

**Project:** **OAHS Multi-Use Room Building**  
**Project No. 2-2022-02-22-01**  
 Orcutt Academy High School  
 610 Pinal Ave, Orcutt, CA 93455

**Owner:** Orcutt Union School District  
 500 Dyer Street  
 Orcutt, CA 93455

**Architect:** 19six Architects  
 560 Higuera Street, Suite C  
 San Luis Obispo, CA 93401

**Construction Manager:** TELACU Construction Management  
 604 N. Eckhoff Street  
 Orange, CA 92868

**BID ADDENDUM 06**

**Revision:** **May 18, 2022**

*Note: The following revisions and clarifications to the Bid Documents (plans and specifications) shall become a part of the Contract Documents upon award of Bid. All Bidders are required to incorporate all necessary changes, additions, or deductions into their proposals.*

*In case of conflict between Bid Documents and this Addendum, this Addendum shall govern. Bidder shall acknowledge receipt of this Addendum on the Bid Form as noted in the Instruction to Bidders, failure to do so may subject Bidder to disqualification.*

**Volume II – Technical Specifications and Reports**

1. Refer to **Addendum 04 by 19-6 Architects** which is attached hereto

**Volume III – Bid Set Drawings**

1. Refer to **Addendum 04 by 19-6 Architects** which is attached hereto

**Pre-Bid RFIs:**

1. See attached responses to Pre-Bid RFIs #13-17.

Prepared by,

TELACU Construction Management

**Attachments:**

1. Addendum 04 by 19-6 Architects - Orcutt Academy MUR dated May 13, 2022
2. Pre-Bid RFI Responses #13-#17 dated May 18, 2022

## ADDENDUM NO. 04

Project: Orcutt Union School District  
 Orcutt Academy High School  
**Multi-Use Room Building**

19six No. 20179.01  
 DSA App. No.: 03-121912 File No.: N/A  
 Bid No.: ###

Date: May 13, 2022

To all bidders submitting proposals for the above captioned project. This Addendum is hereby included in the Contract Documents to the same extent as though it were originally included therein. The following items modify, add to, delete from, or explain the drawings and/or specifications. The contents of this Addendum shall take precedence over the original specifications and plans.

### SPECIFICATIONS

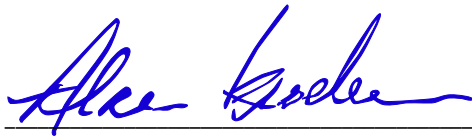
- Item #1:** **Acoustical Wall Panels.** Revise Specifications Table of Contents to include section 09 48 10 Sound Absorptive Wall Panels. Add specification section 09 48 10 Sound Absorptive Wall Panels to Specifications. See revised page 2 of specifications section 00 00 03 and added specification section 09 48 10.
- Item #2:** **Gymnasium Equipment.** Revise Gymnasium Equipment specifications. See revised specification section 11 49 10.
- Item #3:** **Gymnasium Protection Accessories.** Revise Specifications Table of Contents to include section 11 66 23 Gymnasium Protection Specialties. Add specifications for Gymnasium Protection Specialties. See revised page 3 of specifications section 00 00 03 and added specification section 11 66 23.

### DRAWINGS

- Item #4:** **Landscaping.** Revise landscaping for existing open field. See revised sheet L-101. Revise planting specifications. See revised sheet L-401.
- Item #5:** **Roofing.** Add callout for single ply roofing system on Roof Plan, sheet A-221. Revise roofing system details on sheet A-702 and A-703. See revised sheets A-221, A-702, A-703.
- Item #6:** **Tackboard.** Install tackboard on all exposed wall surface in Classroom 115. See revised sheet A-605.

**ATTACHMENTS:**

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Alan Kroeker

C-22474

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## SECTION 09 48 10 – SOUND ABSORPTIVE WALL AND CEILING PANELS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes: Sound absorptive wall panels.
- B. Related Sections include the following:
  - 1. Division 9 Section "Gypsum Board" for gypsum board substrate at walls and ceilings.

#### 1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product data including certified laboratory test reports and other data required to show compliance with these specifications.
- B. Samples: Submit 11-1/2 by 11-1/2 inch samples of representative panel with factory detailed edge, and representative samples of mounting devices.

#### 1.4 QUALITY ASSURANCE

- A. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01.
- B. Reference Standards The 2019 Code of Regulations CCR, CFC, CMC, CPC, CEC Govern
  - 1. Title 19 CCR, Public Safety, State Fire Marshall Regulations
  - 2. Title 24 CCR, Part 1 - 2019 Building Standards Administrative Code
  - 3. Title 24 CCR, Part 2 - 2019 California Building Code, VOL. 1&2 (CBC) (2018 IBC, as Amended by CA
  - 4. Title 24 CCR, Part 3 - 2019 California Electrical Code (CEC) (2017 NEC, as Amended by CA)



5. Title 24 CCR, Part 4 - 2019 California Mechanical Code (CMC) (2018 IAPMO UMC, as Amended by CA)
6. Title 24 CCR, Part 5 - 2019 California Plumbing Code (CPC) (2018 IAPMO UPC, as Amended by CA)
7. Title 24 CCR, Part 6 - 2019 California Energy Code
8. Title 24 CCR, Part 9 - 2019 California Fire Code (CFC) (2018 IFC, as Amended by CA)
9. Title 24 CCR, Part 11 - 2019 California Green Building Standards Code (Calgreen Code)
10. Title 24 CCR, Part 12 - 2019 California Reference Standards (Partial List)

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Project Conditions: Protect system components from excessive moisture in shipment, storage, and handling. Deliver in unopened bundles and store in a dry place with adequate air circulation. Do not deliver material to building until wet conditions such as concrete, plaster, paint, and adhesives have been completed and cured to a condition of equilibrium.

#### 1.6 LIMITED WARRANTY

- A. Limited Warranty: Provide manufacturer's standard limited 3-year warranty against manufacturing defects in material or workmanship.

### PART 2 - PRODUCTS

#### 2.1 SOUND ABSORPTIVE PANELS

- A. Abuse Resistant Wall Panels Basis-of-Design: Conwed Respond HI Panels
  1. Construction: Composite core of dimensionally stable rigid fiberglass.
  2. Core Fiberglass Density: 6 - 7 pcf.
  3. Recycled Content: For fiberglass, 52 percent pre-consumer and 5 percent post-consumer recycled content.
  4. Core laminated with 1/16 inch, resilient perforated co-polymer face sheet.
  5. Core Thickness: 1-1/16 inches.
  6. Width: 24-48 inches. See Interior Elevations at A-601 and A-602 for layout.
  7. Length: 96 inches. See Interior Elevations at A-601 and A-602 for layout.
  8. Corners: Square.
  9. Edge Profile: Square.
  10. Edge Treatment: Resin hardened.

11. Finish: Copolymer applied directly to face and edges and face of panels, color as selected.
12. Mounting Type: Z-Clip to Z-Bar.
13. Flammability (ASTM E 84): Panel components shall have a Class "A" rating per ASTM E 84.
14. Resistivity To Heat Or Cold: R-factor of 4.16 per inch of thickness.
15. Acoustical Performance: Values below are for panels mounted in accordance with ASTM C 423 (Type D5 Mounting) and vary by panel thickness and finish.
  - a. Noise Reduction Coefficient (NRC) for 1-1/16 inch Thickness: 0.85.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Verify wet work such as plastering and concrete is complete and dry. Verify building is enclosed and under standard occupancy conditions (60 - 85 degrees F and not more than 70 percent relative humidity) prior to start of installation. Commencement of installation constitutes Installer's acceptance of surfaces and conditions.
- B. Install products in accordance with manufacturer's written instructions and in proper relationship with adjacent construction.
- C. Touch-up, repair or replace damaged units until satisfactory results are obtained.

#### 3.2 PROTECTION

- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
  1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
  2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 09 84 10

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## SECTION 11 49 10 - GYMNASIUM EQUIPMENT

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes the following gymnasium equipment:

1. Basketball equipment.
2. Volleyball equipment.
3. Wall Pads
4. Scoreboard and shot clock.
5. ~~Outdoor playground equipment.~~

- B. Related Sections include the following:

1. Division 5 sections for structural steel framing to support basketball backstops.
2. Section 09 64 20 Wood Gymnasium Flooring for layout and painting of court lines to be coordinated with installation of basketball backstops.
3. Division 16 sections for electrical service for motor operators, controls, and other powered devices for motorized gymnasium equipment.

#### 1.3 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Provide basketball backboards capable of withstanding the effects of earthquake motions determined according to ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 9, "Earthquake Loads."

1. ~~Free standing gym equipment shall be secured to the floor (and/or wall) to prevent sliding and/or overturning.~~
2. ~~Weights and heavy equipment shall be properly stored (secured) when not in use.~~
3. ~~Secure equipment to concrete floor with concrete drill in anchor bolt at each leg.~~
4. ~~Secure equipment to wood floor with lag bolt at each leg. Lag bolt must be installed into floor joists or blocking.~~
5. ~~Screw clip angle to equipment and fasten to floor with either concrete drill in anchor or lag bolts.~~
6. ~~Comply with seismic requirements indicated on Structural Drawings.~~

#### 1.4 SUBMITTALS

- A. List of proposed products.

- B. Product Data: For each type of product indicated.
  - 1. If applicable, include assembly, disassembly, and storage instructions for removable equipment.
  - 2. Motors: Show nameplate data, ratings, characteristics, and mounting arrangements.
- C. Shop Drawings: For gymnasium equipment. Include plans, elevations, sections, fabrication details, dimensions, attachments to other work, and the following:
  - 1. Method of field assembly for removable equipment, connections, installation details, mountings, floor inserts, attachments to other work, and operational clearances.
- D. Structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation including loads, point reactions, and locations for attachment of gymnasium equipment to structure.

E. Manufacturer must provide calculations and reports for tests performed by an independent testing laboratory accredited by the American Association of Laboratory Accreditation (A2LA) that clearly demonstrate compliance with minimum safety factors included in product specifications.

F. Coordination Drawings: Court layout plans, drawn to scale, and coordinating floor inserts, game lines, and markers applied to finished flooring.

G. Samples for Initial Selection: For each type of gymnasium equipment indicated.

H. Samples for Verification: For the following products:

- 1. Basketball and Volleyball Net: Full size.
- 2. Volleyball Floor Insert: Full-size unit.
- 3. Volleyball Post Standard: Full-size unit with net tensioner.

I. Product Certificates: For each type of gymnasium equipment, signed by product manufacturer.

J. Qualification Data: For Installer.

K. Operation and Maintenance Data: For gymnasium equipment to include in emergency, operation, and maintenance manuals.

L. Warranty: Special warranty specified in this Section.

## 1.5 QUALITY ASSURANCE

A. Installer Qualifications: An employer of workers trained and approved by manufacturer.

B. Source Limitations: Obtain each type of gymnasium equipment through one source from a single manufacturer.

C. Backstops shall be designed, fabricated, and installed to comply with National Collegiate Athletic Association (NCAA) and National Federation of State High School Associations (NFHS) regulations.

- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

- E. All welding to be performed by personnel having passed Welder Qualification testing in accordance with American Welding Society (AWS) code D1.1 or higher. Manufacturer to provide certification and test results upon request.

## 1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install gymnasium equipment until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Field Measurements: Verify position and elevation of floor inserts and layout for gymnasium equipment.

## 1.7 COORDINATION

- A. Coordinate installation of floor inserts with structural floors and finish flooring installation and with court layout and game lines and markers on finish flooring.
- B. Coordinate layout and installation of overhead-supported gymnasium equipment and suspension system components with other construction including light fixtures, HVAC equipment, fire-suppression-system components, and partition assemblies.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Basketball Equipment: Subject to compliance with requirements, provide either the named product or an equal product by one of the other manufacturers specified.
1. Draper Inc. of Spiceland, Indiana(Basis of Design)
  2. Jaypro Sports, LLC.
  3. L. A. Steelcraft.
  4. Or equal.



Draper local dealer is: H2I Group at 714-503-0326 or 949-239-5145, or by email at: [mkurnik@h2igroup.com](mailto:mkurnik@h2igroup.com), Mike Kurnik

- B. Volleyball Equipment: Subject to compliance with requirements, provide either the named product or an equal product by one of the other manufacturers specified.
1. Draper Inc. (Basis of Design)
  2. AALCO Manufacturing
  3. Jaypro Sports, LLC.
  4. L. A. Steelcraft.
  5. Or equal.

- C. Electronic Scoreboard: Subject to compliance with requirements, provide either the named product or an equal product by one of the other manufacturers specified.
1. Nevco (Basis of Design)
  2. Daktronics
  3. Bison Inc.
  4. Draper.
  5. Or equal.

## 2.2 BASKETBALL EQUIPMENT

### A. Backstop:

1. Type: Ceiling suspended, forward-folding, front-braced basketball backstop; Draper EZ-Fold Model TF-20 as manufactured by Draper, Inc.
2. Distance from court floor to backstop attachment at roof structure: As indicated on Drawings.
3. Backstop shall be a welded together. 
4. Main frame: Main frame constructed from steel mechanical tubing to form a rigid tetrahedral "T" design of back-to-back right triangles. Parallelogram frames are not acceptable.
  - a. ~~Bent~~ Main center stem: 6 inches outside diameter, 11 gauge steel tubing ~~Strut suspended diagonally from roof structure at 22 degrees angle from vertical. Bend at lower end provides vertical member~~ of length sufficient to allow backstop height adjustment of plus or minus 6 inches of the rectangular bank.
  - b. Top member of T frame: 4 inches outside diameter, 11 gauge steel tubing
  - c. Folding front brace: Jackknife type, fully adjustable, self-locking in down position constructed from 2-1/2 inches outside diameter, 13 gauge outer steel tubing and 2-1/4 inches outside diameter, 14 gauge inner steel tubing.
  - d. Diagonal side braces: 2-1/4 inches outside diameter, 14 gauge steel tubing. Side braces shall join stem no higher than 4'6" above goal (18" above top of backboard).
5. Pivot/hinge joint: Pivot or hinge joint for folding of backstop shall not exceed 15" from roof structure except when required by architectural conditions for coordination with other trades or equipment. Pivot or hinge point to be designed in a manner to provide a minimum structural capacity of 25,000 Lbs. and a safety factor of 55:1. The main backstop frame shall pivot on 1-1/4" minimum solid steel shaft secured in a milled bearing hole in 1/2" minimum steel plate hangers to insure accurate positioning of bank.
6. Bank: Bank attached to the 6" OD main stem by heavy-duty bank hangers.
  - a. Hangers constructed of 1" x 2" 11-ga. steel tubing and formed 1/4" steel plate with slotted holes for lateral adjustment.
  - b. All banks shall have one upper bank hanger and include a goal brace, which attaches directly to the goal mounting plate and directly to the 6" main stem of the backstop to eliminate any strain on the bank and help prevent glass breakage. This direct mount feature shall conform to NCAA recommendation No. 5-F.
7. Backstop shall be supported from 4" OD 11-ga. steel mechanical tubing anchored to roof structure by means of heavy steel support hangers. Attachment to building structure to be with clamps capable of supporting a minimum of 20,000 Lbs. each. Superstructure shall be designed with a minimum of four attachment clamps to produce a combined minimum attachment point safety factor of 75 to 1 and manufacturer must be able to present 

- independent testing data to substantiate safety factor. Superstructure tubes shall be reinforced with bridging and/or bracing when truss centers exceed 10'0".
8. Backstop shall be provided with choice of black or white powder coat finish.

B. Electric Winch:

1. Provide for each folding basketball backstop separate electric winch mechanism.
2. Type: Fully enclosed, direct drive, worm gear, electric winch designed to hold backstop at any position during raising and lowering; Model 503285 Motorized Winch as manufactured by Draper, Inc.
  - a. Motor: 3/4 HP, 11.5 AMP, capacitor type, 60 cycle, 115 volt, single phase with automatic thermal overload protection manufactured in compliance with NEMA specifications. Motor is rated at an intermittent 10 minute duty cycle. Winch motor operates at full load amperage rating of 11.5 full load amps. Winch has integral limit switches to stop travel in up and down positions.
  - b. Hoist cable: 1/4 inch diameter, 7 by 19, galvanized aircraft cable with 7,000 pounds ultimate breaking strength.
  - c. Roller: Spring-load providing tensioning pressure to ensure cable tracks evenly on grooved drum.
  - d. Limit switches: Rotary counting up and down type, pre-wired to motor as integral part of winch.
3. Controls: Provide key lock, 3 position, momentary contact wall control switch to lower, raise, and stop backstop.
  - a. Provide two keys, one controlling up direction and second controlling down direction.
  - b. Provide with stainless steel cover plate.

4. Winch assembly weight: 68 lbs
5. Winch assembly warranty: five-year limited warranty.

C. Safety Belt and Lock

1. Provide each front folding basketball backstop with safety belt and lock test to withstand 1750 pounds free fall load.
2. Safety lock: Inertia sensitive to automatically lock backstop in position at any time during storage, raising, or lowering. Sudden increase in either tension or speed shall activate lock.
3. Safety belt: 2 inches wide nylon belt rated at 6000 pounds breaking strength; Safety Belt 503229 as manufactured by Draper, Inc.
4. Belt shall extend 36 feet and shall be automatically retracted and stored on reel equipped with constant force spring. Operation and locking action shall be activated by centrifugal force to lock backstop before unit travels 12 feet of free fall.
5. Unit shall incorporate automatic reset not requiring poles, ropes, levers, or buttons for resetting

D. Basketball Backboard:

1. Type: Rectangular, glass, official size backboard to be used with direct attachment goal; Model 503136 as manufactured by Draper, Inc.
2. Overall size: 72 inches wide by 42 inches high.
3. Construction: 1/2 inch thick fully tempered glass in extruded aluminum frame with mitered corners. Extended frame section of high tensile aluminum (6063-T5). Provide



- steel gusset type mounting corner brackets with slots for mounting backboard to the support structure.
4. Goal mounting assembly: Steel assembly secured to aluminum frame and equipped with steel sleeves through glass allowing rear structure to be secured to front mounting plate. Provide with holes and studs to secure backboard and goal directly to goal brace. Front plate provided with holes for goal attachment.
  5. Equip frame and goal mounting assembly with neoprene shock absorbing cushions.
  6. Permanently etch official white border and target area on front side of glass.

E. Basketball Goals:

1. Type: Breakaway goal with tube-tie net attachment and designed to withstand shock loads from player slam dunking or hanging on rim; Model 503581 as manufactured by Draper, Inc.
2. Rim shall deflect down when 230 pounds static load is applied and return to playing position when load is removed. Breakaway point shall be adjustable from 160 to 230 pounds.
3. Ring shall have rebound characteristics identical to those of non-moveable ring. Factory set proper flex and rebound requirements. Goal features easy-adjust system to allow users to adjust the breakaway point from 160 pounds to 230 lbs.
4. Ring: Fabricated from 5/8 inch diameter steel rod formed into 18 inches ring. Rigidly brace with die cut steel braces welded to rim.
5. Mounting plate: Heavy duty steel plate bracket with mounting holes and designed to position inside of ring 6 inches from backboard.
6. Provide series of small tubes welded to bottom of rim providing for attachment of net by threading 1/8 inch nylon cord through tubes.
7. Finish: Powder coated orange paint.
8. Anti-whip net: Top half made of durable fibers encased in nylon to prevent net from whipping up on rim. Lower half all nylon. Color white.
9. Mounting hardware: Zinc plated.

F. Safety Edge Padding

1. Type: Foam padding for bottom edge and corners of backboard to provide safety protection to meet NCAA and NFHS requirements; Model 5032XX Safe-Edge Padding as manufactured by Draper, Inc.
2. Construction: Molded foam, 2 inches wide and wrapping around edges 3/4 inch. Equip with molded-in steel track and bolt-on attachment system. Padding shall cover bottom edge of backboard and extend 15 inches up sides.
3. Color: Per architect's specifications.

### 2.3 VOLLEYBALL EQUIPMENT

A. Floor Sleeves and Covers

1. Floor sleeve: Round, mechanical steel tube sleeve welded to steel anchor plate for casting in concrete floor to receive volleyball standard; Floor Sleeve 501006 as manufactured by Draper, Inc.
2. Size: 3-1/2 inches inside diameter by 8-1/2 inches tube and 4 inches square anchor plate.
3. Cover plate: [7-1/2 inches] [190 mm] brass floor plate mounting flange; Cover Plate 501035 as manufactured by Draper, Inc.



- a. Cover installed with flat head wood screws.
- b. Locking mechanism to prevent bouncing of cover plate.
- c. Opening diameter: 4-3/8 inches

B. Telescoping Aluminum Standards

1. Product: Power Volleyball System Model 500001 PVS-01 by Draper, Inc
  - a. Telescoping standards fabricated from Schedule 80 aluminum bottom and upper tubes and capable of adjusting from 73 inches to 100 inches in 1 inch increments to meet all age group height settings. Telescoping standards shall meet all FIVB, USVBA, NCAA and NFSHSA requirements for competition.
  - b. Pair of standards, one with tensioning winch and other with adjustable cable anchoring collar. Both standards equipped with single pulley sheave on upper telescoping tube section.
  - c. Bottom tube section: 3-1/2 inches diameter with 0.30 inch wall thickness, 72 inches high, schedule 80 aluminum. Bottom provided with rubber foot to protect floors.
  - d. Upper telescoping tube section: 2-7/8 inches diameter, schedule 80 aluminum with 0.28 inch wall thickness.
  - e. Pulley sheaves: 4 inches diameter pulley and oilite bushing attached to top of upper telescoping tube
  - f. Tensioning winch: Heavy-duty, self-locking worm-gear mechanism.
    - 1) Position winch on outside of bottom tube.
    - 2) Equip winch with 2 inches wide, high tensile nylon strap with sling ring and spring-hook for connection to net cable.
    - 3) Winch operated by folding handle.

C. Volleyball Net

1. Product: Net 500004 as manufactured by Draper, Inc
  - a. Fabricated from high quality 4 inches square mesh made with #36 black knotless nylon.
  - b. Size: 32 feet long by 39-3/8 inches high.
  - c. Provide double stitched, vinyl coated polyester hem around perimeter of net. At net ends, provide hem with pocket containing 1/2 inch diameter fiberglass dowel.
  - d. Net cable: 1/8 inch diameter, 2000 pounds minimum breaking strength, galvanized aircraft cable with nylon coating. Equip ends with loops formed with heavy swaged type fittings. Run cable through top hem.
  - e. Rope tensioner: Provide bottom hem with 1/4 inch braided nylon rope and spring-loaded, pressure type tensioner, Draper Model 500005 Rope Tensioner.
  - f. Provide each net end with six 1 inch wide polypropylene tension straps with buckles for tightening net.
  - g. Combination Boundary Markers and Antennae: Pair of 2 inches wide, white, polyester reinforced vinyl strips to attach with snap fasteners to ends of net at boundary lines; Pair of 3/8 inch diameter fiberglass rods with red and white strips to extend above net 32-1/2 inches; 500016 Boundary Markers and Antenna as manufactured by Draper, Inc.

D. Judge's Stand

1. Product: DRAPER Model 5013xx (xx=color) by Draper, Inc.

- a. Judges stand shall be designed to attach to a collar by means of a removable, self-locking pin. Collar slides over 3½" O.D. volleyball standard and is rigidly positioned to post with allen-head set screws.
- b. Frame shall be constructed of 1-1/2"x1-1/2", 14-gauge square steel tubing and 1" OD steel tubing, welded together. Legs, steps, platform, and handrails shall all be one solid unit. Judges platform shall consist of 1/2" thick, polyurethane finished Birch plywood, permanently bolted to stand. Handrail/ladder section shall be spaced vertically 16" on center with three (3) ladder steps spaced horizontally of 16" centers. Lower end of ladder tubes shall have 1/2" thick rubber bumper to protect finished floors. Ladder legs shall have 2" O.D. rubber wheels for easy transporting of stand. All metal components of stand shall be finished in black powder coat.
- c. Judges stand shall be supplied complete with safety padding for player protection. Upper section of stand shall have a snapped into place 1/12" polyethylene foam padding. Lower ladder tubes shall have removable, hook and loop attached pads of 1" neoprene foam. All pads shall be wrapped with 14 oz., polyester reinforced, dark blue vinyl (optional vinyl colors also available). Last two digits indicate pad color. Colors available: 01 White; 02 Marine Blue; 03 Brown; 04 Red; 05 Beige; 06 Orange; 07 Yellow; 08 Grey; 09 Maroon; 10 Dark Blue (standard); 11 Black; 12 Purple; 13 Forest Green.

E. Protective Pads for Standards (2 required).

1. Product: Volleyball Post Padding shall be DRAPER Model 5011XX Official Padding for 3-1/2" O.D. Volleyball Systems by Draper, Inc.
  - a. Pads shall be hinged at corners to fold neatly around posts and tensioning winch to provide maximum player protection. Pads shall be constructed of 1 1/2" thick polyethylene foam filler covered with polyester reinforced vinyl with three (3) hook and loop fastening straps for quick set-up and take-down, and shall be constructed to accommodate winch, or judges stand when used.
  - b. Color as specified by Architect from manufacturer's standard colors. Standard pads are Dark Blue in color unless otherwise specified. Last two digits indicate pad color. Colors available: 01 White; 02 Marine Blue; 03 Brown; 04 Red; 05 Beige; 06 Orange; 07 Yellow; 08 Grey; 09 Maroon; 10 Dark Blue (standard); 11 Black; 12 Purple; 13 Forest Green.
  - c. Pads sold as pair unless otherwise specified.

2.4 SCOREBOARD

A. Materials

1. Aluminum faces and perimeter frame: Fabricated from 0.050 inch minimum thickness, ASTM B221 aluminum sheet with reinforcement and slotted mounting brackets top and bottom.
2. Finish: Acrylic polyurethane paint. Color as selected by Architect from manufacturer's standard range.
3. Electronics: Low voltage, solid state, 2-wire cable, multiplex system, quartz crystal controlled.
4. Provide fiber optic communication interface to reduce threat of damage from electrical storms.



5. LED (light emitting diode) units: Seven-bar, segmented digits with protective aluminum cover, rated typical life 100,000 hours, and designed to provide excellent visibility from all angles and sides.
6. Provide location specific universal power cord with plug for world-wide installation.
7. Control cable where required: UL listed, 2-wire, R/G 58/U, coaxial cable, 1/4 inch diameter.
8. Junction boxes where required: Sheet metal box and cover, 4-1/2 x 2-1/8 x 2-1/8 inches min. complying with NEMA standards.

B. Scoreboards

1. Type: Interior, electronic basketball scoreboard with two integral horns and LED displays for time, scores, period, number for player fouling with personal fouls, team fouls, time outs left, bonus and double bonus indicators and next possession arrows; Team Name and Intelligent Captions™ 100% electronic. Model 2781 as manufactured by Nevco.
  - a. Size: 10 feet long x 5 feet high x 8 inches deep.
  - b. Approximate hanging weight: 135 pounds.
  - c. Intelligent Captions™ and Electronic Team Names: 8 x 48 pixel "Home", "Guests", 8 x 16 pixel "fls", "tol", and 8 x 32 pixel "player". All Captions and Team Names are 2 LED per Pixel, 16mm pixel to pixel centers. Pixel matrices shall be available in Red or Amber. Period caption plate; 5" white lettering on black background. Intelligent Captions™ shall be altered on a per-sport basis for Volleyball, Wrestling and Basketball automatically.
  - d. Additional Intelligent Caption™ names per sport shall read: won, set, pts, time, weight, where appropriate.
  - e. LED displays:
    - 1) Timing: Super Bright Red or White 13 inches high digits with lit colon.
    - 2) Team scores: Super Bright Amber or White 13 inches high digits
    - 3) Period: Super Bright Amber or White 9 inches high digits.
    - 4) Player number and fouls: Super Bright Red or White 9 inches high digits.
    - 5) Team fouls & time outs left (tol): Super Bright Amber or White 9 inches high digits.
    - 6) Next possession: Super Bright Amber or White arrow for each team.
    - 7) Bonus and double bonus in the form of a 4 inch Super Bright Red or White LED "B".
  - f. Provide Advertising /Team logo area , 12" x 12" minimum
  - g. Suspension mounting attachments will be included.
  - h. Power requirement: 175 Watts, MAX, 100-240 Volts AC w/Power Factor Correction.
2. Type: Interior, multi-purpose basketball/volleyball/wrestling electronic scoreboard with two integral horns, LED displays for time, scores, period, bonus, double bonus, and next possession arrows; Model 2700-NL (Non-Lit caption plates, base model) as manufactured by Nevco Inc. Rear-lit (RL) caption plates or Electronic Team Names (ETN) are optional and scoreboard shall be capable of in-the-field retrofit. Only LED lighting shall be used for rear-lit captions, incandescent lighting excluded. No captions shall be applied directly to the face of the scoreboard. All caption plates will be changeable and made of polyvinylchloride with vinyl lettering applied.
  - a. Size: 8 feet long x 3 feet high x 8 inches deep.
  - b. Approximate hanging weight: 71 pounds

- c. Large black and white captions providing maximum visibility:
  - 1) 6 inches high: "Home", "Guests", and "Period"
- d. LED displays:
  - 1) Timing: Super Bright Red or White 13 inches high digits
  - 2) Team scores: Super Bright Amber or White 13 inches high digits.
  - 3) Period: Super Bright Amber or White 9 inches high digits.
  - 4) Next possession: Super Bright Amber or White arrow for each team.
  - 5) Include bonus and double bonus in the form of a 4 inch Super Bright Red or White LED "B".
- e. Rear-lit captions (when specified) shall require zero maintenance
- f. Provide Advertising /Team logo area 12" x 12" minimum.
- g. Suspension mounting attachments will be included.
- h. Power requirement: All options included: 126 Watts, MAX, 100-240 Volts AC w/Power Factor Correction.

C. Accessories/Options

- 1. Provide each scoreboard or accessory with control cable of length required. Electrical junction boxes, conduits, mounting hardware, and other accessories as required for installation are to be provided by others.

2.5 SHOT CLOCK

- A. Product: Pair of electronic units displaying main time, shot clock time with external horn box that can be mounted above or below the clock; Model SSC-T9 as manufactured by Nevco, Inc.
  - 1. Size: 36 inches x 30 inches x 2 inches deep.
  - 2. Approximate weight each: 58 lbs.
  - 3. LED displays:
    - a. Main time: High Intensity Red or White [9 inches] [229 mm] high digits.
    - b. Shot clock time: High Intensity Amber or White [13 inches] [330 mm] high digits.
    - c. End of period goal lights: High Intensity Red LED's.
  - 4. Horn: Sounds automatically at 0 shot clock time.
  - 5. Power requirement: 12vDC low voltage power input from included 120 VAC 1.2A Power Supply; powered from the Indoor Accessory Driver (IAD).
  - 6. Construction: Shot Clock face made of durable Lexan, encased in an aluminum cabinet.

2.6 CONTROL CENTER

- A. **Type: Wireless**, microprocessor based operator's control center with receiver unit mounted at scoreboard and designed to operate different models of scoreboard by interchange of keyboard overlay; Model MPCW as manufactured by Nevco. Console will operate earlier scoreboards from Nevco.
  - 1. Unit shall comply with Part 15 of FCC Rules regarding interference.
  - 2. Console: High impact, break-resistant gray plastic 11 x 9-1/2 x 4-1/8 inches.
  - 3. Features:
    - a. Control can be used to operate both wireless and wired scoreboards.
    - b. Power on-off switch



- c. Split and raised 40 key keyboard, internal beeper acknowledging each entry, and bookmark capabilities.
  - d. Keyboard overlays for scoreboard or accessory.
  - e. Remote hand-held main time switch with integral horn button.
  - f. Provide with LED displays, lithium cell battery backup to maintain scoreboard memory and time of day, self test mode, power on-off switch, alternate time control, and multiple scoreboard operation.
  - g. Timer features: Time of day display, multiple time out timers with warning, interval horn, up-count auto stop with horn, and 1/10<sup>th</sup> second display during last minute.
  - h. Dimmer control for scoreboard.
4. Receiver: Sturdy impact resistant construction, [6 x 4 x 1.5 inches] [152 x 102 x 38 mm] with [4 inch] [102 mm] antenna and mounted at scoreboard Provide option of battery supply for control operation if utility power not available.
  5. Maximum range: [1,000 feet] [305 m] from control center to receiver
  6. Receiver shall require no additional source of power or separate control cable.
  7. Power adapters: Provide for each control center.
    - a. Input: 120 volts, 0.4 amps, 50/60 Hz
    - b. Output: 9 volts, 1.67 amps, 15 watts.
  8. Provide option of battery supply for control operation if utility power not available.
  9. Provide carrying case for control center and hand-held switch; Model CC-3 as manufactured by Nevco
    - a. Size: 18-1/2 x 14-1/2 x 6 inches
    - b. Construction: Double wall, high density black polyethylene with padded interior, mechanical latches, and hinges.

2

## ~~2.7 OUTDOOR PLAYGROUND EQUIPMENT~~

### ~~A. As indicated on Drawings for the following:~~

- ~~1. Tetherball:
  - a. Pole: As indicated on Drawings.~~
- ~~2. Basketball court:
  - a. Pole: As indicated on Drawings.
  - b. Backboard, goal, and net: Similar to indoor equipment specified but suitable for outdoor usage.~~

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for play court layout, alignment of mounting substrates, installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance.
  1. Verify critical dimensions.



2. Examine supporting structure and subfloors and footings below finished floor.
3. Examine wall assemblies, where reinforced to receive anchors and fasteners, to verify that locations of concealed reinforcements have been clearly marked. Locate reinforcements and mark locations.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

B. Coordination

1. Coordinate provision of basketball backstops with construction of roof and ceiling framing supporting basketball backstop to ensure proper support and method of attachment.
2. Coordinate support of backstops to ensure proper distribution of loads and adequacy of attachment points. Provide additional structural framing members as required.
3. Coordinate electrical requirements for electrically operated winch to ensure proper power source, conduit, wiring, and boxes for keyed switches
4. Prior to installation, verify exact locations of backstops.

3.2 INSTALLATION, GENERAL

- A. General: Comply with manufacturer's written installation instructions and competition rules indicated for each type of gymnasium equipment. Complete equipment field assembly, where required.
- B. Unless otherwise indicated, install gymnasium equipment after other finishing operations, including painting, have been completed.
- C. Permanently Placed Gymnasium Equipment and Components: Rigid, level, plumb, square, and true; anchored securely to supporting structure; positioned at locations and elevations indicated on Shop Drawings; in proper relation to adjacent construction; and aligned with court layout.
  1. Floor Insert Location: Coordinate location with application of game lines and markers, and core drill floor for inserts after game lines have been applied.
  2. Floor Insert Elevation: Coordinate installed heights of floor insert with installation and field finishing of finish flooring and type of floor plate.
  3. Operating Gymnasium Equipment: Verify clearances for movable components of gymnasium equipment throughout entire range of operation and for access to operating components.
- D. Anchoring to In-Place Construction: Use anchors and fasteners where necessary for securing built-in and permanently placed gymnasium equipment to structural support and for properly transferring load to in-place construction.
- E. Connections: Connect automatic operators to building electrical system.
- F. Removable Gymnasium Equipment and Components: Assemble in place to verify that equipment and components are complete and in proper working order. Instruct Owner's designated personnel in properly handling, assembling, adjusting, disassembling, transporting, storing, and maintaining units. Disassemble removable gymnasium equipment after assembled configuration has been approved by Owner, and store units in location indicated on Drawings.

### 3.3 INSTALLATION, BASKETBALL BACKSTOPS

- A. Install folding basketball backstops in accordance with approved shop drawings and manufacturer's instructions.
- B. Install backstops, backboards, and goals plumb, level, and rigid. Attach to roof framing with anchors of size and type recommended by manufacturer.
- C. Install backboards such that goal is 10 feet above court floor. After installing, verify that mounting height is correct.
- D. Install electrically-operated winches, hoisting cables, safety belt and lock securely to operate properly and smoothly to safely lower and raise folding backstops.

### 3.4 INSTALLATION, VOLLEYBALL SLEEVES

- A. Coordinate layout of volleyball courts and location of floor sleeves with installation of floor surfacing and application of game lines and boundaries.
- B. Coordinate location of sleeves and required size of sleeve footing with trade responsible for placing concrete. Provide sleeves in adequate time to allow casting in concrete floor slabs. Ensure that setting of sleeve compensates for type of floor finish to be provided.
- C. Ensure that sleeves for each volleyball court are spaced at 36'-0" on center.
- D. Floor cover plates: Install centered directly over floor sleeves in accordance with manufacturer's instructions. Route out floor to ensure cover is flush with finished floor. Install cover with flat head screws.

### 3.5 ADJUSTING

- A. Adjust movable components of gymnasium equipment to operate safely, smoothly, easily, and quietly, free from binding, warp, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and moving parts.

### 3.6 FIELD QUALITY CONTROL

- A. Operate each folding basketball backstop a minimum of three times to ensure proper lifting and lowering. Adjust as required to ensure smooth operation and accurate positioning.
- B. Operate each backboard and goal height adjuster to ensure proper movement. Adjust limit switches and mechanism as required to ensure smooth operation and accurate positioning.
- C. Insert volleyball standards in floor sleeves and attach nets, boundary markers, antennae, judge's platform, protection padding, and other accessories. Verify that all items have been provided and are as required for complete installation.



- D. Verify that volleyball standards are vertical and rigid. Operate volleyball standards telescoping feature. Verify volleyball net height settings are accurate.
- E. Provide missing items and correct deficiencies.

1

### 3.7 CLEANING

- A. After completing gymnasium equipment installation, inspect components. Remove spots, dirt, and debris and touch up damaged shop-applied finishes according to manufacturer's written instructions.
- B. Replace gymnasium equipment and finishes that cannot be cleaned and repaired, in a manner approved by Architect, before time of Substantial Completion.

### 3.8 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain gymnasium equipment.
- B. Submit operation and maintenance manuals in accordance with Section 01 77 00 Closeout Procedure

END OF SECTION 11491

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Orcutt Union School District  
Orcutt Academy High School Multi-Use Room Bldg.  
Construction Documents

Project #20179.01  
DSA #: 03-121912

## SECTION 11 66 23 – GYMNASIUM PROTECTION ACCESSORIES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Division 9: Gypsum Board
- B. Division 11: Gymnasium Equipment

#### 1.2 SUMMARY

- A. Section includes: Wall mounted protection pads suitable for gymnasium installations.

#### 1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 00 - Submittal Procedures:
  - 1. List of proposed products and product data.
  - 2. Shop drawings showing elevations, dimensions, fabrication details, and method of attachment.
  - 3. Samples of protection pad cover fabrics for selection by Architect
  - 4. Manufacturer's installation and maintenance instructions.

### PART 2 - PRODUCTS

- A. Acceptable Manufacturers
  - 1. Draper, Inc., 411 South Pearl Street, Spiceland, Indiana 47385-0425; 765-987-7999.
  - 2. Or approved equal.
- B. UL GREENGUARD GOLD CERTIFIED WALL PROTECTION PADS
  - 1. Type: Fabric covered urethane wall protection pads; Wall Pads as manufactured by Draper, Inc.
  - 2. Pad shape and size: Sizes and shapes as indicated on Drawing Elevations.
    - a. Flat, rectangular pads: 24 by 72 inches.
    - b. L shaped pads: at Indoor Stage per Drawing Elevations.
  - 3. Cushioning material: 2 inches thick urethane filler with 3.5 pounds density
  - 4. Backer: 7/16 inch Urea-formaldehyde-free Oriented Strand Board
  - 5. Cover: Solid vinyl coated polyester fabric with embossed pattern.

Orcutt Union School District  
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Construction Documents

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DSA #: 03-121912

- a. Weight: 14 ounces per SY
  - b. Breaking strength: 350 PSI
  - c. Tear resistance: 65 pounds
  - d. Resistant to rot, mildew, and ultraviolet light.
  - e. Flammability: Rated self extinguishing in accordance with California State Fire Code F-230
  - f. Color: Selected by Architect from manufacturer's standard range.
6. UL GREENGUARD Gold Certification: Entire wall pad assembly shall have been submitted to indoor air quality evaluation (IAQ) evaluation in accordance with UL 2811 test method to show compliance with emissions limits on UL 2818 Section 7.1 and 7.2. Materials are tested in accordance with ANSI/BIFMA M7.1-2011 and determined to comply with ANSI/BFMA X7.1-2011 and ANSI/BIFMA e3-2014e credit 7.6.1, 7.6.2 and 7.6.3. Material of emissions of total volatile organic compounds of < 0.22 mg/m<sup>3</sup>, formaldehyde < 0.0135 ppm, total aldehydes < 0.043 ppm, individual volatile organic compounds < 1/1000 TLV and < ½ chronic REL and total phthalates < 0.01 mg/m<sup>3</sup>. Manufacturer must be able to provide independent lab and test reports to verify compliance.
  7. ASTM: Pads shall meet all requirements of ASTM 2440-04. Manufacturer must be able to provide independent lab and test reports to verify compliance.
  8. Construction: Cushioning material adhered to backer and panel fully wrapped with fabric which is stapled to backer such that backer is not exposed on front or sides.
  9. Provide 1 inch wide fabric flanges at panel bottom and Z clips at bottom and top for wall mounting panels.

## PART 3 - EXECUTION

### 3.1 PREPARATION

1. Field verify dimensions prior to fabrication.
2. Coordinate fabrication of wall protection pads with size and location of switches, electrical outlets, and other wall mounted items; structural framing and bracing projecting from wall surface; and door and other wall openings.
3. For pads placed around structural columns coordinate required shapes and sizes with actual dimensions of structural members.

### 3.2 INSTALLATION

1. Install in accordance with manufacturer's written instructions and shop drawings.
2. Protection pads:
  - a. Mount protection pads 12 inches above finished floor.

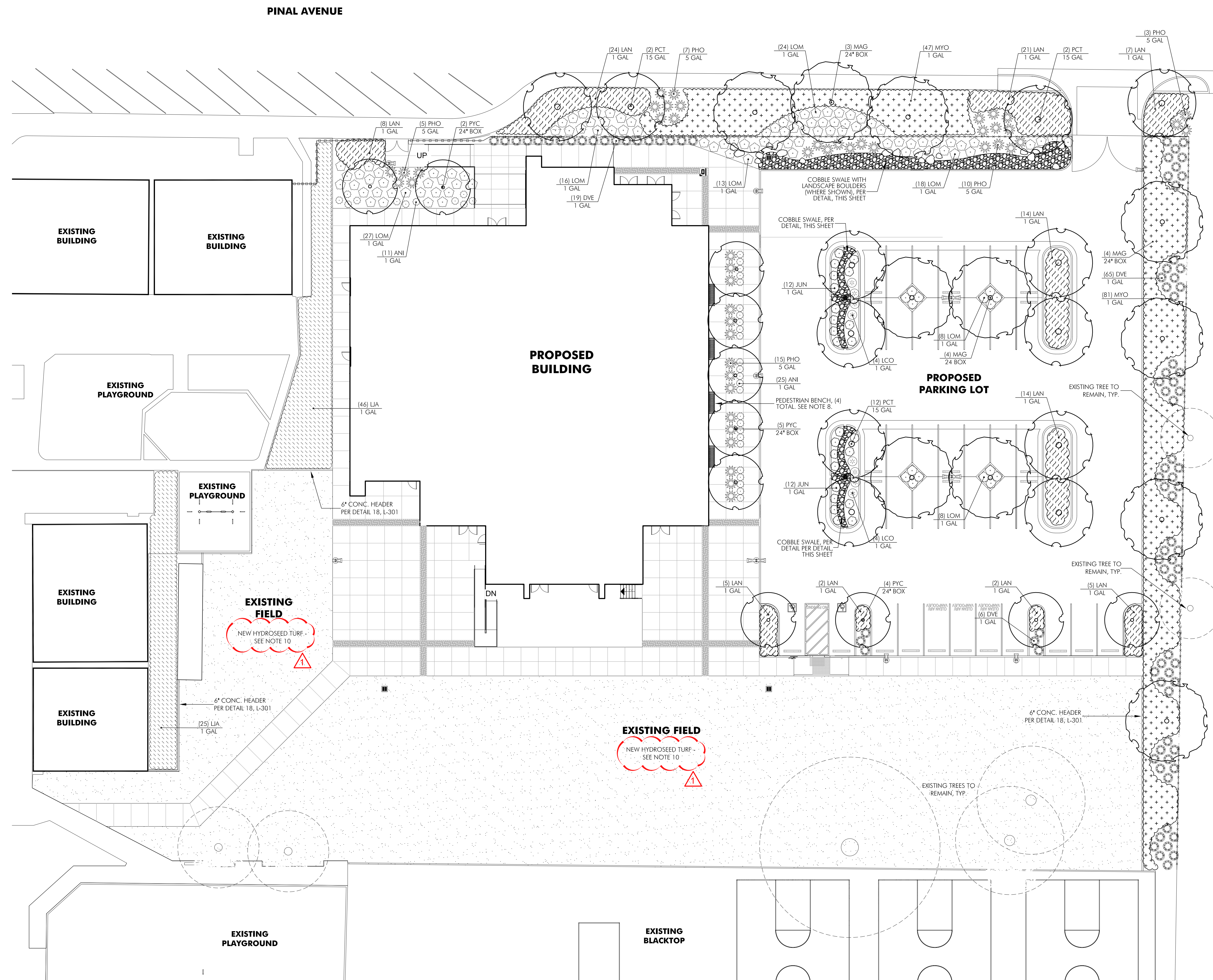
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Orcutt Academy High School Multi-Use Room Bldg.  
Construction Documents

Project #20179.01  
DSA #: 03-121912

- b. Secure to wall with fasteners along top and bottom. Type, size and spacing of fasteners as recommended by manufacturer.
- c. Neatly make cutouts for switches, electrical outlets, and other items on wall and seal with matching vinyl fabric.

END OF SECTION 11 66 23





**PLANT LEGEND**

TREES	BOTANICAL / COMMON NAME	WUCOLS	QTY.	SIZE	NOTES
MAG	Magnolia grandiflora 'Samuel Sommer' SOUTHERN MAGNOLIA	M	7	24" BOX 15 GAL	DETAILS 2a, 2b, 2c
PCT	Prunus cerasifera 'Thundercloud' PURPLE LEAF PLUM	L	13	15 GAL	DETAILS 2a, 2b, 2c
PYC	Pyrus calleryana 'Chanticleer' ORNAMENTAL PEAR	M	11	24" BOX	DETAILS 2a, 2b, 2c

SHRUBS / PERENNIALS	BOTANICAL / COMMON NAME	WUCOLS	QTY.	SIZE	NOTES
ANI	Anigozanthos 'Bush Ranger' KANGAROO PAW	L	36	1 GAL	DETAIL 1a
LOM	Lomandra longifolia 'Breeze' DWARF MAT RUSH	L	114	1 GAL	DETAIL 1a
JUN	Juncus patens CALIFORNIA GREY RUSH	L	24	1 GAL	DETAIL 1a
LCP	Leymus condensatus 'Canyon Prince' CANYON PRINCE WILD RYE	L	8	1 GAL	DETAIL 1a
PHO	Phormium 'Yellow Wave' NEW ZEALAND FLAX	L	47	5 GAL	DETAIL 1a
DVE	Dietsia vegata FORTNIGHT LILY	L	90	1 GAL	DETAIL 1a

GROUNDCOVER	BOTANICAL / COMMON NAME	WUCOLS	QTY.	SIZE	NOTES
LJA	Lonicera japonica 'Haliann' JAPANESE HONEYSUCKLE	L	71	1 GAL 5" O.C.	DETAIL 1a, 3a
LAN	Lantana montedensis TRAILING LANTANA	L	102	1 GAL 4" O.C.	DETAIL 1a, 3a
MYO	Myoporum parvifolium 'Putah Creek' CREEPING MYOPORUM	L	128	1 GAL 5" O.C.	DETAIL 1a, 3a

**PLANTING NOTES**

- CONTRACTOR TO PERFORM SPRAY AND KILL OPERATION ON ALL PLANTER AREAS THAT ONCE HAD TURF GROWING. REFER TO PLANTING SPECIFICATIONS FOR MORE INFO.
- QUANTITIES AND SIZES SHOWN IN THE PLANT LEGEND ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR. NOTIFY PROJECT LANDSCAPE ARCHITECT OF ANY MAJOR DISCREPANCIES.
- ALL PLANTER AREAS, AS DESIGNATED ON THE PLAN, SHALL BE PREPARED AND AMENDED PER THE SPECIFICATIONS. SOIL AMENDMENTS AND PREPARATION SHALL CONFORM TO STATE AB1881 AND LOCAL WATER EFFICIENT LANDSCAPE ORDINANCES.
- ALL TREES PLANTED WITHIN 7' OF HARDSCAPE OR STRUCTURES SHALL BE INSTALLED WITH A DEEP ROOT PLANTER, PER DETAIL 2B.
- INSTALL MINIMUM 3" THICK BARK MULCH IN ALL PLANTING AREAS. REFER TO SPECIFICATIONS FOR TYPE. PROVIDE SAMPLE FOR APPROVAL.
- ADJUST PLANT MATERIAL AS NECESSARY AROUND UTILITY LOCATIONS. NOTIFY LANDSCAPE ARCHITECT AND/OR DISTRICT OF ANY MAJOR CONFLICTS OR NECESSARY ADJUSTMENTS.
- REVIEW THE PLANTING AND IRRIGATION SPECIFICATIONS PRIOR TO BIDDING. IF NOT PROVIDED, CONTACT THE LANDSCAPE ARCHITECT.
- BENCH (QTY: 4) SHALL BE "RB-28". SIZE: 8" LONG, WITH INTERMEDIATE ARM REST. COLOR: BLACK. SURFACE MOUNT PER MANF'S INSTRUCTIONS. AVAILABLE FROM VICTOR STANLEY: 800-368-2573
- ANY EXISTING VEGETATION TO REMAIN AND NEWLY PROPOSED VEGETATION WILL BE PROPERLY MAINTAINED BY THE DISTRICT IN PERPETUITY AND IN ACCORDANCE WITH CBC 701A.5.
- FOR ALL TURF AREAS, CONTRACTOR SHALL PERFORM SPRAY AND KILL OPERATION AND SCALP TO REMOVE ALL EXISTING TURF. FINE GRADE, ROLL AND COMPACT NEW IRRIGATION TRENCHES; TILL AND ADD AMENDMENTS AND FERTILIZERS PER SPECIFICATIONS, AND THEN APPLY HYDROSEED TURF MIX. SEE SPEC'S SECTION 02930.

**CALGREEN SHADING REQUIREMENTS**

Per calgreen section 5.106.12.1 surface parking areas:  
 5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50% of the parking area within 15 years.  
 Calculations:  
 Parking field only approx. = 6,324 sq. ft.  
 Tree shading provided approx. = 3,225 sq. ft.  
 Percentage of shading provided per CALGreen = 51%



560 HIGUERA STREET, SUITE C  
 SAN LUIS OBISPO, CA 93401  
 TEL (805) 476-0399

CONSULTANTS  
 CIVIL ENGINEER  
 STANTEC CONSULTING SERVICES INC.  
 111 East Victoria Street  
 Santa Barbara, CA 93101  
 TEL (805) 680-6830

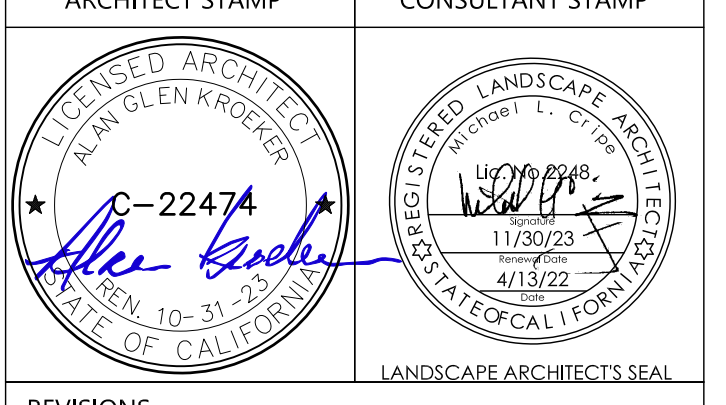
LANDSCAPE ARCHITECT  
 OASIS ASSOCIATES  
 3427 Miguelito Court  
 San Luis Obispo, CA 93401  
 TEL (805) 541-4509

STRUCTURAL ENGINEER  
 STORCK WOLFE & ASSOCIATES  
 555 Chorro Street, Suite A1  
 San Luis Obispo, CA 93405  
 TEL (805) 548-8600

MECHANICAL ENGINEER  
 BMA MECHANICAL +  
 100 Cross Street, Suite 204  
 San Luis Obispo, CA 93401  
 TEL (805) 544-4269

ELECTRICAL ENGINEER  
 THOMA ENGINEERING  
 3562 Empleo, Suite C  
 San Luis Obispo, CA 93406  
 TEL (805) 543-3850

FIRE PROTECTION ENGINEER  
 BMA MECHANICAL +  
 100 Cross Street, Suite 204  
 San Luis Obispo, CA 93401  
 TEL (805) 544-4269



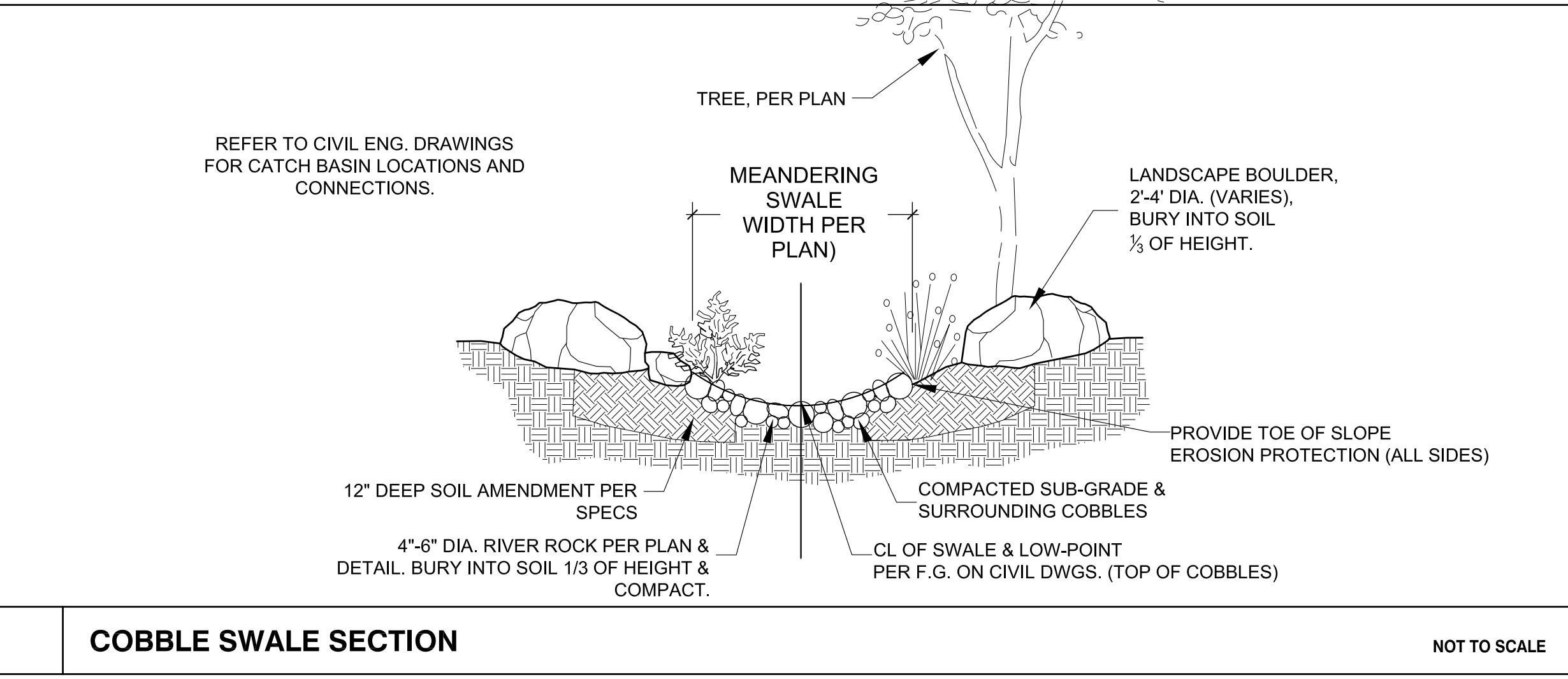
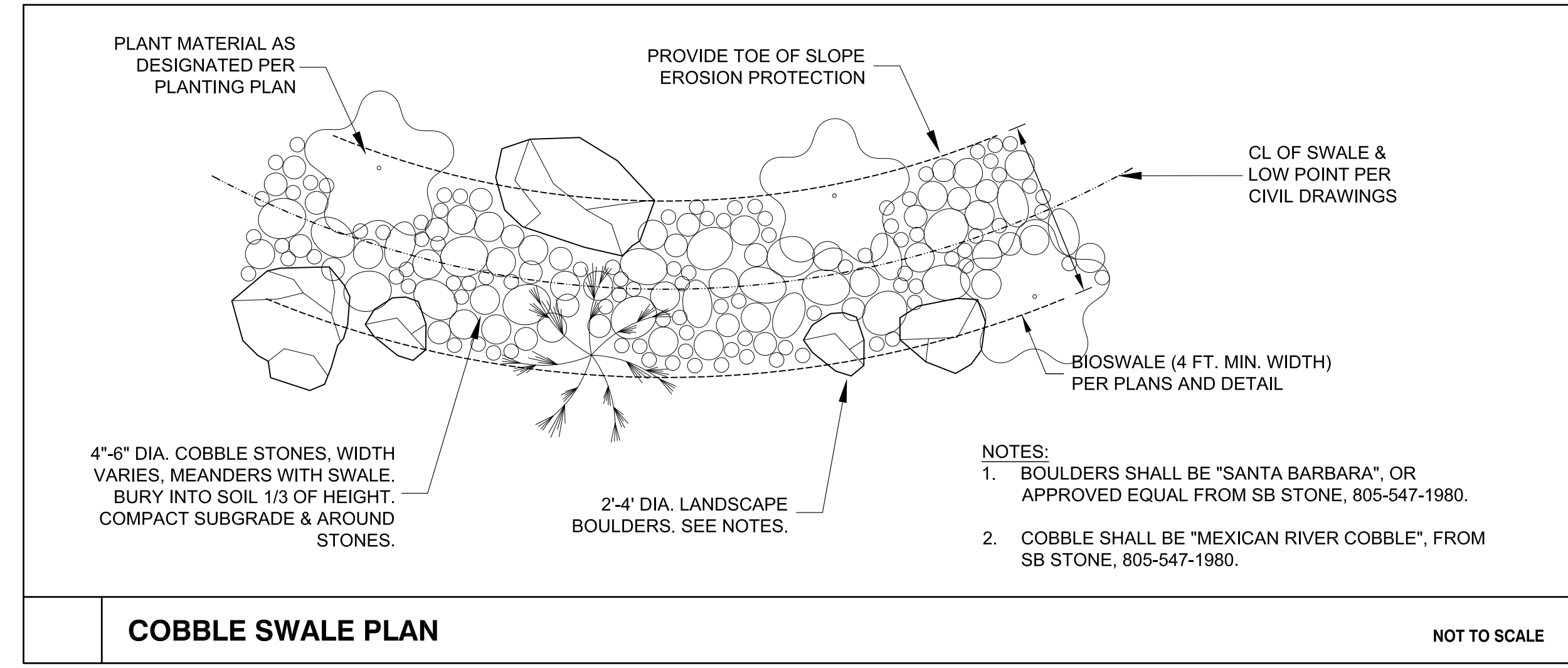
REVISIONS

NO.	DATE	DESCRIPTION
1	MAY 13, 2022	ADDENDUM #4

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT OWNER & TITLE  
**ORCUTT UNION SCHOOL DISTRICT**  
 500 Dyer Street  
 Orcutt, CA 93455  
**ORCUTT ACADEMY HS MUR BUILDING**  
 610 Pinal Avenue  
 Orcutt, CA 93455

SHEET TITLE  
**PLANTING PLAN**  
 DRAWN BY: JOB NUMBER: 20179.01  
 SHEET NO.  
**L-101**  
 DATE: APRIL 13, 2022



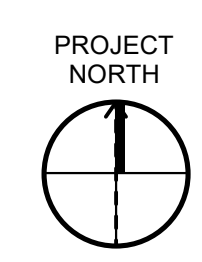
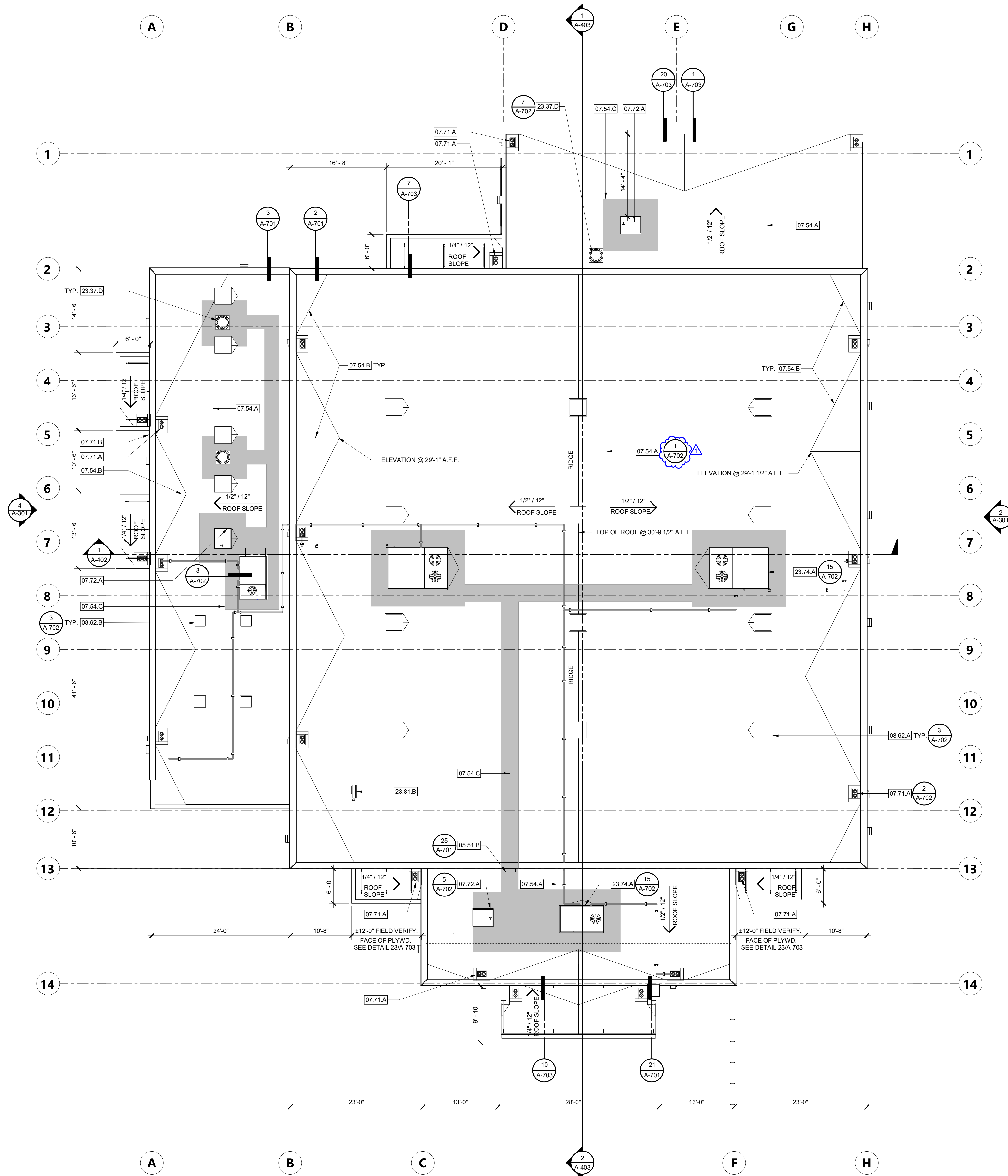
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ROOF PLAN 1/8" = 1'-0" 1

- ### KEYNOTES
- 05.51.B EXTERIOR ALUMINUM LADDER
  - 07.54.A SINGLE PLY ROOF MEMBRANE SYSTEM
  - 07.54.B TAPERED (CRICKETS) INSULATION FOR SLOPE
  - 07.54.C TRAFFIC RATED ROOF WALKWAY, 36" WIDE
  - 07.71.A ROOF DRAIN AND OVERFLOW
  - 07.71.B OVERFLOW NOZZLE
  - 07.72.A 30"x36" ROOF HATCH
  - 08.62.A SKYLIGHTS, 36" X 36", CENTERED BETWEEN ROOF TRUSS. GLAZING TO BE SAFETY GLASS.
  - 08.62.B SKYLIGHTS, 24" X 24", GLAZING TO BE SAFETY GLASS.
  - 23.37.D EXHAUST HOOD PER MECHANICAL DRAWINGS
  - 23.74.A PACKAGED HVAC UNIT PER MECHANICAL DRAWINGS
  - 23.81.B SPLIT-SYSTEM HVAC UNIT, OUTDOOR UNIT PER MECHANICAL DRAWINGS

- ### ROOF PLAN GENERAL NOTES
1. REFER TO MECHANICAL SHEETS FOR MECHANICAL EQUIPMENT INFORMATION
  2. ALL ROOFING SHALL BE CLASS "A"
  3. NOTE: FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. SEE LIST OF DEFERRED APPROVALS ON G-001

- ### ROOF DRAIN CALCULATIONS
- ROOF AREA @ GRID 1-8 AND C (SIM. OPPOSITE SIDE)
- DOWNSPOUTS: 4  
 AREA DRAINED PER DOWNSPOUT: 880 SF  
 RAIN INTENSITY: 170 SF/SQ IN
- MINIMUM AREA PER DOWNSPOUT:  
 880/170 = 4.9 SQ IN ~3" ROUND DOWNSPOUTS (TYP)
- RECTANGULAR GUTTER LENGTH = 88'  
 MAX GUTTER LENGTH = 90'-0"  
 # OF EXPANSION JOINTS = 1  
 GUTTER WIDTH = 6"  
 GUTTER DEPTH = 4.5"

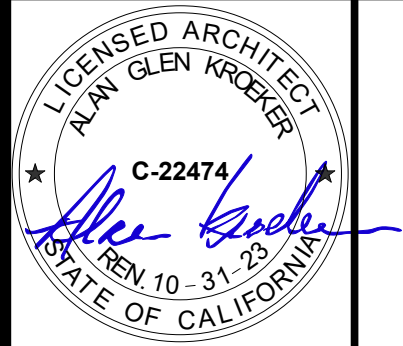
AGENCY APPROVAL DSA 03-121912



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1	05-13-2022	Addendum 4

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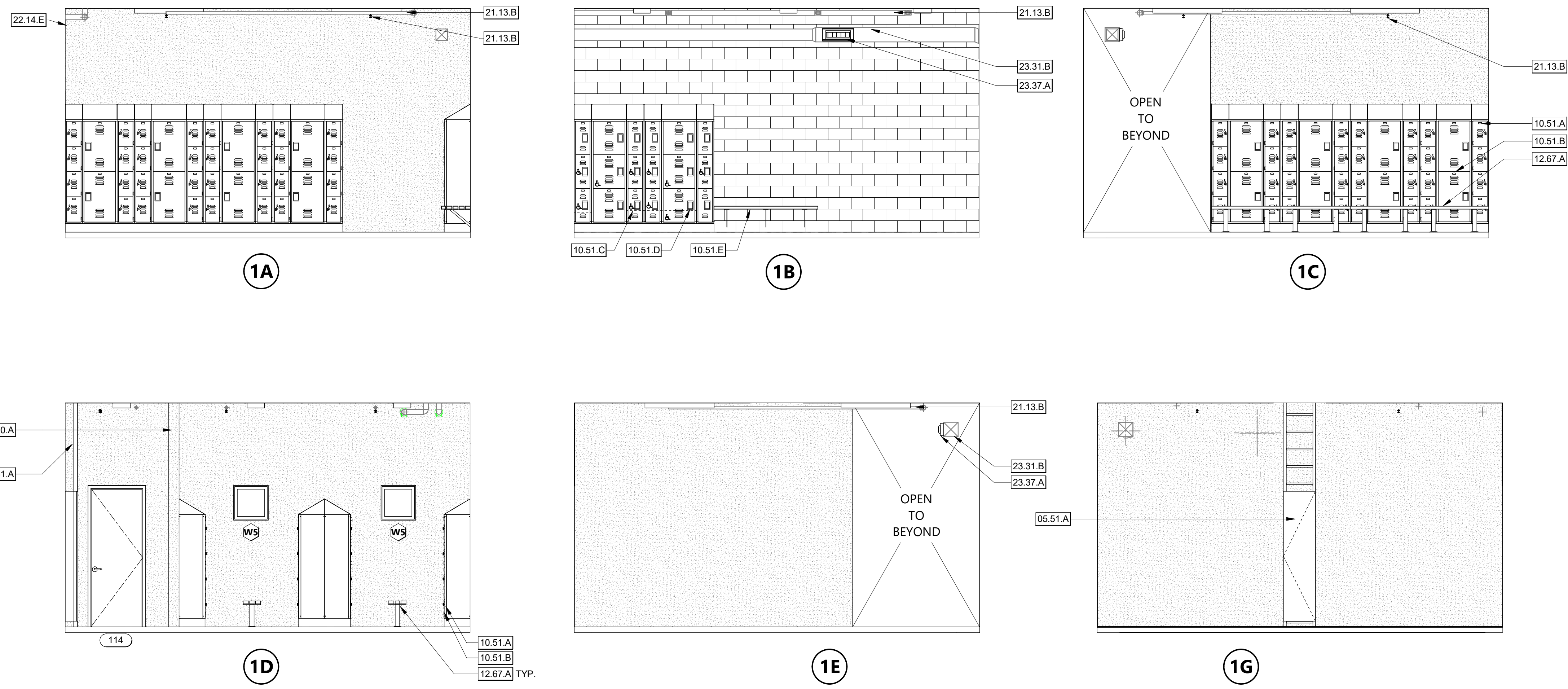
SHEET TITLE  
**ROOF PLAN**

DRAWN BY: FC, HC JOB NUMBER: 20179.01  
 SHEET NO.

**A-221**  
 DATE: MAY 10, 2022



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GIRLS' LOCKER ROOM - 114 1/4" = 1'-0" 1

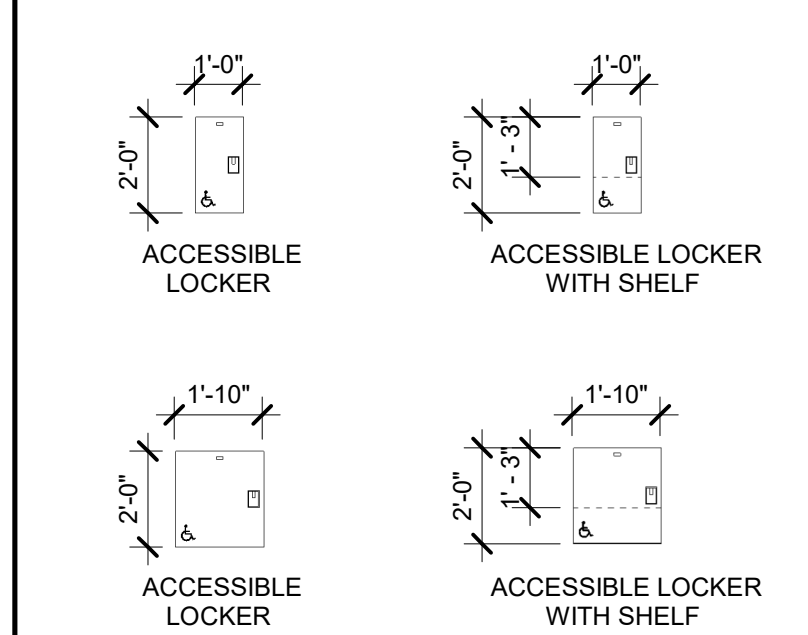
- KEYNOTES**
- 05.51.A ALUMINUM ACCESS LADDER WITH COVER
  - 06.10.A WOOD STUD WALL PER STRUCTURAL DRAWINGS
  - 10.11.A VINYL WRAPPED TACKBOARD PANELS
  - 10.14.F ALS SIGNAGE. SEE SHEET A-831 (SIGNAGE DETAILS).
  - 10.51.A 12" WIDE X 72" TALL X 18" DEEP - 4-TIER LOCKERS
  - 10.51.B 24" WIDE X 72" TALL X 18" DEEP - 2-TIER LOCKERS
  - 10.51.C 12" WIDE X 72" TALL X 18" DEEP - 3-TIER ACCESSIBLE LOCKERS
  - 10.51.D 24" WIDE X 72" TALL X 18" DEEP - 3-TIER ACCESSIBLE LOCKERS
  - 10.51.E BENCH TO COMPLY WITH C.B.C. 11B-903
  - 12.56.D TEACHING WALL CABINET WITH TV. MOUNT
  - 12.67.A BENCH
  - 21.13.B FIRE SPRINKLER HEAD PER FIRE SUPPRESSION DRAWINGS
  - 22.14.E ROOF DRAIN PIPING
  - 22.43.A ACCESSIBLE WALL MOUNTED SINK
  - 23.31.B EXPOSED MECHANICAL DUCT PER MECHANICAL DRAWINGS. PAINTED
  - 23.37.A SUPPLY REGISTER PER MECHANICAL DRAWINGS

AGENCY APPROVAL DSA 03-121912

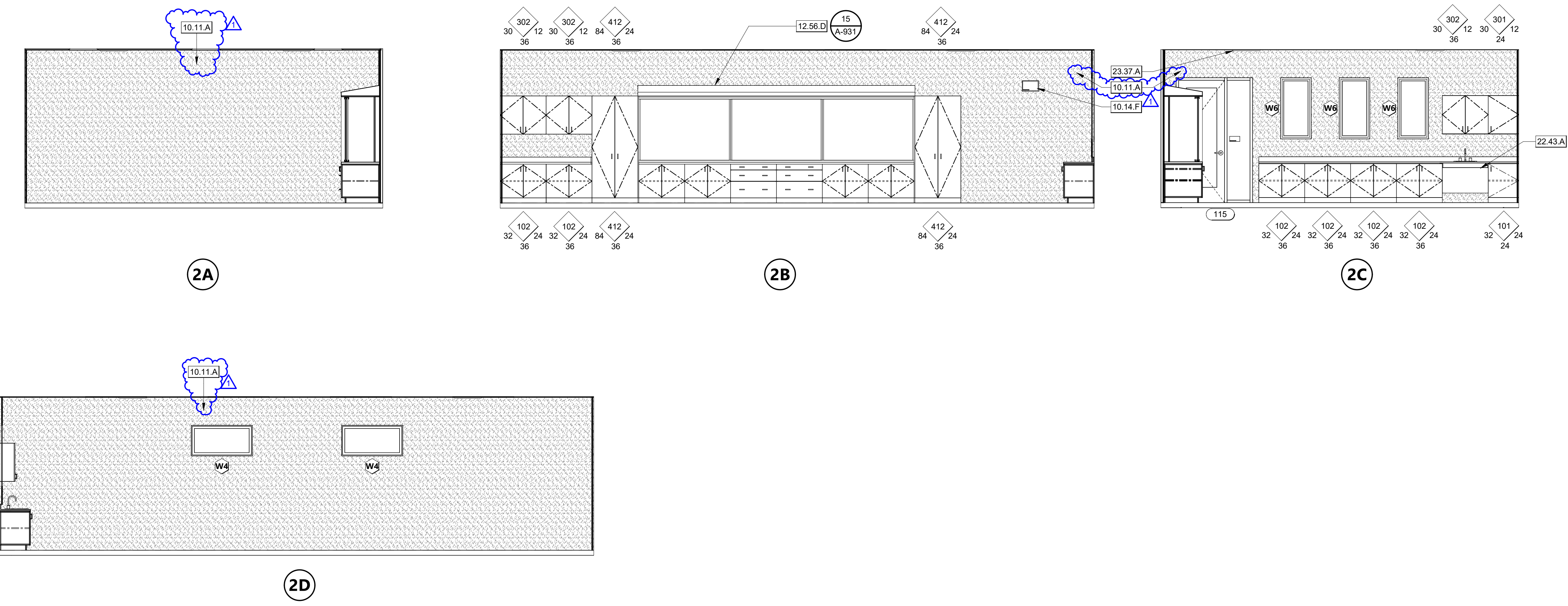
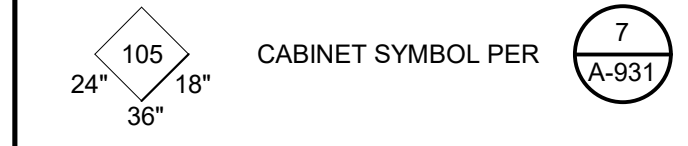


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**ACCESSIBLE LOCKER LEGEND**



**CASEWORK LEGEND**



CLASSROOM - 115 1/4" = 1'-0" 2

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1	05/13/2022	Addendum 4

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SHEET TITLE  
**INTERIOR ELEVATIONS**

DRAWN BY: HC JOB NUMBER: 20179.01

SHEET NO.  
**A-605**  
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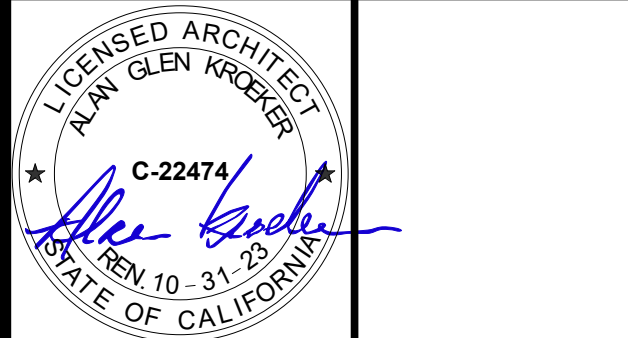


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NO.	DATE	DESCRIPTION
1	04-27-2022	Addendum 2
2	05-06-2022	Addendum 3
3	05-13-2022	Addendum 4

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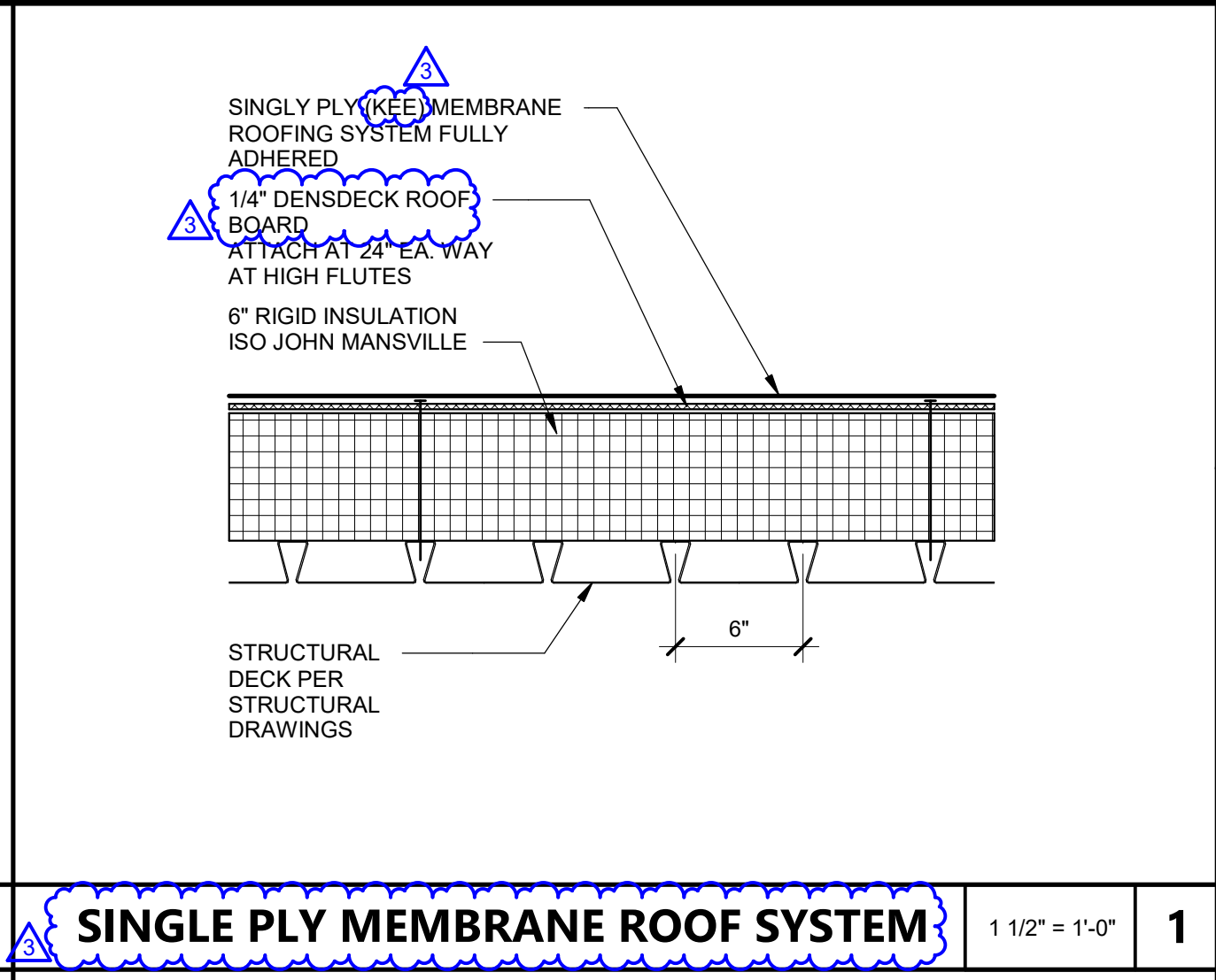
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**EXTERIOR DETAILS**

DRAWN BY: Author JOB NUMBER: 20179.01

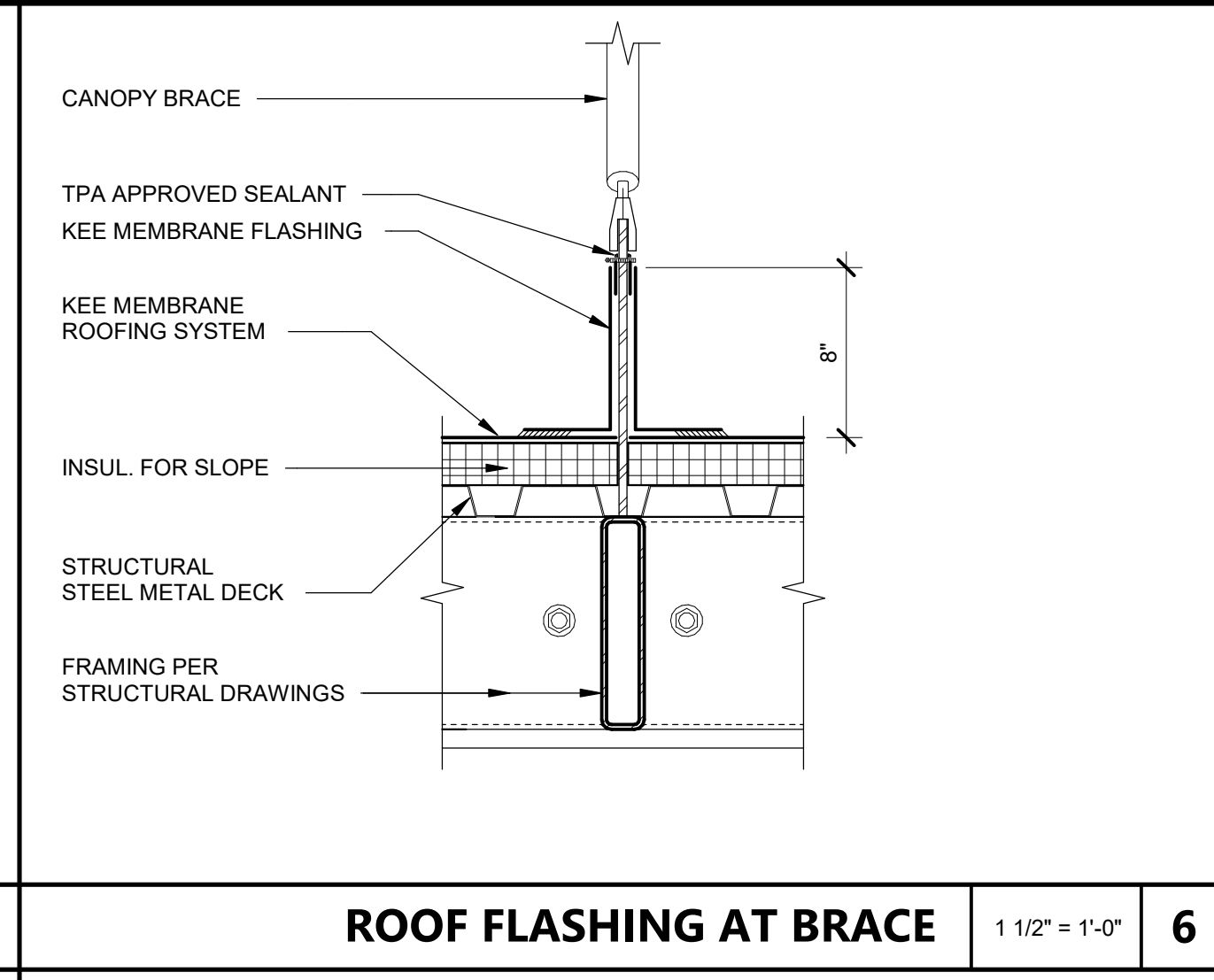
SHEET NO.

**A-702**

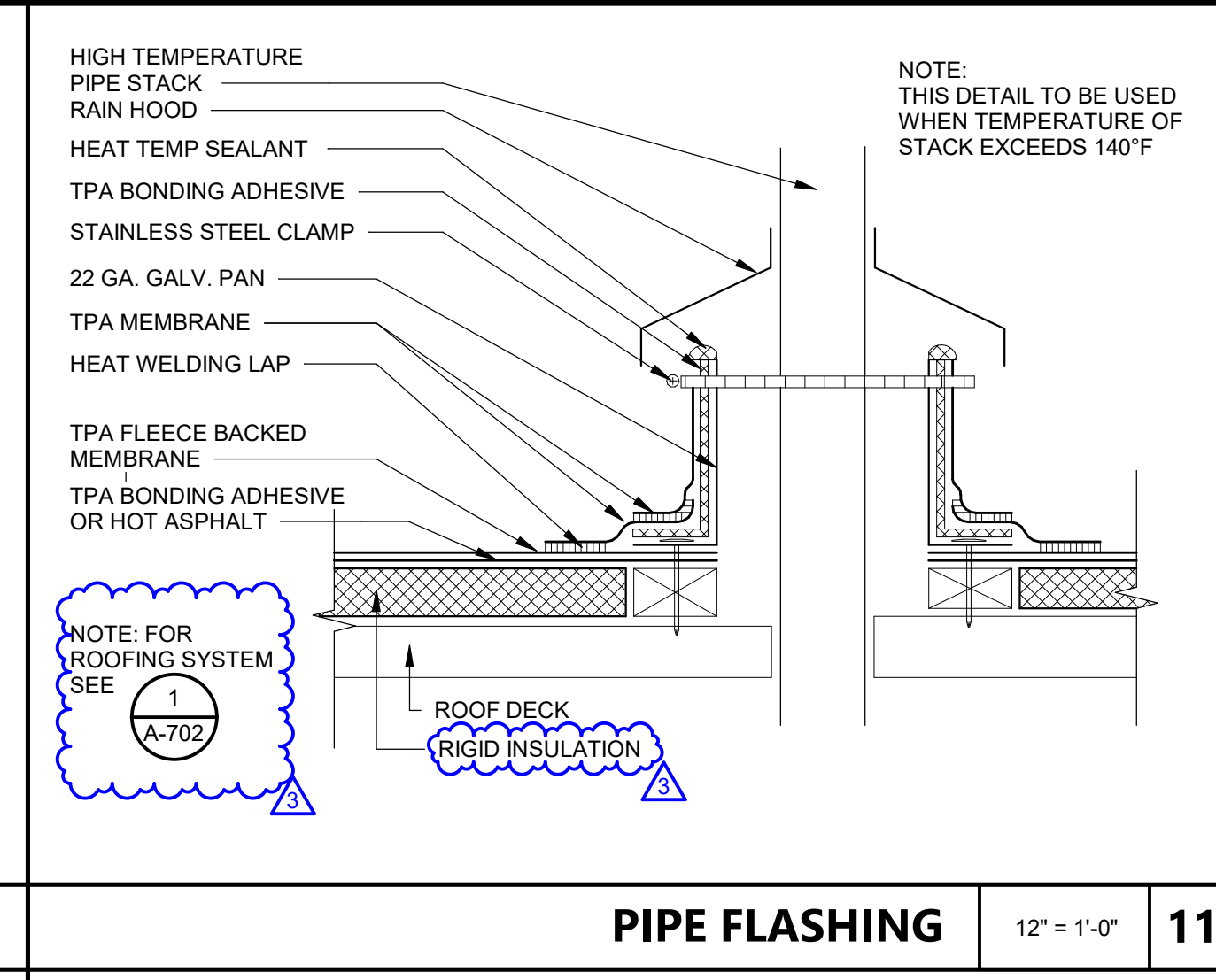
DATE: MAY 10, 2022



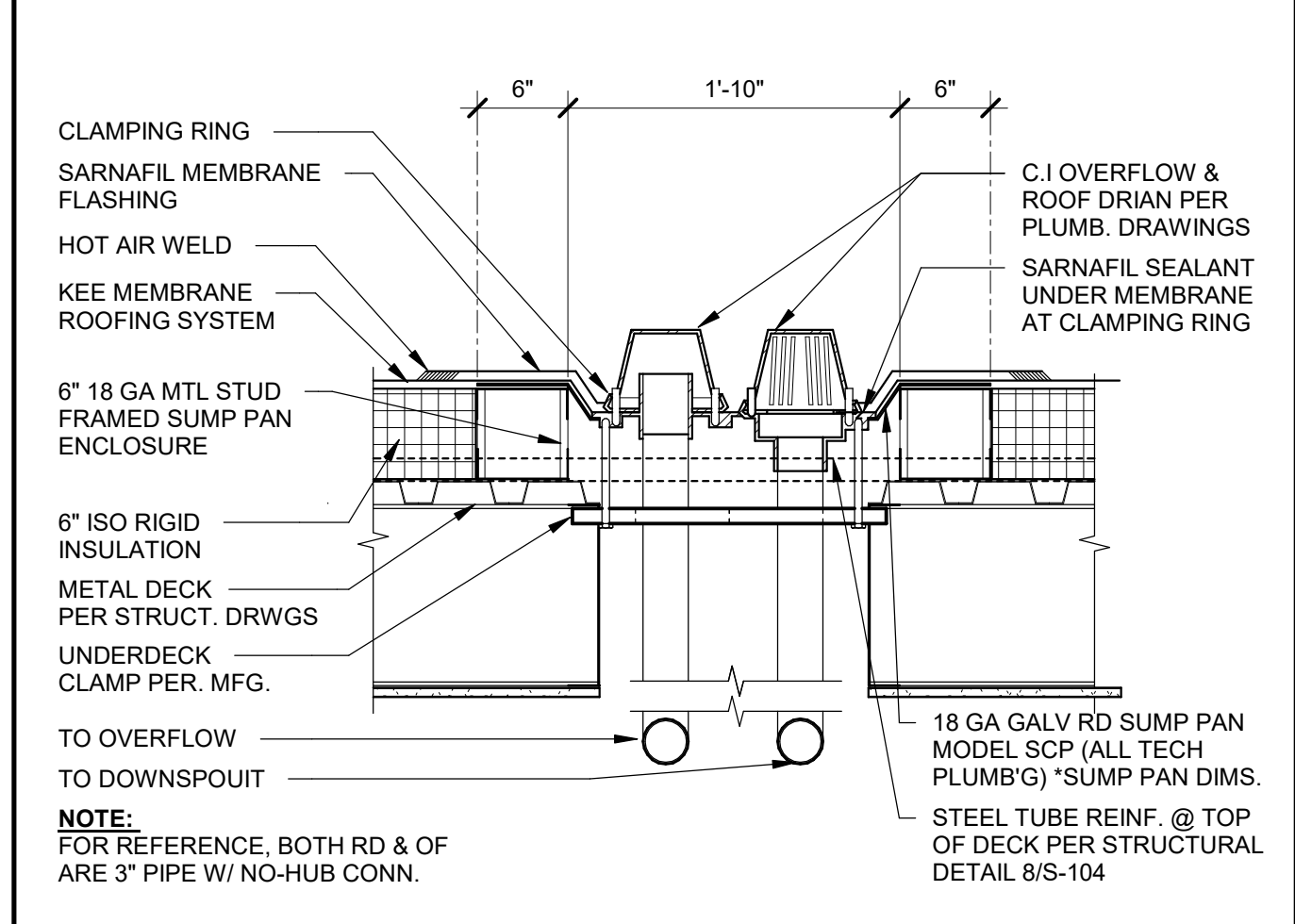
**SINGLE PLY MEMBRANE ROOF SYSTEM** 1 1/2" = 1'-0" 1



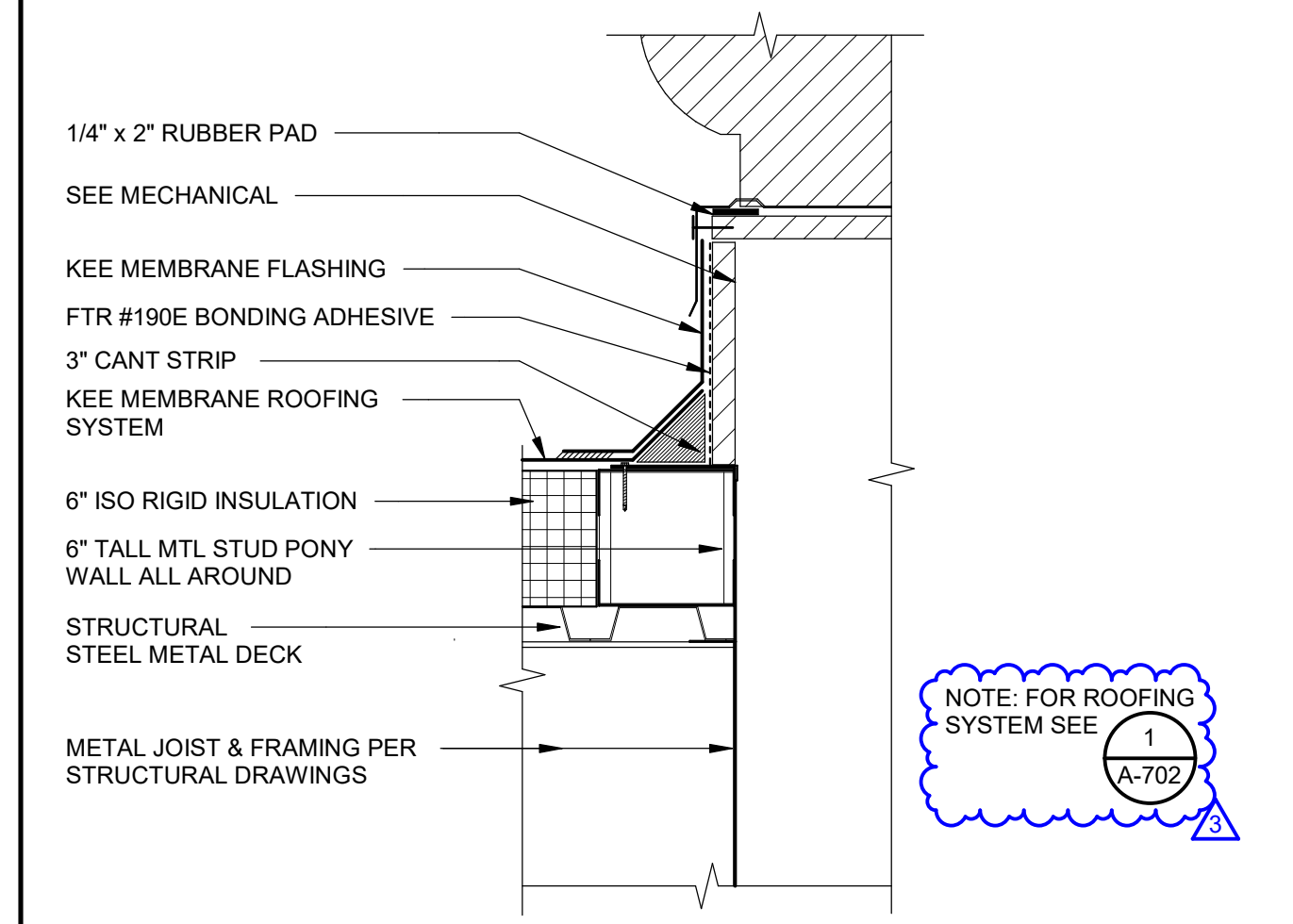
**ROOF FLASHING AT BRACE** 1 1/2" = 1'-0" 6



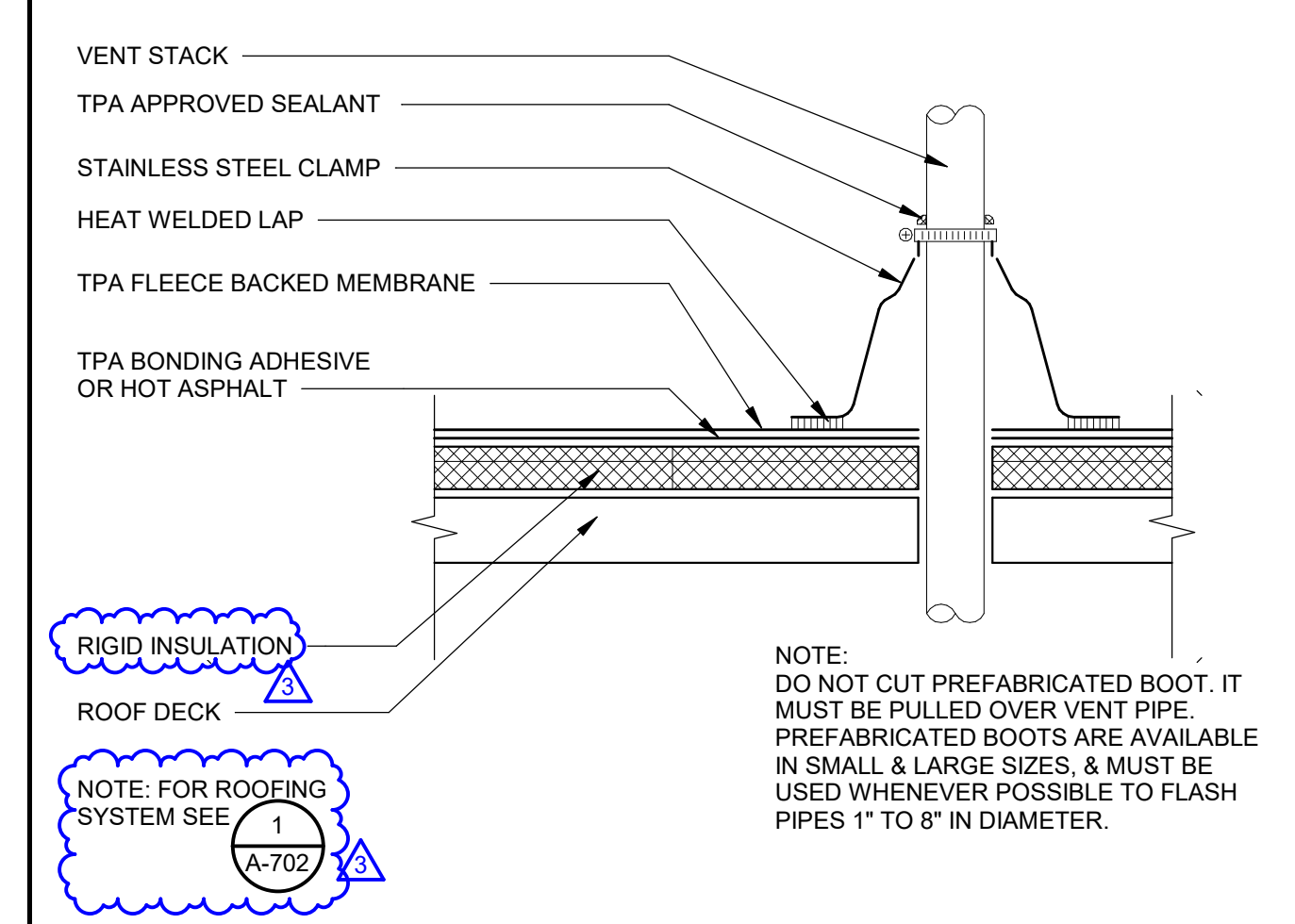
**PIPE FLASHING** 12" = 1'-0" 11



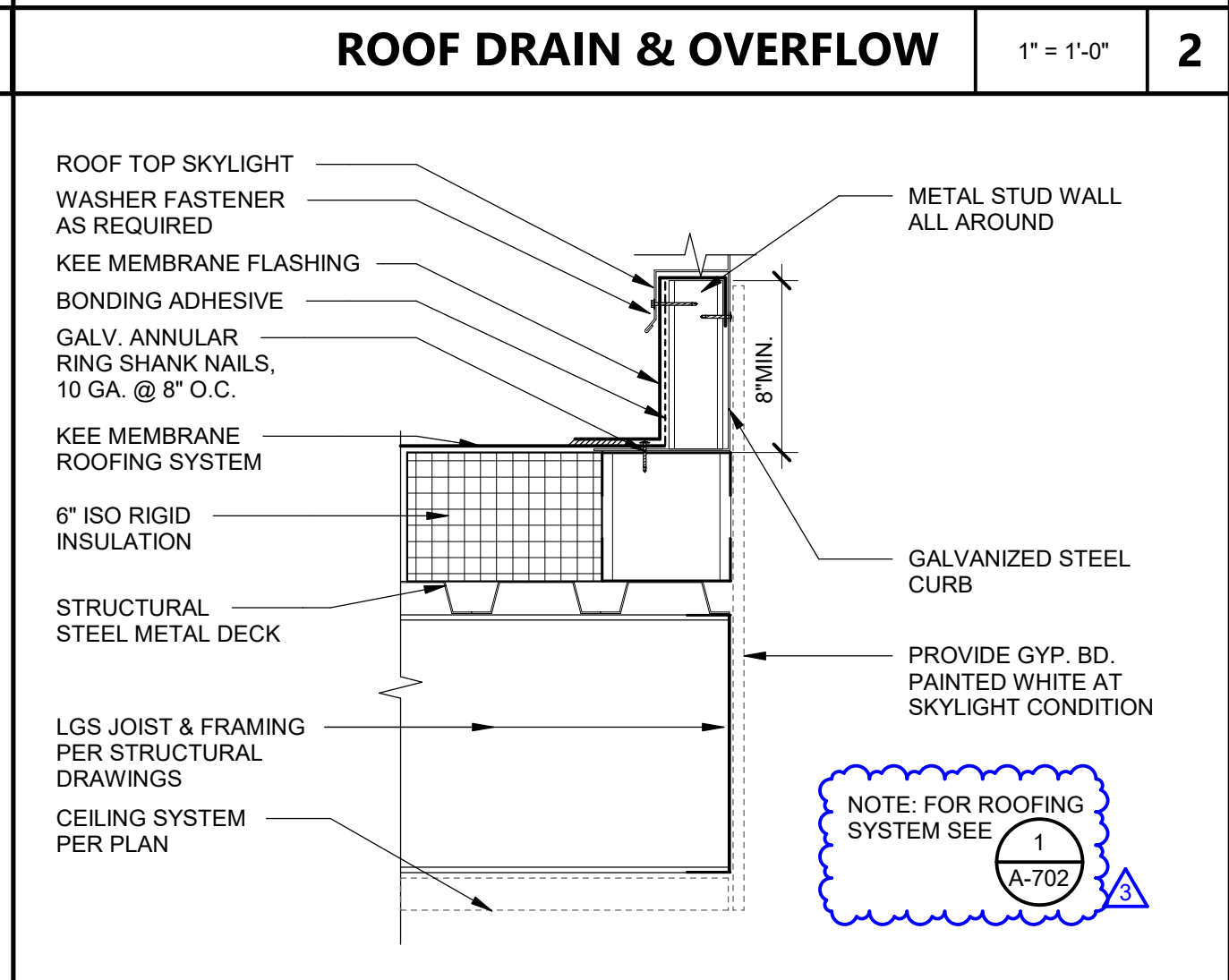
**ROOF DRAIN & OVERFLOW** 1" = 1'-0" 2



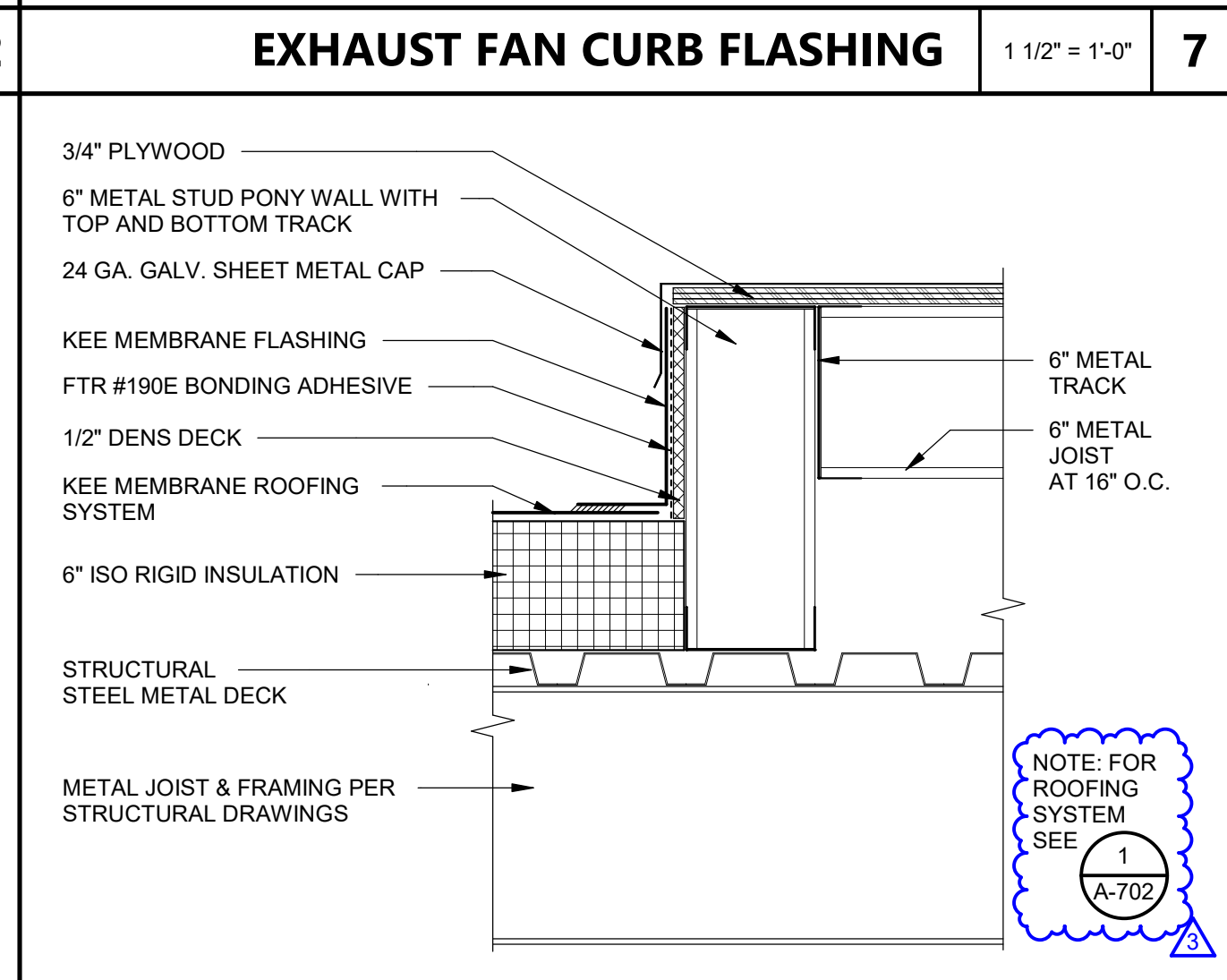
**EXHAUST FAN CURB FLASHING** 1 1/2" = 1'-0" 7



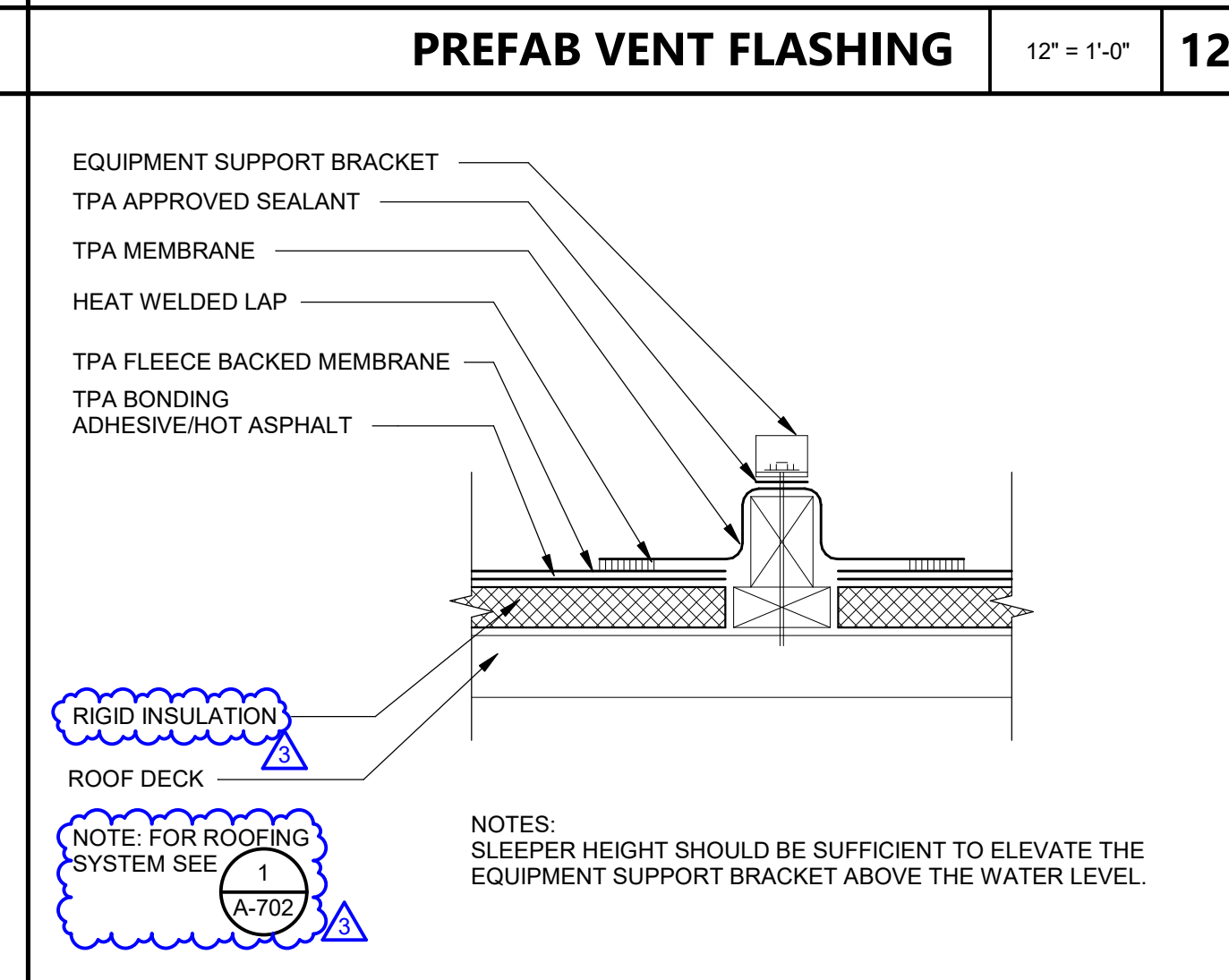
**PREFAB VENT FLASHING** 12" = 1'-0" 12



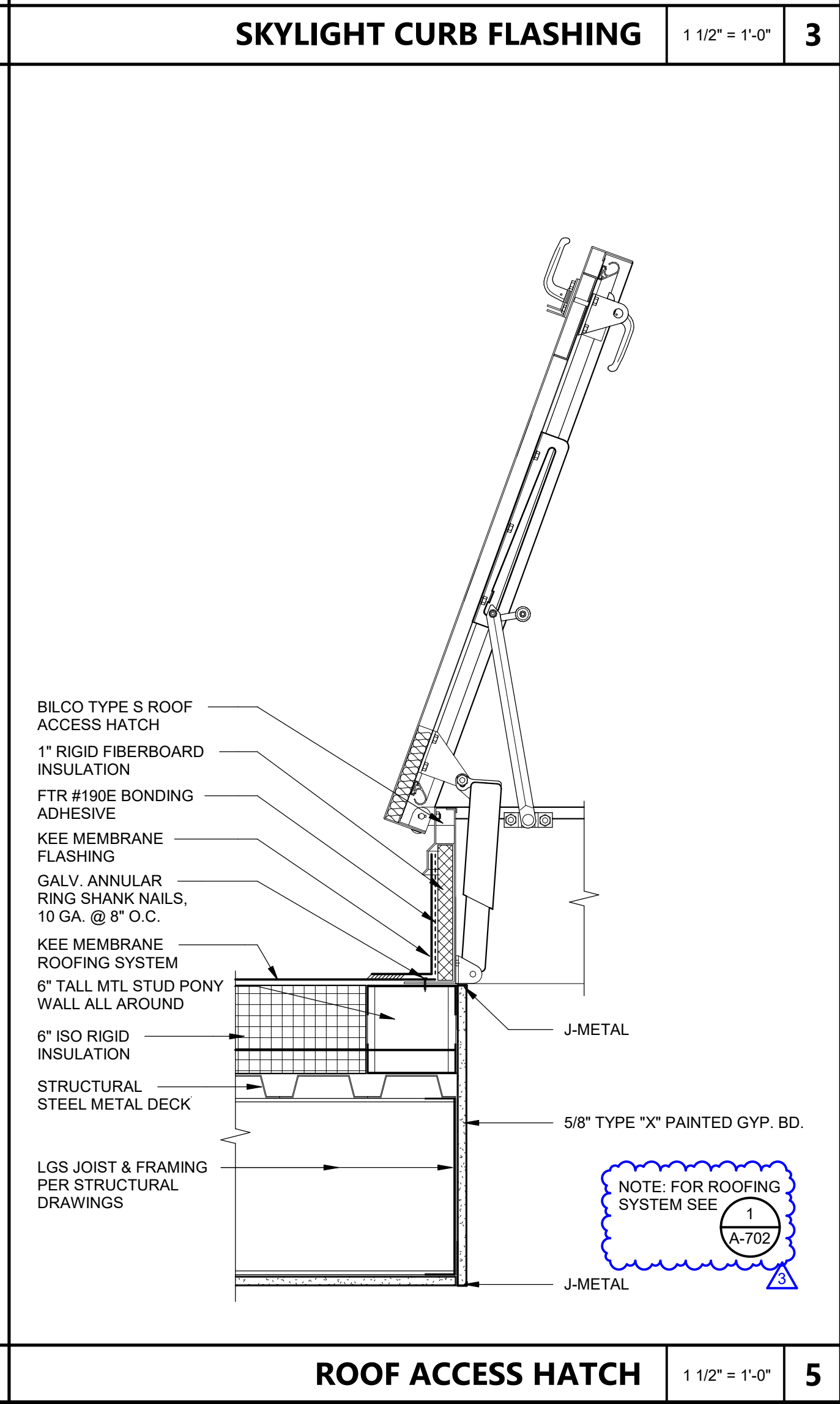
**SKYLIGHT CURB FLASHING** 1 1/2" = 1'-0" 3



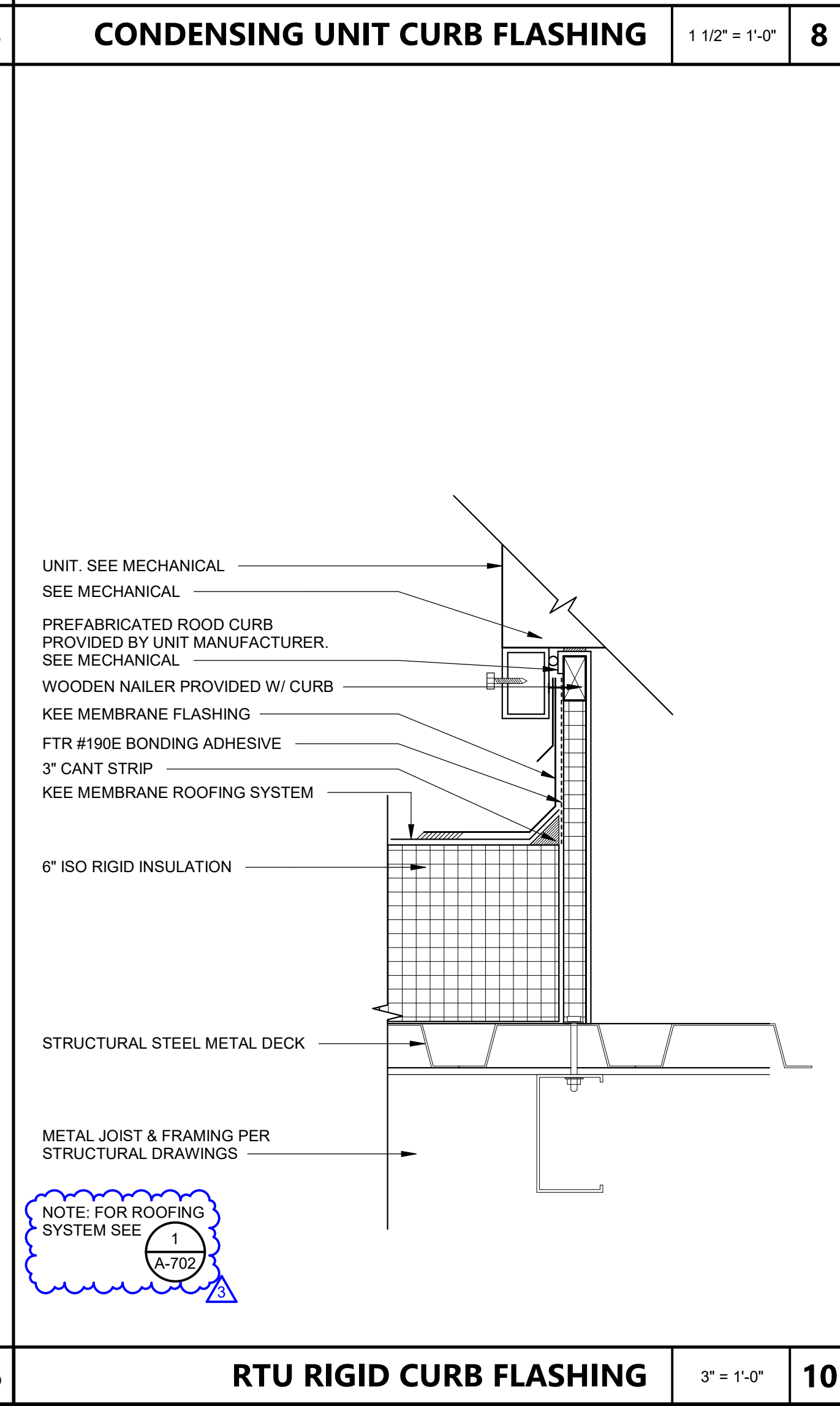
**CONDENSING UNIT CURB FLASHING** 1 1/2" = 1'-0" 8



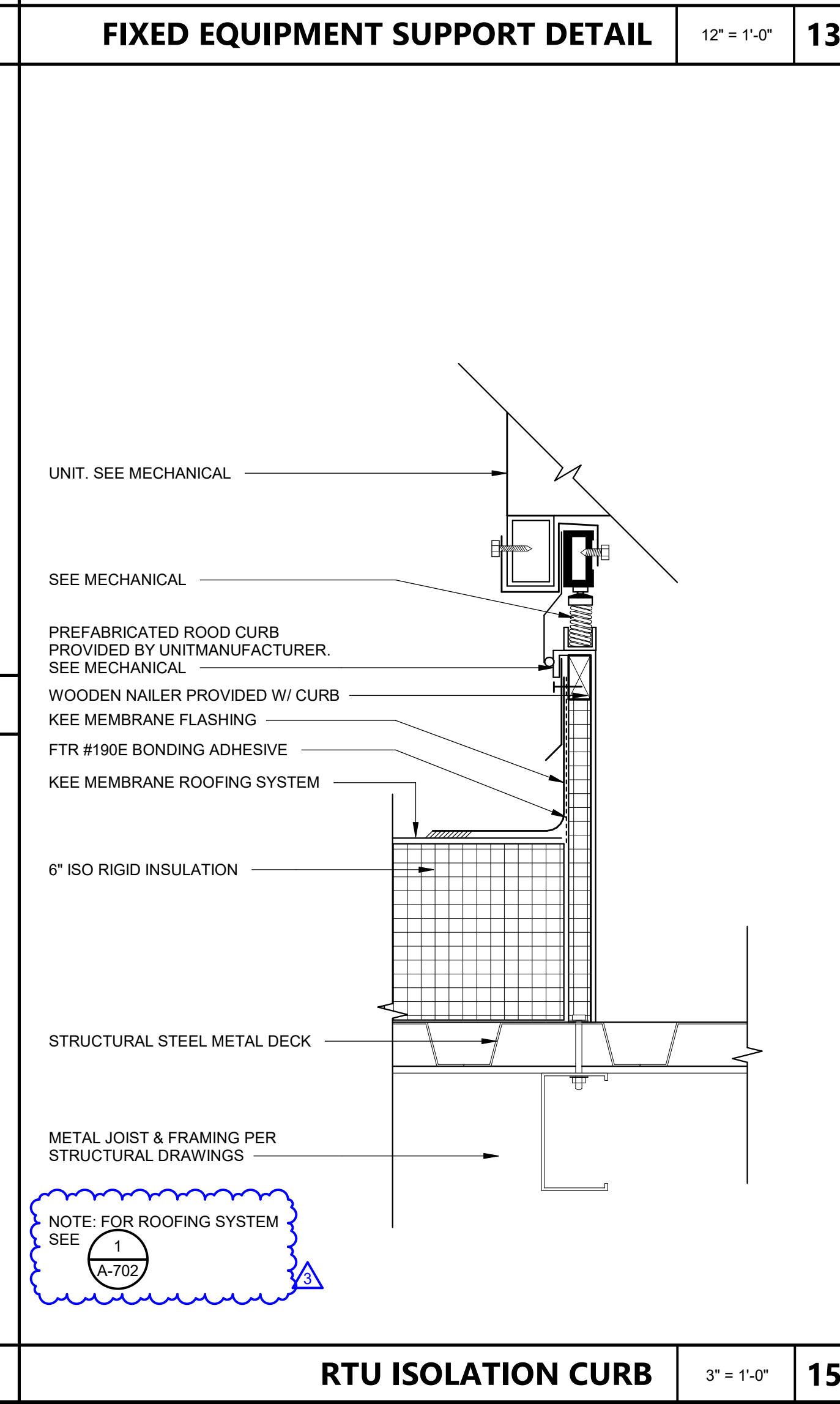
**FIXED EQUIPMENT SUPPORT DETAIL** 12" = 1'-0" 13



**ROOF ACCESS HATCH** 1 1/2" = 1'-0" 5



**RTU RIGID CURB FLASHING** 3" = 1'-0" 10



**RTU ISOLATION CURB** 3" = 1'-0" 15



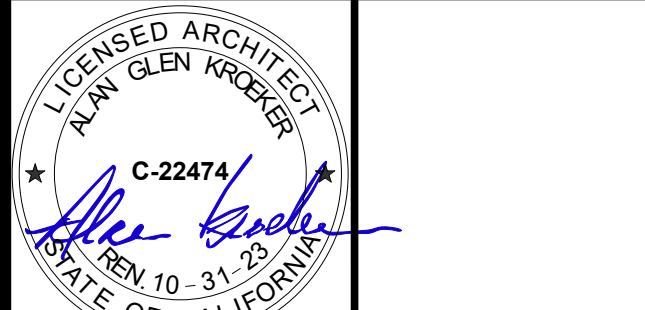


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1	04-19-2022	Addendum 1
2	05-13-2022	Addendum 4

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SHEET TITLE

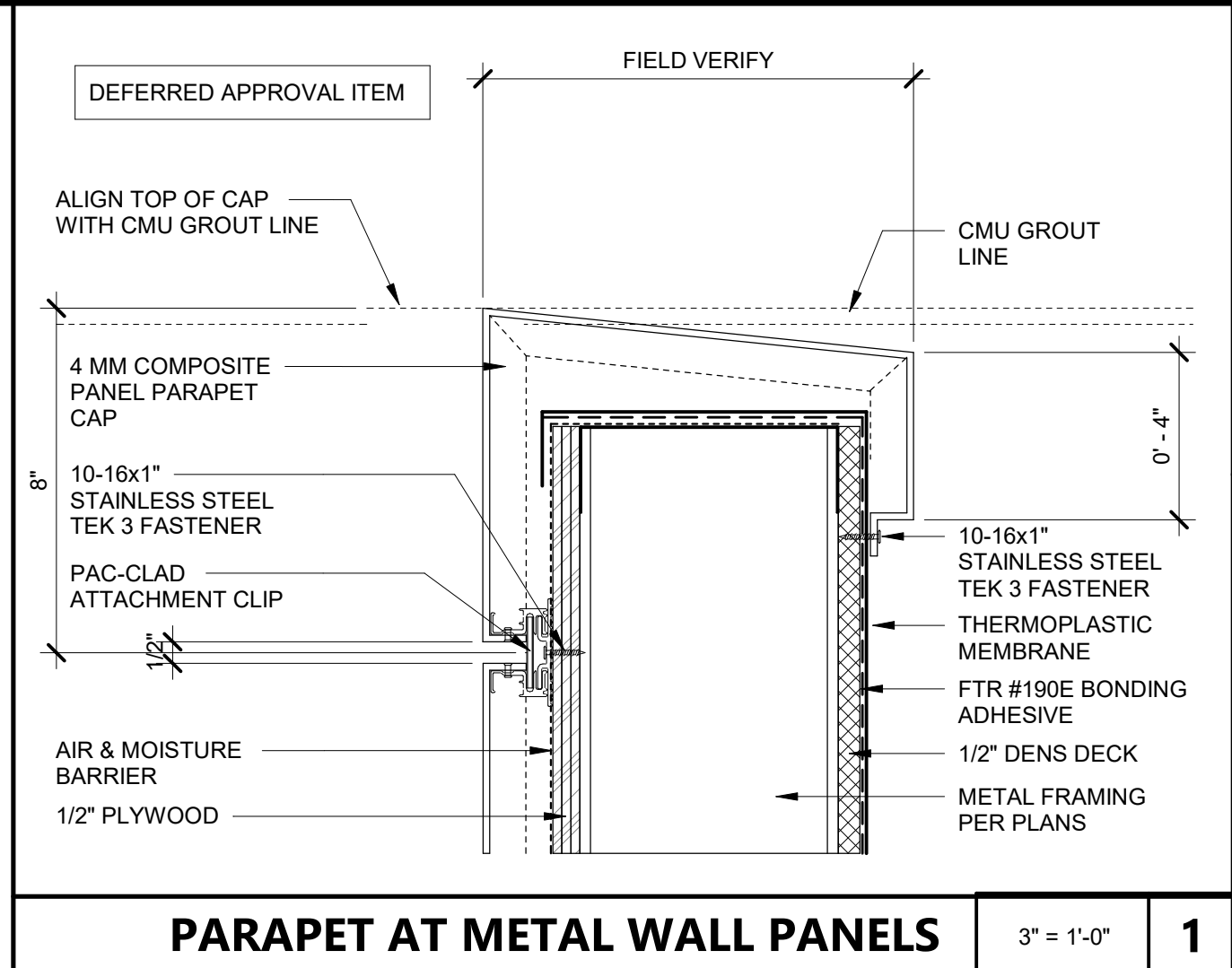
**EXTERIOR DETAILS**

DRAWN BY: Author JOB NUMBER: 20179.01

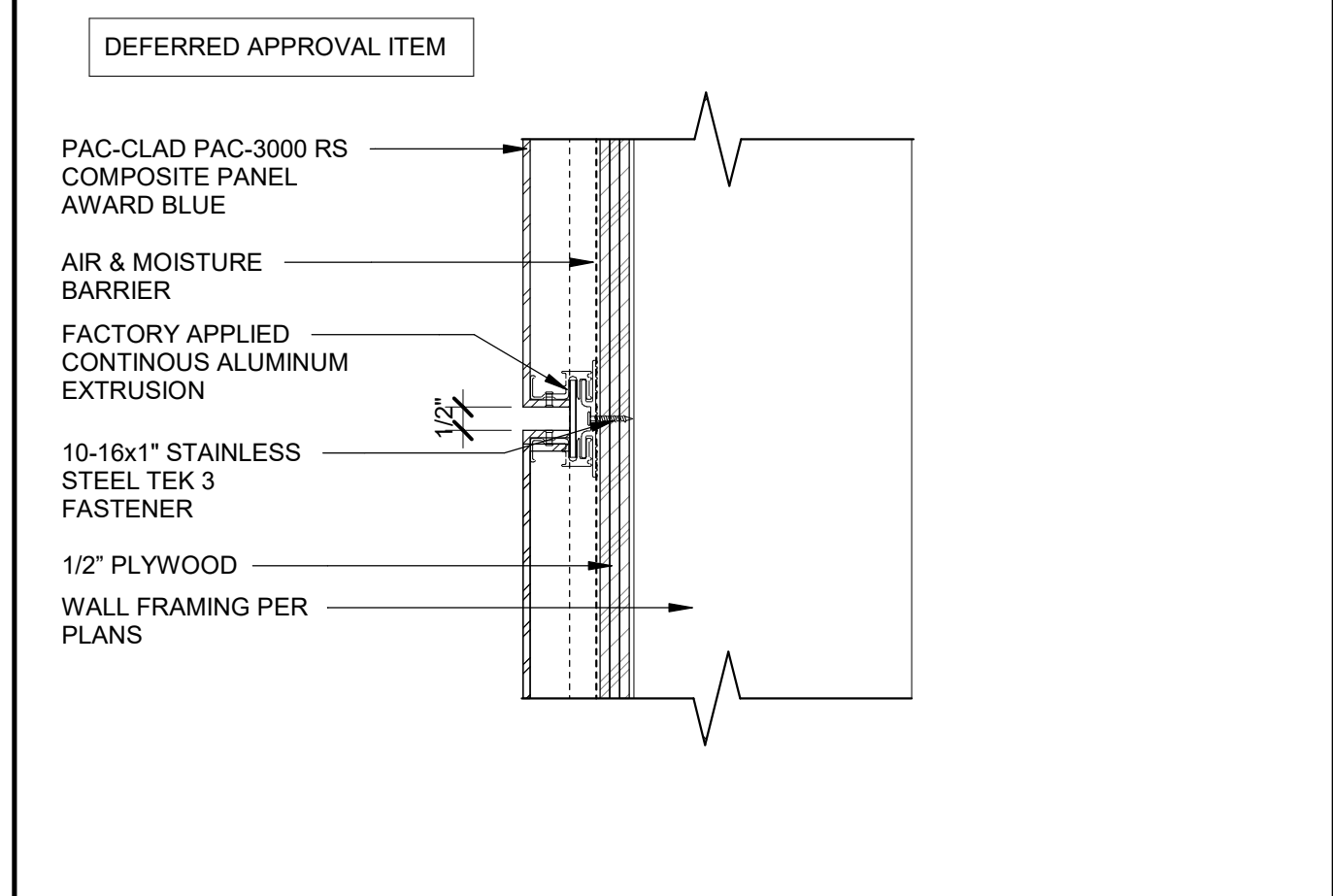
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**A-703**

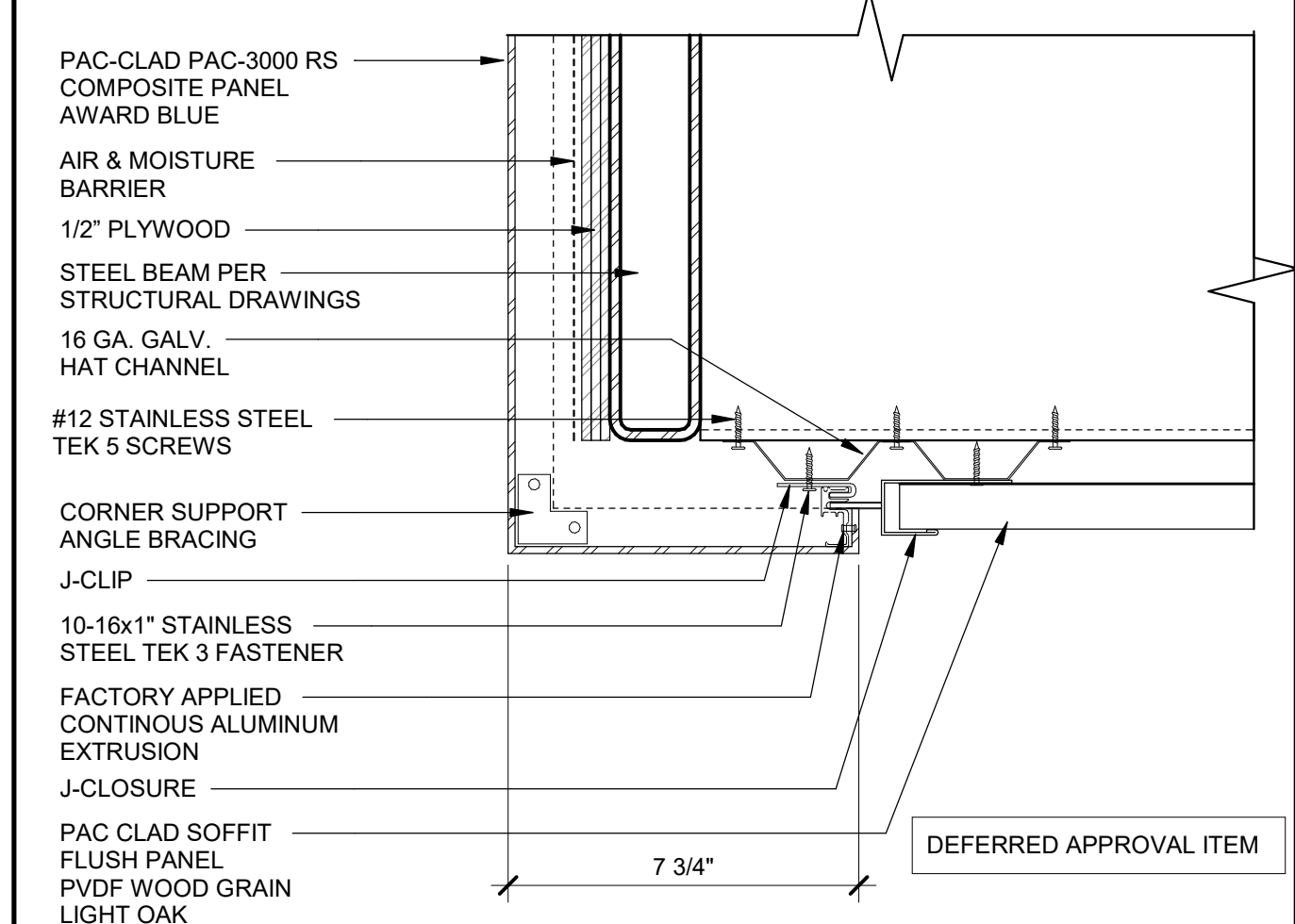
DATE: MAY 10, 2022



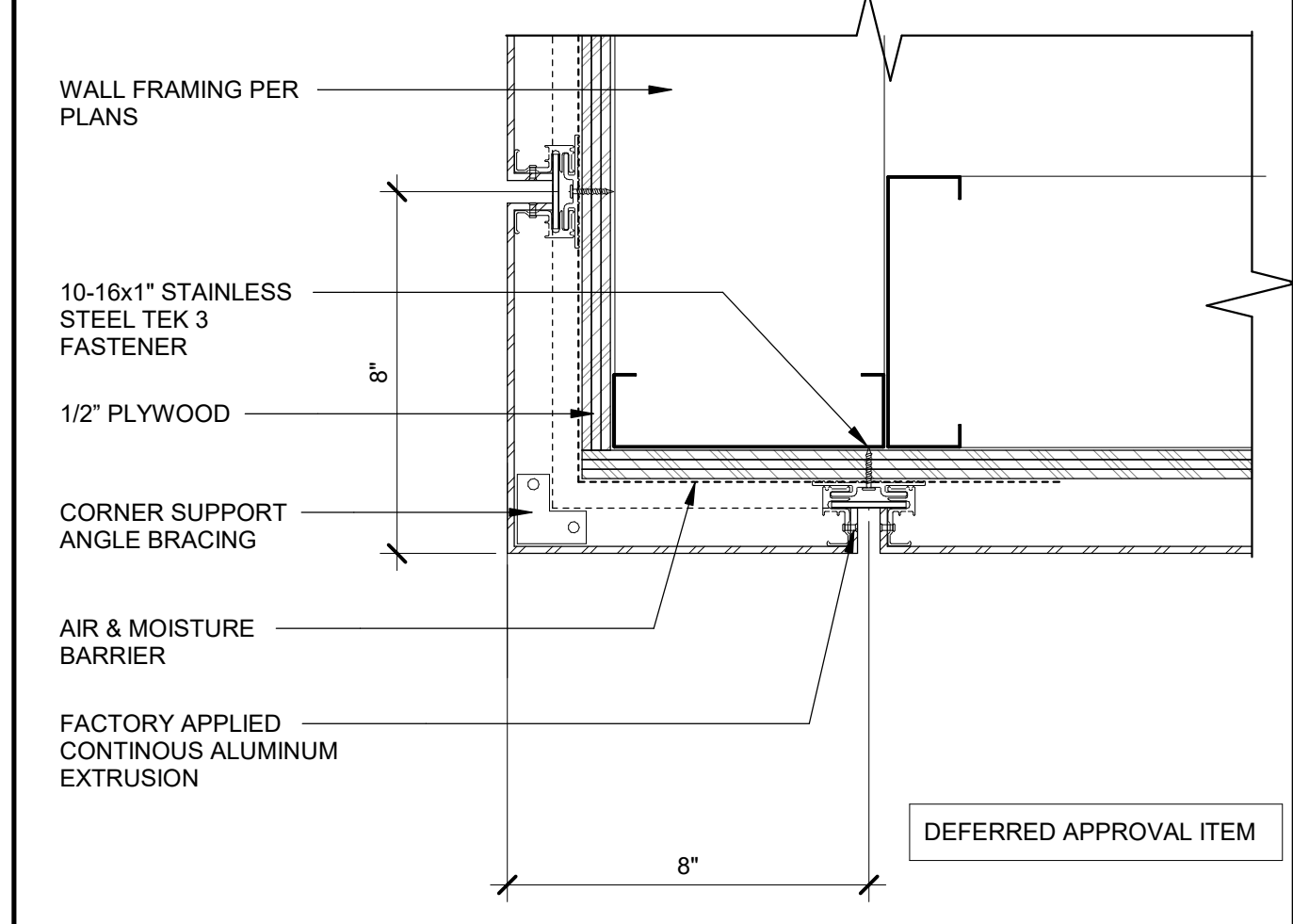
PARAPET AT METAL WALL PANELS 3" = 1'-0" 1



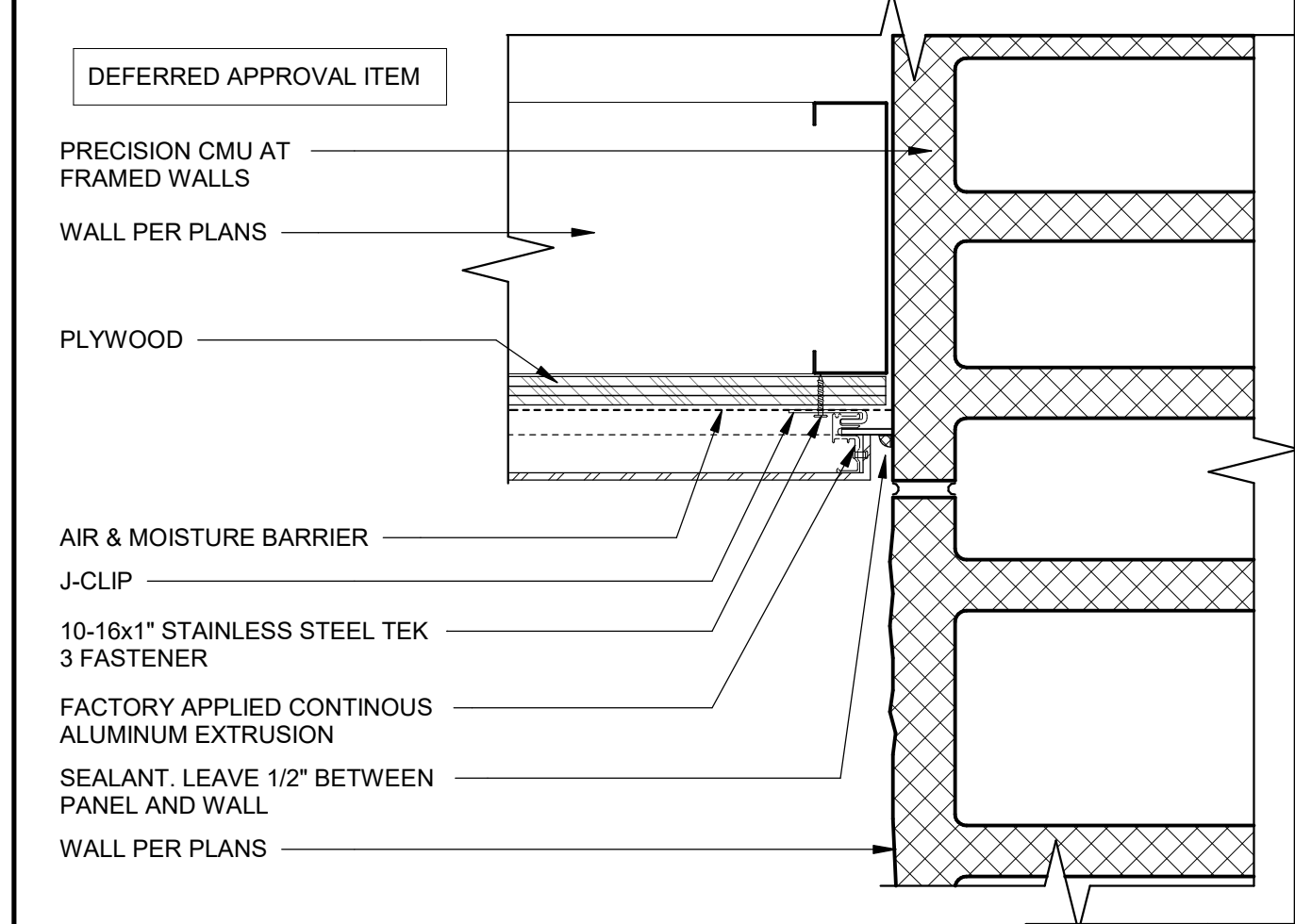
COMPOSITE PANEL JOINT 3" = 1'-0" 2



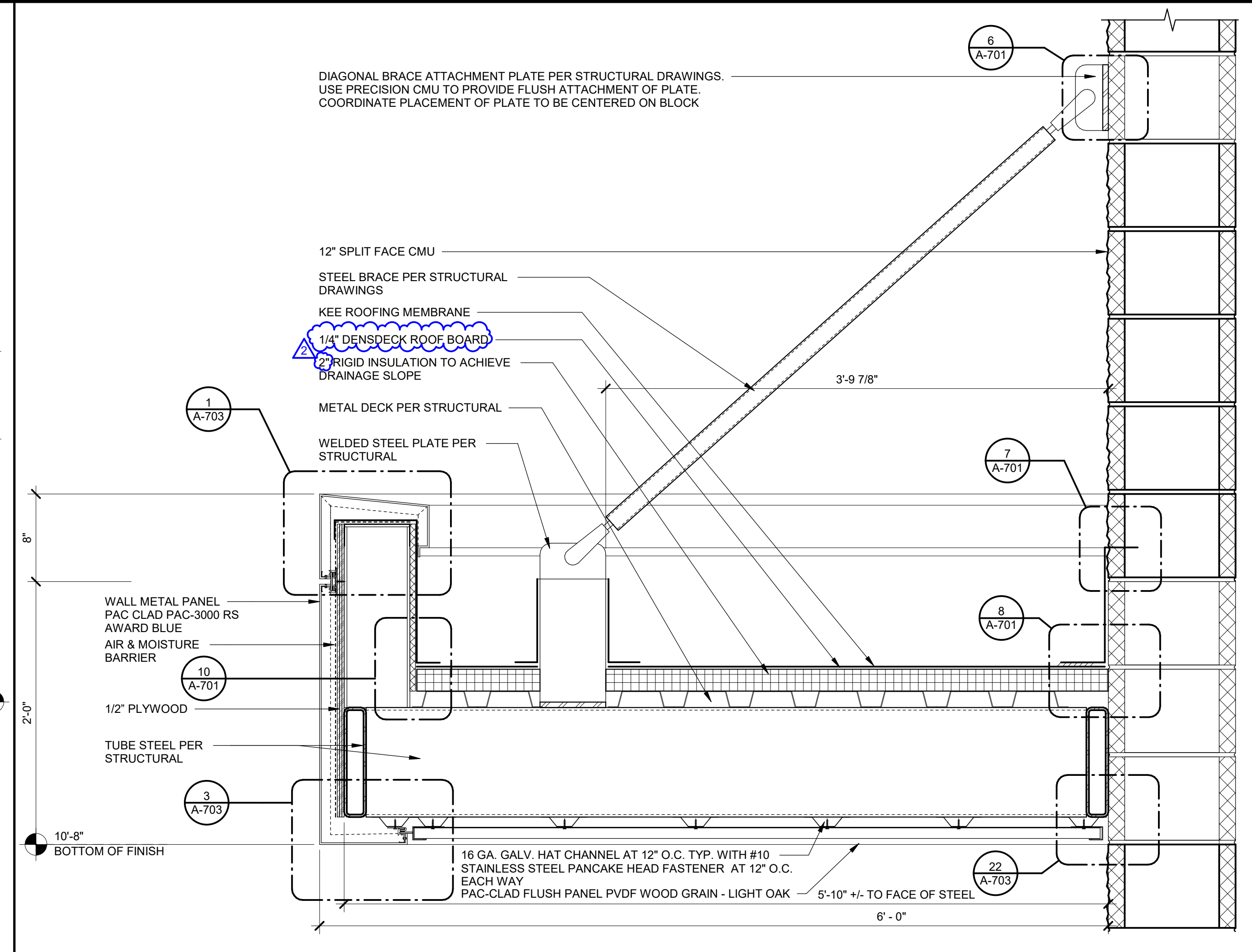
COMPOSITE PANEL SOFFIT 3" = 1'-0" 3



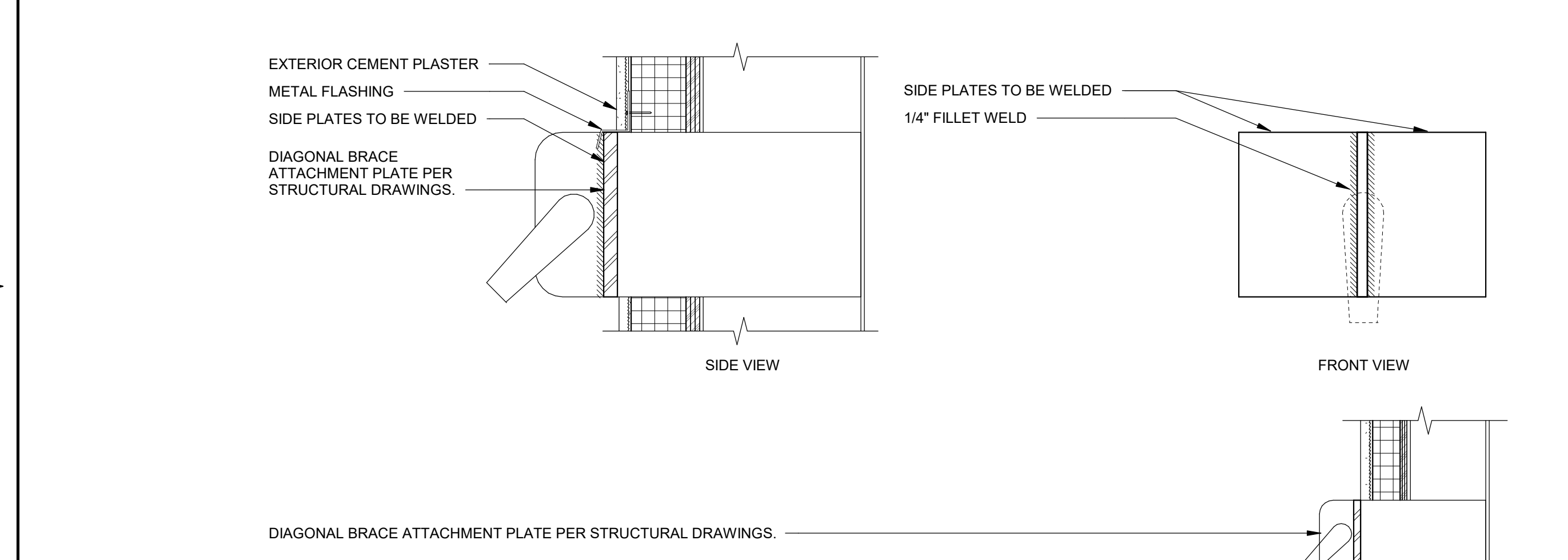
COMPOSITE PANEL OUTSIDE CORNER 3" = 1'-0" 4



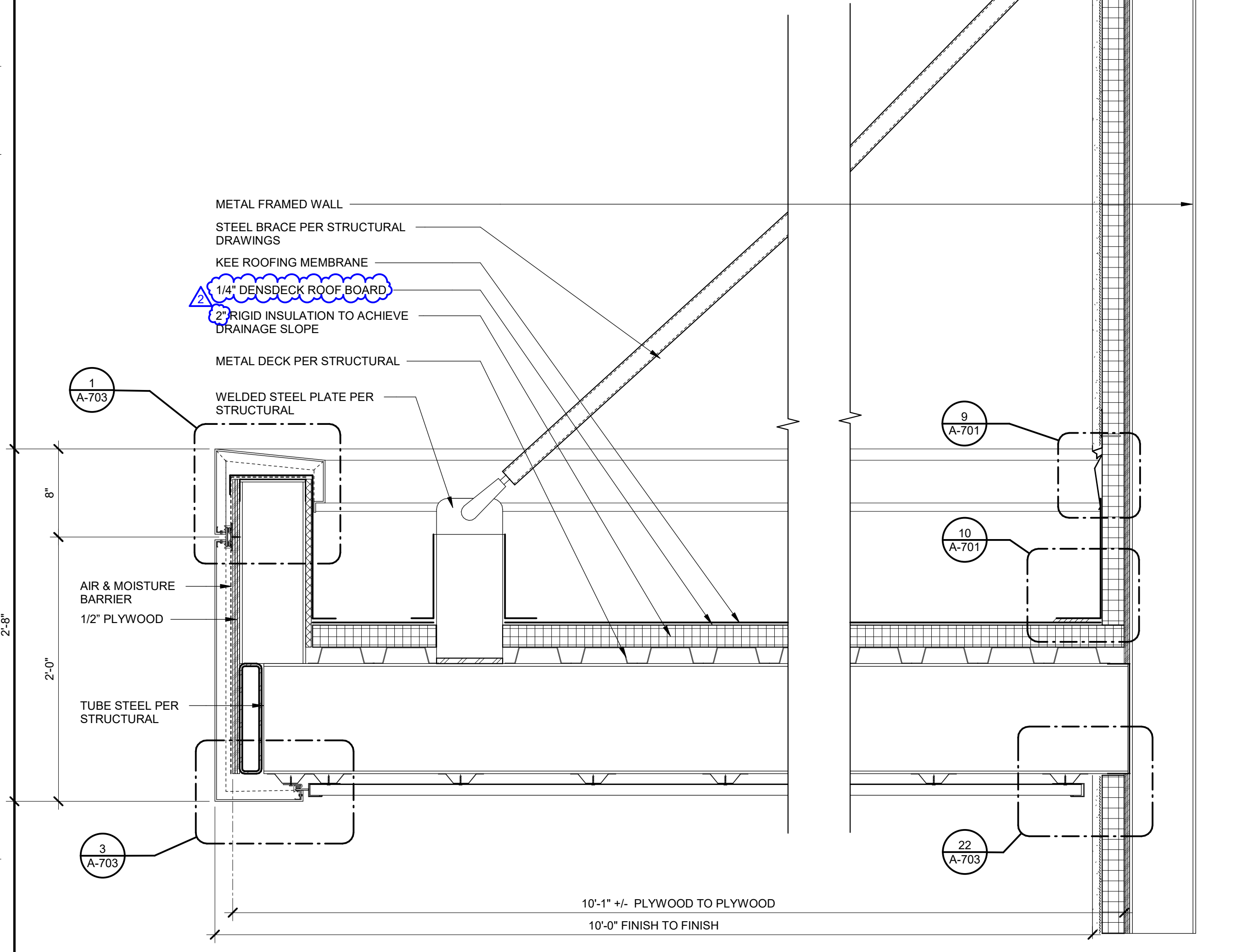
COMPOSITE PANEL AT SIDE WALL 3" = 1'-0" 5



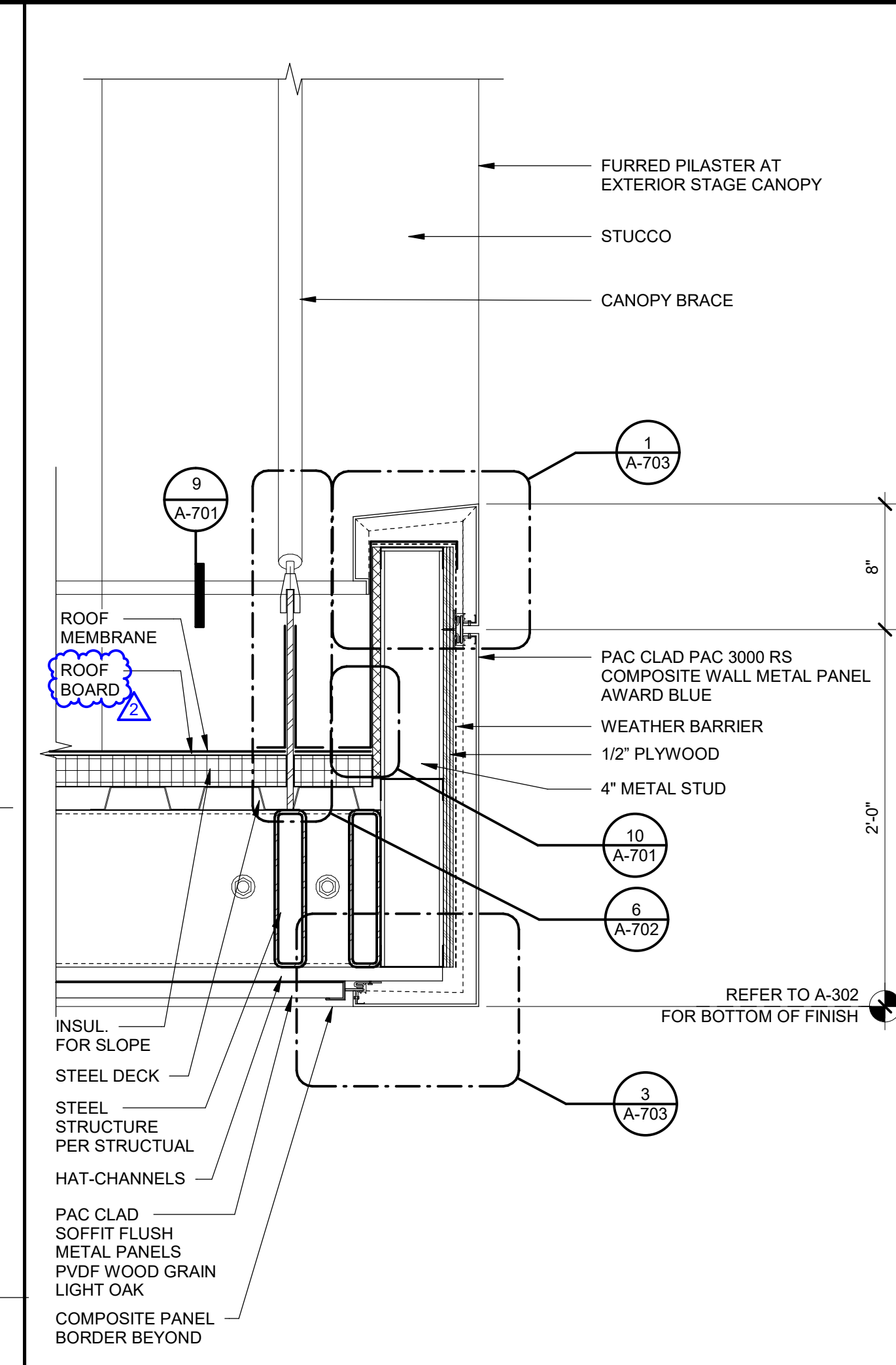
SMALL CANOPY AT CMU - SECTION 1 1/2" = 1'-0" 7



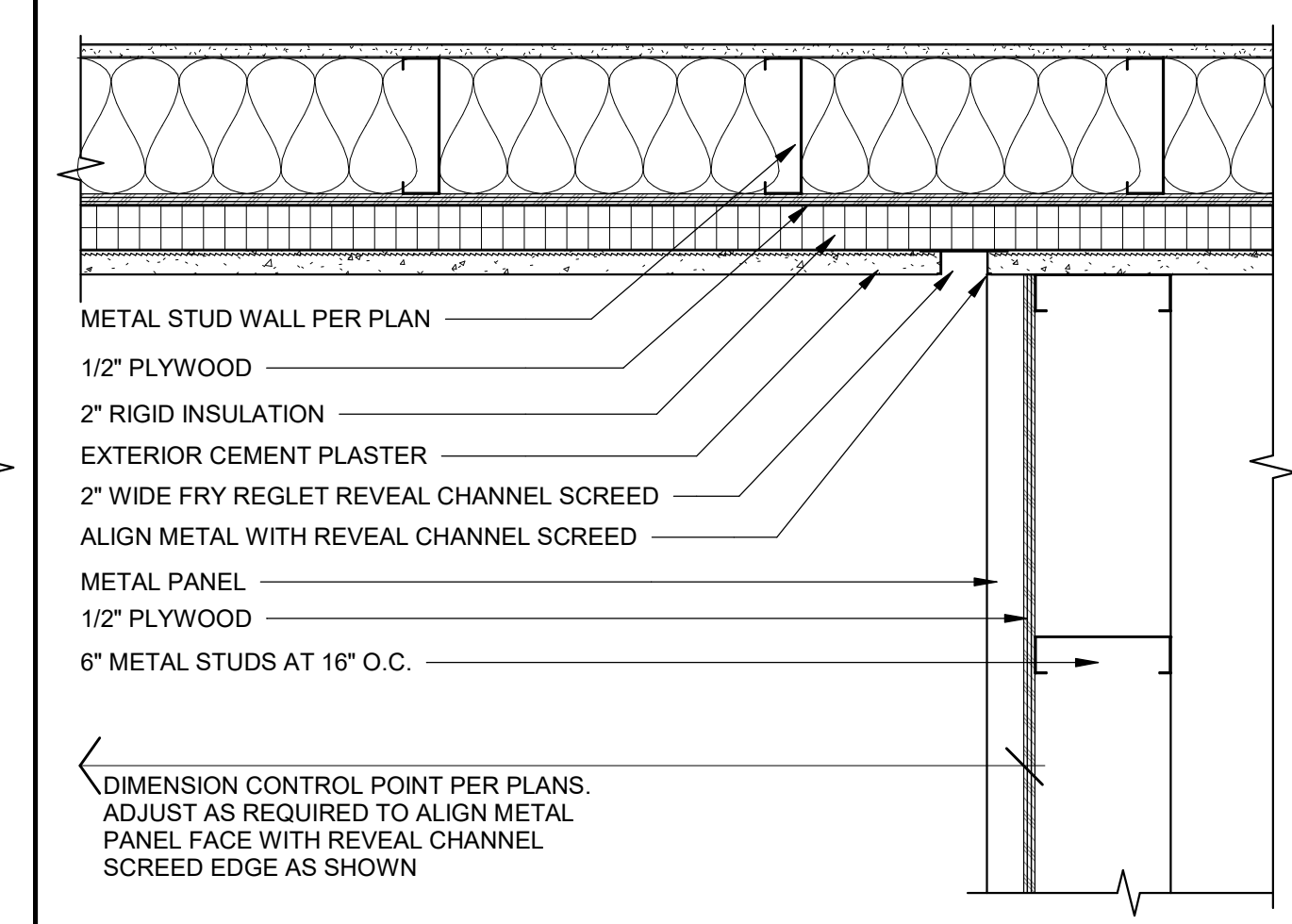
SMALL CANOPY AT STUCCO - PLAN 1 1/2" = 1'-0" 18



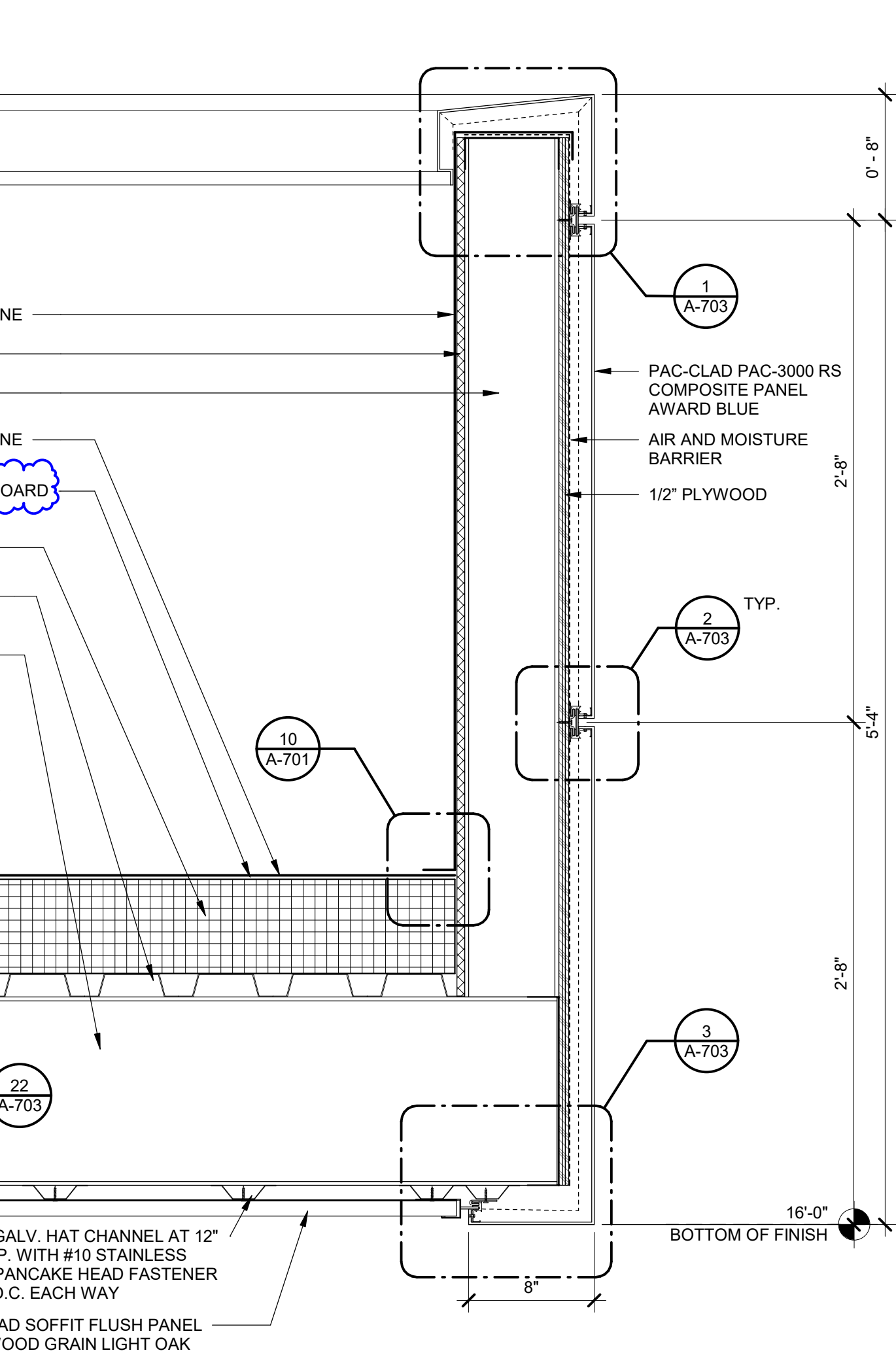
STAGE CANOPY SECTION 1 1/2" = 1'-0" 10



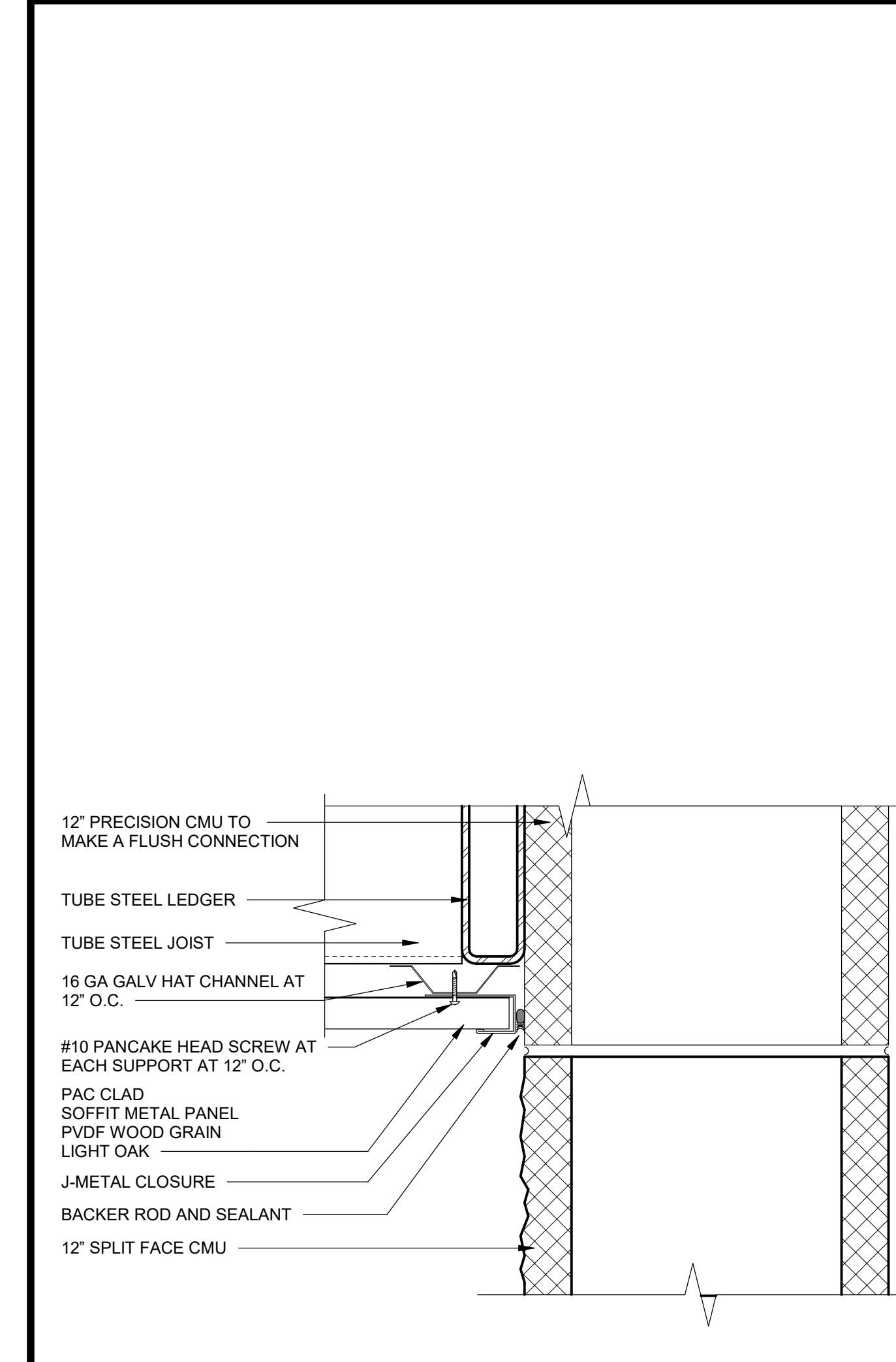
SMALL CANOPY AT CMU - SECTION 1 1/2" = 1'-0" 17



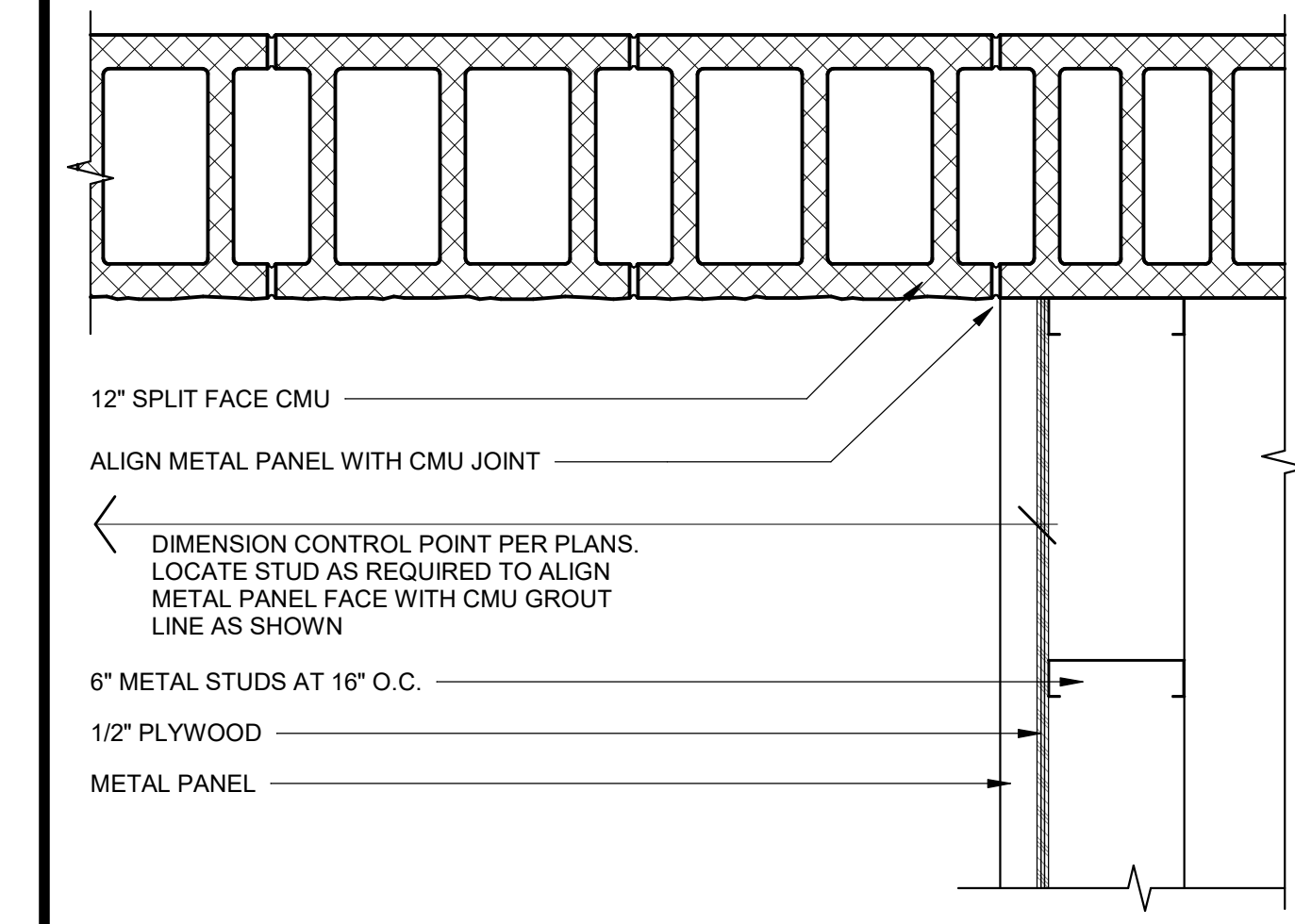
SMALL CANOPY AT STUCCO - PLAN 1 1/2" = 1'-0" 18



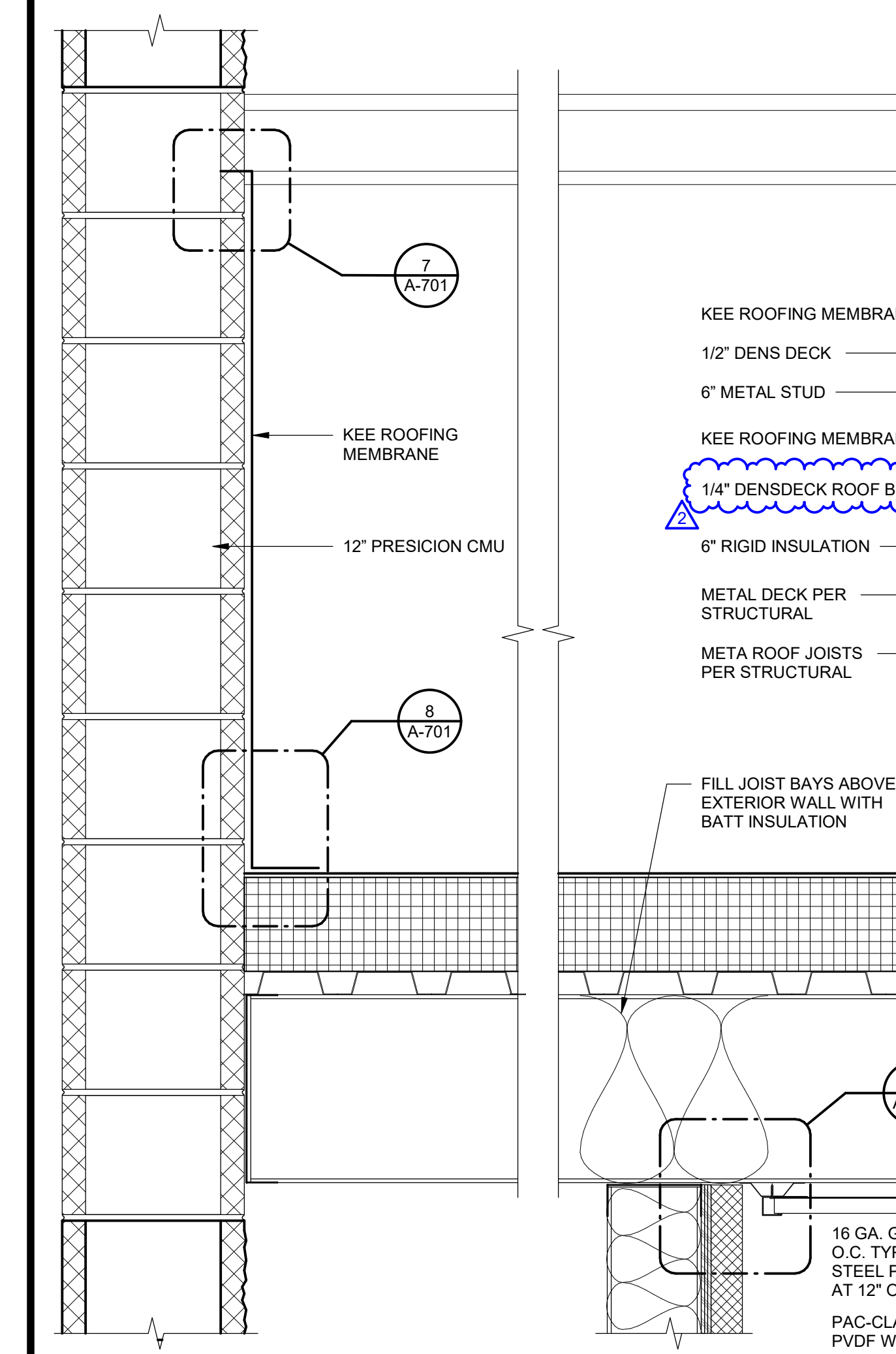
MAIN ENTRY PARAPET OVERHANG - SECTION 1 1/2" = 1'-0" 20



FLUSH METAL SOFFIT PANEL TO WALL 3" = 1'-0" 22



SMALL CANOPY AT CMU - PLAN 1 1/2" = 1'-0" 23



SMALL CANOPY AT CMU - SECTION 1 1/2" = 1'-0" 17

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## **Pre-Bid RFIs: 13 to 17**

**Project: Orcutt Academy HS Multi-Use Building**  
**Project No: 2-2022-02-22-01**  
**Addendum 006**

### **13. Pre-Bid RFI #13: Acoustical Wall Panels & Tackboard**

13.1. Interior Elevations A-601 and A-602, Keynotes 09.84.A and 09.84.B call for Acoustical Wall Panels. I do not see any spec or call out for type of Acoustical Wall Panels?

**13.1.1. Response: Add specification section 09 48 10 Sound Absorptive Wall Panels to Specifications. See added specification in 19-6 Architects Addendum 4.**

13.2. Finish Plan A-251, Classroom 115. Wall finish calls for gyp board and tackboard. Interior Elevation seems to only show gyp board. Is there to be tackboard on the walls of room 115? If so, where??

**13.2.1. Response: Install tackboard on all exposed walls in Classroom 115. See revised sheet A-605 in 19-6 Architects Addendum 4.**

### **14. Pre-Bid RFI #14: Plumbing**

14.1. The lavatories show cold water only on the schedule, but there is no mention of an under sink IWH and point of use mixing valve. There is now power shown for a unit of this kind either. Please advise.

**14.1.1. Response: Cold water only to lavatories. No hot water to lavatories or instant water heater is specified on plumbing plans.**

### **15. Pre-Bid RFI #15: Landscaping Clarifications**

15.1. How is the base bid going to function if the Alt.2 is not accepted when the POC is in the Alt?

**15.1.1. Response: In the event that Bid Alt. 1 is not accepted, the District will provide the POC for the irrigation.**

15.2. Is the existing turf repair/replant to be hydroseed or sod and are we to assume we are replacing all of it so that it matches?

**15.2.1. Response: Revise sheet L-101 to remove all existing turf and apply hydroseed. See revised sheet L-101 in 19-6 Architects Addendum 4.**

15.3. Landscaping was not listed in the specs, please provide specs for Landscaping.

**15.3.1. Response: Landscaping specs are included in the drawing/plan set. See revised sheet L-401 in 19-6 Architects Addendum 4.**

### **16. Pre-Bid RFI #17: Gym Equipment**

16.1. After review of Spec Section 11491 Gymnasium Equipment there seems to be a lot of incorrect product items, etc.

**16.1.1. Basketball structure specified incorrect, does not match plans**



- 16.1.1.1. Response: Revise basketball structure in specifications. See revised specification section 11 49 10 in 19-6 Architects Addendum 4.**
- 16.1.2. Specifications call for steel, fan board – this is really obsolete for indoor and costs a lot more than standard glass
  - 16.1.2.1. Response: Revise basketball structure in specifications. See revised specification section 11 49 10 in 19-6 Architects Addendum 4.**
- 16.1.3. No specifications for wall pads
  - 16.1.3.1. Response: Add Gymnasium Protection Accessories in specifications. See added specification section 11 66 23 in 19-6 Architects Addendum 4**
- 16.1.4. Has outdoor items which are not covered on plans or in project
  - 16.1.4.1. Response: Outdoor structure in specifications 11 49 10 was deleted in 19-6 Architects Addendum 3. See revised specification section 11 49 10 in 19-6 Architects Addendum 4.**
- 16.1.5. No specifications for VB sleeves and covers
  - 16.1.5.1. Response: Revise Gymnasium Equipment specifications. See revised specification section 11 49 10 in 19-6 Architects Addendum 4.**
- 16.1.6. Recommend inserting the attached proposed Basketball Backstops, wall pads and volleyball equipment, but keep the Scoreboard and Shot Clock specified
  - 16.1.6.1. Response: Recommendation considered. See revised specification section 11 49 10 in 19-6 Architects Addendum 4**

## **17. Pre-Bid RFI #18: Follow-Up to Roofing Clarifications RFI**

- 17.1. We have follow-up questions to the Response to Addendum 5's Pre-Bid RFI-12:
  - 17.1.1.** On Sheet A-703, #7 & #10 – it calls out insulation for slope only. ¼ in taper is not thick enough to bridge the flutes with the canopy. We recommend 1" at least for the taper on the canopy roofs, not 1/4 in. This is outside insulation, not interior. There is no dens-deck in either of those details, please provide information.
    - 17.1.2. Response: Rigid insulation to achieve drainage is drawn to scale at 2" and has been called out for clarification. ¼" Densdeck has been called out on the canopies. These have been included in 19-6 Architects Addendum 4.**
- 17.2. On Sheet A-702, #11, #12, and #13 shows roof deck with ¼ in. dens-deck and PVC membrane. No insulation is shown on those details at all. Roof deck, Dens-deck and PVC are all listed, but no insulation. Plans don't call out R30 insulation – please advise where these details are shown.
  - 17.2.1. Response: With the exception of the canopies, the intent of the drawings is to provide a roof section over the gym space, the restroom/lobby, the classrooms/lockers, and the stage area per detail 1/A-702. These areas are to have R30 (6" thick) insulation. Details on sheet A-702 have been revised to clarify single ply membrane roof system.**