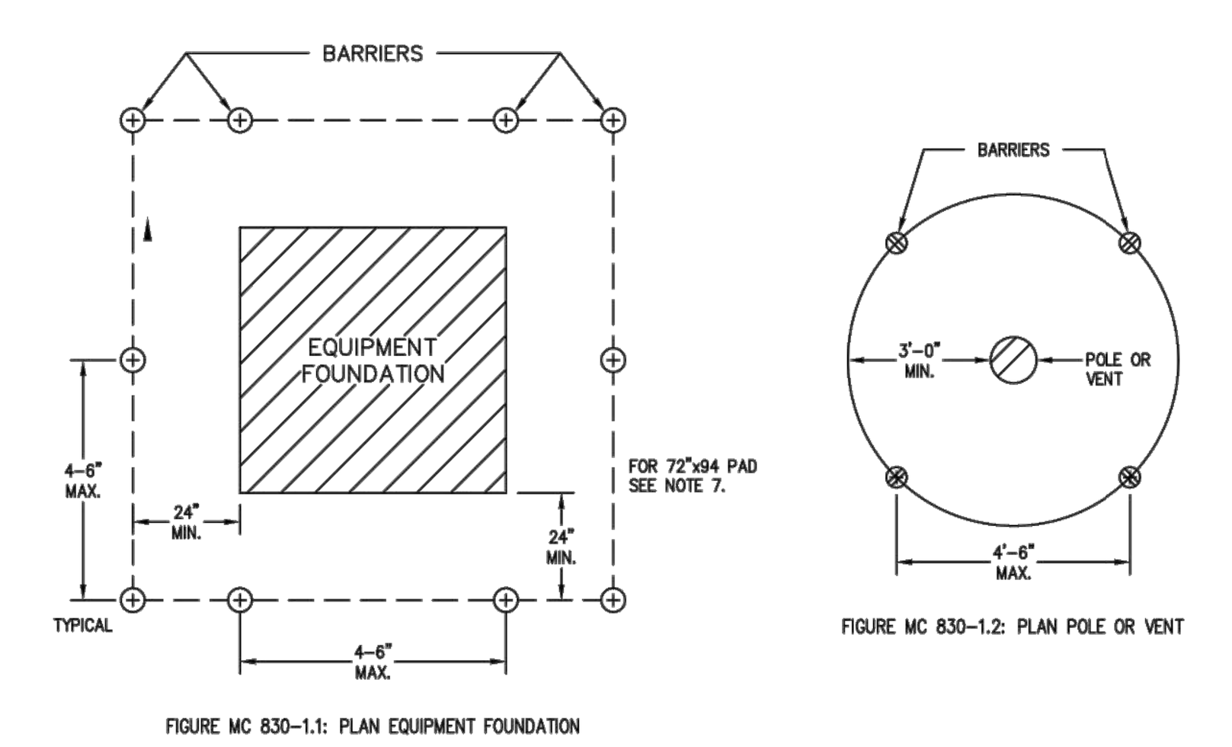


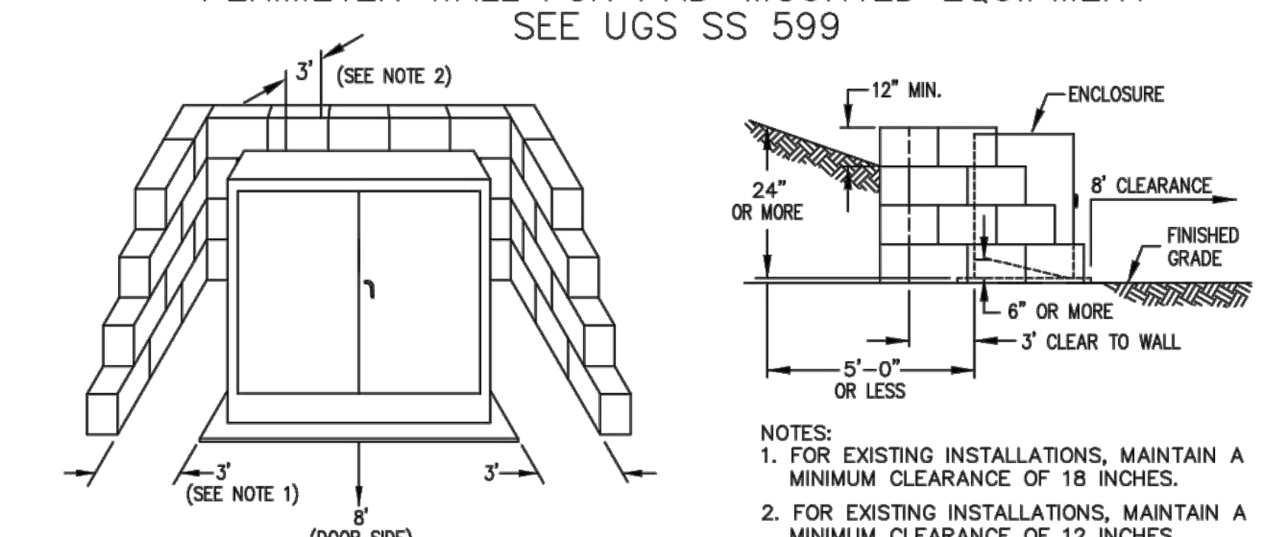
FIGURE MC 830-1.1: PLAN EQUIPMENT FOUNDATION

FIGURE MC 830-1.2: PLAN POLE OR VENT

1. STRUCTURES WILL NORMALLY BE INSTALLED ONLY IN NONTRAFFIC AREAS. PROTECTIVE BARRIERS ARE TO BE USED WHERE CONSTRUCTION EXPOSES EQUIPMENT TO TRAFFIC.
2. TOPS OF PROTECTIVE BARRIERS ARE TO BE SMOOTH CUT AND TOP EDGES ARE TO BE ROUNDED.
3. AT LEAST ONE BARRIER IS TO BE REMOVABLE, WITH A MEANS OF LIFTING TO SUPPORT THE WEIGHT OF THE BARRIER, WHEN OVERHEAD OBSTACLES PREVENT EQUIPMENT REMOVAL OR INSTALLATION BY CRANE. SEE FIGURE MC 830-1.3 (SHEET 2). THE LOCATION OF THE REMOVABLE BARRIER(S) SHALL BE APPROVED BY THE UNDERGROUND INSPECTOR.
4. ADEQUATE CLEARANCE MUST BE PROVIDED FOR DOORS, COOLING RADIATORS, AND SO FORTH.
5. PROTECTIVE BARRIERS, AS SHOWN ABOVE, INDICATE TYPICAL REQUIREMENTS. FIELD CONDITIONS WILL NECESSITATE CHANGES FOR ADEQUATE EQUIPMENT PROTECTION. APPLICATION OF PROTECTIVE BARRIERS IS SITE-SPECIFIC.
6. THE UNDERGROUND INSPECTOR IN THE FIELD MUST APPROVE ALL PROTECTIVE BARRIER INSTALLATIONS PRIOR TO CONSTRUCTION. THE UNDERGROUND INSPECTOR WILL DETERMINE (A) STATUS OF OVERHEAD OBSTRUCTIONS, (B) THE FRONT AND BACK OF EQUIPMENT FOUNDATIONS, AND (C) THE CLEARANCES REQUIRED ON DOORS, COOLING RADIATORS, AND SO FORTH.
7. WHEN A 72" X 94" PAD IS BEING INSTALLED, (A) INCREASE THE DISTANCE TO 36 INCHES MINIMUM BETWEEN THE PROTECTIVE BARRIERS AND THE FRONT EDGE OF THE PAD; AND (B) INCREASE THE DISTANCE BETWEEN THE PROTECTIVE BARRIERS AND THE BACK EDGE OF THE PAD FOR CAPACITOR BANK (DOOR SIDE ONLY) TO 36 INCHES MINIMUM. THE UNDERGROUND INSPECTOR WILL DETERMINE THE FRONT AND BACK OF THIS EQUIPMENT FOUNDATION.
8. WITH PRIOR SCE APPROVAL, THE FOLLOWING ALTERNATIVES MAY BE USED IN LIEU OF PROTECTIVE BARRIERS FOR PADMOUNTED STRUCTURES:
   A. WHEN SPECIFIED ON WORKING DRAWING, A 6-INCH (MINIMUM VERTICAL FACE) CONCRETE CURB MAY BE INSTALLED IN PLACE OF PROTECTIVE BARRIERS. THIS CURB MUST BE AT LEAST 6 INCHES THICK AND ITS FRONT FACE AT LEAST 60 INCHES (MINIMUM SPACING) FROM THE EQUIPMENT FOUNDATION.
   B. WHEN SPECIFIED ON WORKING DRAWING FOR RESIDENTIAL TRACT DEVELOPMENTS, PROTECTED BARRIERS WILL NOT BE REQUIRED WHEN THERE ARE ROLLED CURBS OR 6-INCH VERTICAL FACE CURBS THAT HAVE AT LEAST 60 INCHES (MINIMUM SPACING) FROM THE CURB TO THE EDGE OF THE EQUIPMENT FOUNDATION.
   C. WHERE EQUIPMENT IS LOCATED ADJACENT TO A RESIDENTIAL DRIVEWAY, PROTECTIVE BARRIERS MAY NOT BE REQUIRED WHEN THERE IS 30-INCH (MINIMUM) CLEARANCE FROM THE EQUIPMENT FOUNDATION TO THE EDGE OF THE DRIVEWAY. IN ADDITION, A 60-INCH CLEARANCE SHALL BE MAINTAINED FROM A FIRE HYDRANT TO A POLE. FIELD CONDITIONS WILL NECESSITATE CHANGES FOR ADEQUATE EQUIPMENT PROTECTION. IF THE MINIMUM CLEARANCES CANNOT BE OBTAINED, PROTECTIVE BARRIERS ARE REQUIRED.
9. WITH PRIOR SCE APPROVAL, THE FOLLOWING ALTERNATIVES MAY BE USED IN LIEU OF PROTECTIVE BARRIERS FOR PRIMARY SURFACE OR SEMI BURIED STRUCTURES INCLUDING BURD STRUCTURES:
   A. WHEN SPECIFIED ON WORKING DRAWING, A 6-INCH (MINIMUM VERTICAL FACE) CONCRETE CURB, 8-FEET IN LENGTH MAY BE INSTALLED IN PLACE OF PROTECTIVE BARRIERS. THIS CURB MUST BE AT LEAST 6 INCHES THICK.
   B. WHERE THERE ARE ROLLED CURBS OR CURBS THAT HAVE LESS THAN 6-INCHES OF VERTICAL FACE, PROTECTIVE BARRIERS MAY NOT BE REQUIRED WHEN THERE IS AT LEAST 60 INCHES (MINIMUM SPACING) FROM THE CURB TO THE EDGE OF THE PRIMARY SURFACE OR SEMI BURIED STRUCTURES. (SEE FIGURE MC 830-1.5)
   C. WHERE EQUIPMENT IS LOCATED ADJACENT TO A RESIDENTIAL DRIVEWAY, PROTECTIVE BARRIERS MAY NOT BE REQUIRED WHEN THERE IS 30-INCH (MINIMUM) CLEARANCE FROM THE EQUIPMENT FOUNDATION TO THE EDGE OF THE DRIVEWAY. (SEE FIGURE MC 830-1.5)
   D. FIELD CONDITIONS WILL NECESSITATE CHANGES FOR ADEQUATE EQUIPMENT PROTECTION. IF THE MINIMUM CLEARANCES CANNOT BE OBTAINED OR THERE IS NO CURB, PROTECTIVE BARRIERS SHALL BE REQUIRED.
   E. IN ADDITION, A 60-INCH CLEARANCE SHALL BE MAINTAINED FROM A FIRE HYDRANT TO A POLE, TRANSFORMERS, PME SWITCHES, OR ANY PRIMARY SURFACE OR SEMI BURIED STRUCTURE.

D91: Rev. 10/26/20

PERIMETER WALL FOR PAD-MOUNTED EQUIPMENT
SEE UGS SS 599



NOTES:
1. FOR EXISTING INSTALLATIONS, MAINTAIN A MINIMUM CLEARANCE OF 18 INCHES.
2. FOR EXISTING INSTALLATIONS, MAINTAIN A MINIMUM CLEARANCE OF 12 INCHES.

PERIMETER WALLS ARE REQUIRED WHENEVER THE GRADE RISES MORE THAN 24 INCHES ABOVE THE TOP OF A PAD AT A DISTANCE OF 5 FEET FROM THE EDGE OF THE PAD. PERIMETER WALLS ARE ALSO REQUIRED WHENEVER THE GRADE RISES 6 INCHES ABOVE THE TOP OF A PAD AT ANY POINT ADJACENT TO THE PAD. THE PERIMETER WALL SHOULD EXTEND 12 INCHES ABOVE THE HIGHEST POINT IN THE GRADE AT THE OUTSIDE SURFACE OF THE WALL.

AN 8 FOOT MINIMUM WORKING CLEARANCE IS REQUIRED ON THE DOOR SIDE OF PAD-MOUNTED EQUIPMENT (TYPICAL), MEASURED EITHER FROM THE EDGE OF THE PAD OR BACK OF THE ACCESS OPENING.

A 3 FOOT MINIMUM CLEARANCE IS REQUIRED ON THE NON-DOOR SIDE OF PAD-MOUNTED EQUIPMENT (TYPICAL), MEASURED FROM THE EDGE OF THE PAD.

THE PERIMETER WALL SHALL CONFORM TO LOCAL BUILDING ORDINANCES.

D100: REV. 02/14/11

DISTRICT 39 - VENTURA	PROJ. MGR. ROBINSON, LAURA PHONE (805) 832-8814	PLANNER ROBINSON, LAURA PHONE 805-832-8814	DESIGNER LUGO, ARLENE
PROJECT NO. 3012371 / SERVICE REQUEST 3892633	MSR NO. 201129696	PRODUCT-1 2465964-MIXED FUEL-LINE EXTENSION	ASSOC DESGN
CIRCUIT / VOLTAGE RICARDO 16KV	GPS	PRODUCT-2	ASSOC DESGN
SUB / PG NO. SAN MIGUEL SUB	CIRCUIT CODE	PRODUCT-3	ASSOC DESGN
INVENTORY MAP	J.P.A. NO.	PROPOSED CONSTRUCTION (LOCATION) VENTURA, COUNTY OF 651 E MAIN ST VENTURA CA 93001	

TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #
P	12/15/25	STRUNK	ROBINSON	LUGO	

Southern California Edison Company

SHEET 2 OF 2 — DESIGN\DRWG NO. 1889010_0.01

Addendum No. 1