

ADDENDUM No. 2, to Drawings and Specifications dated Jan 05, 2024, for the Sanibel Fire Station #172 at 5171 Sanibel Captiva Rd, Sanibel, FL 33957 as prepared by Schenkel Shultz, 9510 Corkscrew Palms Circle Unit 1, Estero, FL 33928.

This **ADDENDUM No. 2** shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent herein after specified and set forth in this **ADDENDUM No. 2**

Response to Pre-Submittal RFI's

- 1) Sliding glass windows and doors are to be Level-E rated. The basis of design for both are PGT; however, PGT doesn't manufacture a Level-E rated sliding glass window or door. Please clarify. Drawings; A500 & A501 Specification; 08 8000 – Page 13 – 3.8.D

Response: PGT manufacture does not provide a level E rated system as required for this station. Therefore, level E rated fabric shutters were added to the sliding door and sliding windows as indicated in the architectural drawings and specifications. The specification was revised to remove level E indication for that glazing type. See attached specification 08 80 00 Glazing.

- 2) Regarding the Davis Bacon Act, does the district have an LCP tracker certified payroll?

Response: No, the District does not have an LCP tracker certified payroll. The contractor is responsible for coordinating the payroll as required by the Davis Bacon Act. The contractor is encouraged to use a tool like the LCP tracker certified payroll to meet the Davis Bacon Act requirements if they prefer to do so.

- 3) Will a bid extension be issued or considered?

Response: No. The District feels that they have provided sufficient bidding time.

- 4) When will the demolition activity be completed?

Response: Demo of the existing building and surrounding apron will be completed March 1st.

- 5) What is the anticipated start date?

Response: The anticipated start date is April 2024.

- 6) Please confirm the Owner is paying for permit fees.

Response: The District will be responsible for the permit fees.

- 7) Please confirm on the Bid Form that Field Located Items by Engineer are Unit Prices that should not be included in the Total Bid.

Response: Please refer to the attachments for the revised Bid Schedule. The field located items were removed from the bid schedule as well as the Total plus alternate final bid number. The Bid schedule was also replaced in the Sanibel Fire District website with a Rev 1 designation. A Landscaping Unit count form was added for the bidders use.

- 8) Drawing LP-1 Shows a bench by the Flagpole. Should we include this? If so, please provide more information.

Response: The bench in the exterior memorial garden will be provided by the District and will not be part of Contractors scope.

- 9) Door 004 is called out as Existing on A1/AS503. On the Door Schedule it appears to be new. Please confirm we are to provide a new door, frame, and hardware.

Response: The existing door is to remain and be refinished as indicated in the drawings. The door schedule was revised to clarify this, see sheet A500.

- 10) Will we be allowed to park cars on Bowmans Beach Road during construction?

Response: No, street parking is not allowed on Bowmans Beach. Contractor to park on the side lot of the property. Awarded contractor to provide a staging plan to District for review and approval.

- 11) Please clarify the Site Demolition requirements. Drawing 3 of the Civil and AS011 of the Architectural contradict each other. Example is Drawing 3 calls for the paving areas to be removed, Drawing AS011 states it is Part of Separate Permit. - Architecture (see Attachments)

Response: The existing station, existing conc. sidewalks, existing concrete aprons, and existing pavers are all being demolished as part of a separate permit that will be completed March 1, 2024.

- 12) Please confirm Ceiling Types and Locations. Drawings A141 & A142 on the Ceiling Legend & Notes do not appear to match the Ceiling Code Schedule shown on drawing A160.

Response: Please refer to corrected sheets clarifying the code legend, see sheets A141, A142, and AS503.

- 13) On Drawing IR-1 under the Irrigation Schedule it calls out under Symbol POC for a 5" Deep well. On Drawing AS012 there appears to be an existing well in the same location. Should we install a new well or utilize the existing one?

Response: There will be no well and no pump. The water source is municipal from the meter at the northeast corner of the site. See revised landscape drawings.

- 14) In the Mechanical Chase on drawing A102 it calls out wall type C3. On drawing G031, Partition Type C it does not have a 3 indicated. Please confirm the stud size should be 3 5/8"?

Response: Partition type C is part of UL Detail U415 which requires a 4" metal stud. Wall tags were updated to call for a C4, refer to Sheet A102.

- 15) What is the Owners Low Voltage Contractor's scope of work?

Response: The District is responsible for the low voltage and the scope includes the security system, RFID door fobs, cameras systems, fire department communications, and IT. The contractor is responsible for coordinating with Districts low voltage subcontractors during construction.

The contractor is to install and run all Cat 5 for Alert and IT. The Security/ Access contractor will pull/run their own wire.

- 16) On Drawing A160 on the Miscellaneous Code Schedule items Misc-1 & Misc-8 are called out as TBD-Local Artist. Has a Local Artist been selected?

Response: No, a local artist has not been selected. The District will be responsible for these two art installations. A note was added on Sheet A160. The contractor is responsible for coordinating with the artist on the final installation.

- 17) Keynote 8 on S100 calls for the 2 story Exterior Stairs to be Pre-Engineered Aluminum, the architectural drawings call for them to be Metal Pan Stairs. Please confirm the Stair type.?

DRAWINGS – Sheets with Revisions

ARCHITECTURE	<i>BIDDER RFI AND PERMIT COMMENT RESPONSES</i>	
G000	COVER SHEET	
G010	CODE SUMMARY & CALCULATIONS	
G011	FLORIDA PRODUCT APPROVALS	
G031	PARTITION TYPES & NOTES	
AS503	SITE DETAILS – EXISTING STORAGE BUILDING	
A030	SLAB PLAN – APPARATUS BAY	
A100	ARCHITECTURAL PLAN – APPARATUS BAY	
A101	ARCHITECTURAL PLAN – FIRST FLOOR	
A102	ARCHITECTURAL PLAN – SECOND FLOOR	
A120	DIMENSION PLAN – APPARATUS BAY	
A141	REFLECTED CEILING PLAN – APPARATUS BAY & FIRST FLOOR	
A142	REFLECTED CEILING PLAN – SECOND FLOOR	
A160	INTERIOR FINISH SCHEDULE, LEGENDS, AND DETAILS	
A161	FINISH PLAN – FIRST FLOOR	
A162	FINISH PLAN – SECOND FLOOR	
A201	EXTERIOR ELEVATIONS	
A202	EXTERIOR ELEVATIONS	
A482	ENLARGED STAIR PLANS – EXTERIOR	
A485	ENLARGED STAIR SECTIONS	
A500	DOOR SCHEDULE, DOOR AND FRAME TYPES	
A583	DETAILS – EXTERIOR STAIR	
LANDSCAPE	<i>PERMIT COMMENTS RESPONSE – REDUCE BUFFER MATERIAL</i>	
C	COVER SHEET	
LP-1	CODE REQUIRED PLAN	
LP-2	PROPOSED PLANTING PLAN RENDERED	
LP-2A	PROPOSED PLANTING PLAN	
LP-3	CODE REQUIRED BUFFERS	
LP-4	PLANT SCHEDULE	
IR-1	PORPOSED IRRIGATION PLAN	
IR-2	IRRIGATION DETAILS & NOTES	
STRUCTURE	<i>PERMIT COMMENT RESPONSE</i>	
S003	WIND PRESSURES	
S121	SECOND FLOOR AND LOW ROOF FRAMING PLAN	
S131	MAIN ROOF AND TOWER ROOF FRAMING PLANS	
S307	ROOF SECTIONS & DETAILS	
SITE LIGHTING	<i>PERMIT COMMENT REVISIONS- NO CHANGES TO LIGHTING JUST PART OF RESPONSE</i>	
E010	SITE PLAN - ELECTRICAL	
E011	SITE PLAN - PHOTOMETRICS	
E012	FIXTURES - PHOTOMETRICS	
E013	SITE PLAN – BUILDING ATTACHED LIGHTING	
ELECTRICAL	<i>PERMIT COMMENT RESPONSE</i>	
E601	RISER ELECTRICAL	

SITE WORK - TOTAL

\$ -

5.0 CONTRATOR

General Conditions
Insurance & Bonds

TOTAL

CONTRACTOR - TOTAL

\$ -

TOTAL LUMP SUM BASE BID

\$ -

BID ALTERNATES

Training Roof Alternate

UNIT	TOTAL
LS	

TOTAL ALTERNATES

\$ -

Vendor Signature:	
Print Name:	
Date:	

PROJECT NAME: Sanibel Fire Station #172
 SSA COMM. NO. 2023820
 MEETING DATE: February 9, 2024
 LOCATION: Sanibel Fire Station #171 Conf. RM
 PURPOSE: Mandatory Prebid Meeting



MEETING ATTENDANCE LOG

Name	Organization	e-mail address
<input type="checkbox"/> Brandon Deen	Wright Construction	brandon.deen@wcfi.com
<input type="checkbox"/> Will Costello	Costello Construction	will@costelloconstructioninc.com
<input type="checkbox"/> Dustin Heata	WRIGHT Construction	DUSTINHEATA@WCFI.COM
<input type="checkbox"/> CRAIG BRYANT	MANHATTAN	CBryant@manhattanconstruction.com
<input type="checkbox"/> Shannon Lane	Manhattan Const	SLane@ "
<input type="checkbox"/> Matthew Zwack	O-A-K	mzwack@oakfl.com
<input type="checkbox"/> Kaitlin Schafel	O-A-K	kschafel@oakfl.com
<input type="checkbox"/> Abel Natali	O-A-K	Anatali@oakfl.com
<input type="checkbox"/> Taylor Smutzky	O-A-K	tsmutzky@oakfl.com
<input type="checkbox"/> Mike Szabala	Stevens Construction	Mikei@stevensbuilds.com
<input type="checkbox"/> Dirk Danley	PMI	DDANLEY@PMIOFFL.COM
<input type="checkbox"/> Alair Long	Fusion Industries	along@fusionindustriesllc.com
<input type="checkbox"/> WARD HARRIS	FUSION INDUSTRIES	WHARRIS@FUSIONINDUSTRIESLLC.COM
<input type="checkbox"/> Daniel Usilton	Target Roofing	Danny@targetroofers.com
<input type="checkbox"/> Chad Gore	UES	CGore@TEAMUES.COM
<input type="checkbox"/>		





February 14, 2024

City of Sanibel
Building Division
City Hall: 800 Dunlop Rd, Sanibel, FL 33957

Job Name: Sanibel Fire Station #172
Owner: Sanibel Fire District
Address: 5171 Sanibel Captiva Rd, Sanibel, FL 33957
Project No: 2023820
Permit No: BLDC-2024-015187

Subject: Permit Comment Responses – Resubmittal #1

Planning Review: (Reviewed by Craig Chandler)

1. Please submit site lighting plans as a separate ACC application. The Outdoor Lighting Plan document should show outdoor lighting affixed to the building as compliant with dark sky standards in Sec. 126-997.

[Response: An outdoor lighting plan for outdoor lighting affixed to the building has been provided. See attached Site lighting package.](#)

Flood Review: (Reviewed by Christa Carrera)

1. Please remove all references to NGVD the correct datum is NAVD. Please make this change to all elevation references on all pages. (See Site Plan and any other pages that may apply)

[Response: Any reference to NGVD has been corrected to reflect NAVD. See Revision on Sheet AS012 of the Architecture Site Plan.](#)

2. There is a shower/eye wash station below the required flood elevation; the shower must either be removed, drained to the outside and not directly into the plumbing system or elevated to the required flood elevation.

[Response: The shower/eye wash is an emergency fixture and its location at the apparatus level is critical for access in an event of an emergency. The shower and eye wash station will discharge water onto the floor, which will then drain into the trench drain system located within the apparatus bay. To prevent any water from escaping the drain during a flooding situation there is a backwater valve \(BWV\) downstream of each trench drain. See plumbing drawing P100 for exact locations of BWV-2. Refer to Sheet P601 for spec of BWV_2.](#)



3. Please provide the flood vent calculations on the floor plan or provide information where the flood vent calculations and type can be found.

Response: The flood vent calculations were added to Sheet G010 Code summary and calculations, Sheet G011 Florida Product Approval, and floor plans sheets AS503, A030, and A120.

Building Review: (Reviewed by Edward Winogrodzki)

1. The apparatus-bay is approximately 6-feet below other portions of the building. An accessible route per 8th Ed. FBC-Accessibility (FBC-A) 402.2 must connect changes in level per FBC-A 201.1.1. A ramp, elevator or lift is required.

Response: Power has been provided for a portable lift in the apparatus bay above the base floor elevation. A dotted line has been added to Sheet A100 and A101 floor plans showing location of the portable lift. A removable rail was added in front of the lift location and a railing details was added to sheet A583. Refer to Electrical sheet E201 shows the power for the portable lift.

2. Please provide the complete product evaluation and installation instruction documents (FL PA's or NOA's) for all component and cladding materials per 8th Ed. FBC-Building (FBCB) 1405.13.1, 1609.1, and 61G20-3 F.A.C., to include but not necessarily be limited to:

- Storefront window/walls,
- Side-hinged doors,
- Overhead doors,
- Folding doors,
- Impact-resistant shutters/screens.

Product evaluations shall include Missile Level-E conformance, where applicable.

Verify all selected products satisfy the engineer's design pressure requirements for components and cladding (S003).

Note that door openings to the patio-221 need not be resistant to water infiltration per FBCB 1709.5.1.

Note that complete NOA's have been provided for the PGT HR7710A HR window, the PGT 770 sliding glass door, and the Green Check EHH-601D louver.

Response: FL PA's and/or NOA's were provided on Sheet G011 and included in the permit submission along with Product data submittal sheet. We have verified that all products satisfy the design pressure requirements.

3. Please clarify the specific metal roofing panel proposed per FBCB 107.2. The product information furnished (FL35396_PAC-CLAD TITE-LOC PLUS ROOF - STANDING SEAM_v1) has multiple products/profiles/materials with a wide range of design pressure limitations. Please provide complete product evaluation and installation instruction documents (FL PA or NOA) to determine compliance with the engineer's wind design requirements per FBCB 1506.1 and 61G20-3 F.A.C.

Please provide complete product evaluation and installation instruction documents (FL PA or NOA) for the flat-roof covering materials and high-light or otherwise indicate the specific system proposed for installation to determine compliance with the engineer's wind design requirements per FBCB 1506.1 and 61G20-3 F.A.C.



Response: We have clarified the assembly for the metal roof and flat roof. See updated Sheet G011 with revised product approval and system that has been selected.

4. Show attic access location(s) per FBCB 1209.2.

Response: Required attic access on the second floor is achieved through the 24"x24" ACT grid ceiling. No obstructions occur above the ceiling. It is an open attic therefore you have access above any hard ceiling. Notes were added to Sheet A142 to clarify access to attic at hard ceilings.

5. Structural plan wind design parameters on sheet-(S001) lists Exposure Category-(C) which is in conflict with the wind design parameters for Component and Cladding Wind Pressures on sheet-(S003) listing Exposure-(D), and the architectural plan wind design parameters on sheet-(G010) which also lists Exposure-(D); please clarify/correct per FBCB 107.2.

Response: The Structural drawings and the Architecture drawings have been correct to reflect Wind Exposure C.

6. Please verify/confirm that 6/6/6-roof sheathing attachment (key note-20, S121, S131) is also applicable to overhang areas per FBCB 107.2.
Clarify/provide wind exposed wood soffit sheathing attachment.

Response: The architecture drawings indicate 3/4" plywood at underside typical at overhangs. The Structural drawings have added the 3/4" plywood and nailing details to their drawings, see structural drawings.

7. Please provide pre-engineered wood truss plans digitally signed by the truss design engineer and accepted by the engineer of record under separate cover per FBCB 2303.4.1.4 and 61G15-30 F.A.C. Where truss plans are to be deferred, kindly indicate so. Note that truss plans will be required as a revision prior to the tie-beam inspection.

Response: The truss design will be a deferred submittal. A note was added to Sheet SXXX. Pre-engineered wood truss plans will be provided after a contractor is awarded and a truss engineer is selected to do the work.

8. Note that the engineer shall inspect all structural steel components and installation per FBCB 105.14 and provide the building official a letter of acceptance and conformance to the approved plans to including but not necessarily limited to:
- Bolted connections,
 - Field welded connections/splicing,
 - Field welded composite shear connectors,
 - Steel roof deck welding.

Response: A 3rd party inspector will provide this service and letter to the building official.

**Mechanical Review: (Reviewed by Chris Rosinski)**

1. Provide return air for sleeping rooms and show diagram of duct smoke detectors to be used.

Response: Mechanical Review is shown as approved. Return air is shown for all sleeping rooms on drawing M102. The location of the duct smoke detector required for the HVAC system is shown in detail 1 on drawing M501.

Electrical Review: (Reviewed by Duane Nusz)

1. Please clarify Sheet E601. Riser Diagram shows MDP with 800 Amp MCB, Panel Schedule MDP shows MLO. Please include a note generator and PV System shall be permitted separately.

Response: Riser diagram is correct. Updated panel schedule for MDP. Added general notes to riser sheet E601 indicating generator and PV system shall be permitted separately.

General Notes

- All drawing changes related to these permit comment responses have been clouded and tagged as Revision #1 Permit Comment Responses, dated 02.14.24
- Approved Plan Reviews: Public Works, Plumbing, Mechanical and Fire.
- Pending Natural Resources review, need to stake building after full demo of existing building.

Sincerely,

A handwritten signature in cursive script that reads "Nathalie White".

Nathalie White, AIA
Associate Principal

Cc: Gary Kruger, AIA and Fire Chief Kevin Barbot



Date: February 16, 2024

To: Nathalie White, AIA
Schenkel Schultz

To: City of Sanibel Planning Commission
& City of Sanibel Staff

RE: Sanibel Fire & Rescue Station #172
5171 Sanibel-Captiva Road
Sanibel Island, FL 33957

Sanibel Fire - Landscape Plan Revision Per Sanibel LDC

The landscape plan revisions 04 – Sanibel Buffer LDC Update / 02/16/2024 respond to the recently amended Sanibel LDC Buffer codes which allow for a 15% reduction of plants from each buffer that is 100% native plant species. As all buffers are 100% native species, 15 % of trees, small trees and shrubs were omitted from each of the four buffers on site. The amount of groundcovers remains the same for site stabilization purposes with the added principle that less groundcovers = greater weed pressure until the groundcovers fill in.

The irrigation plan has been revised to respond to the reduced tree and small tree quantities, reducing the quantity of bubblers on site. The irrigation has been revised to reflect the municipal water connection at the northeast corner of the site. There will not be a well or pump for irrigation on site. This has been omitted.

The landscape bid form has been updated to reflect the landscape plant quantity changes on site.

Plan changes as listed by sheet.

LP-1

- Updated buffer vegetation notes to represent the revised Sanibel LDC language.
- Revision of buffer calculations (trees and shrub/small tree) by 15% reduction per new Sanibel LDC.
 - Sanibel Captiva Road Buffer
 - Reduction of 11 trees on the large/medium tree category
 - Reduction of 27 small tree/shrub category (20 small shrubs, 7 small trees)
 - Small redistribution of groundcovers to better response to swale shape.
 - Reduction of golden creeper by 35 plants
 - Increase of Muhly grass quantity by 20 plants



- Bowman's Beach Road Buffer
 - Reduction of 18 trees on the large/medium tree category
 - Reduction of 24 small tree/shrub category (18 small shrubs, 6 small trees)
- South Buffer
 - Reduction of 3 trees on the large/medium tree category
 - Reduction of 7 small tree/shrub category (5 small shrubs, 2 small trees)
- East buffer
 - Reduction of 5 trees on the large/medium tree category
 - Reduction of 13 small tree/shrub category (9 small shrubs, 4 small trees)

LP-2 & LP2-A (rendered plan)

- Plan revision to represent buffer reduction of trees and shrubs.
- Small redistribution of groundcovers to better response to swale shape.
 - Increase of spider Lily planting bed by 69 plants
 - Reduction of Elliot's love grass by 102 plants

LP-3

- Update the buffer density calculations boxes to represent the new Sanibel LDC calculations and reductions.
- Added LDC language from Sec. 122-73 Types, Varieties, and numbers of plants required

LP-4

- Plant schedules updated.

IR-1

- Updated irrigation design per new revised plan.
- Updated irrigation source water to municipal /city water source and addition of backflow preventor /meter addition.

IR-2

- Updated general irrigation notes.
- Updated critical analysis calculations to represent new water source and water meter.

Sincerely,



Leigh A. Gevelinger, PLA, ASLA, LEED AP
Owner, Coastal Vista Design, Inc.

Florida Registered Landscape Architect #6667171
Sanibel Vegetation Certification #15214
Sanibel Mangrove Certification #0504



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PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Glass.

1.3 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.
- C. FBC: Florida Building Code.
- D. Interspace: Space between lites of an insulating-glass unit.

1.4 CODE COMPLIANCE

- A. Exterior openings shall meet the requirements of the Florida Building Code.
 - 1. Provide product evaluations and installation requirements indicating compliance with Code requirements.

1.5 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances to achieve proper safety margins for glazing retention under each design load case, load case combination, and service condition.

1.6 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
2. Review temporary protection requirements for glazing during and after installation.

1.7 ACTION SUBMITTALS

- A. Product Approval: Submit current Product Approval documentation in accordance with the Florida Building Code.
- B. Product Data: For each type of product.
- C. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches square.
 1. Insulating glass.
- D. Glazing Accessory Samples: For sealants, in 12-inch lengths. Install sealant Samples between two strips of material representative in color of the adjoining framing system.
- E. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.
- F. Delegated-Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.8 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Certificates: For glass.
- C. Product Test Reports: For tinted glass, coated glass, insulating glass and glazing sealants, for tests performed by a qualified testing agency.
 1. For glazing sealants, provide test reports based on testing current sealant formulations within previous 36-month period.
- D. Preconstruction adhesion and compatibility test report.
- E. Sample Warranties: For special warranties.

1.9 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For glazing to include in maintenance manuals.

1.10 QUALITY ASSURANCE

- A. Fabricated-Glass Manufacturer Qualifications: A qualified manufacturer of fabricated glass units who is approved and certified by primary glass manufacturer.

- B. Installer Qualifications: A qualified glazing contractor for this Project who is certified under the North American Contractor Certification Program (NACC) for Architectural Glass & Metal (AG&M) contractors and who employs glazing technicians certified under the Architectural Glass and Metal Technician (AGMT) certification program.
- C. Glass Testing Agency Qualifications: A qualified independent testing agency accredited according to the NFRC CAP 1 Certification Agency Program.
- D. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.

1.11 PRECONSTRUCTION TESTING

- A. Preconstruction Adhesion and Compatibility Testing: Test each glass product, sealant, gasket, glazing accessory, and glass-framing member for adhesion to and compatibility with elastomeric glazing sealants.
 - 1. Testing is not required if data are submitted based on previous testing of current sealant products and glazing materials matching those submitted.
 - 2. Determine whether priming and other specific joint-preparation techniques are required to obtain rapid, optimum adhesion of glazing sealants to glass, sealants, gaskets, and glazing channel substrates.
 - 3. Test Samples of each type of material, including joint substrates, shims, sealant backings, secondary seals, and miscellaneous materials.
 - 4. Schedule enough time for testing and analyzing results to prevent delaying the Work.
 - 5. For materials failing tests, submit sealant manufacturer's written instructions for corrective measures including the use of specially formulated primers.

1.12 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Comply with insulating-glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.13 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F.

1.14 WARRANTY

- A. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.

1. Warranty Period: 10 years from date of Substantial Completion.

- B. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.

1. Warranty Period: 10 years from date of Final Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Glass: Obtain tinted and coated glass from single source from single manufacturer.
- B. Source Limitations for Glazing Accessories: For each product and installation method, obtain from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Delegated Design: Engage a qualified professional engineer, to design glazing.
- C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the IBC and ASTM E 1300.
1. Design Wind Pressures: As indicated on Drawings.
2. Design Wind Pressures: Determine design wind pressures applicable to Project according to ASCE/SEI 7, based on heights above grade indicated on Drawings.
- D. Windborne-Debris-Impact Resistance: Exterior glazing shall pass ASTM E1886 missile-impact and cyclic-pressure tests in accordance with ASTM E1996 for Wind Zone Level E (Essential Facility).

1. Large-Missile Test: For glazing located within 30 feet of grade.
- E. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- F. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 1. For monolithic-glass lites, properties are based on units with lites 6 mm thick.
 2. For laminated-glass lites, properties are based on products of construction indicated.
 3. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 4. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
 5. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 6. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.3 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 1. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the IGCC.
- D. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than thickness indicated.
 1. Minimum Glass Thickness for Exterior Lites: 6 mm.
 2. Thickness of Tinted Glass: Provide same thickness for each tint color indicated throughout Project.
- E. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.4 GLASS PRODUCTS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
1. AGC Glass Company North America, Inc.
 2. Cardinal Glass Industries.
 3. Guardian Glass; SunGuard.
 4. Oldcastle Building Envelope.
 5. Pilkington North America.
 6. Viracon, Inc.
 7. Vitro.
- B. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
- C. Heat-Strengthened Float Glass: ASTM C1048, Kind HS (heat strengthened), Type I, Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.

2.5 INSULATING GLASS

- A. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.
1. Sealing System: Dual seal, with manufacturer's standard primary and secondary sealants.
 2. Perimeter Spacer: Manufacturer's standard spacer material and construction.
 3. Desiccant: Molecular sieve or silica gel, or a blend of both.

2.6 LAMINATED GLASS

- A. Laminated Glass: ASTM C 1172. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
1. Construction: Laminate glass with polyvinyl butyral interlayer to comply with interlayer manufacturer's written instructions.
 2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
 3. Interlayer Color: Clear unless otherwise indicated.
- B. Windborne-Debris-Impact-Resistant Laminated Glass: Comply with requirements specified above for laminated glass except laminate glass with the following to comply with interlayer manufacturer's written instructions:
1. Polyvinyl butyral interlayer.

2.7 FIRE RATED GLAZING

- A. Fire Safe Glazing (Fire Rated Glass): Clear fire rated glazing.
 - 1. Manufacturers
 - a. Glaverbel S.A., distributed by InterEdge Technologies
 - b. Oldcastle Glass
 - c. SAFTI *FIRST*
 - d. SCHOTT North America, Inc.
 - e. Nippon Electric Glass Co., Ltd.,
 - f. Vetrotech Saint-Gobain North America Inc.
 - 2. Thickness: As required for fire-ratings indicated.
 - 3. Fire-Protection Rating: As required for the assembly in which glazing material is installed.
 - a. Glazing for Fire-Rated Door and Window Assemblies: Glazing for assemblies that comply with NFPA 80 and that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA.
- B. Impact Safety Rating: As required for the assembly in which glazing material is installed.
 - 1. Glazing products that comply with Category I or II materials, except for hazardous locations where Category II materials are required by 16 CFR 1201 and regulations of authorities having jurisdiction.
- C. Glazing Sealants for Fire-Resistive Glazing Products: Identical to products used in test assemblies to obtain fire-protection rating.
- D. Perimeter Insulation for Fire-Resistive Glazing: Identical to product used in test assembly to obtain fire-resistance rating.

2.8 GLAZING SEALANTS

- A. General:
 - 1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
 - 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
 - 3. Colors of Exposed Glazing Sealants: Match Architect's samples.
- B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Use NT Class as required to meet performance requirements and adhesion testing.

2.9 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
 - 1. AAMA 804.3 tape, where indicated.
 - 2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 - 3. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
 - 1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
 - 2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.10 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
- F. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.11 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 - 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
 - a. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

- B. Clean-cut or flat-grind vertical edges of butt-glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.
- C. Grind smooth and polish exposed glass edges and corners.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine framing glazing, with Installer present, for compliance with the following:
 - 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 - 2. Presence and functioning of weep system.
 - 3. Minimum required face or edge clearances.
 - 4. Effective sealing between joints of glass-framing members.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.
- B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Glazing channel dimensions, as indicated on Drawings, provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust as required by Project conditions during installation.
- C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
- D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction sealant-substrate testing.
- E. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.

- G. Provide spacers for glass lites where the length plus width is larger than 50 inches as follows:
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 - 2. Provide 1/8-inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- H. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- I. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
- K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.

3.4 TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Do not remove release paper from tape until right before each glazing unit is installed.
- F. Apply heel bead of elastomeric sealant.
- G. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.7 CLEANING AND PROTECTION

- A. Immediately after installation remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 - 1. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.
- D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

3.8 GLAZING SCHEDULE

- A. GL-1A – Storefronts and Apparatus Bay Doors: Tinted, Level-E, 1-5/16" Overall thickness insulating, laminated, Low-E Coated glass.
1. Basis of Design Fabricator: Viracon.
 2. Exterior Glass Ply: 1/4" heat treated (Temper where required by Code).
 - a. Coating: VRE7-65 with Azuria Tint #2 surface.
 3. Space: 1/2" aluminum air filled, black finish.
 4. Silicone: Black.
 5. Interior Glass Ply 1: 1/4" clear, heat treated.
 6. Interlayer: 0.180" Sentryglas by Kuraray.
 7. Interior Glass Ply 2: 1/4" clear, heat treated.
 - a. Winter U-Value 0.25.
 - b. Summer U-Value 0.21.
 - c. Solar Heat Gain Coefficient 0.23.
- B. GL-1B - Storefronts: Clear, Level-E, 1-5/16", Overall thickness insulating, laminated, Low-E coated glass.
1. Basis of Design Fabricator: Viracon.
 2. Exterior Glass Ply: 1/4" heat treated (Temper where required by Code).
 - a. Coating: VNE1-63 on #2 surface.
 3. Space: 1/2" VTS argon filled, black finish.
 4. Silicone: Black.
 5. Interior Glass Ply 1: 1/4" clear, heat treated.
 6. Interlayer: 0.180" Sentryglas by Kuraray.
 7. Interior Glass Ply 2: 1/4" clear, heat treated.
 - a. Winter U-Value 0.24.
 - b. Summer U-Value 0.20.
 - c. Solar Heat Gain Coefficient 0.28.

- C. GL-2 - Storefront Entrances: Tinted, Level-E, 1" Overall thickness insulating. laminated, Low-E Coated glass.
 - 1. Basis of Design Fabricator: Viracon.
 - 2. Exterior Glass Ply: 1/4" heat treated (Temper where required by Code).
 - a. Coating: VRE7-65 on #2 surface.
 - 3. Space: 5/16" VTS argon filled, black finish.
 - 4. Silicone: Black.
 - 5. Interior Glass Ply 1: 3/16" clear, heat treated.
 - 6. Interlayer: 0.180" Sentryglas by Kuraray.
 - 7. Interior Glass Ply 2: 3/16" clear, heat treated.
 - a. Winter U-Value 0.28.
 - b. Summer U-Value 0.29.
 - c. Solar Heat Gain Coefficient 0.25.

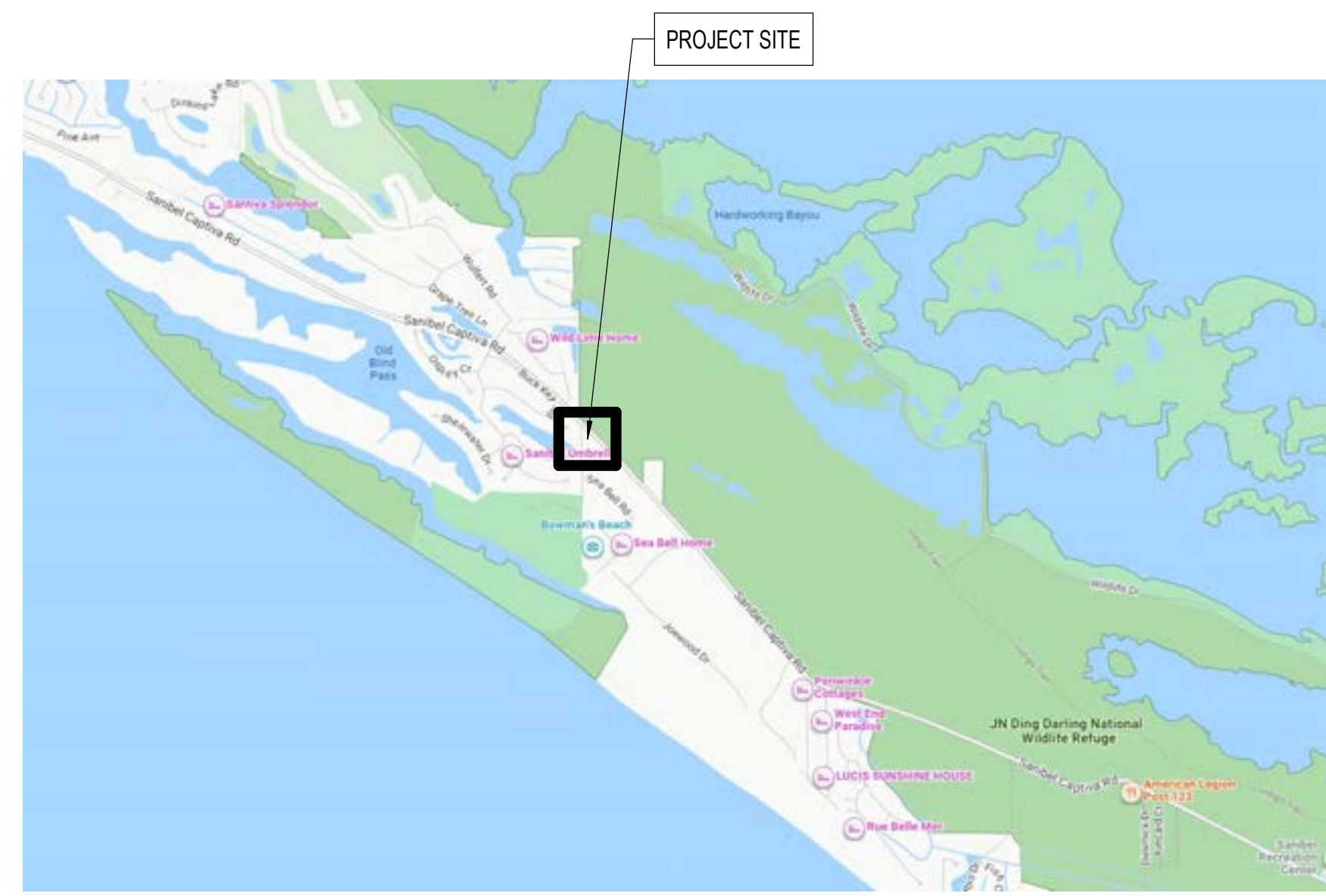
- D. GL-3 - Sliding Windows and Sliding Glass Door: Tinted, Level-ED, 13/16" Overall thickness, insulating, laminated, Low-E coated glass.
 - 1. Basis of Design manufacturer: PGT.
 - 2. Exterior Glass Ply: 3/16" Clear heat treated (Temper where required by Code).
 - 3. Coating: Azure Blue tint on #2 surface.
 - 4. Space: Aluminum air filled, black finish.
 - 5. Silicone: Black.
 - 6. Interior Glass Ply 1: 1/8" Clear heat treated.
 - 7. Interlayer: 0.090" PVB Interlayer.
 - 8. Interior Glass Ply 2: 1/8" Clear heat treated.
 - a. Winter U-Value 0.28.
 - b. Summer U-Value 0.25.
 - c. Solar Heat Gain Coefficient 0.23.

- E. GT: Interior, 1/4-inch fully tempered, clear glass.

- F. FG-90: Interior, clear, fire rated glazing.
 - 1. Basis of Design Manufacturer; SAFTIFIRST.
 - a. 45 minute rated – Superlite II-XL-45.

END OF SECTION 08 80 00

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SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1
Estero, FL 33928, USA
voice (239) 208-4846
www.schenkelshultz.com
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GENERAL	
SHEET NUMBER	SHEET TITLE
G000	COVER
G001	GENERAL INFORMATION AND ABBREVIATIONS
G010	CODE SUMMARY & CALCULATIONS
G011	FLORIDA PRODUCT APPROVALS
G020	UL ASSEMBLIES
G021	UL ASSEMBLIES
G022	UL ASSEMBLIES
G031	PARTITION TYPES & NOTES
G032	TYPICAL PARTITION DETAILS
G101	LIFE SAFETY PLANS

ARCHITECTURAL SITE	
SHEET NUMBER	SHEET TITLE
AS011	DEMOLITION SITE PLAN
AS012	ARCHITECTURAL SITE PLAN
AS013	CONSTRUCTION STAGING PLAN
AS021	SITE PLAN DETAILS
AS022	SITE PLAN DETAILS
AS033	SITE DETAILS - EXISTING STORAGE BUILDING

ARCHITECTURAL	
SHEET NUMBER	SHEET TITLE
A030	SLAB PLAN - APPARATUS BAY
A031	SLAB PLAN - FIRST FLOOR
A032	SLAB PLAN - SECOND FLOOR
A100	ARCHITECTURAL PLAN - APPARATUS BAY
A101	ARCHITECTURAL PLAN - FIRST FLOOR
A102	ARCHITECTURAL PLAN - SECOND FLOOR
A103	ARCHITECTURAL PLAN - STAIR TOWER
A120	DIMENSION PLAN - APPARATUS BAY
A121	DIMENSION PLAN - FIRST FLOOR
A122	DIMENSION PLAN - SECOND FLOOR
A141	REFLECTED CEILING PLAN - APPARATUS LEVEL & FIRST FLOOR
A142	REFLECTED CEILING PLAN - SECOND FLOOR
A151	ROOF PLAN
A152	ROOF PLANS
A160	INTERIOR FINISH SCHEDULE, LEGENDS AND DETAILS
A160-A	FINISH PLAN - APPARATUS BAY
A161	FINISH PLAN - FIRST FLOOR
A162	FINISH PLAN - SECOND FLOOR
A171	EQUIPMENT AND FURNITURE PLANS
A190	SIGNAGE TYPES & NOTES
A200	EXTERIOR FINISH LEGEND
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A251	INTERIOR ELEVATIONS
A252	INTERIOR ELEVATIONS
A253	INTERIOR ELEVATIONS
A254	INTERIOR ELEVATIONS
A255	INTERIOR ELEVATIONS
A301	BUILDING SECTIONS
A302	BUILDING SECTIONS
A303	BUILDING SECTIONS

ARCHITECTURAL	
SHEET NUMBER	SHEET TITLE
A304	BUILDING SECTIONS
A305	BUILDING SECTIONS
A351	WALL SECTIONS
A352	WALL SECTIONS
A353	WALL SECTIONS
A354	WALL SECTIONS
A355	WALL SECTIONS
A401	ENLARGED FLOOR PLANS
A441	ENLARGED RCPS
A460	TOILET ACCESSORY SCHEDULE & MOUNTING HEIGHTS
A461	ENLARGED FLOOR PLANS - TOILET
A481	ENLARGED STAIR PLANS - INTERIOR
A482	ENLARGED STAIR PLANS - EXTERIOR
A483	STAIR / LIFT SECTIONS
A484	ENLARGED STAIR SECTIONS
A485	ENLARGED STAIR SECTIONS
A500	DOOR SCHEDULE, DOOR AND FRAME TYPES
A501	STOREFRONT, WINDOWS AND LOUVER TYPES, AND DETAILS
A510	DETAILS - DOOR / WINDOW / LOUVER
A511	DETAILS - DOOR / WINDOW
A512	DETAILS - DOOR / WINDOW
A513	DETAILS - STOREFRONT
A514	DETAILS - STOREFRONT
A521	DETAILS - EXTERIOR
A522	DETAILS - EXTERIOR
A523	DETAILS - EXTERIOR
A524	DETAILS - EXTERIOR
A541	DETAILS - CEILING
A551	DETAILS - ROOF
A552	DETAILS - ROOF
A561	DETAILS - INTERIOR
A562	DETAILS - INTERIOR
A571	MILLWORK & CASEWORK DETAILS
A581	DETAILS - STAIR & LIFT
A582	DETAILS - TYP. STAIR
A583	DETAILS - EXTERIOR STAIR
AR100	ARCHITECTURAL RENDERING - FOR REFERENCE ONLY
AR101	ARCHITECTURAL RENDERING - FOR REFERENCE ONLY
AR102	ARCHITECTURAL RENDERING - FOR REFERENCE ONLY
AR103	ARCHITECTURAL RENDERING - FOR REFERENCE ONLY
AR104	ARCHITECTURAL RENDERING - FOR REFERENCE ONLY
AR105	ARCHITECTURAL RENDERING - FOR REFERENCE ONLY
AR106	ARCHITECTURAL RENDERING - FOR REFERENCE ONLY

STRUCTURAL	
SHEET NUMBER	SHEET TITLE
S001	STRUCTURAL NOTES
S002	STRUCTURAL NOTES / ABBREVIATIONS
S003	WIND PRESSURES
S100	FOUNDATION AND APPARATUS FLOOR PLAN
S101	FIRST FLOOR PLAN
S121	SECOND FLOOR AND LOW ROOF FRAMING PLAN
S131	MAIN ROOF AND TOWER ROOF FRAMING PLANS
S201	SCHEDULES & DETAILS
S301	FOUNDATION & SLAB ON GRADE (SOG) DETAILS
S302	FOUNDATION / GROUND FLOOR SECTIONS & DETAILS
S303	GROUND FLOOR SECTIONS / CONC WALL ELEVATION
S304	TYPICAL MASONRY (CMU) DETAILS
S305	STEEL FRAMING SECTIONS & DETAILS
S306	COMPOSITE & SECOND FLOOR SECTIONS & DETAILS
S307	ROOF SECTIONS & DETAILS
S308	SECTIONS AND DETAILS

MECHANICAL	
SHEET NUMBER	SHEET TITLE
M001	GENERAL NOTES, ABBREVIATIONS AND SYMBOL LEGEND - HVAC
M100	FLOOR PLAN - APPARATUS BAY - HVAC
M101	FLOOR PLAN - FIRST FLOOR - HVAC
M102	FLOOR PLAN - SECOND FLOOR - HVAC
M401	CONTROLS - HVAC
M501	DETAILS - HVAC
M502	DETAILS - HVAC
M601	SCHEDULES - HVAC

PLUMBING	
SHEET NUMBER	SHEET TITLE
P001	GENERAL NOTES, ABBREVIATIONS AND SYMBOL LEGEND - PLUMBING
P100	FOUNDATION FLOOR PLAN - GRAVITY - PLUMBING
P101-A	FLOOR PLAN - FIRST FLOOR - GRAVITY - PLUMBING
P101-B	FLOOR PLAN - FIRST FLOOR - GRAVITY - PLUMBING
P102	FLOOR PLAN - SECOND FLOOR - PLUMBING
P201	SANITARY RISER DIAGRAM - PLUMBING
P202	SANITARY RISER DIAGRAM - PLUMBING
P203	DOMESTIC WATER RISER DIAGRAM - PLUMBING
P204	DOMESTIC WATER RISER DIAGRAM - PLUMBING
P205	COMPRESSED AIR RISER DIAGRAM - PLUMBING
P206	GAS RISER DIAGRAM - PLUMBING
P601	DETAILS - PLUMBING
P602	DETAILS - PLUMBING
P601	SCHEDULES - PLUMBING

FIRE PROTECTION	
SHEET NUMBER	SHEET TITLE
F001	GENERAL NOTES & DESIGN CRITERIA - FIRE PROTECTION
F101	FLOOR PLAN - FIRST FLOOR - FIRE PROTECTION
F102	FLOOR PLAN - SECOND FLOOR - FIRE PROTECTION
F501	DETAILS - FIRE PROTECTION
F502	DETAILS - FIRE PROTECTION
F503	DETAILS - FIRE PROTECTION
F601	SCHEDULE - FIRE PROTECTION

ELECTRICAL	
SHEET NUMBER	SHEET TITLE
E001	GENERAL NOTES & DESIGN CRITERIA - ELECTRICAL
E002	GENERAL NOTES & DESIGN CRITERIA - FIRE ALARM
E003	LIGHTING FIXTURE SCHEDULE - ELECTRICAL
E010	SITE PLAN - ELECTRICAL
E011	SITE PLAN - PHOTOMETRICS
E012	FIXTURES - PHOTOMETRICS
E013	SITE PLAN - BUILDING ATTACHED LIGHTING
E014	FIXTURES - BUILDING ATTACHED LIGHTING
E100	FLOOR PLAN - APPARATUS BAY - LIGHTING
E101	FLOOR PLAN - FIRST FLOOR - LIGHTING
E102	FLOOR PLAN - SECOND FLOOR - LIGHTING
E200	FLOOR PLAN - APPARATUS BAY - POWER
E201	FLOOR PLAN - FIRST FLOOR - POWER
E202	FLOOR PLAN - SECOND FLOOR - POWER
E501	DETAILS - ELECTRICAL
E502	DETAILS - FIRE ALARM
E601	RISER - ELECTRICAL
E701	PANEL SCHEDULES - ELECTRICAL

TECHNOLOGY	
SHEET NUMBER	SHEET TITLE
T000	TECHNOLOGY DUMMY
T001	GENERAL NOTES & DESIGN CRITERIA - TECHNOLOGY
T100	FLOOR PLAN - APPARATUS BAY - TECHNOLOGY
T101	FLOOR PLAN - FIRST FLOOR - TECHNOLOGY
T102	FLOOR PLAN - SECOND FLOOR - TECHNOLOGY

REVISIONS		
MARK	DESCRIPTION	DATE
1	PERMIT COMMENTS	01.15.24

CIVIL	
SHEET NUMBER	SHEET TITLE
C1	COVER SHEET, VICINITY MAP & INDEX
C2	AERIAL & EXISTING CONDITIONS PLAN
C3	DEMOLITION PLAN
C4	SITE LAYOUT, SIGNING & MARKING PLAN
C5	PAVING, GRADING & DRAINAGE PLAN
C6	UTILITY PLAN
C7	TYPICAL SECTIONS
C8	PAVING DETAILS
C9	ISLAND WATER ASSOCIATION UTILITY DETAILS
C10	WATER & SEWER DETAILS
C11	EROSION CONTROL PLAN

LANDSCAPE	
SHEET NUMBER	SHEET TITLE
L-C	COVER
L-EX-1	VEGETATION IMPACTS PLAN
LP-1	CODE REQUIREMENTS PLAN
LP-2	PROPOSED PLANTING PLAN
LP-2A	PROPOSED PLANTING PLAN
LP-3	CODE REQUIRED BUFFERS
LP-4	PLANT SCHEDULE
LP-5	PLANT PALETTE
LP-6	CONCEPT IMAGES
LP-7	LANDSCAPE DETAILS AND NOTES
LP-IR-1	PROPOSED IRRIGATION PLAN
LP-IR-2	IRRIGATION DETAILS AND NOTES



SANIBEL FIRE AND RESCUE STATION 172

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957

100% CONSTRUCTION DOCUMENTS

COMM. NO.: 2023820

01.05.2024

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COMM. NO.: 2023820

ISSUE DATE: 01.05.2024

DRAWN BY: BL

COVER

G000

100% CONSTRUCTION DOCUMENTS

PROJECT SUMMARY	
THIS PROJECT CONSISTS OF A NEW TWO-STORY FIRE STATION FACILITY. THIS BUILDING WILL BE CONSTRUCTED AFTER THE DEMOLITION OF AN EXISTING ONE-STORY FIRE STATION ON THE SITE, AND WILL ADHERE TO THE CURRENT COASTAL DESIGN STANDARDS. THIS WILL BE A RISK CATEGORY IV, LEVEL 'E' ESSENTIAL FACILITY. IN ADDITION TO THE MAIN FIRE STATION AN EXISTING GARAGE USED FOR STORAGE TO BE REFINISHED AND REMAIN.	
EHPA / STORM SHELTER	
THIS PROJECT WILL NOT BE CONSTRUCTED AS AN EHPA OR STORM SHELTER	
APPLICABLE CODES & STANDARDS	
BUILDING:	FLORIDA BUILDING CODE 8TH EDITION (2023)
FIRE / LIFE SAFETY:	FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023) NFPA 1, FLORIDA FIRE PREVENTION CODE - 2024, FLORIDA EDITION NFPA 101, LIFE SAFETY CODE - 2024, FLORIDA EDITION
PLUMBING:	FLORIDA BUILDING CODE 8th EDITION (2023) - PLUMBING FLORIDA BUILDING CODE 8th EDITION (2023) - FUEL GAS
MECHANICAL:	FLORIDA BUILDING CODE 8th EDITION (2023) - MECHANICAL
ELECTRICAL:	REFER TO ELECTRICAL SHEET E001
ENERGY:	FLORIDA BUILDING CODE 8th EDITION (2023) - ENERGY CONSERVATION
ACCESSIBILITY:	FLORIDA BUILDING CODE 8th EDITION (2023) - ACCESSIBILITY
TESTING FOR HVHZ:	FLORIDA BUILDING CODE 8th EDITION (2023) - TEST PROTOCOLS
OTHER:	CITY OF SANIBEL LAND DEVELOPMENT CODE

AUTHORITIES HAVING JURISDICTION	
BUILDING:	CITY OF SANIBEL FLORIDA BUILDING DEPARTMENT
FIRE / LIFE SAFETY:	SANIBEL FIRE AND RESCUE DEPARTMENT

OCCUPANCY CLASSIFICATION	
(FBC CHAPTER 3 - Use & Occupancy Classification) (FBC CHAPTER 5 - General Building Heights & Areas) (NFPA 101 CHAPTER 6 - Classification Occupancy)	
MIXED USE OCCUPANCY PER FBC SECTION 508 & NFPA 101 - 1.14.3 BUSINESS 'B' OCCUPANCY RESIDENTIAL 'R-2' OCCUPANCY STORAGE 'S-2' OCCUPANCY - FIRE APPARATUS BAY AND STORAGE AREAS	

CONSTRUCTION TYPE	
(FBC CHAPTER 6 - Types of Construction)	
BUILDING:	TYPE V-B CONSTRUCTION, SPRINKLERED (FBC TABLE 601)

WIND ZONE	
(FBC SECTION 1609 - Wind Loads)	
WIND ZONE 4:	V _{ult} WIND SPEED: 160 MPH > X < 190 MPH; EXPOSURE 'D', RISK CATEGORY IV BUILDING ENVELOPE ELEMENTS TO BE MISSILE LEVEL 'E' APPARATUS BAY DOORS TO BE MISSILE LEVEL 'D' PER SECTION 1609.1.2.3.

FIRE RESISTANCE OF BLDG. ELEMENTS BY CONSTRUCTION TYPE	
PRIMARY STRUCT. FRAME:	0 HOURS
BEARING WALLS - EXT:	0 HOURS
BEARING WALLS - INT:	0 HOURS
NONBEARING WALLS - EXT:	SEE TABLE 602
NONBEARING WALLS - INT:	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS
CORRIDORS:	SMOKE PARTITION (NFPA 101 - 8.4)
EXIT STAIRS:	1 HOUR (FBC 1023.2 / NFPA 101 - 7.1.3.2.1(1)) WHERE CONNECTING LESS THAN FOUR STORIES
FLOOR OPENINGS / SHAFTS:	1 HOUR (FBC 707.5, 707.6, & 713.4 / NFPA 101 - 8.6.5(2)) WHERE CONNECTING LESS THAN FOUR STORIES
NOTE: REFER TO SHEETS G020-G022 FOR UL ASSEMBLIES TO PROVIDE REQUIRED FIRE RESISTANCE OF BLDG. ELEMENTS	

BUILDING HEIGHT BY CONSTRUCTION TYPE	
(FBC CHAPTER 5 - General Building Heights and Areas)	
ALLOWABLE HEIGHT:	3 STORIES / 60 FT. (Mixed Occupancies per 504.2 applied)
ACTUAL BUILDING HEIGHT:	3 STORIES / 45' - 0"
NOTE: NEW GROUP 'R' OCCUPANCIES ARE REQUIRED TO BE PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM PER FBC SECTION 903.2.8.	

BUILDING AREA BY CONSTRUCTION TYPE	
(FBC CHAPTER 5 - General Building Heights and Areas)	
ALLOWABLE BUILDING AREA:	27,000 SF (GROUP 'B' OCCUPANCY WITH SPRINKLER SYSTEM)
ACTUAL BUILDING AREA:	12,912 GSF
APPARATUS BAY (UNCONDITIONED):	3,860 GSF
FIRST FLOOR:	1,497 GSF
SECOND FLOOR:	3,525 GSF
UNCONDITIONED AREAS:	3,130 GSF

OPENING PROTECTIVES IN FIRE RESISTANT CONSTRUCTION	
(FBC TABLE 716.5)	
CONSTRUCTION TYPE	FIRE RESISTANCE RATING
1 - HOUR FIRE BARRIER:	3/4 HOUR
2 - HOUR FIRE BARRIER:	1 1/2 HOUR
1-HOUR EXIT ENCLOSURE:	1 HOUR
SMOKE PARTITION:	N/A

SEPARATION FROM HAZARDS		
(NFPA 101 - 8.7.1.2)		
ROOM OR AREA	FIRE RESISTANCE RATING	STANDARD
MECHANICAL ROOMS	SMOKE PARTITION W/ SPRINKLER	NFPA 101
ELECTRICAL ROOMS	SMOKE PARTITION W/ SPRINKLER	NFPA 101
JANITOR CLOSETS	SMOKE PARTITION W/ SPRINKLER	NFPA 101
STORAGE ROOMS	SMOKE PARTITION W/ SPRINKLER	NFPA 101

INTERIOR FINISHES	
(per NFPA 101 CHAPTER 10 - more stringent than FBC)	
CONSTRUCTION TYPE	FIRE RESISTANCE RATING
EXITS	CLASS A
EXIT ACCESS CORRIDORS	CLASS B
OTHER THAN EXITS	CLASS C
LOW HEIGHT PARTITIONS	CLASS C (SEE NOTE 1)
INTERIOR FLOOR FINISHES	CLASS II
NOTES:	
1. PARTITIONS NOT EXCEEDING 60 INCHES AND IN LOCATIONS OTHER THAN EXITS	

OCCUPANT LOADS		
(FBC SECTION 1004 / NFPA 101 - 7.3)		
THE CALCULATED OCCUPANT LOAD RESULTS IN A TOTAL BUILDING POPULATION FOR EGRESS OF 54 PERSONS AS INDICATED BELOW. REFER TO EGRESS CAPACITY TABLES BELOW FOR EGRESS BY FLOOR OR AREA. REFER TO THE LIFE SAFETY DRAWINGS FOR THE OCCUPANCY SCHEDULES.		
LEVEL	OCCUPANT LOAD	PROVIDED EGRESS
APPARATUS LEVEL	19 PERSONS	170 PERSONS
FIRST FLOOR	10 PERSONS	340 PERSONS
SECOND FLOOR	25 PERSONS	340 PERSONS
TOTAL CAPACITY FOR EGRESS		850 PERSONS
NOTE: OCCUPANCY LOADS CALCULATED BY MORE STRINGENT CONCENTRATION OR OCCUPANCY PER FBC SECTION 508.3.		

EGRESS CAPACITY		
REFER TO THE LIFE SAFETY DRAWINGS FOR THE LOCATION AND CAPACITY OF ALL EGRESS COMPONENTS		
EXITS		
LEVEL	EXIT WIDTH - REQUIRED	EXIT WIDTH - PROVIDED
APPARATUS LEVEL	19 PERSONS X 0.2" = 3.8 INCHES	170 INCHES
FIRST FLOOR	10 PERSONS X 0.2" = 2 INCHES	340 INCHES
SECOND FLOOR	25 PERSONS X 0.2" = 5 INCHES	340 INCHES
STAIRS		
LEVEL	STAIR WIDTH - REQUIRED	STAIR WIDTH - PROVIDED
APPARATUS LEVEL	N / A	N / A
FIRST FLOOR	10 PERSONS X 0.3" = 3 INCHES	50 INCHES
SECOND FLOOR	25 PERSONS X 0.3" = 7.5 INCHES	91 INCHES

EGRESS COMPONENTS	
MIN. NUMBER OF EXITS:	3 (PER FBC TABLE 1006.2.1 AND 1006.3.2)
MAX. TRAVEL DISTANCE:	100 FT. (PER FBC TABLE 1017.2 & NFPA 101 - 28.2.6.3.1)
MAX. COMMON PATH OF TRAVEL:	75 FT. - SPRINKLERED (PER FBC TABLE 1006.2.1 & NFPA 101 - 28.2.5.2.1)
MAX. DEAD END CORRIDOR:	50 FT. - SPRINKLERED (PER FBC SECTION 1020.5 & NFPA 101 - 28.2.5.3.1)
MIN. CORRIDOR WIDTH:	NOT LESS THAN 44" (PER NFPA 101 - 28.2.3.3 - MORE STRINGENT)
MIN. STAIR WIDTH:	0.3" PER PERSON (PER FBC 1005.3.1 & NFPA 101 - 7.3.3.1 OR 7.3.3.2) BUT NO LESS THAN 44" (PER FBC SECTION 1011.2)
MIN. DOOR WIDTH:	0.2" PER PERSON (PER FBC 1005.3.2 & NFPA 101 - 7.3.3.1 OR 7.3.3.2) BUT NO LESS THAN 32" (PER FBC SECTION 1010.1.1 AND NFPA 101 - 7.2.1.2.3.2)
LIFT LOBBY	
(NFPA 101 - 7.2.13.3)	
EVERY FLOOR SERVED BY THE LIFT SHALL HAVE AN LIFT LOBBY. BARRIERS FORMING THE LIFT LOBBY SHALL HAVE A MINIMUM 1-HOUR FIRE RESISTANCE RATING AND SHALL BE ARRANGED AS A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5.	

PLUMBING FIXTURE CALCULATIONS						
(FBC, PLUMBING SECTION 403)						
403.1. PLUMBING FIXTURES SHALL BE PROVIDED IN THE MINIMUM NUMBER SHOWN IN TABLE 403.1, BASED ON THE ACTUAL USE OF THE BUILDING OR SPACE.						
OCCUPANCY	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAIN	BATHTUB / SHOWER
	MALE	FEMALE	MALE	FEMALE		
BUSINESS	1/25 ≤ 50 OCC. 1/50 > 50 OCC.		1/40 ≤ 80 OCC. 1/80 > 80 OCC.		1 PER 100	-
RESIDENTIAL (DORMITORY)	1 PER 10		1 PER 10		1 PER 100	1 PER 8

REQUIRED FIXTURES	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAIN	BATHTUB / SHOWER
	MALE	FEMALE	MALE	FEMALE		
BUSINESS = 175 OCC. 88 MALE, 88 FEMALE	3	3	3	3	1	-
RESIDENTIAL = 7 OCC. 4 MALE, 4 FEMALE	1	1	1	1	1	1
PROVIDED FIXTURES	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAIN	BATHTUB / SHOWER
	MALE	FEMALE	MALE	FEMALE		
	4		4		1	3

NOTE:
1. SINGLE-USER UNISEX TOILET FACILITIES AND BATHING ROOMS PROVIDED THROUGHOUT BUILDING.
2. SINGLE-USER TOILET AND BATHING FACILITIES WITHIN DECONTAMINATION ROOM PROVIDED AS PART OF REQUIRED FIXTURE COUNT.

FEMA SITE SUMMARY	
BUILDING ADDRESS:	5171 SANIBEL-CAPTIVA ROAD SANIBEL, FLORIDA 33957
F.I.R.M. MAP:	12071C0509G EFFECTIVE NOVEMBER 17, 2022
FLOOD ZONE DESIGNATION:	AE9 (NON-COASTAL)
BASE FLOOD ELEVATION (BFE):	9' - 0"

FLOOD DESIGN		
(ASCE 24-14)		
FLOOD DESIGN CLASS: ASCE 24-14, TABLE 1-1	CLASS 4 (ESSENTIAL FACILITIES)	
	REQUIRED	ELEVATION PROVIDED
MINIMUM ELEVATION OF LOWEST FLOOR: ASCE 24-14, TABLE 2-1	BFE + 2 FT. -OR- DFE -OR- 500-YEAR FLOOD ELEVATION	13' - 0" (500-YEAR FLOOD ELEVATION)
MINIMUM ELEVATION OF FLOOD DAMAGE-RESISTANT MATERIALS: ASCE 24-14, TABLE 5-1	BFE + 2 FT. -OR- DFE -OR- 500-YEAR FLOOD ELEVATION	13' - 0" (500-YEAR FLOOD ELEVATION)
MINIMUM ELEVATION OF UTILITIES AND EQUIPMENT: ASCE 24-14, TABLE 7-1	BFE + 2 FT. -OR- DFE -OR- 500-YEAR FLOOD ELEVATION	13' - 0" (500-YEAR FLOOD ELEVATION)
MINIMUM ELEVATION OF WET FLOODPROOFING: ASCE 24-14, TABLE 6-1	BFE + 2 FT. -OR- DFE -OR- 500-YEAR FLOOD ELEVATION	N/A

FLOOD DESIGN CALCULATIONS	
BASE FLOOD ELEVATION (BFE):	9' - 0"
DESIGN FLOOD ELEVATION (DFE):	BFE + 2' - 0" = 11' - 0"
500-YEAR FLOOD ELEVATION	13' - 0" (TAKEN AS WAVE CREST ELEVATION)
F.I.R.M. PANEL CROSS SECTION: F.I.S. TRANSECT CHART: DISTANCE FROM SHORELINE:	SECTION 43 CHART: 067T 3000' - 0" (APPROX.)
0.2% ANNUAL CHANCE WAVE ENVELOPE ELEVATION (NAVDB8):	13' - 0"

STRUCTURAL DESIGN	
(FBC 7TH ED. 2020)	
RISK CATEGORY: FBC, TABLE 1604.5	IV STRUCTURE (BASED ON USE AS ESSENTIAL FACILITY)
EXPOSURE CATEGORY:	EXPOSURE CATEGORY "C"
ULTIMATE DESIGN WIND SPEED: FBC SECTION 1609.3 FBC FIGURE 1609.3(3)	STRUCTURAL DESIGN WILL ASSUME V _{ULT} = 190 M.P.H.
PROTECTION OF OPENINGS: FBC SECTION 1609.1.2	IN WIND-BORNE DEBRIS REGIONS, GLAZED OPENINGS IN BUILDINGS SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT-RESISTANT COVERING MEETING THE REQUIREMENTS OF ANSIDASMA 115 OR TAS 201, 202, OR 203.
ALL GLAZING DESIGNED TO BE IMPACT-RATED TO LEVEL 'E' FOR SMALL AND LARGE MISSILE TESTS.	

FLOOD VENT CALCULATIONS		
BASIS-OF-DESIGN PRODUCT: SMART VENT MODEL 1540-520" INSULATED FLOOD VENT		
FLOOD COVERAGE:	200 S.F. FLOOR AREA	
	VENTS REQUIRED	VENTS PROVIDED
STORAGE BUILDING: 773 S.F.	4	4
APPARATUS BAY: 3,359 S.F.	17	18
STAIR TOWER: 174 S.F.	1	2
NOTE:		
1. FLOOD VENTS WILL BE LOCATED AND INSTALLED IN EXTERIOR WALLS PER PLAN. SEE EXTERIOR ELEVATIONS FOR MULTIFRAME VENTS AS REQUIRED TO MEET FLOOD DESIGN CALCULATIONS.		
2. SEE STRUCTURAL DRAWINGS FOR MASONRY WALL OPENING SIZE AND DETAILS.		



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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ISSUE DATE: 01.05.2024
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CODE SUMMARY & CALCULATIONS

G010

100% CONSTRUCTION DOCUMENTS

NOT RELEASED FOR CONSTRUCTION

CATEGORY	SUBCATEGORY	MANUFACTURER	DOCUMENTATION TYPE (PER FLORIDA ADMINISTRATIVE CODE 9B-72.070)		IMPACT RESISTANT	DESIGN PRESSURE	APPROVAL / EXPIRATION DATE
		PRODUCT NAME / NUMBER	STATE OF FLORIDA APPROVAL NO.	METHOD (1 OR 2), LETTER CODE			
WINDOWS	HORIZONTAL SLIDER	PGT INDUSTRIES, INC. SERIES 'HR7710A' ALUMINUM ROLLER WINDOW	FL 242.4 R33	METHOD 1, OPTION A	YES	+65.0 -65.0	08.18.2023
PANEL WALLS	STOREFRONT	YKK AP AMERICA *YHS 50FT ALUMINUM STOREFRONT (MISSILE LEVEL E)	FL 14218.1 R14	METHOD 1, OPTION D	YES	+70.0 -90.0	07.25.2023
SKYLIGHTS		NO PRODUCTS IN THIS CATEGORY.					
EXTERIOR DOORS	SWINGING EXTERIOR DOOR ASSEMBLIES	SCHLAGE LOCK COMPANY, LLC / ALLEGION OUTSWING SINGLE GLAZED STEEL DOOR	FL 16740.4 R9	METHOD 1, OPTION D	YES	+70.0 -70.0	12.12.2023
	SWINGING EXTERIOR DOOR ASSEMBLIES	SCHLAGE LOCK COMPANY, LLC / ALLEGION OUTSWING DOUBLE FLUSH STEEL DOOR	FL 16740.3 R9	METHOD 1, OPTION D	YES	+107.0 -107.0	12.12.2023
	SWINGING EXTERIOR DOOR ASSEMBLIES	YKK AP AMERICA SERIES '35H' OUTSWING ALUMINUM DOOR	FL 16554.2 R13	METHOD 1, OPTION D	YES	+90.0 -90.0	07.25.2023
	ROLL-UP EXTERIOR DOOR ASSEMBLIES	THE COOKSON COMPANY SERIES 'ESD' ROLL-UP STEEL DOOR	FL 17421.1 R5	METHOD 1, OPTION D	YES	+120.0 -120.0	08.21.2023
FOUR-FOLD EXTERIOR DOOR ASSEMBLIES	DOOR ENGINEERING AND MANUFACTURING, INC. 'FF701' HURRICANE SERIES FOUR-FOLD DOOR	FL 32280.3 R3	METHOD 1, OPTION D	YES	+120.0 -120.0	02.09.2021	
	SLIDING EXTERIOR DOOR ASSEMBLIES	PGT INDUSTRIES, INC. 'SGD-770' SLIDING GLASS DOOR	FL 251.4 R39	METHOD 1, OPTION A	YES	+90.0 -130.0	08.18.2023
	SECTIONAL EXTERIOR DOOR ASSEMBLIES	OVERHEAD DOOR CORPORATION WINDSTORM SERIES 7565' SECTIONAL DOOR	FL 16798.8 R8	METHOD 1, OPTION D	YES	+64.0 -72.0	11.07.2023
SHUTTERS	FABRIC STORM PANELS	CUSTOM HURRICANE PRODUCTS, INC. 'SUPERMAX' 27-MIL ROLL-DOWN IMPACT SCREEN	FL 16380.1 R4	METHOD 1, OPTION D	NO	+75.0 -75.0	10.17.2023
ROOFING	SINGLE-PLY ROOF SYSTEMS	SEAMAN CORPORATION FIBERTITE ROOF SYSTEMS	FL 4930.1 R22	METHOD 1, OPTION C	YES	+N/A -572.5	01.02.2024
	METAL ROOF	BERRIDGE MANUFACTURING COMPANY 'ZEE-LOCK DOUBLE-LOCK' WITH ZEE-CLIP	FL 11241.6 R8	METHOD 1, OPTION A	YES	+N/A -191.0	10.22.2023
PANEL WALLS	WALL LOUVER	GREENHECK FAN CORPORATION 'EHH-601D' HURRICANE LOUVER	FL 10088.1 R10	METHOD 1, OPTION D	YES	+150.0 -150.0	10.16.2023
STRUCTURAL COMPONENTS	PRODUCTS INTRODUCED AS A RESULT OF NEW TECHNOLOGY	SMART VENT PRODUCTS, INC. 'MODEL 1540-520' INSULATED FLOOD VENT	FL 5822.3 R9	METHOD 2, OPTION B	YES	+100.0 -100.0	10.17.2023
NEW & INNOVATIVE BUILDING ENVELOPE PRODUCTS (OTHER)		NO PRODUCTS IN THIS CATEGORY.					

GENERAL NOTES:

- INCLUSION OF "APPROVED PRODUCTS" OR ASSOCIATED INFORMATION AND DOCUMENTATION IN THIS SCHEDULE OR BY REFERENCE IN THE CONSTRUCTION DOCUMENTS DOES NOT IMPLY THAT SCHENKELSHULTZ OR ITS SUBCONSULTANTS HAVE EITHER PRODUCED OR CREATED THE INFORMATION CONTAINED HEREIN. CONSEQUENTLY, SCHENKELSHULTZ AND ITS SUBCONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY INFORMATION GIVEN RELATIVE TO "APPROVED PRODUCTS."
- RESPONSIBILITY FOR ANY PRODUCTS PERFORMANCE RELATIVE TO STRUCTURAL INTEGRITY DURING HURRICANES BASED ON EVALUATIONS OF CODE COMPLIANCE CONDUCTED BY STATE APPROVED ENTITIES LIES SOLELY WITH THE MANUFACTURERS OF THE ABOVE LISTED PRODUCTS.
- INCLUSION OF A PRODUCT IN THIS SCHEDULE DOES NOT IMPLY OR PRESUME THAT THE PRODUCT LISTED WILL BE INSTALLED IN THIS PROJECT. ALTERNATE PRODUCTS COMPLYING WITH CODE REQUIREMENTS MAY BE UTILIZED UPON EVALUATION, ACCEPTANCE, AND APPROVAL BY THE BUILDING DEPARTMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT INFORMATION AND DOCUMENTATION THAT MAY BE REQUIRED BY THE BUILDING DEPARTMENT FOR THE ALTERNATE PRODUCTS EVALUATION AND APPROVAL.
- REFER TO STRUCTURAL DRAWINGS FOR APPLICABLE WIND SPEED CLASSIFICATION OF PROJECT.
- PROVIDE HARDWARE OR GLAZING THAT HAS BEEN TESTED WITH AND INCLUDED IN EACH SPECIFIC FLORIDA PRODUCT APPROVAL, AND ABLE TO WITHSTAND THE APPLICABLE WIND PRESSURE INDICATED ON THE STRUCTURAL DRAWINGS - NO EXCEPTIONS.



SANIBEL FIRE & RESCUE DISTRICT
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**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
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1	PERSET COMMENTS	10.14.24

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**FLORIDA PRODUCT
APPROVALS**

G011

100% CONSTRUCTION DOCUMENTS

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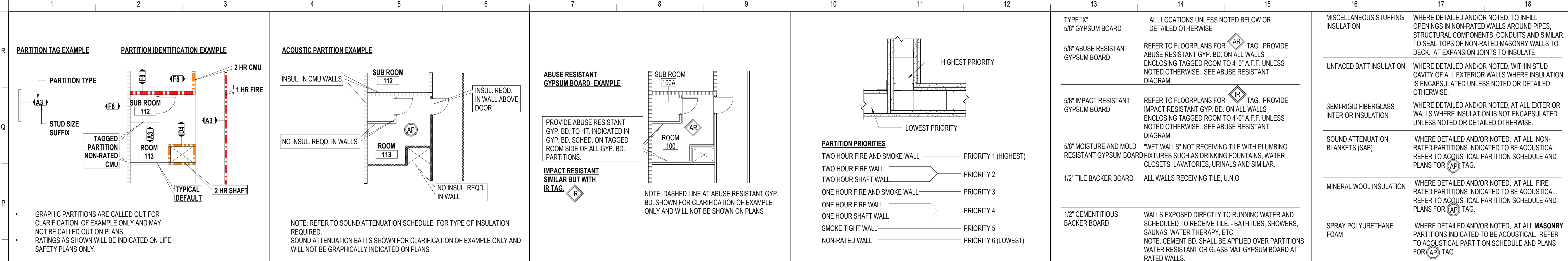
SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

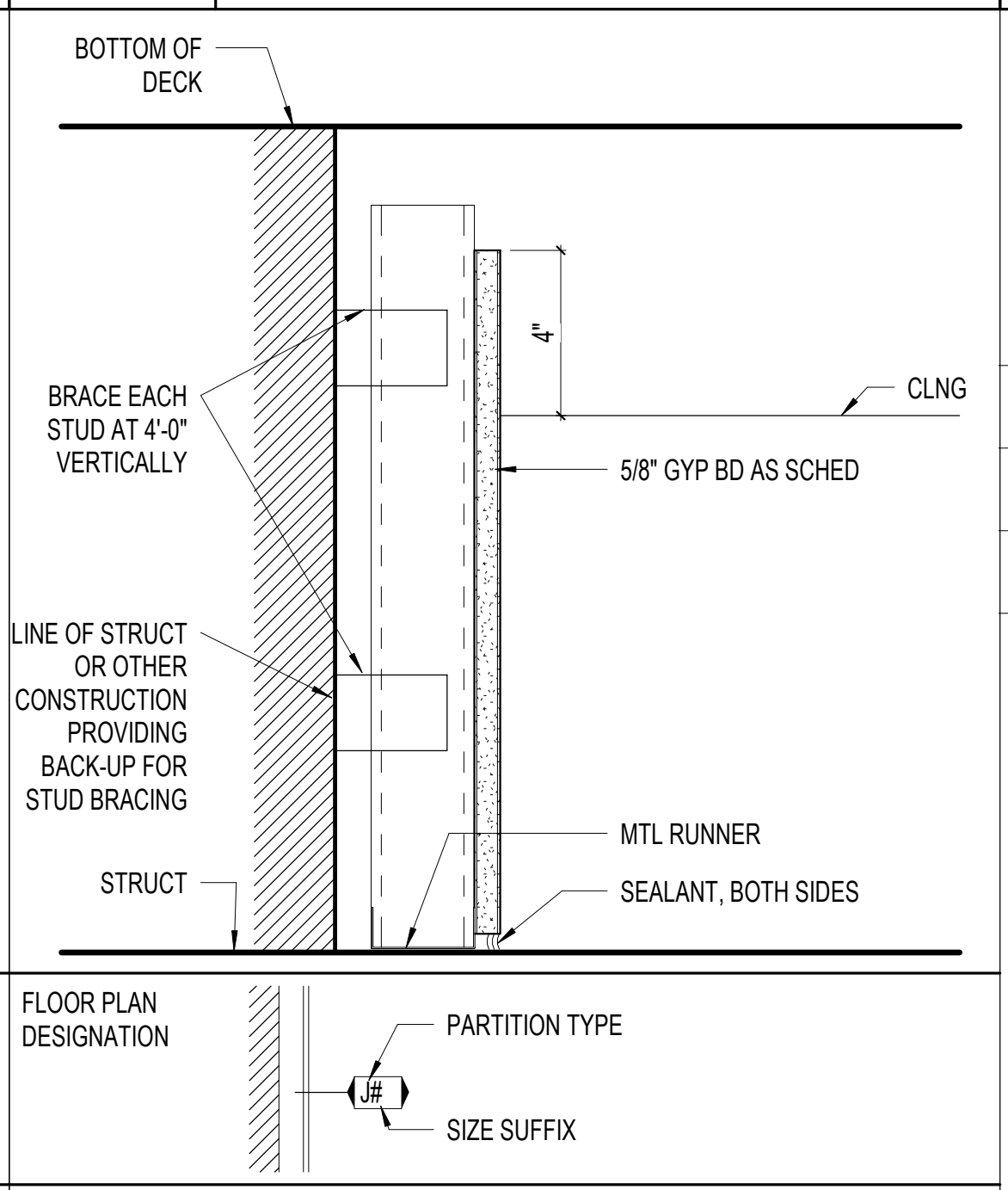
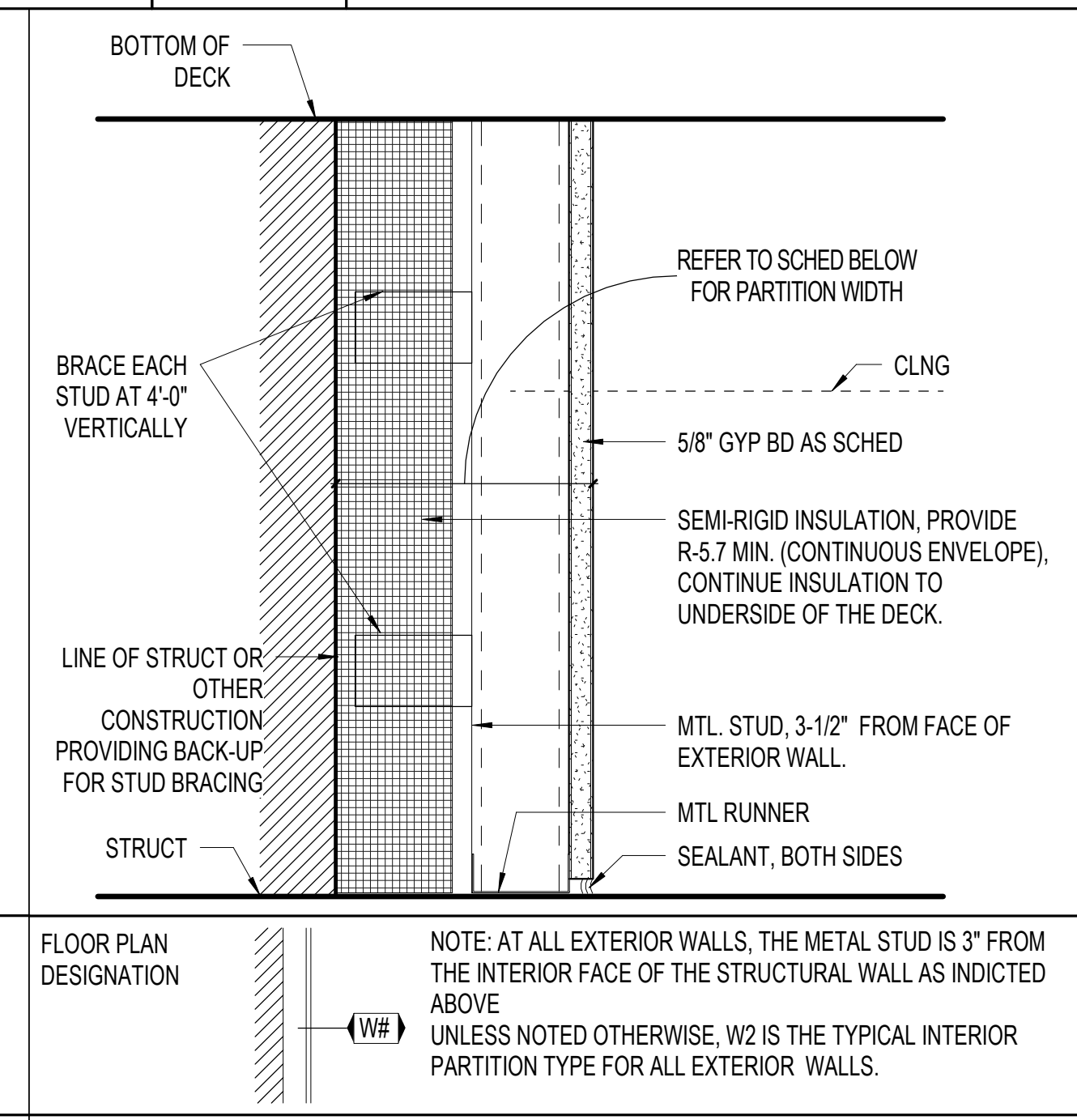
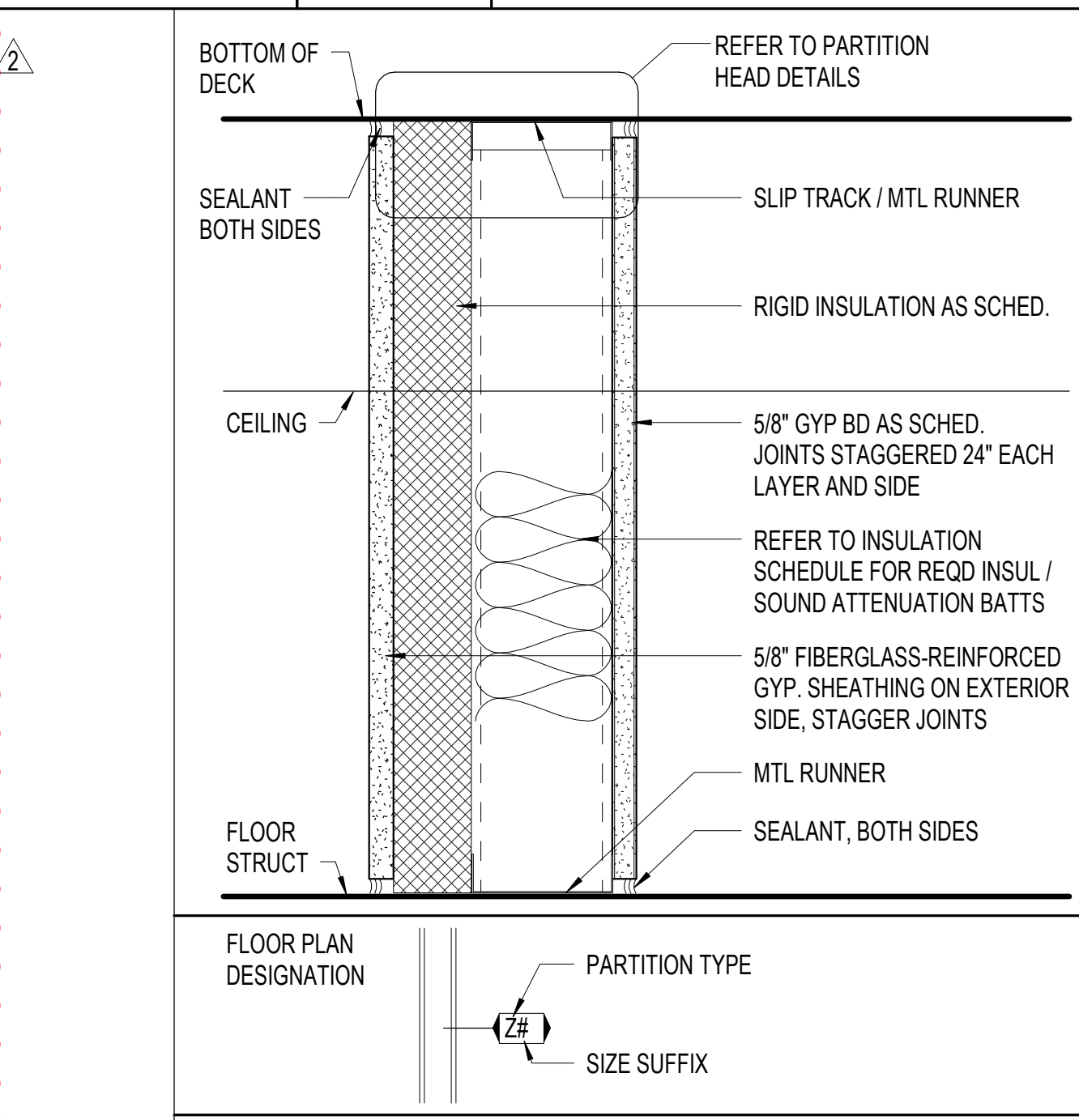
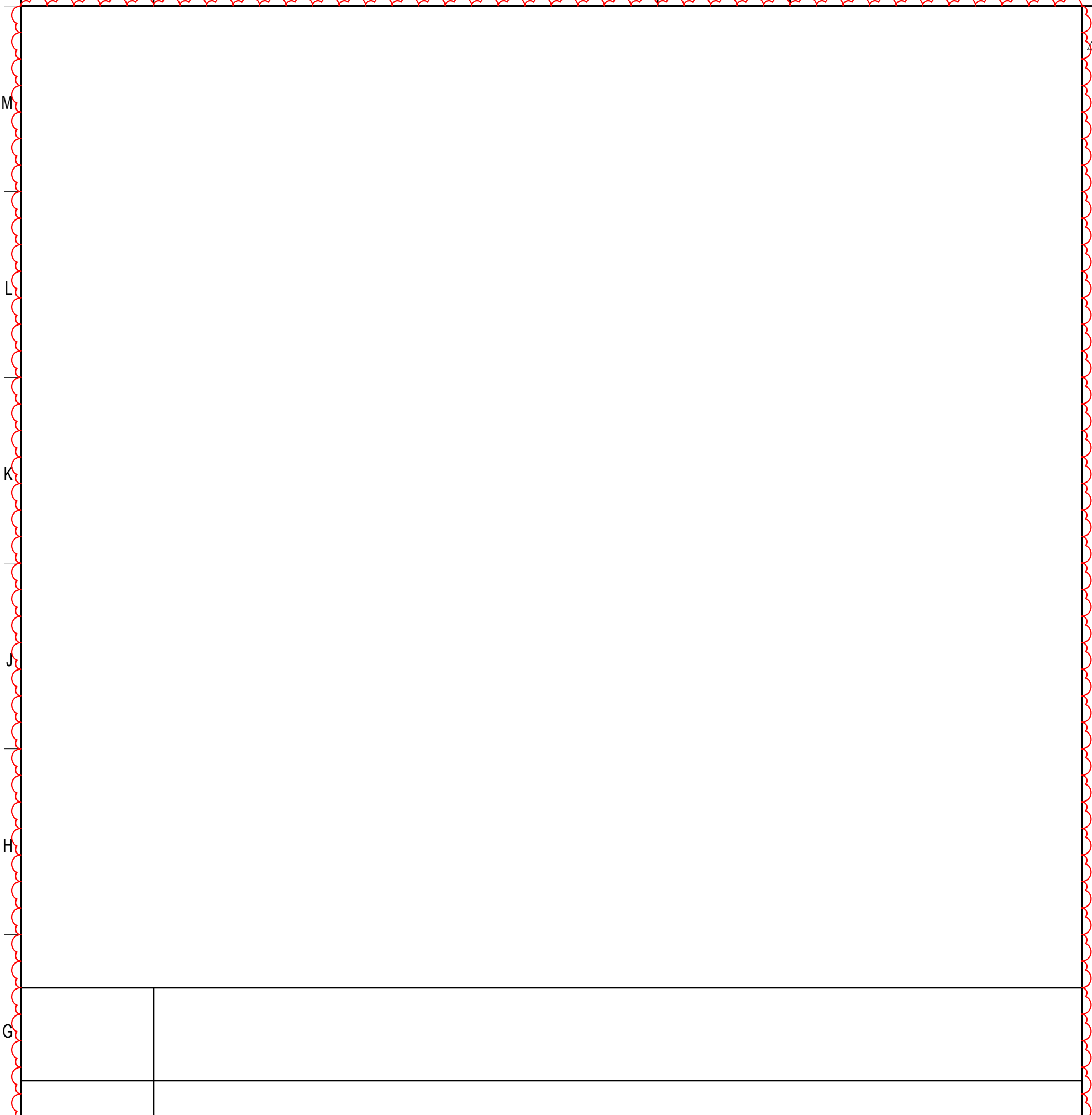
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PARTITION ID DIAGRAM		ACOUSTIC PARTITION DIAGRAM		ABUSE RESISTANT GYP. BD. DIAGRAM		PARTITION PRIORITY DIAGRAM		GYPSUM BOARD SCHEDULE		INSULATION SCHEDULE	
NOT TO SCALE		NOT TO SCALE		NOT TO SCALE		NOT TO SCALE		NOT TO SCALE		NOT TO SCALE	



DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
1	1 5/8"	4 7/8"	*REFER TO UL FOR MIN. GYP BD THICKNESS AND REQD INSULATION.
2	2 1/2"	6 7/8"	
3	3 5/8"	7 1/4"	
4	4"	9 1/4"	
6	6"	11 1/4"	
8	8"	11 1/4"	

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
1	1 5/8"	5 3/4"	NOTE: WALLS WITH PLASTER FINISH ARE IDENTIFIED WITH "W#P" THICKNESS IS NOT SHOWN FOR CLARITY IN FLOOR PLAN
2	2 1/2"	7 3/4"	
3	3 5/8"	8 1/4"	
4	4"	10 1/4"	
6	6"	10 1/4"	

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

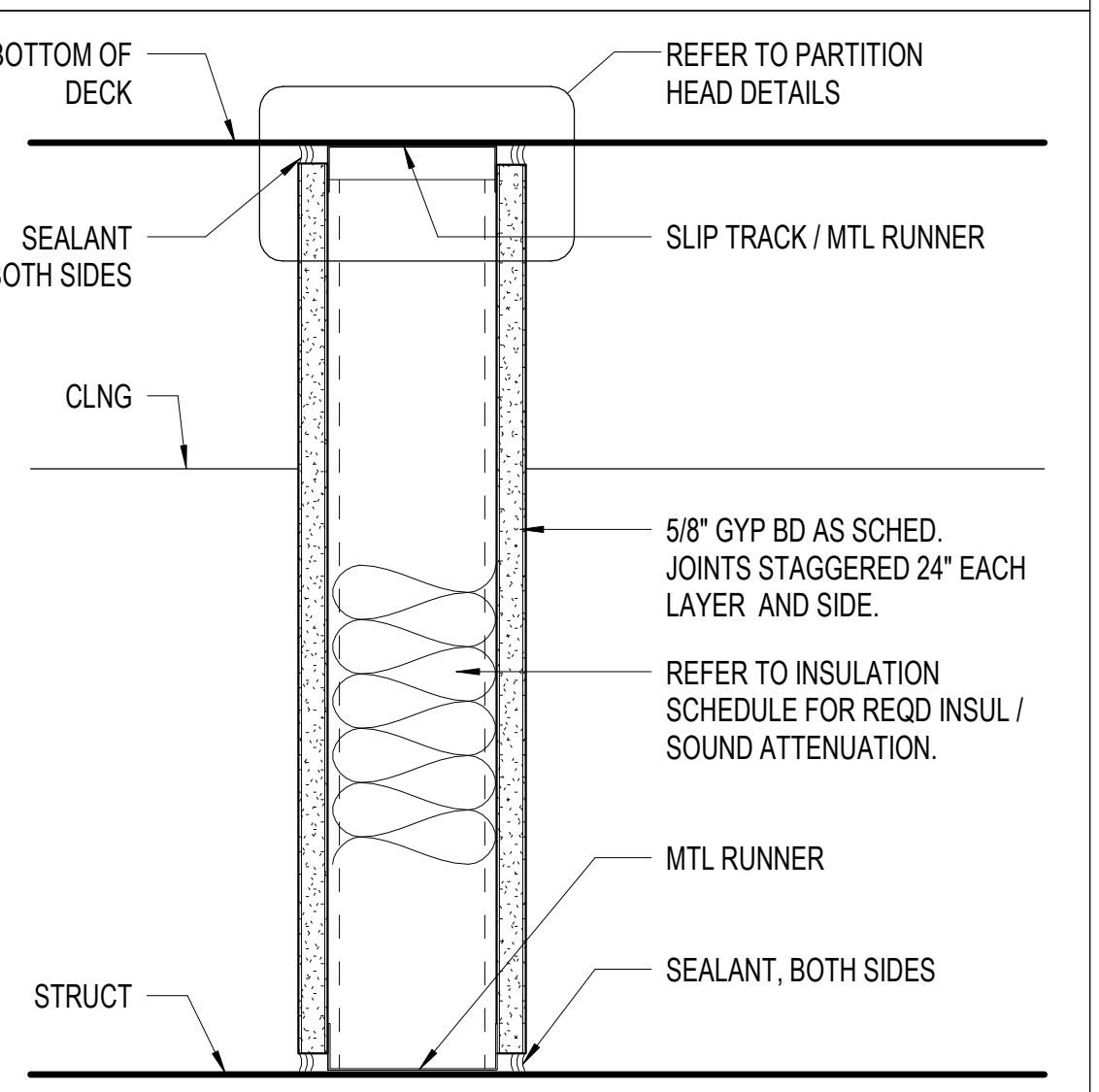
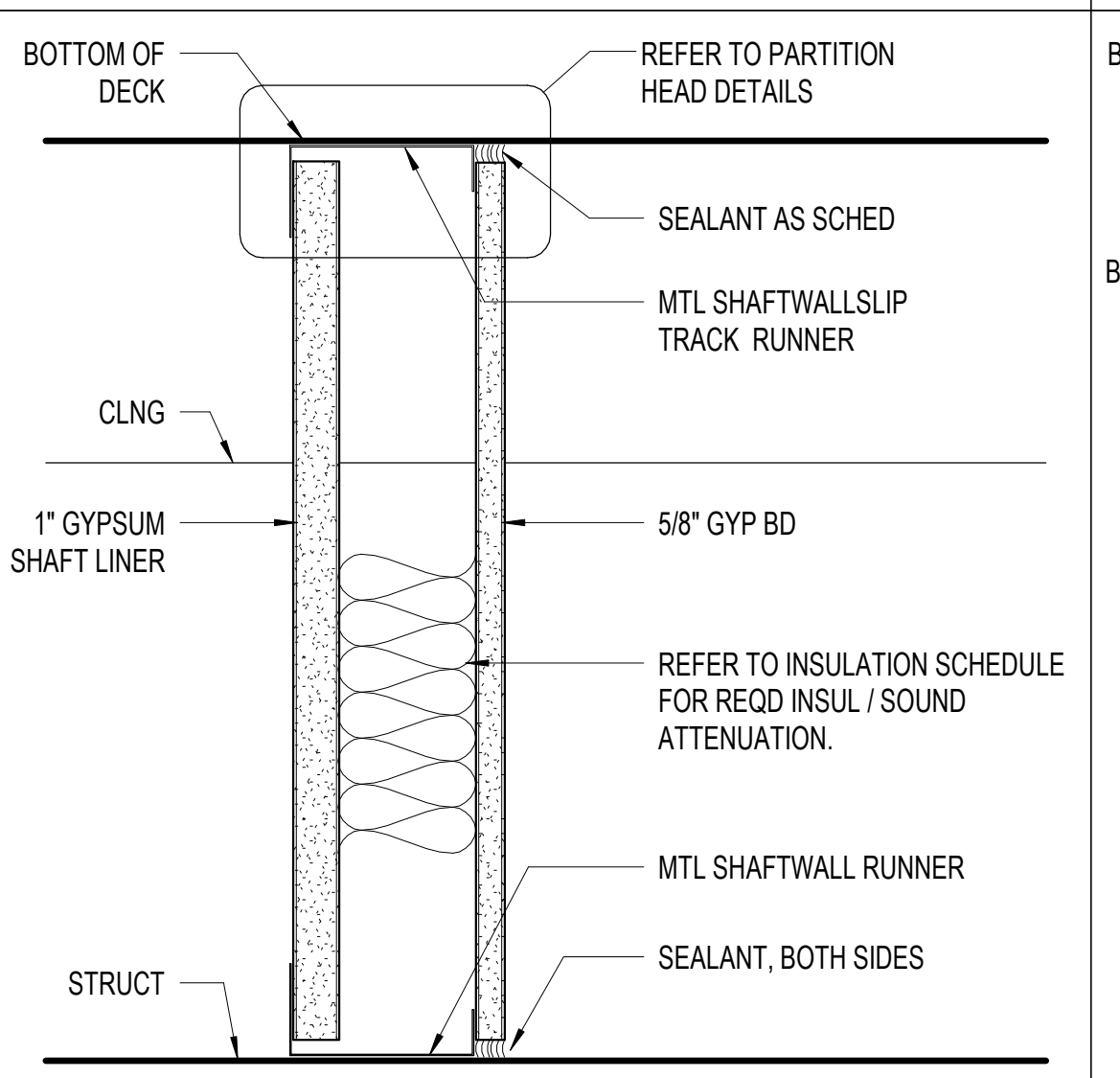
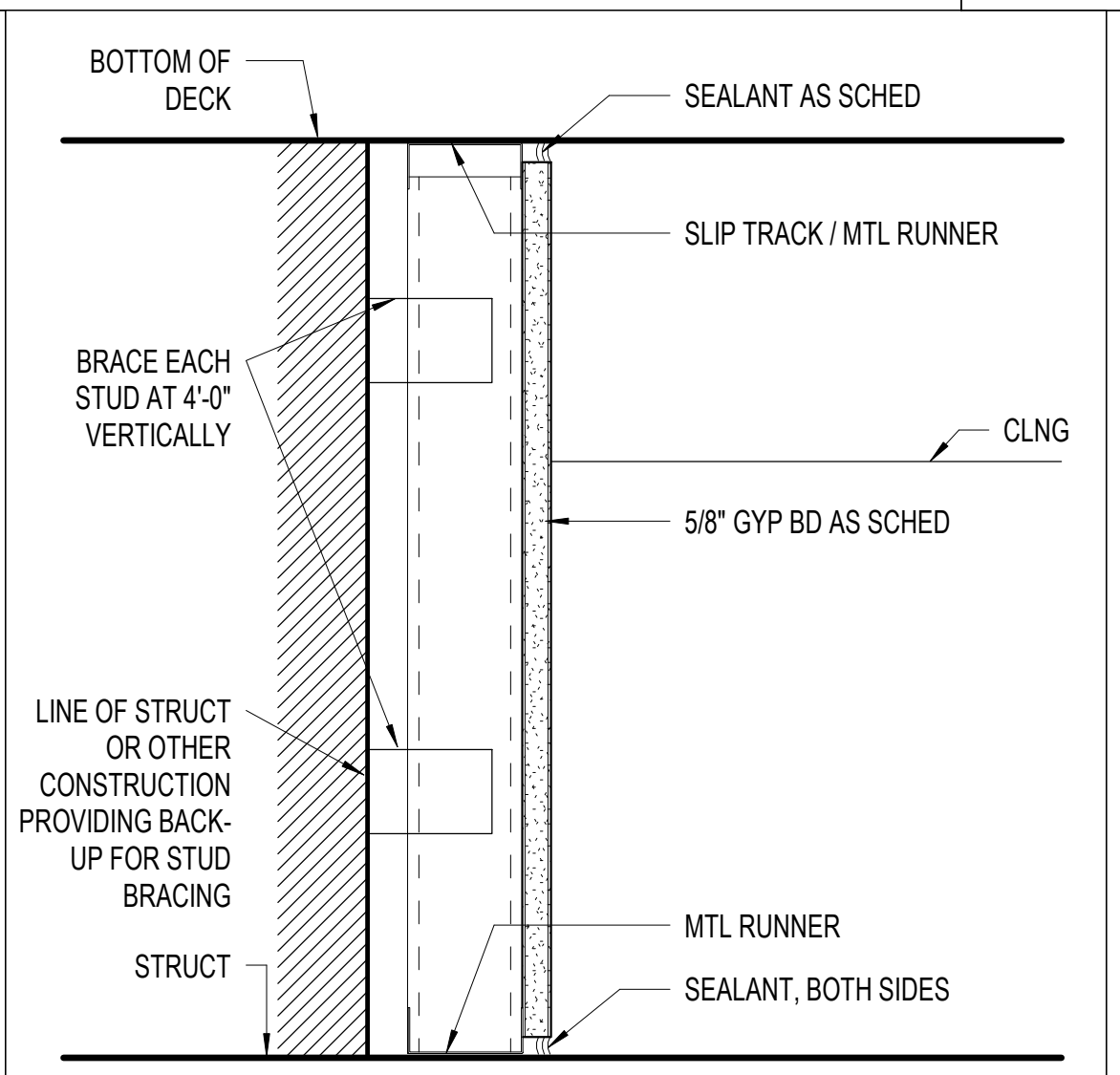
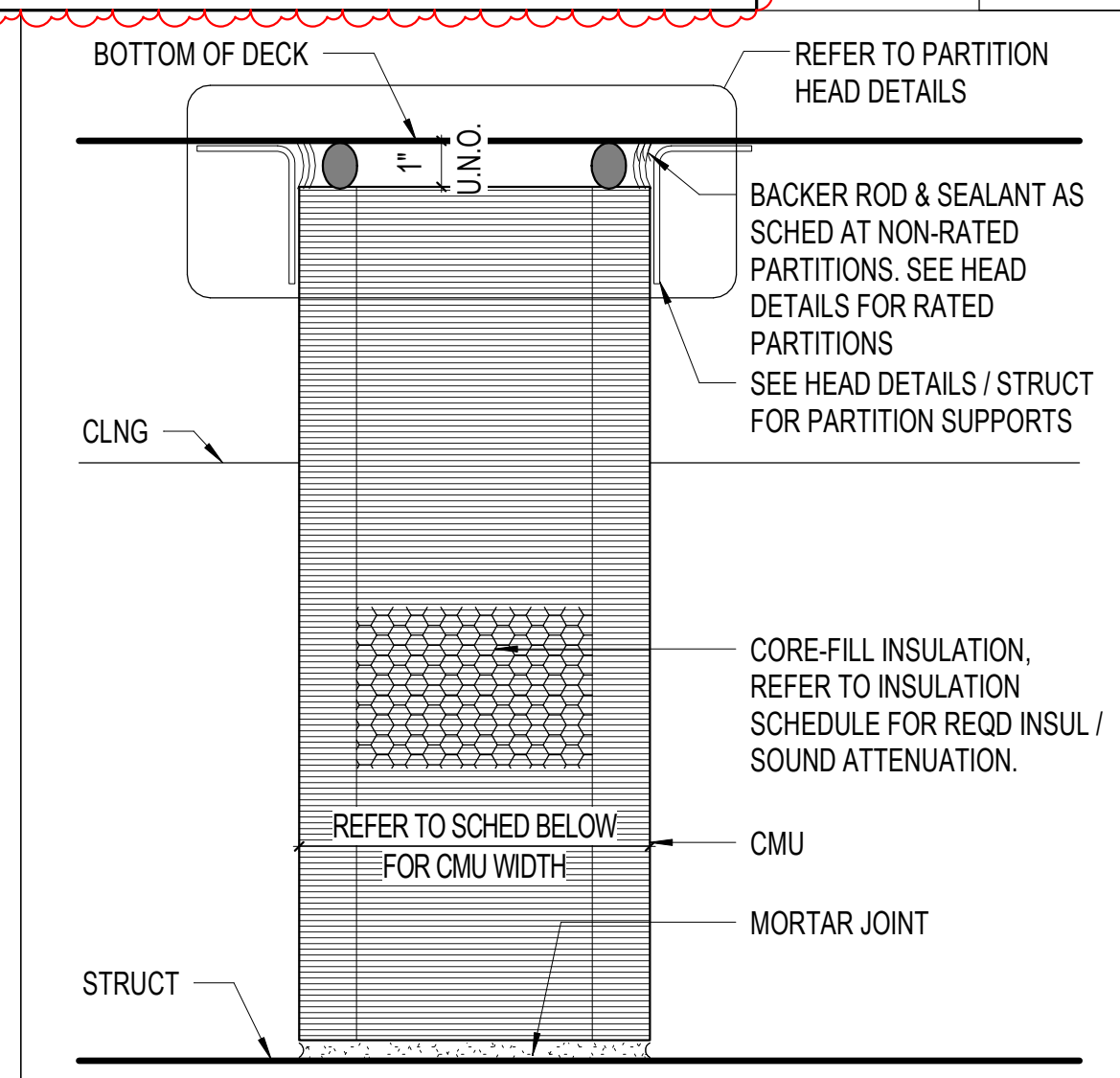
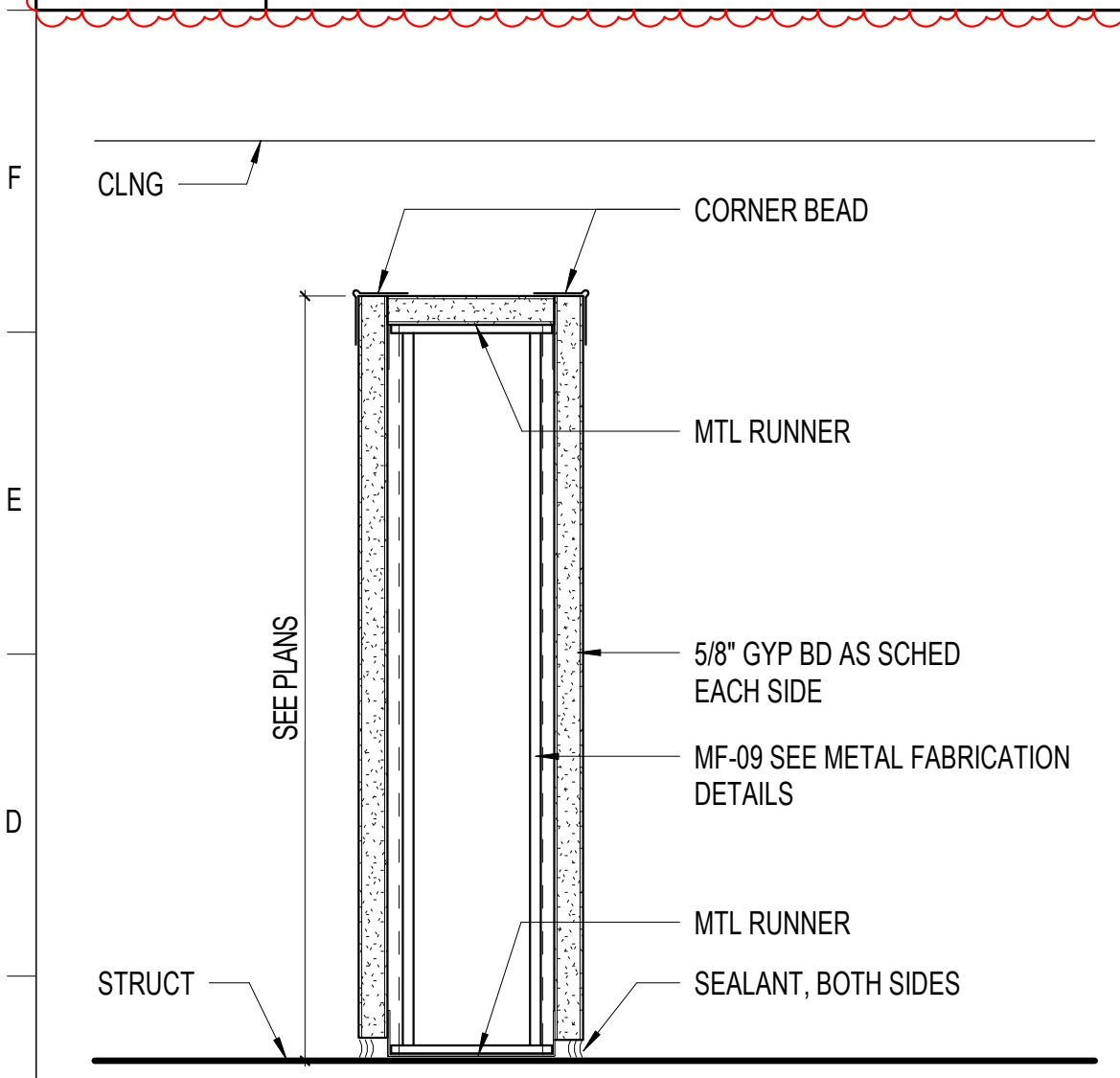
SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
0	7/8" HAT CHANNEL	1 1/2"	
1	1 5/8"	3"	
2	2 1/2"	4"	
3	3 5/8"	5"	
4	4"	6"	
6	6"	8"	

WALL RATING LEGEND

GRAPHIC PATTERN	WALL RATING
	SMOKE
	30 MIN
	1 - HOUR

GENERAL NOTES - PARTITIONS

- PARTITIONS ARE DISTINGUISHED ON FLOOR PLANS BY GRAPHIC AND TWO-PART SYMBOL DESIGNATIONS. THE ALPHANUMERIC SYMBOL INDICATES THE PARTITION TYPE AND THE NUMERIC CHARACTER DESIGNATES THE STUD, CMU OR CONCRETE WIDTH. REFER TO THE PARTITION TYPE DIAGRAMS.
- PARTITIONS REQUIRED TO BE SMOKE AND/OR FIRE RESISTANT ARE DISTINGUISHED GRAPHICALLY ON THE LIFE SAFETY PLANS. REFER TO THE FIRE & SMOKE RESISTANCE LEGEND.
- FLR, CLNG AND STRUCT DELINEATED IN THE PARTITION TYPE SECTIONS ARE DIAGRAMMATIC AND DO NOT REFLECT EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
- GYPSUM BOARD TYPES INDICATED IN THE PARTITION TYPE SECTIONS IS TYPICAL UNLESS NOTED OTHERWISE IN THE GYPSUM BOARD SCHEDULE FOR THE PARTITION LOCATION (EXAMPLE: TYPE "A3" PARTITION AT A WET WALL WILL RECEIVE 5/8" MOISTURE AND MOLD RESISTANT GYP BD IN LIEU OF 5/8" GYP BD. TYPE "A3" PARTITION SCHEDULED TO RECEIVE TILE WILL HAVE 1/2" TILE BACKER IN LIEU OF 5/8" GYP BD).
- REFER TO PARTITION HEAD DETAILS FOR CONSTRUCTION AT RATED PARTITIONS. WHERE A SPECIFIC DETAIL IS NOTE PROVIDED, COORDINATE WITH ARCHITECT.
- ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION TYPE MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLANS.
- SEALANT: REFER TO THE SEALANT SCHEDULE FOR SEALANT TYPES AT ALL PARTITIONS. ALL PARTITIONS SHALL HAVE SCHEDULED SEALANT AT THE HEAD, SILL, THRU-PENETRATIONS, OPENINGS AND JUNCTURES WITH DISSIMILAR MATERIALS.
- INSULATION: REFER TO INSULATION SCHEDULE FOR INSULATION TYPE AT ALL PARTITIONS.
- FOR PARTITIONS DESIGNATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO FULL HEIGHT OF PARTITION U.N.O. FLOOR TRACK TO BE SET IN A CONT BED OF SCHEDULED SEALANT.
- IF NO SYMBOL DESIGNATION IS PROVIDED, STUD WALLS SHALL BE TYPE A3 AND MASONRY WALLS SHALL BE TYPE F8.
- REFER TO SPECIFICATIONS MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS AND DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.
- FIRE RESISTANT AND SMOKE RESISTANT SMOKE BARRIER RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.
- SMOKE RESISTANT, FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO THE INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.
- EACH NEW FIRE WALL, FIRE PARTITION, SMOKE BARRIER, SMOKE PARTITION, OR ANY OTHER NEW WALL REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES WITH THE WORKING, "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS." SUCH SIGNS OR STENCILING SHALL BE IN 1/4 INCH HIGH LETTERS, 1/2 INCH STROKE, AND NOT MORE THAN 15 FEET ON CENTER OR AS REQUIRED BY LOCAL CODE.
- REFER TO STRUCTURAL DRAWINGS FOR REINFORCING INFORMATION.
- REFER TO CASEWORK AND TOILET ACCESSORY SHEETS FOR MOUNTING INFORMATION AND BACKING REQUIREMENTS.
- DO NOT UTILIZE BULLNOSE BLOCK AT CMU WALLS DESIGNATED TO RECEIVE CORNER GUARDS.
- ALL PENETRATIONS THRU FIRE OR SMOKE RATED PARTITION SHALL BE SEALED TO MAINTAIN THE INTEGRITY OF THE PARTITION RATING. REFER TO SEALANT SCHEDULE.
- ALL PENETRATIONS THRU SOUND RATED PARTITION SHALL BE SEALED TO MAINTAIN THE INTEGRITY OF THE PARTITION RATING. REFER TO SEALANT SCHEDULE.



DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
3	3 5/8"	4 7/8"	
4	4"	5 1/4"	
6	6"	7 1/4"	
8	8"	9 1/4"	

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W SOUND
NON-RATED	N/A		45	53
SMOKE RES.	N/A		45	53
1 HR. MIN.	U805		45	53

CONSTRUCTION

SUFFIX	CMU WIDTH	OVERALL WIDTH	REMARKS
4	3 5/8"	3 5/8" *	* SOLID UNITS ONLY AT RATED WALL
6	5 5/8"	5 5/8" **	** SEE EQUIV. THICKNESS TABLE AT RATED WALL
8	7 5/8"	7 5/8"	
10	9 5/8"	9 5/8"	
12	11 5/8"	11 5/8"	

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		N/A	N/A

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
0	7/8" HAT CHANNEL	1 1/2"	
1	1 5/8"	3"	
2	2 1/2"	4"	
3	3 5/8"	5"	
4	4"	6"	
6	6"	8"	

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
1 HR.	U415 - SYSTEM A		40	49

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
2	2 1/2"	4 1/8"	AT WALLS TO RECEIVE TILE USE U415 - SYSTEM D, ADD THICKNESS OF CEMENT BD
4	4"	5 5/8"	
6	6"	7 5/8"	

DESIGN CRITERIA REFER TO LIFE SAFETY PLANS FOR PARTITION RATINGS

RATING	UL DESIGN #	GRAPHIC	STC	STC W/ 3" SAB
NON-RATED	N/A		40	49
SMOKE RES.	N/A		40	49
30 MIN	U423		40	49

CONSTRUCTION

SUFFIX	STUD SIZE	OVERALL WIDTH	REMARKS
1	1 5/8"	2 7/8"	*REFER TO UL FOR MIN. GYP BD THICKNESS AND REQD INSULATION.
2	2 1/2"	3 3/4"	
3	3 5/8"	4 7/8"	
4	4"	5 1/4"	
6	6"	7 1/4"	
8	8"	9 1/4"	

PARTITION TYPE H

PARTITION TYPE F

PARTITION TYPE E

PARTITION TYPE C

PARTITION TYPE A



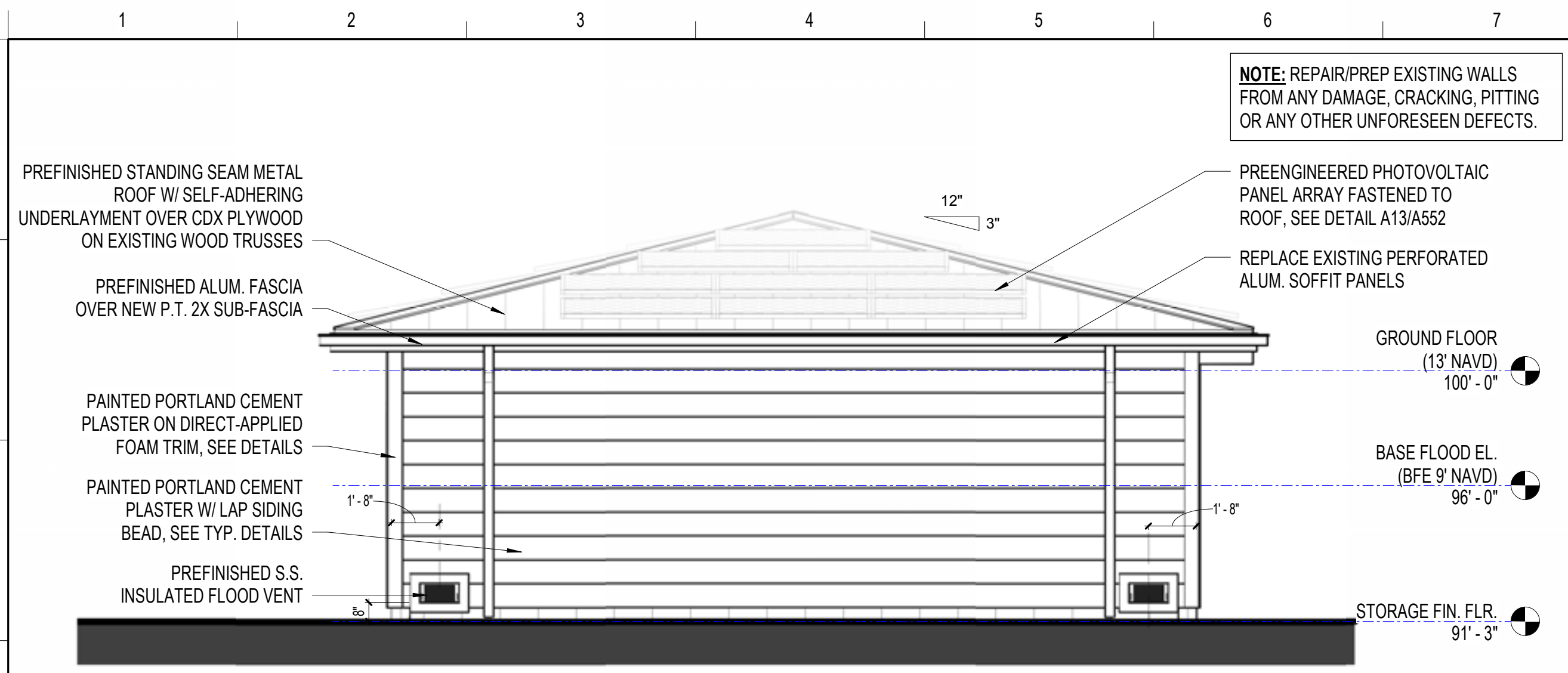
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SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:
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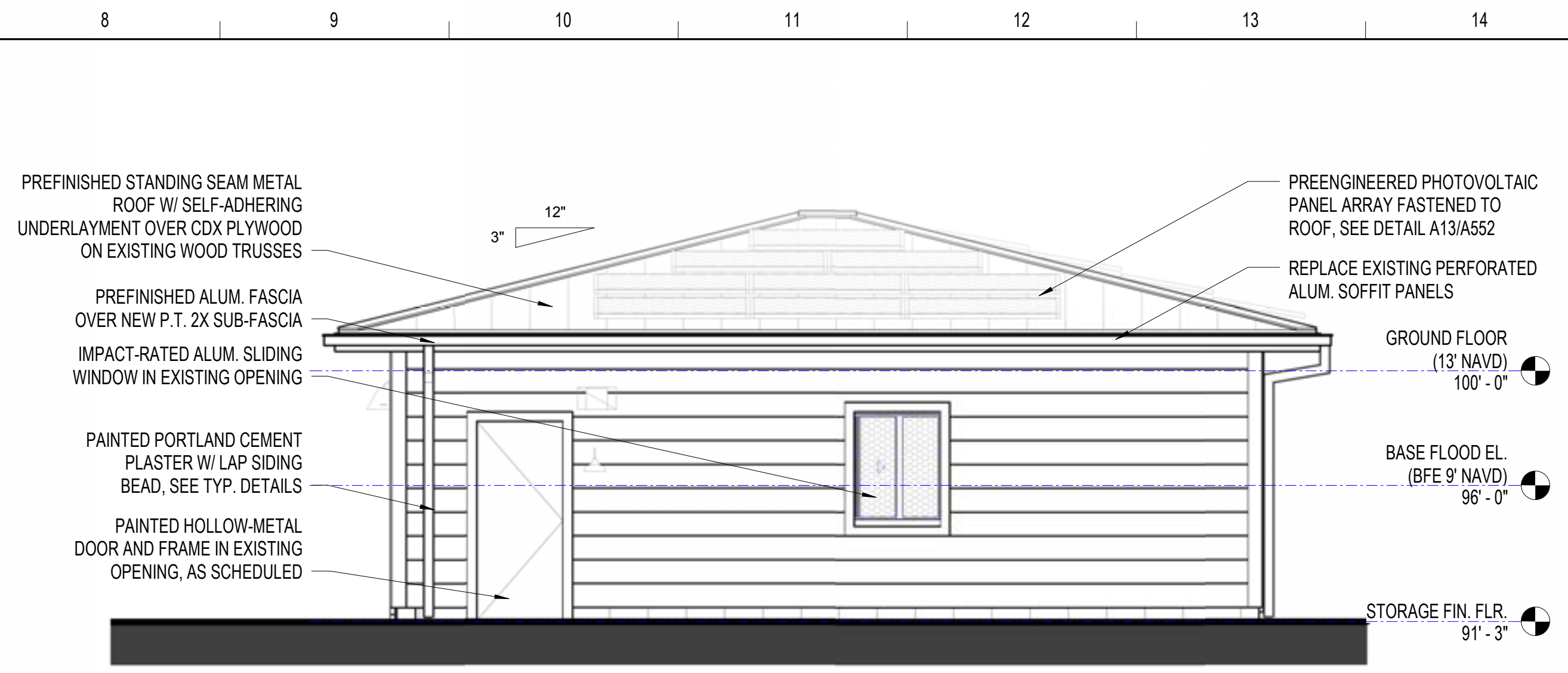


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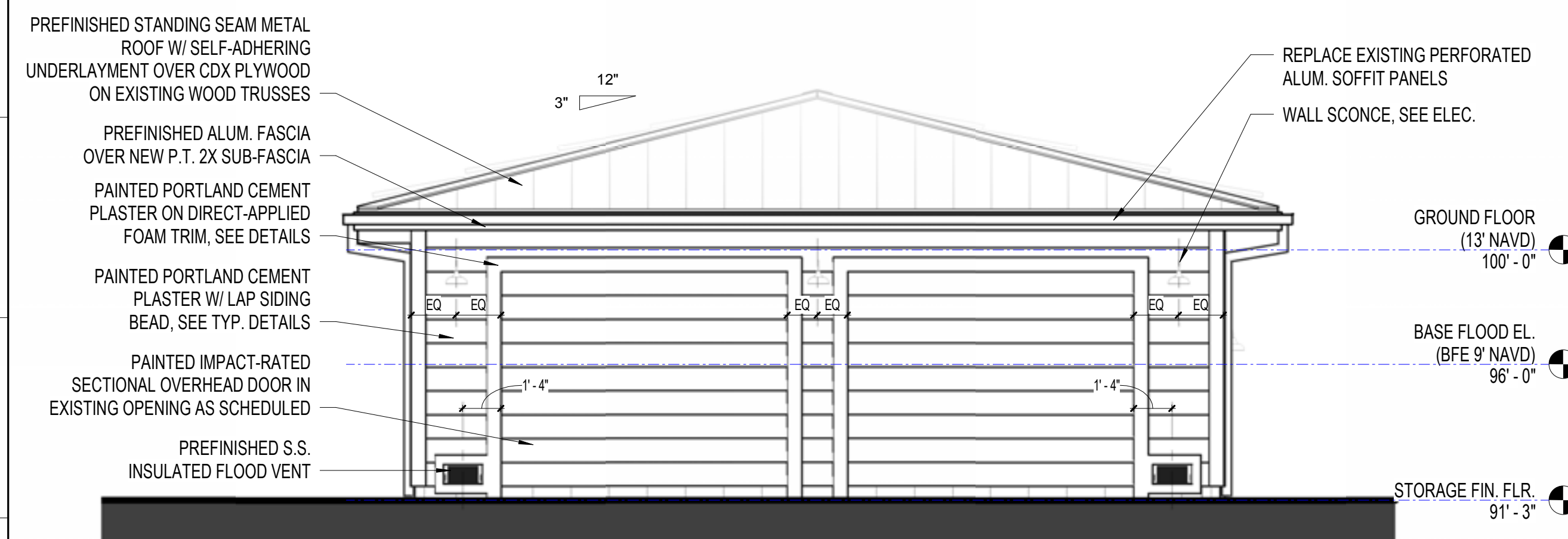
N1 STORAGE BUILDING - REAR ELEVATION

1/4" = 1'-0"



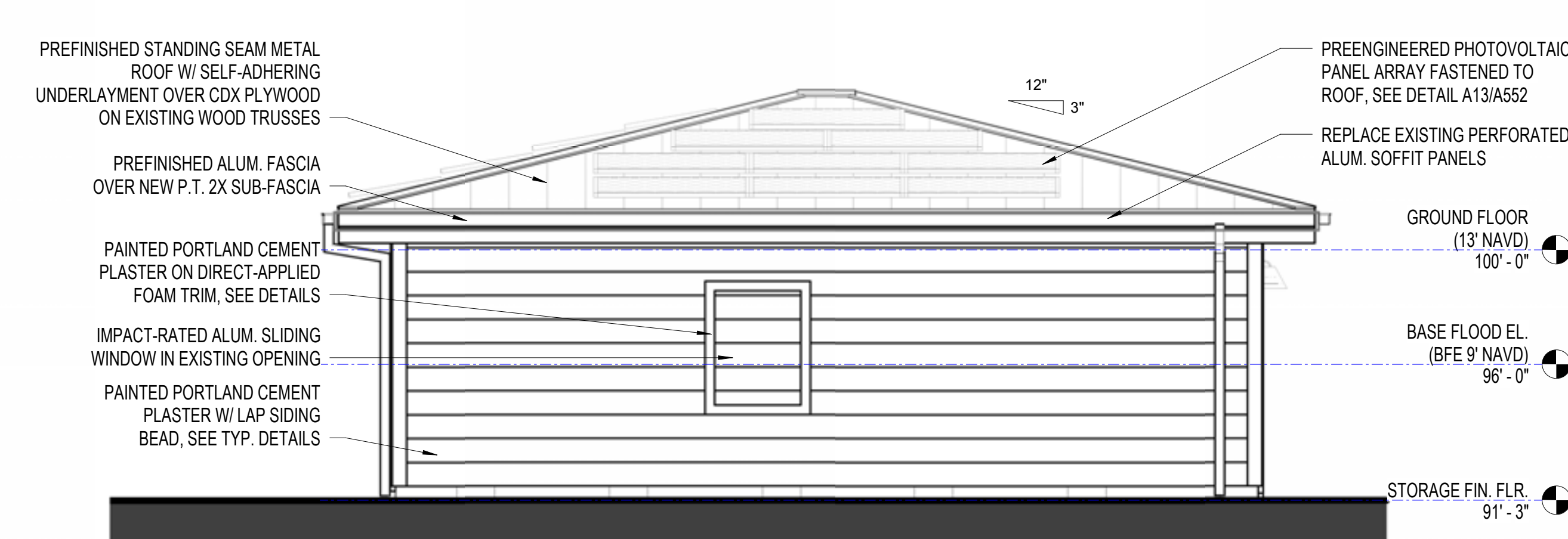
N8 STORAGE BUILDING - SIDE ELEVATION

1/4" = 1'-0"



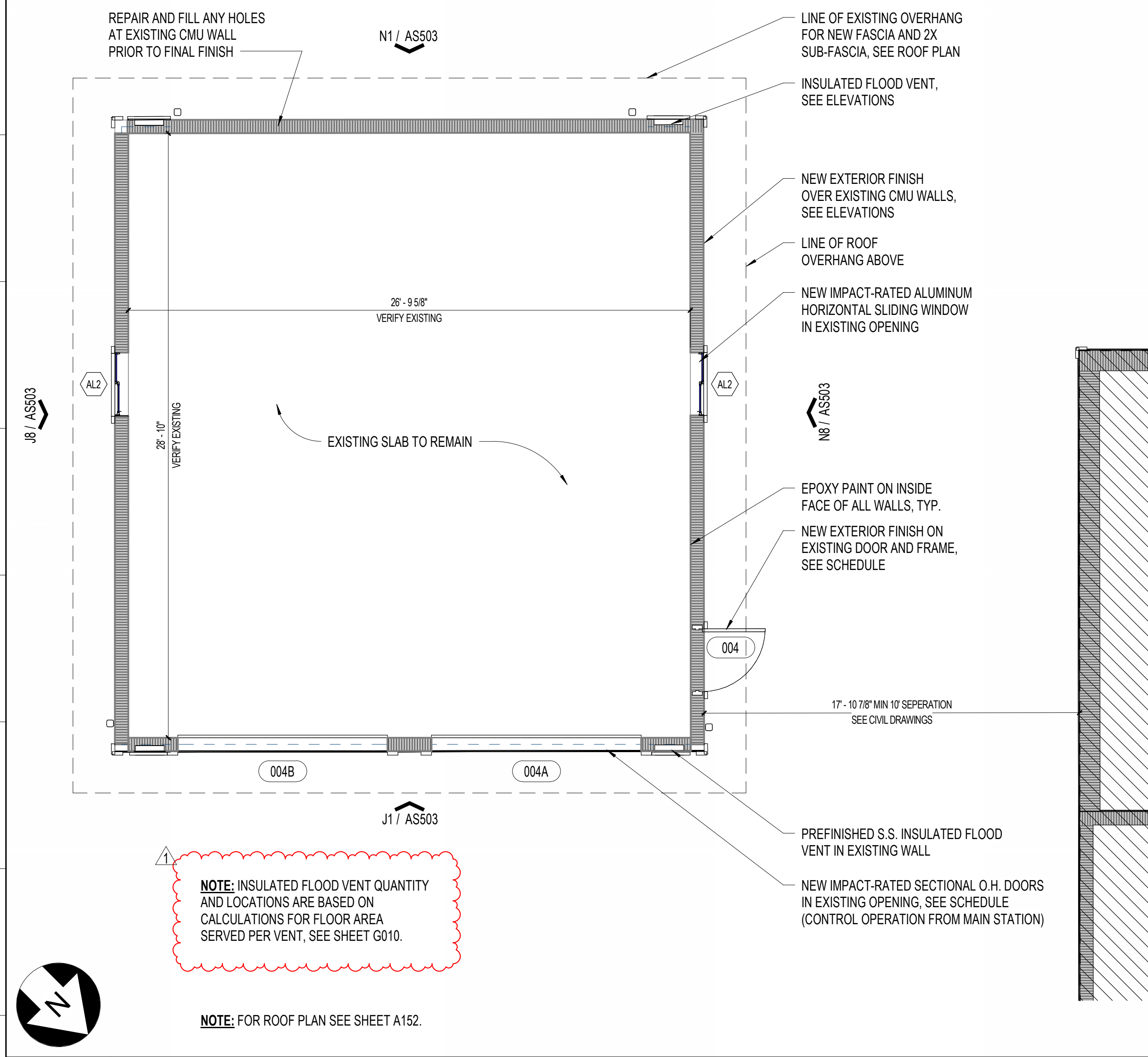
J1 STORAGE BUILDING - FRONT ELEVATION

1/4" = 1'-0"



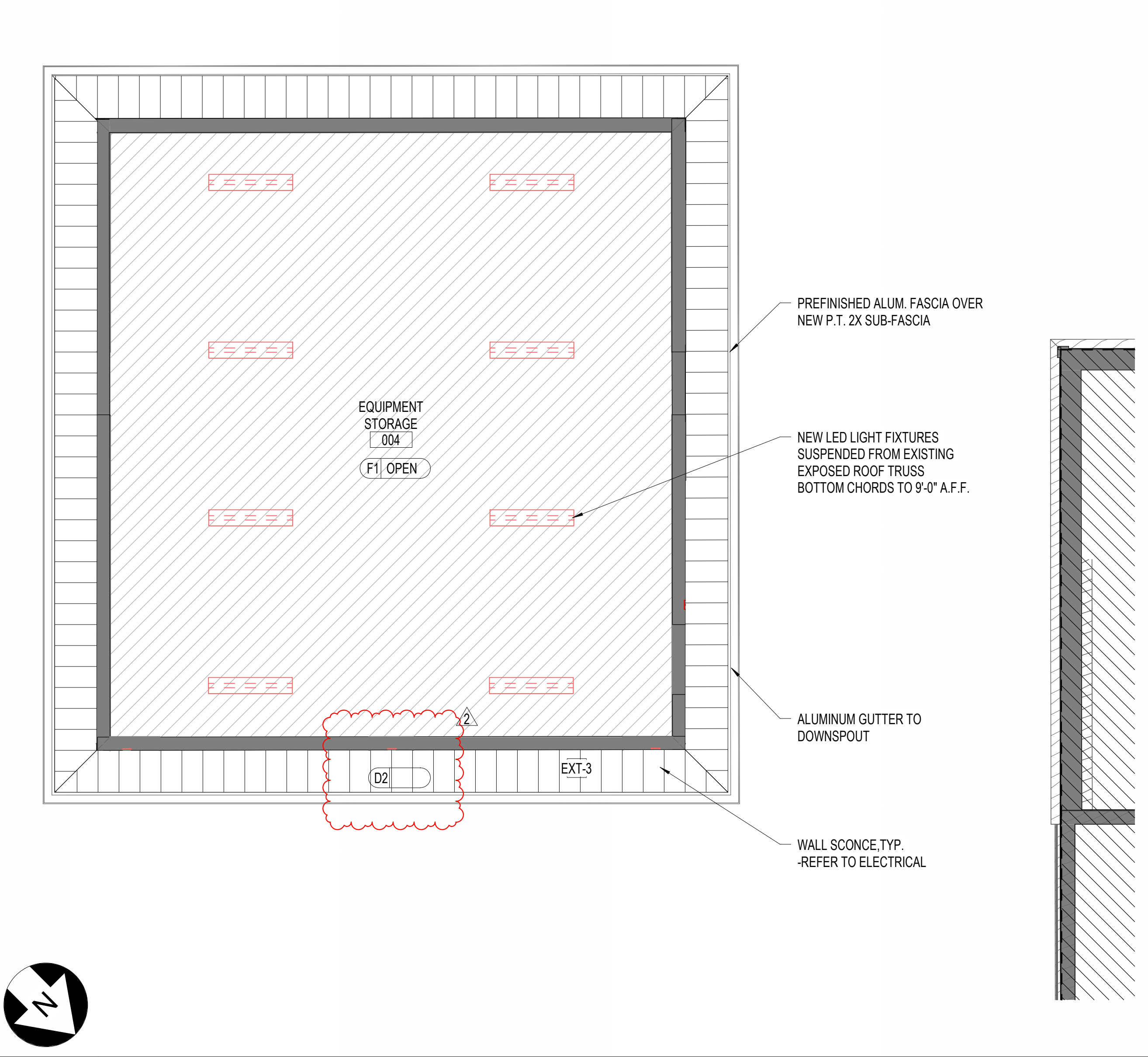
J8 STORAGE BUILDING - SIDE ELEVATION

1/4" = 1'-0"



A1 FLOOR PLAN - STORAGE BUILDING

1/4" = 1'-0"



A8 REFLECTED CEILING PLAN - STORAGE BUILDING

1/4" = 1'-0"

REVISIONS		
MARK	DESCRIPTION	DATE
1	PERSET COMMENTS	05/14/24
2	ADDED/CHANGED	05/16/24

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: Author

SITE DETAILS - EXISTING STORAGE BUILDING

AS503

100% CONSTRUCTION DOCUMENTS

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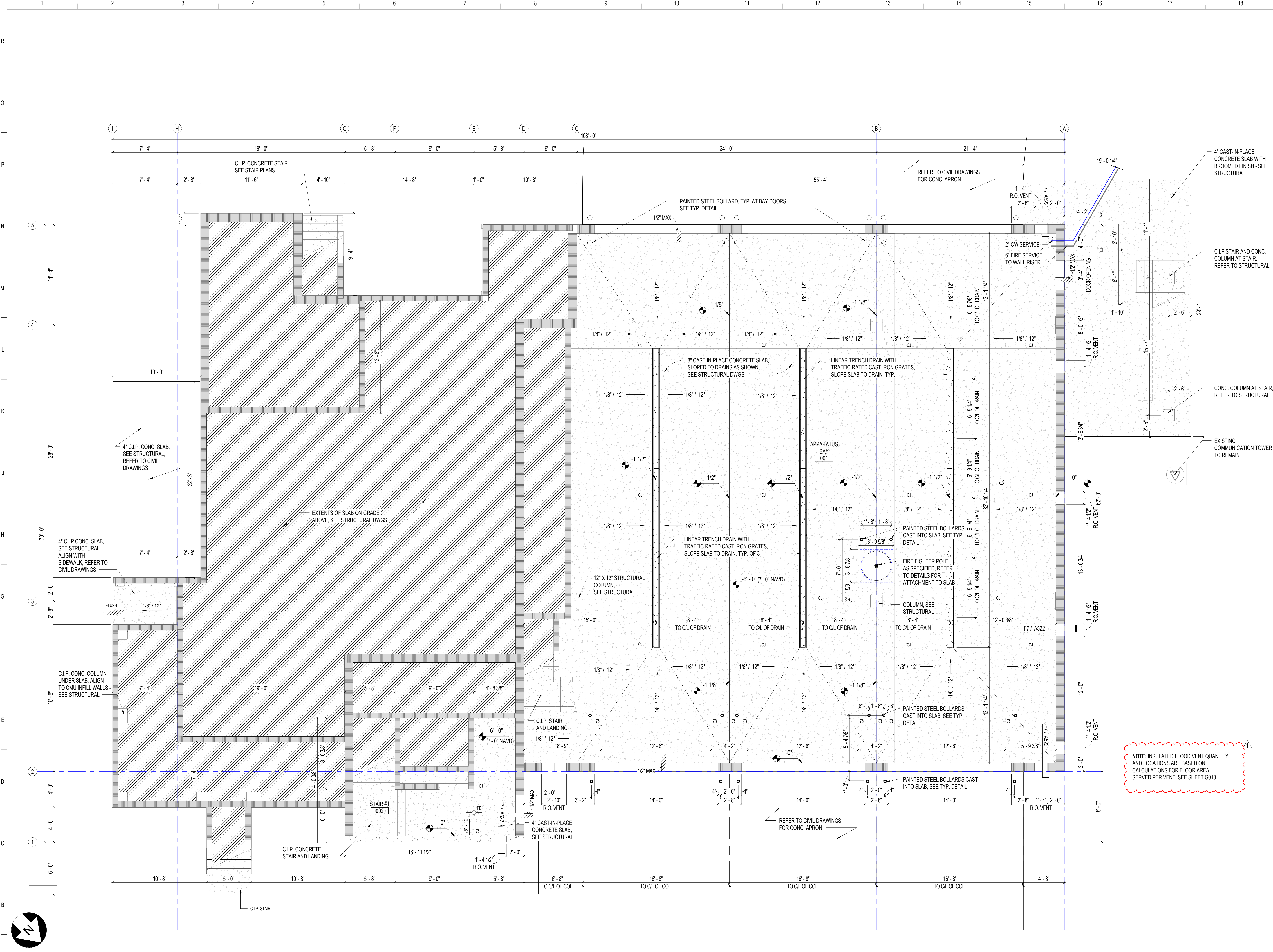
**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
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REVISIONS		
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A1 SLAB PLAN - APPARATUS BAY

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: NW

**SLAB PLAN - APPARATUS
BAY**

A030

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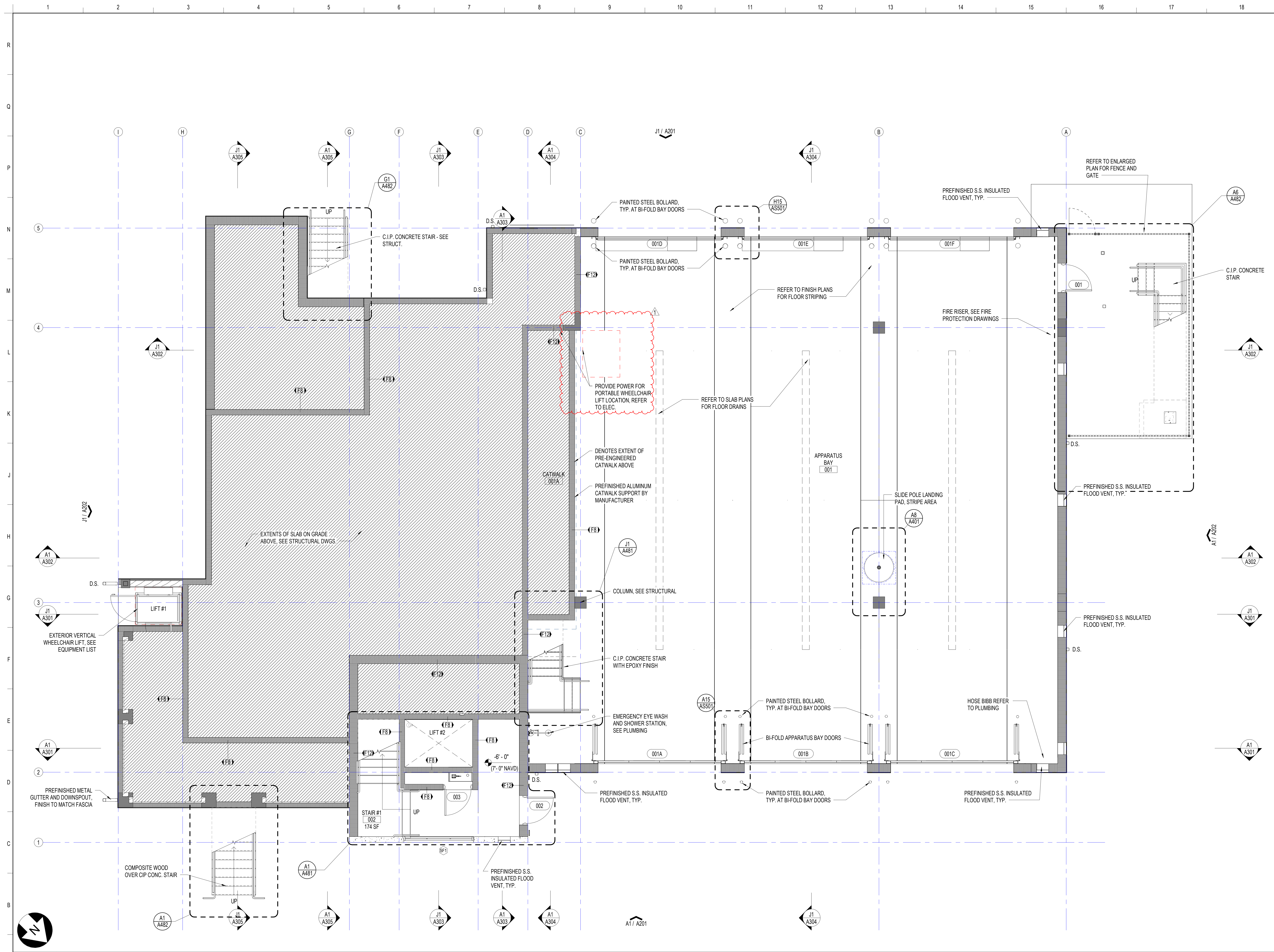
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A1 FLOOR PLAN - APPARATUS BAY

1/4" = 1'-0"

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: Author

**ARCHITECTURAL PLAN -
APPARATUS BAY**

A100

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SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

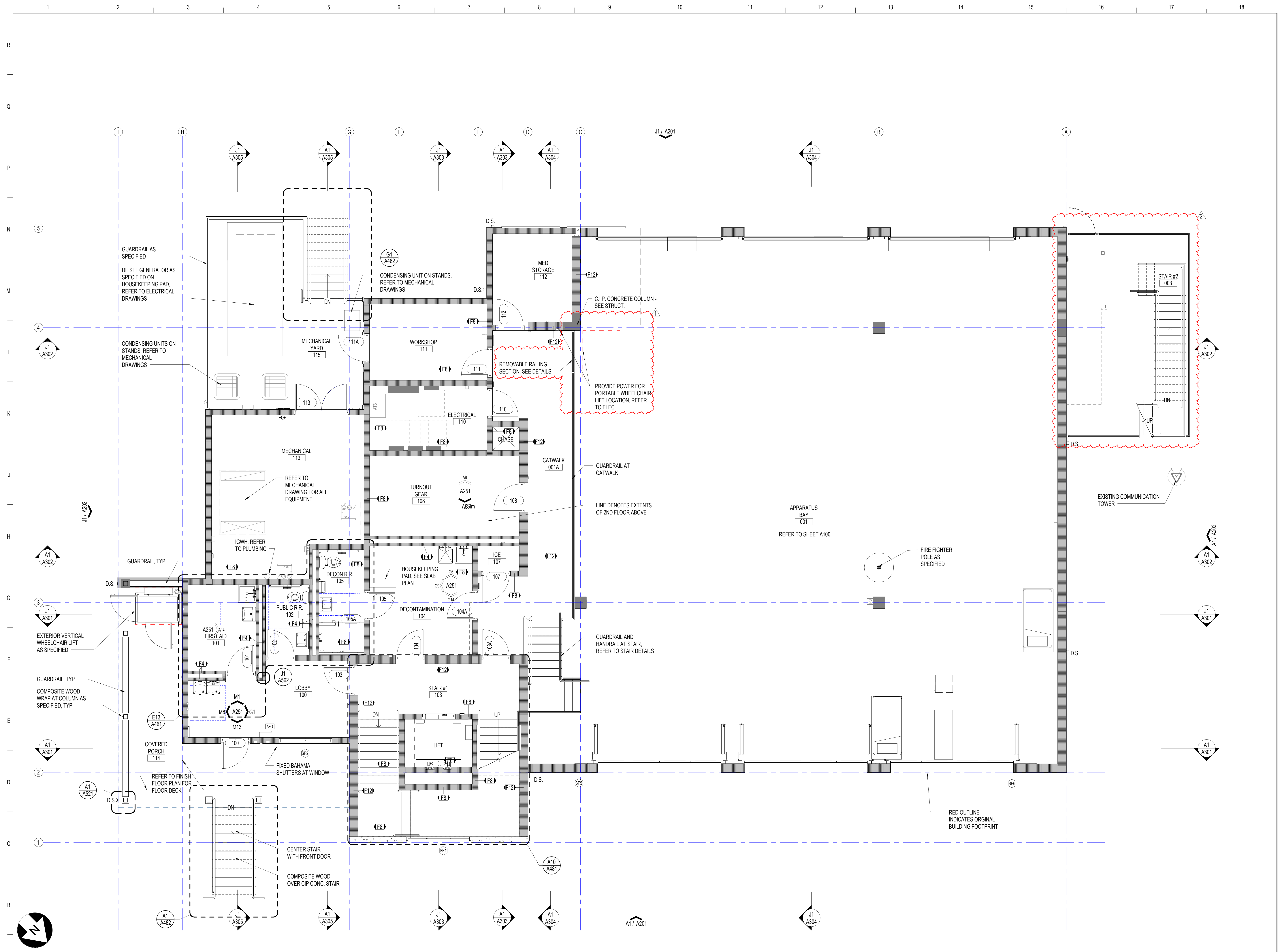
**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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1	PERSET COMMENTS	05/14/24
2	ADDITIONAL	05/16/24



A1 FLOOR PLAN - FIRST FLOOR

1/4" = 1'-0"

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**ARCHITECTURAL PLAN -
FIRST FLOOR**

A101

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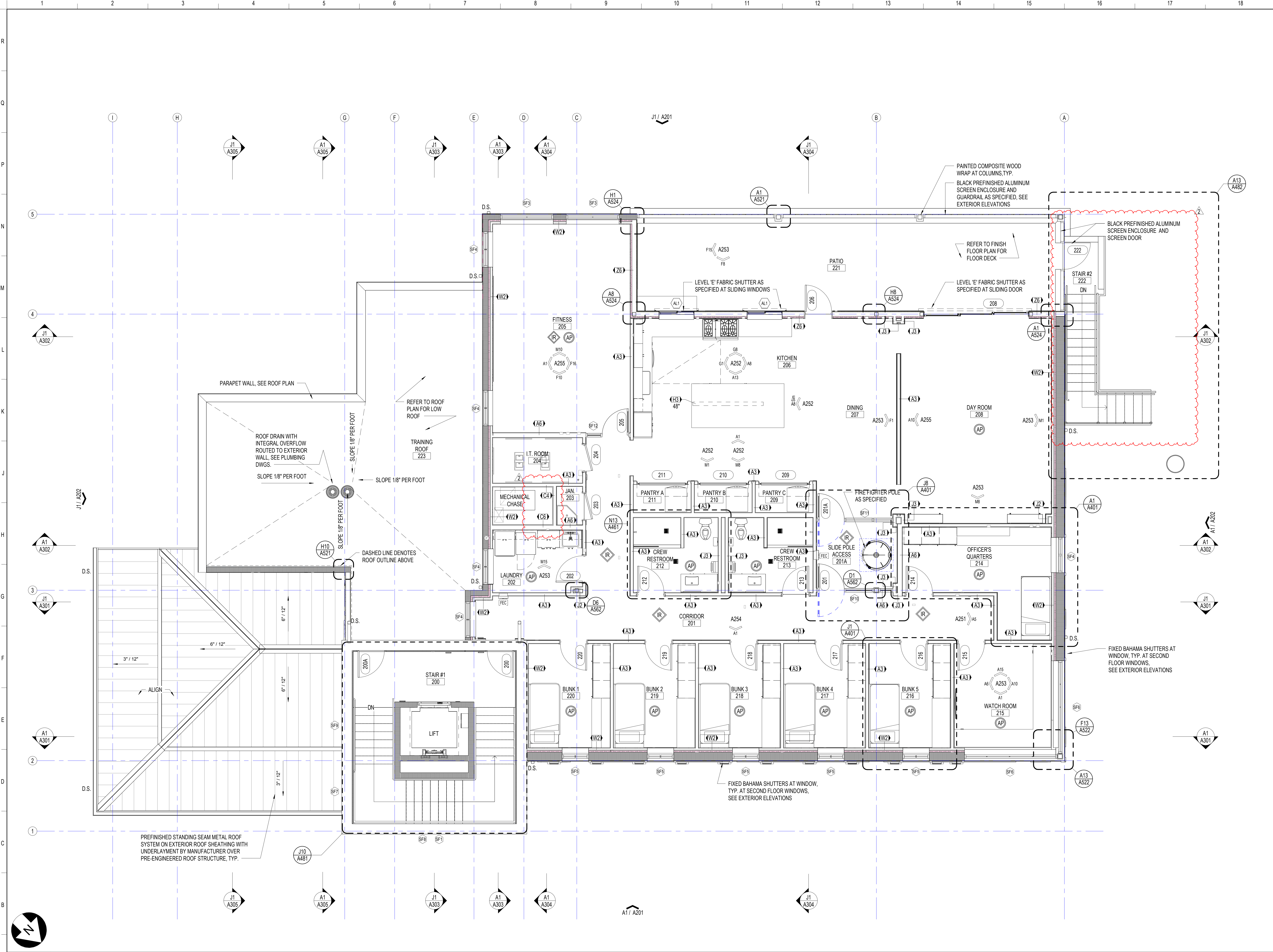
**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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A1 FLOOR PLAN - SECOND FLOOR
1/4" = 1'-0"

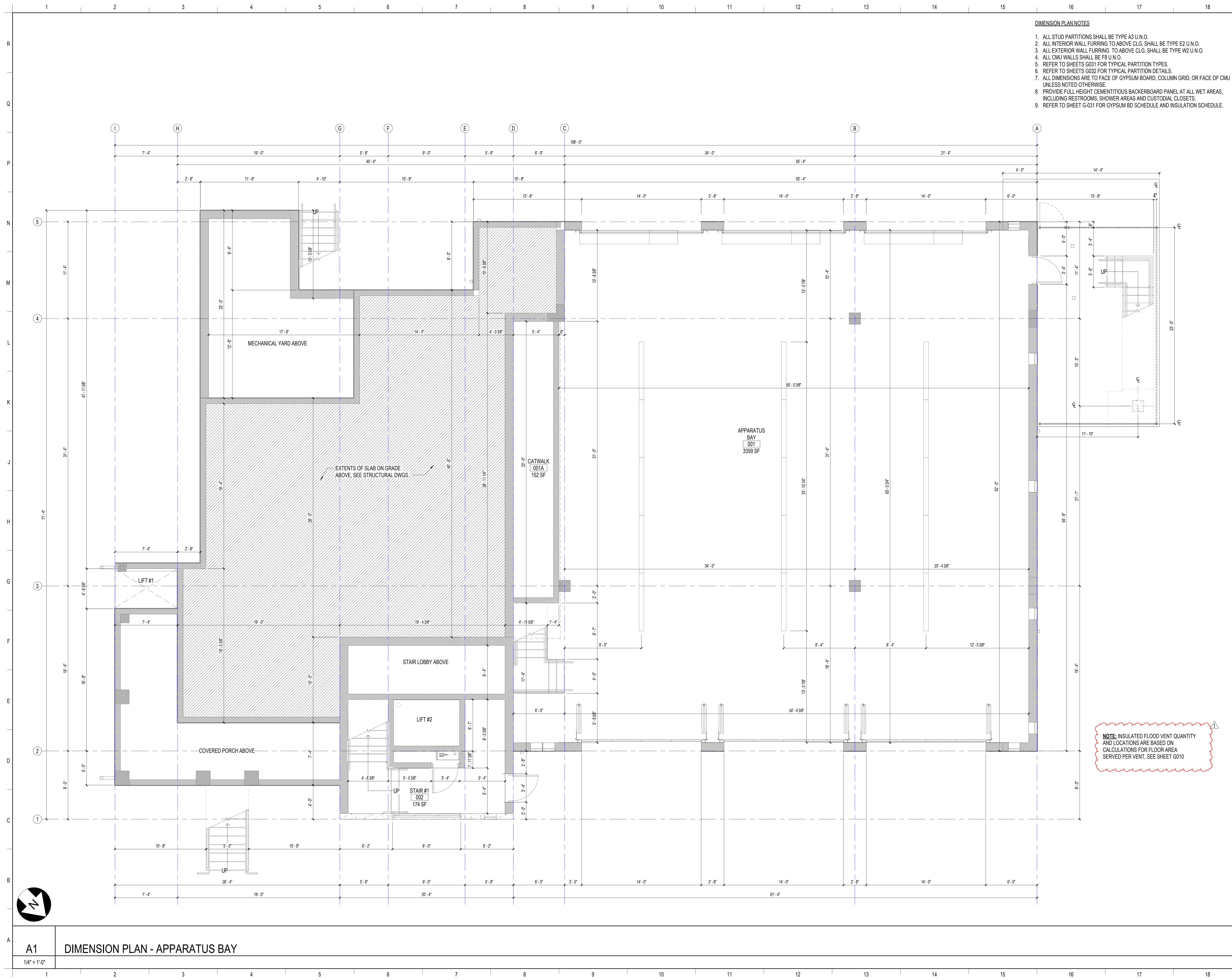
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**ARCHITECTURAL PLAN -
SECOND FLOOR**

A102

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- DIMENSION PLAN NOTES**
1. ALL STUD PARTITIONS SHALL BE TYPE A3 U.N.O.
 2. ALL INTERIOR WALL FURRING TO ABOVE CLG. SHALL BE TYPE E2 U.N.O.
 3. ALL EXTERIOR WALL FURRING TO ABOVE CLG. SHALL BE TYPE W2 U.N.O.
 4. ALL CMU WALLS SHALL BE F8 U.N.O.
 5. REFER TO SHEETS G031 FOR TYPICAL PARTITION TYPES.
 6. REFER TO SHEETS G032 FOR TYPICAL PARTITION DETAILS.
 7. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN GRID, OR FACE OF CMU UNLESS NOTED OTHERWISE.
 8. PROVIDE FULL HEIGHT CEMENTITIOUS BACKERBOARD PANEL AT ALL WET AREAS, INCLUDING RESTROOMS, SHOWER AREAS AND CUSTODIAL CLOSETS.
 9. REFER TO SHEET G-031 FOR GYPSUM BD SCHEDULE AND INSULATION SCHEDULE.



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
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NOTE: INSULATED FLOOD VENT QUANTITY AND LOCATIONS ARE BASED ON CALCULATIONS FOR FLOOR AREA SERVED PER VENT, SEE SHEET G010

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**DIMENSION PLAN -
APPARATUS BAY**

A1 DIMENSION PLAN - APPARATUS BAY
1/4" = 1'-0"

A120
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	A1 VARIES	24" x 24" ROCKFON SONAR SQ. TEGULAR NARROW, 0.95 NRC
	C1 VARIES	5/8" GYPSUM BD ON 3-5/8" METAL STUD FRAMING
	D2 VARIES	PRE-FINISHED ALUMINUM SOFFIT OVER EXISTING WOOD ROOF TRUSSES
	F1 VARIES	EXPOSED STRUCTURE, PAINT ALL SIDES
	M1 VARIES	PAINTED COMPOSITE WOOD BEADBOARD SOFFIT PANEL OVER 3/4" CDX PLYWOOD SUBSTRATE - EXTERIOR

	S2 VARIES	PAINTED WOOD PLANK ON 7/8" HAT CHANNEL GRID
	S1 VARIES	FAUX WOOD BEAM SYSTEM
	C2 VARIES	MOZ CORRUGATED PANEL

CEILING GENERAL NOTES

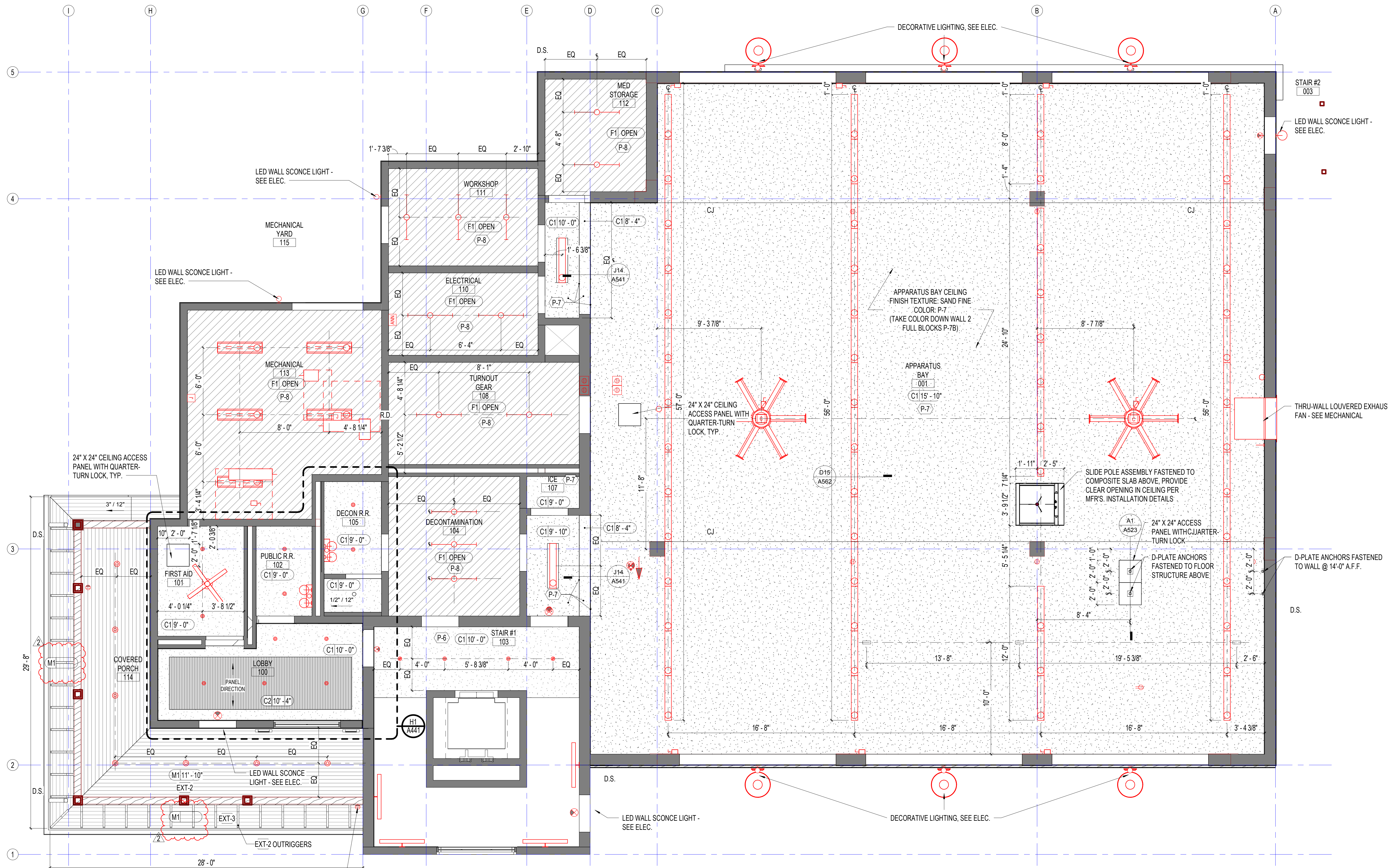
1. ALL DIMENSIONS ARE TO THE CENTERLINE OF DEVICE. TYPICAL.
2. ALL SOFFIT/CASED OPENINGS ARE TO ALIGN WITH THE FINISHED FACE OF ADJACENT WALLS, U.N.O.
3. ALL DEVICES ARE TO BE CENTERED IN CEILING TILES WHERE APPLICABLE, UNLESS NOTED OTHERWISE.
4. SEE CONSULTANT DOCUMENTS FOR THE LOCATIONS OF ALL WALL-MOUNTED DEVICES. COORDINATE ALIGNMENT OF WALL DEVICES WITH EACH OTHER AND CEILING DEVICES WHERE POSSIBLE.
5. ALIGN DEVICES AS INDICATED WITH CENTERLINES.
6. ALL CEILING HEIGHTS ARE TO THE FINISHED FACE OF THE CEILING PLANE.
7. ARCHITECTURAL CEILING PLANS DO NOT INDICATE ALL DEVICES IN THE CEILING/PROJECT. REFER TO MEP DRAWINGS FOR ADDITIONAL DEVICES.
8. ALL STRUCTURE (INCLUDING BOTTOM OF DECK), CONDUIT, HVAC DUCTWORK, EQUIPMENT SUPPORTS, CABLE TRAY, DEVICES, CEILING SUPPORT SYSTEMS, ETC ABOVE OPEN CLG AREAS TO BE PAINTED.
9. FANS TO BE CENTERED IN ROOM U.N.O.
10. REFER TO FINISH SCHEDULE FOR CEILING FINISHES U.N.O. ON RCP, INTERIOR ON A160, EXTERIOR A200

CEILING LEGEND AND NOTES

FIXTURE LEGEND

INDICATION	DESCRIPTION
	RECESSED PIN LIGHT
	RECESSED DOWNLIGHT
	ANGLED RECESSED DOWNLIGHT
	EXIT SIGN
	FIRE SPRINKLER
	DATA DEVICE
	UNDER CABINET LIGHTING
	RECESSED LINEAR LIGHT
	SUSPENDED LINEAR LIGHT FIXTURE
	SUSPENDED PENDANT LIGHT FIXTURE
	VANITY WALL SCONCE
	CEILING ACCESS PANEL/ AFFLE PLENUM ACCESS
	WALL MOUNTED LINEAR FIXTURE
	WALL SCONCE
	2X2 LIGHT
	AIR SUPPLY DIFFUSER
	AIR RETURN DIFFUSER
	EXHAUST FAN
	LINEAR AIR SUPPLY DIFFUSER
	CAMERA
	SPEAKER
	FIRE ALARM DEVICE
	SMOKE DETECTOR
	FAN
	FAN

NOTE: SEE MEP DRAWINGS FOR MORE SYMBOLS



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:
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SANIBEL, FLORIDA 33957



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2	ADDENDUM #2	03/18/24

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REFLECTED CEILING PLAN - APPARATUS LEVEL & FIRST FLOOR

A141

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SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
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1	PERSET COMMENTS	05/14/24
2	ADJUSTMENTS	05/15/24

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**REFLECTED CEILING PLAN -
SECOND FLOOR**

A142
100% CONSTRUCTION DOCUMENTS

CEILING GENERAL NOTES

1. ALL DIMENSIONS ARE TO THE CENTERLINE OF DEVICE, TYPICAL.
2. ALL SOFFITS/CASED OPENINGS ARE TO ALIGN WITH THE FINISHED FACE OF ADJACENT WALLS, U.N.O.
3. ALL DEVICES ARE TO BE CENTERED IN CEILING TILES WHERE APPLICABLE, UNLESS NOTED OTHERWISE.
4. SEE CONSULTANT DOCUMENTS FOR THE LOCATIONS OF ALL WALL-MOUNTED DEVICES. COORDINATE ALIGNMENT OF WALL DEVICES WITH EACH OTHER AND CEILING DEVICES WHERE POSSIBLE.
5. ALIGN DEVICES AS INDICATED WITH CENTERLINES.
6. ALL CEILING HEIGHTS ARE TO THE FINISHED FACE OF THE CEILING PLANE.
7. ARCHITECTURAL CEILING PLANS DO NOT INDICATE ALL DEVICES IN THE CEILING/PROJECT. REFER TO MEPP DOCUMENTS FOR ADDITIONAL DEVICES.
8. ALL STRUCTURE (INCLUDING BOTTOM OF DECK, CONDUIT, HVAC DUCTWORK, EQUIPMENT SUPPORTS, CABLE TRAY, DEVICES, CEILING SUPPORT SYSTEMS, ETC ABOVE OPEN CLG AREAS TO BE PAINTED.
9. FANS TO BE CENTERED IN ROOM U.N.O.
10. REFER TO FINISH SCHEDULE FOR CEILING FINISHES U.N.O. ON RCP. INTERIOR ON A160, EXTERIOR A200

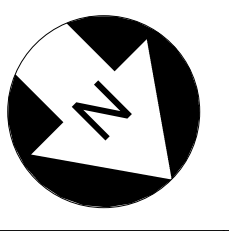
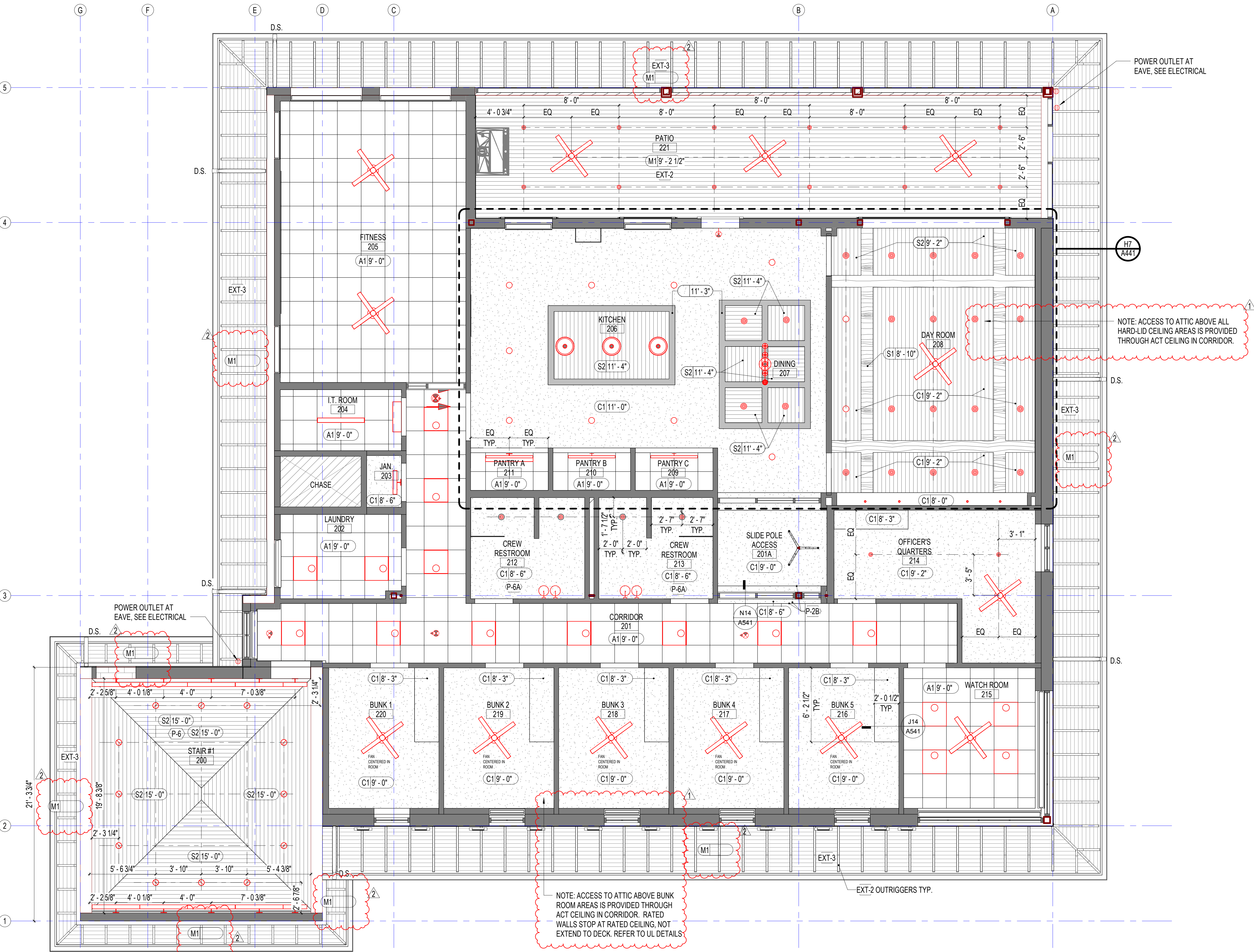
- (A1) VARIES 24" x 24" ROCKFON SONAR SQ. TEGULAR NARROW, 0.95 NRC
- (C1) VARIES 5/8" GYPSUM BD ON 3-5/8" METAL STUD FRAMING
- (D2) VARIES PRE-FINISHED ALUMINUM SOFFIT OVER EXISTING WOOD ROOF TRUSSES
- (F1) VARIES EXPOSED STRUCTURE, PAINT ALL SIDES
- (M1) VARIES PAINTED COMPOSITE WOOD BEADBOARD SOFFIT PANEL OVER 3/4" CDX PLYWOOD SUBSTRATE - EXTERIOR
- (S2) VARIES PAINTED WOOD PLANK ON 7/8" HAT CHANNEL GRID
- (S1) VARIES FAUX WOOD BEAM SYSTEM
- (C2) VARIES M02 CORRUGATED PANEL

CEILING LEGEND AND NOTES

FIXTURE LEGEND

- INDICATION
- DESCRIPTION
- RECESSED PIN LIGHT
- RECESSED DOWNLIGHT
- ANGLED RECESSED DOWNLIGHT
- EXIT SIGN
- FIRE SPRINKLER
- DATA DEVICE
- UNDER CABINET LIGHTING
- RECESSED LINEAR LIGHT
- SUSPENDED LINEAR LIGHT FIXTURE
- SUSPENDED PENDANT LIGHT FIXTURE
- VANITY WALL SCONCE
- CEILING ACCESS PANEL/ BAFFLE PLENUM ACCESS
- WALL MOUNTED LINEAR FIXTURE
- WALL SCONCE
- 2X2 LIGHT
- AIR SUPPLY DIFFUSER
- AIR RETURN DIFFUSER
- EXHAUST FAN
- LINEAR AIR SUPPLY DIFFUSER
- CAMERA
- SPEAKER
- FIRE ALARM DEVICE
- SMOKE DETECTOR
- FAN
- FAN

NOTE: SEE MEP DRAWINGS FOR MORE SYMBOLS



A1 REFLECTED CEILING PLAN - SECOND FLOOR

1/4" = 1'-0"



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

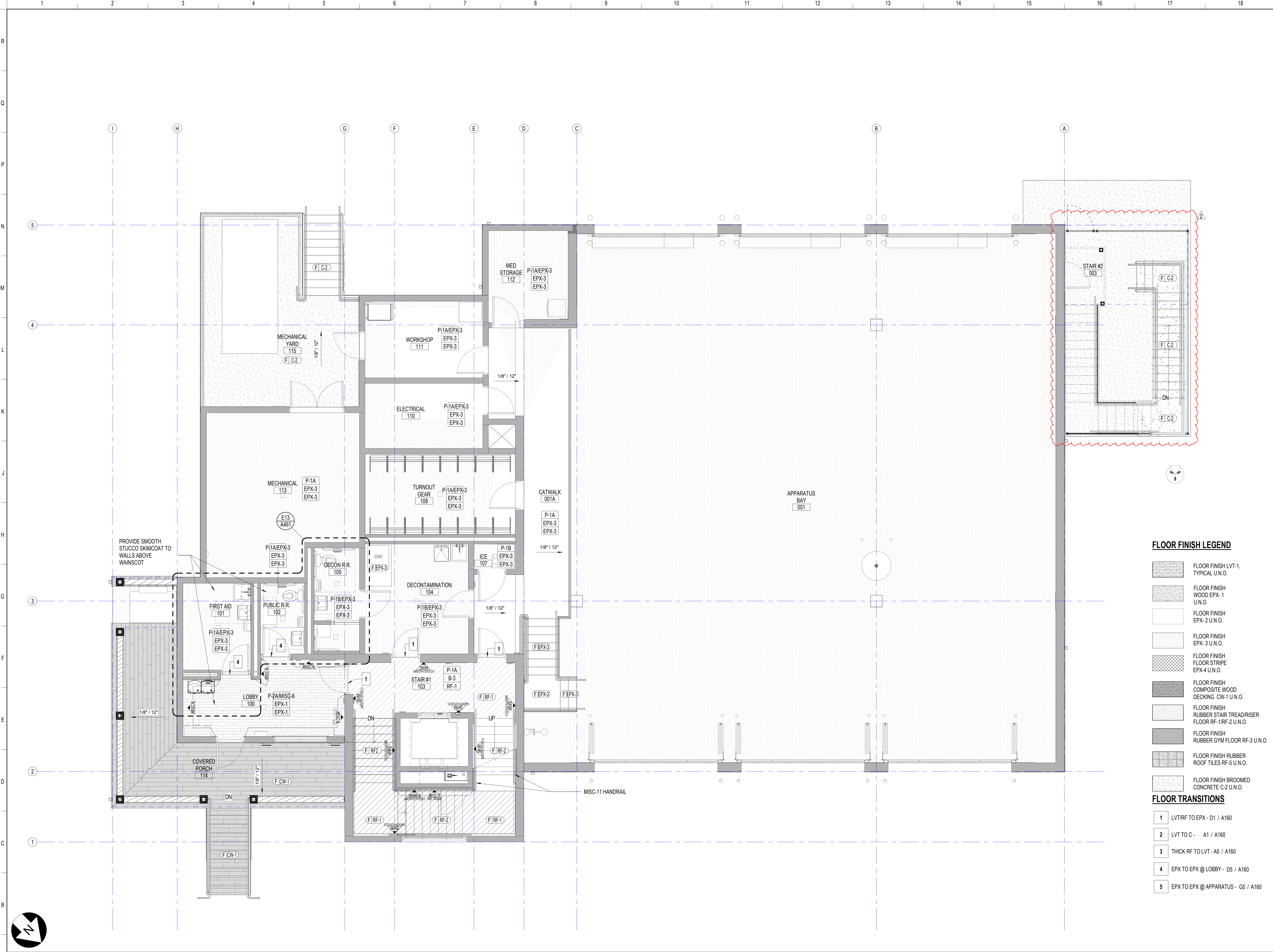
**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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FLOOR FINISH LEGEND

- FLOOR FINISH LVT-1, TYPICAL U.N.O.
- FLOOR FINISH WOOD EPX-1 U.N.O.
- FLOOR FINISH EPX-2 U.N.O.
- FLOOR FINISH EPX-3 U.N.O.
- FLOOR FINISH FLOOR STRIPE EPX-4 U.N.O.
- FLOOR FINISH COMPOSITE WOOD DECKING CW-1 U.N.O.
- FLOOR FINISH RUBBER STAIR TREAD/RISER FLOOR RF-1/RF-2 U.N.O.
- FLOOR FINISH RUBBER GYM FLOOR RF-3 U.N.O.
- FLOOR FINISH RUBBER ROOF TILES RF-5 U.N.O.
- FLOOR FINISH BROOMED CONCRETE C-2 U.N.O.

FLOOR TRANSITIONS

- 1 LVT/RF TO EPX - D1 / A160
- 2 LVT TO C - A1 / A160
- 3 THICK RF TO LVT - A5 / A160
- 4 EPX TO EPX @ LOBBY - D5 / A160
- 5 EPX TO EPX @ APPARATUS - G5 / A160

A1 FINISH PLAN - FIRST FLOOR
1/4" = 1'-0"

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FINISH PLAN - FIRST FLOOR

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SANIBEL FIRE & RESCUE DISTRICT
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**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
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2	ADDENDUM #2	03.18.24

FLOOR FINISH LEGEND

- FLOOR FINISH LVT-1, TYPICAL U.N.O.
- FLOOR FINISH WOOD EPX-1 U.N.O.
- FLOOR FINISH EPX-2 U.N.O.
- FLOOR FINISH EPX-3 U.N.O.
- FLOOR FINISH FLOOR STRIPE EPX-4 U.N.O.
- FLOOR FINISH COMPOSITE WOOD DECKING CW-1 U.N.O.
- FLOOR FINISH RUBBER STAIR TREAD/RISER FLOOR RF-1RF-2 U.N.O.
- FLOOR FINISH RUBBER GYM FLOOR RF-3 U.N.O.
- FLOOR FINISH RUBBER ROOF TILES RF-5 U.N.O.
- FLOOR FINISH BROOMED CONCRETE C-2 U.N.O.

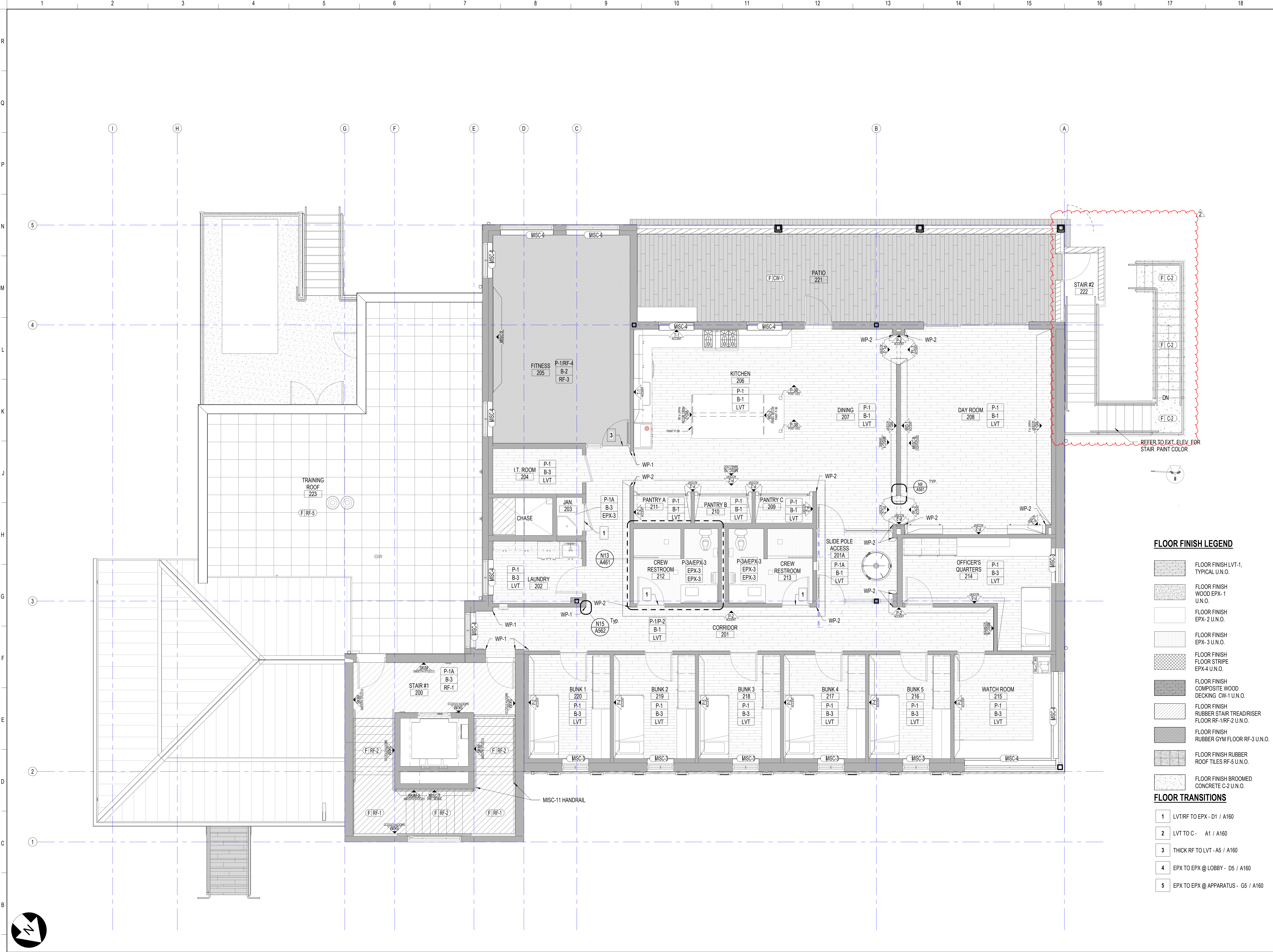
FLOOR TRANSITIONS

- 1 LVT/RF TO EPX - D1 / A160
- 2 LVT TO C - A1 / A160
- 3 THICK RF TO LVT - A5 / A160
- 4 EPX TO EPX @ LOBBY - D5 / A160
- 5 EPX TO EPX @ APPARATUS - G5 / A160

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**FINISH PLAN - SECOND
FLOOR**

A162
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A1 FINISH PLAN - SECOND FLOOR
1/4" = 1'-0"

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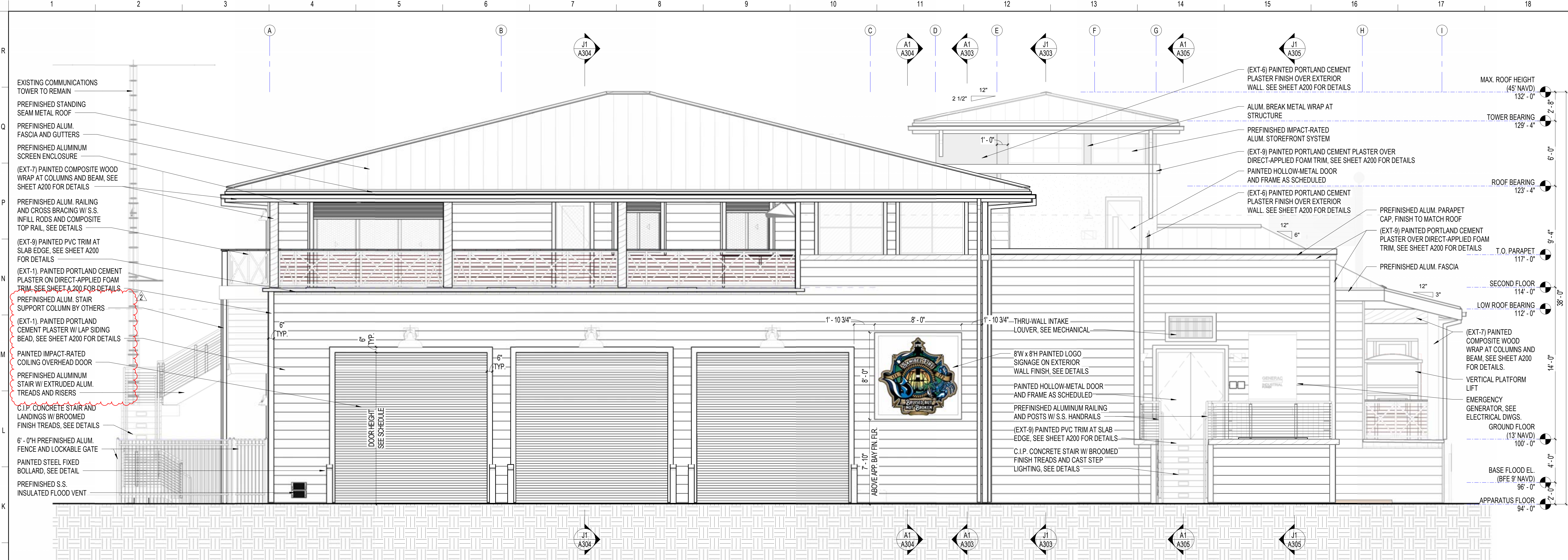
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**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
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SANIBEL, FLORIDA 33957



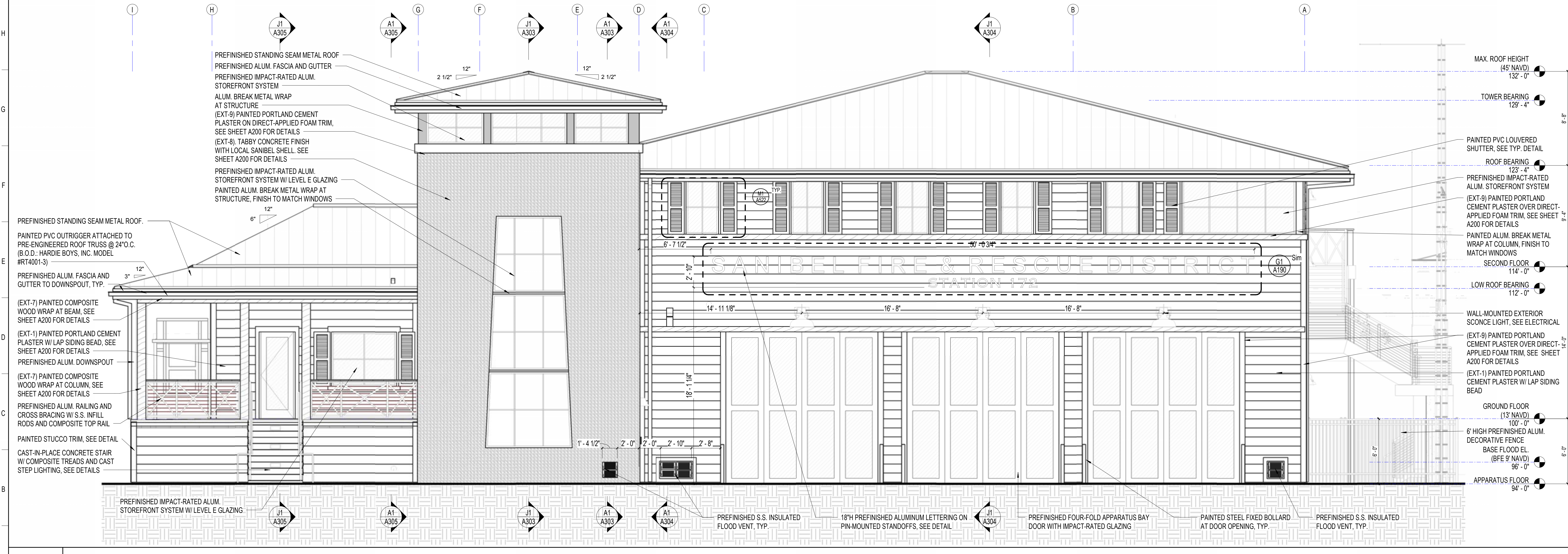
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J1 REAR ELEVATION - SOUTH

1/4" = 1'-0"

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A1 FRONT ELEVATION - NORTH

1/4" = 1'-0"

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EXTERIOR ELEVATIONS

A201

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2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
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SANIBEL, FLORIDA 33957



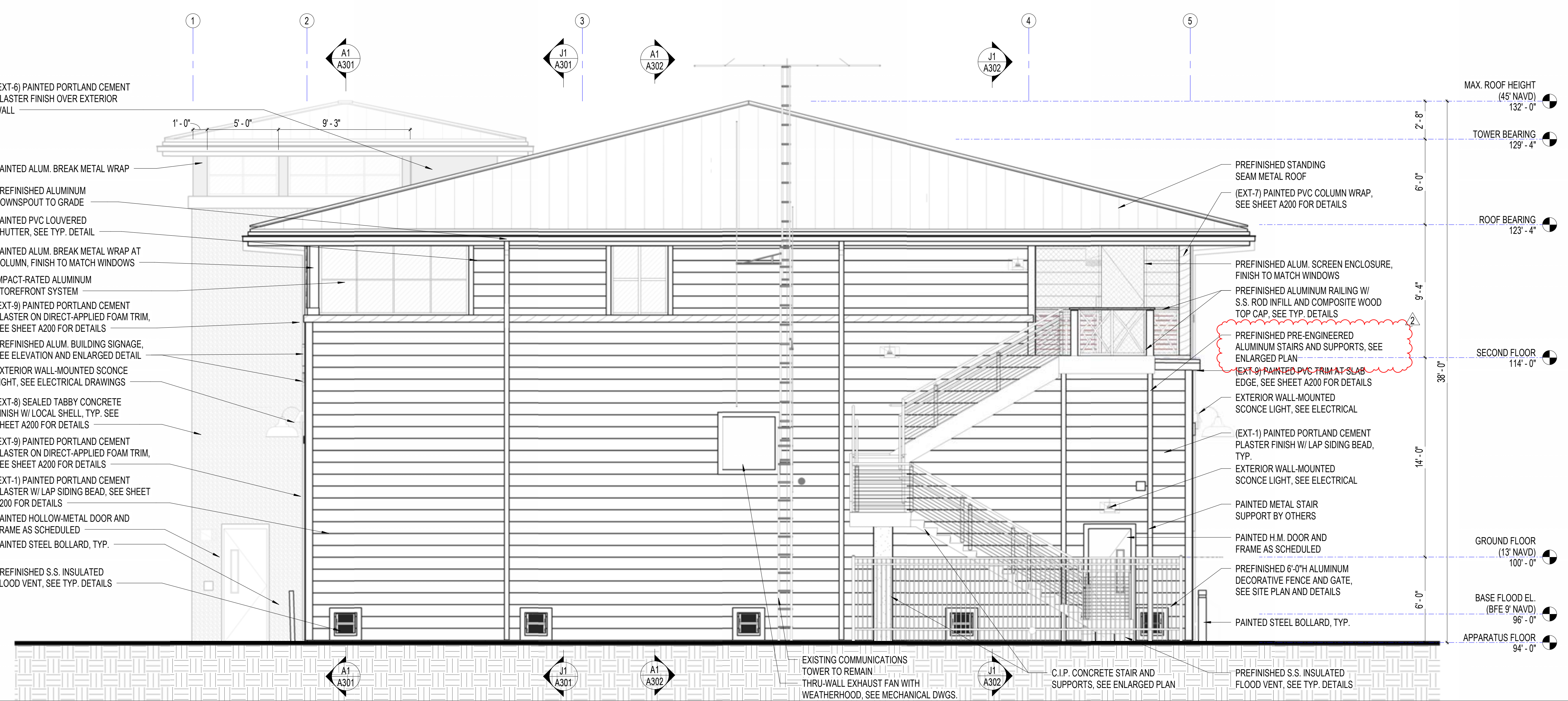
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J1 SIDE ELEVATION - EAST

1/4" = 1'-0"

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1	ADDED	10/18/24



A1 SIDE ELEVATION - WEST

1/4" = 1'-0"

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EXTERIOR ELEVATIONS

A202
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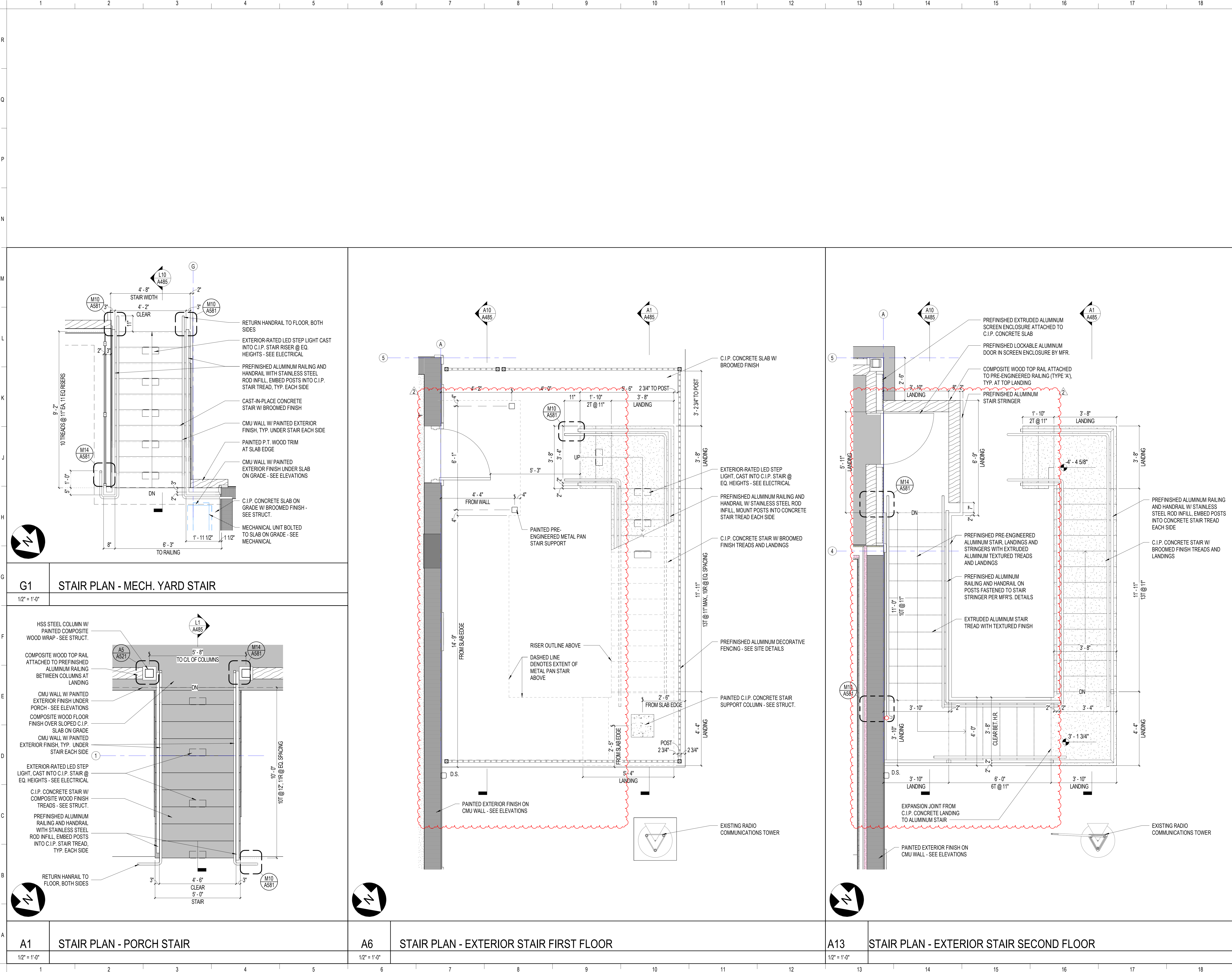
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**SANIBEL FIRE AND RESCUE
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**ENLARGED STAIR PLANS -
EXTERIOR**

A482

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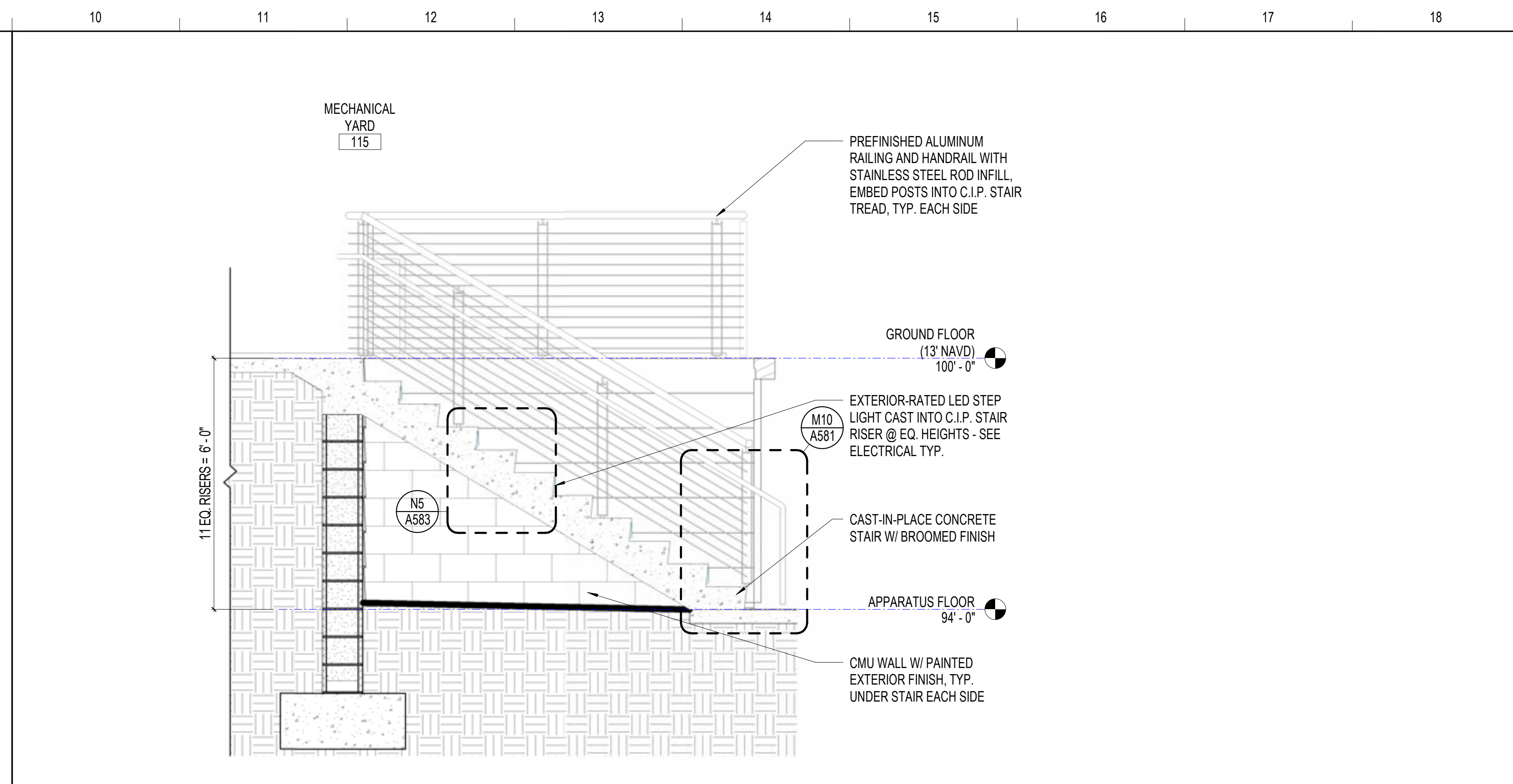
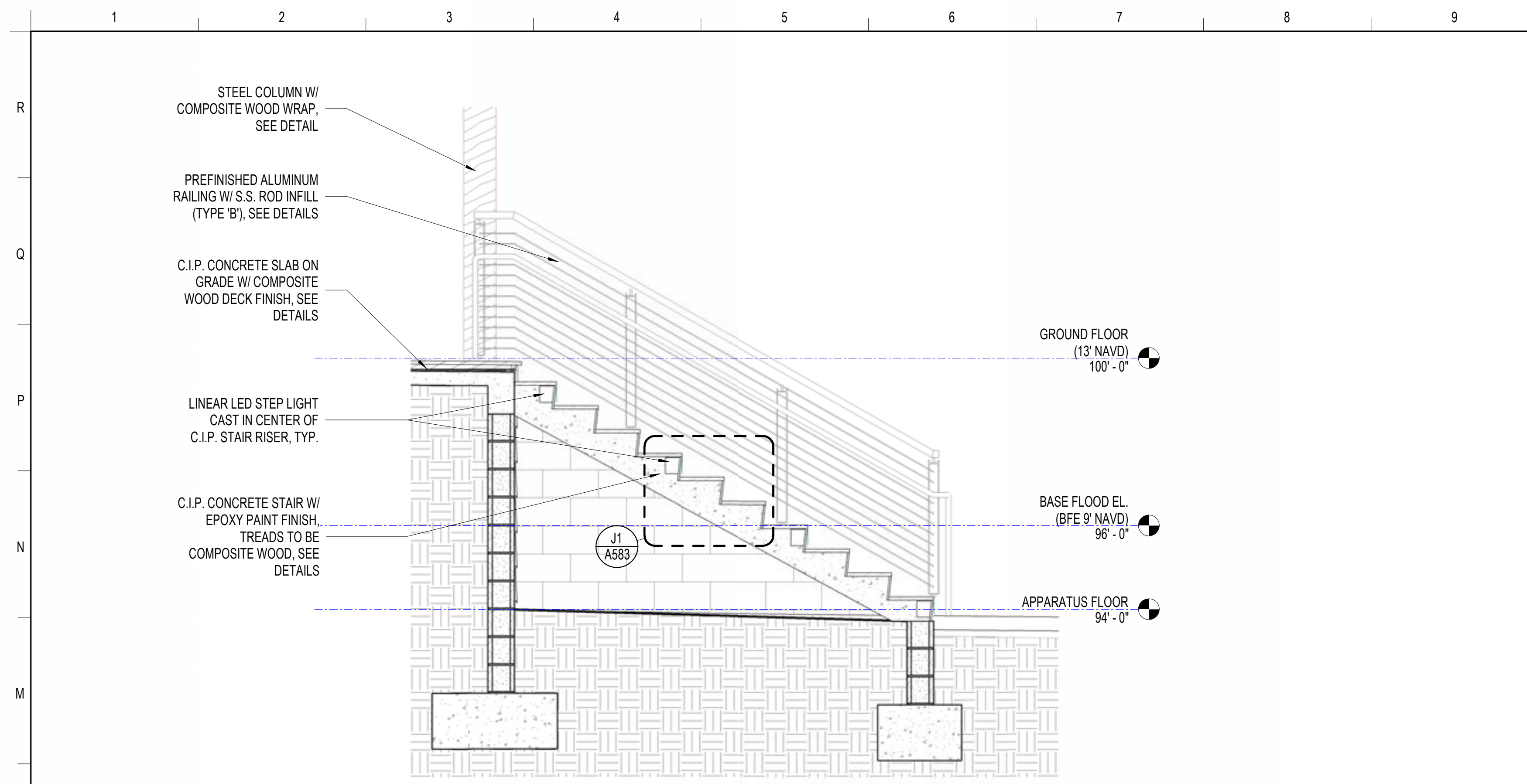
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PROJECT LOCATION:
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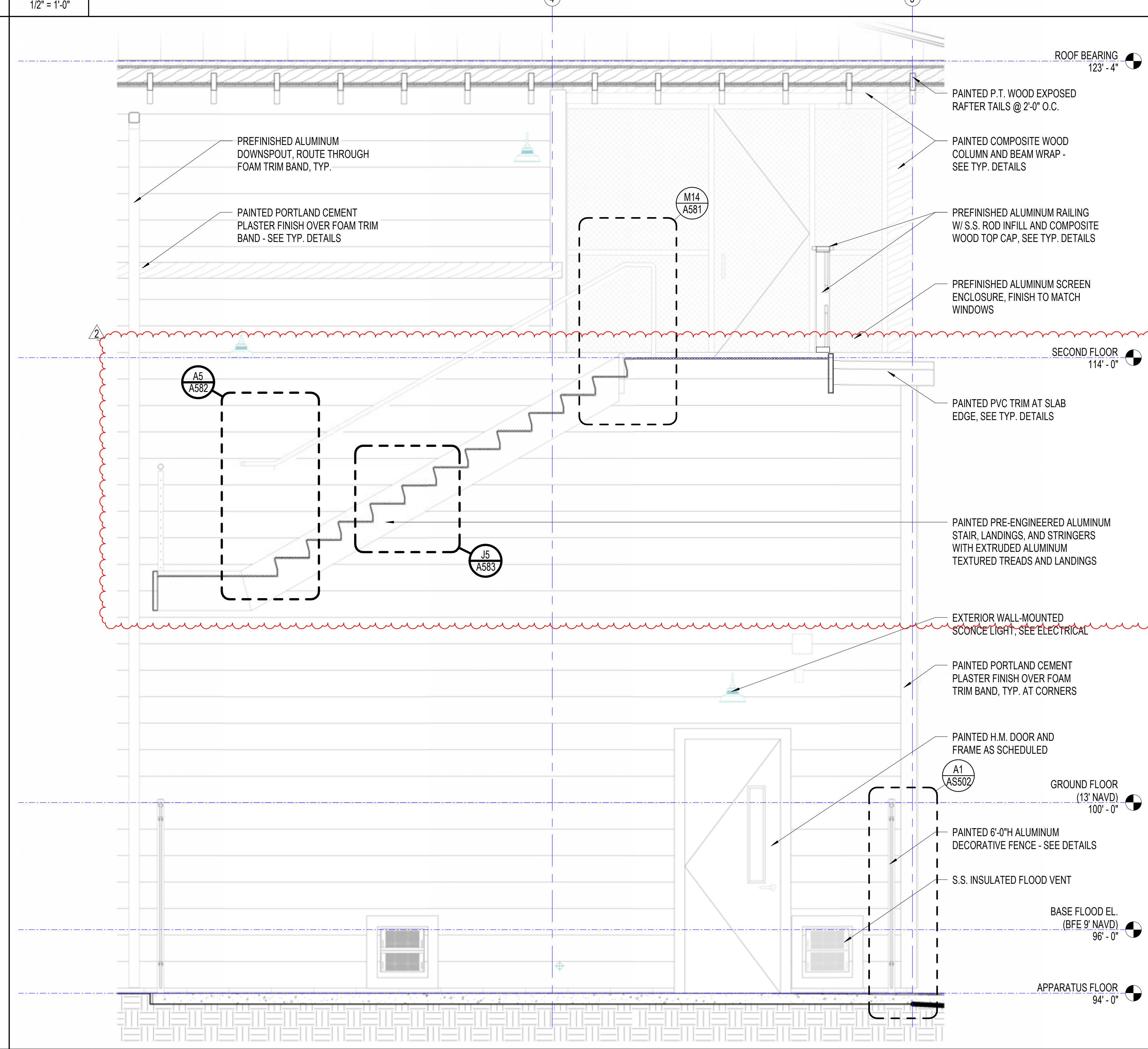
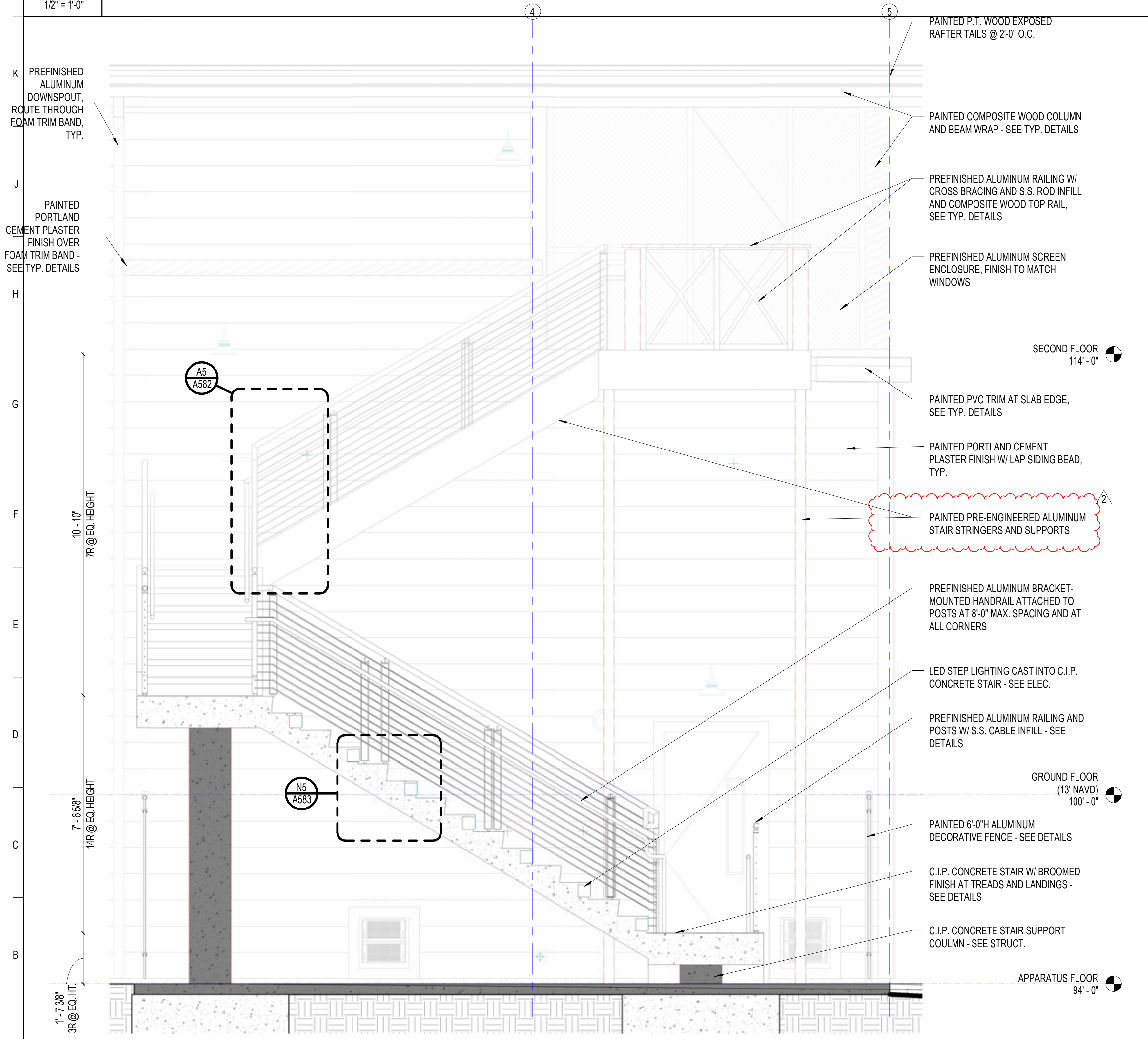


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L1 STAIR SECTION - EXTERIOR C.I.P. STAIR
1/2" = 1'-0"

L10 STAIR SECTION - MECHANICAL YARD
1/2" = 1'-0"



A1 EXTERIOR STAIR SECTION 1
1/2" = 1'-0"

A10 EXTERIOR STAIR SECTION 2
1/2" = 1'-0"

REVISIONS		
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1	ADDED	10/18/24

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ENLARGED STAIR SECTIONS

A485

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Level	DOOR NUMBER	DOOR PANEL LEAF				DOOR FRAME				DOOR RATING	STC RATING	DOOR HARDWARE	ACCESS CONTROL	DETAILS			COMMENTS
		WIDTH	HEIGHT	TYPE	MATERIAL	GLAZING TYPE	TYPE	MATERIAL	HEAD					JAMB	THRESHOLD / SILL		
STORAGE FIN. FLR.	004	3'-0"	7'-0"	F	HM			3	HM			06		A11/A510	F1/A510	L1/A510	NEW EXTERIOR FINISH ON EXISTING SWING DOOR AND FRAME
STORAGE FIN. FLR.	004A	10'-0"	8'-0"	OHS	STL			MFG	STL					J15/A512	E15/A512	A15/A512	NEW IMPACT-RATED SECTIONAL GARAGE DOOR IN EXISTING WALL OPENING
STORAGE FIN. FLR.	004B	10'-0"	8'-0"	OHS	STL			MFG	STL					J15/A512	E15/A512	A15/A512	NEW IMPACT-RATED SECTIONAL GARAGE DOOR IN EXISTING WALL OPENING
APPARATUS FLOOR	001	3'-0"	8'-0"	N	HM	GL-1A		3	HM			02	Y	A11/A510	F1/A510	L1/A510	
APPARATUS FLOOR	001A	14'-0"	14'-0"	BFA	STL	GL-4			STL			14		L1/A512	F1/A512	A1/A512	
APPARATUS FLOOR	001B	14'-0"	14'-0"	BFA	STL	GL-4			STL			14		L1/A512	F1/A512	A1/A512	
APPARATUS FLOOR	001C	14'-0"	14'-0"	BFA	STL	GL-4			STL			14		L1/A512	F1/A512	A1/A512	
APPARATUS FLOOR	001D	14'-0"	14'-0"	OHMC	STL				STL			14		N11/A512	E11/A512	A11/A512	
APPARATUS FLOOR	001E	14'-0"	14'-0"	OHMC	STL				STL			14		N11/A512	E11/A512	A11/A512	
APPARATUS FLOOR	001F	14'-0"	14'-0"	OHMC	STL				STL			14		N11/A512	E11/A512	A11/A512	
APPARATUS FLOOR	002	3'-0"	8'-0"	N	HM	FG-45		3	HM	60		02	Y	A1/A510	F1/A510	L1/A510	
APPARATUS FLOOR	003	3'-0"	8'-0"	F	HM			3	HM			06		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	100	3'-0"	8'-0"	FG	ALUM.	SF GLAZING (GL-2)		3	ALUM.			01					
GROUND FLOOR (13' NAVD)	101	3'-0"	8'-0"	F	HM			3	HM			07	Y	A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	102	3'-0"	8'-0"	F	HM			3	HM			08		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	103	3'-0"	8'-0"	N	HM	FG-45		3	HM	60		06	Y	A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	103A	3'-0"	8'-0"	N	HM	FG-45		3	HM	60		06		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	104	3'-0"	8'-0"	N	HM	FG-45		3	HM	60		10		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	104A	3'-0"	8'-0"	N	HM	FG-45		3	HM	45		06		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	105	3'-0"	8'-0"	F	HM			3	HM			09		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	105A	3'-0"	8'-0"	SSD	GLASS	GT			S.S.					N14/A513	F14/A513 / J14/A513		STEAM SHOWER DOOR
GROUND FLOOR (13' NAVD)	107	3'-0"	8'-0"	F	HM			3	HM	45		11		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	108	3'-0"	8'-0"	N	HM	FG-45		3	HM	45		06		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	110	3'-0"	8'-0"	N	HM	GL-4		3	HM	45		06	Y	A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	111	3'-0"	8'-0"	N	HM	GL-4		3	HM	45		06		A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	111A	3'-0"	8'-0"	N	HM	GL-1A		3	HM			02		A1/A510	F1/A510	L1/A510	
GROUND FLOOR (13' NAVD)	112	3'-0"	8'-0"	N	HM	FG-45		3	HM	45		06	Y	A6/A510	F6/A510	L1/A510	
GROUND FLOOR (13' NAVD)	113	6'-0"	8'-0"	F(2)	HM			4	HM			04	Y	A1/A510	F1/A510	L1/A510	
GROUND FLOOR (13' NAVD)	124	3'-0"	8'-0"	BY MFR.	BY MFR.	BY MFR.	BY MFR.	BY MFR.	BY MFR.	BY MFR.	BY MFR.			L9/A581	A9/A581		ELEVATOR DOOR BY MANUFACTURER
SECOND FLOOR	200	3'-0"	8'-0"	N	HM	FG-45		3	HM	60		05		A6/A510	F6/A510	L1/A510	
SECOND FLOOR	200A	3'-0"	8'-0"	N	HM	FG-45		3	HM	60		03		A1/A510	F1/A510	L1/A510	
SECOND FLOOR	201	3'-0"	7'-10"	FG	ALUM.	SF GLAZING (GT)		1	ALUM.								DUAL-SWING ACTION DOOR W/ PUSH BAR
SECOND FLOOR	201A	3'-0"	7'-10"	FG	ALUM.	SF GLAZING (GT)		1	ALUM.			12					DUAL-SWING ACTION DOOR W/ PUSH BAR
SECOND FLOOR	202	3'-0"	8'-0"	N	WD	GL-4		1	HM			10		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	203	3'-0"	8'-0"	F	WD			1	HM			10		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	204	3'-0"	8'-0"	N	WD	GL-4		1	HM			06	Y	A11/A510	F11/A510	L1/A510	
SECOND FLOOR	205	3'-0"	7'-10"	FG	ALUM.	SF GLAZING (GT)		1	ALUM.								
SECOND FLOOR	206	3'-0"	8'-0"	FG	ALUM.	SF GLAZING (GL-2)		1	ALUM.			01					
SECOND FLOOR	208	11'-11 1/2"	7'-11 1/2"	SGD	ALUM.	GL-3			ALUM.					L11/A511	F11/A511	A11/A511	IMPACT-RATED SLIDING GLASS DOOR WITH LEVEL E FABRIC SHUTTER
SECOND FLOOR	209	6'-6"	8'-0"	OHC	STL				STL			14		N11/A512	J11/A512	A11/A512	
SECOND FLOOR	210	6'-6"	8'-0"	OHC	STL				STL			14		N11/A512	J11/A512	A11/A512	
SECOND FLOOR	211	6'-6"	8'-0"	OHC	STL				STL			14		N11/A512	J11/A512	A11/A512	
SECOND FLOOR	212	3'-0"	8'-0"	F	WD			1	HM			08		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	213	3'-0"	8'-0"	F	WD			1	HM			08		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	214	3'-0"	8'-0"	F	WD			1	HM			10		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	215	3'-0"	8'-0"	N	WD	GL-4		1	HM	20		10		A11/A510	F11/A510	L1/A510	PROVIDE HOLD-OPEN HARDWARE
SECOND FLOOR	216	3'-0"	8'-0"	F	WD			1	HM	20		10		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	217	3'-0"	8'-0"	F	WD			1	HM	20		10		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	218	3'-0"	8'-0"	F	WD			1	HM	20		10		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	219	3'-0"	8'-0"	F	WD			1	HM	20		10		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	220	3'-0"	8'-0"	F	WD			1	HM	20		10		A11/A510	F11/A510	L1/A510	
SECOND FLOOR	222	3'-0"	7'-10"	FG3	ALUM.	SCREEN		1	ALUM.			13					DOOR IN SCREEN ENCLOSURE BY MANUFACTURER
SECOND FLOOR	224	3'-0"	8'-0"	BY MFR.	BY MFR.	BY MFR.	BY MFR.	BY MFR.	BY MFR.	BY MFR.	BY MFR.			L9/A581	A9/A581		ELEVATOR DOOR BY MANUFACTURER

NOTE: SEE SPECIFICATIONS FOR DOOR HARDWARE SETS

GENERAL DOOR NOTES:

- GALVANIZED DOOR & FRAME - ALL EXTERIOR DOORS AND INTERIOR DOORS WHERE WATER MAY OCCUR.
- INSULATED DOOR - ALL EXTERIOR DOORS.
- TAMPER PROOF HINGES - ALL EXTERIOR DOORS.
- DOOR GASKET (SOUND SEALS) AROUND DOOR PERIMETER - ALL SPACES.
- KEYED REMOVABLE MULLION - ALL DOOR PAIRS WITH EGRESS HARDWARE.
- DOOR GASKET (SMOKE SEAL) AROUND DOOR PERIMETER - ALL DOORS IN RATED CORRIDORS THAT ARE NOT EDUCATIONAL SPACES.
- WEATHER SEALS AROUND DOOR PERIMETER - ALL EXTERIOR DOORS.
- THRESHOLD - ALL EXTERIOR DOORS.
- OVERHEAD DOOR OVERALL HEIGHT MUST INCLUDE OPENING HEIGHT PLUS DISTANCE TO HOUSING/OPERATOR LOCATION ABOVE CEILING.
- PROVIDE ALUMINUM DOOR DRIP EDGE FOR ALL EXTERIOR DOORS, TYPICAL U.N.O.
- UNDERCUT AND OVERCUT DOOR FOR TOILET ROOMS, TYPICAL U.N.O.
- REPAIR AND PREP ALL EXISTING DOORS DESIGNATED TO REMAIN FOR NEW FINISHES.

DOOR COMMENTS

- 180 DEGREE SWING - COORDINATE LOCATION IN WALL TO ALLOW FOR FULL SWING. IF DOUBLE DOOR, BOTH PANELS ARE TO SWING 180 DEGREES WHERE APPLICABLE.
- SOUND CONTROL ADJUSTABLE DOOR GASKET / AUTOMATIC DOOR BOTTOM / THRESHOLD.
- PROVIDE WIDE ANGLE VIEWER.
- ADA DOOR OPERATOR - ONE LEAF - SEE ELECTRICAL DRAWINGS AND DOOR HARDWARE SPECS.
- PREP FRAME AND DOOR FOR ACCESS CONTROL.
- HARDWARE BY MANUFACTURER.
- METAL SOUND CONTROL DOOR ASSEMBLY / STC 45 MINIMUM.
- EXISTING ACCESS CONTROL TO BE PROGRAMMED - COORDINATE WITH OWNER.
- SECURITY HARDWARE.
- DOOR INTERLOCKED SO ONLY ONE CAN BE OPENED AT A TIME. TO BE ON A 30 SEC. DELAY W/PROXY CARD OVERRIDE.
- ORNAMENTAL FENCE GATE. PROVIDE LATCH AND DEADBOLT.
- ORNAMENTAL FENCE GATE, PROVIDE PANIC HARDWARE AND ACCESS CONTROL.
- HOLD OPEN DOOR STOP.
- LATCH CONFIRMATION.
- KEY ACTIVATED MOTORIZED OVERHEAD DOOR WITH SECURITY CONTACTS.



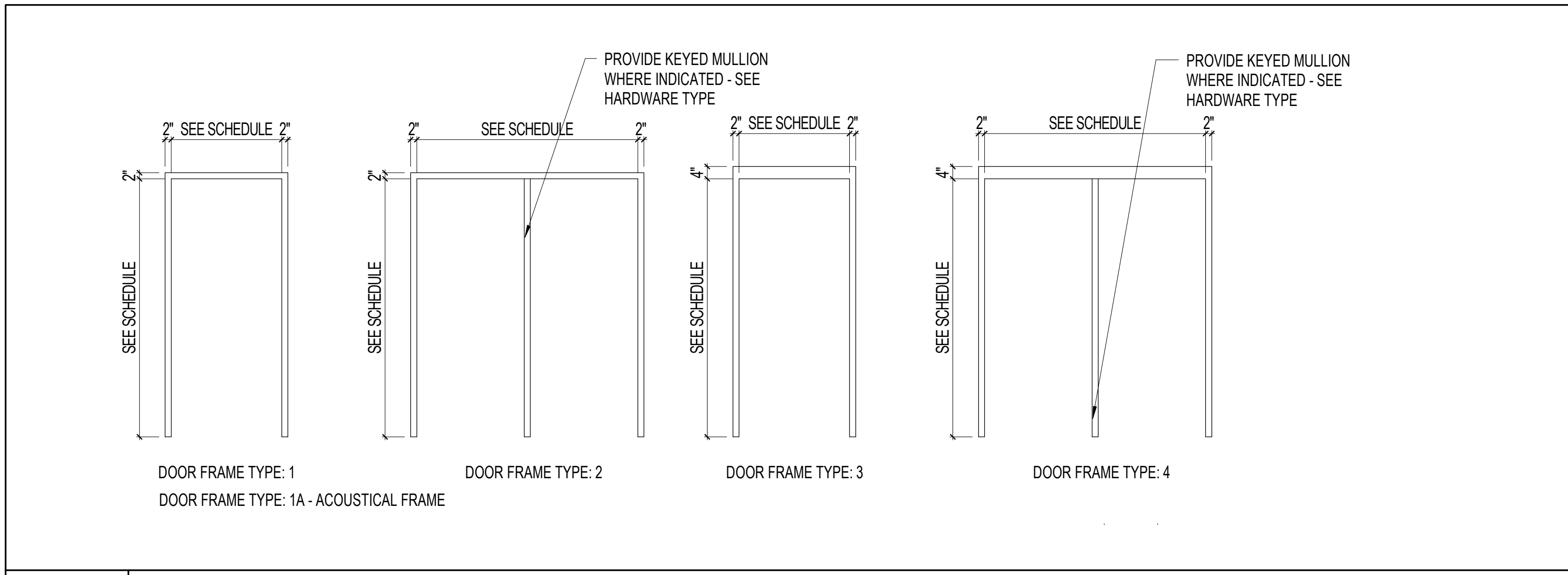
SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957

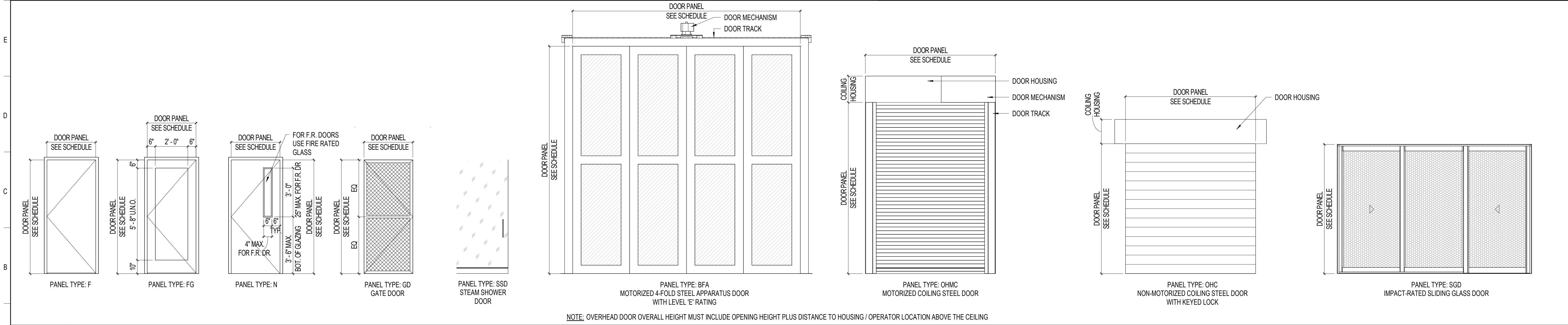


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DOOR FRAME TYPES LEGEND

REVISIONS		
MARK	DESCRIPTION	DATE
2	ADDendum #2	02.18.24



DOOR PANEL TYPES

NOTE: OVERHEAD DOOR OVERALL HEIGHT MUST INCLUDE OPENING HEIGHT PLUS DISTANCE TO HOUSING / OPERATOR LOCATION ABOVE THE CEILING

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: Author

DOOR SCHEDULE, DOOR AND FRAME TYPES



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

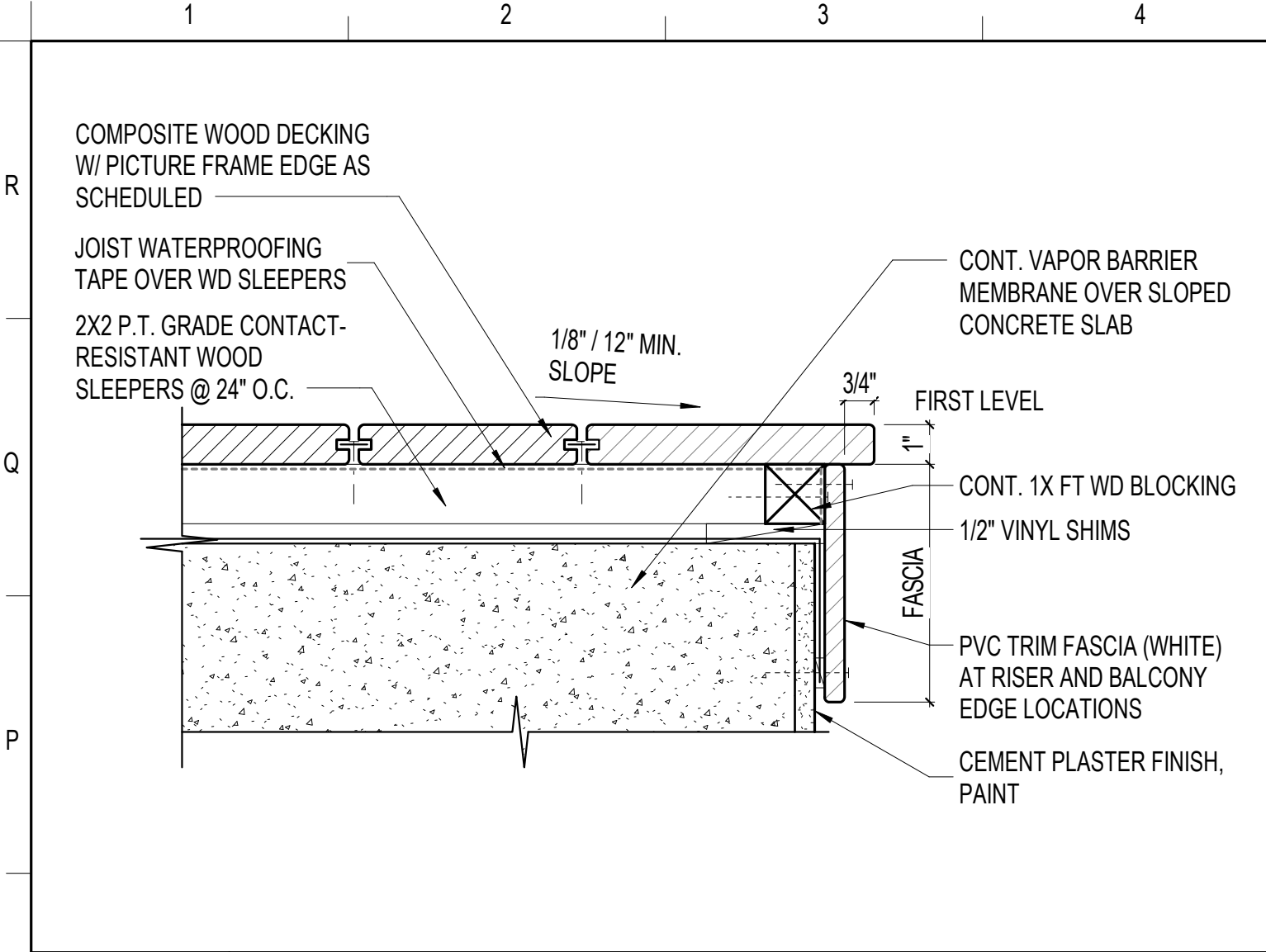
**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957

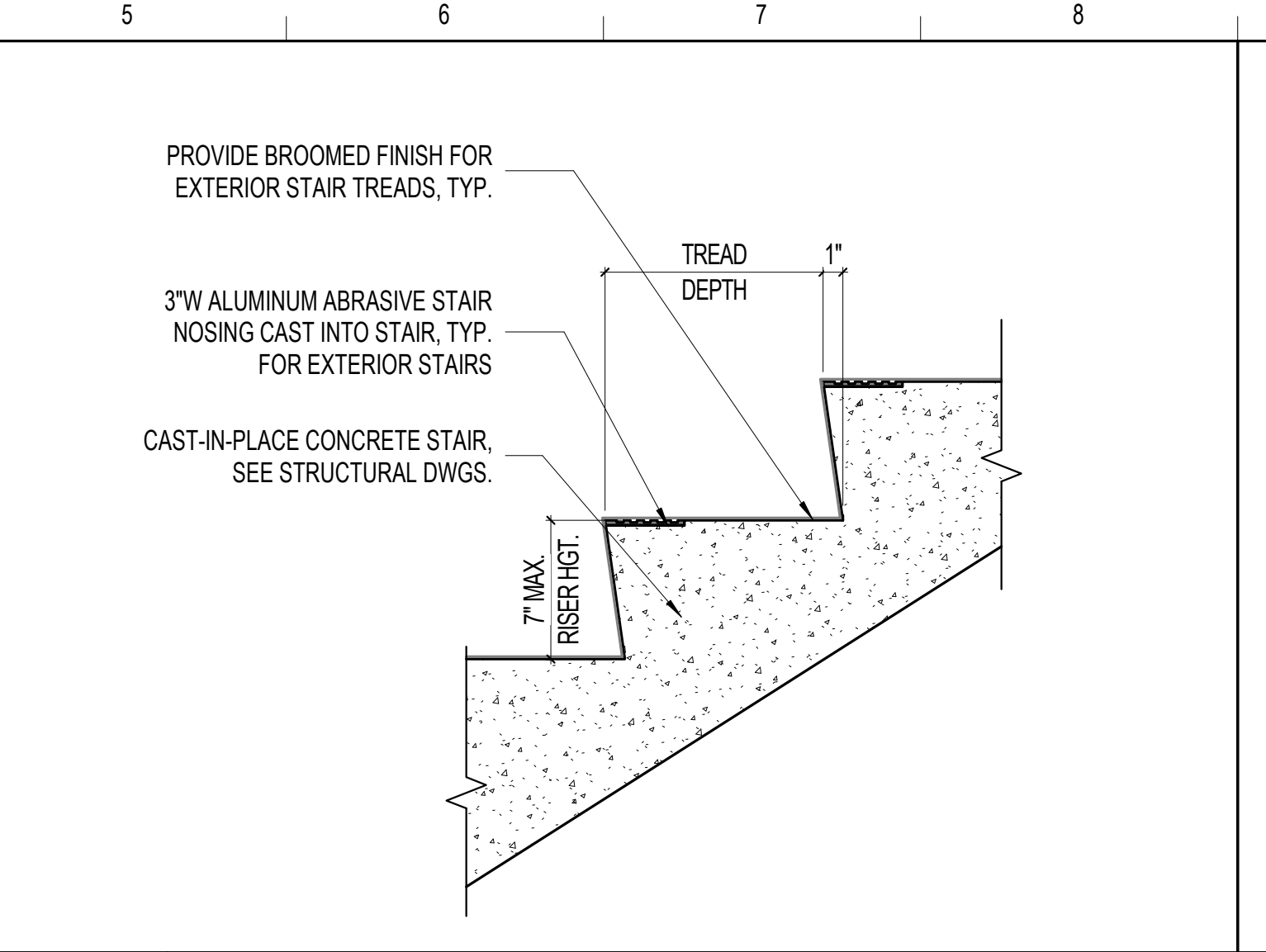


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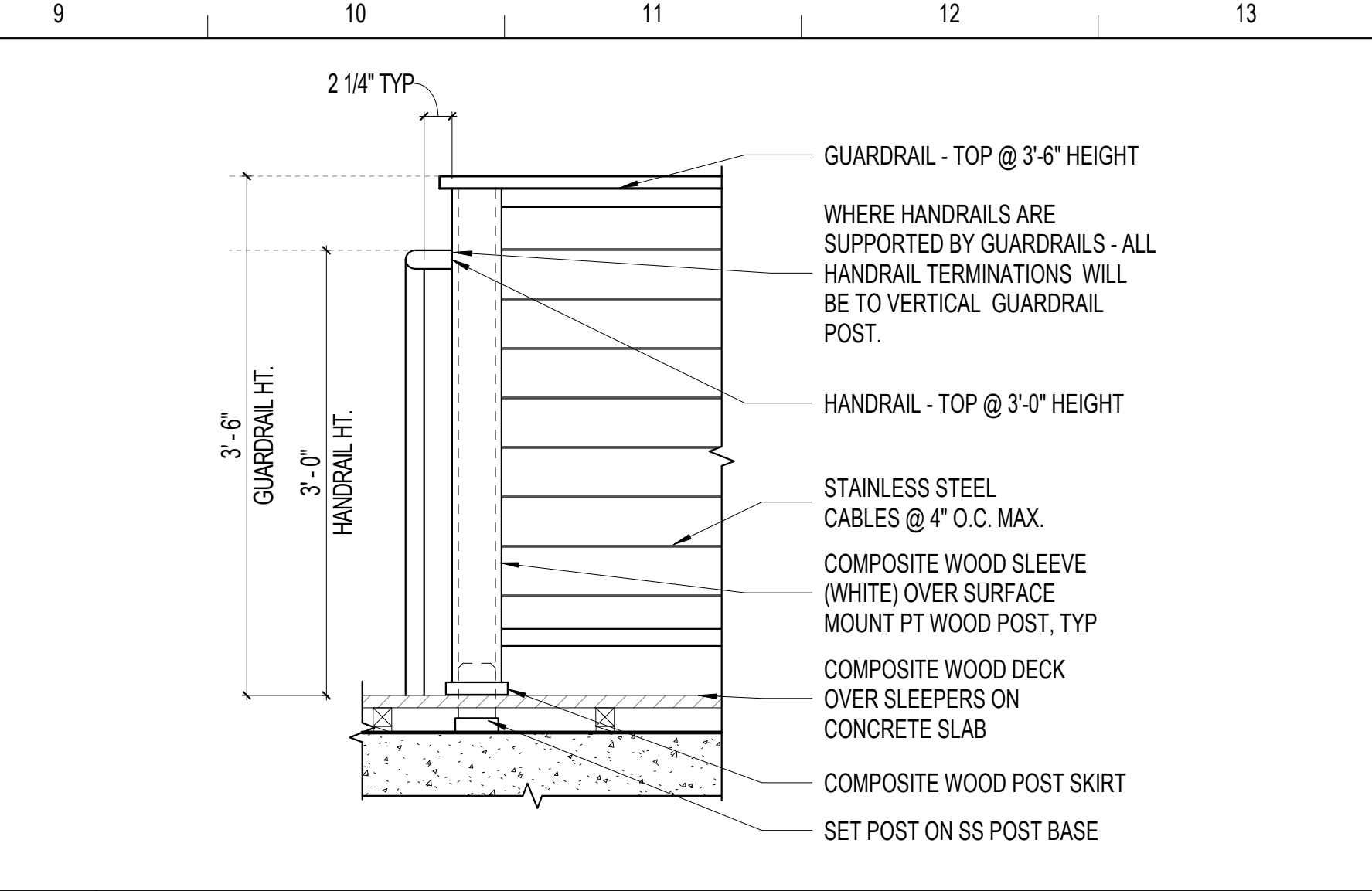
REVISIONS		
MARK	DESCRIPTION	DATE
1	PERSET COMMENTS	10.14.24



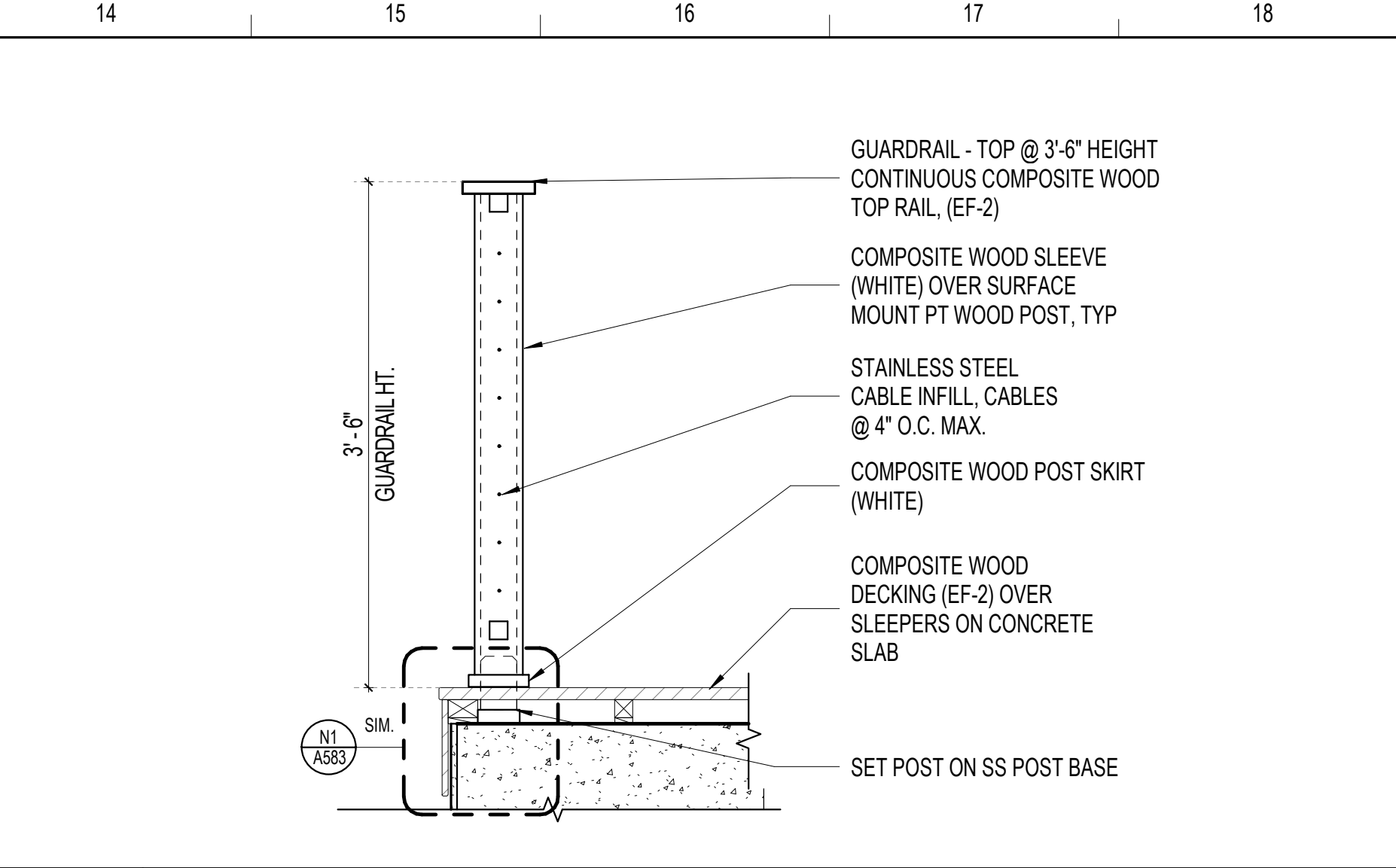
N1 TOP RISER DETAIL - COMP. WD. OVER CONC. STAIR
3" = 1'-0"



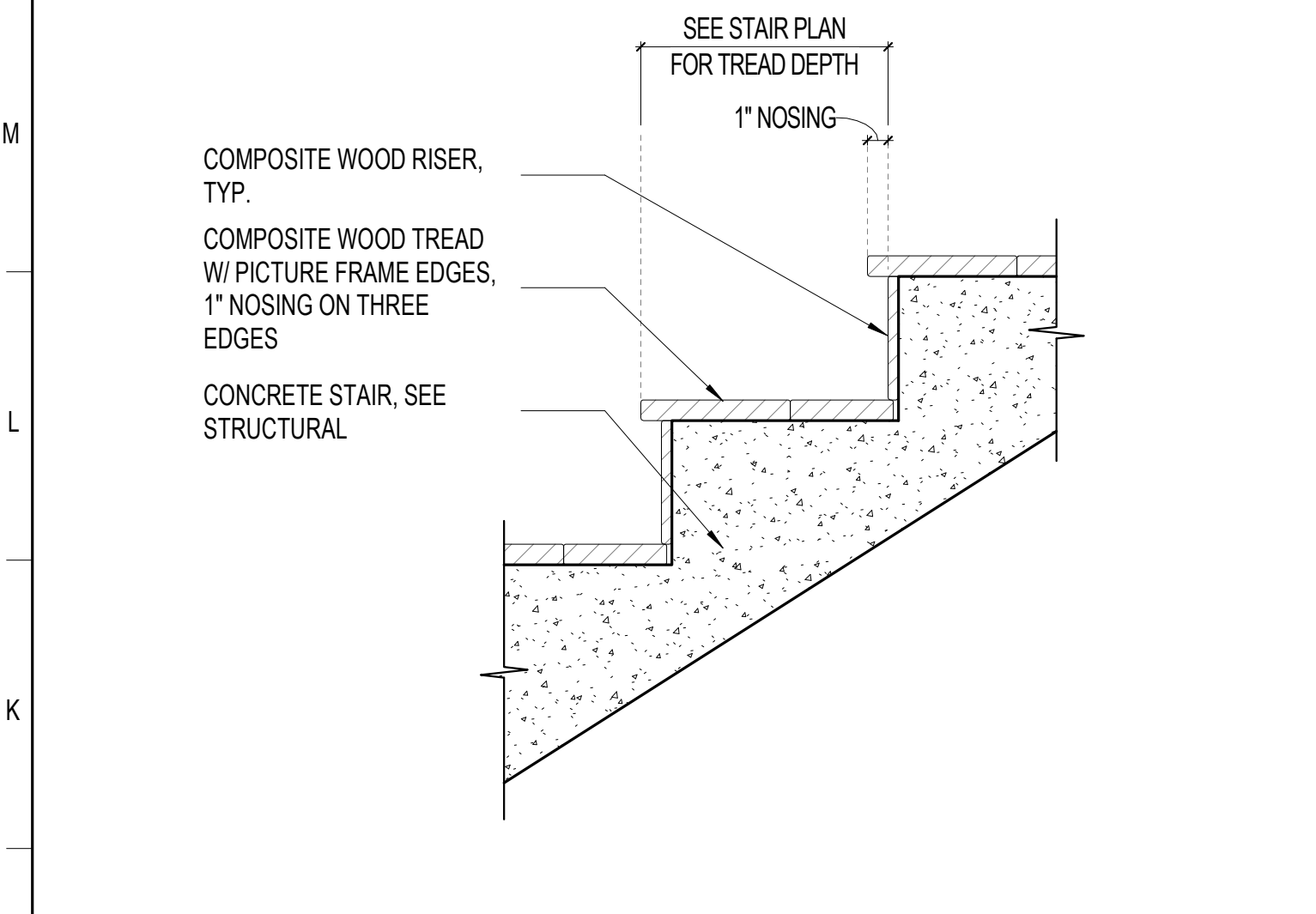
N5 EXTERIOR CONCRETE STAIR TREAD AND RISER DETAIL
1 1/2" = 1'-0"



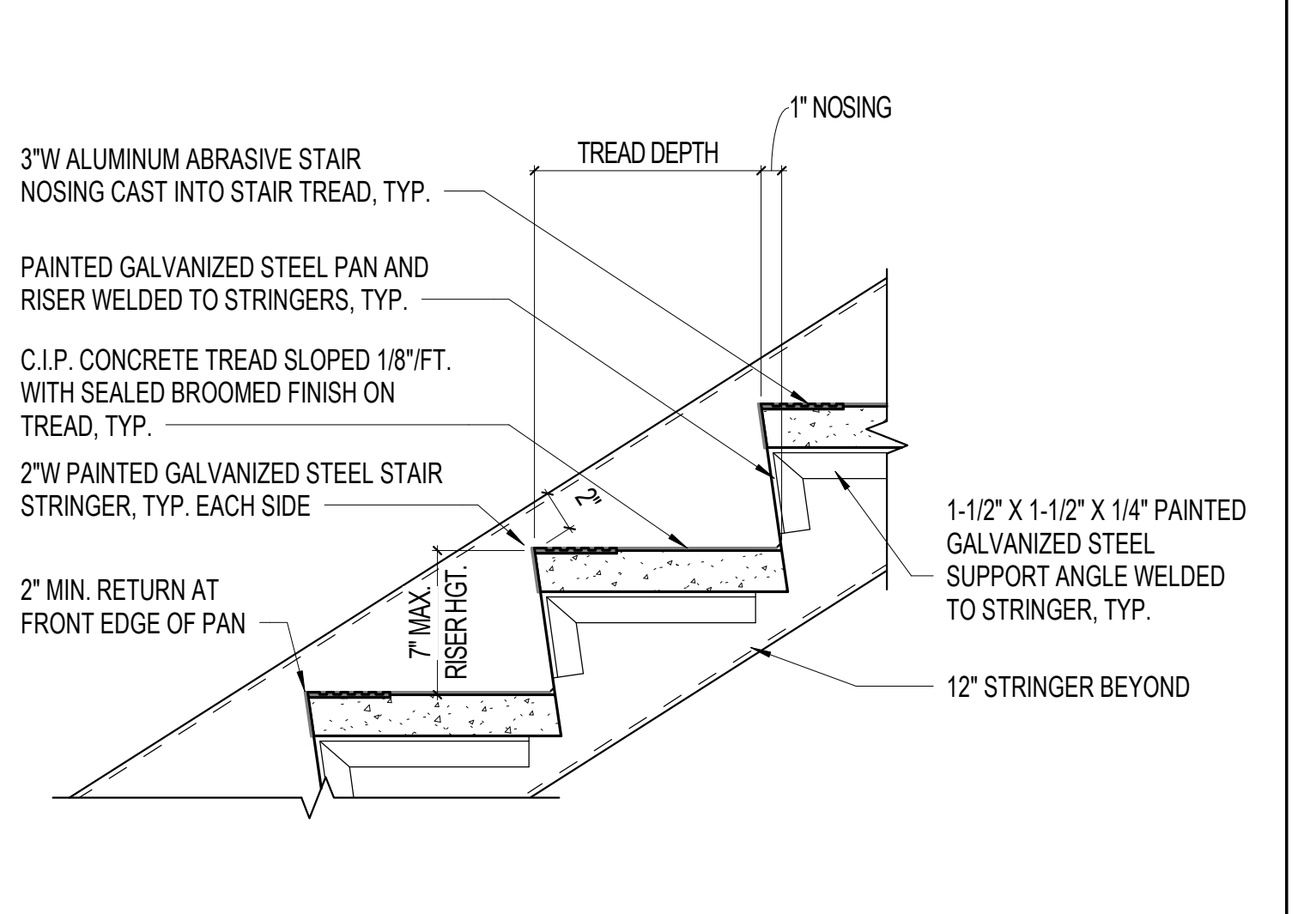
N9 GUARDRAIL SECTION AT LANDING
1" = 1'-0"



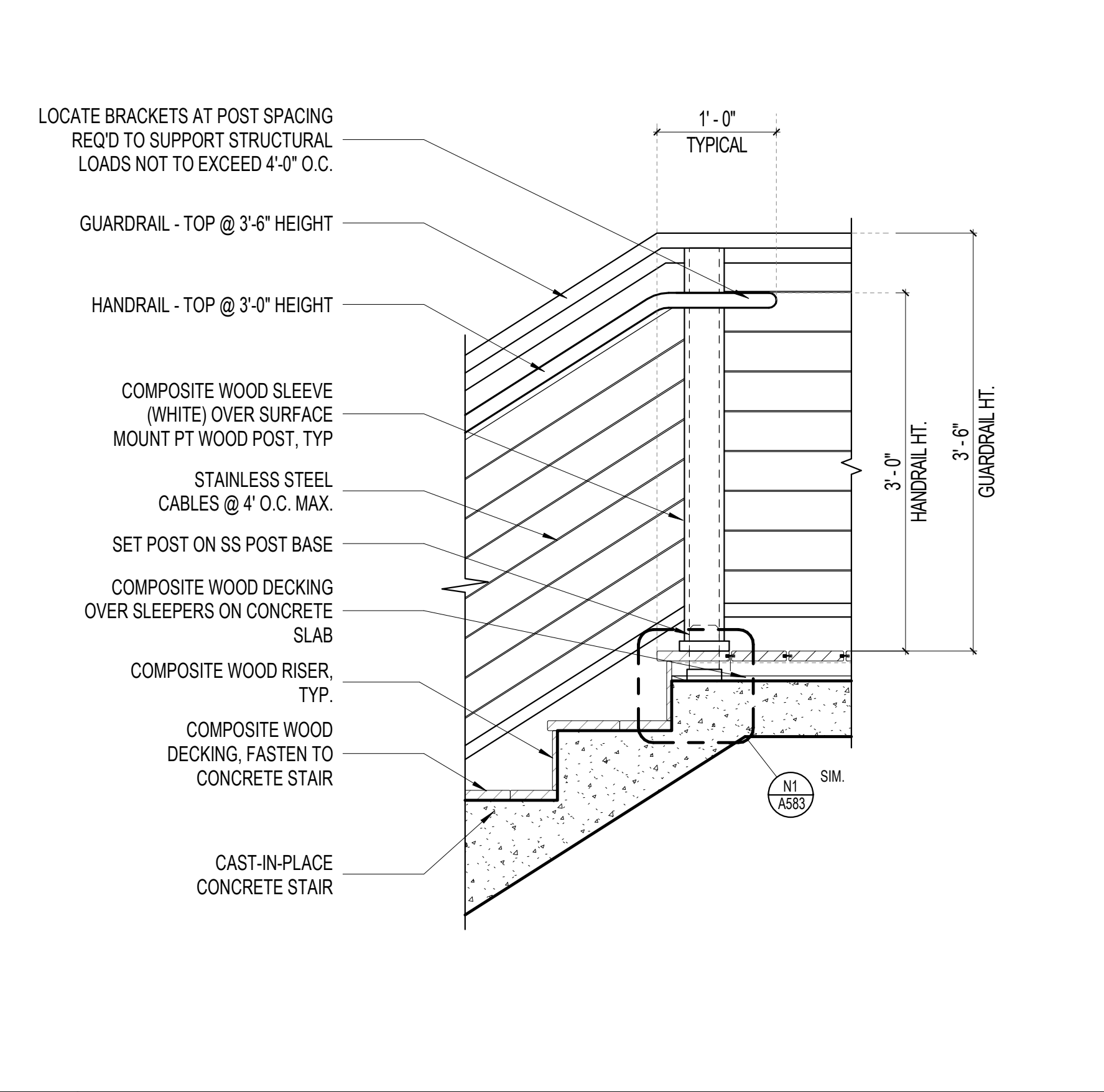
N14 GUARDRAIL SECTION AT PATIO
1" = 1'-0"



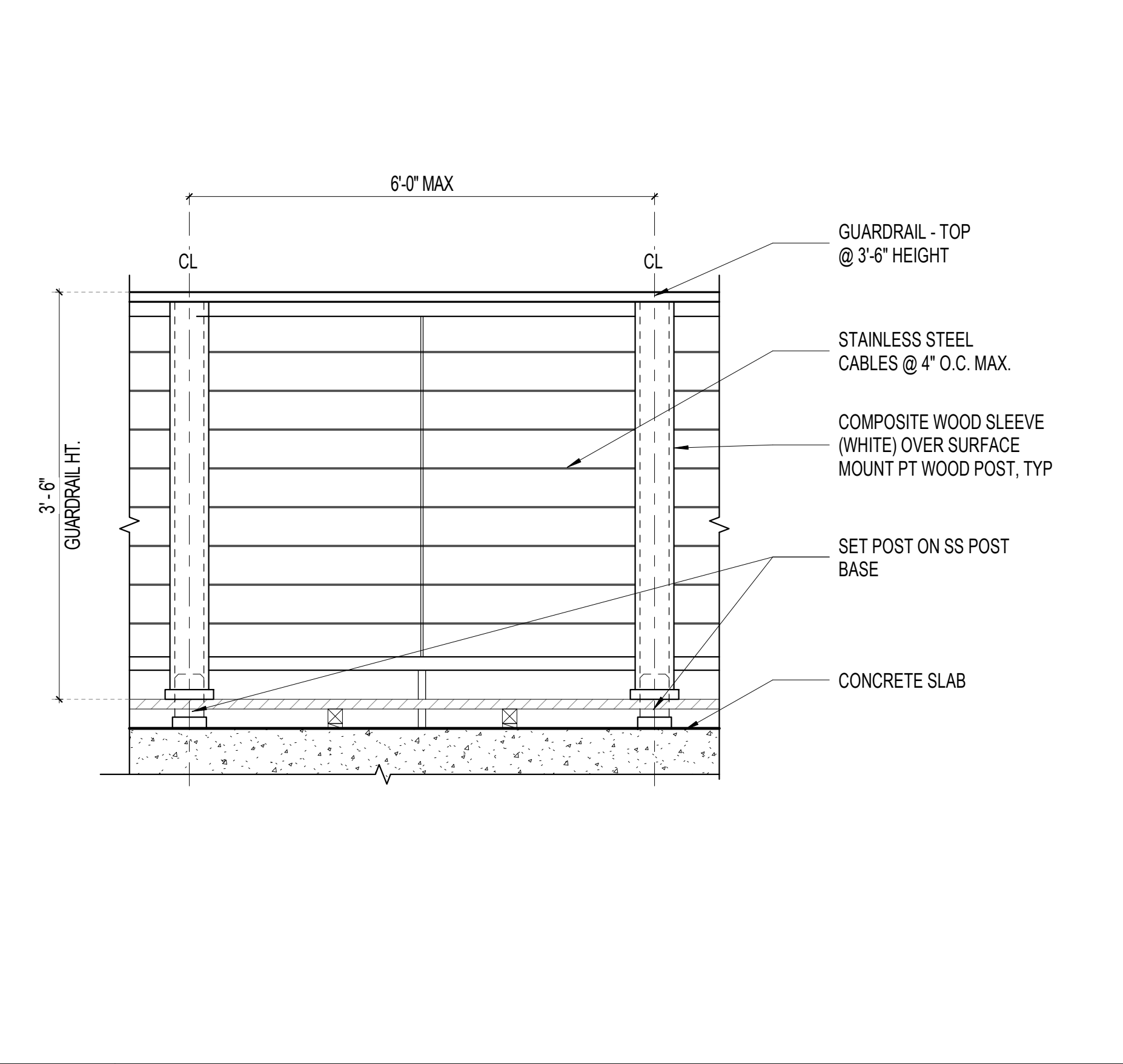
J1 TYP. TREAD DETAIL - COMP. WD. OVER CONC. STAIR
1 1/2" = 1'-0"



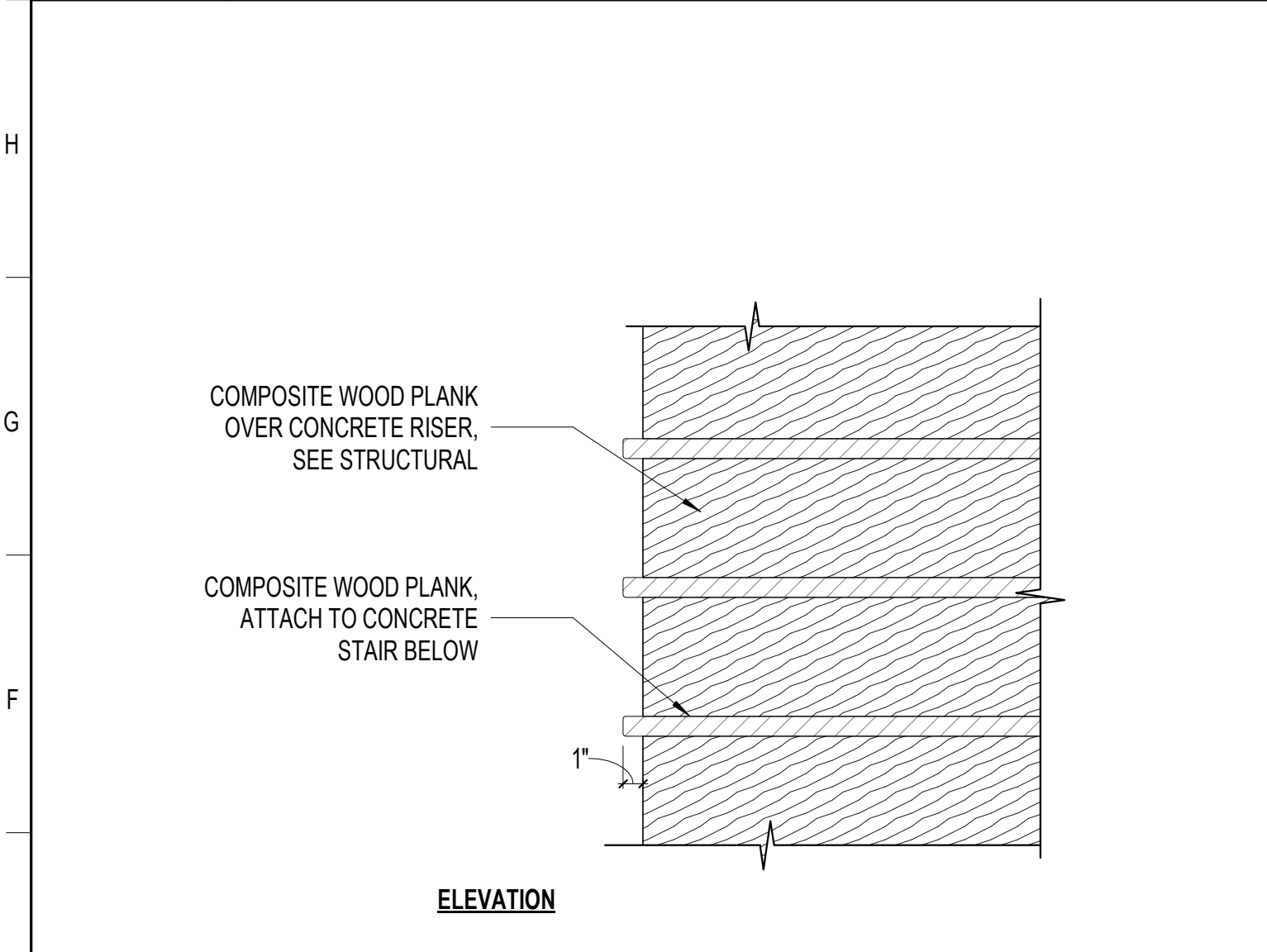
J5 EXTERIOR METAL STAIR TREAD AND RISER DETAIL
1 1/2" = 1'-0"



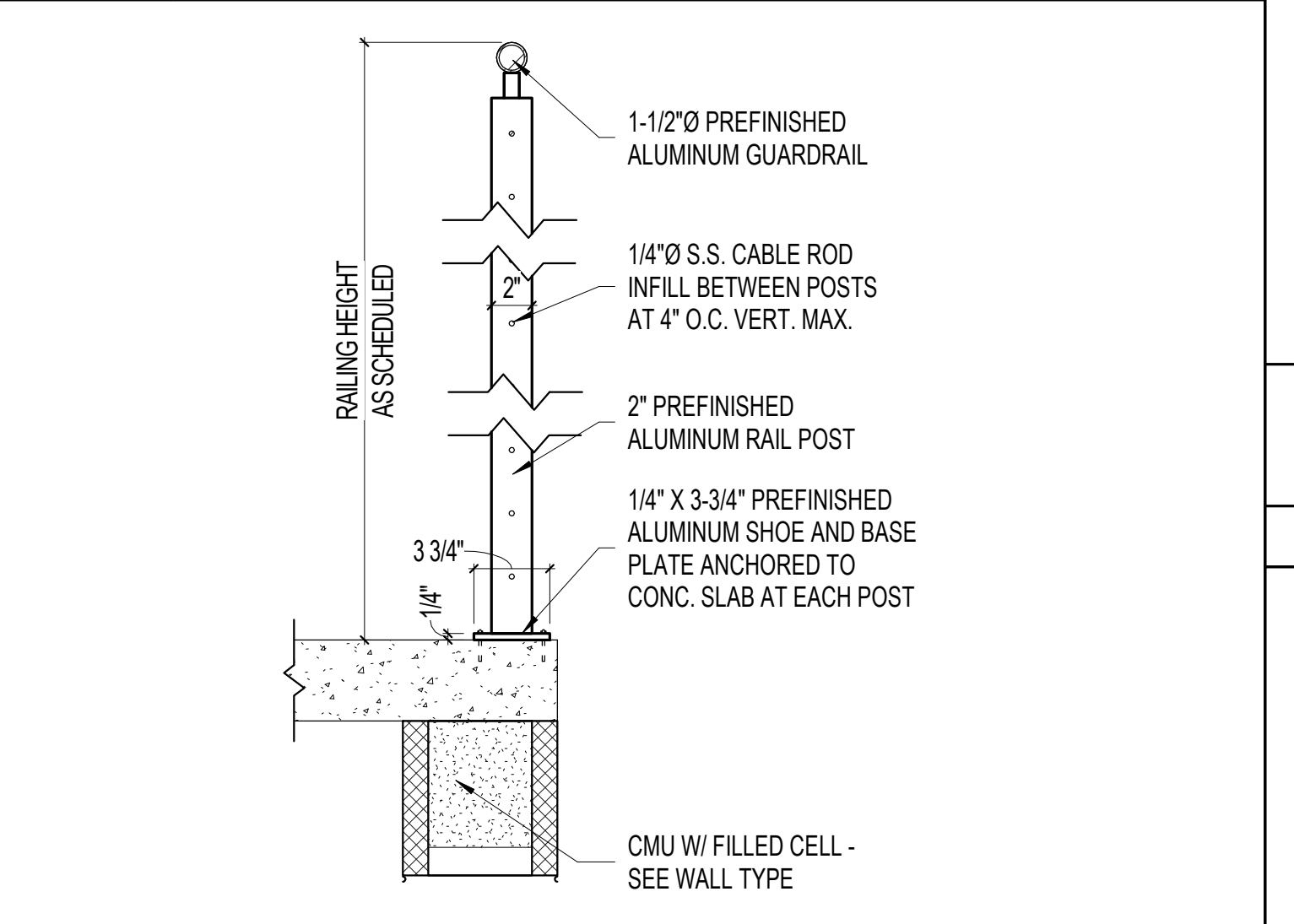
G9 HANDRAIL/GUARDRAIL DETAIL AT LANDING
1" = 1'-0"



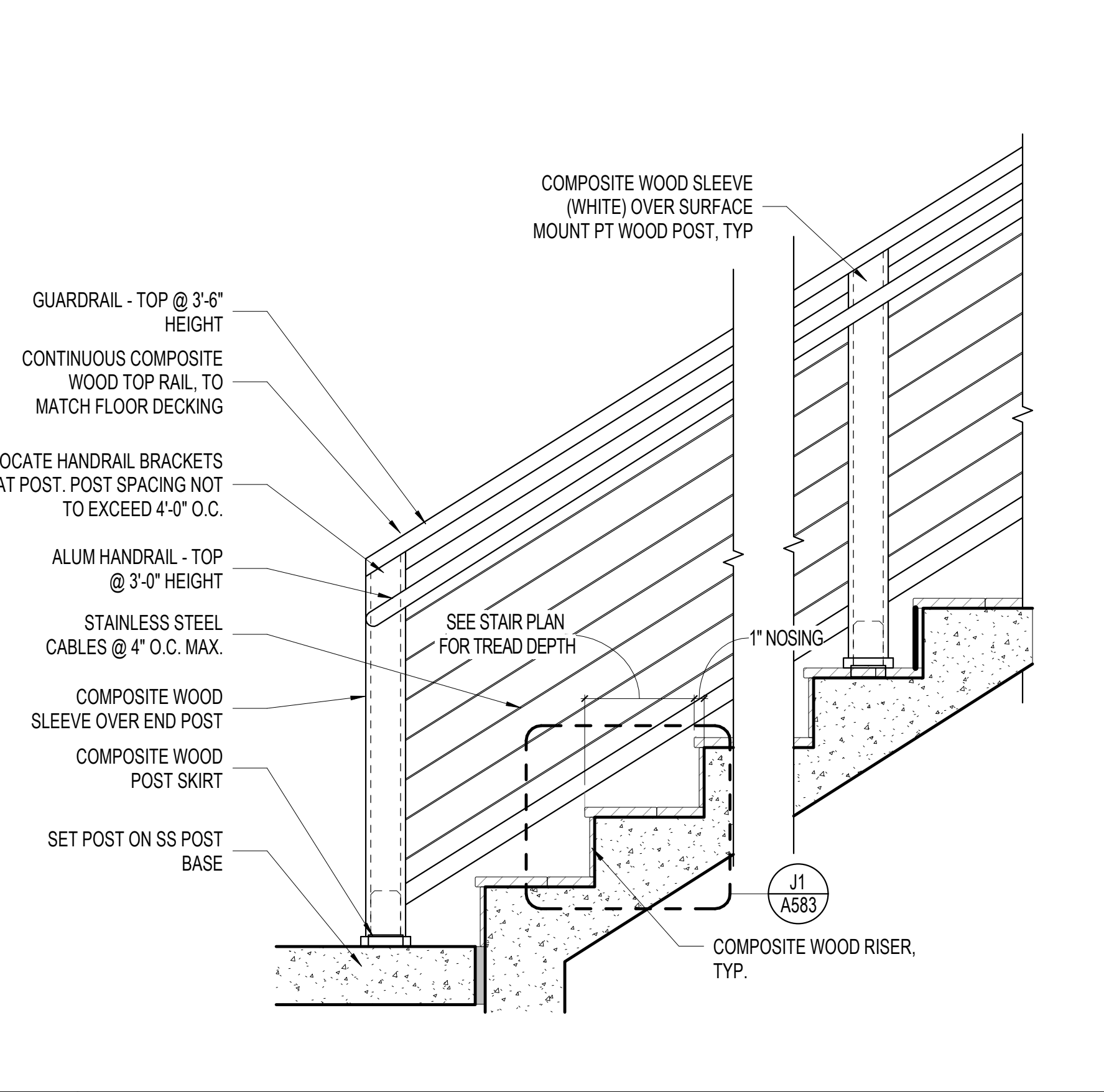
G14 GUARDRAIL DETAIL
1" = 1'-0"



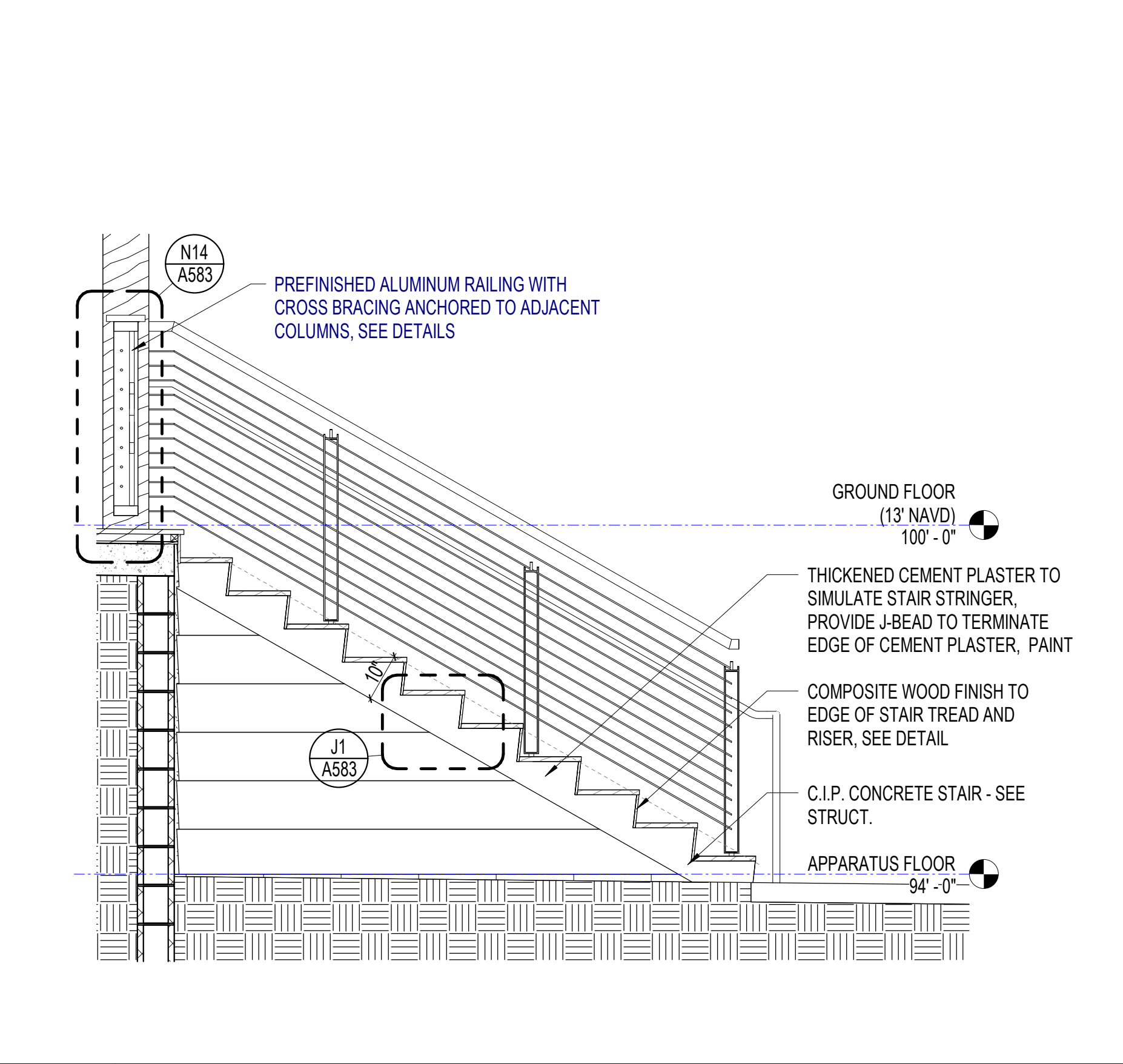
A1 PLAN DETAIL - COMP. WD. OVER CONC. STAIR
1 1/2" = 1'-0"



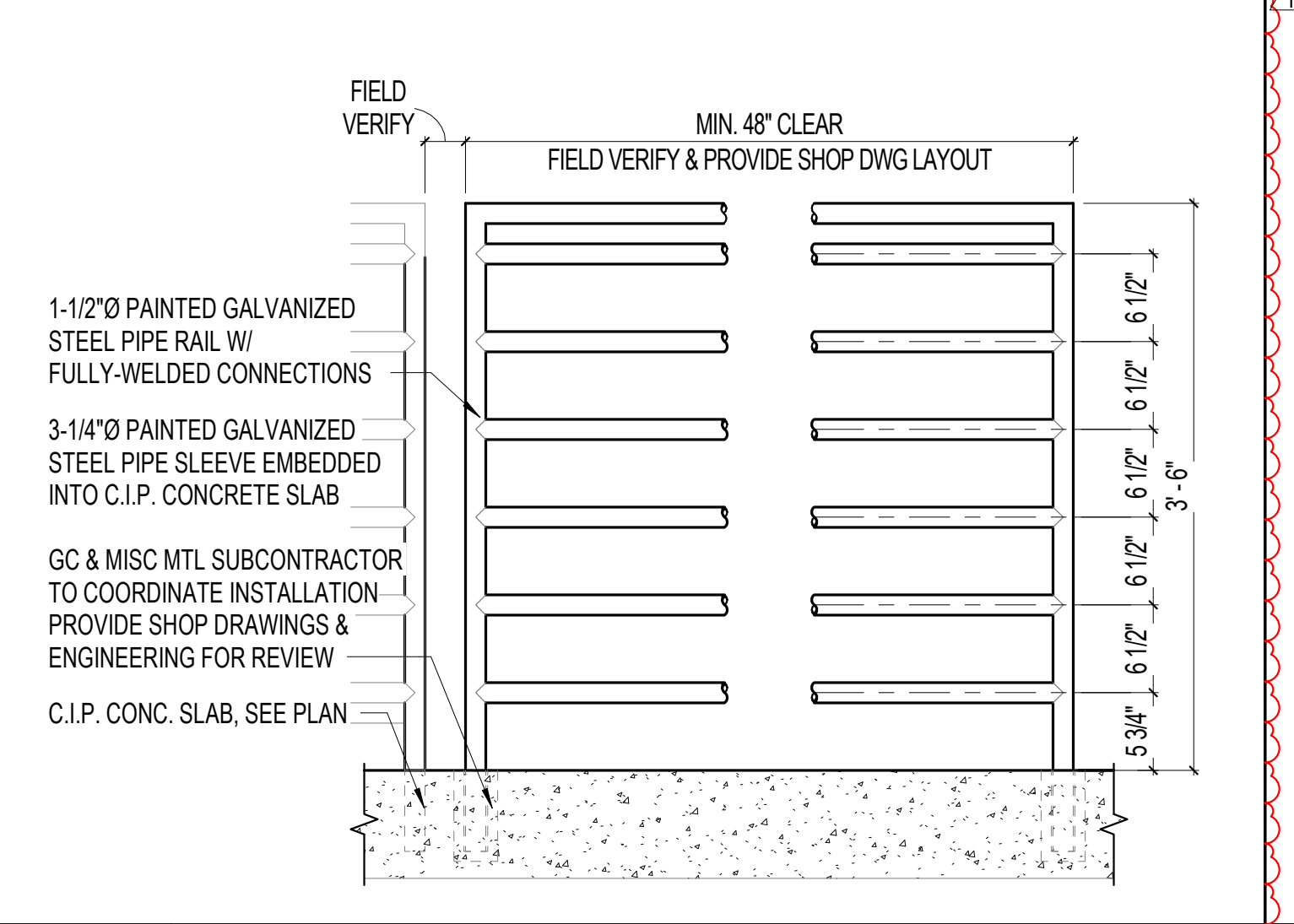
E5 TYP. SURFACE-MOUNTED RAILING DETAIL
1 1/2" = 1'-0"



A9 HANDRAIL/GUARDRAIL DETAIL AT BOTTOM
1" = 1'-0"



A14 TYP. STAIR SIDE ELEVATION
1/2" = 1'-0"



A5 REMOVABLE RAIL DETAIL
1" = 1'-0"

sanibel fire station

100% CD SET
CITY OF SANIBEL, FL

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Context Map - Not To Scale
(aerial imagery from Loopea - captured 09/8/2023)



Project Map - Not To Scale
(aerial imagery from Loopea - captured 08/8/2023)

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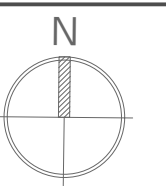
PROPERTY INFORMATION
Project Strap Number: 18-46-22-T1-00002.0030
Folio ID: 10020649
Refer to Engineer Plans for Legal Description

LEIGH A. GEVELINGER - State of Florida Professional
Landscape Architect, License No. LA6667171. This item has
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GEVELINGER, LA on 09/09/2024 using a Digital Signature.
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SANIBEL FIRE STATION

5171 Sanibel-Captiva Road
Sanibel, FL 33957

COVER



Primary Issue Date: 09/11/2023
PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023
04	SANIBEL BUFFER LDC UPDATE	02/16/2024

LEIGH A. GEVELINGER, P.L.A.
FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: C

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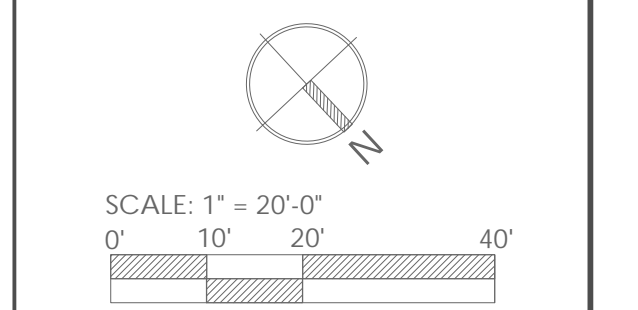
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SANIBEL FIRE STATION

5171 Sanibel-Captiva Road
 Sanibel, FL 33957

CODE REQUIREMENTS PLAN



Primary Issue Date: 09/11/2023
 PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023
04	SANIBEL BUFFER LDC UPDATE	02/16/2024

LEIGH A. GEVELINGER, P.L.A.
 FL LICENSE NO. LA 6667171

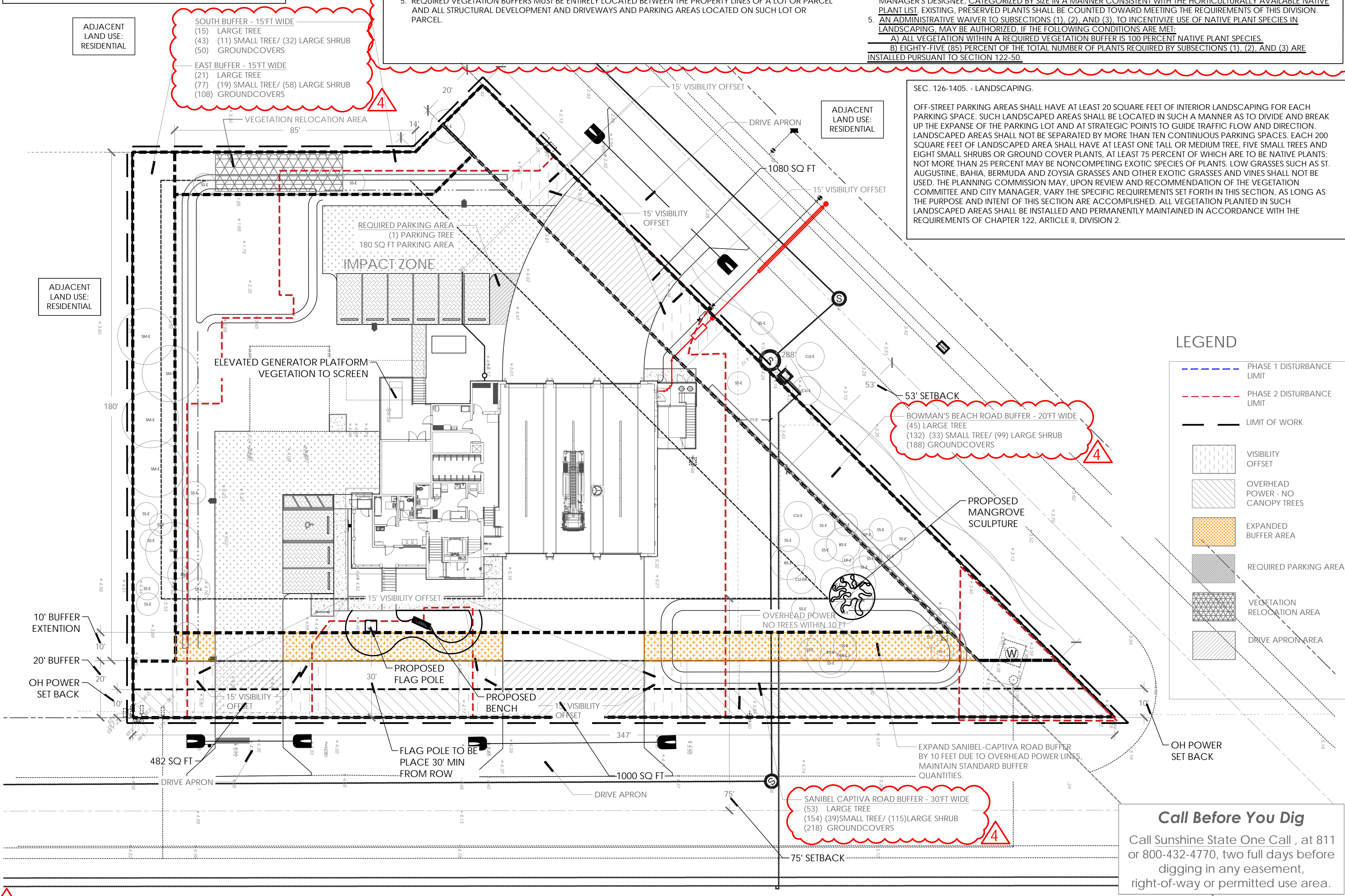
PROJECT #: 23-049

SHEET: LP-1

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SANIBEL-CAPTIVA ROAD					
20 FT. WIDTH BUFFER x 347 LF = 6940 SF IF 100% PLANTABLE (6940 SF TOTAL BUFFER) - 1482 SF (OF PARKING/WALK AREA) = 5458 SF OF PLANTABLE BUFFER AREA					
PER SEC. 122-48 & 122-49					
LARGE/MEDIUM TREE (1 : 75 SF)					
5458 SF / 75 = 73 (73 x .85 ALL NATIVE) = 62 Large/medium native Tree required					
Category	Spacing	Required	Existing	PROPOSED	
Large / Medium Tree	1/75 SF	62	9	53	
SMALL TREE/ SHRUB (1 : 30 SF)					
5458 SF ÷ 30 = 182 (182 x .85 ALL NATIVE) = 155 Small Tree/shrub native Required					
Category	Spacing	Required	Existing	PROPOSED	
Small Tree / Shrub	1/30 SF	155*	1	154	
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)					
5458 SF ÷ 25 = 218 Small Shrub/groundcover Required					
Category	Spacing	Required	Existing	PROPOSED	
Small Shrub/Groundcover	1/25 SF	218	0	218	
*154 x .25 = 39 SMALL TREE REQUIRED					
BOWMAN'S BEACH RD					
20 FT. WIDTH BUFFER x 288 LF = 5760 SF IF 100% PLANTABLE (5760 SF TOTAL BUFFER) - 1080 SF (OF PARKING/WALK AREA) = 4680 SF OF PLANTABLE BUFFER AREA					
PER SEC. 122-48 & 122-49					
LARGE/MEDIUM TREE (1 : 75 SF)					
4680 SF / 75 = 63 (63 x .85 ALL NATIVE) = 54 Large/medium native Tree required					
Category	Spacing	Required	Existing	PROPOSED	
Large / Medium Tree	1/75 SF	54	9	45	
SMALL TREE/ SHRUB (1 : 30 SF)					
4680 SF ÷ 30 = 156 (156 x .85 ALL NATIVE) = 133 Small Tree/shrub native Required					
Category	Spacing	Required	Existing	PROPOSED	
Small Tree / Shrub	1/30 SF	133*	1	132	
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)					
4680 SF ÷ 25 = 188 Small Shrub/groundcover Required					
Category	Spacing	Required	Existing	PROPOSED	
Small Shrub/Groundcover	1/25 SF	188	0	188	
*133 x .25 = 33 SMALL TREE REQUIRED					
EAST BUFFER					
15 FT. WIDTH BUFFER x 180 LF = 2700 SF					
PER SEC. 122-48 & 122-49					
LARGE/MEDIUM TREE (1 : 75 SF)					
2700 SF / 75 = 36 (36 x .85 ALL NATIVE) = 31 Large/medium Native Tree required					
Category	Spacing	Required	Existing	PROPOSED	
Large / Medium Tree	1/75 SF	31	10	21	
SMALL TREE/ SHRUB (1 : 30 SF)					
2700 SF ÷ 30 = 90 (90 x .85 ALL NATIVE) = 77 Small Tree/shrub native Required					
Category	Spacing	Required	Existing	PROPOSED	
Small Tree / Shrub	1/30 SF	77*	0	77	
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)					
2700 SF ÷ 25 = 108 Small Shrub/groundcover Required					
Category	Spacing	Required	Existing	PROPOSED	
Small Shrub/Groundcover	1/25 SF	108	0	108	
*77 x .25 = 19 SMALL TREE REQUIRED					
SOUTH BUFFER					
15 FT. WIDTH BUFFER x 99 LF = 1485 SF					
PER SEC. 122-48 & 122-49					
LARGE/MEDIUM TREE (1 : 75 SF)					
1485 SF / 75 = 20 (20 x .85 ALL NATIVE) = 17 Large/medium native Tree required					
Category	Spacing	Required	Existing	PROPOSED	
Large / Medium Tree	1/75 SF	17	2	15	
SMALL TREE/ SHRUB (1 : 30 SF)					
1485 SF ÷ 30 = 50 (50 x .85 ALL NATIVE) = 43 Small Tree/shrub Required					
Category	Spacing	Required	Existing	PROPOSED	
Small Tree / Shrub	1/30 SF	43	0	43	
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)					
1485 SF ÷ 25 = 60 Small Shrub/groundcover Required					
Category	Spacing	Required	Existing	PROPOSED	
Small Shrub/Groundcover	1/25 SF	60	0	60	
*43 x .25 = 11 SMALL TREE REQUIRED					

INTERIOR PARKING				
9 PARKING x 20 SF = MIN 180 SF INT LAND PER SEC. 126-1405				
LARGE/MEDIUM TREE (1 : 200 SF)				
180 SF / 200 X 1 = 1 Large/medium Tree required				
Category	Required	Existing	PROPOSED	
Large / Medium Tree	1	0	1	
SMALL TREE/ SHRUB (1 : 30 SF)				
180 SF / 200 X 5 = 4.5 small Tree/medium shrubs required				
Category	Required	Existing	PROPOSED	
Small Tree / Shrub	5	0	5	
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)				
180 SF / 200 X 8 = 7.2 groundcovers required				
Category	Required	Existing	PROPOSED	
Small Shrub/Groundcover	8	0	8	



BUFFER VEGETATION NOTES:

SEC. 122-47 - VEGETATION BUFFERS REQUIRED.
 IN ADDITION TO THE INTERIOR LANDSCAPING REQUIRED FOR PARKING AREAS BY SECTION 126-1405, ALL COMMERCIAL AND INSTITUTIONAL DEVELOPMENT AND USES (INCLUDING SPECIAL USES NOT EXEMPTED FROM COMPLIANCE WITH THIS DIVISION) SHALL INCLUDE STRIPS OF VEGETATION (CALLED "VEGETATION BUFFERS" IN THIS DIVISION), IN COMPLIANCE WITH THE STANDARDS OF THIS DIVISION FOR THE LOCATION, PLANTING, AND MAINTENANCE OF SUCH VEGETATION BUFFERS, AS A MEANS OF PROVIDING A BARRIER TO BOTH LIGHT AND SOUND CREATED BY SUCH USES AND FOR THE PURPOSE OF MAINTAINING A RURAL, NATURAL ENVIRONMENT ALONG CITY STREETS.

SEC. 122-48 - LOCATION AND SIZE OF REQUIRED VEGETATION BUFFERS.
 VEGETATION BUFFERS REQUIRED BY THIS DIVISION SHALL BE LOCATED AND SIZED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

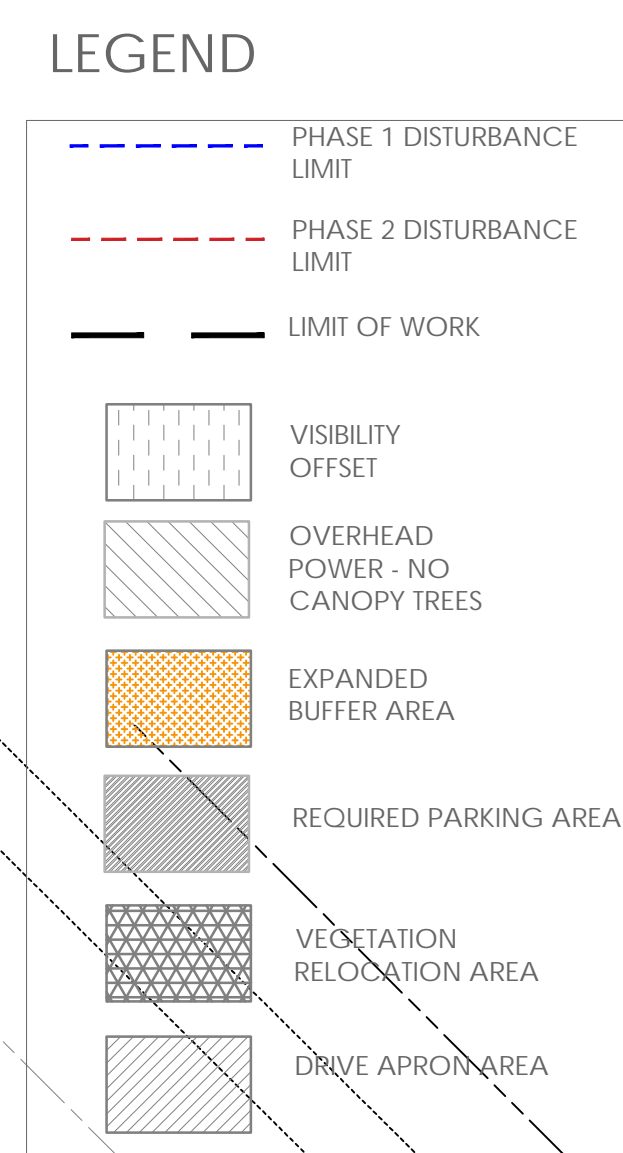
1. A VEGETATION BUFFER AT LEAST 20 FEET IN DEPTH SHALL BE LOCATED ADJACENT TO THE RIGHT-OF-WAY OF ANY STREET.
2. VEGETATION BUFFERS AT LEAST 15 FEET IN DEPTH SHALL BE LOCATED ALONG ALL SIDE LOT LINES.
3. VEGETATION BUFFERS AT LEAST 15 FEET IN DEPTH SHALL BE LOCATED ALONG ALL REAR LOT LINES, OR ALONG THE BOUNDARY OF A COMMERCIAL DISTRICT IF SUCH BOUNDARY IS LOCATED ON THE PROPERTY CLOSER TO THE ABUTTING STREET THAN THE REAR LOT LINE.
4. THE MINIMUM DEPTHS FOR VEGETATION BUFFERS REQUIRED BY SUBSECTIONS (1) THROUGH (4) OF THIS SECTION MAY BE INCREASED BY THE CITY MANAGER OR HIS/HER DESIGNEE WHEN NECESSARY TO ACCOMMODATE DRAINAGE EASEMENTS AND FACILITIES, OVERHEAD POWER LINES, AND OTHER NATURAL OR MANMADE FEATURES LOCATED ALONG THE BOUNDARIES OF THE PARCEL IN QUESTION WHICH CONSTRAIN THE ESTABLISHMENT OF REQUIRED VEGETATION BUFFERS.
5. REQUIRED VEGETATION BUFFERS MUST BE ENTIRELY LOCATED BETWEEN THE PROPERTY LINES OF A LOT OR PARCEL AND ALL STRUCTURAL DEVELOPMENT AND DRIVEWAYS AND PARKING AREAS LOCATED ON SUCH LOT OR PARCEL.

BUFFER VEGETATION NOTES CONT:

SEC. 122-49 - TYPES, VARIETIES AND NUMBERS OF PLANTS REQUIRED.
 EACH VEGETATION BUFFER REQUIRED BY THIS DIVISION SHALL BE INSTALLED WITH PLANTS MEETING THE FOLLOWING REQUIREMENTS:

1. EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE LARGE OR MEDIUM TREE FOR EACH 75 SQUARE FEET OF THE REQUIRED BUFFER AREA, EXCLUDING AREAS WITHIN EXISTING OR PROPOSED INGRESS-EGRESS DRIVEWAYS OR INTER- AND INTRA-CONNECTIVITY PATHWAYS, WITH A MINIMUM OF SIX DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED.
2. EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE SMALL TREE OR MEDIUM SHRUB FOR EACH 30 SQUARE FEET OF THE REQUIRED BUFFER AREAS EXCLUDING AREAS WITHIN EXISTING OR PROPOSED INGRESS-EGRESS DRIVEWAYS OR INTER- AND INTRA-CONNECTIVITY PATHWAYS, (AT LEAST 25 PERCENT OF WHICH MUST BE SMALL TREES), WITH A MINIMUM OF FIVE DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED.
3. EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE LOW GROWING (SMALL) SHRUB OR GROUNDCOVER PLANT FOR EACH 25 SQUARE FEET OF THE REQUIRED BUFFER AREA, EXCLUDING AREAS WITHIN EXISTING OR PROPOSED INGRESS-EGRESS DRIVEWAYS OR INTER- AND INTRA-CONNECTIVITY PATHWAYS, WITH A MINIMUM OF THREE DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED. NO ST. AUGUSTINE, BERMUDA, ZOYSIA, BAHIA OR SOD-TYPE GRASSES OR VINES SHALL BE USED TO SATISFY THIS REQUIREMENT.
4. A MINIMUM OF 75 PERCENT OF THE PLANTS REQUIRED BY EACH OF THE SUBSECTIONS (1) THROUGH (3) OF THIS SECTION SHALL BE NATIVE PLANTS. THE REMAINDER SHALL BE EITHER NATIVE PLANTS OR NONCOMPETING EXOTIC SPECIES OF PLANT. INVASIVE EXOTIC VEGETATION SHALL NOT BE PERMITTED WITHIN THE REQUIRED BUFFERS. FOR THE PURPOSES OF THIS CALCULATION, COCONUT PALMS IS DESIGNATED AS A NON-COMPETING EXOTIC SPECIES. THE CATEGORY FOR NATIVE PLANTS (AS LARGE OR MEDIUM TREES, SMALL TREES OR MEDIUM SHRUBS, OR LOW GROWING (SMALL) SHRUBS OR GROUNDCOVER PLANTS) IS SPECIFIED ON THE CITY'S HORTICULTURALLY AVAILABLE NATIVE PLANTS LIST. THE APPLICABLE CATEGORY FOR NONCOMPETING EXOTIC SPECIES OF PLANT SHALL BE AS DETERMINED BY THE CITY MANAGER, OR THE MANAGER'S DESIGNEE, CATEGORIZED BY SIZE IN A MANNER CONSISTENT WITH THE HORTICULTURALLY AVAILABLE NATIVE PLANT LIST. EXISTING, PRESERVED PLANTS SHALL BE COUNTED TOWARD MEETING THE REQUIREMENTS OF THIS DIVISION.
5. AN ADMINISTRATIVE WAIVER TO SUBSECTIONS (1), (2), AND (3), TO INCENTIVIZE USE OF NATIVE PLANT SPECIES IN LANDSCAPING, MAY BE AUTHORIZED, IF THE FOLLOWING CONDITIONS ARE MET:
 - A) ALL VEGETATION WITHIN A REQUIRED VEGETATION BUFFER IS 100 PERCENT NATIVE PLANT SPECIES.
 - B) EIGHTY-FIVE (85) PERCENT OF THE TOTAL NUMBER OF PLANTS REQUIRED BY SUBSECTIONS (1), (2), AND (3) ARE INSTALLED PURSUANT TO SECTION 122-50.

SEC. 126-1405 - LANDSCAPING.
 OFF-STREET PARKING AREAS SHALL HAVE AT LEAST 20 SQUARE FEET OF INTERIOR LANDSCAPING FOR EACH PARKING SPACE. SUCH LANDSCAPED AREAS SHALL BE LOCATED IN SUCH A MANNER AS TO DIVIDE AND BREAK UP THE EXPANSE OF THE PARKING LOT AND AT STRATEGIC POINTS TO GUIDE TRAFFIC FLOW AND DIRECTION. LANDSCAPED AREAS SHALL NOT BE SEPARATED BY MORE THAN TEN CONTINUOUS PARKING SPACES. EACH 200 SQUARE FEET OF LANDSCAPED AREA SHALL HAVE AT LEAST ONE TALL OR MEDIUM TREE, FIVE SMALL TREES AND EIGHT SMALL SHRUBS OR GROUND COVER PLANTS, AT LEAST 75 PERCENT OF WHICH ARE TO BE NATIVE PLANTS. NOT MORE THAN 25 PERCENT MAY BE NONCOMPETING EXOTIC SPECIES OF PLANTS. LOW GRASSES SUCH AS ST. AUGUSTINE, BAHIA, BERMUDA AND ZOYSIA GRASSES AND OTHER EXOTIC GRASSES AND VINES SHALL NOT BE USED. THE PLANNING COMMISSION MAY, UPON REVIEW AND RECOMMENDATION OF THE VEGETATION COMMITTEE AND CITY MANAGER, VARY THE SPECIFIC REQUIREMENTS SET FORTH IN THIS SECTION, AS LONG AS THE PURPOSE AND INTENT OF THIS SECTION ARE ACCOMPLISHED. ALL VEGETATION PLANTED IN SUCH LANDSCAPED AREAS SHALL BE INSTALLED AND PERMANENTLY MAINTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 122, ARTICLE II, DIVISION 2.



Call Before You Dig
 Call Sunshine State One Call, at 811 or 800-432-4770, two full days before digging in any easement, right-of-way or permitted use area.

IMPORTANT: UNDERGROUND UTILITIES
 ALL VEGETATION TO BE INSTALLED SHALL AVOID ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR AND LANDSCAPE CONTRACTOR RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES INCLUDING STORMWATER, CABLE AND SEWER UTILITIES.



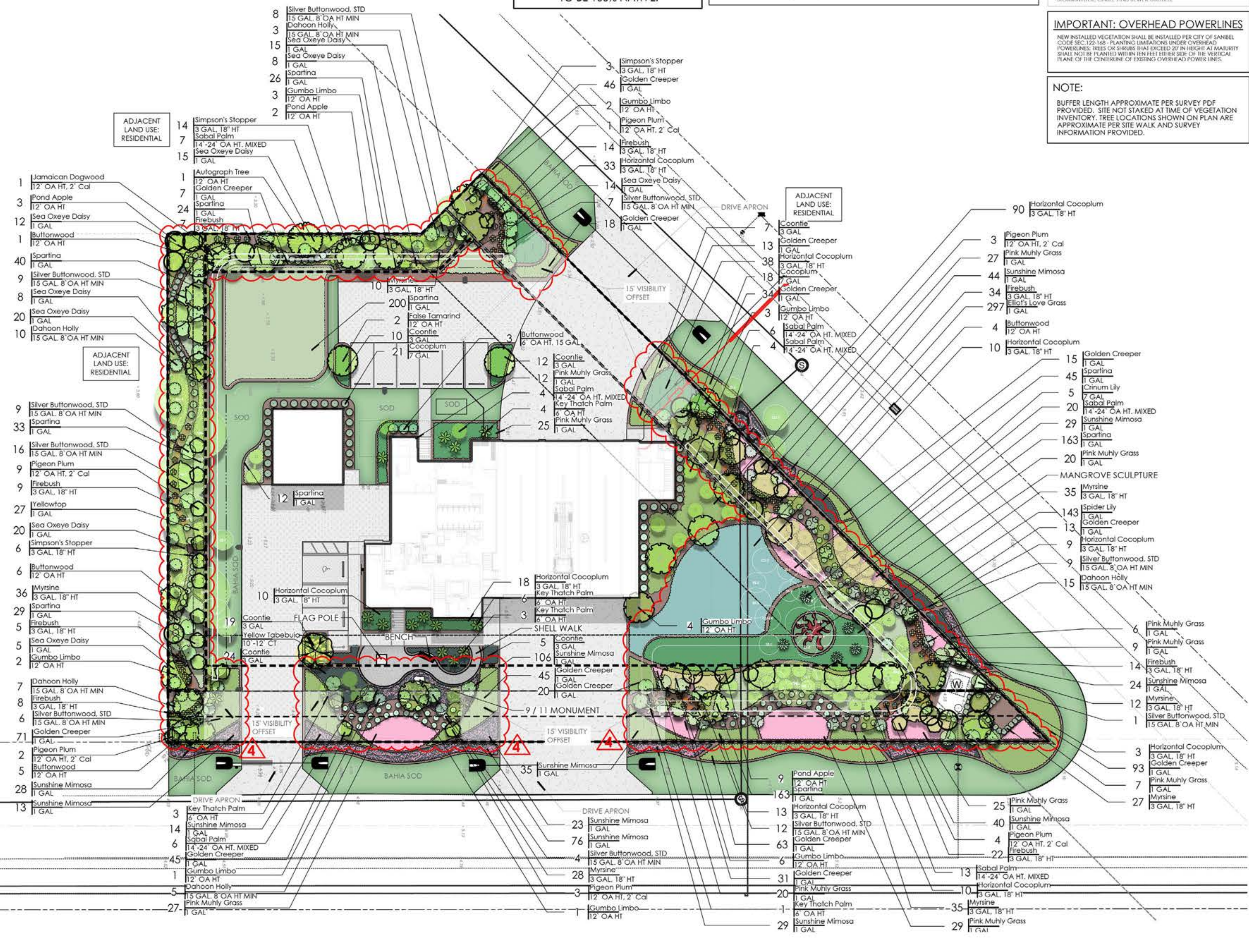
MITIGATION
 NATIVE VEGETATION IMPACTED AS PART OF BUILDING DEMOLITION TO BE MITIGATED 1:1 AS PART OF PROPOSED NATIVE PLANTINGS - SEE PLANT SCHEDULE FOR MITIGATION PLANTING SPECIES & SIZES
 REMOVED NATIVE PLANTS TO BE MITIGATED 1:1

ALL NATIVES REMOVED AROUND BUILDING TO BE MITIGATED 1:1 IN WEST BUFFER.
 FINAL VEGETATION COUNTS TO BE DETERMINED FOLLOWING DEMO. FINAL PLAN SHALL BE MINIMUM 75% NATIVE/25% NONINVASIVE EXOTIC. ALL PROPOSED PLANTINGS TO BE 100% NATIVE.

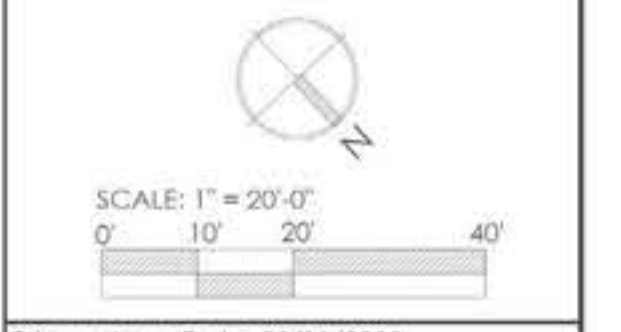
IMPORTANT:
 1. REFER TO ENGINEERING PLANS FOR SITE AND DRAINAGE & GRADING INFORMATION.
 2. PLANTING WITH THE DETENTION AREA SHALL BE APPROPRIATE FOR PERIODS OF INUNDATION.
 3. ALL AREAS NOT SHOWN AS PLANTING SHALL BE STABILIZED PER ENGINEER PLANS.
IMPORTANT: VEGETATION
 1. FINAL LANDSCAPE DESIGN, RELOCATIONS AND PLANT COUNTS PENDING REVIEW WITH NATURAL RESOURCES DEPARTMENT.
 2. TOTAL SITE SHALL BE 75% OR GREATER NATIVE VEGETATION THROUGH ALL THREE PLANT CATEGORIES. MAXIMUM OF 25% NON-NATIVE, NON-INVASIVE SPECIES MAY BE UTILIZED.
 3. SEE LANDSCAPE SCHEDULE FOR PLANT QUANTITIES & SIZES.
 4. SEE LP-7 FOR REQUIRED VEGETATION NOTES

Call Before You Dig
 Call Sunshine State One Call . at 811 or 800-432-4770, two full days before digging in any easement, right-of-way or permitted use area.
IMPORTANT: UNDERGROUND UTILITIES
 ALL VEGETATION TO BE INSTALLED SHALL AVOID ALL EXISTING AND PROPOSED UTILITIES, CONTRACTOR AND LANDSCAPE CONTRACTOR RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES INCLUDING STEAMWATER, CABLE AND SINKER UTILITIES.
IMPORTANT: OVERHEAD POWERLINES
 NEW INSTALLED VEGETATION SHALL BE INSTALLED PER CITY OF SANIBEL CODE SEC.122-148 - PLANTING LIMITATIONS UNDER OVERHEAD POWERLINES; TREES OR SHRUBS THAT EXCEED 20' IN HEIGHT AT MATURITY SHALL NOT BE PLANTED WITHIN 10' FEET HORIZ. OF THE VERTICAL PLANE OF THE CENTERLINE OF EXISTING OVERHEAD POWER LINES.
NOTE:
 BUFFER LENGTH APPROXIMATE PER SURVEY PDF PROVIDED. SITE NOT STAKED AT TIME OF VEGETATION INVENTORY. TREE LOCATIONS SHOWN ON PLAN ARE APPROXIMATE PER SITE WALK AND SURVEY INFORMATION PROVIDED.

COASTAL VISTA DESIGN
 2410 PALM RIDGE ROAD
 SANIBEL ISLAND, FL 33957
 TEL: 239-558-4610
 INFO@COASTALVISTADESIGN.COM



SANIBEL FIRE STATION
 5171 Sanibel-Captiva Road
 Sanibel, FL 33957
PROPOSED PLANTING PLAN



Primary Issue Date: 09/11/2023
 PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023
04	SANIBEL BUFFER LDC UPDATE	02/16/2024

LEIGH A. GEVELINGER, P.L.A.
 FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: LP-2

FOR PERMITTING & FOR BID ONLY. NOT FOR CONSTRUCTION.

MITIGATION
 NATIVE VEGETATION IMPACTED AS PART OF BUILDING DEMOLITION TO BE MITIGATED 1:1 AS PART OF PROPOSED NATIVE PLANTINGS - SEE PLANT SCHEDULE FOR MITIGATION PLANTING SPECIES & SIZES
 REMOVED NATIVE PLANTS TO BE MITIGATED 1:1

ALL NATIVES REMOVED AROUND BUILDING TO BE MITIGATED 1:1 IN WEST BUFFER.
 FINAL VEGETATION COUNTS TO BE DETERMINED FOLLOWING DEMO. FINAL PLAN SHALL BE MINIMUM 75% NATIVE/25% NONINVASIVE EXOTIC. ALL PROPOSED PLANTINGS TO BE 100% NATIVE.

IMPORTANT: IRRIGATION
 PROPOSED VEGETATION IS RECOMMENDED TO BE INSTALLED DURING SUMMER RAINY SEASON - IF POSSIBLE. PROPOSED VEGETATION SHALL BE WATERED IN FOR A MINIMUM OF 60 DAYS OR UNTIL ESTABLISHED. A TEMPORARY, ABOVE GROUND IRRIGATION SYSTEM MAY BE REQUIRED PENDING TIME OF YEAR OF LANDSCAPE INSTALLATION. OWNER/CLIENT TO APPROVE. A PERMANENT IRRIGATION SYSTEM IS NOT INCLUDED AS PART OF THIS PLAN SET.

IMPORTANT:
 1. REFER TO ENGINEERING PLANS FOR SITE AND DRAINAGE & GRADING INFORMATION.
 2. PLANTING WITH THE DETENTION AREA SHALL BE APPROPRIATE FOR PERIODS OF INUNDATION.
 3. ALL AREAS NOT SHOWN AS PLANTING SHALL BE STABILIZED PER ENGINEER PLANS.

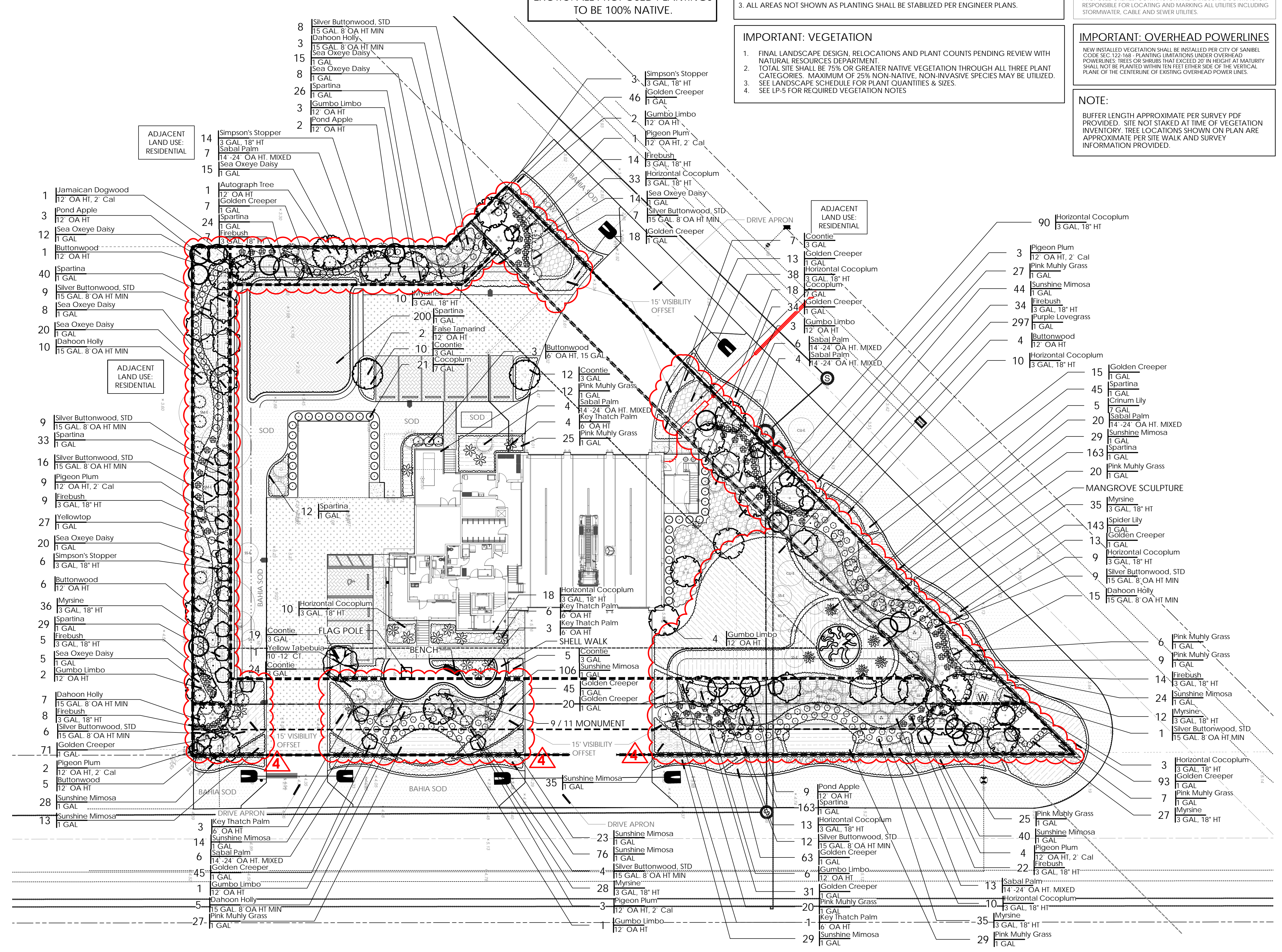
IMPORTANT: VEGETATION
 1. FINAL LANDSCAPE DESIGN, RELOCATIONS AND PLANT COUNTS PENDING REVIEW WITH NATURAL RESOURCES DEPARTMENT.
 2. TOTAL SITE SHALL BE 75% OR GREATER NATIVE VEGETATION THROUGH ALL THREE PLANT CATEGORIES. MAXIMUM OF 25% NON-NATIVE, NON-INVASIVE SPECIES MAY BE UTILIZED.
 3. SEE LANDSCAPE SCHEDULE FOR PLANT QUANTITIES & SIZES.
 4. SEE LP-5 FOR REQUIRED VEGETATION NOTES

Call Before You Dig
 Call Sunshine State One Call , at 811 or 800-432-4770, two full days before digging in any easement, right-of-way or permitted use area.

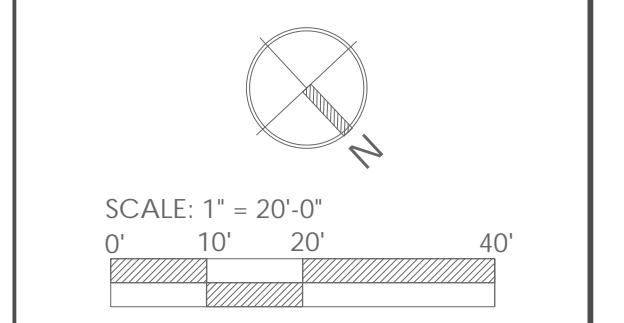
IMPORTANT: UNDERGROUND UTILITIES
 ALL VEGETATION TO BE INSTALLED SHALL AVOID ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR AND LANDSCAPE CONTRACTOR RESPONSIBLE FOR LOCATING AND MARKING ALL UTILITIES INCLUDING STORMWATER, CABLE AND SEWER UTILITIES.

IMPORTANT: OVERHEAD POWERLINES
 NEW INSTALLED VEGETATION SHALL BE INSTALLED PER CITY OF SANIBEL CODE SEC. 122-168 - PLANTING LIMITATIONS UNDER OVERHEAD POWERLINES: TREES OR SHRUBS THAT EXCEED 20' IN HEIGHT AT MATURITY SHALL NOT BE PLANTED WITHIN TEN FEET EITHER SIDE OF THE VERTICAL PLANE OF THE CENTERLINE OF EXISTING OVERHEAD POWERLINES.

NOTE:
 BUFFER LENGTH APPROXIMATE PER SURVEY PDF PROVIDED. SITE NOT STAKED AT TIME OF VEGETATION INVENTORY. TREE LOCATIONS SHOWN ON PLAN ARE APPROXIMATE PER SITE WALK AND SURVEY INFORMATION PROVIDED.



SANIBEL FIRE STATION
 5171 Sanibel-Captiva Road
 Sanibel, FL 33957
PROPOSED PLANTING PLAN



Primary Issue Date: 09/11/2023
 PLAN REVISIONS:

Version	Notes	Date
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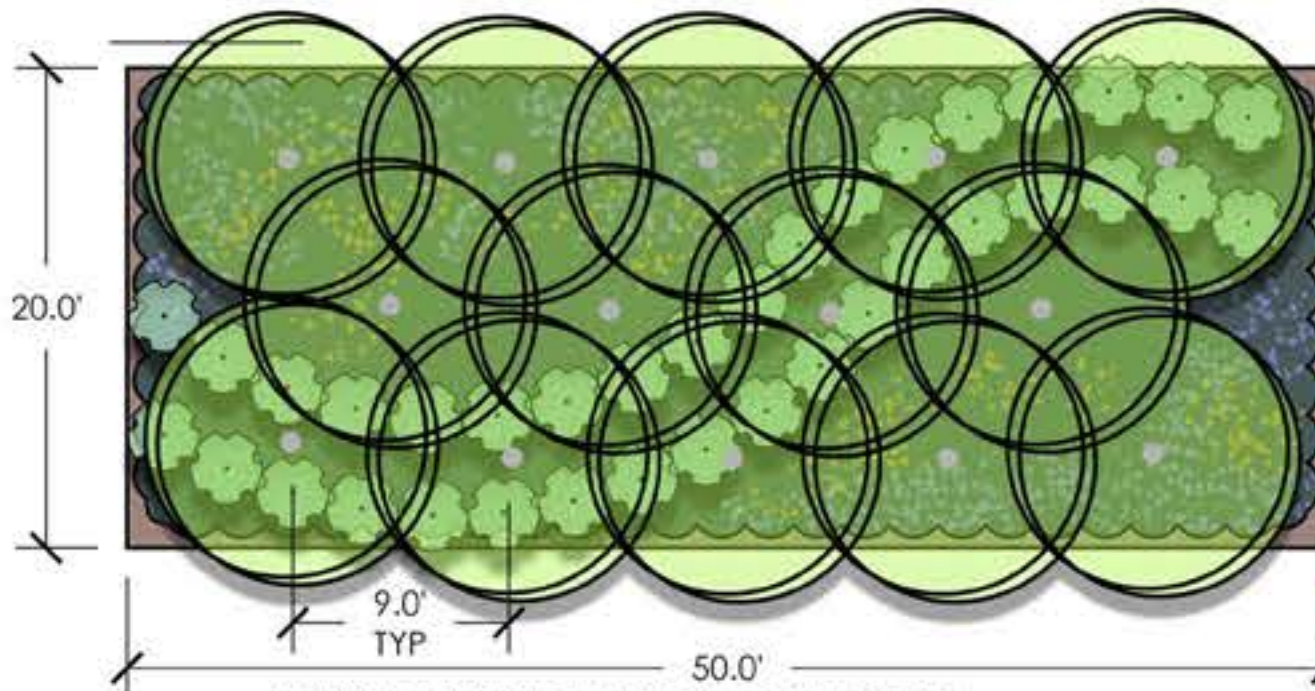
LEIGH A. GEVELINGER, P.L.A.
 FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: LP-2A

FOR PERMITTING & FOR BID ONLY. NOT FOR CONSTRUCTION.

23-049_SANIBEL FIRE STATION.dwg



**BUFFER DENSITY CALCULATIONS
CANOPY TREE 1/75 SF**
20 FT WIDTH BUFFER x 50 LF = 1000 SF IF 100%
PER SEC. 122-48 & 122-49

LARGE/MEDIUM TREE (1 : 75 SF)
1000 SF / 75 = 13.3 (13.3x .85 ALL NATIVE) = 11.3 Large/medium Tree required
SMALL TREE/ SHRUB (1 : 30 SF)
1000 SF / 30 = 33.3 (33.3 x .85 ALL NATIVE) = 28.3 Small Tree/shrub required
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
1000 SF / 25 = 40 (40 x .85 ALL NATIVE) = 34 Small Shrub/groundcover required

PLANT MATERIAL SELECTION SAMPLE:

- Large / Medium Tree Category - minimum of 6 Sanibel native species**
Sample trees: Cabbage Palm (Sabal palmetto), Green Buttonwood (Conocarpus erectus), Gumbo Limbo (Bursera simaruba), Pitch Apple (Clusia rosea), LIVE OAK, (QUERCUS VIRGINIANA) **MIN SIZE 10'-12' HT, 2" CAL**
- Small Tree/Large Shrub - minimum of 6 Sanibel native species**
Sample shrubs: Key Thatch Palm, (Thrinax parviflora), Silver Buttonwood (Conocarpus erectus 'Silver'), Dahan Holly (Ilex cassine), Bahama Cassia (Senna mexicana var. chapmanii), Coco Plum (Chrysobalanus icaco), Simpson Stopper / Twinberry (Myrcianthes fragrans), Myrsine (Rapanea punctata) **75% MIN SIZE 7 GAL, 25% MIN SIZE 6' HT**
- Small Shrub/Groundcover - minimum of 3 Sanibel Native species**
Sample Groundcovers: Short Leaf Wild Coffee (Psychotria ligustrifolia), Florida Coontie (Zamia pumila), Spider Lily (Hymenocallis latifolia), Muhly Grass (Muhlenbergia capillaris), Golden Creeper (Erondea litoralis), American Beautyberry (Callicarpa americana), Peperomia (Peperomia alata), Quailberry (Crossopetalum ilicifolium), WILD COFFEE (PSYCHOTRIA NERVOSA), SPARTINA (SPARTINA BAKERI) **MIN SIZE 1 GAL**

1A BUFFER PLANTING PLAN 20' X 50' TYPICAL LAYOUT

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



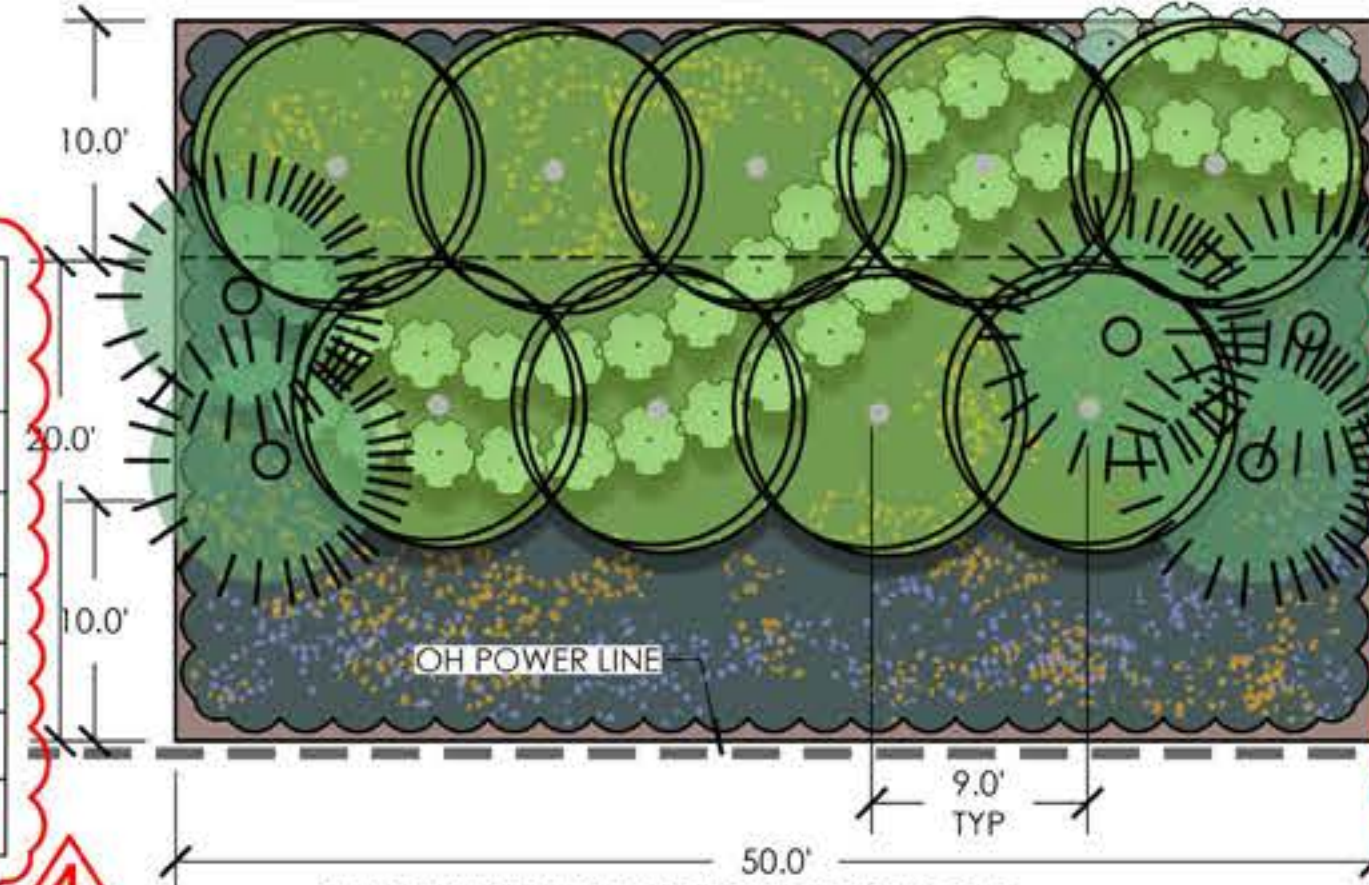
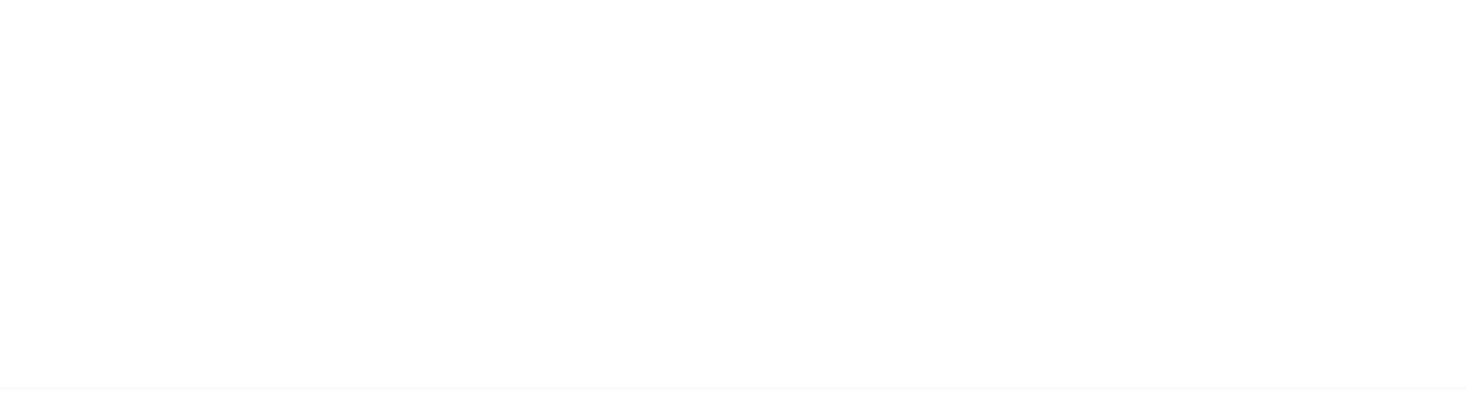
1B BUFFER PLANTING PLAN 20' X 50', AT TIME OF PLANTING

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



1C BUFFER PLANTING PLAN 20' X 50', AT 2-3 YEARS

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



**EXPANDED SANIBEL-CAPTIVA ROAD BUFFER
(MAINTAIN STANDARD 20' BUFFER CALCULATIONS QUANTITIES)**
20 FT WIDTH BUFFER x 50 LF = 1000 SF IF 100%
PER SEC. 122-48 & 122-49

LARGE/MEDIUM TREE (1 : 75 SF)
1000 SF / 75 = 13.3 (13.3x .85 ALL NATIVE) = 11.3 Large/medium Tree required
SMALL TREE/ SHRUB (1 : 30 SF)
1000 SF / 30 = 33.3 (33.3 x .85 ALL NATIVE) = 28.3 Small Tree/shrub required
SMALL SHRUB/GROUNDCOVER (1 : 25 SF)
1000 SF / 25 = 40 (40 x .85 ALL NATIVE) = 34 Small Shrub/groundcover required

PLANT MATERIAL SELECTION SAMPLE:

- Large / Medium Tree Category - minimum of 6 Sanibel native species**
Sample trees: Cabbage Palm (Sabal palmetto), Green Buttonwood (Conocarpus erectus), Gumbo Limbo (Bursera simaruba), Pitch Apple (Clusia rosea), LIVE OAK, (QUERCUS VIRGINIANA) **MIN SIZE 10'-12' HT, 2" CAL**
- Small Tree/Large Shrub - minimum of 6 Sanibel native species**
Sample shrubs: Key Thatch Palm, (Thrinax parviflora), Silver Buttonwood (Conocarpus erectus 'Silver'), Dahan Holly (Ilex cassine), Bahama Cassia (Senna mexicana var. chapmanii), Coco Plum (Chrysobalanus icaco), Simpson Stopper / Twinberry (Myrcianthes fragrans), Myrsine (Rapanea punctata) **75% MIN SIZE 7 GAL, 25% MIN SIZE 6' HT**
- Small Shrub/Groundcover - minimum of 3 Sanibel Native species**
Sample Groundcovers: Short Leaf Wild Coffee (Psychotria ligustrifolia), Florida Coontie (Zamia pumila), Spider Lily (Hymenocallis latifolia), Muhly Grass (Muhlenbergia capillaris), Golden Creeper (Erondea litoralis), American Beautyberry (Callicarpa americana), Peperomia (Peperomia alata), Quailberry (Crossopetalum ilicifolium), WILD COFFEE (PSYCHOTRIA NERVOSA), SPARTINA (SPARTINA BAKERI) **MIN SIZE 1 GAL**

2A BUFFER PLANTING PLAN 30' X 50' TYPICAL LAYOUT (OH POWER LINE)

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



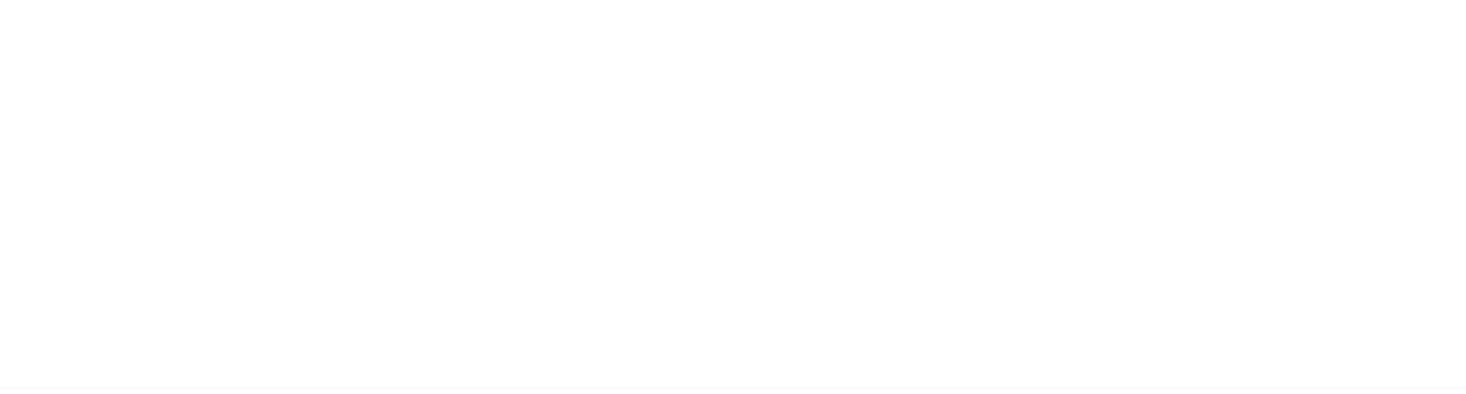
2B BUFFER PLANTING PLAN 30' X 50', AT TIME OF PLANTING

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



2C BUFFER PLANTING PLAN 30' X 50', AT 2-3 YEARS

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



BUFFER VEGETATION NOTES:

- SEC. 122-73. TYPES, VARIETIES, AND NUMBERS OF PLANTS REQUIRED.
- EACH VEGETATION BUFFER REQUIRED BY THIS DIVISION SHALL BE INSTALLED WITH PLANTS MEETING THE FOLLOWING REQUIREMENTS:
- EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE LARGE OR MEDIUM TREE FOR EACH 75 SQUARE FEET OF THE REQUIRED BUFFER AREA, EXCLUDING AREAS WITHIN EXISTING OR PROPOSED INGRESS-EGRESS DRIVEWAYS OR INTER- AND INTRA-CONNECTIVITY PATHWAYS, WITH A MINIMUM OF SIX DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED.
 - EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE SMALL TREE OR MEDIUM SHRUB FOR EACH 30 SQUARE FEET OF THE REQUIRED BUFFER AREA, EXCLUDING AREAS WITHIN EXISTING OR PROPOSED INGRESS-EGRESS DRIVEWAYS OR INTER- AND INTRA-CONNECTIVITY PATHWAYS, (AT LEAST 25 PERCENT OF WHICH MUST BE SMALL TREES) WITH A MINIMUM OF SIX DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED.
 - EACH REQUIRED VEGETATION BUFFER SHALL INCLUDE AT LEAST ONE LOW GROWING (SMALL) SHRUB OR GROUNDCOVER PLANT FOR EACH 25 SQUARE FEET OF THE REQUIRED BUFFER AREA, EXCLUDING AREAS WITHIN EXISTING OR PROPOSED INGRESS-EGRESS DRIVEWAYS OR INTER- AND INTRA-CONNECTIVITY PATHWAYS, WITH A MINIMUM OF THREE DIFFERENT SPECIES OF NATIVE PLANTS INCLUDED. NO ST. AUGUSTINE, BERMUDA, ZOYSIA, BAHIA, OR OTHER SOD-TYPE GRASSES OR VINES SHALL BE USED TO SATISFY THIS REQUIREMENT.
 - A MINIMUM OF 75 PERCENT, BY COUNT, OF THE IN-GROUND TREES AND SHRUBS REQUIRED BY EACH OF THE SUBSECTIONS (1) THROUGH (3) OF THIS SECTION SHALL BE NATIVE SPECIES. THE REMAINDER MAY BE EITHER NATIVE OR NONCOMPETING EXOTIC SPECIES. INVASIVE EXOTIC VEGETATION SHALL NOT BE PERMITTED WITHIN THE REQUIRED BUFFERS. FOR THE PURPOSES OF THIS CALCULATION, COCONUT PALM IS DESIGNATED AS A NON-COMPETING EXOTIC SPECIES. THE CATEGORY FOR NATIVE SPECIES AS LARGE OR MEDIUM TREES, SMALL TREES OR MEDIUM SHRUBS, OR LOW GROWING (SMALL) SHRUBS OR GROUNDCOVER PLANTS, IS SPECIFIED ON THE CITY'S HORTICULTURALLY AVAILABLE NATIVE PLANTS LIST. THE APPLICABLE CATEGORY FOR NONCOMPETING EXOTIC SPECIES OF PLANTS SHALL BE AS DETERMINED BY THE CITY MANAGER, OR THE MANAGER'S DESIGNEE, CATEGORIZED BY SIZE IN A MANNER CONSISTENT WITH THE HORTICULTURALLY AVAILABLE NATIVE PLANT LIST, EXISTING, PRESERVED PLANTS SHALL BE COUNTED TOWARD MEETING THE REQUIREMENTS OF THIS DIVISION.
 - AN ADMINISTRATIVE WAIVER TO SUBSECTIONS (1), (2), AND (3), TO INCENTIVIZE USE OF NATIVE PLANT SPECIES IN LANDSCAPING, MAY BE AUTHORIZED, IF THE FOLLOWING CONDITIONS ARE MET:
 - ALL VEGETATION WITHIN A REQUIRED VEGETATION BUFFER IS 100 PERCENT NATIVE PLANT SPECIES.
 - SEVENTY-FIVE (75) PERCENT OF THE TOTAL NUMBER OF PLANTS REQUIRED BY SUBSECTIONS (1), (2), AND (3) ARE INSTALLED PURSUANT TO SECTION 122-50.

SANIBEL FIRE STATION

5171 Sanibel-Captiva Road
Sanibel, FL 33957

CODE-REQUIRED BUFFERS

Primary Issue Date: 09/11/2023
PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023
04	SANIBEL BUFFER LDC UPDATE	02/16/2024

LEIGH A. GEVELINGER, P.L.A.
FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: LP-3

2/16/2024 2:29 PM

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23-049_SANIBEL FIRE STATION.dwg

PLANT SCHEDULE EAST BUFFER

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PROPOSED - NATIVE, PROPOSED SHRUBS - NATIVE, and GROUNDCOVERS - NATIVE.

EAST BUFFER: TREE: 6 SPECIES REQUIRED, 4 SPECIES PROVIDED, 2 EXISTING SPECIES (SABAL PALM, MAHOGANY) SHRUB: 5 SPECIES REQUIRED, 5 SPECIES PROVIDED, GROUNDCOVERS: 3 SPECIES REQUIRED, 3 SPECIES PROVIDED. 100% NATIVE BUFFER PLANTING (REFER TO NEW LDC.)

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PROPOSED - NATIVE, PROPOSED SHRUBS - NATIVE, and GROUNDCOVERS - NATIVE.

SANIBEL CAPTIVA ROAD BUFFER: TREE: 6 SPECIES REQUIRED, 6 SPECIES PROVIDED, SHRUB: 5 SPECIES REQUIRED, 5 SPECIES PROVIDED, GROUNDCOVERS: 3 SPECIES REQUIRED, 3 + SPECIES PROVIDED. 100% NATIVE BUFFER PLANTING (REFER TO NEW LDC.)

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PLANT SCHEDULE BOWMAN'S BEACH ROAD BUFFER

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PROPOSED - NATIVE, PROPOSED SHRUBS - NATIVE, and GROUNDCOVERS - NATIVE.

BOWMAN'S BEACH ROAD BUFFER: TREE: 6 SPECIES REQUIRED, 6 SPECIES PROVIDED, SHRUB: 5 SPECIES REQUIRED, 5 SPECIES PROVIDED, GROUNDCOVERS: 3 SPECIES REQUIRED, 3 + SPECIES PROVIDED. 100% NATIVE BUFFER PLANTING (REFER TO NEW LDC.)

PLANT SCHEDULE SOUTH BUFFER

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE, SPECIFICATION. Includes sections for PROPOSED - NATIVE, PROPOSED SHRUBS - NATIVE, and GROUNDCOVERS - NATIVE.

SOUTH BUFFER: TREE: 6 SPECIES REQUIRED, 6 SPECIES PROVIDED, SHRUB: 5 SPECIES REQUIRED, 5 SPECIES PROVIDED, GROUNDCOVERS: 3 SPECIES REQUIRED, 3 SPECIES PROVIDED. 100% NATIVE BUFFER PLANTING (REFER TO NEW LDC.)

PLANT SCHEDULE SITE PROPOSED VEGETATION

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for PARKING TREE, PROPOSED - NATIVE, PROPOSED - NONNATIVE, PROPOSED SHRUBS - NATIVE, PROPOSED SHRUBS - NONNATIVE, and GROUND COVERS.

PLANT SCHEDULE PROPOSED ROW VEGETATION

Table with columns: SYMBOL, QTY, BOTANICAL NAME, COMMON NAME, SIZE. Includes sections for GROUND COVERS and GROUNDCOVERS - NATIVE.



SANIBEL FIRE STATION

5171 Sanibel-Captiva Road Sanibel, FL 33957

PLANT SCGEDULE

Primary Issue Date: 09/11/2023 PLAN REVISIONS:

Table with columns: Version, Notes, Date. Includes revision history for CD Set percentages and LDC updates.

LEIGH A. GEVELINGER, P.L.A. FL LICENSE NO. LA 6667171

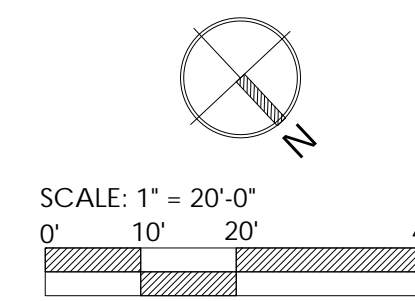
PROJECT #: 23-049

SHEET: LP-4

FOR PERMITTING & FOR BID ONLY. NOT FOR CONSTRUCTION.

SANIBEL FIRE STATION
5171 SANIBEL CAPTIVA ROAD
SANIBEL, FL 33957

PROPOSED IRRIGATION PLAN



PRIMARY ISSUE DATE: 9/11/2023
PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023
04	SANIBEL BUFFER LDC UPDATE	02/16/2024

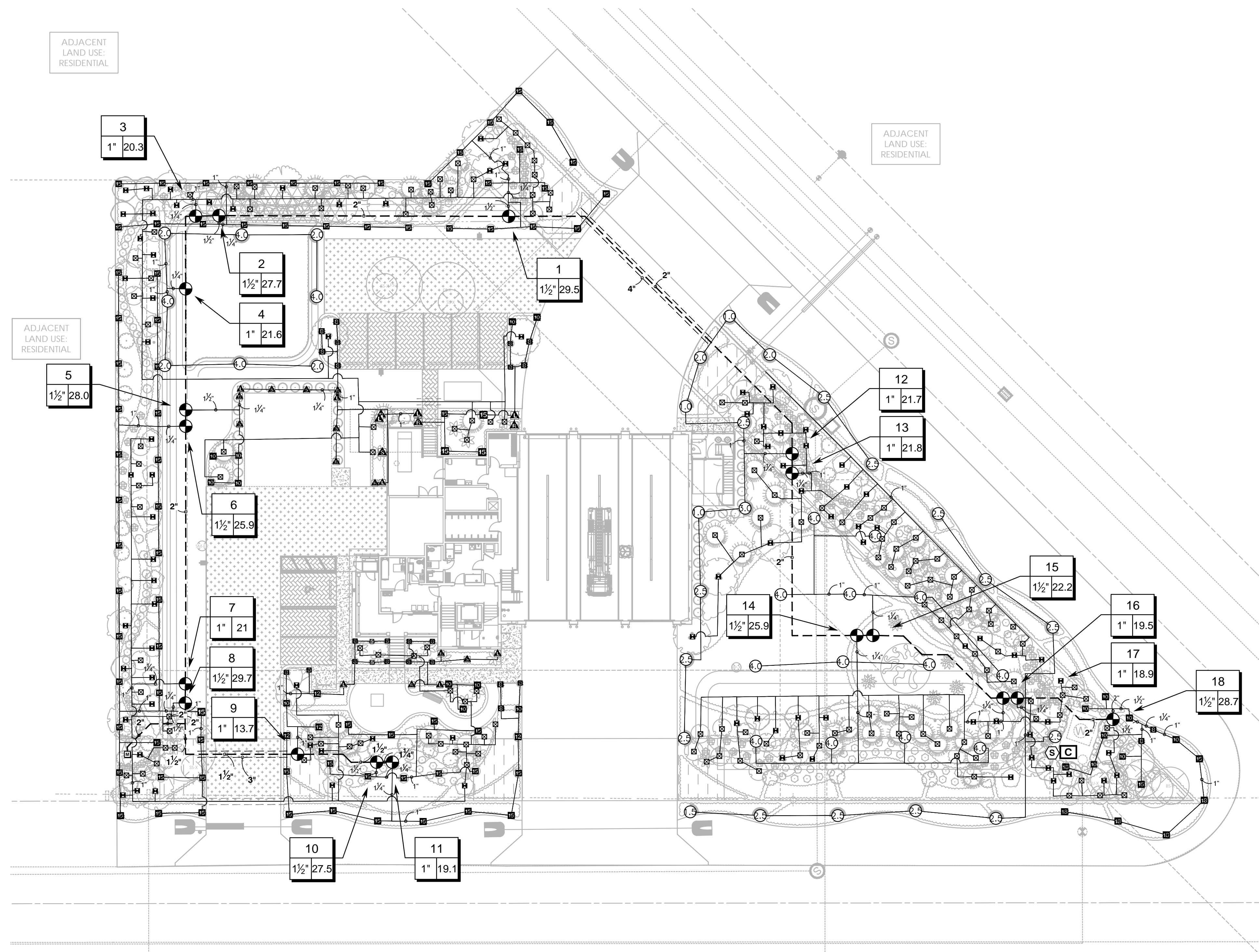
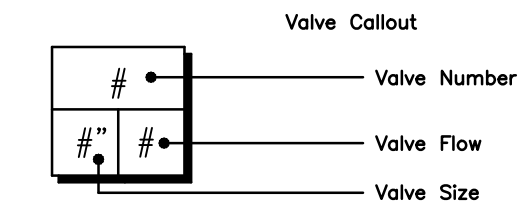
LEIGH A. GEVELINGER, P.L.A.
FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: IR-1

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
EST LCS RCS CST SST	Rain Bird 1812-NP 15 Strip Series Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	24	30		
Q H F	Rain Bird 1812-NP 5 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	2	30		
Q T H F	Rain Bird 1812-NP 8 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	14	30		
Q T H F	Rain Bird 1812-NP 10 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	9	30		
Q T H T F	Rain Bird 1812-NP 12 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	4	30		
Q T H T F	Rain Bird 1812-NP 15 Series MPR Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	60	30		
4 6 8 10 12 15 18	Rain Bird 1812-NP ADJ Shrub Spray 12in. Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2in. NPT Female Threaded Inlet. With Non-Potable Purple Cap.	46	30		
1401 1402 1404 1408	Rain Bird 1800-1400 Flood Fixed flow rate 0.25 GPM - 2.0 GPM, full circle bubbler, 1/2in. FIPT.	240	20		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
10	Hunter PGJ-12-V 1.0 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	3	30	0.85	18'
11	Hunter PGJ-12-V 1.5 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	1	30	1.3	21'
12	Hunter PGJ-12-V 2.0 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	6	30	1.7	24'
13	Hunter PGJ-12-V 2.5 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	14	30	2.2	27'
14	Hunter PGJ-12-V 3.0 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	1	30	2.5	30'
15	Hunter PGJ-12-V 4.0 Shrub Rotor, 12in. Pop-Up. Adjustable and Full Circle. With Drain Check Valve.	17	30	3.7	33'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
16	Rain Bird PESB 1in., 1-1/2in., 2in. Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration. With Scrubber Technology for Reliable Performance in Dirty Water Irrigation Applications.	18			
17	Rain Bird ESPLXME2 w/ (1) ESPLXMSM12 24 Station, Traditionally-Wired, Commercial Controller. (1) ESPLXME2 12-Station, Indoor/Outdoor, Plastic Wall-Mount Enclosure w/ (1) ESPLXMSM12 - 12-Station Expansion Modules.	1			
18	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.	1			
19	Water Meter 1" Potable meter with backflow (By Others)	1			
---	Irrigation Lateral Line: PVC Class 200 SDR 21	5,313 l.f.			
---	Irrigation Mainline: PVC Schedule 40	670.5 l.f.			
---	Pipe Sleeve: PVC Schedule 40	132.8 l.f.			



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	Rain Bird PESB	1-1/2"	Shrub Spray	29.54	312.7	34.7	42.0	1.43 in/h
2	Rain Bird PESB	1-1/2"	Shrub Spray	27.71	405.9	34.8	40.7	1.43 in/h
3	Rain Bird PESB	1"	Bubbler	20.25	413.5	26.7	29.7	1.17 in/h
4	Rain Bird PESB	1"	Shrub Rotor	21.6	440.0	36.1	39.5	1.26 in/h
5	Rain Bird PESB	1-1/2"	Shrub Spray	28.05	479.0	37.3	42.8	2.05 in/h
6	Rain Bird PESB	1-1/2"	Shrub Spray	25.9	484.3	34.9	39.6	1.42 in/h
7	Rain Bird PESB	1"	Bubbler	21	567.2	28.7	31.3	1.32 in/h
8	Rain Bird PESB	1-1/2"	Shrub Spray	29.67	573.4	34.7	40.1	1.52 in/h
9	Rain Bird PESB	1"	Shrub Spray	13.71	625.9	34.7	36.1	1.26 in/h
10	Rain Bird PESB	1-1/2"	Shrub Spray	27.55	652.5	36.1	42.4	1.06 in/h
11	Rain Bird PESB	1"	Shrub Spray	19.15	657.5	35.1	38.2	1.05 in/h
12	Rain Bird PESB	1"	Shrub Rotor	21.65	184.1	37.4	41.9	0.88 in/h
13	Rain Bird PESB	1"	Bubbler	21.75	177.8	26.2	30.7	1.24 in/h
14	Rain Bird PESB	1-1/2"	Shrub Rotor	25.9	104.7	35.7	42.7	0.55 in/h
15	Rain Bird PESB	1-1/2"	Shrub Rotor	22.2	99.5	35.3	40.4	0.59 in/h
16	Rain Bird PESB	1"	Bubbler	19.5	49.4	25.4	29.4	1.2 in/h
17	Rain Bird PESB	1"	Shrub Rotor	18.9	44.7	37.6	41.5	0.67 in/h
18	Rain Bird PESB	1-1/2"	Shrub Spray	28.69	21.9	35.5	44.7	1.43 in/h
	Common Wire				670.5			

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN/WEEK	MIN/WEEK	GAL./WEEK	GAL./DAY
1	Rain Bird PESB	Shrub Spray	1.43 in/h	1	42	1,241	
2	Rain Bird PESB	Shrub Spray	1.43 in/h	1	43	1,192	
3	Rain Bird PESB	Bubbler	1.17 in/h	1	52	1,053	
4	Rain Bird PESB	Shrub Rotor	1.26 in/h	1	48	1,037	
5	Rain Bird PESB	Shrub Spray	2.05 in/h	1	30	841	
6	Rain Bird PESB	Shrub Spray	1.42 in/h	1	43	1,114	
7	Rain Bird PESB	Bubbler	1.32 in/h	1	46	966	
8	Rain Bird PESB	Shrub Spray	1.52 in/h	1	40	1,187	
9	Rain Bird PESB	Shrub Spray	1.26 in/h	1	48	658	
10	Rain Bird PESB	Shrub Spray	1.06 in/h	1	57	1,570	
11	Rain Bird PESB	Shrub Spray	1.05 in/h	1	58	1,110	
12	Rain Bird PESB	Shrub Rotor	0.88 in/h	1	69	1,494	
13	Rain Bird PESB	Bubbler	1.24 in/h	1	49	1,066	
14	Rain Bird PESB	Shrub Rotor	0.55 in/h	1	110	2,849	
15	Rain Bird PESB	Shrub Rotor	0.59 in/h	1	102	2,264	
16	Rain Bird PESB	Bubbler	1.2 in/h	1	51	995	
17	Rain Bird PESB	Shrub Rotor	0.67 in/h	1	90	1,701	
18	Rain Bird PESB	Shrub Spray	1.43 in/h	1	43	1,234	
	TOTALS:				1,021	23,571	

PERMIT SET ONLY. NOT FOR BIDDING OR CONSTRUCTION.

GENERAL NOTES:

- Irrigation system design requirements: See Critical Analysis IR-2. The irrigation contractor shall verify the available GPM and PSI prior to installation of the system.
- Do not willfully install the irrigation as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example: obstructions, grade differences, water levels dimensional differences, etc. Refer to the landscape plan to avoid conflicts with proposed trees or shrubs.
- Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings, outside property lines, under pavement, in lakes or ditches, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, green areas.
- Pipe sizes shall conform to those on the drawing. Substituting with smaller pipe sizes will not be permitted.
- If required the Irrigation Contractor shall provide the necessary Right of Way use permits.
- Mainline to be installed with a minimum of 18" depth of cover, lateral lines are to be installed with a minimum of 12" depth of cover.
- Unless otherwise indicated all sleeves are to be PVC Sch 40 and at least two (2) nominal sizes larger than the pipe to be sleeved.
- Wherever practical, install valves in mulched beds and/or out of high traffic areas. all valves, flush valves and wire splices shall be installed in Carson valve boxes as follows: Remote control valves in 12" standard rectangular box and wire splices in 10" round valve box.
- All 24 volt control wire to be UL listed 14 Gauge single strand.
- All wire connections to be King sealed wire Connectors.
- All pop up sprinkler heads shall be installed level and flush to grade. Mount all heads and bubblers on 18" of flexible PVC.
- The rain shut off device shall be installed to meet local codes and/or minimum manufacturer's recommendations.
- The irrigation contractor shall prepare an AS-BUILT drawing on reproducible paper showing all main line piping, control wires and valves by showing exact measurements from hard surfaces.
- The owner will supply power to the irrigation controller.
- Any other equipment required that is not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
- All heads, bubblers, valves, drip tubing, valve boxes and pipe on reclaim systems will be properly marked as such. All reclaim pipe bubblers and valve boxes will be purple in color, all electric valves will have purple tags and handles and all heads will have purple tops or purple snap on covers.
- Velocity not to exceed 5' per second.

CRITICAL ANALYSIS

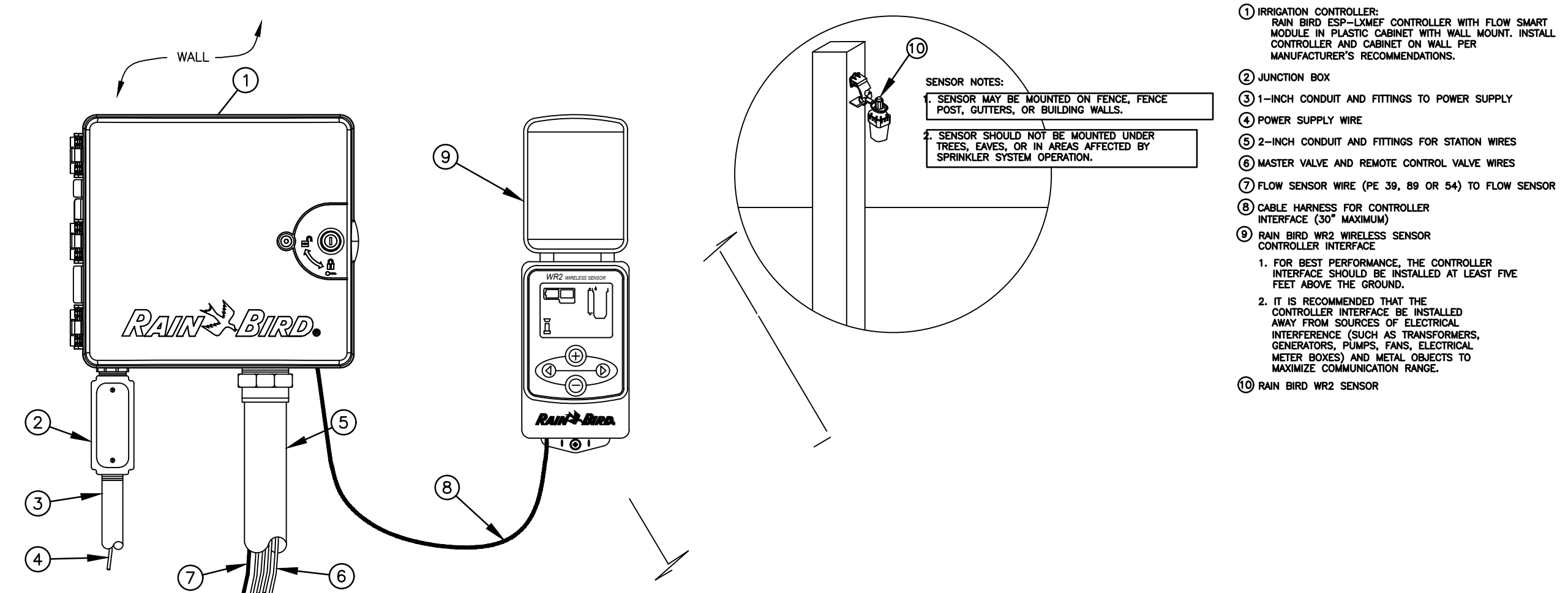
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 Water Source Information: Potable meter with backflow (By Others)

FLOW AVAILABLE
 Water Meter Size: 1"
 Flow Available: 37.5 GPM

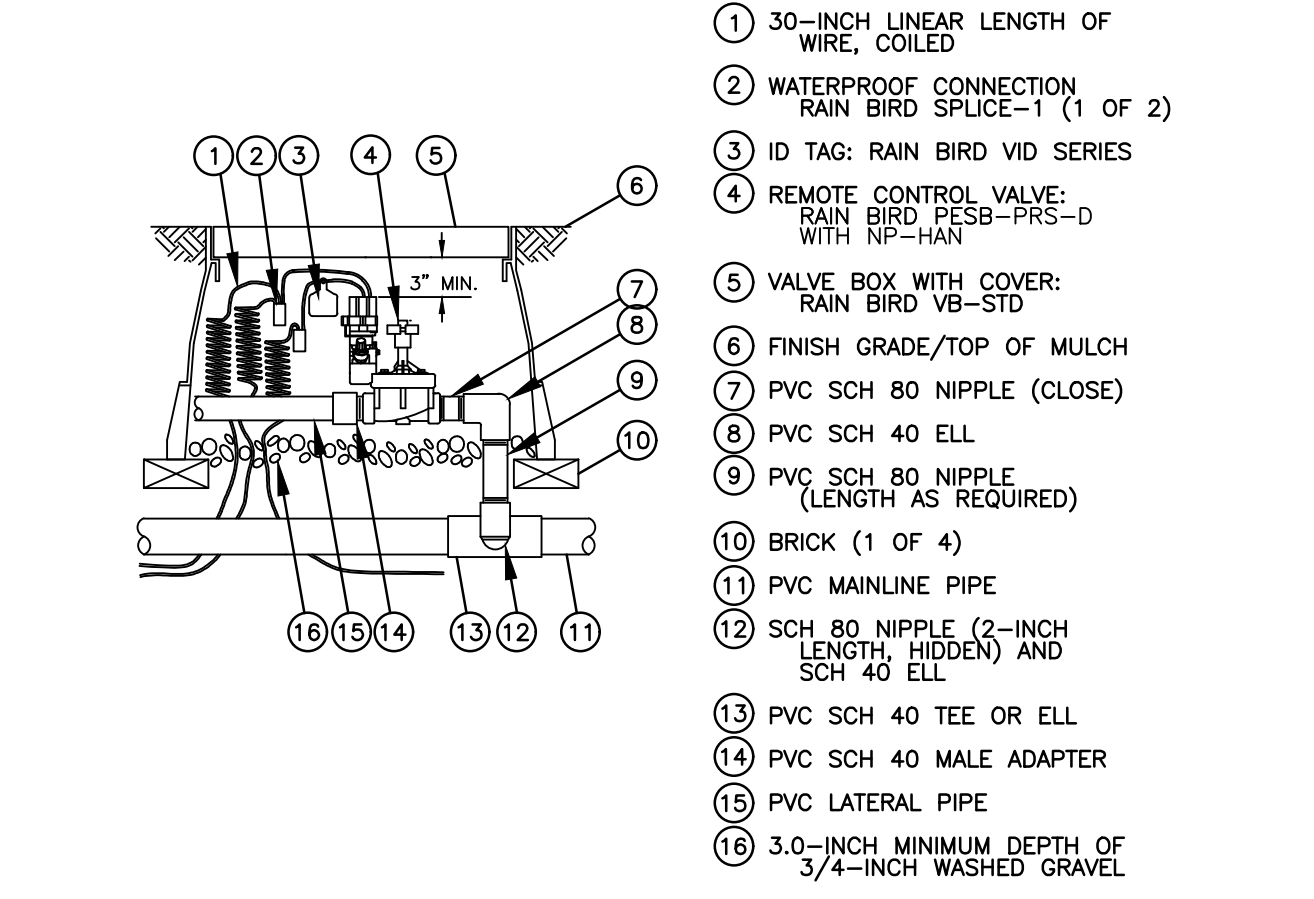
PRESSURE AVAILABLE
 Static Pressure at POC: 50 PSI
 Elevation Change: 5.00 ft
 Service Line Size: 3"
 Length of Service Line: 20 ft
 Pressure Available: 47 PSI

DESIGN ANALYSIS
 Maximum Station Flow: 29.67 GPM
 Flow Available at POC: 37.5 GPM
 Residual Flow Available: 7.83 GPM

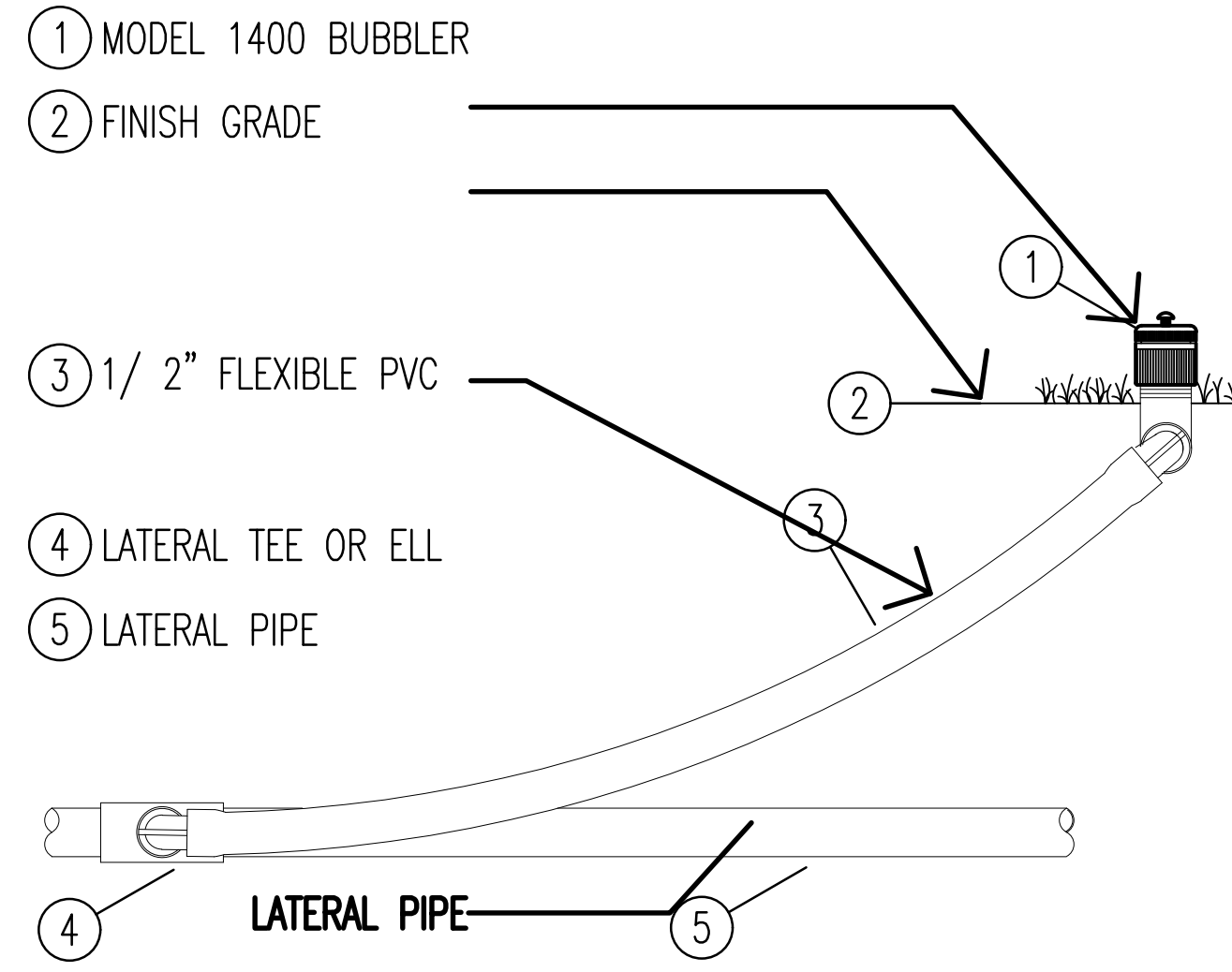
Critical Station: 18
 Design Pressure: 30 PSI
 Friction Loss: 1.73 PSI
 Fittings Loss: 0.17 PSI
 Elevation Loss: 0 PSI
 Loss through Valve: 3.64 PSI
 Pressure Req. at Critical Station: 35.5 PSI
 Loss for Fittings: 0.39 PSI
 Loss for Main Line: 3.85 PSI
 Loss for POC to Valve Elevation: 0 PSI
 Loss for Backflow: 0 PSI
 Loss for Water Meter: 4.88 PSI
 Critical Station Pressure at POC: 44.7 PSI
 Pressure Available: 47 PSI
 Residual Pressure Available: 2.33 PSI



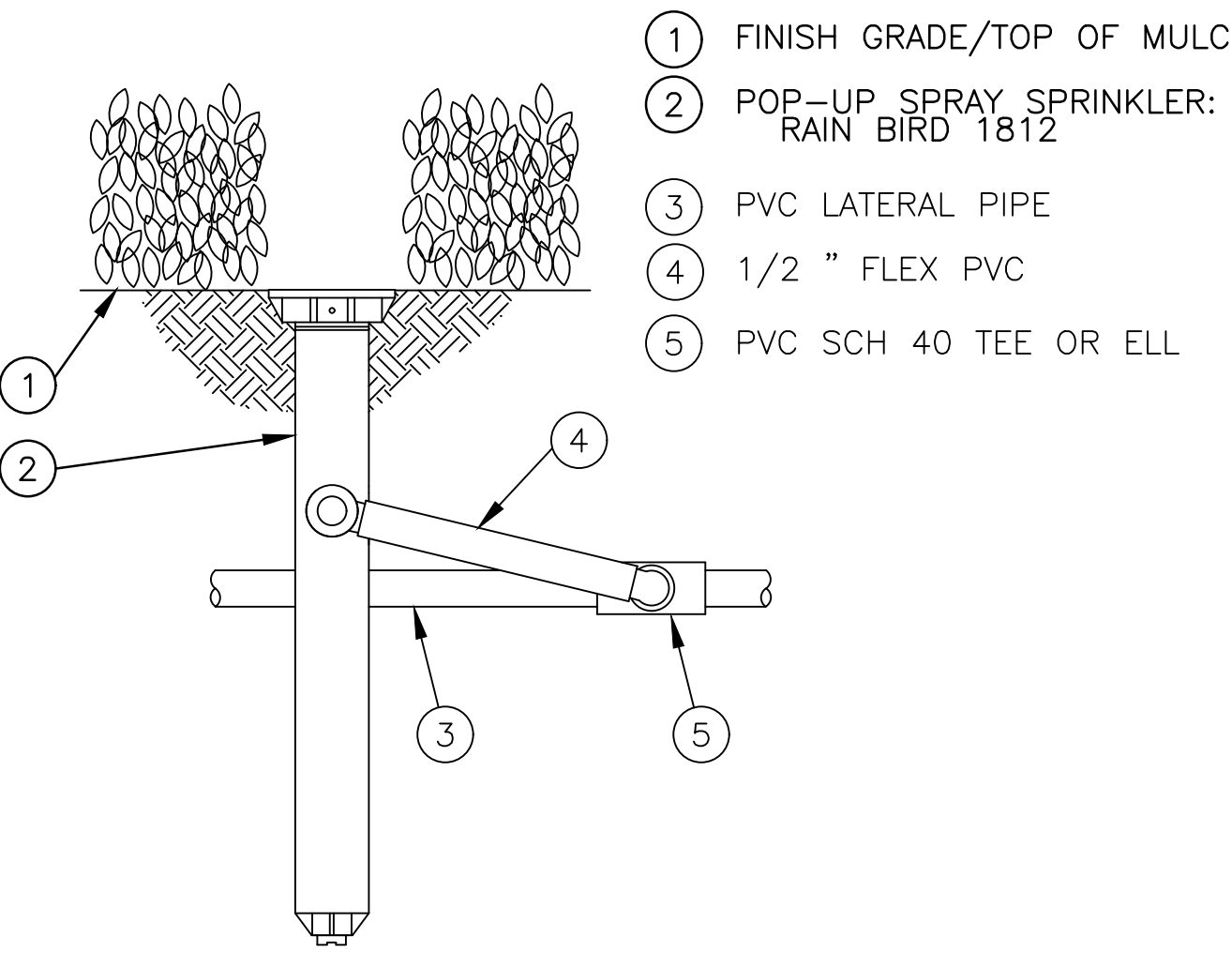
1 RAINBIRD ESP WITH WIRELESS SENSOR
 1" = 1" P-RE-RAI-11



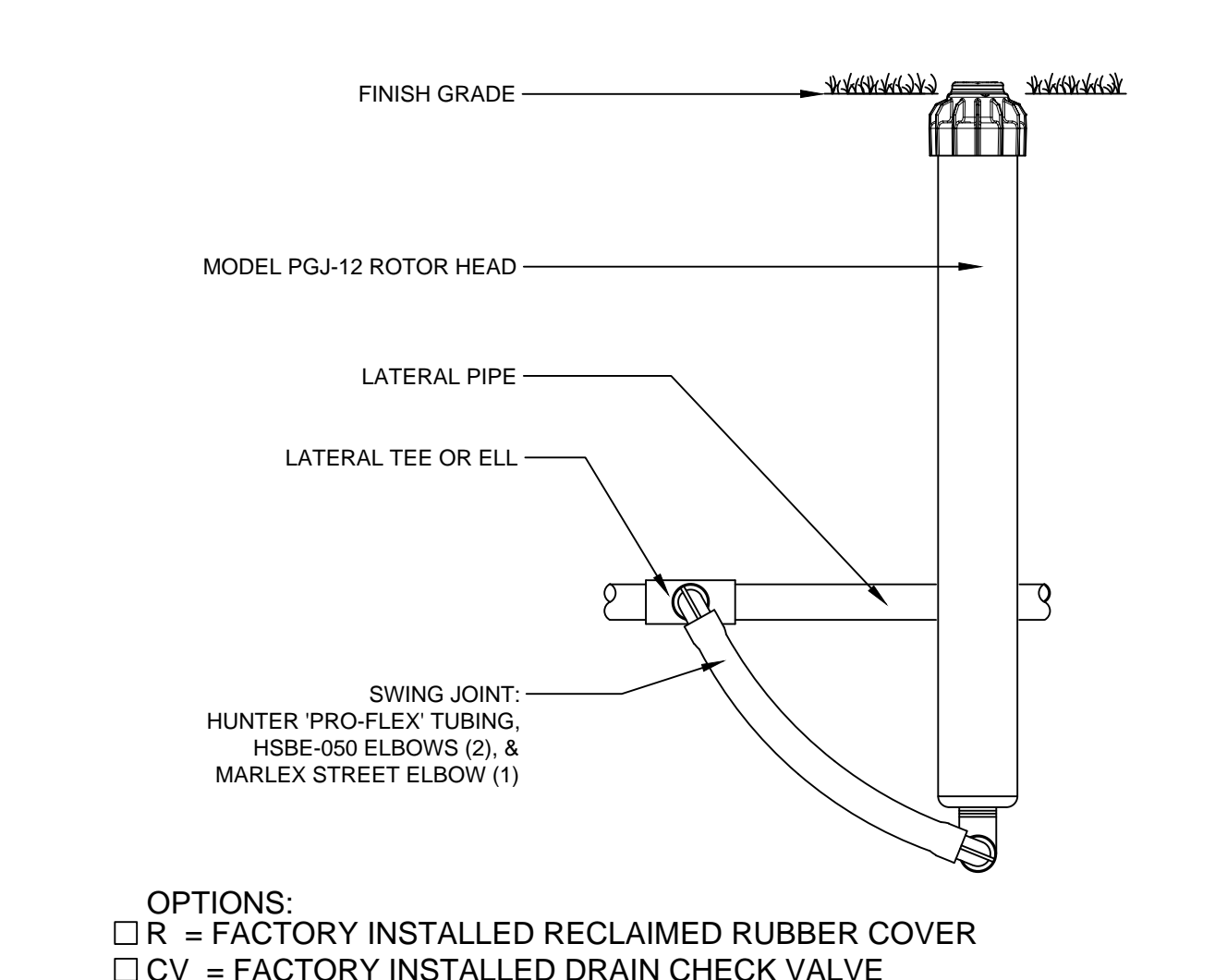
2 RAINBIRD PESB
 1" = 1" P-RE-RAI-01



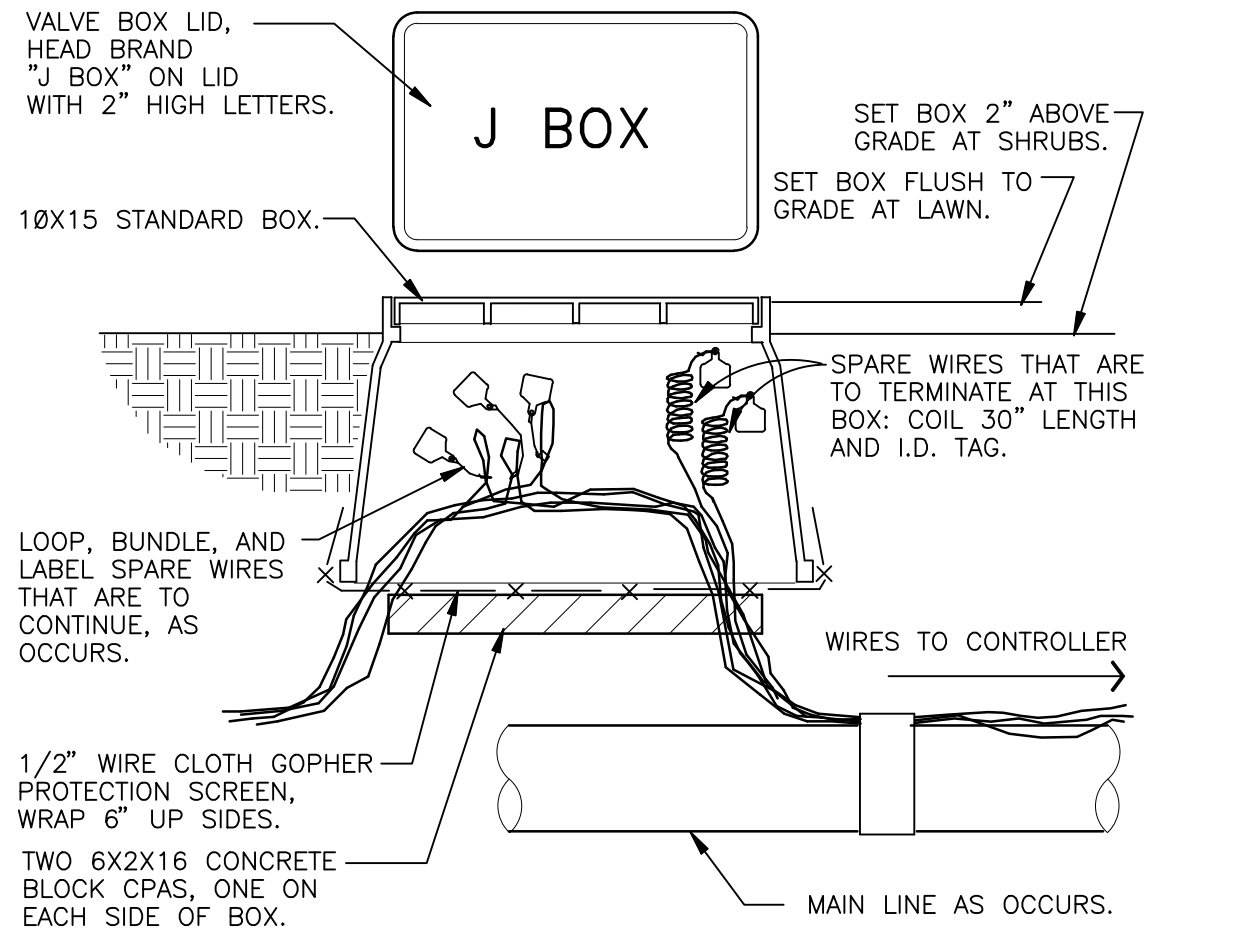
3 RAINBIRD 1400 BUBBLER
 NTS P-RE-RAI-12



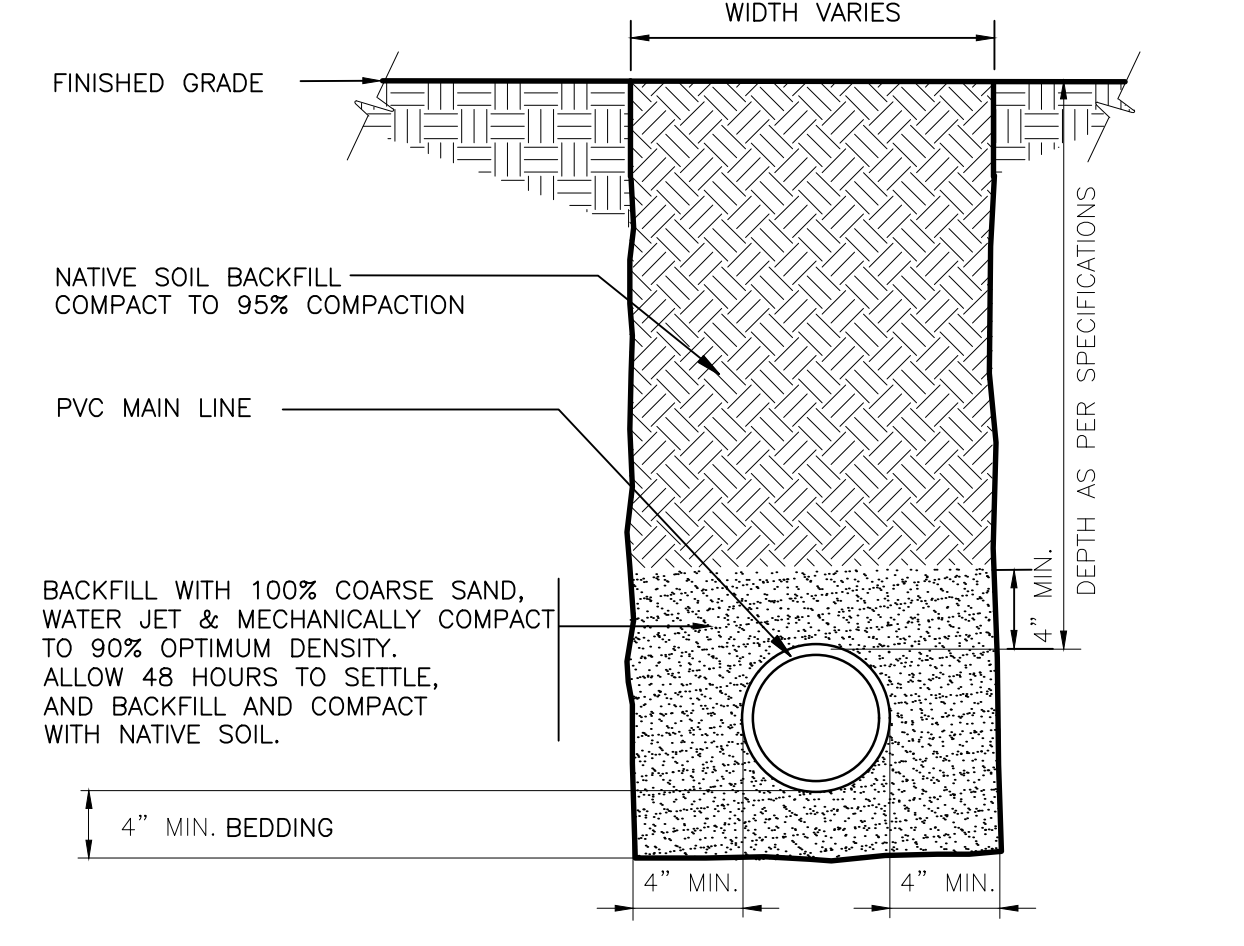
4 RAINBIRD 1812
 NTS P-RE-RAI-03



5 PGJ-12 ROTOR HEAD WITH PRO-FLEX TUBING
 3' = 1'-0" FX-IR-HUNT-ROTR-86

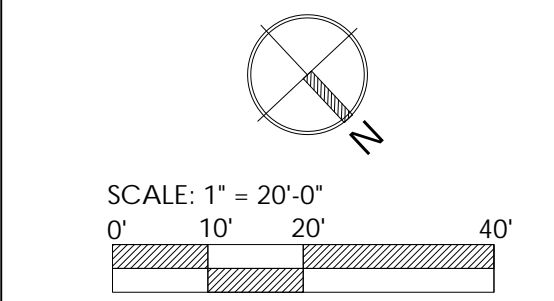


6 WIRE BUNDLE JUNCTION BOX
 1 1/2' = 1'-0" FX-IR-FX-AUXEQ-16



7 SLEEVE AT ROAD
 1 1/2' = 1'-0" FX-IR-FX-AUXEQ-15

SANIBEL FIRE STATION
 5171 SANIBEL CAPTIVA ROAD
 SANIBEL, FL 33957
 PROPOSED IRRIGATION PLAN



PRIMARY ISSUE DATE: 9/11/2023
 PLAN REVISIONS:

Version	Notes	Date
01	60% CD Set	10/20/2023
02	90% CD Set	11/10/2023
03	100% CD Set	12/22/2023
04	SANIBEL BUFFER LDC UPDATE	02/16/2024

LEIGH A. GEVELINGER, P.L.A.
 FL LICENSE NO. LA 6667171

PROJECT #: 23-049

SHEET: IR-2

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**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA
SANIBEL, FLORIDA 33957



9510 Corkscrew Palms
Circle, Unit 1
Estero, FL 33928
voice (239) 208-4846

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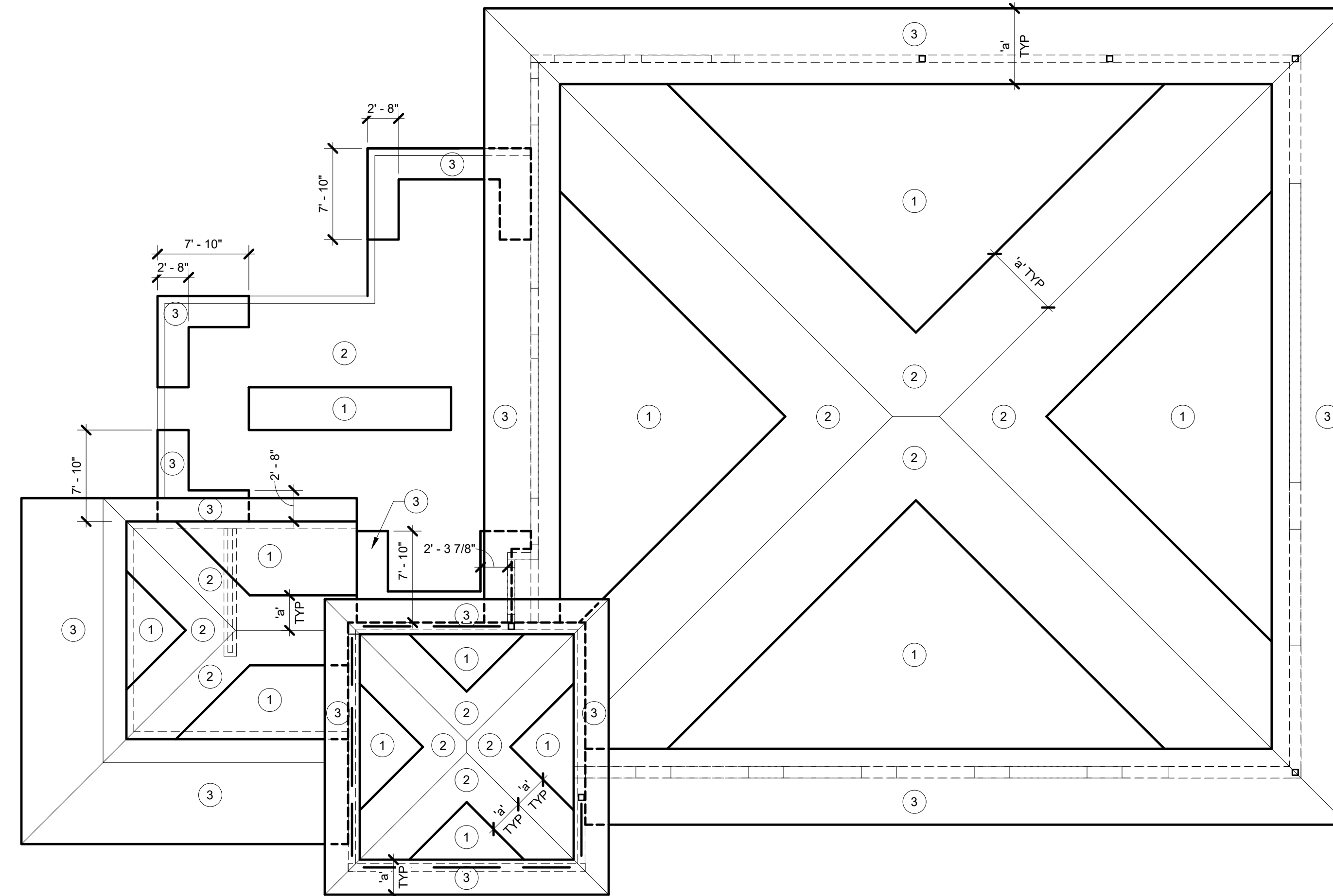
www.trc.com
FILE NO. 23FTM232

REVISIONS		
MARK	DESCRIPTION	DATE
1	Permit comment response	02.14.24

COMPONENT & CLADDING NOMINAL WIND PRESSURES (PER ASCE 7-22)									
ULTIMATE WIND SPEED, VULT	190 MPH	RISK CATEGORY		IV	EDGE DISTANCE, "a"		3'-0"		
NOMINAL WIND SPEED, VASD	147 MPH	EXPOSURE		A/C	ROOF SLOPE		4.00/12		
HIP ROOF 7° < 0 ≤ 20° AND h ≤ 60 FT		DIRECTIONALITY FACTOR, Kd		0.85					
COMPONENT LOCATION		POSITIVE PRESSURES (PSF)				NEGATIVE PRESSURES (PSF)			
EFFECTIVE AREA, Ae		10 ft²	20 ft²	50 ft²	100 ft²	10 ft²	20 ft²	50 ft²	100 ft²
ROOFS	ZONE 1: INTERIOR WITHIN "a" ft FROM EAVES TO "a" ft FROM HIP AND RIDGES	+48.70	+42.03	+33.22	+26.56	-109.56	-96.76	-79.83	-67.03
	ZONE 2: WITHIN "a" ft FROM HIP AND RIDGES	+48.70	+42.03	+33.22	+26.56	-142.76	-128.68	-110.06	-95.98
	ZONE 3: WITHIN "a" ft FROM EAVES	+48.70	+42.03	+33.22	+26.56	-153.83	-138.47	-118.16	-102.80
	OVERHANG: ZONE 3: OVERHANGS WITHIN "a" ft FROM CORNERS	N/A	N/A	N/A	N/A	-199.20	-180.90	-156.70	-138.40
WALLS	ZONE 4: INTERIOR	+85.76	+82.82	+78.94	+76.00	-91.30	-88.36	-84.47	-81.53
	ZONE 5: EXTERIOR	+85.76	+82.82	+78.94	+76.00	-107.90	-102.02	-94.24	-88.36

- NOTES:
1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURE VALUES IN ABOVE TABLE ARE FOR:
ROOF - ENCLOSED BUILDING, GCPI = ± 0.18
WALL - PARTIALLY ENCLOSED BUILDING, GCPI = ± 0.55
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16 psf (ULTIMATE VALUE) OR 10 PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.

2 TOWER ROOF WIND TABLE
12" = 1'-0"



1 ROOF UPLIFT DIAGRAM
1/8" = 1'-0"

COMPONENT & CLADDING NOMINAL WIND PRESSURES (PER ASCE 7-22)										
ULTIMATE WIND SPEED, VULT	190 MPH	RISK CATEGORY		IV	EDGE DISTANCE, "a"		6'-6"			
NOMINAL WIND SPEED, VASD	147 MPH	EXPOSURE		A/C	ROOF SLOPE		3.00/12			
HIP ROOF 7° < 0 ≤ 20° AND h ≤ 60 FT		DIRECTIONALITY FACTOR, Kd		0.85						
COMPONENT LOCATION		POSITIVE PRESSURES (PSF)				NEGATIVE PRESSURES (PSF)				
EFFECTIVE AREA, Ae		10 ft²	20 ft²	50 ft²	100 ft²	10 ft²	20 ft²	50 ft²	100 ft²	
ROOFS	ZONE 1: FROM 0.6 TO 1.2h DISTANCE FROM HIP, RIDGES AND EDGES	+23.42	+21.95	+20.00	+18.54	-91.71	-85.66	-77.66	-71.61	
	ZONE 2: WITHIN 0.6h DISTANCE FROM HIP, RIDGES AND EDGES	+23.42	+21.95	+20.00	+18.54	-120.98	-113.20	-102.92	-95.14	
	ZONE 3: WITHIN 0.6h FROM CORNERS AND 0.2h WIDE	+23.42	+21.95	+20.00	+18.54	-120.98	-113.20	-102.92	-95.14	
	OVERHANG: ZONE 1 & 1'	N/A	N/A	N/A	N/A	-82.93	-81.46	-79.52	-78.05	
WALLS	ZONE 4: INTERIOR	+75.61	+73.02	+69.59	+67.00	-80.49	-77.90	-74.47	-71.87	
	ZONE 5: EXTERIOR	+75.61	+73.02	+69.59	+67.00	-95.12	-89.94	-83.08	-77.90	
PARAPETS	CASE A		CASE B		CASE A		CASE B		CASE B	
	INTERIOR ZONE	+182.51	+171.91	+157.89	+147.28	-122.67	-117.37	-110.36	-105.05	
CORNER ZONE	+182.51	+171.91	+157.89	+147.28	-137.63	-129.68	-119.17	-111.21		

- NOTES:
1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURE VALUES IN ABOVE TABLE ARE FOR:
ROOF - ENCLOSED BUILDING, GCPI = ± 0.18
WALL - PARTIALLY ENCLOSED BUILDING, GCPI = ± 0.55
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16 psf (ULTIMATE VALUE) OR 10 PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.

5 TRAINING ROOF WIND TABLE
12" = 1'-0"

COMPONENT & CLADDING NOMINAL WIND PRESSURES (PER ASCE 7-22)									
ULTIMATE WIND SPEED, VULT	190 MPH	RISK CATEGORY		IV	EDGE DISTANCE, "a"		3'-0"		
NOMINAL WIND SPEED, VASD	147 MPH	EXPOSURE		A/C	ROOF SLOPE		6.00/12		
HIP ROOF 7° < 0 ≤ 20° AND h ≤ 60 FT		DIRECTIONALITY FACTOR, Kd		0.85					
COMPONENT LOCATION		POSITIVE PRESSURES (PSF)				NEGATIVE PRESSURES (PSF)			
EFFECTIVE AREA, Ae		10 ft²	20 ft²	50 ft²	100 ft²	10 ft²	20 ft²	50 ft²	100 ft²
ROOFS	ZONE 1: INTERIOR WITHIN "a" ft FROM EAVES TO "a" ft FROM HIP AND RIDGES	+43.88	+37.88	+29.94	+23.93	-78.79	-69.78	-57.88	-48.87
	ZONE 2: WITHIN "a" ft FROM HIP AND RIDGES	+43.88	+37.88	+29.94	+23.93	-108.71	-93.70	-73.85	-58.84
	ZONE 3: WITHIN "a" ft FROM EAVES	+43.88	+37.88	+29.94	+23.93	-108.71	-93.70	-73.85	-58.84
	OVERHANG: ZONE 3: OVERHANGS WITHIN "a" ft FROM CORNERS	N/A	N/A	N/A	N/A	-158.57	-140.91	-117.56	-99.90
WALLS	ZONE 4: INTERIOR	+77.29	+74.64	+71.14	+68.48	-82.28	-79.63	-76.12	-73.47
	ZONE 5: EXTERIOR	+77.29	+74.64	+71.14	+68.48	-97.24	-91.94	-84.93	-79.63

- NOTES:
1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURE VALUES IN ABOVE TABLE ARE FOR:
ROOF - ENCLOSED BUILDING, GCPI = ± 0.18
WALL - PARTIALLY ENCLOSED BUILDING, GCPI = ± 0.55
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16 psf (ULTIMATE VALUE) OR 10 PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.

4 PORCH ROOF WIND TABLE
12" = 1'-0"

COMPONENT & CLADDING NOMINAL WIND PRESSURES (PER ASCE 7-22)									
ULTIMATE WIND SPEED, VULT	190 MPH	RISK CATEGORY		IV	EDGE DISTANCE, "a"		6'-6"		
NOMINAL WIND SPEED, VASD	147 MPH	EXPOSURE		A/C	ROOF SLOPE		3.00/12		
HIP ROOF 7° < 0 ≤ 20° AND h ≤ 60 FT		DIRECTIONALITY FACTOR, Kd		0.85					
COMPONENT LOCATION		POSITIVE PRESSURES (PSF)				NEGATIVE PRESSURES (PSF)			
EFFECTIVE AREA, Ae		10 ft²	20 ft²	50 ft²	100 ft²	10 ft²	20 ft²	50 ft²	100 ft²
ROOFS	ZONE 1: INTERIOR WITHIN "a" ft FROM EAVES TO "a" ft FROM HIP AND RIDGES	+47.86	+41.32	+32.66	+26.11	-107.69	-95.11	-78.47	-65.89
	ZONE 2: WITHIN "a" ft FROM HIP AND RIDGES	+47.86	+41.32	+32.66	+26.11	-140.33	-126.49	-108.19	-94.34
	ZONE 3: WITHIN "a" ft FROM EAVES	+47.86	+41.32	+32.66	+26.11	-151.21	-136.11	-116.15	-101.05
	OVERHANG: ZONE 3: OVERHANGS WITHIN "a" ft FROM CORNERS	N/A	N/A	N/A	N/A	-195.80	-177.82	-154.03	-136.04
WALLS	ZONE 4: INTERIOR	+84.31	+81.41	+77.59	+74.70	-89.74	-86.85	-83.03	-80.14
	ZONE 5: EXTERIOR	+84.31	+81.41	+77.59	+74.70	-106.06	-100.28	-92.63	-86.85

- NOTES:
1. "Ae" INDICATES EFFECTIVE AREA AS DEFINED BY SECTION 26.2 OF ASCE 7.
2. PRESSURE VALUES IN ABOVE TABLE ARE BASED ON THE PARAMETERS LISTED AT THE TOP OF THE TABLE.
3. PRESSURE VALUES IN ABOVE TABLE ARE FOR:
ROOF - ENCLOSED BUILDING, GCPI = ± 0.18
WALL - PARTIALLY ENCLOSED BUILDING, GCPI = ± 0.55
4. GLAZED OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 26.10.3 OF ASCE 7.
5. POSITIVE OR NEGATIVE DESIGN PRESSURES SHALL NOT BE TAKEN LESS THAN 16 psf (ULTIMATE VALUE) OR 10 PSF (NOMINAL VALUE).
6. POSITIVE WIND PRESSURES ACT TOWARD THE SURFACE AND NEGATIVE PRESSURES ACT AWAY FROM THE SURFACE.
7. PRESSURES IN TABLE ARE ALLOWABLE PRESSURES. NO FURTHER REDUCTIONS PERMITTED.

3 MAIN ROOF WIND TABLE
12" = 1'-0"

COMM. NO.: 23FTM232
ISSUE DATE: 12.22.23

DRAWN BY: RHE

WIND PRESSURES

S003

100% CONSTRUCTION DOCUMENTS



SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION: 5171 SANIBEL-CAPTIVA SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1 Estero, FL 33928 voice (239) 208-4846

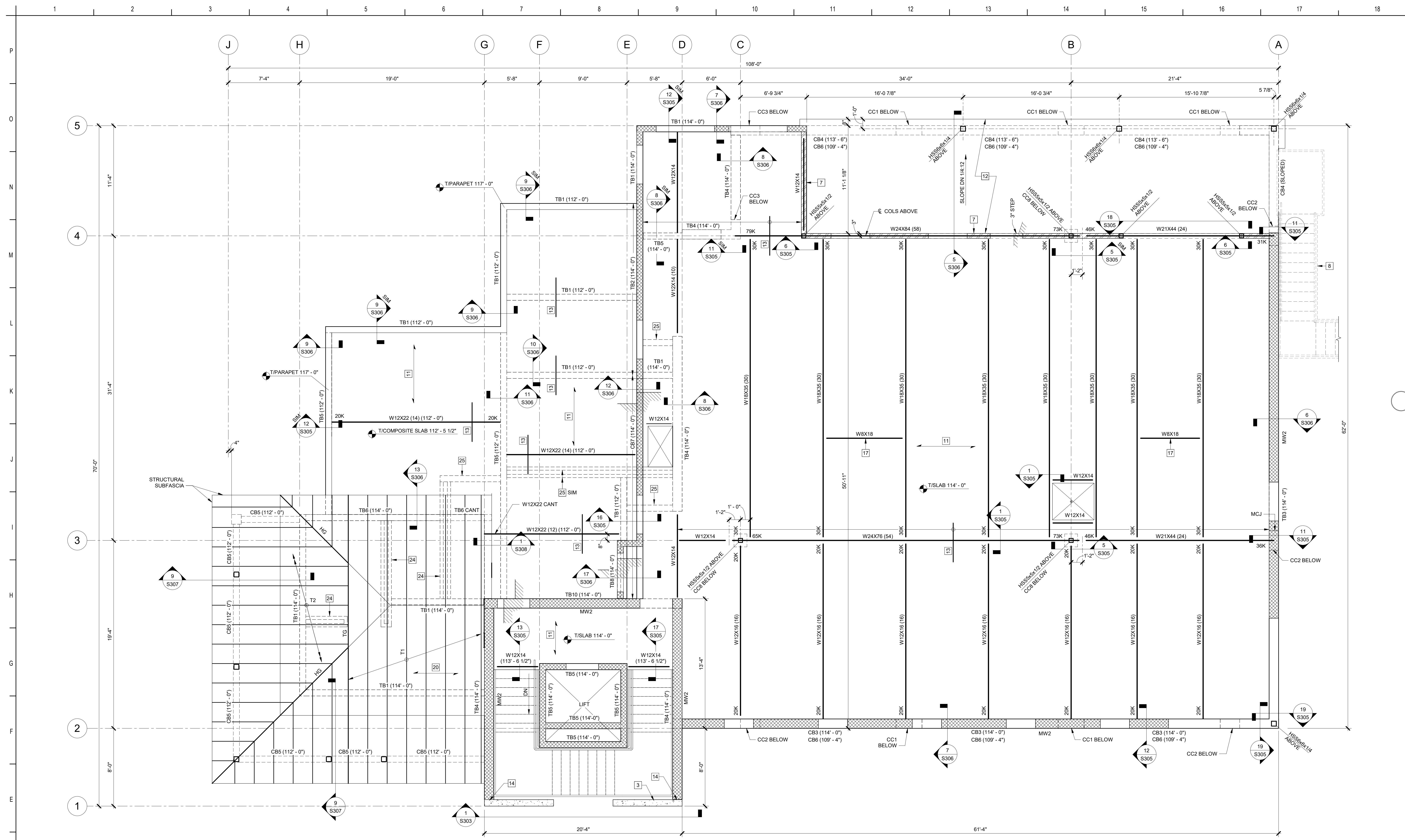
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REVISIONS table with columns: MARK, DESCRIPTION, DATE



1 SECOND FLOOR AND LOW ROOF FRAMING PLAN

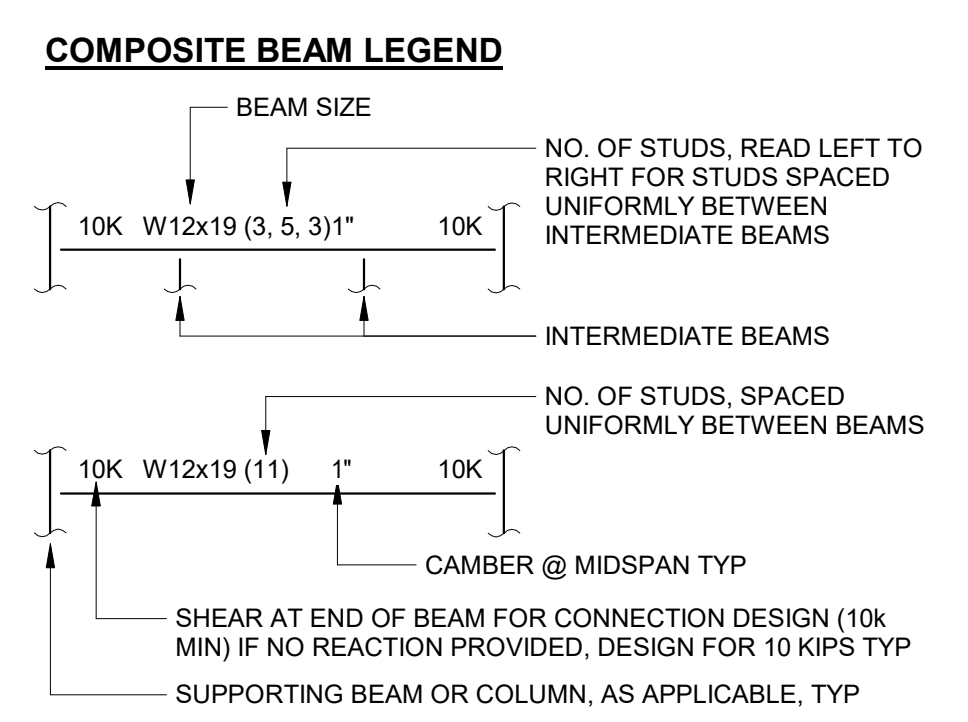
ROOF TRUSSES ARE A DELAYED SUBMITTAL

- SECOND FLOOR & LOW ROOF PLAN NOTES: 1. TISLAB IS BASED ON A TOP OF FIRST FLOOR SLAB REFERENCE ELEVATION 0'-0". 2. SEE SHEET S001 - S003 FOR STRUCTURAL NOTES AND DESIGN CRITERIA. 3. VERIFY ALL DIMENSIONS, ELEVATIONS AND FINISHES WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. 4. TOP OF STEEL ELEVATION SHALL BE 5 1/2" BELOW TOP OF SLAB ELEVATION. 5. DENOTES DECK SPAN DIRECTION. 6. ALL COMPOSITE FLOOR BEAMS SHALL HAVE A MINIMUM OF 3/4" x 4 1/2" HEADED STUDS AT 38" OC MAX. SEE 1 / S306. 7. COMPOSITE STEEL FRAMING SHALL NOT BE SHORED DURING CONSTRUCTION. FLOOR FRAMING DESIGNED FOR AN UNSHORED CONDITION DURING CONSTRUCTION. 8. ALL SIMPSON STRONG TIE CONNECTORS TO BE HOT DIPPED GALVANIZED STEEL. 9. ANY SIMPSON STRONG TIE HANGER MAY HAVE A SLOPED SEAT AS REQUIRED TO MAINTAIN ROOF SLOPE SPECIFIED BY ARCHITECT. 10. ALL SIMPSON CONNECTORS MUST BE INSTALLED AS PER SIMPSON STRONG-TIE'S INSTRUCTIONS AND RECOMMENDATIONS. ALL TIE DOWNS ARE TO BE INSTALLED WITH THE MAXIMUM NUMBER OF FASTENERS POSSIBLE, AS DEFINED BY SIMPSON STRONG-TIE. 11. PROVIDE A MOISTURE BARRIER BETWEEN WOOD TRUSSES / RAFTERS AND CONCRETE / MASONRY PER ARCHITECTURAL SPECIFICATIONS. 12. ALL MASONRY (CMU) WALLS TO BE TYPE MW1, UNLESS NOTED OTHERWISE. SEE SHEET S302 FOR CMU WALL SCHEDULE AND ADDITIONAL INFORMATION.

- SECOND FLOOR & LOW ROOF LEGEND: CB# & TB# CONCRETE BEAM & TIE BEAM TYPE. SEE SHEET S2.1 FOR BEAM SCHEDULE. T1 PRE-ENGINEERED WOOD TRUSSES AT 2'-0" OC MAXIMUM SPACING. PROVIDE HOLDOWN [A] AT SUPPORTS, TYP UNO. T2 PRE-ENGINEERED WOOD JACK TRUSSES AT 2'-0" OC MAXIMUM SPACING. PROVIDE HOLDOWN [A] AT SUPPORTS, TYP UNO. HG PRE-ENGINEERED HIP TRUSS GIRDER. PROVIDE HOLDOWN [B] AT SUPPORTS, TYP UNO. TG PRE-ENGINEERED TRUSS GIRDER. PROVIDE HOLDOWN [B] AT SUPPORTS, TYP UNO. CC# CONCRETE COLUMN TYPE. SEE SHEET S201. MASONRY (CMU) WALLS. SEE NOTE 12. CMU CONTROL JOINT. SEE 2 / S304

SIMPSON STRONGTIE TRUSS TIE DOWN SCHEDULE table with columns: MARK, CONNECTOR TYPE, CAPACITY, NOTES

KEYNOTES table with columns: KEY, DESCRIPTION



- NOTES: 1. SEE PLAN NOTES FOR STUD SIZE. 2. SEE 1 / S306 FOR STUD PLACEMENT. 3. WHERE # OF STUDS ARE NOT INDICATED, BEAM IS NON-COMPOSITE. 4. LOADS ARE SERVICE LEVEL (ASD).

COMM. NO.: 23FTM232 ISSUE DATE: 12.22.23 DRAWN BY: SEGRHE

SECOND FLOOR AND LOW ROOF FRAMING PLAN



**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA
SANIBEL, FLORIDA 33957



9510 Corkscrew Palms
Circle, Unit 1
Estero, FL 33928
voice (239) 208-4846

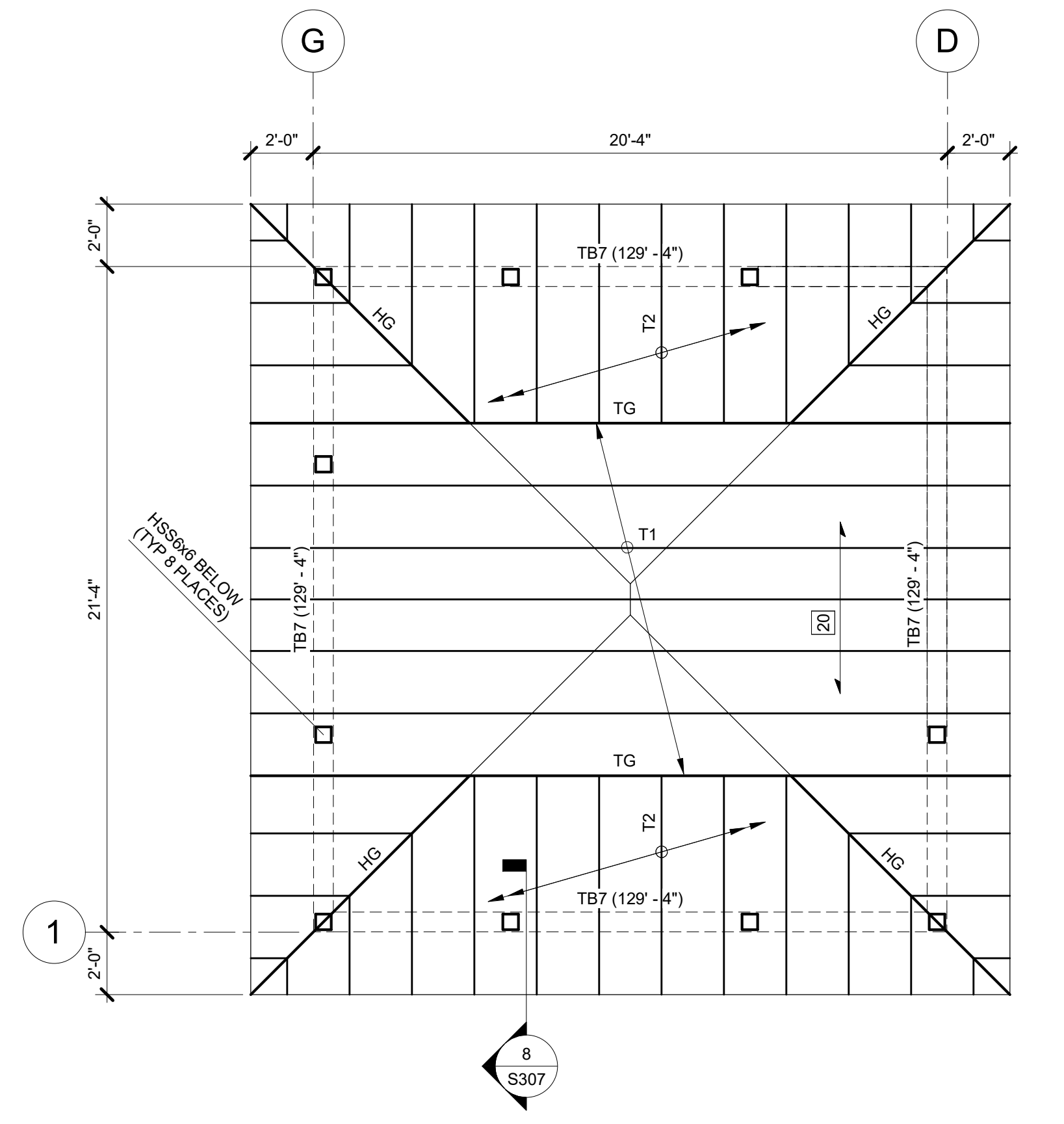
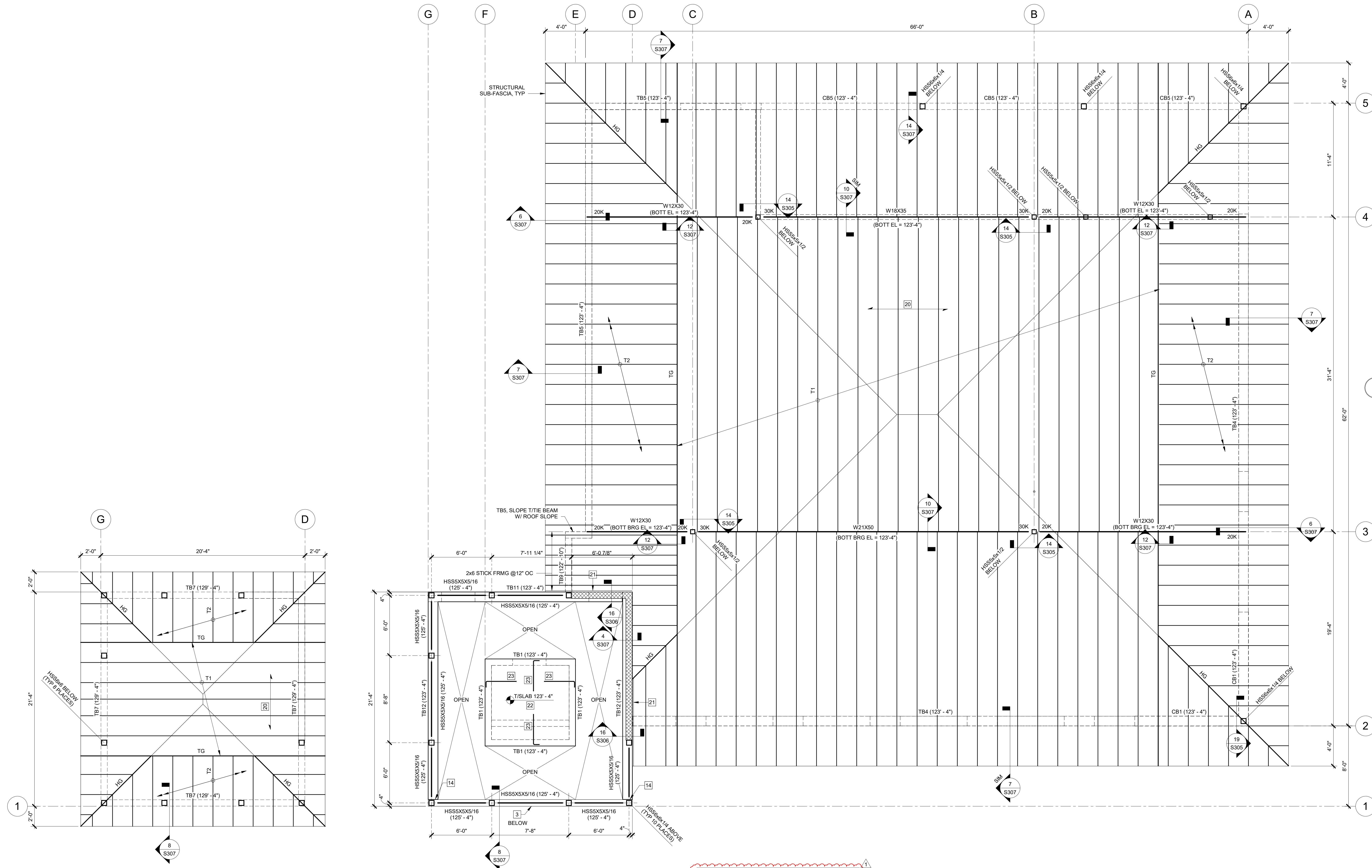
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REVISIONS		
MARK	DESCRIPTION	DATE
1	Permit comment response	10/14/24



2 TOWER ROOF FRAMING PLAN
S131 1/4" = 1'-0"

1 MAIN ROOF FRAMING PLAN
S131 1/4" = 1'-0"

ROOF TRUSSES ARE A DELAYED SUBMITTAL

SIMPSON STRONGTIE TRUSS TIE DOWN SCHEDULE			
MARK	CONNECTOR TYPE	CAPACITY	NOTES
[A]	HHETA16	2,120#	TYPICAL TIE DOWN UNLESS NOTED OTHERWISE
[B]	(2) VGT	7,185#	(2) PLY TRUSS MIN. VGT ON EA SIDE OF TRUSS TYPICAL HIP AND TRUSS GIRDER TIE DOWN

- ROOF FRAMING PLAN NOTES:**
- SEE SHEET S001 - S003 FOR STRUCTURAL NOTES AND DESIGN CRITERIA.
 - VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION OR FABRICATION. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES, TRUSS CONFIGURATIONS, FINISHES AND ADDITIONAL INFORMATION.
 - ALL SIMPSON STRONG TIE CONNECTORS TO BE HOT DIPPED GALVANIZED STEEL.
 - ANY SIMPSON STRONG TIE HANGER MAY HAVE A SLOPED SEAT AS REQUIRED TO MAINTAIN ROOF SLOPE SPECIFIED BY ARCHITECT.
 - ALL SIMPSON CONNECTORS MUST BE INSTALLED AS PER SIMPSON STRONG-TIE'S INSTRUCTIONS AND RECOMMENDATIONS. ALL TIE DOWNS ARE TO BE INSTALLED WITH THE MAXIMUM NUMBER OF FASTENERS POSSIBLE, AS DEFINED BY SIMPSON STRONG-TIE.
 - PROVIDE A MOISTURE BARRIER BETWEEN WOOD TRUSSES / RAFTERS AND CONCRETE / MASONRY PER ARCHITECTURAL SPECIFICATIONS.
 - ↔ DENOTES DECK SPAN DIRECTION.
 - ALL MASONRY (CMU) WALLS TO BE TYPE MW1. SEE SHEET S302 FOR CMU WALL SCHEDULE AND ADDITIONAL INFORMATION.
 - BEAM REACTIONS SHOWN ARE SERVICE LEVEL (ASD).

- ROOF LEGEND**
- CB# & TB# CONCRETE BEAM & TIE BEAM TYPE, SEE SHEET S2.1 FOR BEAM SCHEDULE
 - T1 PRE-ENGINEERED WOOD TRUSSES AT 2'-0" OC MAXIMUM SPACING. PROVIDE HOLDOWN [A] AT SUPPORTS, TYP UNO
 - T2 PRE-ENGINEERED WOOD JACK TRUSSES AT 2'-0" OC MAXIMUM SPACING. PROVIDE HOLDOWN [A] AT SUPPORTS, TYP UNO
 - HG PRE-ENGINEERED HIP TRUSS GIRDER. PROVIDE HOLDOWN [B] AT SUPPORTS, TYP UNO
 - TG PRE-ENGINEERED TRUSS GIRDER. PROVIDE HOLDOWN [B] AT SUPPORTS, TYP UNO
 - ▣ MASONRY (CMU) WALLS. SEE NOTE 8

KEYNOTES	
KEY	DESCRIPTION
3	8" THICK 4,000 PSI (NW 145 PCF) CONCRETE WALL
14	TIE BEAM HORIZONTAL REINFORCING TO HOOK AT FAR SIDE OF CONCRETE WALL
20	15/32" STRUCTURAL I OSB ROOF DECK. NAIL TO ALL ROOF SUPPORTS W/ 16d NAILS @ 6" OC AT INTERIOR SUPPORTS AND @ 6" OC AT EDGES. SEE 1/S307 FOR ADDITIONAL INFORMATION
21	2x6 CONT PT LEDGER. SEE 16/S306
22	8" THICK 4,000 PSI (NW 145 PCF) CONCRETE SLAB W/ #5@10" OC EACH WAY BOTTOM
23	#5@10" OC TOP x3'-0" W/ 90 DEGREE HOOK, TYP AROUND PERIMETER

COMM. NO.: 23FTM232
ISSUE DATE: 12.22.23
DRAWN BY: SEGRHE

**MAIN ROOF AND TOWER
ROOF FRAMING PLANS**

S131

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SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION: 5171 SANIBEL-CAPTIVA SANIBEL, FLORIDA 33957



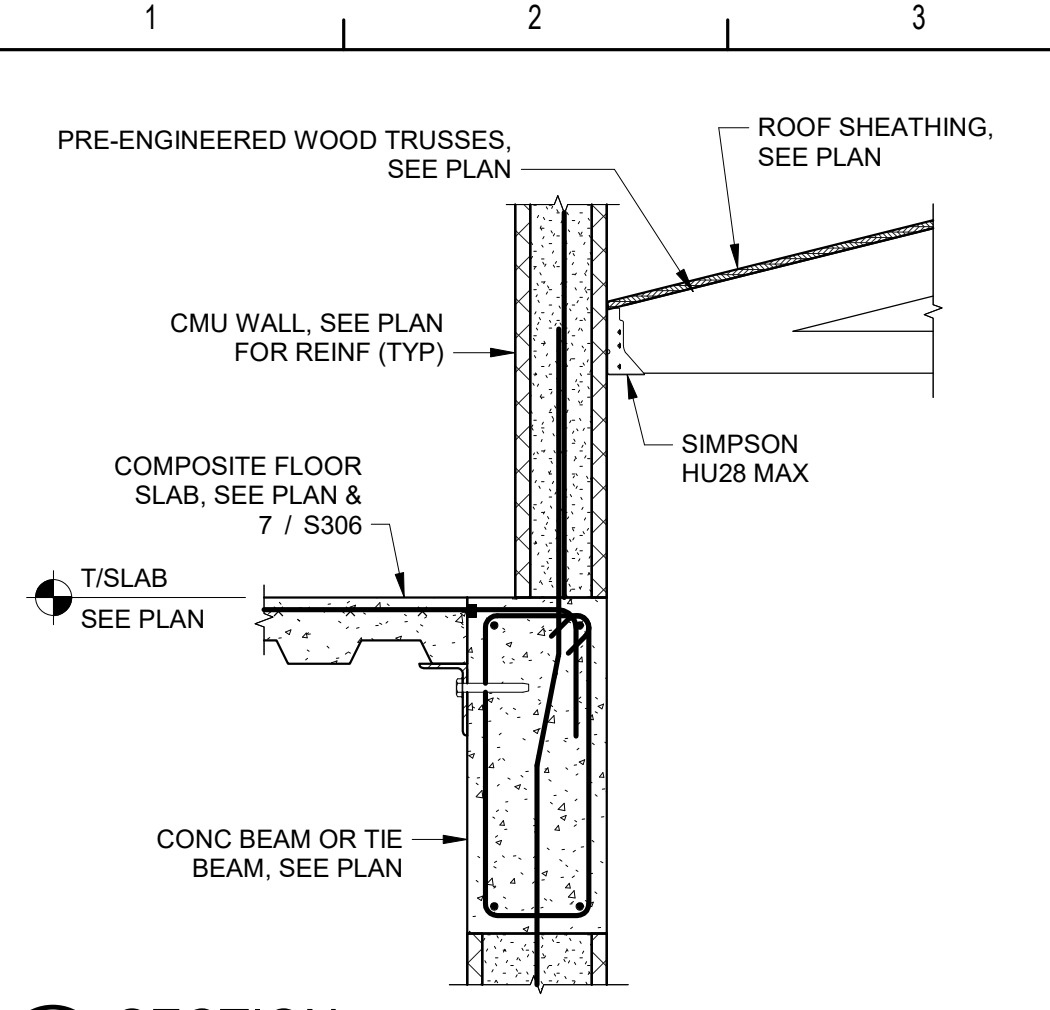
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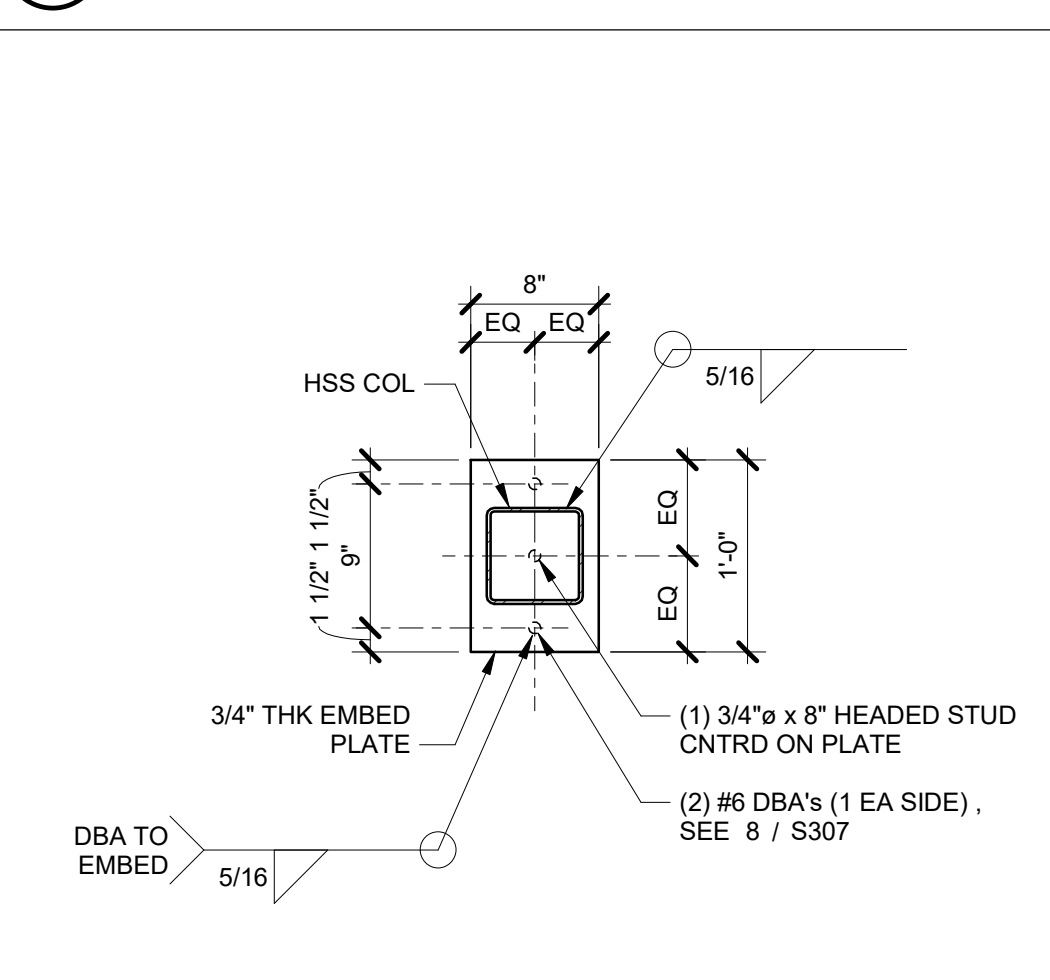
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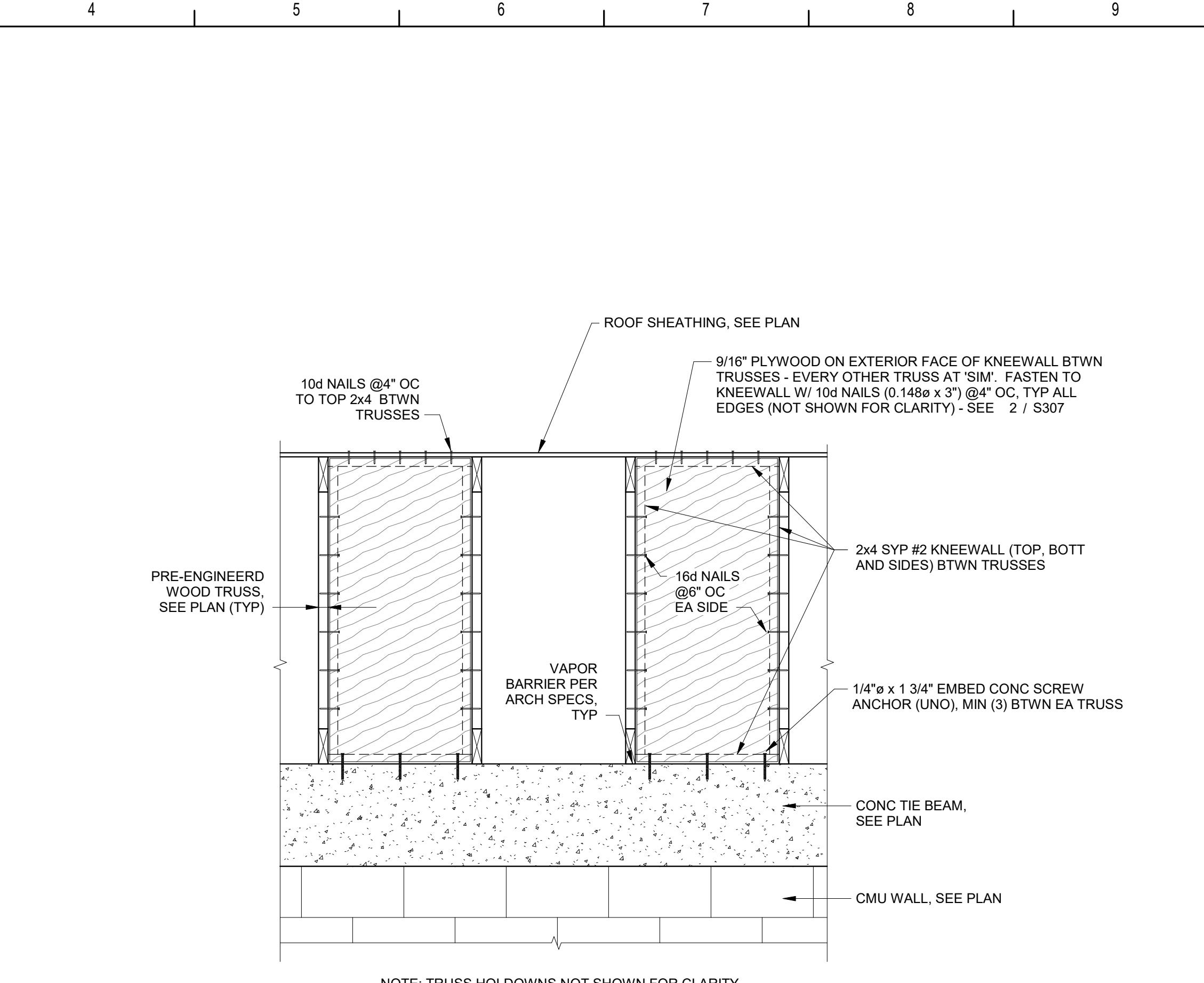
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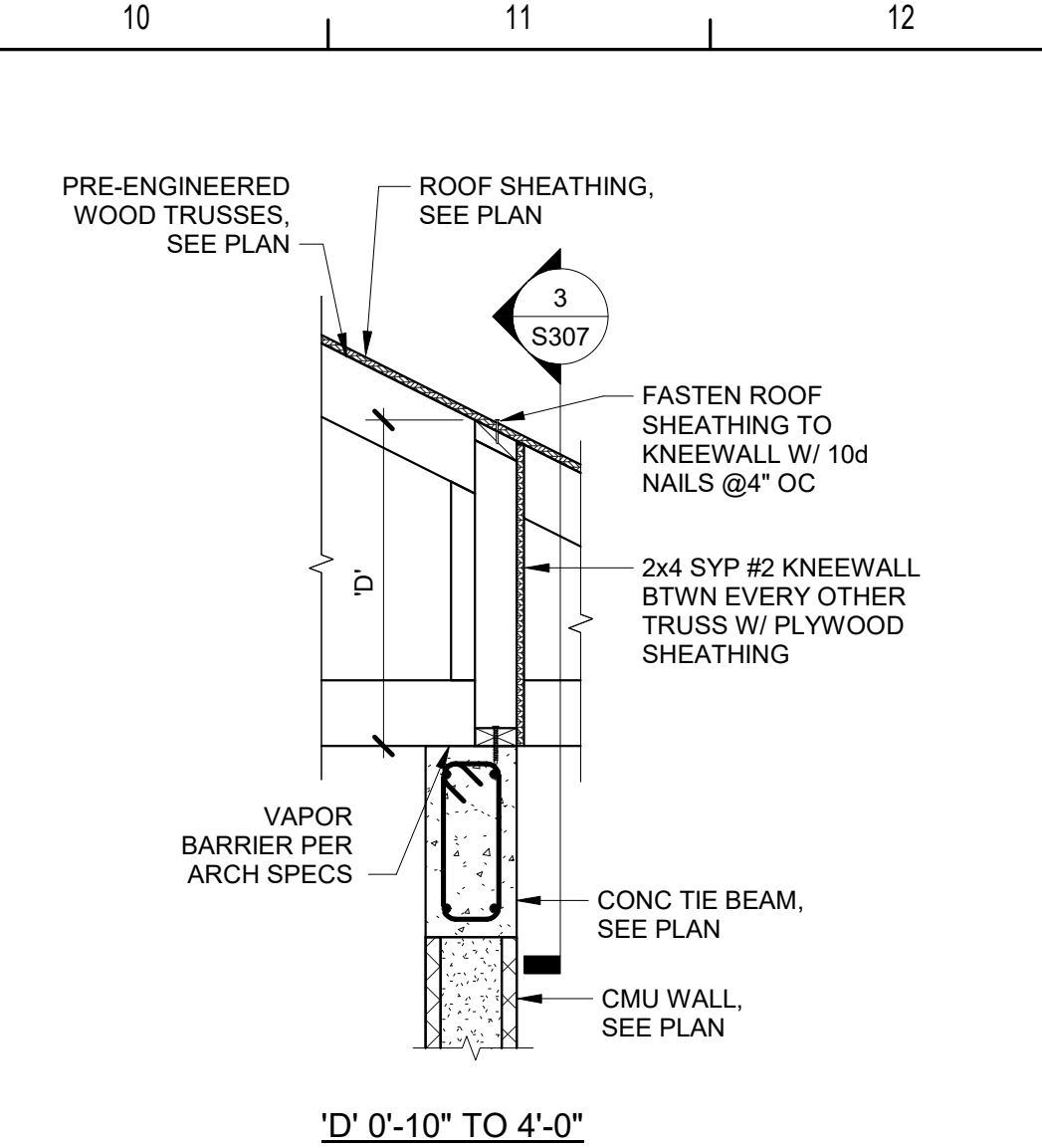
SECTION 4 S307 3/4" = 1'-0"



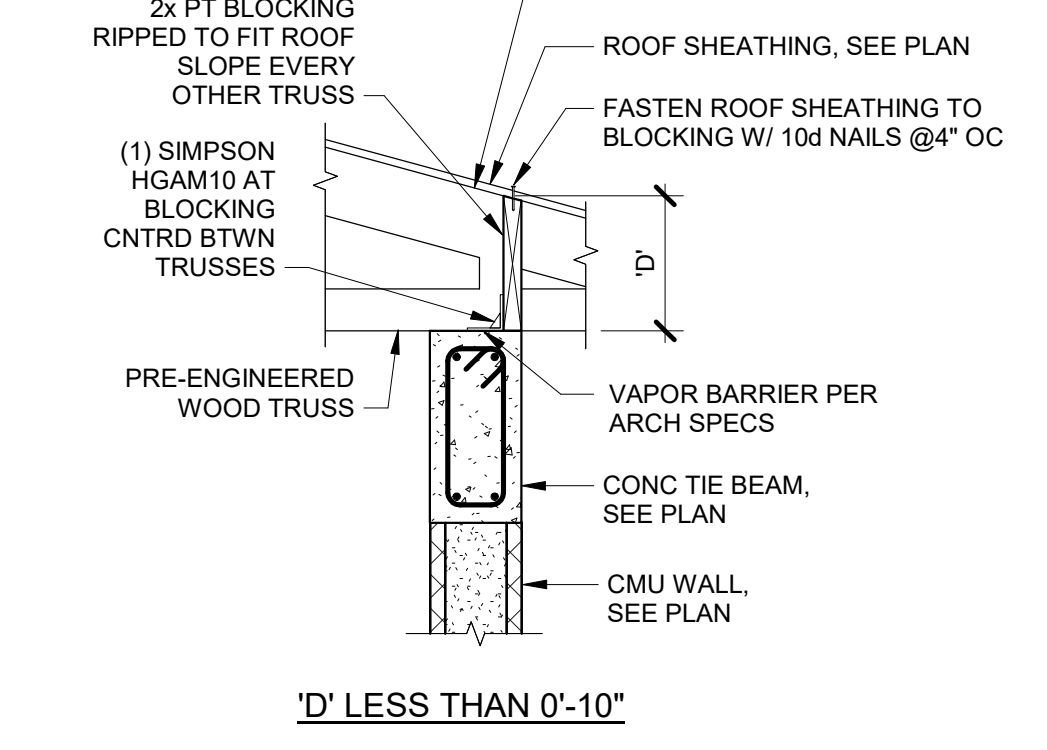
SECTION 5 S307 1" = 1'-0"



SECTION 3 S307 3/4" = 1'-0"



SECTION 2 S307 3/4" = 1'-0"



SECTION 2 S307 3/4" = 1'-0"

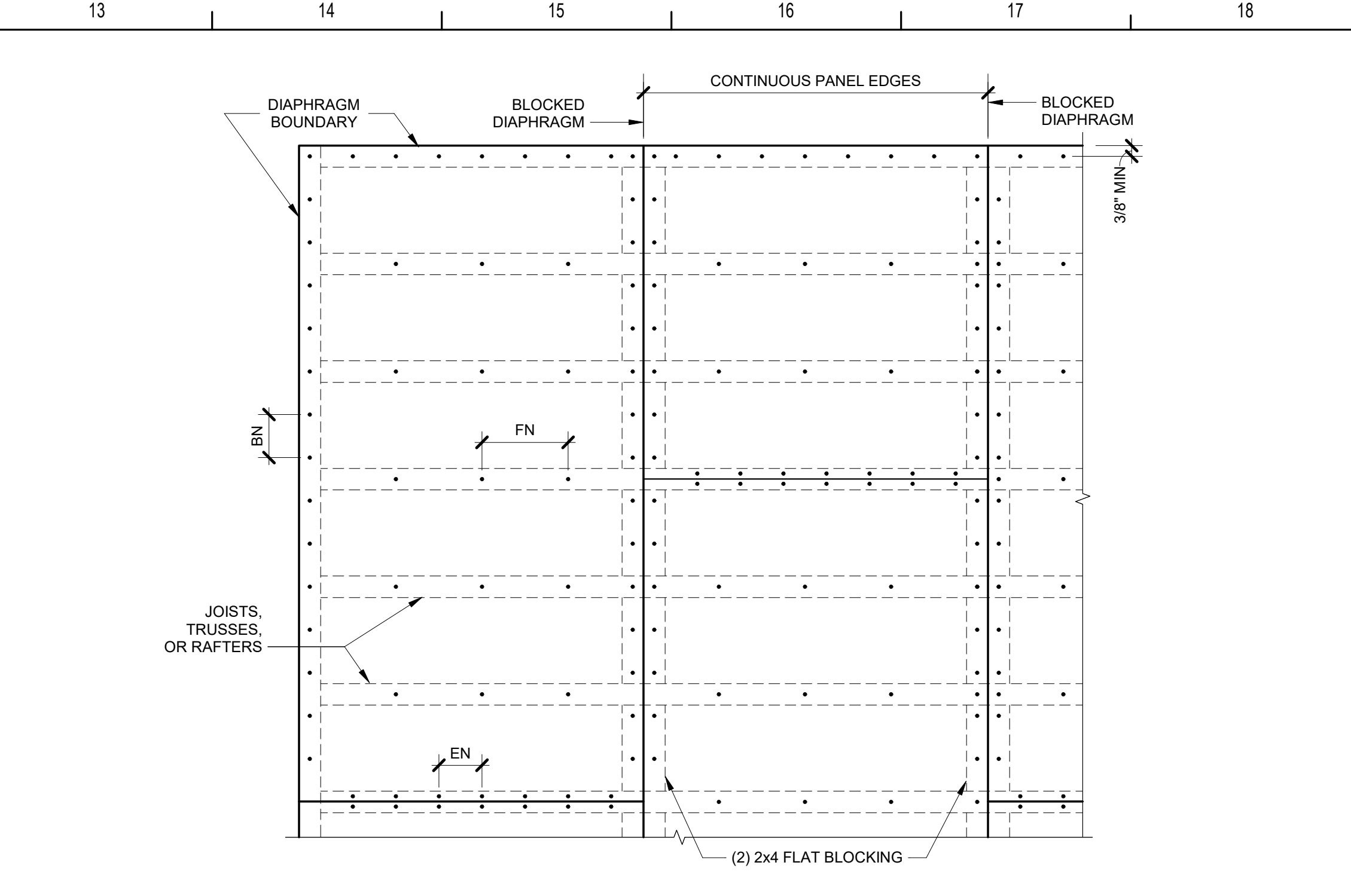
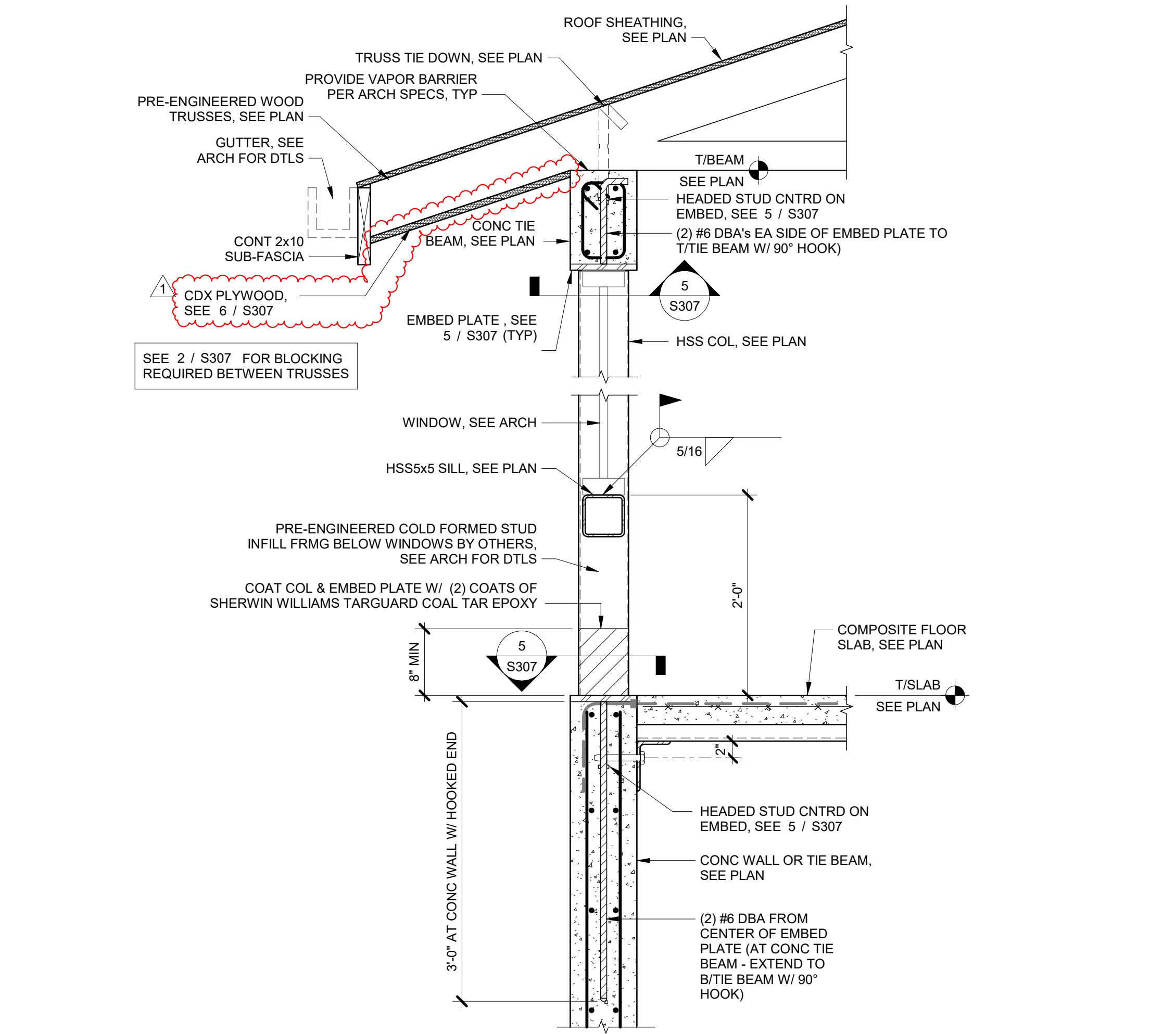


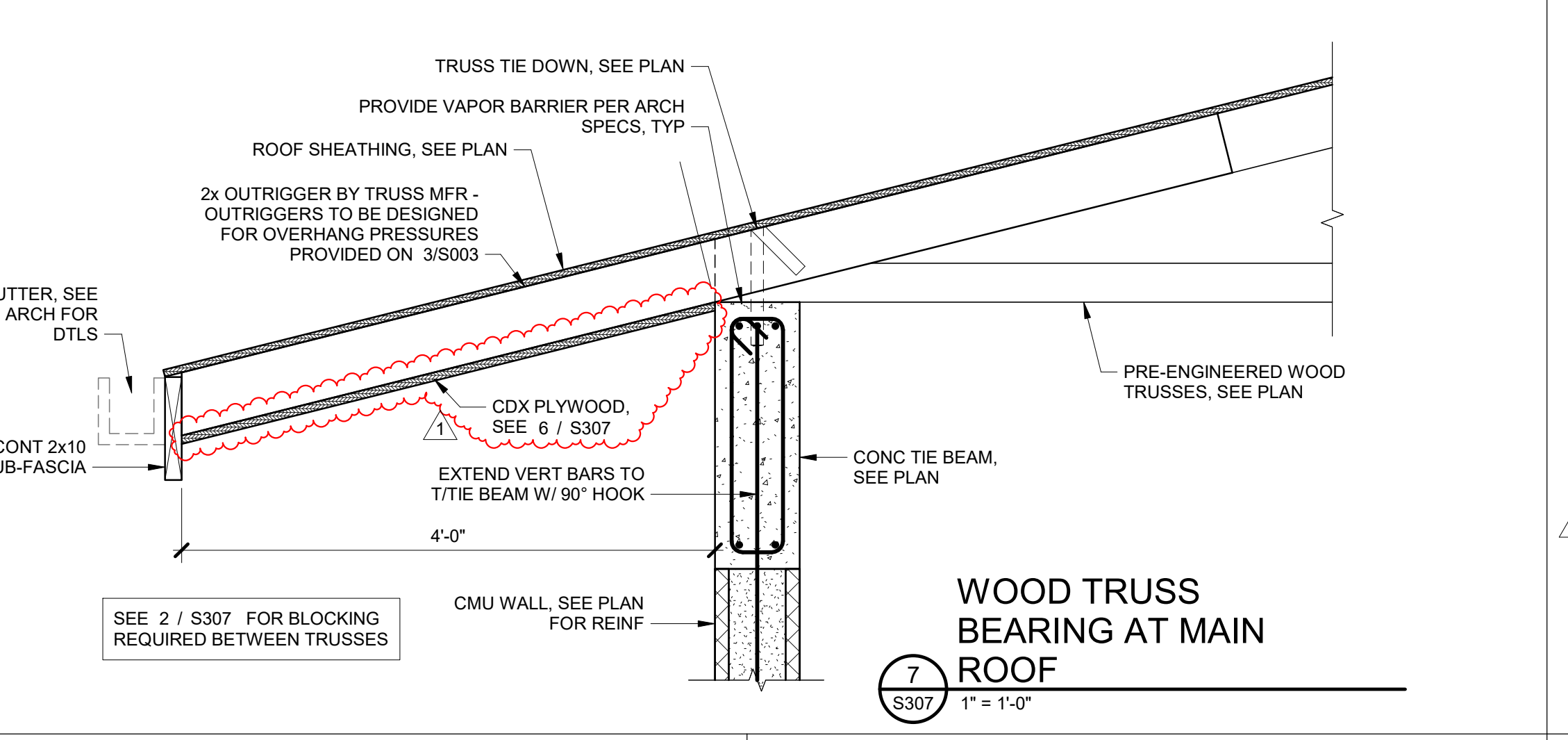
Table with 5 columns: MARK, BN, FN, EN, BLOCKED OR UNBLOCKED. Includes legend for boundary nail and field nail.

- NOTES: 1. AT DIAPHRAGM BOUNDARY, PROVIDE MINIMUM 2x6 #2 SYP CONTINUOUS W/ SIMPSON LSTA18 AT EACH SPLICE (ZMAX COATED). FASTEN 2x6 TO EACH FRAMING MEMBER W/ (2) 16d NAILS. (TYP UNO) 2. 16d NAIL SHALL BE 16d COMMON (0.162"x3.12") 3. 10d NAIL SHALL BE 10d COMMON (0.148"x3") 4. 9d NAIL SHALL BE 9d COMMON (0.131"x2.12") 5. FASTEN BLOCKING TOGETHER W/ (2) ROWS OF 16d NAILS @ 12"OC.

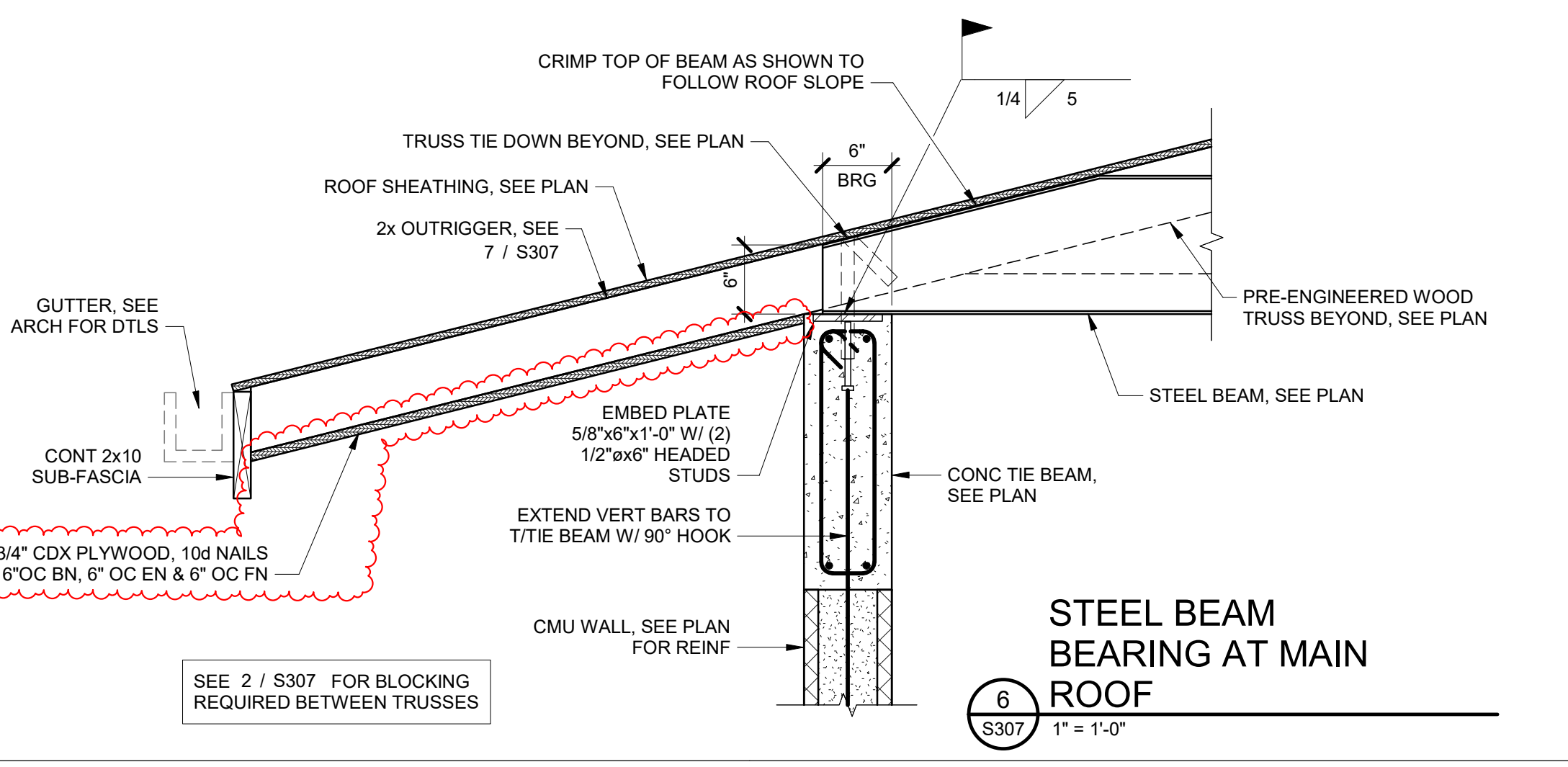
SECTION 1 S307 3/4" = 1'-0"



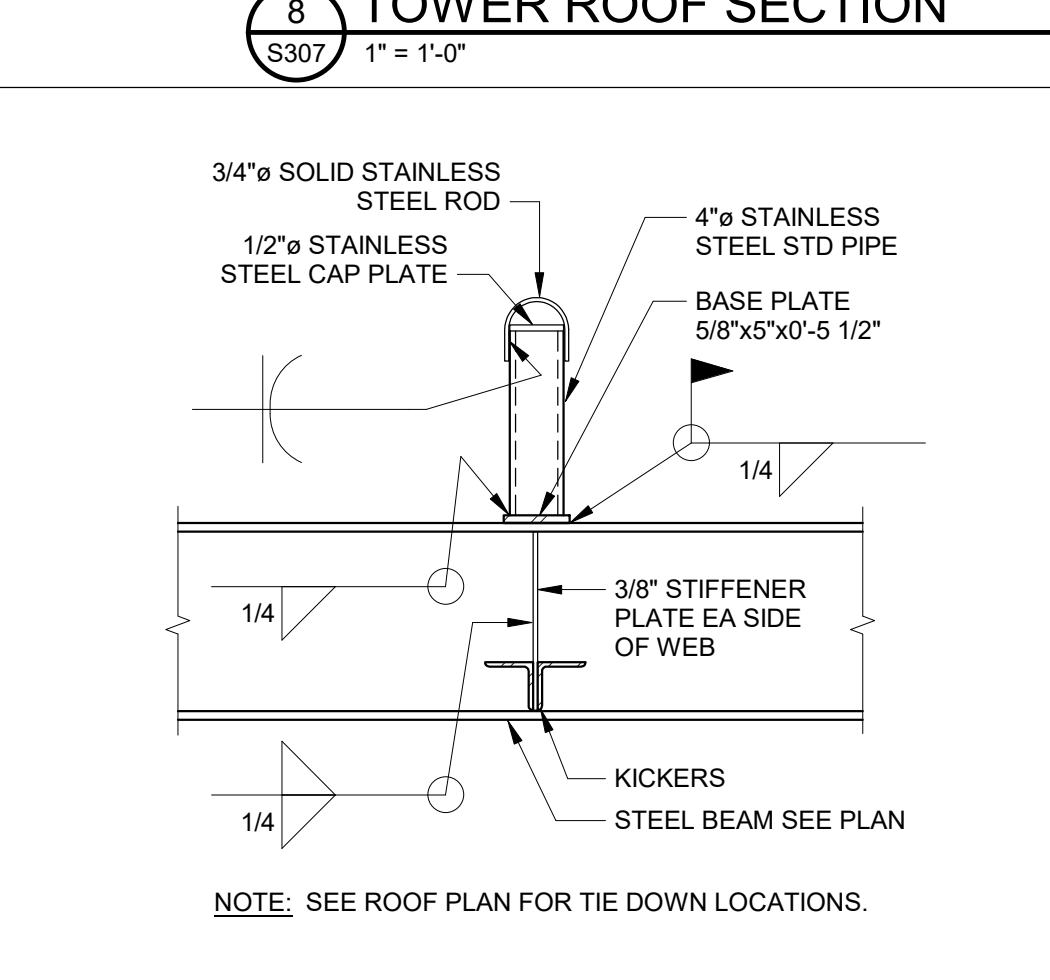
SECTION 8 S307 1" = 1'-0"



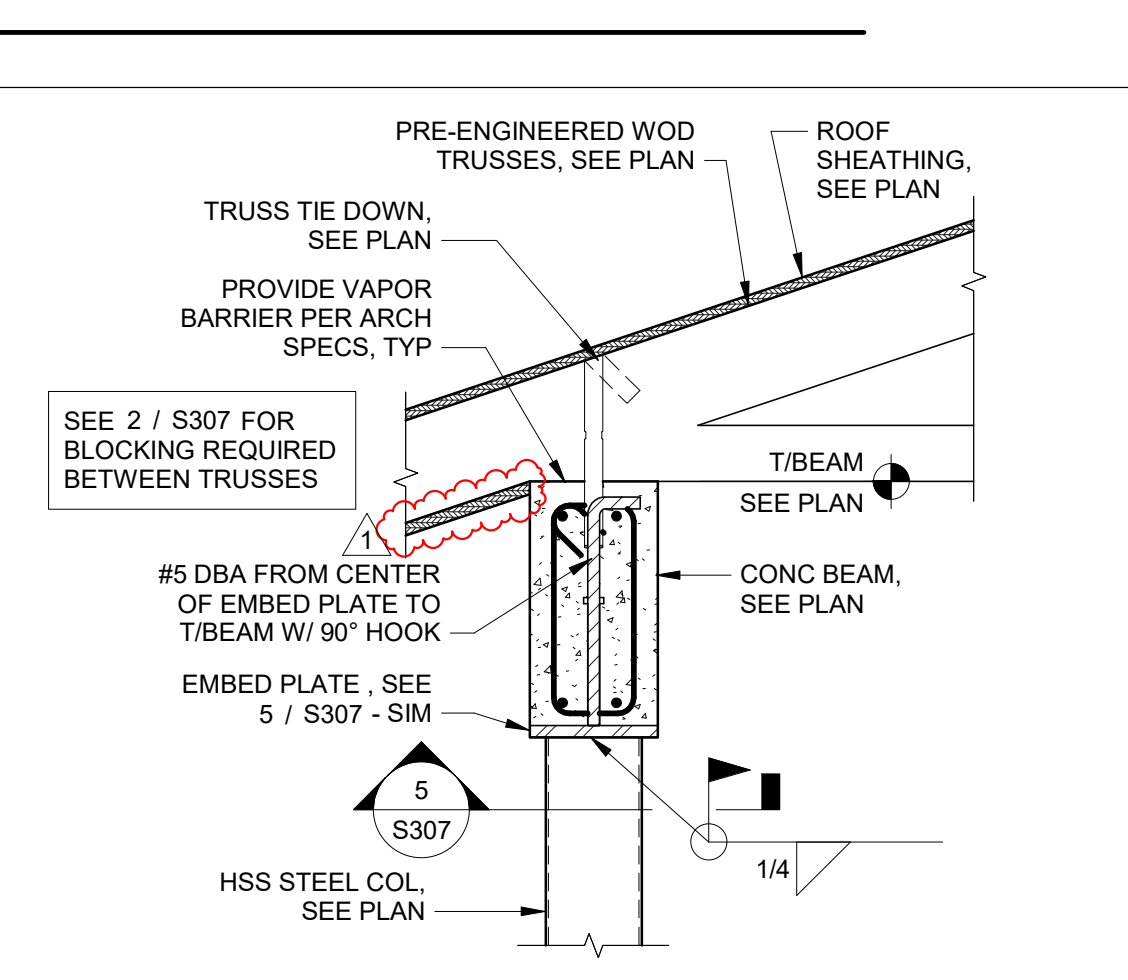
SECTION 7 S307 1" = 1'-0"



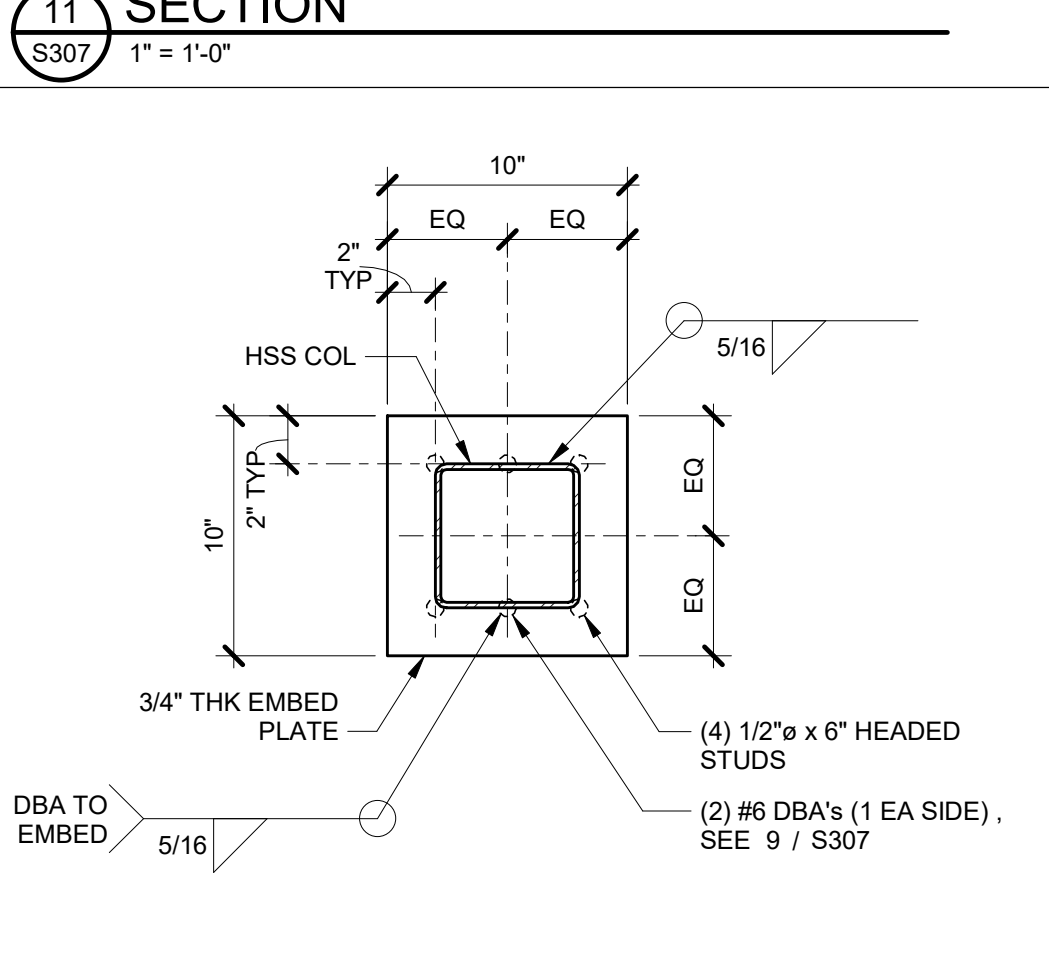
SECTION 6 S307 1" = 1'-0"



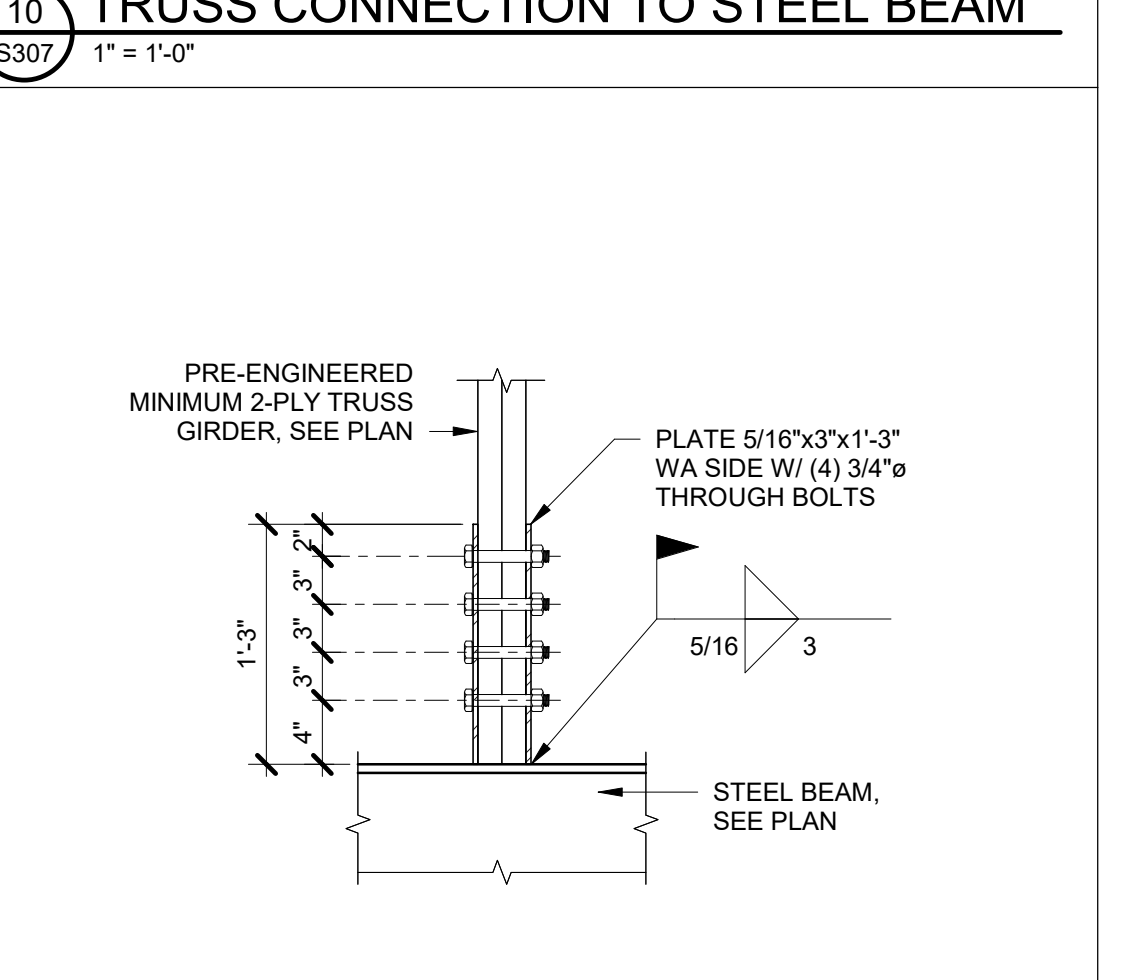
SECTION 15 S307 3/4" = 1'-0"



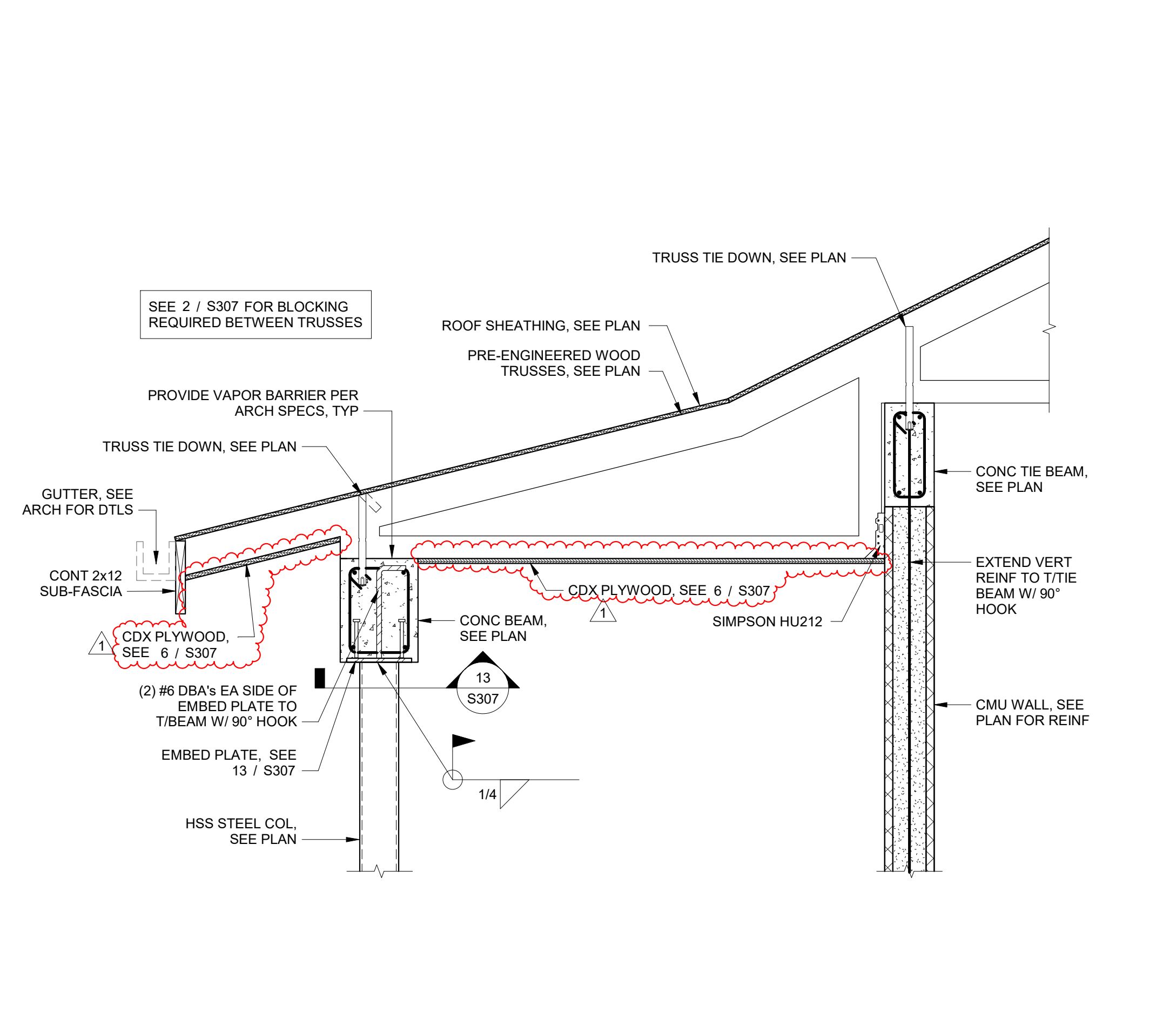
SECTION 14 S307 1" = 1'-0"



SECTION 13 S307 1 1/2" = 1'-0"



SECTION 12 S307 1" = 1'-0"



SECTION 9 S307 3/4" = 1'-0"

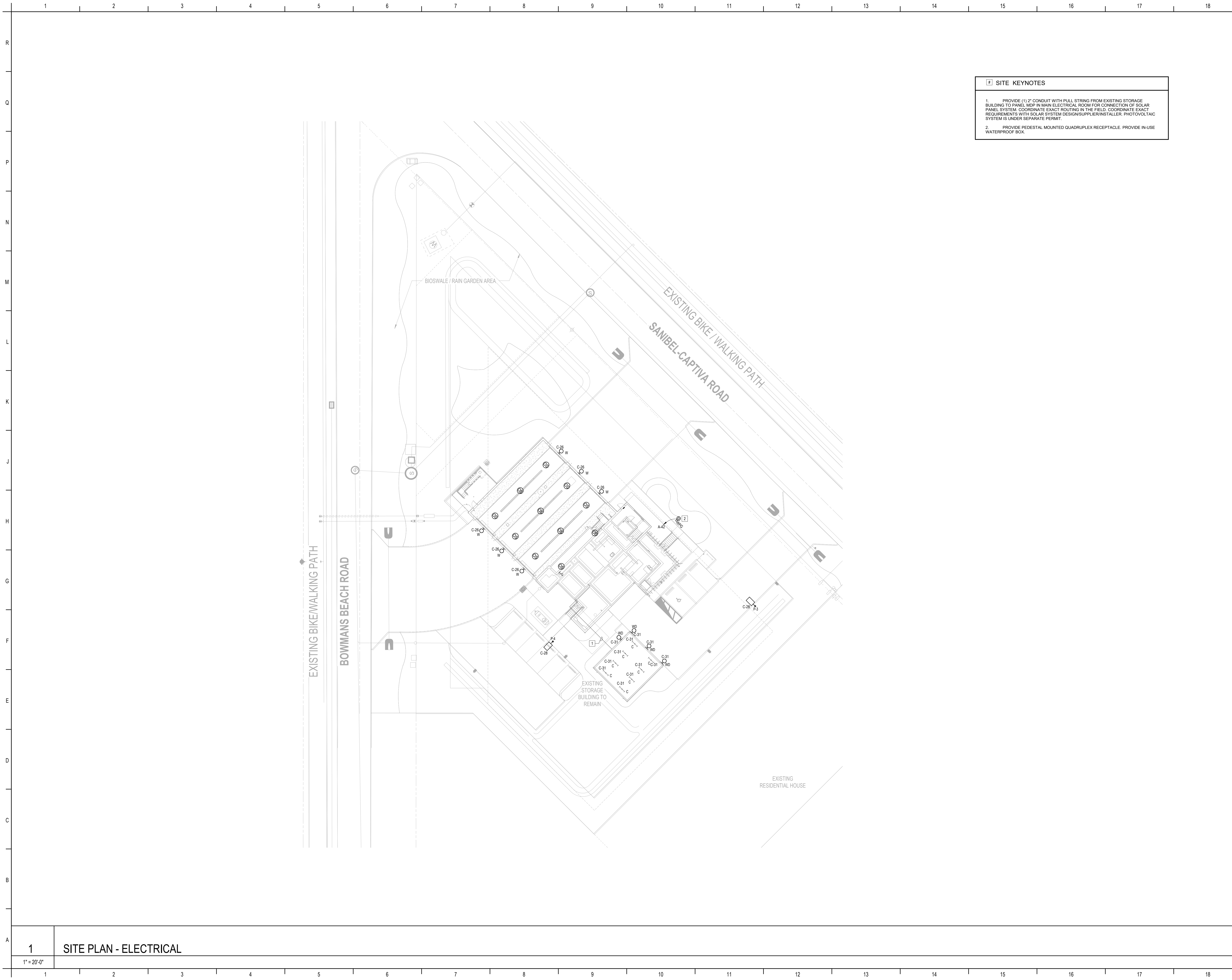
REVISIONS table with columns: MARK, DESCRIPTION, DATE.

COMM. NO.: 23FTM232 ISSUE DATE: 12.22.23 DRAWN BY: RHE

ROOF SECTIONS & DETAILS

S307

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- 1 SITE KEYNOTES**
1. PROVIDE (1) 2" CONDUIT WITH PULL STRING FROM EXISTING STORAGE BUILDING TO PANEL MDP IN MAIN ELECTRICAL ROOM FOR CONNECTION OF SOLAR PANEL SYSTEM. COORDINATE EXACT ROUTING IN THE FIELD. COORDINATE EXACT REQUIREMENTS WITH SOLAR SYSTEM DESIGNER/SUPPLIER/INSTALLER. PHOTOVOLTAIC SYSTEM IS UNDER SEPARATE PERMIT.
 2. PROVIDE PEDESTAL MOUNTED QUADRUPLEX RECEPTACLE. PROVIDE IN-USE WATERPROOF BOX.



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



9510 Corkscrew Palms Circle, Unit 1
Estero, FL 33928
voice (239) 208-4846

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HYUNGSUNG LEE, P.E.
9815 S.W. 40TH AVE
MIAMI, FL 33149
FL REG. NO. 16986

REVISIONS		
MARK	DESCRIPTION	DATE

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: GFS

SITE PLAN - ELECTRICAL

1 SITE PLAN - ELECTRICAL
1" = 20'-0"

2/14/2024 8:33:00 AM
Addendum 01/05/2024 Sanibel FS 172/19/00 FS 172_MEP_R02.1.dwg



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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HYUNGSUNG LINTSOS, P.E.
SITE ORLANDO, FL
NATE AND FL 32761
FL REG. NO. 16966

REVISIONS

MARK	DESCRIPTION	DATE

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: GFS

**SITE PLAN -
PHOTOMETRICS**

E011

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Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Luminaire Watts	Description
□	1	P-3	Single	5428	1.000	40	ECF-S-32L-365-WV-G2-3
□	1	P-4	Single	5637	1.000	40	ECF-S-32L-365-WV-G2-4
●	6	W	Single	2465	1.000	21.8	VCDSWH20LDD2030KFM-P
●	8	WD	Single	1199	1.000	10	VCDSWH12LDD330KFM-P

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
10' PAST PROPERTY LINE, At Grade	Illuminance	Fc	0.01	0.2	0.0	N.A.
DRIVE, At Grade	Illuminance	Fc	1.21	5.3	0.0	N.A.
PARKING, At Grade	Illuminance	Fc	1.51	5.8	0.1	15.10
PROPERTY LINE, At Grade	Illuminance	Fc	0.03	0.5	0.0	N.A.

- NOTES:
- CALCULATIONS SHOWN ARE INITIAL HORIZONTAL FOOTCANDLES, TAKEN AT GRADE
 - LUMINAIRES DEFINED AS SPECIFIED
 - LUMINAIRES PLACED IN SPECIFIED LOCATIONS
 - MOUNTING HEIGHT IS ALWAYS A.F.G. OR A.F.F. UNLESS NOTED
 - MOUNTING DETAILS TO BE CONFIRMED BY OTHERS

GENERAL SITE PHOTOMETRICS NOTES :

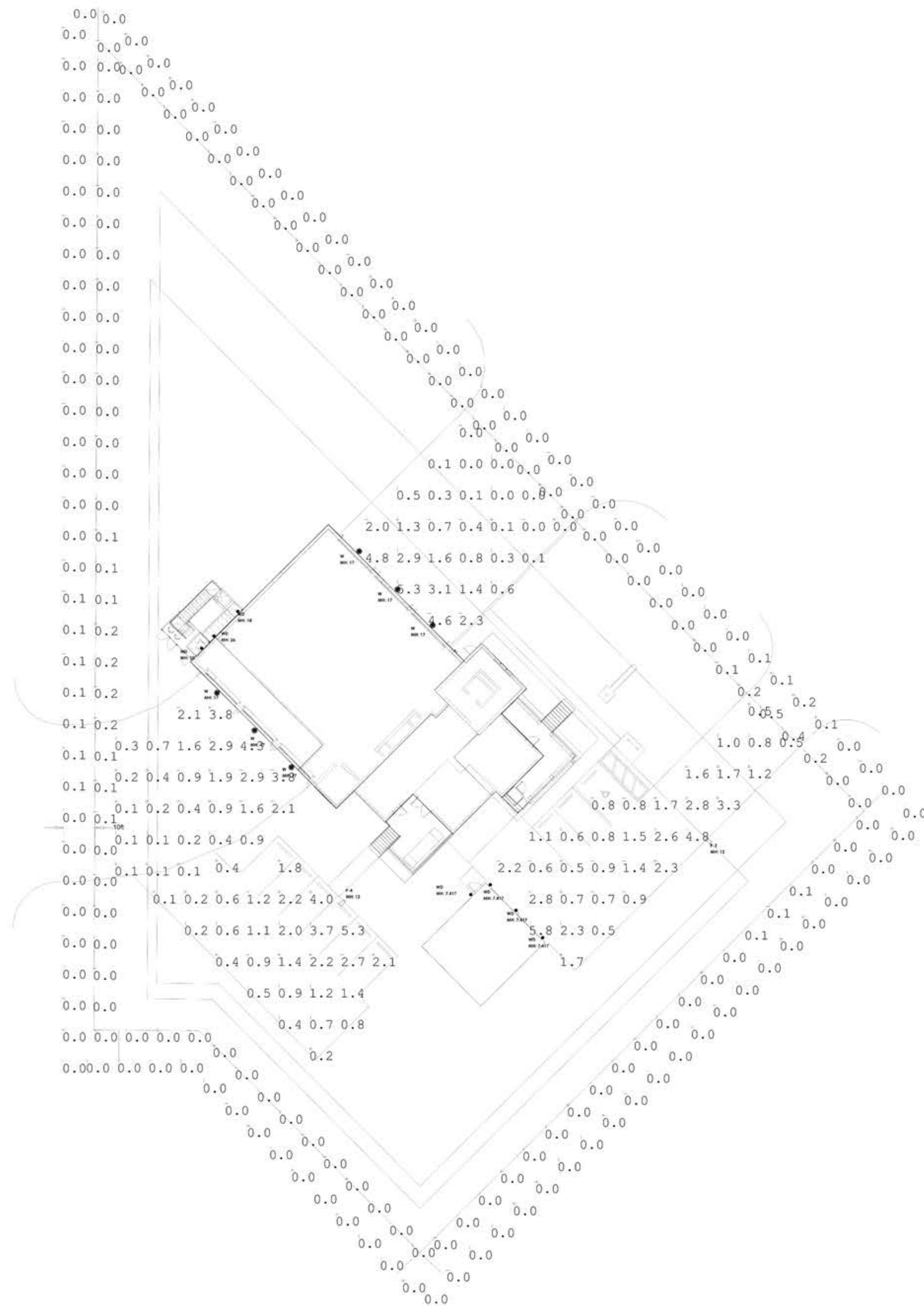
- ELECTRICAL CONTRACTOR IS REQUIRED TO PROVIDE SIGNED AND SEALED DRAWINGS STATING THAT THE POLES MEET THE REQUIRED WIND LOADING.
- LUMINAIRE MOUNTING HEIGHT SHALL BE AS INDICATED ON PLANS.
- CALCULATIONS ARE IN FOOT-CANDLES.
- CALCULATION POINTS ARE AS INDICATED ON CALCULATION SUMMARY UNDER CALCULATION PLANE HEIGHT.
- POSITION OF LUMINAIRES IS TO GIVE OPTIMAL LIGHT LEVEL IN AREAS ACCORDING TO IES RECOMMENDATIONS AND LIFE SAFETY STANDARDS.
- CONTRACTOR SHALL ENSURE SITE LIGHTING LOCATIONS DO NOT CONFLICT WITH ANY PROPOSED TREE LOCATIONS ON SITE. CONTRACTOR SHALL TRIM TREE BRANCHES THAT BLOCK SITE LIGHT FIXTURES AS NECESSARY TO ACHIEVE FULL LIGHT DISTRIBUTION.
- THIS PHOTOMETRIC IS ONLY FOR THE FIXTURES SPECIFIED AND INDICATED.
- ANY CHANGES WILL REQUIRE A NEW PHOTOMETRIC STUDY.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMPS			VOLTAGE	MOUNTING	NOTES
		LUMENS	WATTS	TEMP			
P-3	LED SITE HEAD, TYPE 3 DISTRIBUTION, 2000 LUMENS, 4000K, ARM MOUNT, MOUNT ON 12' AFG DIRECT EMBEDMENT ALUMINUM POLE GARCOO CAT# ECF-S-32L-365-G2-AR-3-UNV-FINISH W/#P72-ECF-SA-1-90	5400	40W	4000K	UNV	POLE	
P-4	LED SITE HEAD, TYPE 4 DISTRIBUTION, 2000 LUMENS, 4000K, ARM MOUNT, MOUNT ON 12' AFG DIRECT EMBEDMENT ALUMINUM POLE GARCOO CAT# ECF-S-32L-365-G2-AR-4-UNV-FINISH W/#P72-ECF-SA-1-90	5600	40W	4000K	UNV	POLE	
WD	LED FULL CUTOFF WALL SCONCE, 1200 LUMENS, 4000K, WET LOCATION LISTED, FINISH BY ARCHITECT CONTECH CAT# VCDSWH20LDD330KFM-FINISH / LDD330K	1200	10W	4000K	UNV	WALL	
W	LED FULL CUTOFF WALL SCONCE, 2400 LUMENS, 4000K, WET LOCATION LISTED, FINISH BY ARCHITECT CONTECH CAT# VCDSWH20LDD330KFM-FINISH / LDD330K	2400	22W	4000K	UNV	WALL	

GENERAL LIGHTING FIXTURE NOTES:

- IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
- ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.
- MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.
- PROVIDE DOCUMENTATION OF IESNA PHOTOMETRIC LM-79 TESTING PROCEDURES, LED LIFETIME LM-80 TESTING PROCEDURES, AND WARRANTY WITH SUBMITTAL.
- ALL LED LUMINAIRES SHALL COMPLY WITH LM79 AND LM80 STANDARDS.





SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:
5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957

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REVISIONS

MARK	DESCRIPTION	DATE

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: GFS

FIXTURES - PHOTOMETRICS

E012

100% CONSTRUCTION DOCUMENTS

Job Name: SANIBEL FIRE AND RESCUE STATION
Manufacturer: CONTECH
Model Number: VCD5WH12LD830KLG1-FINISH / LD830K
Type: **WD**

CONTECH LEVITON
DATE: _____ PROJECT: _____ TYPE: _____ CATALOG NO.: _____

VC SERIES | LED Vintage RLM: Warehouse Shade

ORDERING INFORMATION
Example Order: VCSLSA10L1P1630KLG1 - S

1. Shade Size	2. LED Series	Color Temp	3. Mounting	4. Finish*
VCD5WH12 - 12 in.	LD001 - 18W	27K / 3000K	FC - 10 Ft. Field Adj. Cord Pendant	W - Jet Black
VCD5WH16 - 16 in.	LD012 - 14W	30K / 3000K	FM - Flush Mount	G - Evergreen
VCD5WH20 - 20 in.	LD020 - 22W	30K / 3000K	LSM12 - 12 in. Stem Mount Pendant	P - Day White
	LD030 - 36W	40K / 4000K	LSM24 - 24 in. Stem Mount Pendant	S - Uncoated Glass
			LSM36 - 36 in. Stem Mount Pendant	COXXX - Custom Finish
			LSM48 - 48 in. Stem Mount Pendant	Specify R/L Number
			LSM60 - 60 in. Stem Mount Pendant	
			LSM72 - 72 in. Stem Mount Pendant	
			LSM84 - 84 in. Stem Mount Pendant	
			LSM96 - 96 in. Stem Mount Pendant	
			LSM108 - 108 in. Stem Mount Pendant	
			LSM120 - 120 in. Stem Mount Pendant	
			LSM144 - 144 in. Stem Mount Pendant	
			LSM168 - 168 in. Stem Mount Pendant	
			LSM192 - 192 in. Stem Mount Pendant	
			LSM216 - 216 in. Stem Mount Pendant	
			LSM240 - 240 in. Stem Mount Pendant	
			LSM264 - 264 in. Stem Mount Pendant	
			LSM288 - 288 in. Stem Mount Pendant	
			LSM312 - 312 in. Stem Mount Pendant	
			LSM336 - 336 in. Stem Mount Pendant	
			LSM360 - 360 in. Stem Mount Pendant	
			LSM384 - 384 in. Stem Mount Pendant	
			LSM408 - 408 in. Stem Mount Pendant	
			LSM432 - 432 in. Stem Mount Pendant	
			LSM456 - 456 in. Stem Mount Pendant	
			LSM480 - 480 in. Stem Mount Pendant	
			LSM504 - 504 in. Stem Mount Pendant	
			LSM528 - 528 in. Stem Mount Pendant	
			LSM552 - 552 in. Stem Mount Pendant	
			LSM576 - 576 in. Stem Mount Pendant	
			LSM600 - 600 in. Stem Mount Pendant	
			LSM624 - 624 in. Stem Mount Pendant	
			LSM648 - 648 in. Stem Mount Pendant	
			LSM672 - 672 in. Stem Mount Pendant	
			LSM696 - 696 in. Stem Mount Pendant	
			LSM720 - 720 in. Stem Mount Pendant	
			LSM744 - 744 in. Stem Mount Pendant	
			LSM768 - 768 in. Stem Mount Pendant	
			LSM792 - 792 in. Stem Mount Pendant	
			LSM816 - 816 in. Stem Mount Pendant	
			LSM840 - 840 in. Stem Mount Pendant	
			LSM864 - 864 in. Stem Mount Pendant	
			LSM888 - 888 in. Stem Mount Pendant	
			LSM912 - 912 in. Stem Mount Pendant	
			LSM936 - 936 in. Stem Mount Pendant	
			LSM960 - 960 in. Stem Mount Pendant	
			LSM984 - 984 in. Stem Mount Pendant	
			LSM1008 - 1008 in. Stem Mount Pendant	
			LSM1032 - 1032 in. Stem Mount Pendant	
			LSM1056 - 1056 in. Stem Mount Pendant	
			LSM1080 - 1080 in. Stem Mount Pendant	
			LSM1104 - 1104 in. Stem Mount Pendant	
			LSM1128 - 1128 in. Stem Mount Pendant	
			LSM1152 - 1152 in. Stem Mount Pendant	
			LSM1176 - 1176 in. Stem Mount Pendant	
			LSM1200 - 1200 in. Stem Mount Pendant	
			LSM1224 - 1224 in. Stem Mount Pendant	
			LSM1248 - 1248 in. Stem Mount Pendant	
			LSM1272 - 1272 in. Stem Mount Pendant	
			LSM1296 - 1296 in. Stem Mount Pendant	
			LSM1320 - 1320 in. Stem Mount Pendant	
			LSM1344 - 1344 in. Stem Mount Pendant	
			LSM1368 - 1368 in. Stem Mount Pendant	
			LSM1392 - 1392 in. Stem Mount Pendant	
			LSM1416 - 1416 in. Stem Mount Pendant	
			LSM1440 - 1440 in. Stem Mount Pendant	
			LSM1464 - 1464 in. Stem Mount Pendant	
			LSM1488 - 1488 in. Stem Mount Pendant	
			LSM1512 - 1512 in. Stem Mount Pendant	
			LSM1536 - 1536 in. Stem Mount Pendant	
			LSM1560 - 1560 in. Stem Mount Pendant	
			LSM1584 - 1584 in. Stem Mount Pendant	
			LSM1608 - 1608 in. Stem Mount Pendant	
			LSM1632 - 1632 in. Stem Mount Pendant	
			LSM1656 - 1656 in. Stem Mount Pendant	
			LSM1680 - 1680 in. Stem Mount Pendant	
			LSM1704 - 1704 in. Stem Mount Pendant	
			LSM1728 - 1728 in. Stem Mount Pendant	
			LSM1752 - 1752 in. Stem Mount Pendant	
			LSM1776 - 1776 in. Stem Mount Pendant	
			LSM1800 - 1800 in. Stem Mount Pendant	
			LSM1824 - 1824 in. Stem Mount Pendant	
			LSM1848 - 1848 in. Stem Mount Pendant	
			LSM1872 - 1872 in. Stem Mount Pendant	
			LSM1896 - 1896 in. Stem Mount Pendant	
			LSM1920 - 1920 in. Stem Mount Pendant	
			LSM1944 - 1944 in. Stem Mount Pendant	
			LSM1968 - 1968 in. Stem Mount Pendant	
			LSM1992 - 1992 in. Stem Mount Pendant	
			LSM2016 - 2016 in. Stem Mount Pendant	
			LSM2040 - 2040 in. Stem Mount Pendant	
			LSM2064 - 2064 in. Stem Mount Pendant	
			LSM2088 - 2088 in. Stem Mount Pendant	
			LSM2112 - 2112 in. Stem Mount Pendant	
			LSM2136 - 2136 in. Stem Mount Pendant	
			LSM2160 - 2160 in. Stem Mount Pendant	
			LSM2184 - 2184 in. Stem Mount Pendant	
			LSM2208 - 2208 in. Stem Mount Pendant	
			LSM2232 - 2232 in. Stem Mount Pendant	
			LSM2256 - 2256 in. Stem Mount Pendant	
			LSM2280 - 2280 in. Stem Mount Pendant	
			LSM2304 - 2304 in. Stem Mount Pendant	
			LSM2328 - 2328 in. Stem Mount Pendant	
			LSM2352 - 2352 in. Stem Mount Pendant	
			LSM2376 - 2376 in. Stem Mount Pendant	
			LSM2400 - 2400 in. Stem Mount Pendant	
			LSM2424 - 2424 in. Stem Mount Pendant	
			LSM2448 - 2448 in. Stem Mount Pendant	
			LSM2472 - 2472 in. Stem Mount Pendant	
			LSM2496 - 2496 in. Stem Mount Pendant	
			LSM2520 - 2520 in. Stem Mount Pendant	
			LSM2544 - 2544 in. Stem Mount Pendant	
			LSM2568 - 2568 in. Stem Mount Pendant	
			LSM2592 - 2592 in. Stem Mount Pendant	
			LSM2616 - 2616 in. Stem Mount Pendant	
			LSM2640 - 2640 in. Stem Mount Pendant	
			LSM2664 - 2664 in. Stem Mount Pendant	
			LSM2688 - 2688 in. Stem Mount Pendant	
			LSM2712 - 2712 in. Stem Mount Pendant	
			LSM2736 - 2736 in. Stem Mount Pendant	
			LSM2760 - 2760 in. Stem Mount Pendant	
			LSM2784 - 2784 in. Stem Mount Pendant	
			LSM2808 - 2808 in. Stem Mount Pendant	
			LSM2832 - 2832 in. Stem Mount Pendant	
			LSM2856 - 2856 in. Stem Mount Pendant	
			LSM2880 - 2880 in. Stem Mount Pendant	
			LSM2904 - 2904 in. Stem Mount Pendant	
			LSM2928 - 2928 in. Stem Mount Pendant	
			LSM2952 - 2952 in. Stem Mount Pendant	
			LSM2976 - 2976 in. Stem Mount Pendant	
			LSM3000 - 3000 in. Stem Mount Pendant	

WATTAGE	10W	14W	18W	22W	36W
LUMEN OUTPUT (3000K)	1220 Lm	1650 Lm	2100 Lm	2500 Lm	3700 Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K				
COLOR CONSISTENCY	3-Step MacAdam Ellipse Tolerance, 3 SDCM				
INPUT POWER	120-277VAC 60Hz				
DIMMING TYPE	0-10V Dimming				
AMBIENT OPERATING TEMP	-30°C (-22°F) to 45°C (113°F)				
LISTINGS	cCSAs Listed to UL and CSA Standards; Suitable for Dry, Damp or Wet locations*				
WARRANTY	Five (5) year replacement after date of purchase				
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance				

CONTECH LIGHTING | 720 LANESBORO ROAD | NORTHBROOK, ILLINOIS 60062 | PHONE: 847.559.5500 | www.contechlighting.com
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Prepared By: SESCO - Ft Myers | www.sescolighting.com
December 15, 2023
153
Megan Sweesy | msweesy@sescolighting.com
Index Y

Job Name: SANIBEL FIRE AND RESCUE STATION
Manufacturer: CONTECH
Model Number: VCD5WH12LD830KLG1-FINISH / LD830K
Type: **WD**

CONTECH LEVITON
DATE: _____ PROJECT: _____ TYPE: _____ CATALOG NO.: _____

VC SERIES | LED Vintage RLM: Warehouse Shade

ORDERING INFORMATION
Example Order: VCSLSA10L1P1630KLG1 - S

1. Shade Size	2. LED Series	Color Temp	3. Mounting	4. Finish*
VCD5WH12 - 12 in.	LD001 - 18W	27K / 3000K	FC - 10 Ft. Field Adj. Cord Pendant	W - Jet Black
VCD5WH16 - 16 in.	LD012 - 14W	30K / 3000K	FM - Flush Mount	G - Evergreen
VCD5WH20 - 20 in.	LD020 - 22W	30K / 3000K	LSM12 - 12 in. Stem Mount Pendant	P - Day White
	LD030 - 36W	40K / 4000K	LSM24 - 24 in. Stem Mount Pendant	S - Uncoated Glass
			LSM36 - 36 in. Stem Mount Pendant	COXXX - Custom Finish
			LSM48 - 48 in. Stem Mount Pendant	Specify R/L Number
			LSM60 - 60 in. Stem Mount Pendant	
			LSM72 - 72 in. Stem Mount Pendant	
			LSM84 - 84 in. Stem Mount Pendant	
			LSM96 - 96 in. Stem Mount Pendant	
			LSM108 - 108 in. Stem Mount Pendant	
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			LSM144 - 144 in. Stem Mount Pendant	
			LSM168 - 168 in. Stem Mount Pendant	
			LSM192 - 192 in. Stem Mount Pendant	
			LSM216 - 216 in. Stem Mount Pendant	
			LSM240 - 240 in. Stem Mount Pendant	
			LSM264 - 264 in. Stem Mount Pendant	
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			LSM312 - 312 in. Stem Mount Pendant	
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			LSM360 - 360 in. Stem Mount Pendant	
			LSM384 - 384 in. Stem Mount Pendant	
			LSM408 - 408 in. Stem Mount Pendant	
			LSM432 - 432 in. Stem Mount Pendant	
			LSM456 - 456 in. Stem Mount Pendant	
			LSM480 - 480 in. Stem Mount Pendant	
			LSM504 - 504 in. Stem Mount Pendant	
			LSM528 - 528 in. Stem Mount Pendant	
			LSM552 - 552 in. Stem Mount Pendant	
			LSM576 - 576 in. Stem Mount Pendant	
			LSM600 - 600 in. Stem Mount Pendant	
			LSM624 - 624 in. Stem Mount Pendant	
			LSM648 - 648 in. Stem Mount Pendant	
			LSM672 - 672 in. Stem Mount Pendant	
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			LSM1056 - 1056 in. Stem Mount Pendant	
			LSM1080 - 1080 in. Stem Mount Pendant	
			LSM1104 - 1104 in. Stem Mount Pendant	
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			LSM1152 - 1152 in. Stem Mount Pendant	
			LSM1176 - 1176 in. Stem Mount Pendant	
			LSM1200 - 1200 in. Stem Mount Pendant	
			LSM1224 - 1224 in. Stem Mount Pendant	
			LSM1248 - 1248 in. Stem Mount Pendant	
			LSM1272 - 1272 in. Stem Mount Pendant	
			LSM1296 - 1296 in. Stem Mount Pendant	
			LSM1320 - 1320 in. Stem Mount Pendant	
			LSM1344 - 1344 in. Stem Mount Pendant	
			LSM1368 - 1368 in. Stem Mount Pendant	
			LSM1392 - 1392 in. Stem Mount Pendant	
			LSM1416 - 1416 in. Stem Mount Pendant	
			LSM1440 - 1440 in. Stem Mount Pendant	
			LSM1464 - 1464 in. Stem Mount Pendant	
			LSM1488 - 1488 in. Stem Mount Pendant	



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

**SANIBEL FIRE AND RESCUE
STATION 172**

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



9510 Corkscrew Palms
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KYRANOS G. LANTZOS, P.E.
0010-0000000000
NATE ANDY J. HAY
NATE ANDY J. HAY
FL REG. NO. 1000000000

REVISIONS

MARK	DESCRIPTION	DATE
1	Parent Comment Response	05.13.24

COMM. NO.: 2023820
ISSUE DATE: 01.05.2024
DRAWN BY: GFS

**SITE PLAN - BUILDING
ATTACHED LIGHTING**

E013

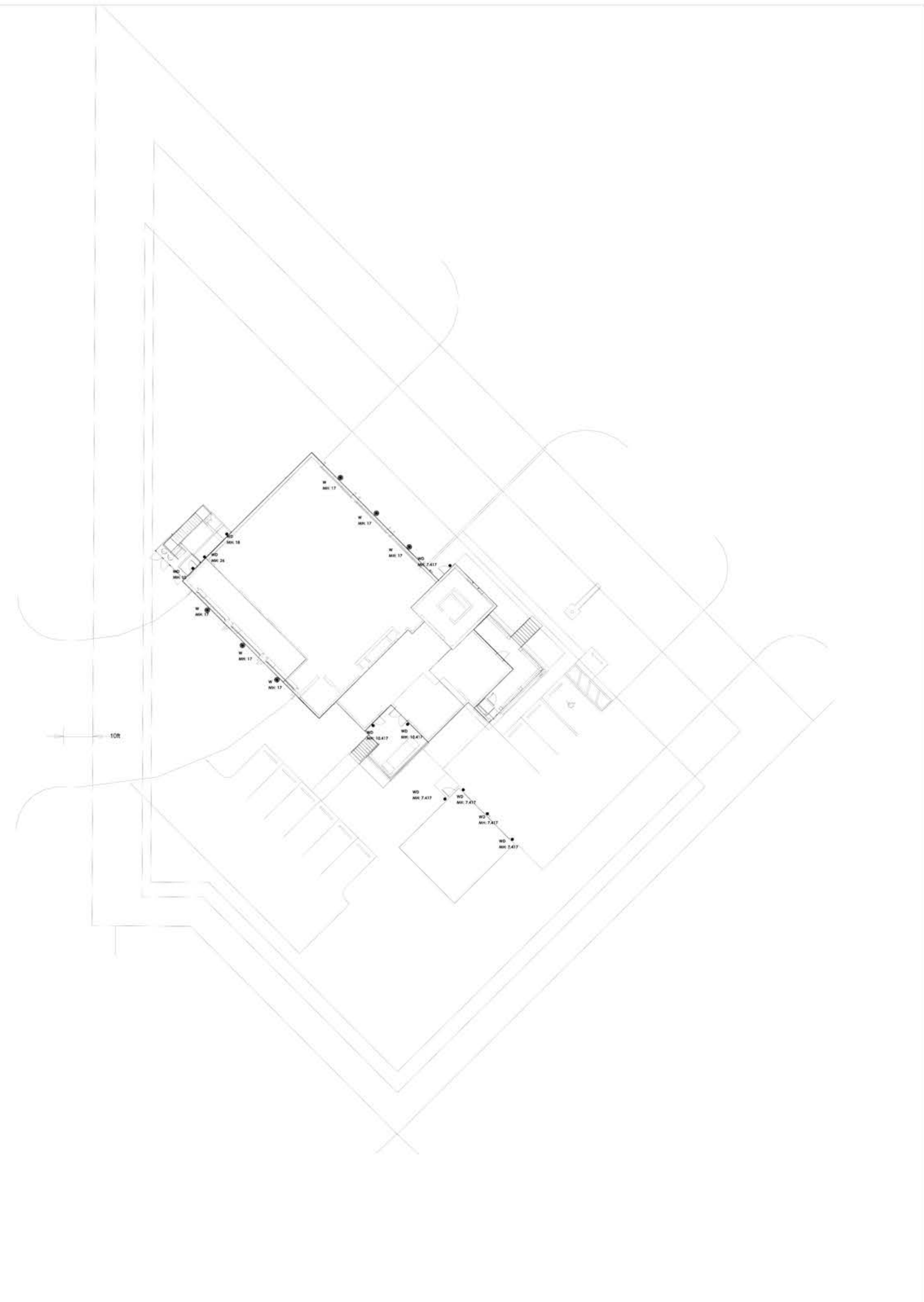
100% CONSTRUCTION DOCUMENTS

Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Luminaire Watts	Total Watts	Description
●	6	W	Single	2465	1.000	21.8	130.8	VCDSWH20LDD2030KFM-P
●	8	WD	Single	1199	1.000	10	80	VCDSWH12LDD830KFM-P

LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	LAMPS			VOLTAGE	MOUNTING	NOTES
		LUMENS	WATTS	TEMP			
WD	LED FULL CUTOFF WALL SCONCE, 1200 LUMENS, 4000K, NET LOCATION LISTED, FINISH BY ARCHITECT CONTECH CAT# VCDSWH12LDD830KLN1-FINISH / LDD830K	1200	10W	4000K	UNY	WALL	BUG RATING: B1-U0-G0
W	LED FULL CUTOFF WALL SCONCE, 2400 LUMENS, 4000K, NET LOCATION LISTED, FINISH BY ARCHITECT CONTECH CAT# VCDSWH20LDD2030KLN2-FINISH / LDD2030K	2400	22W	4000K	UNY	WALL	BUG RATING: B1-U0-G0

GENERAL LIGHTING FIXTURE NOTES:

- IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICATE.
- ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.
- MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.
- PROVIDE DOCUMENTATION OF IESNA PHOTOMETRIC LM-79 TESTING PROCEDURES, LED LIFETIME LM-80 TESTING PROCEDURES, AND WARRANTY WITH SUBMITTAL.
- ALL LED LUMINAIRES SHALL COMPLY WITH LM79 AND LM80 STANDARDS.



1 SITE PLAN - BUILDING ATTACHED LIGHTING

1" = 20'-0"



SANIBEL FIRE & RESCUE DISTRICT
2351 PALM RIDGE ROAD, SANIBEL, FLORIDA 33957

SANIBEL FIRE AND RESCUE STATION 172

PROJECT LOCATION:

5171 SANIBEL-CAPTIVA ROAD
SANIBEL, FLORIDA 33957



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Branch Panel: MDP																			
LOCATION: ELECTRICAL 110																			
SUPPLY FROM: VOLTS: 120/208 Vwye																			
PHASES: 3																			
MOUNTING: SURFACE																			
ENCLOSURE: NEMA 1																			
A.I.C. RATING: 100A MAINS TYPE: MCB MAINS RATING: 800A																			
CKT	NOTES	CIRCUIT DESCRIPTION	TRIP	POLES	Ø	N	G	C	A	B	C	Ø	N	G	POLES	TRIP	CIRCUIT DESCRIPTION	NOTES	CKT
1		PANEL A	225 A	3	1	1	*	*	21.07	26.06					3	400 A	PANEL M		2
3									22.59	26.13									4
5											24.19	23.39							6
7		PANEL B	225 A	3	*	*	*	*	13	8.33					3	100 A	PANEL C		8
9									15.1	9.02									10
11											10.75	9.25							12
13																			14
15																			16
17																			18
19																			20
21																			22
23																			24
25		PV SYSTEM	60 A	3	Ø5	Ø10	1"	0	0						3	30 A	SPD		26
27									0	0									28
29									0	0									30
Total Load:									69.04 kVA	72.84 kVA	67.58 kVA								
Total Amps:									577 A	609 A	563 A								

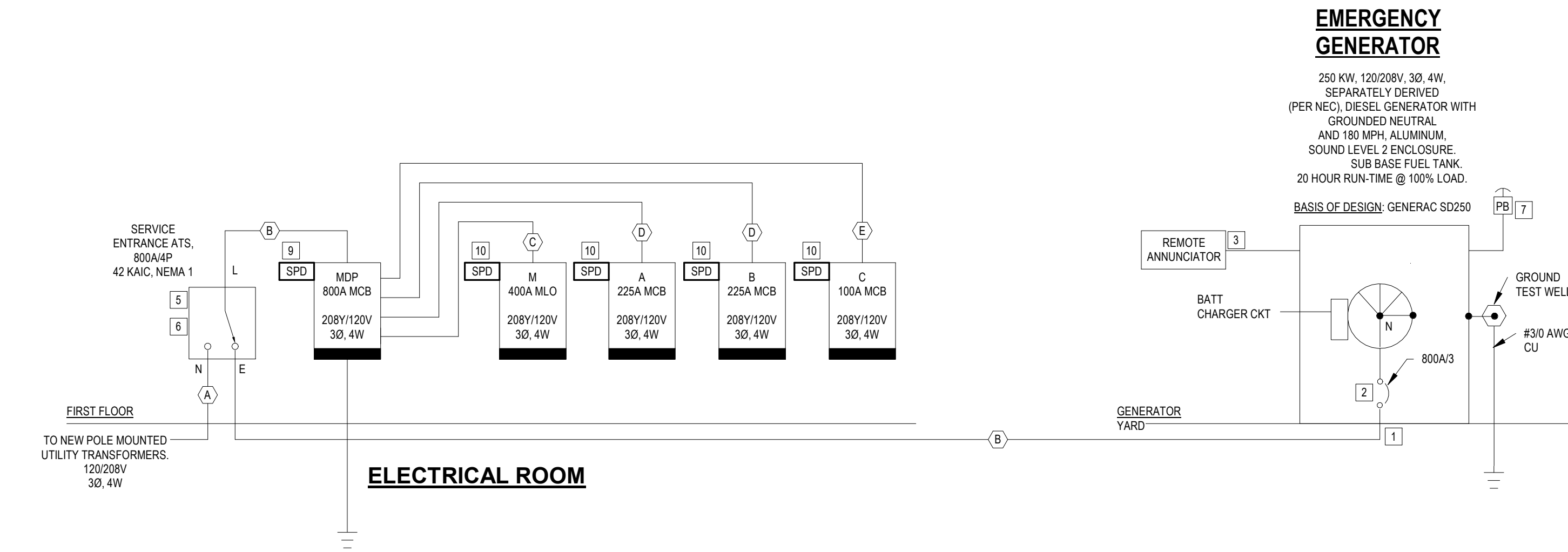
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	126.75 kVA	100.00%	126.75 kVA	
Lighting - Dwelling Unit	0.21 kVA	100.00%	0.21 kVA	Total Conn. Load: 209.45 kVA
Motor	21.58 kVA	117.00%	25.69 kVA	Total Est. Demand: 155.66 kVA
Other	1.46 kVA	100.00%	1.46 kVA	Total Conn.: 581 A
Receptacle	49.26 kVA	60.10%	29.63 kVA	Total Est. Demand: 543 A
Lighting	8.43 kVA	125.00%	10.54 kVA	
LTG	1.57 kVA	100.00%	1.57 kVA	

NOTE LEGEND:
 * REFER TO POWER RISER FOR FEEDER WIRE AND CONDUIT SIZES
 G = GFCI TYPE BREAKER
 A = AFCI TYPE BREAKER
 ST = SHUNT TRIP BREAKER
 RL = RED LOCKABLE BREAKER
 C = EXISTING BREAKER
 LSI = LSI ADJUSTABLE TRIP BREAKER

- ALL SINGLE POLE 15 & 20 AMP CIRCUITS SHALL BE PROVIDED WITH (2) #12 AWG CU, #12 CU GND IN 3/4" C. UNLESS NOTED OTHERWISE.
 * PROVIDE GROUND BUS & NEUTRAL BUS.
 * PROVIDE TYPE WRITTEN DIRECTORY.
 * PANEL SHALL BE FULLY RATED
 * REFER TO POWER RISER FOR CONDUIT AND WIRE SIZES

ELECTRICAL CONDUCTOR SCHEDULE

TYPE	CAPACITY	CONDUCTORS	MATERIAL	CONDUIT
(A)	800 AMP	3 SETS OF (4) #300kcmil	CU	3"
(B)	800 AMP	3 SETS OF (4) #300kcmil, #2/0 GND	CU	3"
(C)	400 AMP	3 SETS OF (4) #301, #3 GND	CU	2"
(D)	225 AMP	(4) #4/0, #4 GND	CU	2-1/2"
(E)	100 AMP	(4) #3, #8 GND	CU	1-1/2"



- KEYNOTES:**
- PROVIDE 1-1/4" CONDUIT FROM GENERATOR TO ATS FOR CONTROL WIRING.
 - GENERATOR SHALL INCLUDE ELECTRONIC, 100% RATED, LSI ADJUSTABLE, CIRCUIT BREAKER MOUNTED INSIDE THE GENERATOR ENCLOSURE.
 - PROVIDE 1" AND CONTROL WIRING FOR GENERATOR REMOTE ANNUNCIATOR. FINAL LOCATION OF ANNUNCIATOR SHALL BE COORDINATED WITH OWNER.
 - PROVIDE WEATHER-PROOF GLASS-BREAK PUSH BUTTON ON EXTERIOR WALL OF ELECTRICAL ROOM TO SHUNT TRIP MAIN CIRCUIT BREAKER OF MDP. MOUNT AT 60" AFS.
 - SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH. TRANSFER SWITCH TRANSFER LOADS TO THE GENERATOR WITHIN 10 SECONDS.
 - PROVIDE TRANSFER SWITCH WITH SHORT TIME RATING.
 - PROVIDE WEATHER-PROOF BREAK-GLASS PUSH BUTTON FOR REMOTE SHUT OFF OF GENERATOR. COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH IN.
 - PROVIDE WEATHERPROOF REMOTE PUSH BUTTON FOR REMOTE SHUT OFF OF GENERATOR. REFER TO FLOOR PLANS FOR PROPOSED LOCATION.
 - PROVIDE SURGE PROTECTIVE DEVICE. SHALL BE POWER LOGICS PQS200 OR APPROVED EQUAL.
 - PROVIDE SURGE PROTECTIVE DEVICE. SHALL BE POWER LOGICS PQM100 OR APPROVED EQUAL.

- GENERAL NOTES:**
- BASIS OF DESIGN FOR POWER DISTRIBUTION EQUIPMENT IS SQUARE-D. IF CONTRACTOR SUBMITS APPROVED ALTERNATES, CONTRACTOR SHALL VERIFY EQUIPMENT DIMENSIONS MEET NEC WORKING SPACE AND DEDICATED SPACES CLEARANCES PER NEC.
 - PROVIDE FIELD MARKING OF THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE EQUIPMENT PER NEC 110.24. FIELD MARKING SHALL BE LEGIBLE AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
 - PERFORM SHORT-CIRCUIT AND COORDINATION STUDY. SET THE FIELD ADJUSTABLE CIRCUIT BREAKERS TRIP RANGES. ELECTRICAL CONTRACTOR SHALL HIRE THE MANUFACTURER OF THE POWER DISTRIBUTION SYSTEM TO SET THE CURRENT CURVES ON THE MAIN CIRCUIT BREAKER AND ASSOCIATED BRANCH CIRCUIT BREAKER FOR THE SWITCHBOARDS & PANELBOARDS SO THAT THEY ARE SELECTIVELY COORDINATED WITH EACH OTHER. THE INTERRUPTING RATING OF ALL ELECTRICAL EQUIPMENTS SHALL BE BASED ON THE DATA RESULTS FROM THE SHORT CIRCUIT & COORDINATION STUDY.
 - COORDINATE LOCATION OF ANY REQUIRED METERING EQUIPMENT WITH LOCAL POWER UTILITY.
 - GENERATOR IS UNDER SEPARATE PERMIT.
 - PHOTOVOLTAIC SYSTEM IS UNDER SEPARATE PERMIT.

1 RISER DIAGRAM - ELECTRICAL

N/A

COMM. NO.: 2023820
 ISSUE DATE: 01.05.2024
 DRAWN BY: GFS

RISER- ELECTRICAL