GENERAL

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated April 2024, and consists of pages AD1-1 through AD1-3 Specifications Sections listed below, and Drawings Sheet listed below. The following changes, additions and/or deletions shall be made to the following documents: all other conditions shall remain the same.

ITEM NO. I – CONTRACT DOCUMENTS
ANNOUNCEMENT TO PREQUALIFIED BIDDERS
SUPPLEMENTARY INSTRUCTIONS TO BIDDERS
QUALIFICATION QUESTIONNAIRE

1. Contractor Qualification Questionnaire, p. 3 – correct typo in Criteria Item 4. Change from "Project was completed within the last ten (5) years and accepted as complete prior to April 30, 2024." To "Project was completed within the last *five* (5) years and accepted as complete prior to April 30, 2024." See attached revised QQ.
2. CHANGE Bid deadline to June 25, 2024, at 2:00 p.m.

ITEM NO. II – SPECIFICATIONS

1. SECTION 01 11 00, 1.02 E DESCRIPTION OF WORK: Construction sequence of x-ray rooms shall be in order, as follows: ED 3, 1P758; ED 1, 1P752; ED 2, 1P754.
2. SECTION 015610 – Airborne Contaminants Control
   Infection Control Risk Assessment Worksheet – Contractors should assume that Class V precautions will be required for all work.

ITEM NO. III – DRAWINGS

1. ADD ACD-001 DRAFT –
   a. Narrative
   b. Plans A201, A202, A662, A672, A673, E301
   c. Section 09 22 16 Non-Structural Metal Framing, Section 09 29 00 Gypsum Board, Section 13 49 00 Radiation Protection.

ITEM NO. IV – CLARIFICATIONS

Q1: Can OPM-0043-13 be incorporated into the drawing set to reduce requirements for drilled anchors and the associated disruption?
A1: We assume this RFI is proposing to use Mason West Badger clips in lieu of the expansion anchor per the approved contract documents. For MEP utility conduit support, this is acceptable; contractor to submit shop drawing during construction for DPOR review. For ceiling hanger/brace wires, this is acceptable; DPOR will submit ACD/NMA for HCAI approval. For partition walls, use expansion anchors per approved contract drawings. For overhead scanner support retrofit detail on S9.01, use expansion anchors per approved contract drawings.

Q2: During the pre-bid conference it was mentioned that Fire Alarm drawings would be by the electrical contractor, but this is not noted as a deferred submittal on G000; please confirm if FA is deferred and who is responsible.
A2: There are no fire alarm or fire protection modifications required. If any modifications are required to support construction activities, Contractor to coordinate with Fire Marshall and HCAI as necessary.

Q3: A2.01 shows an opening in the corridor wall getting infilled in 1P754. There is no wall tag identification and a privacy curtain is shown at what looks to be an infilled door location. Please confirm if there is a wall to infill on the plan east side of room 1P754.
A3: This is shown incorrectly; only a temporary barrier system is to be installed.

Q4: No shut off or isolation valves are shown between the zone valve box and the medical gas ports in the rooms. If there are no existing valves, this will result in multiple med gas shut downs impacting all three rooms. Please advise if this is the intent, or if owner intends to install isolation valves for each space.
A4: Contractor is to provide medical gas shut off valves for each medical gas service above the ceiling within each room. Valve locations shall be coordinated with the University and in accessible locations. Perform testing of medical gas systems upon installation of valves and installation of all piping systems. A total of (9) valves shall be installed, (3) per room. Work shall be sequenced such that ALL valves are installed as part of MEP safe-off activities prior to the start of active demolition in the first phase. Valve installations shall occur during a single overnight shift, not longer than 12-hours in duration, with work occurring in one room at a time, such that a minimum of two rooms are still available for diagnostic imaging by the University. If work cannot be completed in a single 12-hour shift, then work to be completed in successive daily overnight shifts, until complete. The University shall carry the contract with CYA to provide temporary medical gas service during the shut down; Contractor shall provide all necessary supervision and coordination with related parties (IOR, CYA, UCD PO&M, etc) to properly plan and manage the shutdown.

Q5: Please advise if a PIN70 coordination study is required for this project and if so who is responsible for completion of the study.
A5: PIN 70 has been completed as part of the permit drawings.

Q6: There are several references to verify existing, retrofit where required. Has the SEOR confirmed the existing conditions or should we expect to retrofit?
A6: Not all existing conditions have been verified; Contractor should assume retrofitting all locations per the approved contract documents. Contractor to provide credit during construction for locations that meet criteria to not require the retrofit details.

Q7: Please confirm if the use of the University electrical system for temp power is available per Section 01 51 00.
A7: Use of University electrical system for temporary power is available. DPOR will provide an ACD to identify the allowable non-emergency circuit to utilize inside each room for temporary power.

Q8: The majority of the information in Section 079200 Joint Sealants relates to exterior conditions which do not apply to this project. Please clarify.
Q8: Please disregard any portions that are not applicable to this project.

Q9: Section 099000 Painting makes extensive reference to exterior work and to mockups. We do not believe either of these are applicable to this project. Please clarify.
A9: Mockups are not required per this Section 099000. Please disregard any portions not applicable to this project.

Q10: Keynote D4 on A201 reads ‘REMOVE (E) GENERAL RADIOLOGY EQUIPMENT”. We believe all such equipment will be removed by the Owner’s Equipment vendor. Please clarify.
A10: Correct; Please see Note H under General Notes – Demolition Plan. Contractor to coordinate and provide site supervision during the removal of the equipment by others.

Q11: Keynote D9 on A201 reads “REMOVE (E) EQUIPMENT AND STORE TO BE REPLACED IN SAME LOCATION AT END OF CONSTRUCTION”. Will this be the Contractor responsibility or will it be done by owner?
A11: Equipment will be removed by the Contractor; Contractor to coordinate with the University before discarding. New equipment to be installed by Contractor per the contract documents and to be coordinated with the department. Please see Note H under General Notes – Demolition Plan.

Q12: Keynote F13 on A201 read “(N) WALL MOUNTED APRON STORAGE RACK…REPAIR WALL…AFTER RELOCATION”. Is this rack new or relocated? Please clarify.
A12: Apron storage will be new. Contractor to provide wall patching as required after removal of existing.

Q13: Item F31 Room Singage on the Equipment Schedule on A202 is listed as Contractor Provided / Department Installed. Please confirm if this is correct.
A13: Signage is to be Contractor provided and installed.

Q14: Item F39 Phone on the Equipment Schedule on A202 is listed as Contractor Provided / Department Installed. Please confirm is this is correct.
A14: Phone is to be University provided and installed.

Q15: The Specifications do not provide any specifications for light gauge metal framing, drywall or lead-lined drywall. Please clarify.
A15: Sections have been provided in DRAFT ACD 01, included with this Addendum issuance.

Q16: There are a significant number of items on the Equipment Schedule A202 where the PROVIDED/INSTALLED column is left blank. Please clarify.
A16: Please see updated A202, included with DRAFT ACD 01, included with this Addendum issuance.

Q17: Instructions noted at the bottom of page 2 of 9 of the Contractor Qualification Questionnaire request information to be included in the questionnaire form only and attachments are not allowed, but questions III.B.(6), III.C.(6) and III.D request attachments. Please confirmed attachments are allowed/required.
A17: Attachments are allowed as necessary to comply with the requirements of the Qualification Questionnaire.

Q18: During a previous job walk it was noticed that there were several mobile HEPA carts on the 2nd floor; will the selected contractor have permission to use carts to perform work outside of the containment area or do project budgets need to include their own units?
A18: Access to University owned mobile HEPA carts cannot be guaranteed. Contractors should plan on providing their own containment for all work.

Q19: Please provide the onsite date for the X-ray equipment for coordination with the project schedule.
A19: The exact onsite date for the X-ray equipment is not yet defined; per Section 01 31 00 Coordination, Contractor shall provide a minimum of 60-day notice prior to requiring the owner furnished equipment onsite. Contractor shall also allocate 45 days for installation, testing and licensing of owner furnished equipment, once anchorage and installation has been completed by the Contractor.

DocuSigned by:
Craig Ganes
01FE1BEEC6F64BF...

Craig Ganes – Project Manager
Facilities Design & Construction
UC Davis Health

DRAFT

HGA

MEMO

TO: *TBD*

FROM: Greg Osecheck

Writer's Direct Dial 916-787-5127

DATE: May 23, 2024

SUBJECT: Narrative of changes for **Post Approval Document NO. 001**
HGA Commission Number 1500-148-00
UCDH Gen. Radiology Equipment Replacement - Rooms 1P752, 1P754, & 1P758
HCAI #: **S231373-34-00-ACD-001**

OWNER:
University of California Davis Health
UC Davis Medical Center
2315 Stockton Blvd.
Sacramento, CA 95817

COPY TO:
Zach Price - UCDH

HCAI:
TBD
HCAI Regional Compliance Officer
2020 W. El Camino Avenue, Suite 800
Sacramento, CA 95833

Pursuant to General and Supplementary Conditions of the Contract, the following instructions are included in the work. Please acknowledge your acceptance and return a copy to the Architect.

DESCRIPTION OF THE WORK:
All revisions are clouded and noted with **Delta 3**

Sheet No.	Narrative of Changes
A201	• Added construction barriers in demolition plan; Added and updated keynotes
A202	• Updated equipment schedule
A662	• Added detail #13
A672	• Added note to detail #4 and detail #5
A673	• Added sheet
E301	• Added in provisions for temporary power. Electrical contractor to remove after construction has been completed.
Attachments	**Revised Sheets: A201, A202, A662, A672, A673, E301** **Reference Sheets: A201, A202, A662, A672, E301** **Structural Calculations** **Revised Specification** **Reference Specification**

By: Greg Osecheck
AOR – C33192

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SECTION 092216
NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Non-load-bearing steel framing systems for interior partitions.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.3 INFORMATIONAL SUBMITTALS

A. Product Certificates: For each type of code-compliance certification for studs and tracks.

B. Evaluation Reports: For embossed steel studs and tracks, firestop tracks, post-installed anchors and power-actuated fasteners, from ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.

1.4 QUALITY ASSURANCE

A. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Certified Steel Stud Association the Steel Framing Industry Association or the Steel Stud Manufacturers Association.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non-load-bearing steel framing, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 119 by an independent testing agency.

B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated on Drawings, according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

C. Performance Requirements: Provide metal framing as indicated but not lesser bare metal thickness than that required to comply with ASTM C754 assuming horizontal loading of 5 lbf/sq. ft. under the following conditions:
   1. Gypsum board partitions:
      a. Standard systems: Maximum deflection of l/240 of partition height.

D. Design framing systems in accordance with AISI S220, "North American Specification for the Design of Cold-Formed Steel Framing - Nonstructural Members," unless otherwise indicated.

E. Design framing systems to accommodate deflection of primary building structure and construction tolerances and to withstand design loads with a maximum deflection of 1 inch (25 mm).

2.2 FRAMING SYSTEMS

A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
   1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
   2. Protective Coating: ASTM A 653/A 653M, G40, hot-dip galvanized unless otherwise indicated.

B. Studs and Tracks (MET STUD): ASTM C 645. Use either steel studs and tracks or embossed steel studs and tracks.
   1. Steel Studs and Tracks:
      a. Minimum Base-Metal Thickness: 0.0329 inch.
      b. Depth: As indicated on Drawings.
   2. Embossed Steel Studs and Tracks: Roll-formed and embossed with surface deformations to stiffen the framing members so that they are structurally equivalent to conventional ASTM C 645 steel studs and tracks.
      a. Depth: As indicated on Drawings.

C. Slip-Type Head Joints: Where indicated, provide one of the following:
   1. Single Long-Leg Track System: ASTM C 645 top track with 2-inch-deep flanges in thickness not less than indicated for studs, installed with studs friction fit into top track and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing.
   2. Double-Track System: ASTM C 645 top outer tracks, inside track with 2-inch-deep flanges in thickness not less than indicated for studs and fastened to studs, and outer track sized to friction-fit over inner track.

D. Firestop Tracks: Top track manufactured to allow partition heads to expand and contract with movement of structure while maintaining continuity of fire-resistance-rated assembly indicated; in thickness not less than indicated for studs and in width to accommodate depth of studs.

E. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
   1. Minimum Base-Metal Thickness: 0.0329 inch.

F. Cold-Rolled Channel Bridging: Steel, 0.0538-inch minimum base-metal thickness, with minimum 1/2-inch-wide flanges.
   1. Depth: As indicated on Drawings.
   2. Clip Angle: Not less than 1-1/2 by 1-1/2 inches, 0.068-inch-thick, galvanized steel.

G. Hat-Shaped, Rigid Furring Channels (MET FURG-1): ASTM C 645.
   1. Minimum Base-Metal Thickness: 0.0329 inch.
   2. Depth: As indicated on Drawings.

H. Resilient Furring Channels: 1/2-inch-deep, steel sheet members designed to reduce sound transmission.
   1. Configuration: Asymmetrical or hat shaped.

I. Cold-Rolled Furring Channels: 0.053-inch uncoated-steel thickness, with minimum 1/2-inch-wide flanges.
   1. Depth: As indicated on Drawings.
   2. Furring Brackets: Adjustable, corrugated-edge-type steel sheet with minimum uncoated-steel thickness of 0.0329 inch.
   3. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch-diameter wire, or double strand of 0.048-inch-diameter wire.

J. Z-Shaped Furring (MET FURG-2): With slotted or nonslotted web, face flange of 1-1/4 inches, wall attachment flange of 7/8 inch, minimum uncoated-metal thickness of 0.0179 inch, and depth required to fit insulation thickness indicated.

2.3 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that comply with referenced installation standards.
   1. Fasteners for Steel Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

B. Isolation Strip at Exterior Walls: Provide the following:
   1. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch thick, in width to suit steel stud size.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Suspended Assemblies: Coordinate installation of suspension systems with installation of overhead structure to ensure that inserts and other provisions for anchorages to building structure have been installed to receive hangers at spacing required to support the Work and that hangers will develop their full strength.
   1. Furnish concrete inserts and other devices indicated to other trades for installation in advance of time needed for coordination and construction.

3.3 INSTALLATION, GENERAL

A. Installation Standard: ASTM C 754.
   1. Portland Cement Plaster Assemblies: Also comply with requirements in ASTM C 1063 that apply to framing installation.
   2. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.

B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.

C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.

D. Install bracing at terminations in assemblies.

E. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

3.4 INSTALLING FRAMED ASSEMBLIES

A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.

B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.

C. Install studs so flanges within framing system point in same direction.

D. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
   1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
   2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install track section (for cripple studs) at head and secure to jamb studs.
      a. Install two studs at each jamb unless otherwise indicated.
      b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2 inch clearance from jamb stud to allow for installation of control joint in finished assembly.
   3. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
      a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
   4. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.

E. Direct Furring:
   1. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.

F. Z-Shaped Furring Members:
   1. Except at exterior corners, securely attach narrow flanges of furring members to wall with concrete stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
   2. At exterior corners, attach wide flange of furring members to wall with short flange extending beyond corner; on adjacent wall surface, screw-attach short flange of furring channel to web of attached channel. At interior corners, space second member no more than 12 inches from corner and cut insulation to fit.

G. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

END OF SECTION

SECTION 092900
GYPSUM BOARD

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Interior gypsum board.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.3 DELIVERY, STORAGE AND HANDLING

A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.4 FIELD CONDITIONS

A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written instructions, whichever are more stringent.

B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.

C. Do not install 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.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.

B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

2.2 GYPSUM BOARD, GENERAL

A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.3 INTERIOR GYPSUM BOARD

A. Manufacturers:
   1. American Gypsum.
   2. Certainteed; SAINT-GOBAIN.
   3. National Gypsum Company.
   4. PABCO Gypsum.
   5. USG Corporation.

B. Gypsum Board, Type X: ASTM C 1396/C 1396M.
   1. Thickness: 5/8 inch.
   2. Long Edges: Tapered.
   3. Acceptable products and manufacturers: Equivalent to Sheetrock Brand SW, Firecode Gypsum Panels by United States Gypsum (USG).

2.4 ACCESSORIES

A. Interior Trim: ASTM C 1047.
   1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.
   2. Shapes:
      a. Cornerbead.
      b. LC-Bead: J-shaped; exposed long flange receives joint compound.
      c. L-Bead: L-shaped; exposed long flange receives joint compound.
      d. U-Bead: J-shaped; exposed short flange does not receive joint compound.
      e. Expansion (control) joint.

2.5 JOINT TREATMENT MATERIALS

A. General: Comply with ASTM C 475/C 475M.

B. Joint Tape:
   1. Interior Gypsum Board: Paper.

C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
   1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
   2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping or drying-type, all-purpose compound.
      a. Use setting-type compound for installing paper-faced metal trim accessories.
   3. Fill Coat: For second coat, use setting-type, sandable topping or drying-type, all-purpose compound.
   4. Finish Coat: For third coat, use setting-type, sandable topping or drying-type, all-purpose compound.

2.6 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.

B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.

C. Steel Drill Screws: ASTM C 1002 unless otherwise indicated.
   1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.

D. Closed-Cell Tape Sponge Neoprene: Press-on Products, No. P-8200 or P-8100, or approved equal.

E. Foam Backer Rod: Closed cell polyethylene, ASTM C962: by ITP, Nomeco, or approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and substrates including welded hollow-metal frames and support framing, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.

B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Sprayed Fire-Resistive Materials: Coordinate with gypsum board shaft wall assemblies so both elements of Work remain complete and undamaged. Patch or replace sprayed fire-resistive materials removed or damaged during installation of shaft wall assemblies to comply with requirements specified in Section 078100 "Applied Fire Protection."

3.3 APPLYING AND FINISHING PANELS, GENERAL

A. Comply with ASTM C 840.

B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.

C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.

D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.

E. Form control and expansion joints with space between edges of adjoining gypsum panels.

F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
   1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft.in area.
   2. Fit gypsum panels around ducts, pipes, and conduits.
   3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch-wide joints to install sealant.

G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch- wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.

H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

3.4 APPLYING INTERIOR GYPSUM BOARD

A. Single-Layer Application:
   1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing unless otherwise indicated.
   2. On partitions/walls, apply gypsum panels vertically (parallel to framing) or horizontally (perpendicular to framing) unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
      a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
      b. At stairwells and other high walls, install panels horizontally unless otherwise indicated or required by fire-resistance-rated assembly.
   3. On Z-shaped furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
   4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.

B. Multilayer Application:
   1. On ceilings, apply gypsum board indicated for base layers before applying base layers on walls/partitions; apply face layers in same sequence. Apply base layers at right angles to framing members and offset face-layer joints one framing member, 16 inches minimum, from parallel base-layer joints, unless otherwise indicated or required by fire-resistance-rated assembly.
   2. On partitions/walls, apply gypsum board indicated for base layers and face layers vertically (parallel to framing) with joints of base layers located over stud or furring member and face-layer joints offset at least one stud or furring member with base-layer joints unless otherwise indicated or required by fire-resistance-rated assembly. Stagger joints on opposite sides of partitions.
   3. On Z-shaped furring members, apply base layer vertically (parallel to framing) and face layer either vertically (parallel to framing) or horizontally (perpendicular to framing) with vertical joints offset at least one furring member. Locate edge joints of base layer over furring members.
   4. Fastening Methods: Fasten base layers and face layers separately to supports with screws.

C. Laminating to Substrate: Where gypsum panels are indicated as directly adhered to a substrate (other than studs, joists, furring members, or base layer of gypsum board), comply with gypsum board manufacturer's written instructions and temporarily brace or fasten gypsum panels until fastening adhesive has set.

3.5 INSTALLING TRIM ACCESSORIES

A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.

B. Control Joints: Install control joints at locations indicated on Drawings, according to ASTM C 840 and in specific locations approved by Project Director/COR for visual effect.

3.6 FINISHING GYPSUM BOARD

A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.

B. Prefill open joints, rounded or beveled edges, and damaged surface areas.

C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.

D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
   1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
   2. Level 2: Panels that are substrate for tile, except remove toll marks and ridges.
   3. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.
      a. Primer and its application to surfaces are specified in Section 099000 "Painting."

3.7 PROTECTION

A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.

B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.

C. 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

SECTION 134900
RADIATION PROTECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Lead-lined gypsum board.

1.2 DEFINITIONS

A. Lead Equivalence: The thickness of lead that provides the same attenuation (reduction of radiation passing through) as the material in question under the specified conditions.
   1. Lead equivalence specified for materials used in diagnostic x-ray rooms is as measured at 100 kV unless otherwise indicated.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For units with factory-applied color finishes.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Lead-Lined Gypsum Panels: Store inside under cover, and keep dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.6 FIELD CONDITIONS

A. Environmental Limitations: Do not deliver or install radiation protection until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Provide materials and workmanship, including joints and fasteners, that maintain continuity of radiation protection at all points and in all directions equivalent to materials specified in thicknesses and locations indicated.

B. Materials, thicknesses, and configurations of radiation protection products indicated are based on radiation protection design prepared by Owner's radiation health physicist. This design is available to Contractor upon request.

C. Lead-Lined Assemblies: Unless otherwise indicated, provide lead thickness in lead-lined assemblies of not less than lead thickness indicated for assemblies in which they are installed.

2.2 LEAD-LINED GYPSUM BOARD

A. Lead-Lined Gypsum Board: 5/8-inch-thick gypsum board complying with Section 092900 "Gypsum Board," of width and length required for support spacing and to prevent cracking during handling, and with a single sheet of lead laminated to the back of the board.
   1. Lead Sheet Lining: Full width of board and length necessary to extend from floor to 84 inches above floor.
   2. Furnish 2-inch- wide lead strips for backing joints.
   3. Furnish finishing materials, accessories, and trim for lead-lined gypsum board complying with Section 092900 "Gypsum Board."

2.3 MISCELLANEOUS MATERIALS

A. Accessories and Fasteners: Manufacturer's standard fasteners and accessories as required for installation, maintaining same lead equivalence as rest of system.

B. Asphalt Coating: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

C. Asphalt Felt: ASTM D226/D226M.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates with Installer present for compliance with requirements, installation tolerances, and other conditions affecting performance of radiation protection.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF LEAD-LINED GYPSUM BOARD

A. Install and finish lead-lined gypsum board in accordance with Section 092900 "Gypsum Board."

B. Install lead-lined gypsum board panels with long edge parallel to supports and lead lining facing supports. Provide blocking at end joints.

C. Install lead-lined gypsum board panels in sequence, so lead lining that extends beyond edge of gypsum board is covered by next panel installed.

D. At joints where lead lining does not extend beyond edge of gypsum board panels, install lead strips 2 inches wide and same thickness as lead lining to face of framing and blocking. Secure lead strips with construction adhesive.

E. Provide shims at face of supports and blocking, where lead lining does not overlap, to provide a uniform plane across panel surfaces.

F. Fasten lead-lined gypsum board to framing, with steel drill screws spaced as recommended in writing by lead-lined gypsum board manufacturer.

G. Two-Layer System: Apply a facing sheet of gypsum board vertically over base sheet, using laminating adhesive recommended in writing by gypsum board manufacturer. Offset joints in finish layer from joints in base layer, and fasten at top and bottom of sheet to support finish panel until adhesive has set.

H. Openings: Extend lead-lined gypsum board into frames of openings, lapping lead lining with lead frames or frame linings at least 1 inch. Arrange board around openings, so neither horizontal nor vertical joints occur at corners of openings.

I. Install control and expansion joints where indicated, with appropriate trim accessories. Install lead strip on face of framing, extending across joint, and lap with lead lining of gypsum board.

3.3 INSTALLATION OF PENETRATING ITEMS

A. At penetrations of lead linings, provide lead shields to maintain continuity of protection.

B. Provide lead linings, sleeves, shields, and other protection in thickness of not less than that required in assembly being penetrated.

C. Secure shields at penetrations using adhesive or wire ties but not penetrating fasteners unless indicated on Drawings.

D. Outlet Boxes and Conduit: Cover or line with lead sheet lapped over adjacent lead lining at least 1 inch. Wrap conduit with lead sheet for a distance of not less than 10 inches from box.

E. Duct Openings: Unless otherwise indicated, line or wrap ducts with lead sheet for distance from partition/ceiling equal to 3 times the largest opening dimension. Lap lead sheet with adjacent lead lining at least 1 inch.

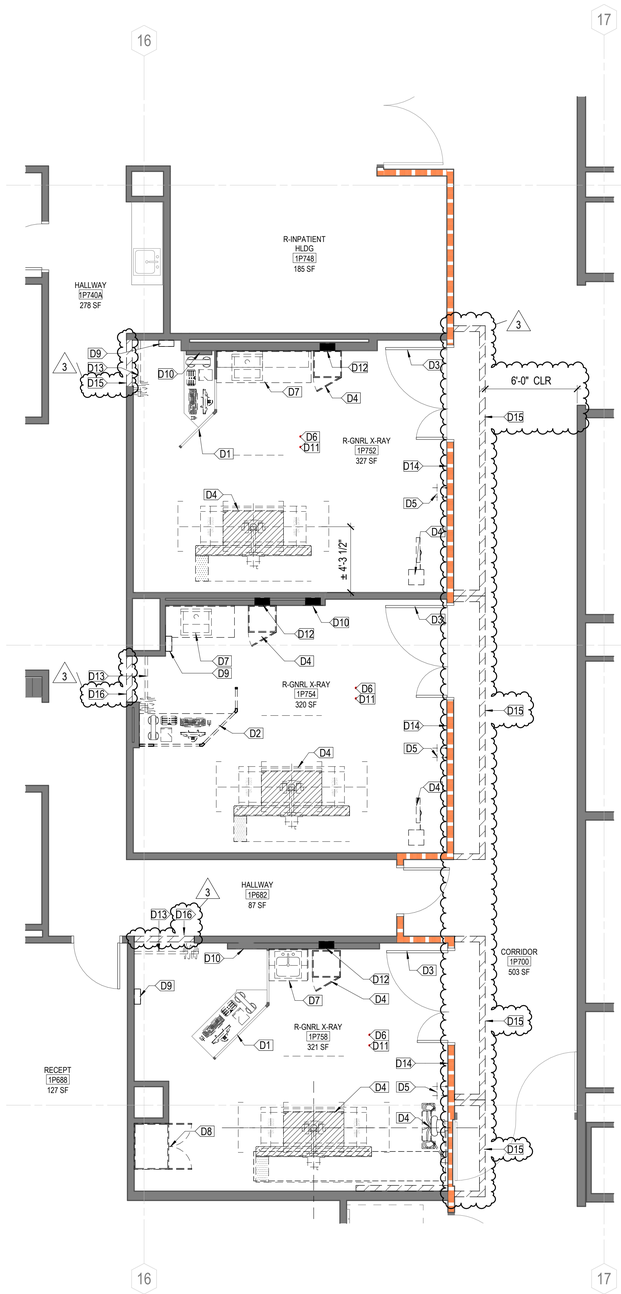
F. Piping: Unless otherwise indicated, wrap piping with lead sheet for a distance of not less than 10 inches from point of penetration.

3.4 FIELD QUALITY CONTROL

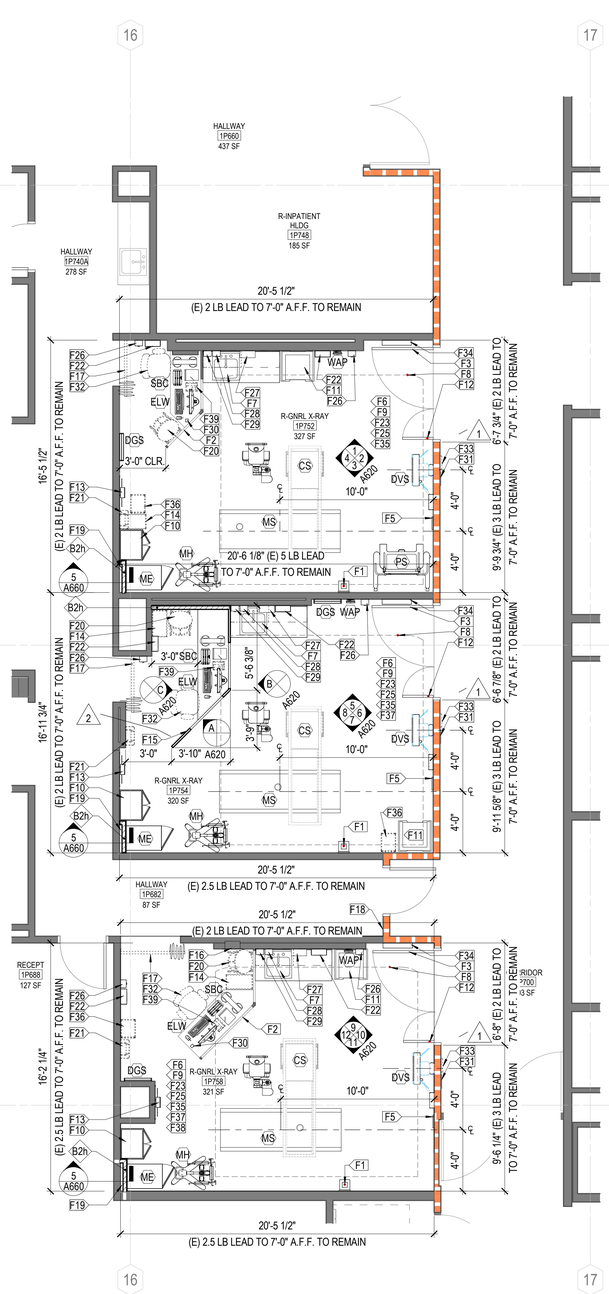
A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections after radiology equipment has been installed and placed in operating condition.

B. Correct deficiencies in or remove and replace radiation protection that inspection reports indicate does not comply with specified requirements.

END OF SECTION



1 DEMOLITION PLAN - LEVEL 01
1/4" = 1'-0"



2 FLOOR PLAN - LEVEL 01 PROPOSED
1/4" = 1'-0"

EQUIPMENT LEGEND

SEE FULL EQUIPMENT SCHEDULE ON SHEET A202 FOR MORE INFORMATION.

TAG	DESCRIPTION
MS	(N) PHILIPS DIGITALDIAGNOST TH/TH2 TABLE
DVS	(N) PHILIPS BUCKYDIAGNOST VS DIGITAL
CS	(N) PHILIPS CSM3 OVERHEAD X-RAY TUBE
ME	(N) PHILIPS GENERATOR M-CABINET CXA
ELW	(N) PHILIPS ELEVA WORKSPOT
SBC	(N) PHILIPS SKYPLATE BATTERY CHARGER
WAP	(N) PHILIPS WI-FI ACCESS POINT, MOUNT MIN. 80" ABOVE FINISH FLOOR
MH	(N) PHILIPS SKYPLATE MOBILE HOLDER
PS	(N) PHILIPS PATIENT SUPPORT, TO BE SHARED BETWEEN ALL X-RAY ROOMS
DGS	(N) PHILIPS WALL-MOUNTED DETECTOR & GRID STORAGE

GENERAL NOTES - DEMOLITION PLAN

A. COORDINATE EXTENT OF DEMOLITION WITH REQUIREMENTS FOR NEW WORK.
B. REMOVE EXISTING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, FLOOR FINISHES, WALLS, CEILINGS, WALL BASE, AND OTHER EXISTING CONSTRUCTION AS INDICATED OR REQUIRED FOR NEW WORK, UNLESS NOTED OTHERWISE.
C. REMOVE WALLS INCLUDING WALL MATERIALS INCLUDING INTEGRAL BASES, DOORS, DOOR FRAMES AND ASSOCIATED HARDWARE AND THRESHOLDS, UNLESS OTHERWISE INDICATED.
D. REMOVE PARTITIONS COMPLETELY TO UNDERSIDE OF STRUCTURAL COMPONENTS ABOVE AND TO TOP OF FLOOR STRUCTURAL COMPONENTS AT BASE. DO NOT LEAVE SECTIONS OR MATERIALS OF WALL ASSEMBLIES IN PLACE.
E. AT SIDES OF WALLS, THAT ABUT WALLS TO REMAIN, CUT BACK AT LEAST 1 INCH (25 MM) BEYOND FACE OF FINISH OF WALL TO REMAIN TO FACILITATE SUBSEQUENT PATCHING AND NEW CONSTRUCTION.
F. COMPLETELY REMOVE FINISHES, SUBBASE MATERIALS AND STRUCTURAL FRAMING MATERIALS TO LINES INDICATED OR REQUIRED FOR NEW WORK.
G. EXISTING ITEMS TO BE SALVAGED FOR REUSE IN NEW WORK:
   A. THE UNIVERSITY DEPARTMENT STAFF ARE RESPONSIBLE FOR REMOVING ALL MISC. ITEMS NOT AFFIXED TO THE WALLS, FLOOR, OR CEILING.
H. EXISTING ITEMS TO BE SALVAGED FOR DELIVERY TO OWNER:
   A. (E) X-RAY EQUIPMENT TO BE SAFED-OFF, ANCHORINGS TO BE REMOVED BY CONTRACTOR, AND THEN THE UNIVERSITY WILL REMOVE ALL EQUIPMENT FOR SALVAGE.
   B. CONTRACTOR TO REMOVE ALL ACCESSORIES & SMALL EQUIPMENT AFFIXED TO THE WALLS, FLOOR, OR CEILING AND COORDINATE WITH THE UNIVERSITY PRIOR TO DISPOSAL FOR POSSIBLE SALVAGE AND RE-USE.
I. EXISTING UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS ARE TO REMAIN, UNLESS INDICATED OTHERWISE.
J. RELOCATE EXISTING WORK SERVING OCCUPIED PORTIONS OF THE BUILDING AS REQUIRED TO MAINTAIN SERVICE TO OCCUPIED AREAS AND TO ACCOMMODATE NEW WORK.
K. REMOVE AND CAP PORTIONS OF EXISTING UTILITIES INDICATED TO BE DEMOLISHED AS REQUIRED TO ACCOMMODATE NEW WORK, INCLUDING SURFACE-MOUNTED ELECTRICAL CONDUIT, DEVICES AND LIGHT FIXTURES; RADIATORS, RADIATOR COVERS; PLUMBING FIXTURES AND ASSOCIATED PIPING.
L. REMOVE CEILINGS INDICATED TO BE DEMOLISHED INCLUDING INTEGRAL HANGERS, SUPPORTS, ANCHORS AND MATERIALS OR ASSEMBLIES ATTACHED TO CEILING CONSTRUCTION.
M. REMOVE SUSPENDED CEILINGS TO UNDERSIDE OF STRUCTURE OR ORIGINAL PLASTER OR GYPSUM BOARD CEILING SURFACES.
N. MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION MAINTAIN EGRESS FROM EXISTING OCCUPIED SPACES AND SURROUNDING BUILDING AREAS AS INDICATED AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
O. PROVIDE AND MAINTAIN FIRE EXTINGUISHERS IN AREA OF WORK, IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
P. COORDINATE UTILITY INTERRUPTIONS WITH OWNER. PROVIDE AT LEAST 48 HOURS WRITTEN NOTICE TO OWNER BEFORE UTILITY INTERRUPTIONS OBTAIN OWNER'S WRITTEN APPROVAL OF INTERRUPTIONS BEFORE PROCEEDING.
Q. COORDINATE OPERATIONS THAT MAY RESULT IN HIGH LEVELS OF NOISE AND VIBRATION, ODORS, OR OTHER DISRUPTIONS TO OCCUPANCY WITH OWNER. OBTAIN OWNER'S WRITTEN PERMISSION BEFORE PROCEEDING.
R. PROVIDE TEMPORARY BARRIERS AND ENCLOSURES AS REQUIRED TO PROTECT MATERIALS AND PEOPLE. PREVENT DUST, FUMES, AND ODORS FROM ENTERING OCCUPIED AREAS. MAINTAIN AND RELOCATE TEMPORARY BARRIERS AND ENLOSURES AS REQUIRED BY THE PROGRESS OF THE WORK. REMOVE TEMPORARY BARRIERS AND ENCLOSURES AT COMPLETION OF WORK.
S. PRIOR TO STARTING DEMOLITION, VERIFY EXISTING CONDITIONS AND DIMENSIONS. COORDINATE EXTENT OF DEMOLITION WORK AND EXISTING CONSTRUCTION TO REMAIN WITH NEW WORK. NOTIFY ARCHITECT OF CONFLICTS OR DISCREPANCIES.
T. REFER TO DISCPLINE-SPECIFIC DRAWINGS FOR RELATED FIRE SUPPRESSION, PLUMBING, HEATING VENTILATION AND AIR CONDITIONING, ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SAFETY AND SECURITY SYSTEM DEMOLITION WORK.

KEYNOTES

#	DESCRIPTION
D1	(E) BARRIER, MIN. 2 LB/FT AND 7'-0" HEIGHT MIN., & DESK TO REMAIN.
D2	REMOVE (E) LEAD EQUIVALENT X-RAY BARRIER / MODULAR WALL SYSTEM AND (E) DESK SURFACE. RELOCATE (E) POWER & DATA OUTLETS TO NEW DESK LOCATION.
D3	(E) LEAD LINED DOOR AND FRAME TO REMAIN, SEE UC DAVIS HEALTH SHIELDING DESIGN REPORT ON SHEETS A011 & A012 FOR MORE INFO.
D4	REMOVE (E) GENERAL RADIOLOGY EQUIPMENT. GC TO SAFE-OFF AND REMOVE ANCHORING. UNIVERSITY TO REMOVE EQUIPMENT.
D5	RELOCATE (E) MED GAS OUTLETS, SEE FLOOR PLAN AND PLUMBING PLANS FOR MORE INFO.
D6	REMOVE (E) FLOORING & BASE, CLEAN AND PREPARE SURFACE FOR NEW FLOORING INSTALLATION.
D7	REMOVE (E) COUNTER, SINK AND BASE CABINET.
D8	REMOVE (E) METAL CABINET. IF SET ON RAISED BASE, REMOVE BASE AND CLEAN AND PREPARE FLOOR SURFACE FOR NEW FLOORING.
D9	REMOVE (E) EQUIPMENT, COORDINATE WITH UNIVERSITY PRIOR TO DISPOSAL. REPLACE WITH (N) EQUIPMENT AS INDICATED ON PLANS, COORDINATE WITH DEPARTMENT.
D10	(E) ELECTRICAL PANEL TO REMAIN.
D11	REMOVE (E) WALL PROTECTION AND CORNER GUARDS. CLEAN AND REPAIR WALL SURFACE FOR NEW WALL PROTECTION AND CORNER GUARD INSTALLATION.
D12	REMOVE (E) X-RAY GENERATOR WALL BOX. PATCH & REPAIR WALL AS NEEDED.
D13	REMOVE (E) PRIVACY CURTAIN AND TRACK.
D14	REMOVE (E) LEADED GYPSUM BOARD AND INSTALL BACKING IN WALL PER MANUF. REQUIREMENTS FOR NEW X-RAY BUCKY, THEN RE-INSTALL LEADED GYPSUM BOARD TO PATCH OPENING PER REQUIREMENTS IN PHYSICIST'S REPORT ON SHEETS A011 & A012.
D15	TEMPORARY CONSTRUCTION BARRIER - STARC 1 HOUR RATED WALL SYSTEM PER DETAIL 13/A662. PROVIDE ACCESS DOOR TO MAINTAIN RATING AND VESTIBULE SPACE TO MEET UCDH ICRA STANDARDS. BARRIER TO EXTEND 6" BEYOND AREA WHERE WALL RATING IS IMPACTED BY CONSTUCTION ACTIVITIES. GC TO COORDINATE LAYOUT AND INSTALLATION WITH FIRE MARTIAL. BARRIER TO REMAIN WHILE X-RAY ROOM IS UNDER CONSTRUCTION.
D16	TEMPORARY DUST BARRIER - NON RATED INFILL WALL OR PLASTIC BARRIER, FULLY SEALED. NO ACCESS SIGNAGE TO BE POSTED ON HALLWAY SIDE OF THE BARRIER. ENSURE ISOLATION MEETS UCDH ICRA STANDARDS. BARRIER TO REMAIN WHILE X-RAY ROOM IS UNDER CONSTRUCTION.
F1	(N) PHILIPS WALL MOUNTED X-RAY TUBE CONNECTION, +9'-2" A.F.F. TO CENTER LINE.
F2	(E) BARRIER, MIN. 2 LB/FT AND 7'-0" HEIGHT MIN.
F3	(E) LEAD LINED DOOR AND FRAME TO REMAIN.
F5	RELOCATED MED GAS OUTLETS. FINAL LOCATION TO BE VERIFIED IN FIELD. PATCH AND REPAIR WALL WITH LEADED GYPSUM BOARD TO MATCH EXISTING AFTER RELOCATION.
F6	(N) FLOOR AND BASE. SEE FINISH PLAN ON A262.
F7	(N) ACCESSIBLE HANDWASH FIXTURE, COUNTER AND BASE & UPPER CABINETS. PROVIDE 90 DEGREE CLOSURE AT TOP OF UPPER CABINETS AND LIGHTING BELOW.
F8	AREA OF TRAVEL OF OVERHEAD RAIL & TUBE.
F9	PATCH, REPAIR & PAINT ALL WALLS AND SOFFITS. SEE FINISH PLAN ON A262.
F10	(N) FURNITURE CABINET FOR RADIOLOGY ACCESSORY STORAGE.
F11	RELOCATED ROLLING CRASH CART.
F12	(E) DOOR STOP FOR SMALL LEAF TO BE ADJUSTED TO PREVENT MOVEMENT BEYOND 90 DEGREES.
F13	(N) WALL-MOUNTED APRON STORAGE RACK. PROVIDE BACKING IN WALL, PATCH AND REPAIR WALL WITH LEADED GYPSUM BOARD TO MATCH EXISTING.
F14	(N) TRASH CAN.
F15	(N) MODULAR SHIELDING PARTITION, MARSHIELD MODULAR BARRIER OR EQUAL. PROVIDE MIN. 2 LB/SQ FT. LEAD PER UC DAVIS HEALTH SHIELDING DESIGN REPORT FOR SESP ROOM 1P752, 1P754, AND 1P758 DATED JULY 25, 2023.
F16	(N) ELECTRICAL DISCONNECT, SEE ELECTRICAL PLANS FOR COORDINATION.
F17	(N) PRIVACY CURTAIN AND TRACK. SEE FINISH SCHEDULE & CURTAIN TRACK DETAIL 15/A672
F18	(N) TACTILE EXIT SIGNAGE.
F19	(N) FURRING WALL/ELECTRICAL CHASE, SEE DETAIL B/A660.
F20	(N) LINEN HAMPER.
F21	(N) WALL-MOUNTED SHARPS CONTAINER.
F22	(N) WALL-MOUNTED GLOVE BOX HOLDER.
F23	(N) MEDICATION WASTE BLUE BIN. LOCATION TO BE DETERMINED BY STAFF.

GENERAL NOTES - FLOOR PLAN

A. PLAN DIMENSIONS ARE FROM FACE OF PARTITION TYPE AND DO NOT INCLUDE APPLIED FINISHES, UNLESS NOTED OTHERWISE. PLAN DIMENSIONS INDICATED AS "HOLD" OR "CLEAR" DIMENSIONS ARE FROM FACE OF APPLIED FINISH.
B. INSTALL WORK STRAIGHT, PLUMB, LEVEL, SQUARE, AND TRUE, IN PROPER ALIGNMENT.
C. FLATNESS; LEVEL FLOORS TO TRUE PLANE WITHIN 1/4 INCH (6 MM) IN 10'-0" (3 M) WHEN TESTED BY TEN FOOT (3 M) STRAIGHTEDGE PLACED ANYWHERE ON FLOOR IN ANY DIRECTION.
D. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT. BEFORE PROCEEDING WITH PARTITION FRAMING, PROVIDE LAYOUT MARKINGS OF PARTITIONS AND ASSOCIATED IN-WALL ELECTRICAL DEVICES ON SUBFLOOR FOR REVIEW BY ARCHITECT.
E. COORDINATE FURNITURE-RELATED ELECTRICAL LAYOUT WITH FURNITURE VENDOR.
F. WHERE HANDRAILS, GRAB BARS, CABINETS, WALL-MOUNTED DOOR STOPS, OR OTHER WALL-HUNG ITEMS ARE ATTACHED TO PARTITIONS, INSTALL BACKER PLATES [OR WOOD BLOCKING] ACCURATELY POSITIONED AND FIRMLY SECURED TO METAL STUDS, WHETHER OR NOT SUCH BACKER PLATES OR BLOCKING ARE INDICATED ON DRAWINGS.
G. WHERE NEW WORK ABUTS, ALIGNS OR ADJOINS EXISITING MATERIALS, MAKE SMOOTH AND EVEN TRANSITION AND ELIMINATE EVIDENCE OF PATCHING AND REFINISHING. FINISH NEW WORK TO MATCH ADJACENT UNDISTURBED SURFACES, UNLESS NOTED OTHERWISE.
H. CLOSE AND PATCH HOLES AND OPENINGS IN EXISTING FLOOR, WALL AND CEILING WHICH EXIST OR RESULT FROM DEMOLITION OR ALTERATION WORK TO MATCH ADJACENT UNDISTURBED SURFACES.
I. PRIOR TO CONCEALMENT OF FIRE RESISTIVE MATERIALS BY OTHER WORK, PATCH AND REPAIR AREAS OF REMOVED OR DAMAGED APPLIED FIREPROOFING. COMPLETE PATCHING AND REPAIR TO MAINTAIN EXISTING FIRE-RESISTANCE DESIGN IN ACCORDANCE WITH FIREPROOFING MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS OF EXPOSURE AND INTENDED USE. COORDINATE TESTING AND INSPECTION OF ASSEMBLIES AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
J. PROVIDE FIRESTOPPING OF PENETRATIONS AND VOIDS THROUGH FIRE-RATED WALL, FLOOR AND PARTITION ASSEMBLIES [AND ROOF] INCLUDING EMPTY OPENINGS AND OPENINGS CONTAINING CABLES, PIPES, DUCTS, CONDUIT AND OTHER ELEMENTS.
K. AT SOUND-RATED PARTITION WALLS, PROVIDE CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT AT JUNCTURE OF BOTH FACES OF RUNNERS OR PLATES WITH FLOOR AND CEILING CONSTRUCTION, AND WHEREVER GYPSUM BOARD ABUTS DISSIMILAR MATERIALS.
   - AT OPENINGS AND CUTOUTS, FILL OPEN SPACES BETWEEN GYPSUM BOARD AND FIXTURES, CABINETS, DUCTS AND OTHER FLUSH OR PENETRATING ITEMS, WITH CONTINUOUS BEAD OF SEALANT.
   - SEAL SIDES AND BACKS OF ELECTRICAL BOXES TO COMPLETELY CLOSE OFF OPENINGS AND JOINTS.
M. FOR PATCHBACK OF LEAD LINED GYPSUM BOARD, USE A 2" WIDE LEAD RIBBON AT ALL JOINTS.
N. ROOM CONSTRUCTION SHOULD BE COMPLETED SEQUENTIALLY BEGINNING WITH 1P758, THEN 1P754, THEN 1P752.

KEYNOTES

#	DESCRIPTION
F25	(N) PATIENT CHAIR.
F26	(N) HAND SANITIZER DISPENSER WITH TRAY.
F27	(N) WALL-MOUNTED PAPER TOWEL HOLDER.
F28	(N) WALL-MOUNTED SOAP DISPENSER WITH TRAY.
F29	(N) WALL-MOUNTED LOTION DISPENSER WITH TRAY.
F30	(N) PANIC BUTTON. COORDINATE LOCATION WITH ELECTRICAL PLANS.
F31	(N) ROOM SIGNAGE.
F32	MOBILE (N) CONTROL ROOM CHAIR.
F33	(N) "IN USE" INDICATOR, COORDINATE LOCATOIN & ELECTRICAL CONNECTION WITH ELECTRICAL PLANS.
F34	(N) TRANSFER BOARD WITH WALL HOLDER.
F35	MOBILE (N) IV POLE 4-HOOK TO BE STORED ELSEWHERE AND BROUGHT IN AS NEEDED.
F36	(N) STEP STOOL.
F37	MOBILE (N) STAIRS FOR STANDING FEET/ANKLE EXAM TO BE STORED ELSEWHERE AND BROUGHT IN AS NEEDED.
F38	MOBILE (N) CHILD IMMOBILIZER TO BE STORED ELSEWHERE AND BROUGHT IN AS NEEDED.
F39	(N) PHONE, COORDINATE POWER & DATA CONNECTIONS WITH ELECTRICAL PLANS.

CONSTRUCTION PLAN LEGEND

SEE A010 FOR ALL GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

(E) CONSTRUCTION TO REMAIN	
(N) CONSTRUCTION	
TEMPORARY CONSTRUCTION	

EXISTING ASSEMBLY RATING

0	ZERO HOUR
1	ONE HOUR RATED
2	TWO HOUR RATED
3	THREE HOUR RATED
4	FOUR HOUR RATED

TYPE OF ASSEMBLY

W	FIRE WALL	S	SMOKE BARRIER
B	FIRE BARRIER	SP	SMOKE PARTITIONS
P	FIRE PARTITION	ST	RESIST PASSAGE OF SMOKE
E	EXISTING AND RATED		

XX EQUIPMENT TAG
SEE EQUIPMENT SCHEDULEAND LEGEND FOR ADDITIONAL INFORMATION

TACTILE EXIT SIGNAGE

HCAI STAMP

HGA
1200 R Street, Suite 100
Sacramento, California 95811
Telephone 916.787.5100

STRUCTURAL ENGINEER
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MECHANICAL/ELECTRICAL/ PLUMBING ENGINEER
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Facilities Design & Construction
4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7024

9557580
SESP 1P752 - 1P758
X-RAY REPLACEMENT

HCAI #: S231373-34-00
HCAI FACILITY ID #:10619
HCAI STAMP

LICENSED ARCHITECT
GREG R. OSECHECK
C-33192
July 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE
1	HCAI BACKCHECK RESPONSE 1	11/8/2023
2	HCAI BACKCHECK RESPONSE 2	12/8/2023
3	ACD 01	5/23/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1500-148-00

DEMO & FLOOR PLAN LEVEL 01

DATE: 08.28.2023

CONSTRUCTION DOCUMENTS

A201

CONSTRUCTION DOCUMENTS

KB 5/23/2024 1:15:07 PM C:\Users\osechegr\Desktop\Documents\Revit Local Files\A23-UCDH Gen Rad Equip Replacement-150014800_osechegr.rvt

EQUIPMENT SCHEDULE

ROOM NO.	EQUIP ID	QTY	SHORT EQUIP NAME	PROVIDED/ INSTALLED	MANUF	MODEL	H	D	L	ELECTRICAL		COMMENTS
										PLUG-IN OR HARDWIRED	DATA	
1P752	CS	1	Philips CSM3 Overhead X-Ray Tube	Provided/ Installed by Philips Healthcare	Philips		6' - 0"	2' - 6"	7' - 9"	Hardwire	Yes	
1P752	DGS	1	Philips Wall-Mounted Detector & Grid Storage	Provided/ Installed by Philips Healthcare	Philips		1' - 3"	0' - 4"	1' - 10"			
1P752	DVS	1	Philips BuckyDiagnost VS Digital	Provided/ Installed by Philips Healthcare	Philips		7' - 4"	1' - 5"	3' - 8"	Hardwire	Yes	
1P752	ELW	1	Philips Eleva Workspot	Provided/ Installed by Philips Healthcare	Philips		1' - 6"	1' - 6"	1' - 6"	Hardwire	Yes	
1P752	F1	1	Philips Wall Mounted X-Ray Tube Connection	Provided/ Installed by Philips Healthcare	Philips		0' - 8"	0' - 8"	0' - 8"	Hardwire	Yes	
1P752	F5	1	Med Gas Connections	Provided/ Installed by Contractor			0' - 2"	0' - 10"	0' - 1"			
1P752	F10	1	Furniture Cabinet	Provided/ Installed by Contractor			7' - 0"	2' - 0"	1' - 6"			
1P752	F11	1	Mobile Crash Cart	Provided/ Installed by Department	Generic	Generic	2' - 6"	2' - 0"	2' - 0"			
1P752	F13	1	Wall-Mounted Lead Apron Hanger	Provided/ Installed by Contractor	Merry X-Ray	RT Fold: 100020, LT Fold: 126776	1' - 5"	0' - 4"	2' - 3"			
1P752	F14	1	23 Gallon Trash Can	Provided/ Installed by Department	Rubbermaid Commercial Products	1883552	2' - 8"	1' - 1"	1' - 10"			
1P752	F17	2	Curtain Track Straight - HGA	Provided/ Installed by Contractor			0' - 2"	0' - 2"	3' - 8"			
1P752	F20	1	Linen Hamper	Provided/ Installed by Department			2' - 8"	1' - 6"	1' - 6"			
1P752	F21	1	Wall-Mounted Sharps Container	3 Provided by Department/ Installed by Contractor			2' - 0"	0' - 6"	1' - 8"			
1P752	F22	3	3 Box Glove Dispenser	Provided by Department/ Installed by Contractor			1' - 7"	0' - 5"	1' - 0"			
1P752	F23	1	Medical Waste Blue Bin	Provided/ Installed by Department			2' - 0"	1' - 0"	1' - 0"			
1P752	F24	1	Wall Clock	Provided/ Installed by Department	Office Depot		1' - 0"	0' - 2"	1' - 0"			
1P752	F25	1	Mobile Patient Chair	Provided/ Installed by Department			3' - 0"	2' - 0"	2' - 0"			
1P752	F26	2	Hand Sanitizer Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P752	F27	1	Paper Towel Dispenser	Provided/ Installed by Contractor	Generic	Generic	1' - 4"	0' - 6"	1' - 0"			
1P752	F28	1	Soap Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P752	F29	1	Lotion Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P752	F30	1	Panic Button	Provided/ Installed by Contractor			0' - 2"	0' - 2"	0' - 2"	Hardwire		
1P752	F31	1	Room Signage	3 Provided/ Installed by Contractor			0' - 11"	0' - 1"	0' - 11"			
1P752	F32	1	Ergonomic Task Chair	Provided/ Installed by Department			3' - 0"	2' - 0"	2' - 4"			
1P752	F33	1	"In Use" Indicator	Provided/ Installed by Contractor			0' - 4"	0' - 2"	0' - 2"	Hardwire		
1P752	F34	1	Transfer Board & Wall Holder	Provided/ Installed by Contractor	Merry X-Ray	121571	6' - 0"	0' - 4"	1' - 11"			
1P752	F35	1	IV Pole 4-Hook	Provided/ Installed by Department	Medline	PEDP15764	6' - 0"	1' - 9"	1' - 9"			
1P752	F36	1	Step Stool	Provided/ Installed by Department	Drive Devilbiss Healthcare, Inc.	DHI130621SV	3' - 6"	1' - 3"	1' - 0"			
1P752	F39	1	Phone	3 Provided/ Installed by Department			0' - 4"	0' - 9"	0' - 7"	Hardwire		
1P752	ME	1	Philips Generator M-Cabinet CXA	Provided/ Installed by Philips Healthcare	Philips		3' - 3"	1' - 8"	2' - 4"	Hardwire		
1P752	MH	1	Philips Skyplate Mobile Holder	Provided/ Installed by Philips Healthcare	Philips		4' - 0"	2' - 3"	3' - 0"			
1P752	MS	1	Philips DigitalDiagnost TH/TH2 Table	Provided/ Installed by Philips Healthcare	Philips		2' - 0"	2' - 10"	7' - 10"	Hardwire		
1P752	SBC	1	Philips Skyplate Battery Charger 2	Provided/ Installed by Philips Healthcare	Philips		2' - 0"	1' - 11"	1' - 9"	Hardwire		
1P752	WAP	1	Philips Wi-Fi Access Point	Provided/ Installed by Philips Healthcare	Philips		0' - 3"	0' - 3"	0' - 7"	Hardwire	Yes	
1P754	CS	1	Philips CSM3 Overhead X-Ray Tube	3 Provided/ Installed by Philips Healthcare	Philips		6' - 0"	2' - 6"	7' - 9"	Hardwire	Yes	
1P754	DGS	1	Philips Wall-Mounted Detector & Grid Storage	Provided/ Installed by Philips Healthcare	Philips		1' - 3"	0' - 4"	1' - 10"			
1P754	DVS	1	Philips BuckyDiagnost VS Digital	3 Provided/ Installed by Philips Healthcare	Philips		7' - 4"	1' - 5"	3' - 8"	Hardwire	Yes	
1P754	ELW	1	Philips Eleva Workspot	Provided/ Installed by Philips Healthcare	Philips		1' - 6"	1' - 6"	1' - 6"	Hardwire	Yes	
1P754	F1	1	Philips Wall Mounted X-Ray Tube Connection	Provided/ Installed by Philips Healthcare	Philips		0' - 8"	0' - 8"	0' - 8"	Hardwire	Yes	
1P754	F5	1	Med Gas Connections	Provided/ Installed by Contractor			0' - 2"	0' - 10"	0' - 1"			
1P754	F10	1	Furniture Cabinet	Provided/ Installed by Contractor			7' - 0"	2' - 0"	1' - 6"			
1P754	F11	1	Mobile Crash Cart	3 Provided/ Installed by Department	Generic	Generic	2' - 6"	2' - 0"	2' - 0"			
1P754	F13	1	Wall-Mounted Lead Apron Hanger	Provided/ Installed by Contractor	Merry X-Ray	RT Fold: 100020, LT Fold: 126776	1' - 5"	0' - 4"	2' - 3"			
1P754	F14	1	23 Gallon Trash Can	Provided/ Installed by Contractor	Rubbermaid Commercial Products	1883552	2' - 8"	1' - 1"	1' - 10"			
1P754	F17	2	Curtain Track Straight - HGA	Provided/ Installed by Contractor			0' - 2"	0' - 2"	3' - 8"			
1P754	F20	1	Linen Hamper	Provided/ Installed by Department			2' - 8"	1' - 6"	1' - 6"			
1P754	F21	1	Wall-Mounted Sharps Container	Provided by Department/ Installed by Contractor			2' - 0"	0' - 6"	1' - 8"			
1P754	F22	3	3 Box Glove Dispenser	Provided by Department/ Installed by Contractor			1' - 7"	0' - 5"	1' - 0"			
1P754	F23	1	Medical Waste Blue Bin	Provided/ Installed by Department			2' - 0"	1' - 0"	1' - 0"			
1P754	F24	1	Wall Clock	Provided/ Installed by Department	Office Depot		1' - 0"	0' - 2"	1' - 0"			
1P754	F25	1	Mobile Patient Chair	Provided/ Installed by Department			3' - 0"	2' - 0"	2' - 0"			
1P754	F26	2	Hand Sanitizer Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P754	F27	1	Paper Towel Dispenser	3 Provided/ Installed by Contractor	Generic	Generic	1' - 4"	0' - 6"	1' - 0"			
1P754	F28	1	Soap Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P754	F29	1	Lotion Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P754	F30	1	Panic Button	Provided/ Installed by Contractor			0' - 2"	0' - 2"	0' - 2"	Hardwire		
1P754	F31	1	Room Signage	3 Provided/ Installed by Contractor			0' - 11"	0' - 1"	0' - 11"			
1P754	F32	1	Ergonomic Task Chair	Provided/ Installed by Department			3' - 0"	2' - 0"	2' - 4"			
1P754	F33	1	"In Use" Indicator	Provided/ Installed by Contractor			0' - 4"	0' - 2"	0' - 2"	Hardwire		
1P754	F34	1	Transfer Board & Wall Holder	Provided/ Installed by Contractor	Merry X-Ray	121571	6' - 0"	0' - 4"	1' - 11"			
1P754	F35	1	IV Pole 4-Hook	Provided/ Installed by Department	Medline	PEDP15764	6' - 0"	1' - 9"	1' - 9"			
1P754	F36	1	Step Stool	Provided/ Installed by Department	Drive Devilbiss Healthcare, Inc.	DHI130621SV	3' - 6"	1' - 3"	1' - 0"			
1P754	F38	1	Child Immobilizer	Provided/ Installed by Department	Merry X-Ray	112285	4' - 0"	0' - 4"	1' - 6"			
1P754	F39	1	Phone	3 Provided/ Installed by Department			0' - 4"	0' - 9"	0' - 7"	Hardwire		
1P754	ME	1	Philips Generator M-Cabinet CXA	Provided/ Installed by Philips Healthcare	Philips		3' - 3"	1' - 8"	2' - 4"	Hardwire		
1P754	MH	1	Philips Skyplate Mobile Holder	Provided/ Installed by Philips Healthcare	Philips		4' - 0"	2' - 3"	3' - 0"			
1P754	MS	1	Philips DigitalDiagnost TH/TH2 Table	Provided/ Installed by Philips Healthcare	Philips		2' - 0"	2' - 10"	7' - 10"	Hardwire		
1P754	SBC	1	Philips Skyplate Battery Charger 2	Provided/ Installed by Philips Healthcare	Philips		2' - 0"	1' - 11"	1' - 9"	Hardwire		
1P754	WAP	1	Philips Wi-Fi Access Point	Provided/ Installed by Philips Healthcare	Philips		0' - 3 23/256"	0' - 3"	0' - 7"	Hardwire	Yes	
1P758	CS	1	Philips CSM3 Overhead X-Ray Tube	3 Provided/ Installed by Philips Healthcare	Philips		6' - 0"	2' - 6"	7' - 9"	Hardwire	Yes	
1P758	DGS	1	Philips Wall-Mounted Detector & Grid Storage	Provided/ Installed by Philips Healthcare	Philips		1' - 3"	0' - 4"	1' - 10"			
1P758	DVS	1	Philips BuckyDiagnost VS Digital	3 Provided/ Installed by Philips Healthcare	Philips		7' - 4"	1' - 5"	3' - 8"	Hardwire	Yes	
1P758	ELW	1	Philips Eleva Workspot	Provided/ Installed by Philips Healthcare	Philips		1' - 6"	1' - 6"	1' - 6"	Hardwire	Yes	
1P758	F1	1	Philips Wall Mounted X-Ray Tube Connection	Provided/ Installed by Philips Healthcare	Philips		0' - 8"	0' - 8"	0' - 8"	Hardwire	Yes	
1P758	F5	1	Med Gas Connections	Provided/ Installed by Contractor			0' - 2"	0' - 10"	0' - 1"			
1P758	F10	1	Furniture Cabinet	Provided/ Installed by Contractor			7' - 0"	2' - 0"	1' - 6"			
1P758	F11	1	Mobile Crash Cart	3 Provided/ Installed by Department	Generic	Generic	2' - 6"	2' - 0"	2' - 0"			
1P758	F13	1	Wall-Mounted Lead Apron Hanger	Provided/ Installed by Contractor	Merry X-Ray	RT Fold: 100020, LT Fold: 126776	1' - 5"	0' - 4"	2' - 3"			
1P758	F14	1	23 Gallon Trash Can	Provided/ Installed by Contractor	Rubbermaid Commercial Products	1883552	2' - 8"	1' - 1"	1' - 10"			
1P758	F17	2	Curtain Track Straight - HGA	Provided/ Installed by Contractor			0' - 2"	0' - 2"	3' - 8"			
1P758	F20	1	Linen Hamper	Provided/ Installed by Department			2' - 8"	1' - 6"	1' - 6"			
1P758	F21	1	Wall-Mounted Sharps Container	Provided by Department/ Installed by Contractor			2' - 0"	0' - 6"	1' - 8"			
1P758	F22	3	3 Box Glove Dispenser	Provided by Department/ Installed by Contractor			1' - 7"	0' - 5"	1' - 0"			
1P758	F23	1	Medical Waste Blue Bin	Provided/ Installed by Department			2' - 0"	1' - 0"	1' - 0"			
1P758	F24	1	Wall Clock	Provided/ Installed by Department	Office Depot		1' - 0"	0' - 2"	1' - 0"			
1P758	F25	1	Mobile Patient Chair	Provided/ Installed by Department			3' - 0"	2' - 0"	2' - 0"			
1P758	F26	2	Hand Sanitizer Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P758	F27	1	Paper Towel Dispenser	3 Provided/ Installed by Contractor	Generic	Generic	1' - 4"	0' - 6"	1' - 0"			
1P758	F28	1	Soap Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P758	F29	1	Lotion Dispenser - HGA	Provided/ Installed by Contractor	Ecolab		0' - 10"	0' - 5"	0' - 6"			
1P758	F30	1	Panic Button	Provided/ Installed by Contractor			0' - 2"	0' - 2"	0' - 2"	Hardwire		
1P758	F31	1	Room Signage	3 Provided/ Installed by Contractor			0' - 11"	0' - 1"	0' - 11"			
1P758	F32	1	Ergonomic Task Chair	Provided/ Installed by Department			3' - 0"	2' - 0"	2' - 4"			
1P758	F33	1	"In Use" Indicator	Provided/ Installed by Contractor			0' - 4"	0' - 2"	0' - 2"	Hardwire		
1P758	F34	1	Transfer Board & Wall Holder	Provided/ Installed by Contractor	Merry X-Ray	121571	6' - 0"	0' - 4"	1' - 11"			
1P758	F35	1	IV Pole 4-Hook	Provided/ Installed by Department	Medline	PEDP15764	6' - 0"	1' - 9"	1' - 9"			
1P758	F36	1	Step Stool	Provided/ Installed by Department	Drive Devilbiss Healthcare, Inc.	DHI130621SV	3' - 6"	1' - 3"	1' - 0"			
1P758	F37	1	Mobile Stairs	Provided/ Installed by Department	Cone Instruments		2' - 0"	2' - 0"	2' - 0"			
1P758	F38	1	Child Immobilizer	3 Provided/ Installed by Department	Merry X-Ray	112285	4' - 0"	0' - 4"	1' - 6"			
1P758	F39	1	Phone	Provided/ Installed by Department			0' - 4"	0' - 9"	0' - 7"	Hardwire		
1P758	ME	1	Philips Generator M-Cabinet CXA	Provided/ Installed by Philips Healthcare	Philips		3' - 3"	1' - 8"	2' - 4"	Hardwire		
1P758	MH	1	Philips Skyplate Mobile Holder	Provided/ Installed by Philips Healthcare	Philips		4' - 0"	2' - 3"	3' - 0"			
1P758	MS	1	Philips DigitalDiagnost TH/TH2 Table	Provided/ Installed by Philips Healthcare	Philips		2' - 0"	2' - 10"	7' - 10"	Hardwire		
1P758	SBC	1	Philips Skyplate Battery Charger 2	Provided/ Installed by Philips Healthcare	Philips		2' - 0"	1' - 11"	1' - 9"	Hardwire		
1P758	WAP	1	Philips Wi-Fi Access Point	Provided/ Installed by Philips Healthcare	Philips		0' - 3 1/64"	0' - 3"	0' - 7"	Hardwire	Yes	

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SACRAMENTO, CALIFORNIA 95817
(916)734-7024

9557580
SESP 1P752 - 1P758
X-RAY REPLACEMENT

HCAI #: S231373-34-00
HCAI FACILITY ID #:10619
HCAI STAMP

LICENSED ARCHITECT
GREG R. OSECHECK
C-33192
July 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE
3	ACD 01	5/23/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1500-148-00

EQUIPMENT SCHEDULE

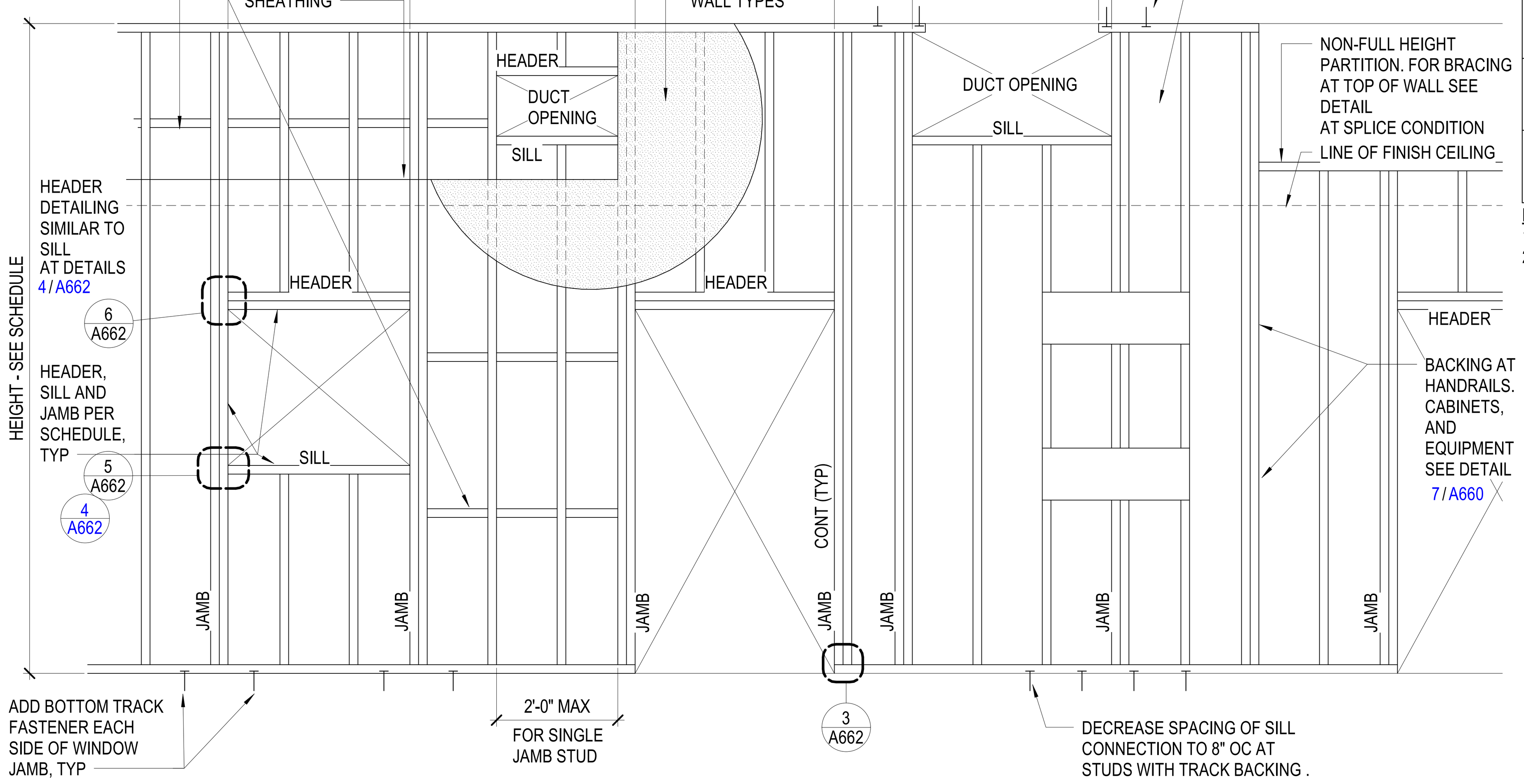
DATE: 08.28.2023

CONSTRUCTION DOCUMENTS

A202

CONSTRUCTION DOCUMENTS

HCAI STAMP



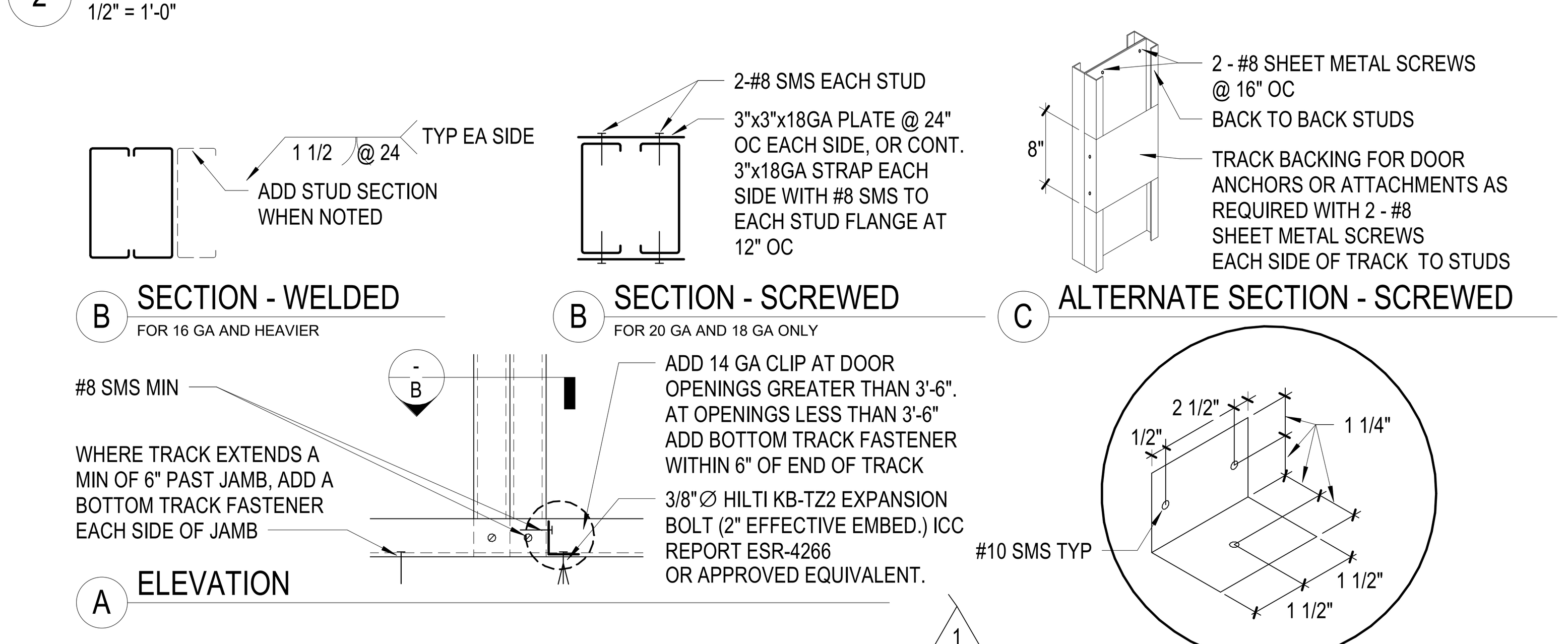
1 TYPICAL FRAMING ELEVATION
1/2" = 1'-0"

INTERIOR WALL OPENING FRAMING SCHEDULE

MAX OPNG	MIN STUD DEPTH	MAX WALL HEIGHT	JAMB DETAIL NO	JAMB MIN STUD SIZE	JAMB SECTION	ALTERNATE JAMB SECTION	HEADER DETAIL NO	HEADER MIN STUD SIZE / MIN TRACK SIZE	HEADER SECTION	SILL DETAIL NO	SILL MIN STUD SIZE / MIN TRACK SIZE	SILL SECTION
2'10"	3 5/8"	15'-6"	3 / A662	362S162-33			4 / A662	NONE 362T150-33		4 / A662	NONE 362T150-33	
3'-6"	3 5/8"	15'-6"	3 / A662	362S162-43			4 / A662	NONE 362T150-43		4 / A662	NONE 362T150-33	
5'-6"	3 5/8"	15'-6"	3 / A662	(2)-362S162-54		362S200-43	5 / A662	362S162-43 (2) 362T150-43		5 / A662	362S162-43 (2) 362T150-43	
10'-0"	3 5/8"	15'-6"	3 / A662	(2)-362S162-54		362S200-43	6 / A662	(2) 600S162-43 (3) 362T150-43		5 / A662	362S162-43 (2) 362T150-43	

NOTES:
1. FOR STUD PROPERTIES SEE DETAIL 9 / A662 , INTERIOR WALL STUD SCHEDULE
2. AT HEADER AND SILL ASSEMBLIES USE SECTIONS WITH NO MFR PUNCHED OPENINGS

2 INTERIOR WALL OPENING FRAMING SCHEDULE
1/2" = 1'-0"



3 JAMB DETAIL
3" = 1'-0"

INTERIOR WALL STUD SCHEDULE

STUD SECTION	SPACING	MAX HEIGHT	DEFLECTION LIMITS (1),(2) COND. 1	COND. 2
250S162-54	16" OC	15'-6"	L/180	NA
362S162-33	16" OC	15'-6"	L/180	NA
362S162-43	16" OC	15'-6"	L/240	L/240
362S162-43	16" OC	20'-0"	L/180	NA
600S162-33	16" OC	20'-0"	L/240	L/240
600S162-43	16" OC	30'-0"	L/180	NA
800S162-43	16" OC	35'-0"	L/240	L/240

NOTES:
1. THE STUD CAPACITIES AND DEFLECTIONS ARE BASED ON THE FOLLOWING LOADING CONDITIONS: (NA IN SCHEDULE INDICATES STUD SECTION IS "NOT APPLICABLE" FOR LOADING CONDITION)

COND. 1: BASED ON THE FOLLOWING THREE LOAD COMBINATIONS

· UNIFORM LOAD= 5psf FOR MINIMUM LOADS

· SEISMIC LOAD IS BASED ON WALL WITH TWO LAYERS OF GYP BOARD EACH SIDE WITH Sds =0.498 AND Ip=1.5 WHICH INCLUDES A 100 PLF CABINET WEIGHT AND A 200LB CEILING BRACING WIRE LOAD AT 10 FEET SHARED BETWEEN TWO STUDS. SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMAITON.

· 200 POUND HANDRAIL LOAD APPLIED 36-INCHES ABOVE THE FLOOR. DEFLECTION MAY SLIGHTLY EXCEED LISTED DEFLECTION LIMIT ON THE ASSUMPTION THAT ALL OF THE HANDRAIL LOAD WILL NOT BE RESISTED BY ONE STUD. FOR SEISMIC LOADING DEFLECTION LIMIT IS L/120

COND. 2: 250 POUND GRAB BAR LOAD APPLIED 36-INCHES ABOVE THE FLOOR. DEFLECTION MAY SLIGHTLY EXCEED LISTED DEFLECTION LIMIT ON THE ASSUMPTION THAT ALL OF THE GRAB BAR LOAD WILL NOT BE RESISTED BY ONE STUD.

2. DEFLECTION LIMIT OF L/180 IS FOR FLEXIBLE FINISHES AND A DEFLECTION LIMIT OF L/240 IS FOR BRITTLE FINISHES SUCH AS TILE.

3.STUD PROPERTIES: BASED ON SSMA PRODUCTS, ICC REPORT 3064P

600 S 162 - 54
- MATERIAL THICKNESS BASED ON MILS
- FLANGE WIDTH. 162=1.625" (162x1/100 INCHES)
- STYLE: S=STUD SECTION. T=TRACK SECTION
- MEMBER DEPTH, 600=6" (600x1/100 INCHES)

DESIGN THICKNESS

MILS	GAGE	INCHES
33	20	0.0346
43	18	0.0451
54	16	0.0566
68	14	0.0713
97	12	0.1017

DESIGN STIFFENED LIP

SECTION	FLANGE WIDTH	
S125	1 1/4"	.188"
S137	1 3/8"	.375"
S162	1 5/8"	.500"
S200	2"	.625"
S250	2 1/2"	.625"

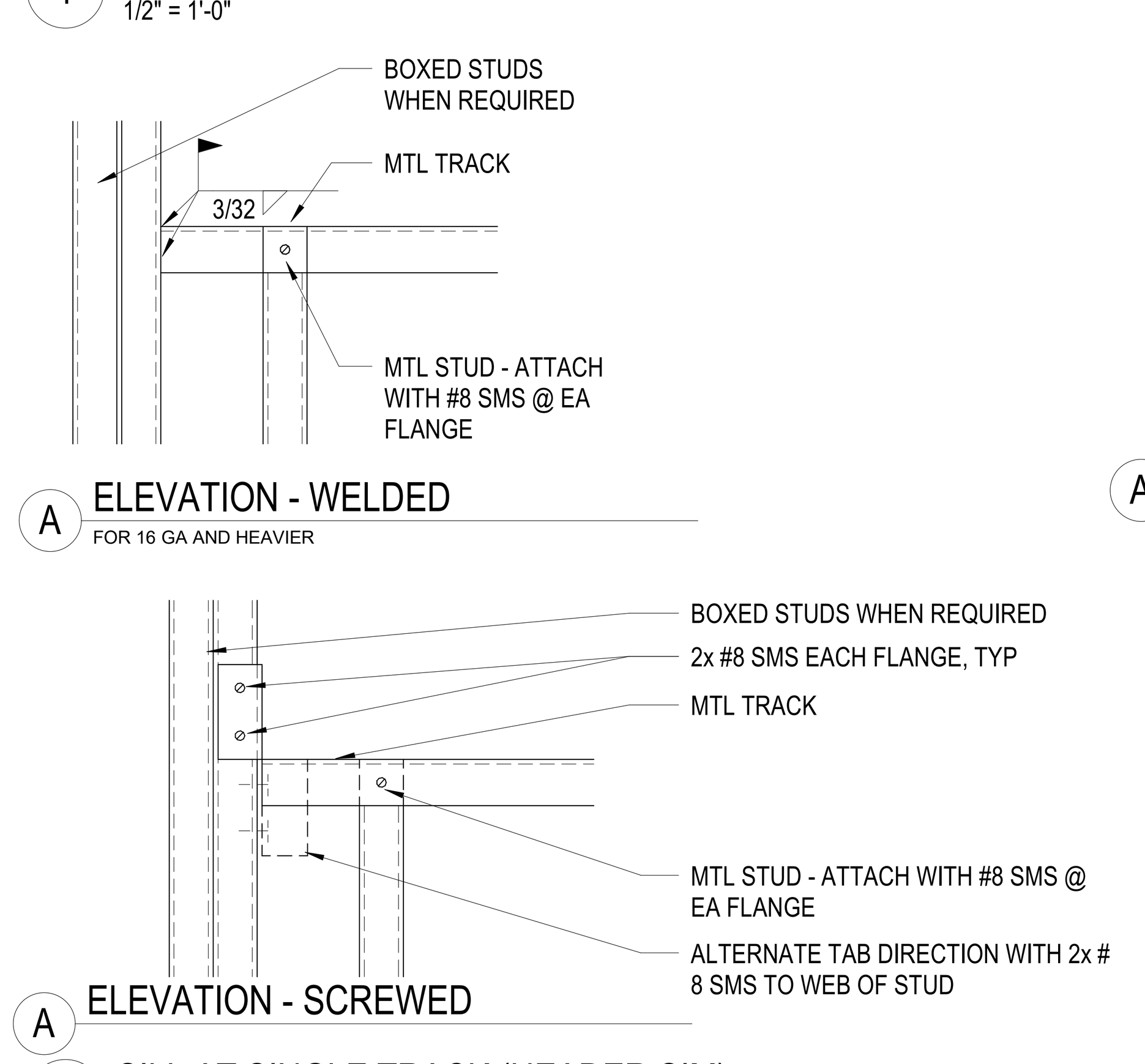
4. STEEL PROPERTIES: FOR 18 GAGE AND LESS (THINNER) THE DESIGN YIELD STRENGTH IS 33 Ksi AND FOR 16 GAGE AND GREATER THE DESIGN YIELD STRENGTH IS 50 Ksi

5. ALL STUD SECTIONS SHALL HAVE A STIFFENER LIP

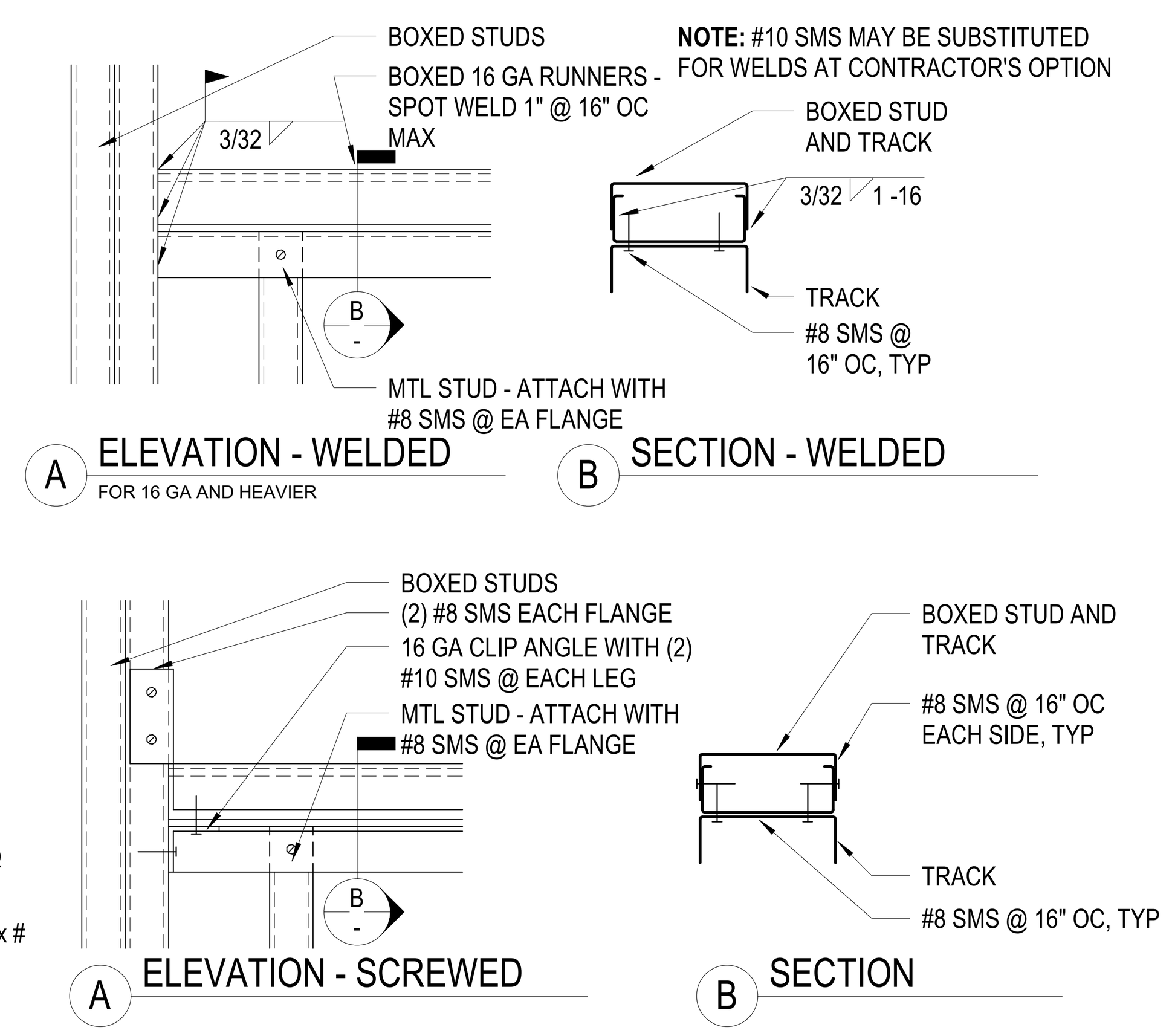
9 INTERIOR WALL STUD FRAMING SCHEDULE
1/2" = 1'-0"

GENERAL NOTES - STUD FRAMING GAUGES

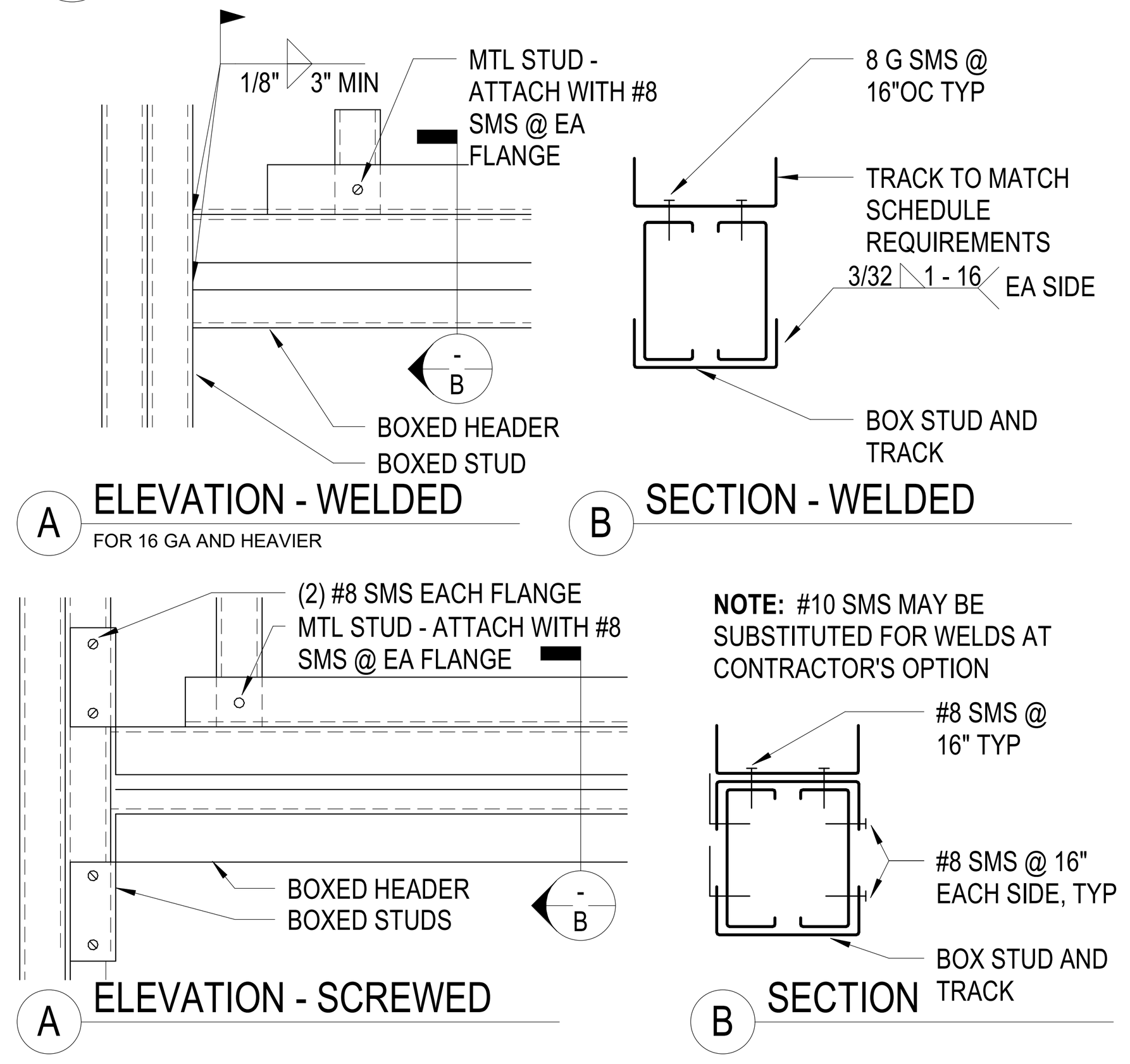
A. FRAMING IS TO BE 16 GA. MINIMUM. REFER TO UCD STANDARDS FOR FRAMING GAUGE STANDARDS.
B. FIREPROOFING AT DECKS AND BEAMS, WHEN REQUIRED, IS SHOWN DASHED (WHERE SHOWN). PATCHBACK 2-HR SPRAY-ON FIREPROOFING TO MATCH TYPE AND THICKNESS OF ADJACENT SURFACES WHERE IT HAS BEEN REMOVED. THE USE OF DISSIMILAR MATERIALS TO REPAIR FIREPROOFING SHALL NOT BE ALLOWED. PRODUCTS SHALL COMPLY TO ASTM E119, UL 263 FIRE TESTING LISTINGS.



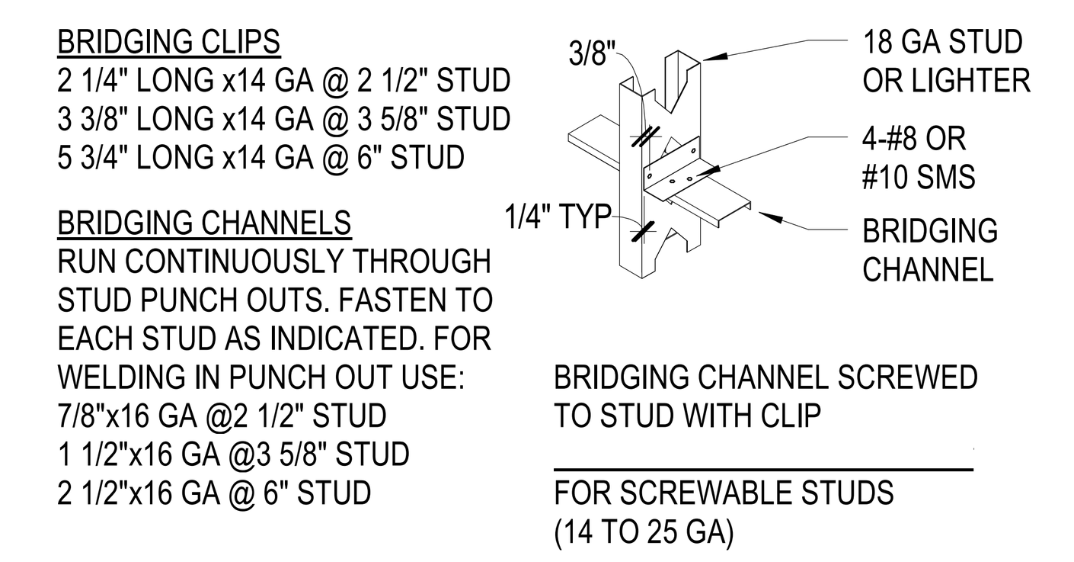
4 SILL AT SINGLE TRACK (HEADER SIM)
3" = 1'-0"



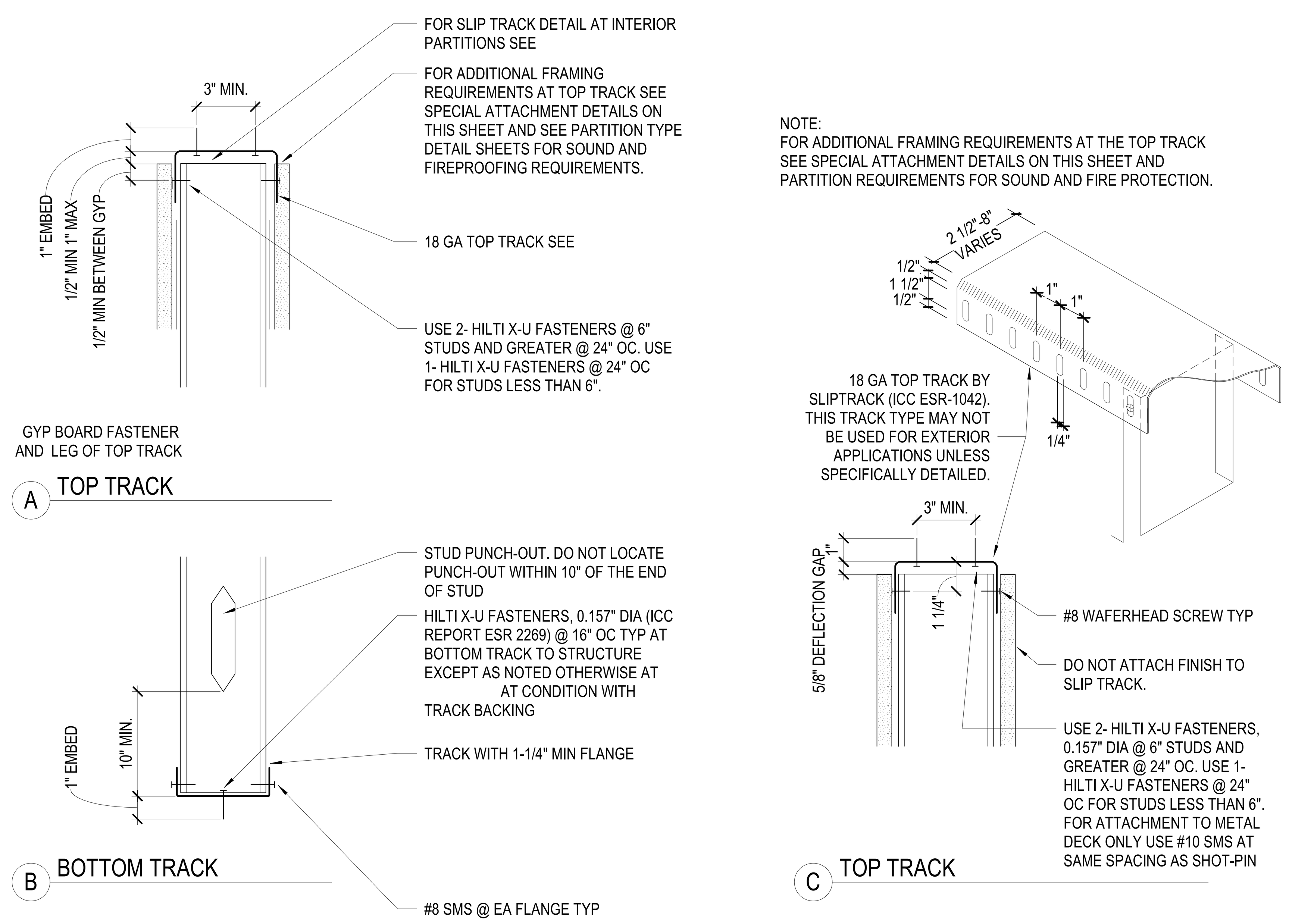
5 SILL AT BOXED SECTION (HEADER SIM)
3" = 1'-0"



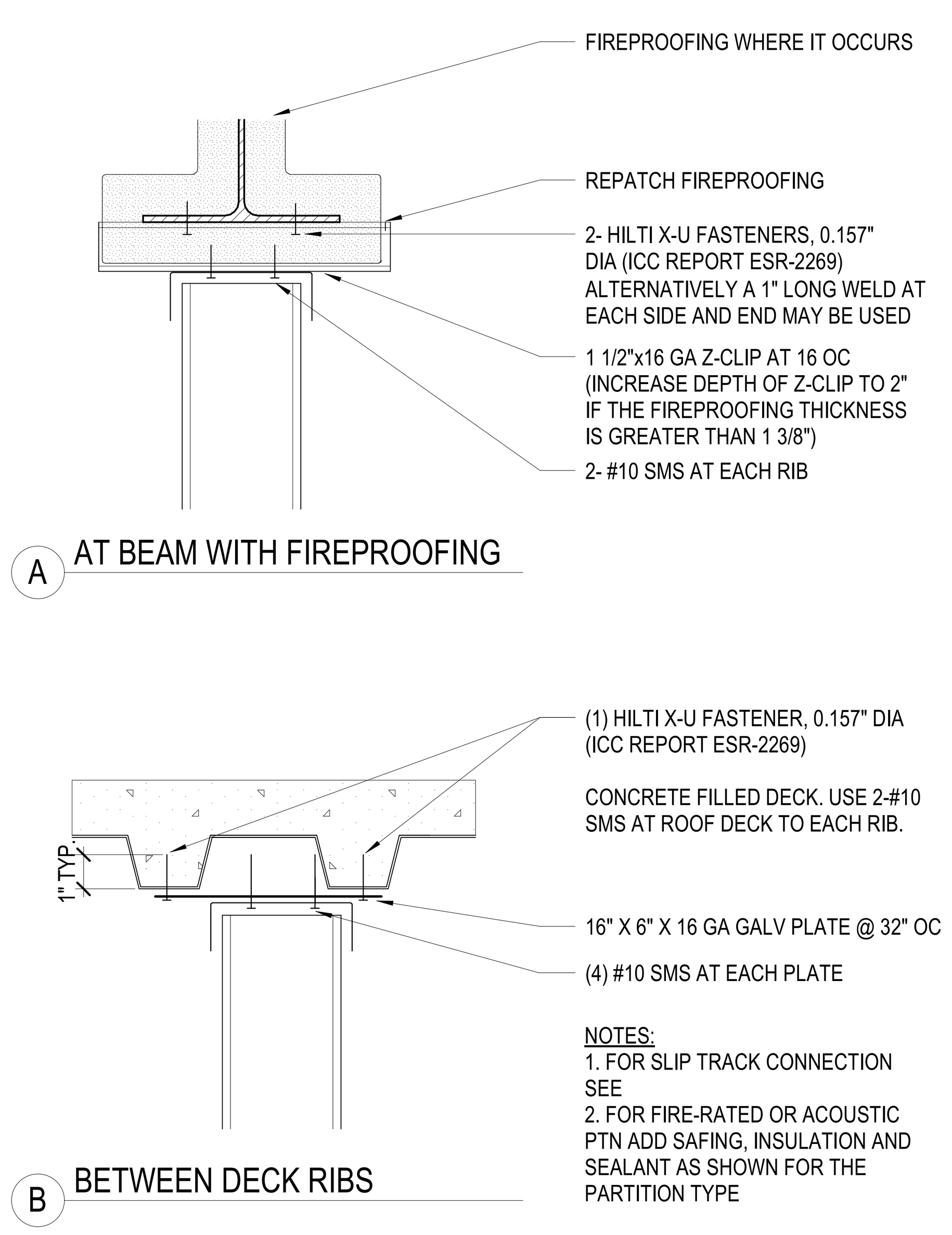
6 HEADER DETAIL AT BOXED SECTION
3" = 1'-0"



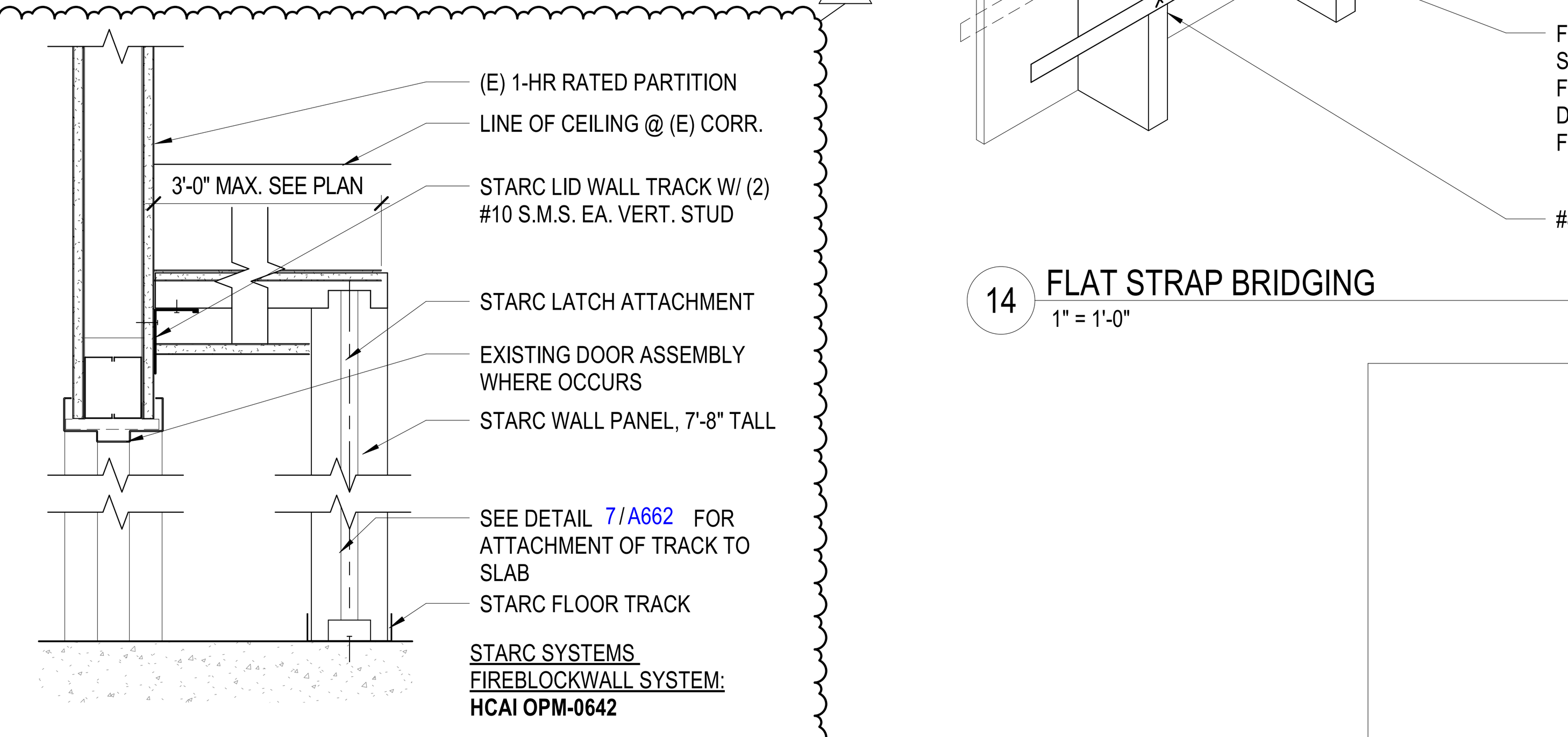
10 TYPICAL BRIDGING ATTACHMENT
1 1/2" = 1'-0"



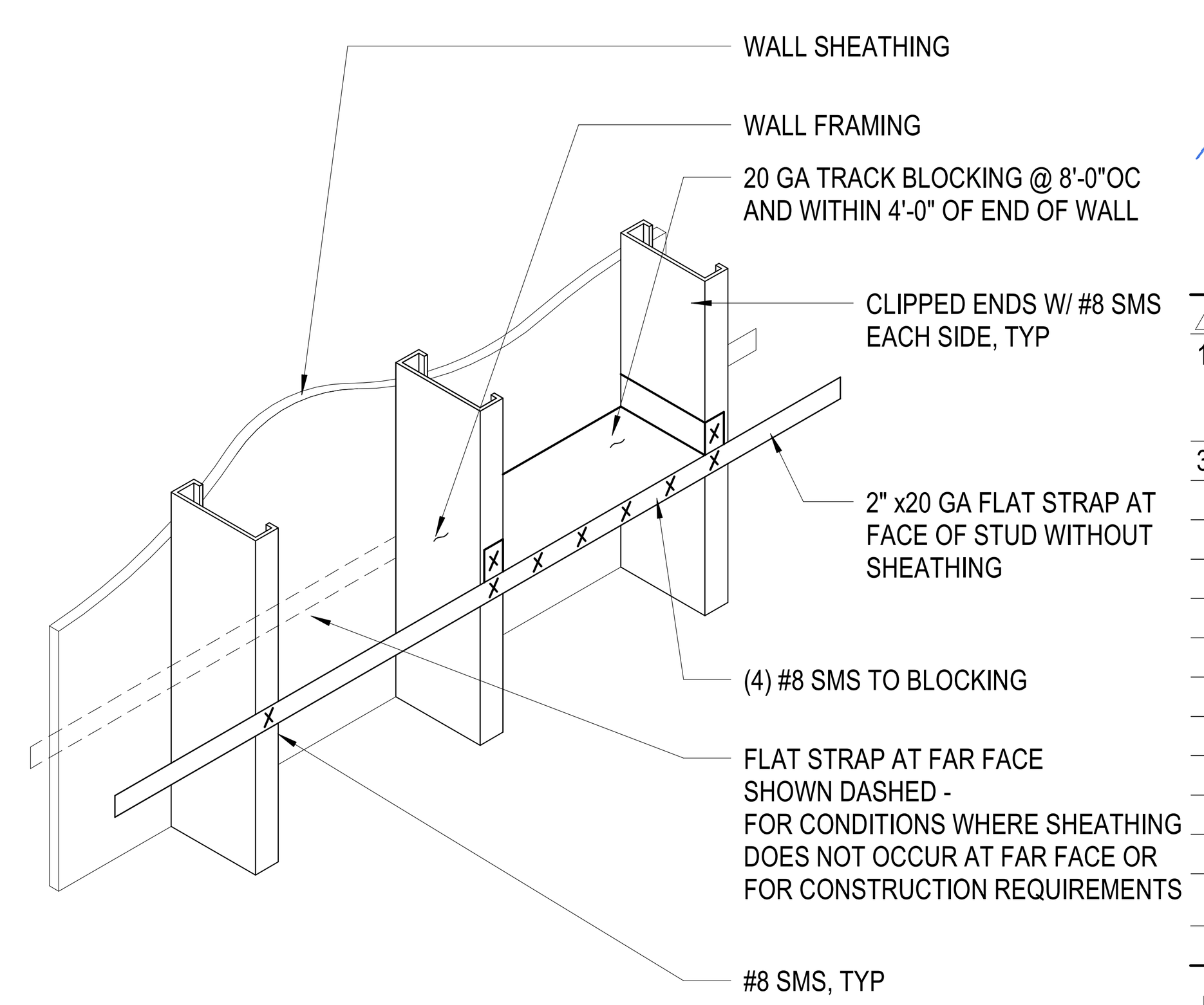
7 STUD TO TRACK CONNECTION
3" = 1'-0"



12 SPECIAL ATTACHMENT (REQD AT FULL HT PTN)
3" = 1'-0"



13 1-HR TEMP CONSTRUCTION BARRIER - STARC
1 1/2" = 1'-0"



14 FLAT STRAP BRIDGING
1" = 1'-0"

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9557580
SESP 1P752 - 1P758
X-RAY REPLACEMENT

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HCAI FACILITY ID #:10619
HCAI STAMP

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RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE
1	HCAI BACKCHECK RESPONSE 1	11/8/2023
3	ACD 01	5/23/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1500-148-00

INTERIOR METAL STUD FRAMING DETAILS

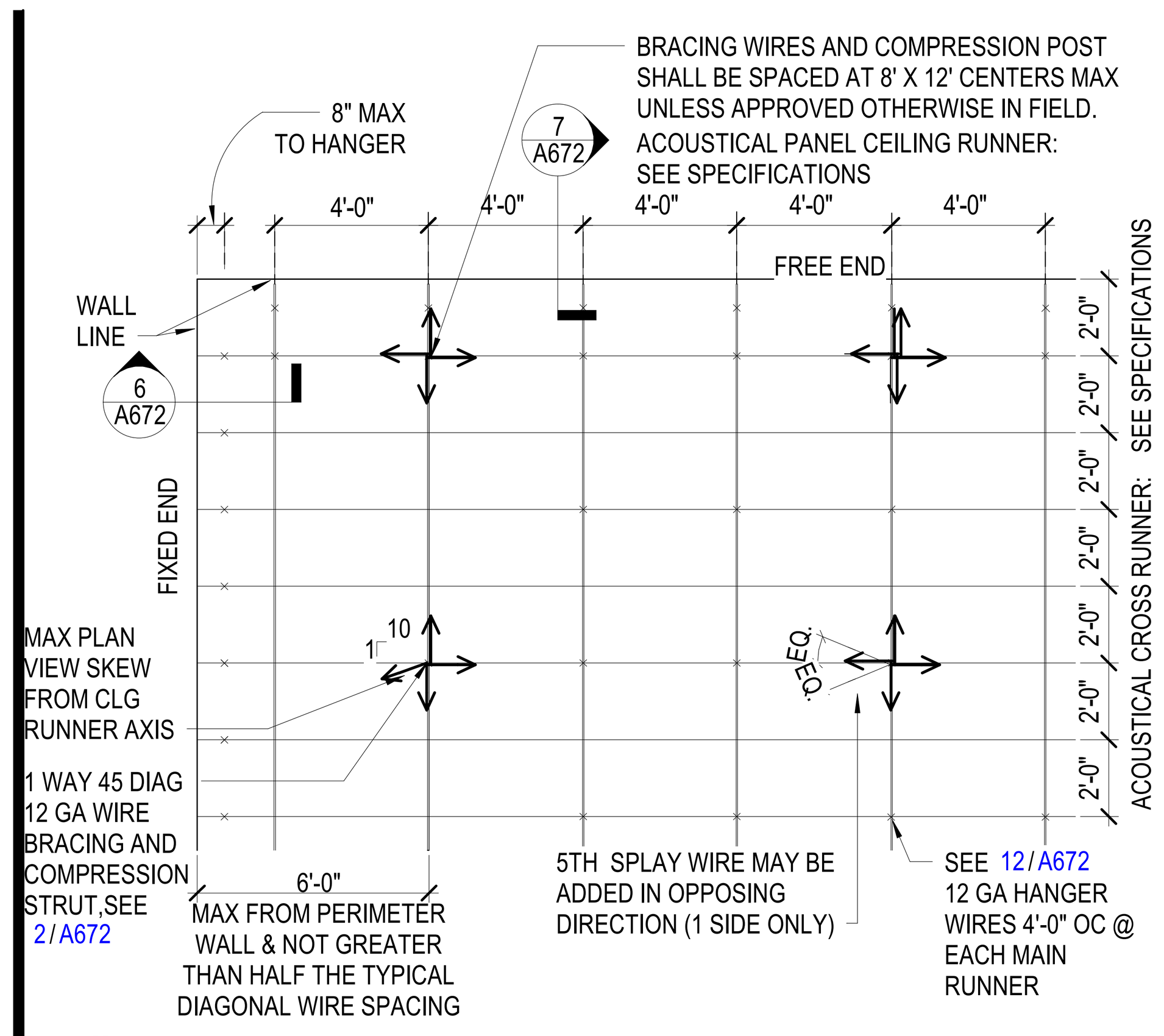
DATE: 08.28.2023

CONSTRUCTION DOCUMENTS

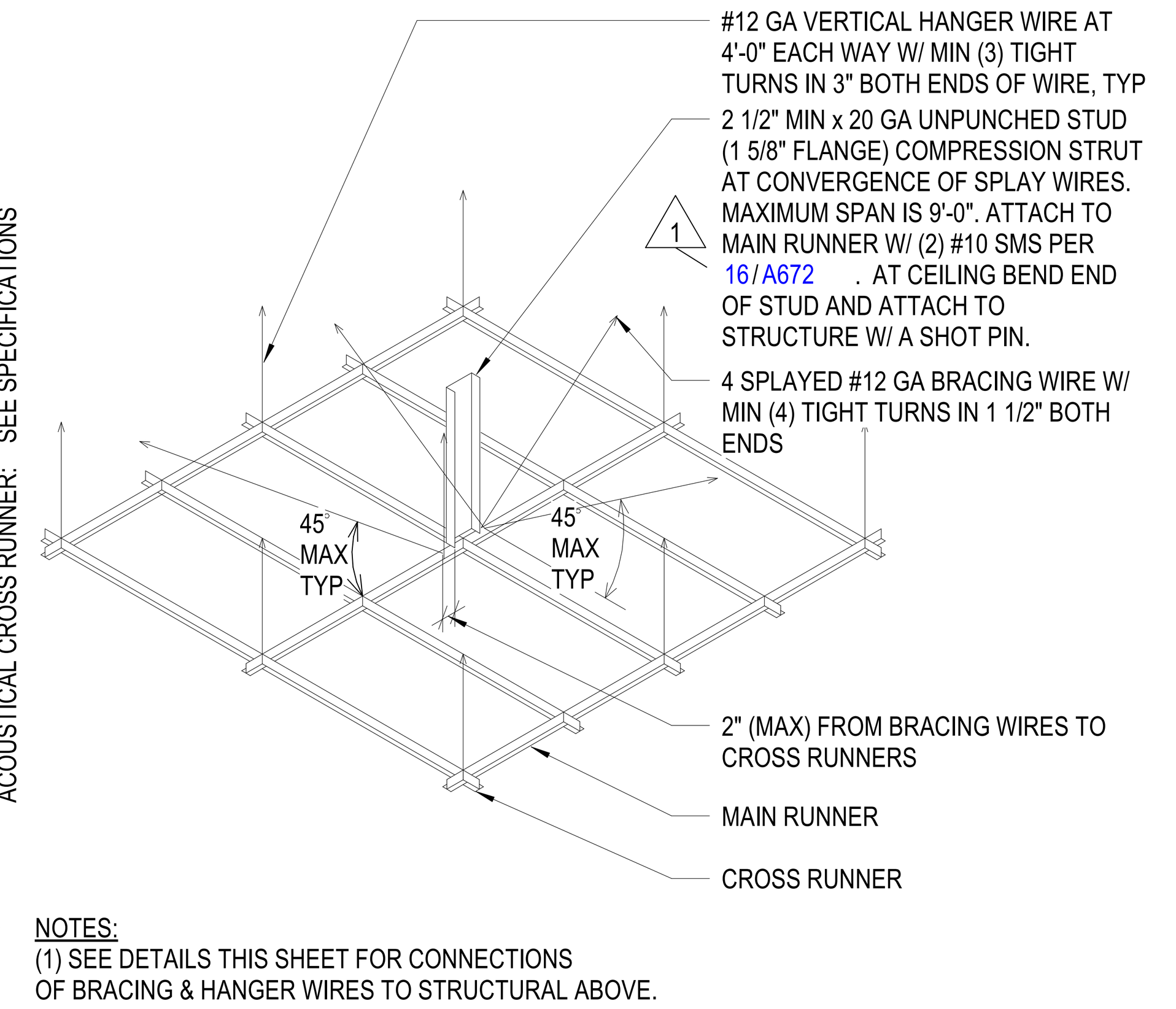
A662

CONSTRUCTION DOCUMENTS

HCAI STAMP

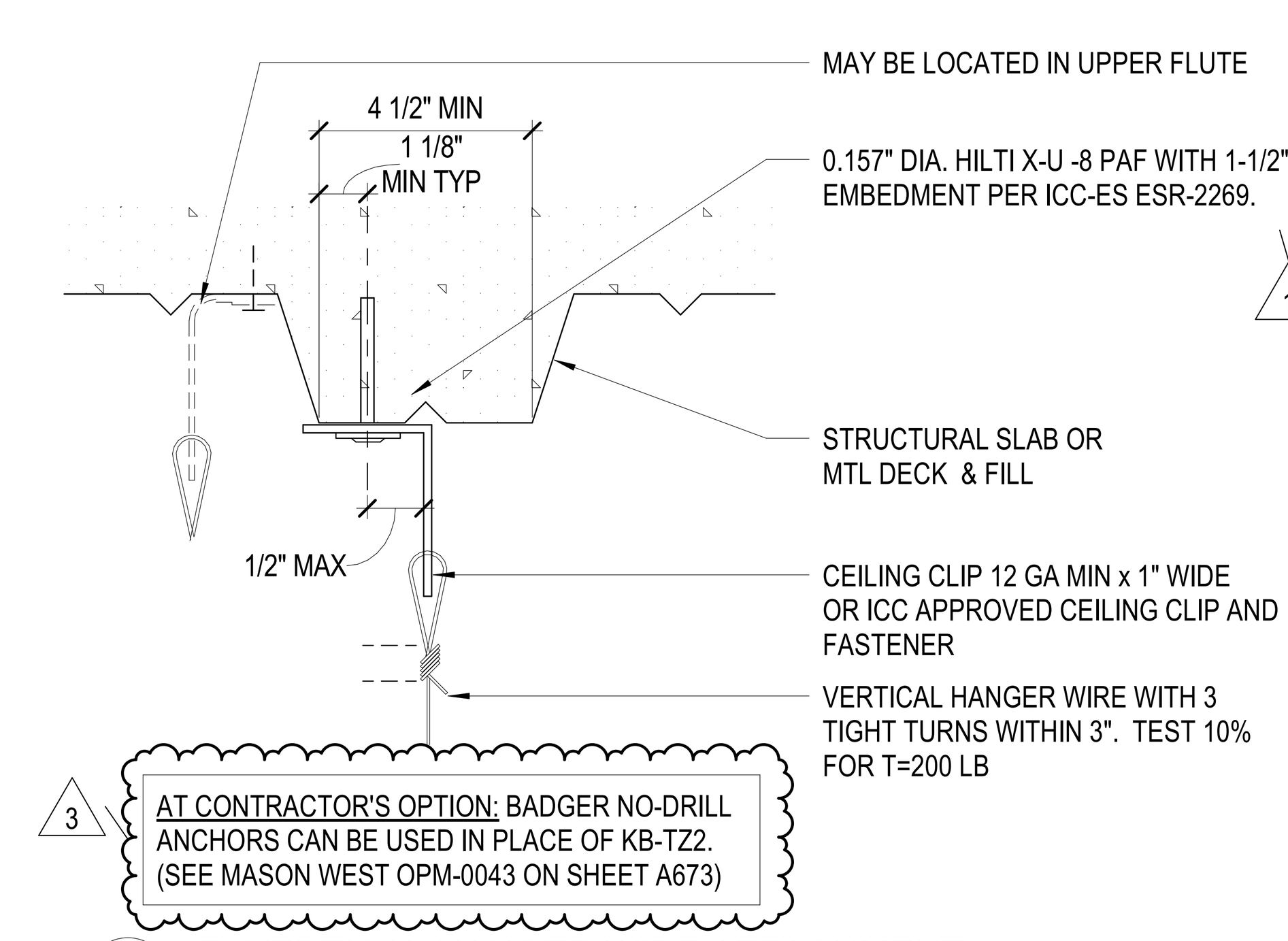


1 DIAGRAMMATIC PLAN ACOUSTICAL CEILING
3" = 1'-0"

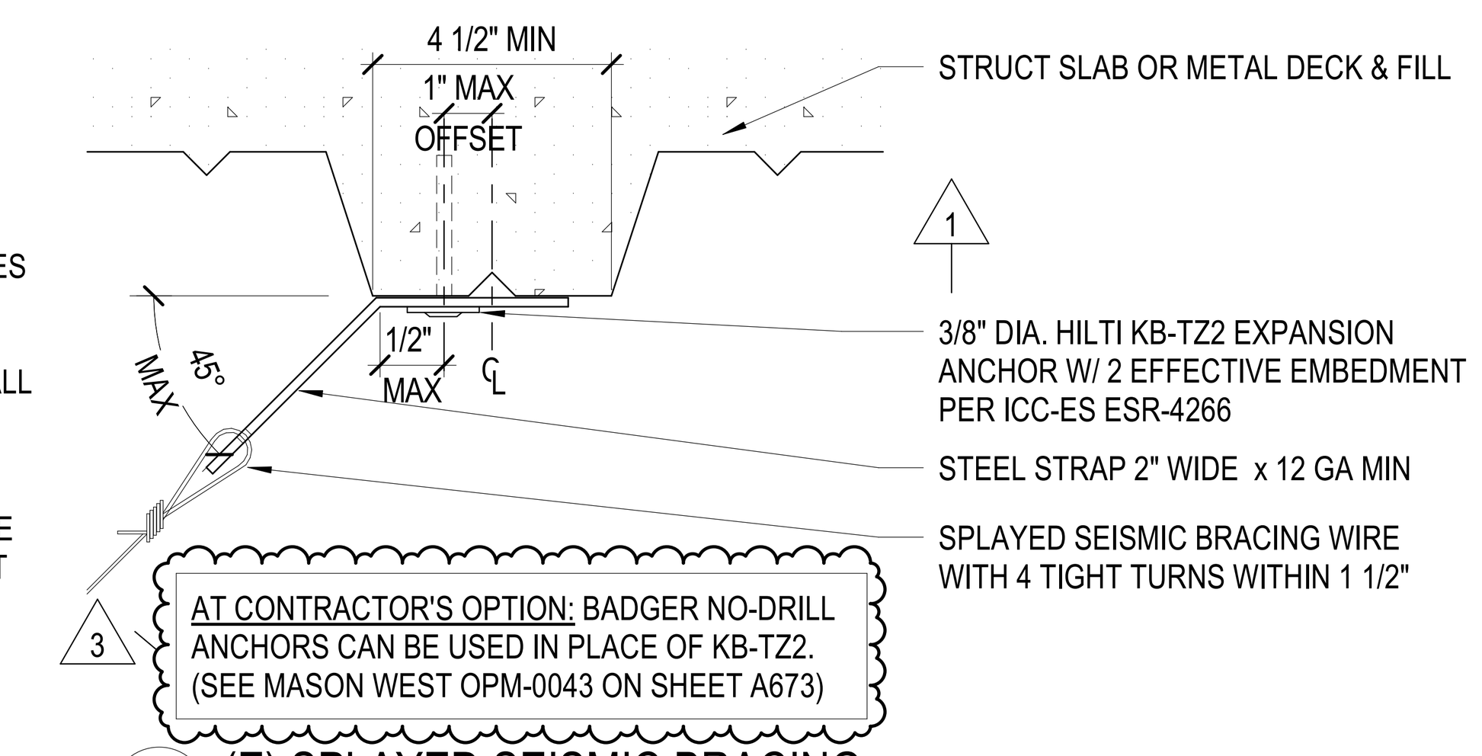


NOTES:
(1) SEE DETAILS THIS SHEET FOR CONNECTIONS OF BRACING & HANGER WIRES TO STRUCTURAL ABOVE.

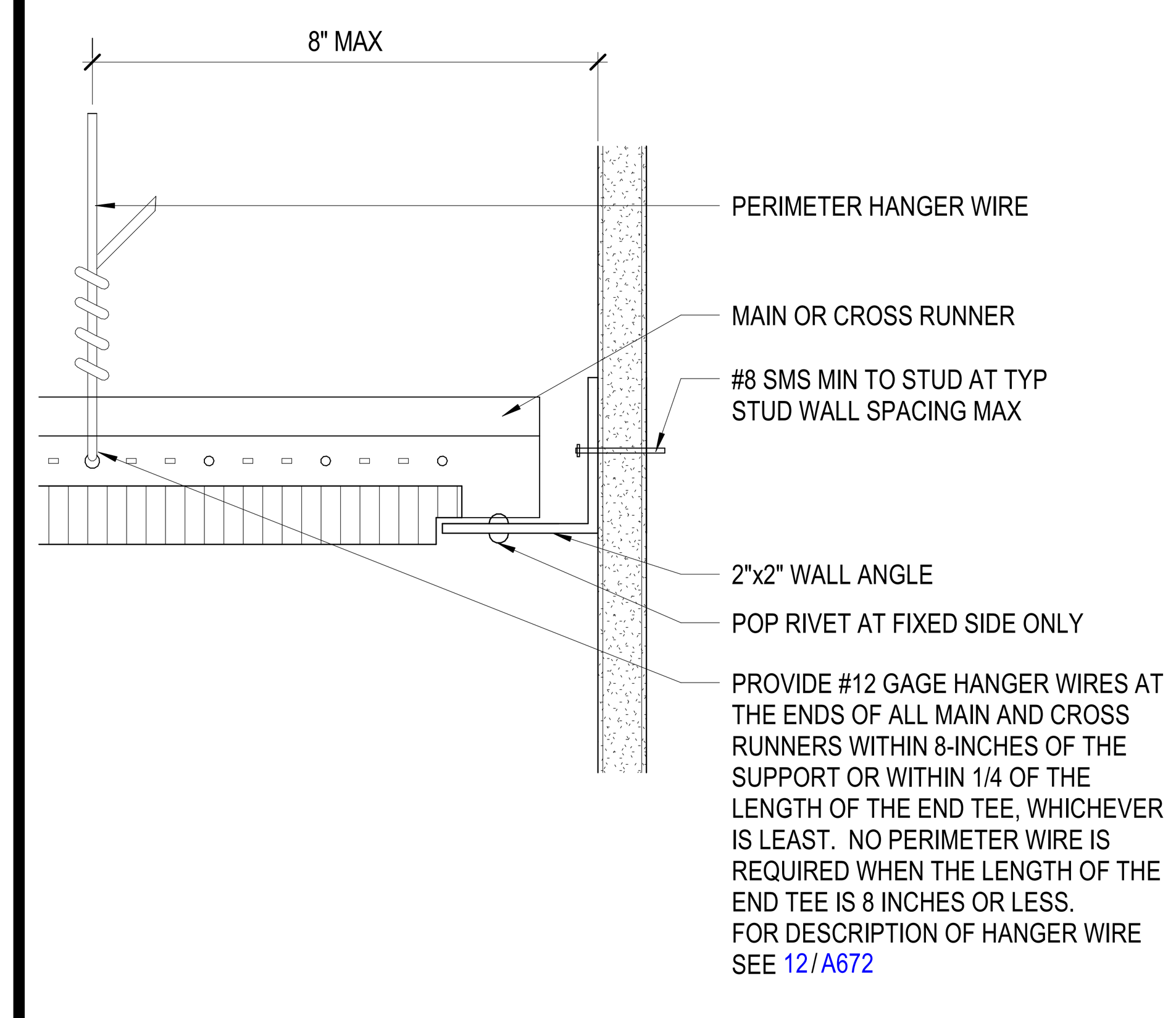
2 (E) BRACING AT ACOUSTICAL CEILING
3" = 1'-0"



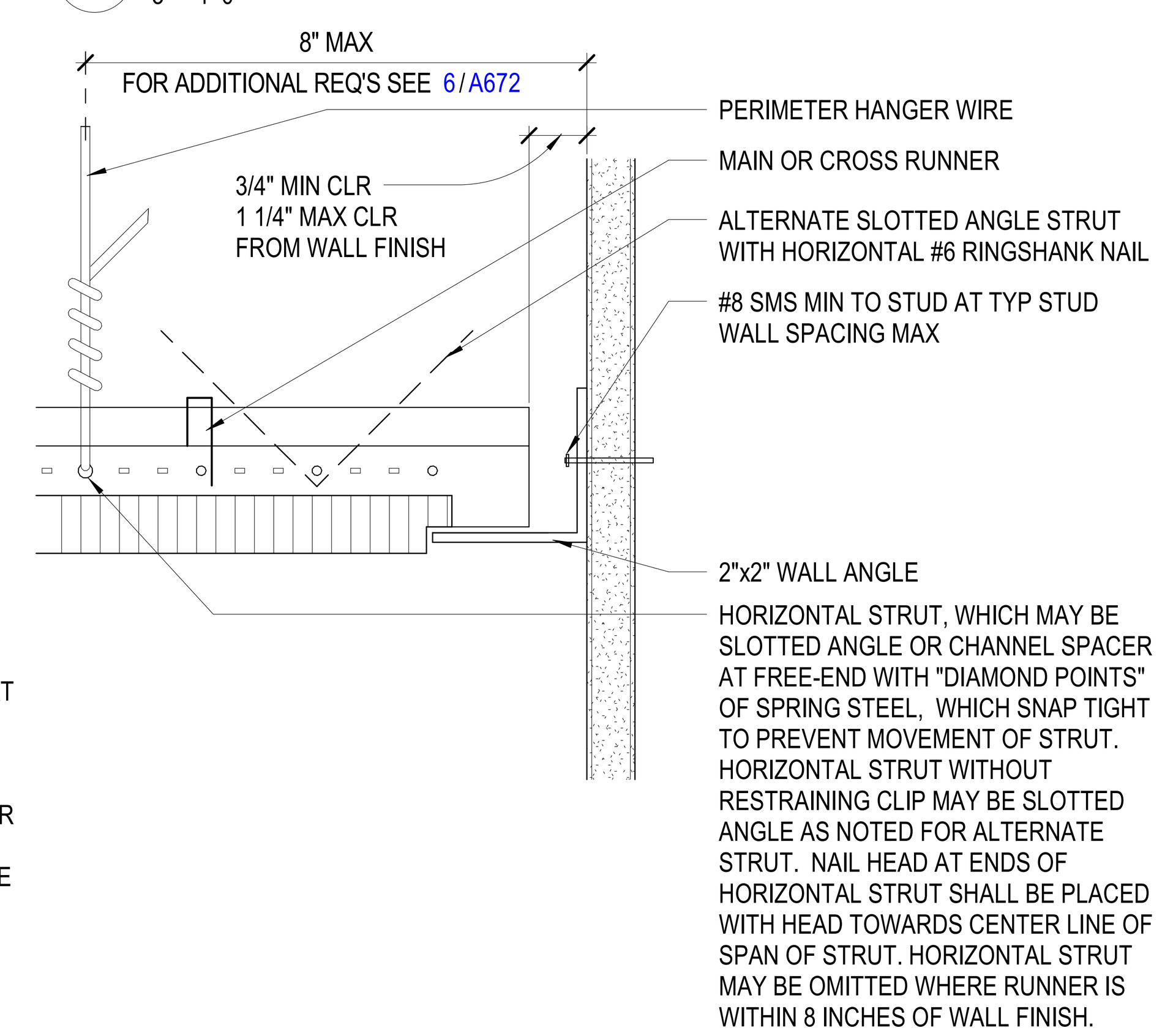
4 (E) VERTICAL HANGER WIRE ATTACHMENT
3" = 1'-0"



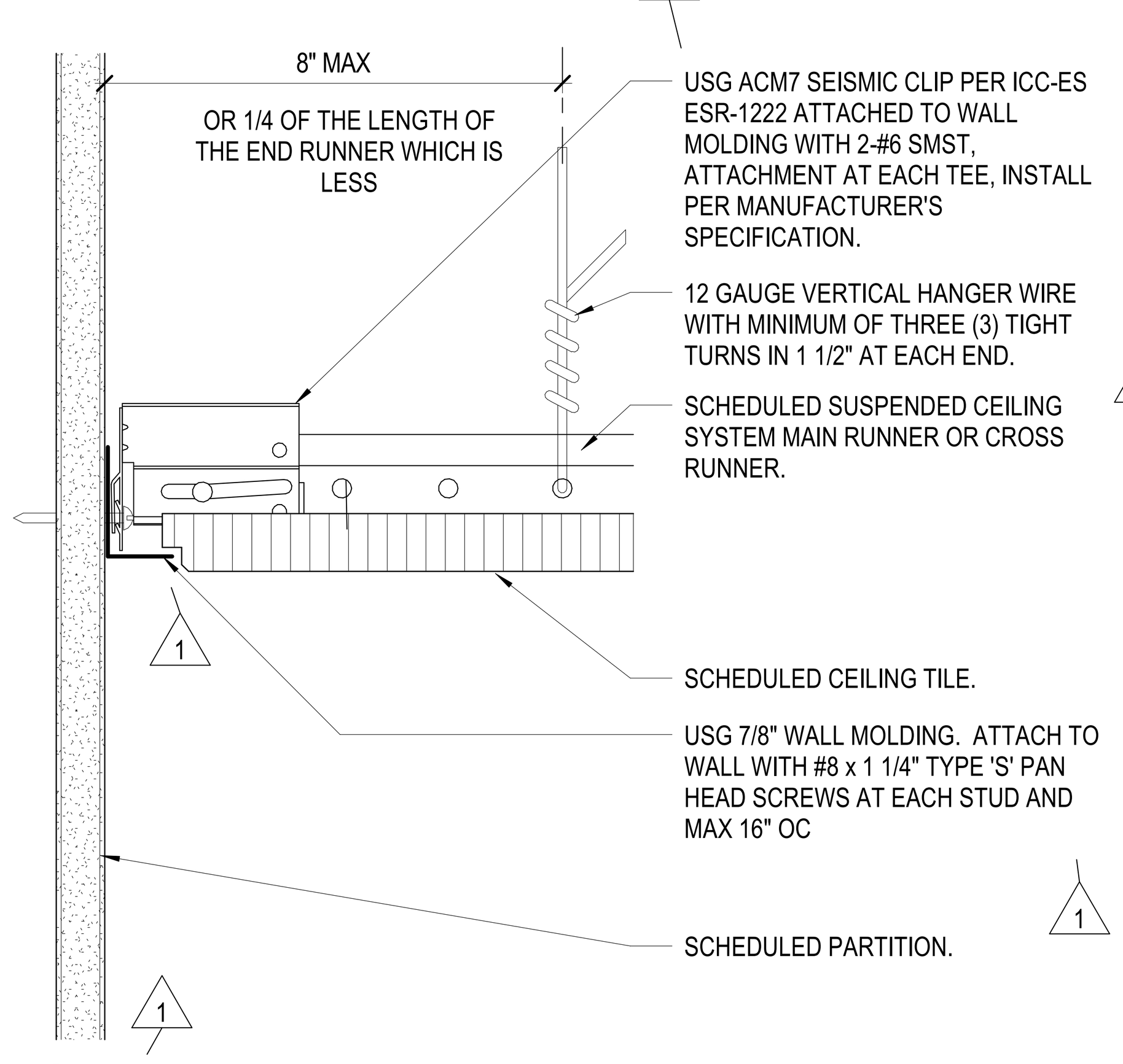
5 (E) SPLAYED SEISMIC BRACING
3" = 1'-0"



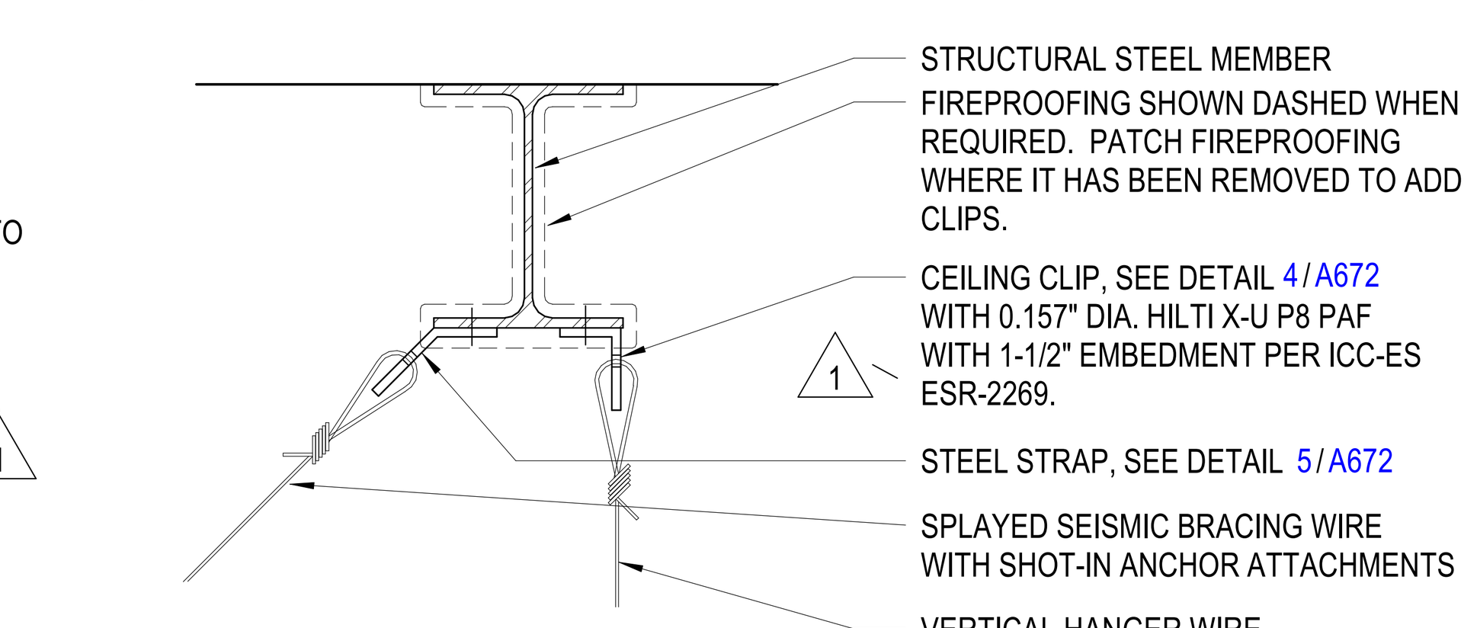
6 (E) FIXED-END SUSPENDED CEILING
6" = 1'-0"



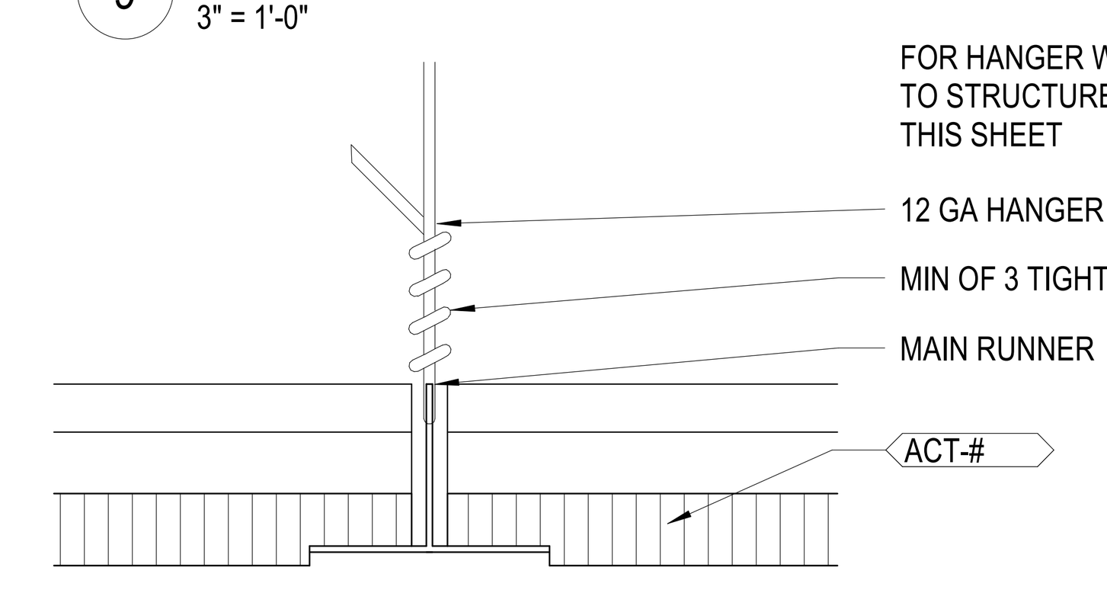
7 (E) FREE-END SUSPENDED CEILING
6" = 1'-0"



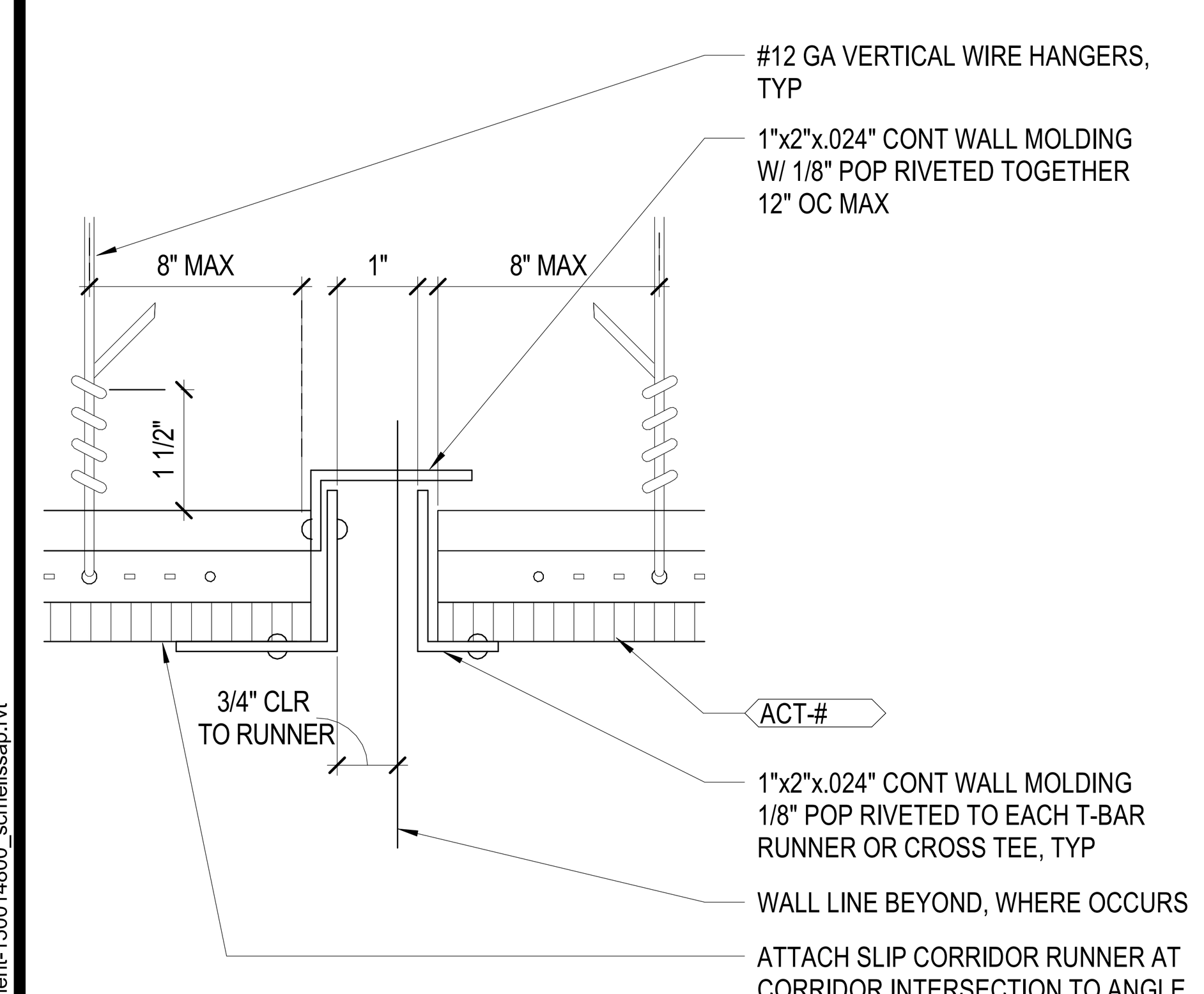
8 (E) CEILING AT ATTACHED WALL
6" = 1'-0"



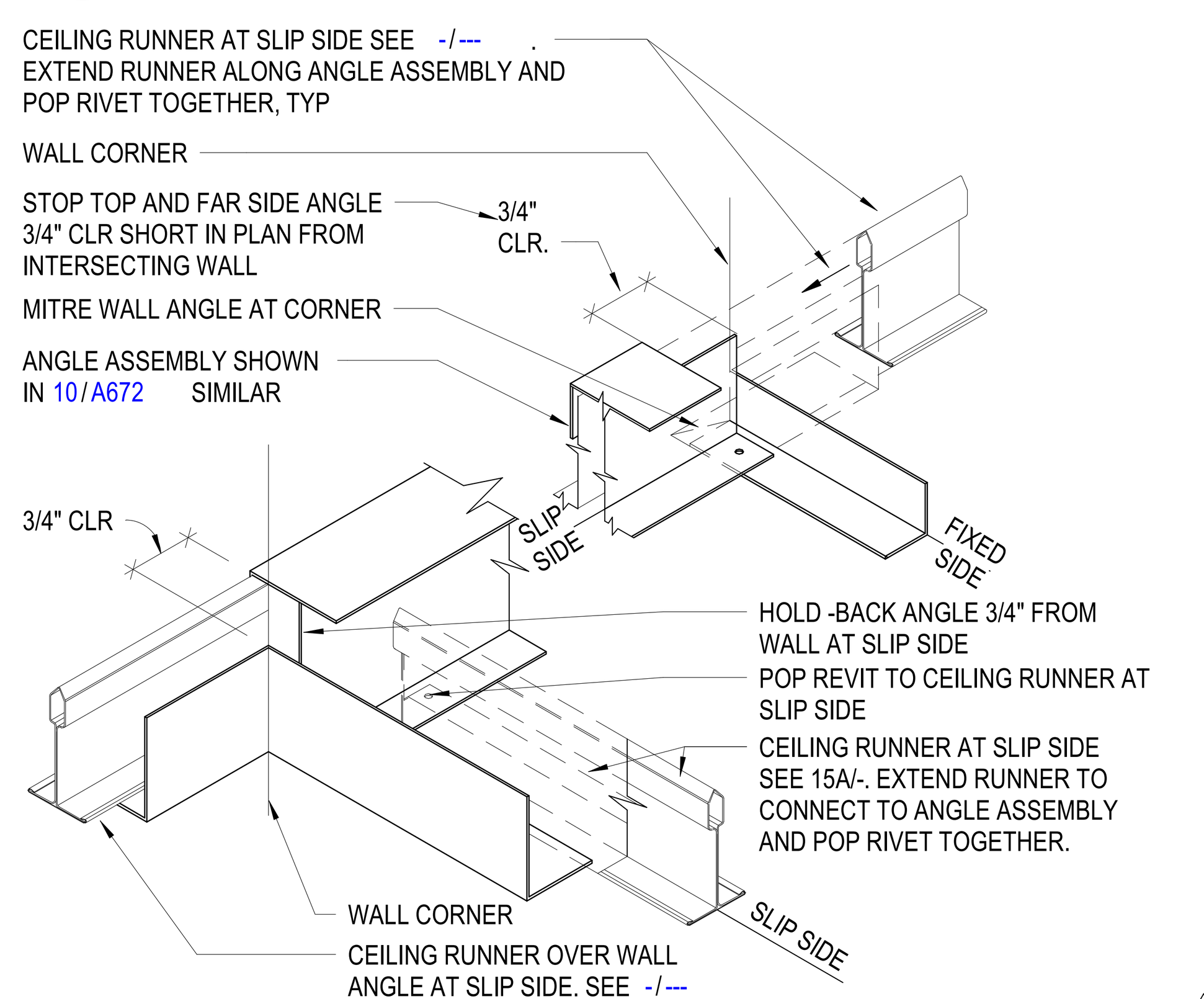
9 (E) CONNECTION AT STEEL BEAMS
3" = 1'-0"



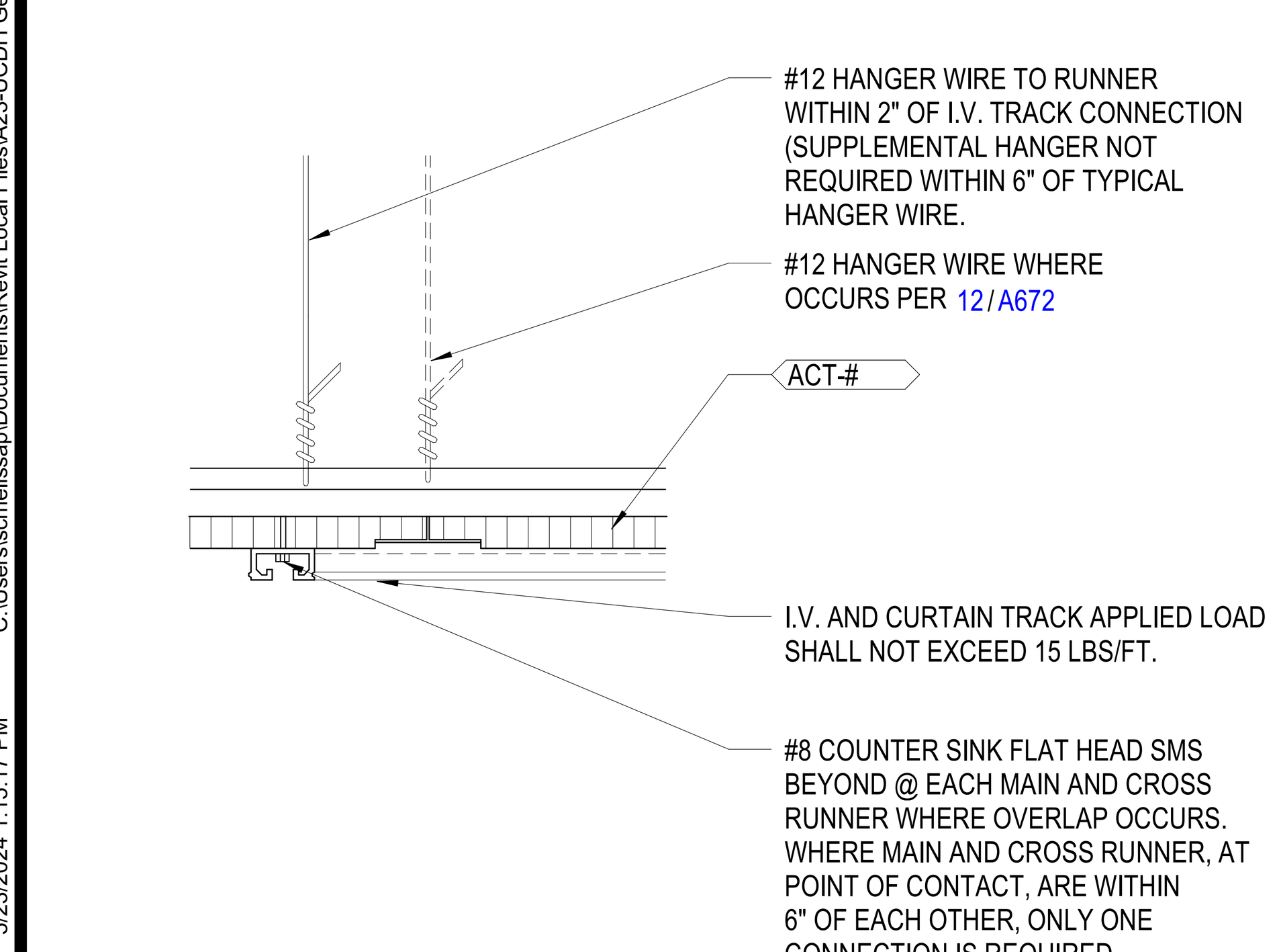
12 (E) HANGER WIRE CONNECTION TO GRID
6" = 1'-0"



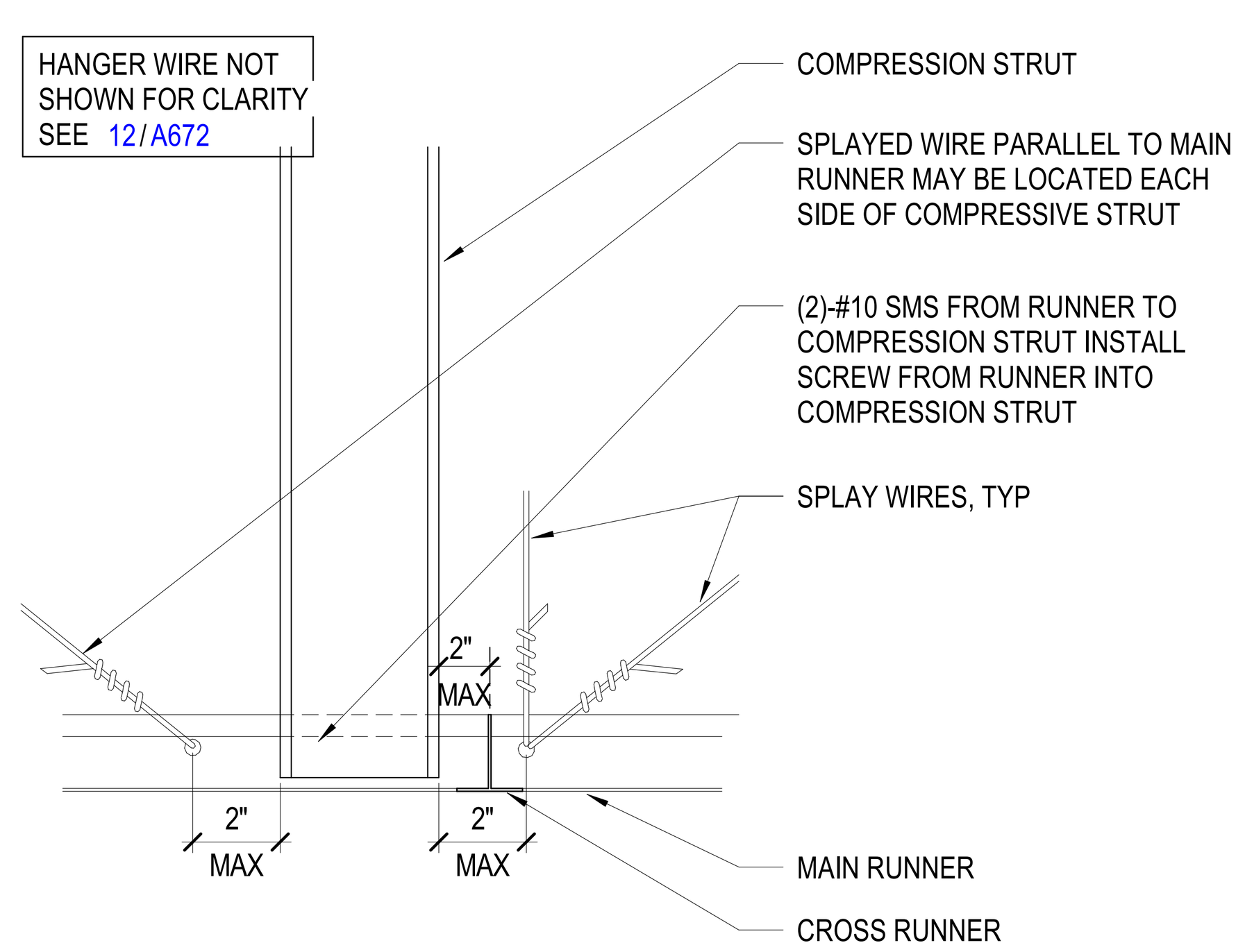
10 (E) EXP JOINT AT SUSP CEILING
6" = 1'-0"



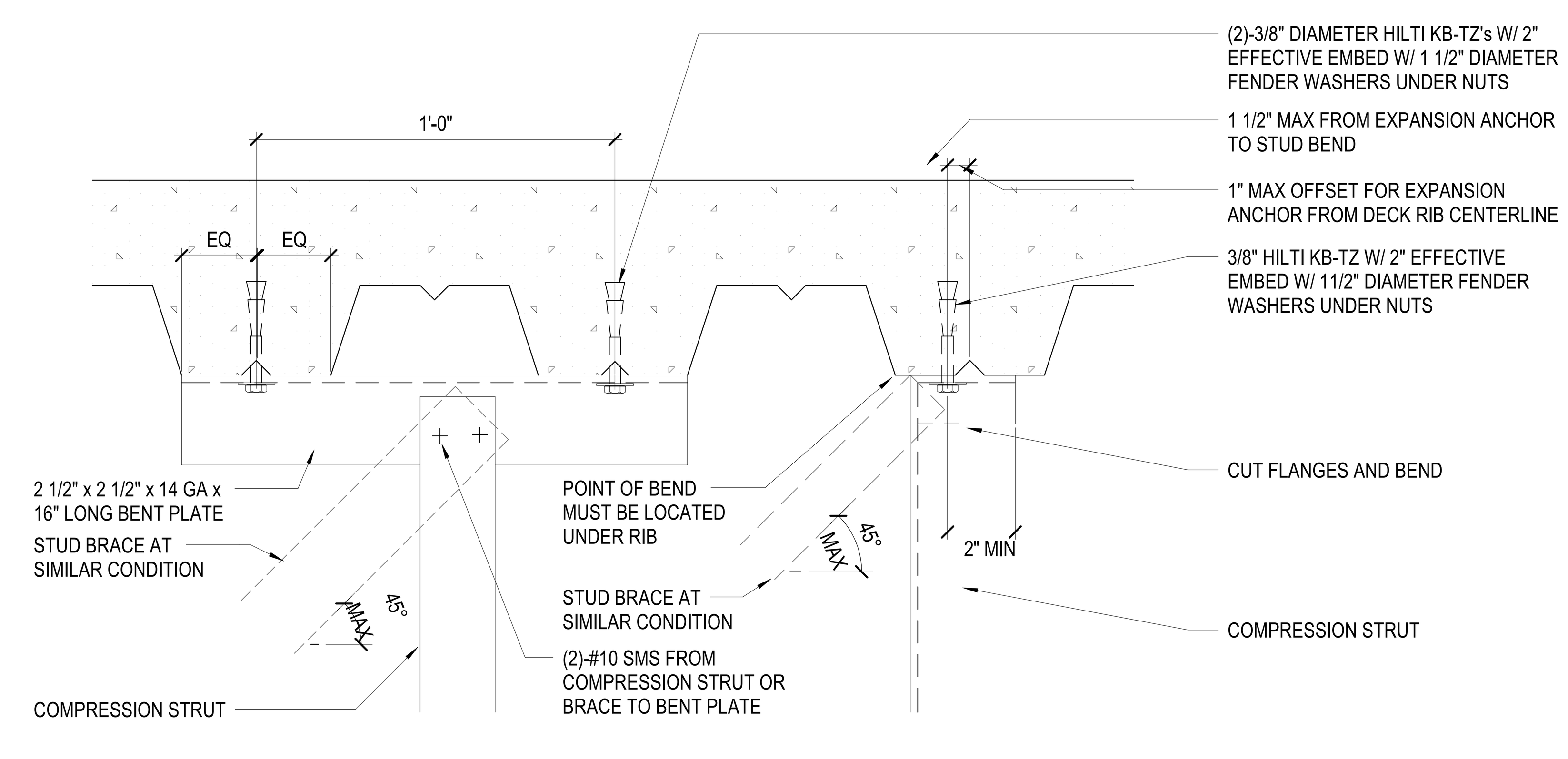
11 (E) ISOMETRIC OF ANGLE ASSEMBLY AT EXP JT
3" = 1'-0"



15 CURTAIN / IV TRACK AT SUSPENDED CEILING
3" = 1'-0"



16 (E) COMPRESSION STRUT CONNECTION TO GRID
3" = 1'-0"



17 (E) COMPRESSIVE STRUT & STUD BRACE TOP CONNECTION

METAL SUSPENSION SYSTEMS NOTES

1. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND E580 SECTION 5.1:
   A. THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
   B. SUSPENSION WIRES SHALL BE #12 GAGE (0.106" DIAMETER). SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0" X 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.
   C. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, INTERSECTION CONNECTORS SHALL BE DESIGN TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS IN COMPRESSION & TENSION IN ACCORDANCE WITH ASTM E580 SECTION 5.1.2.
2. SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH ASTM C636 AND E580 SECTION 5.2:
   A. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS. FOR THE PERIMETER OF THE CEILING AREA, PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
   B. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS IN ACCORDANCE WITH ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST ¾" INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF ¾ INCH CLEAR OF WALL.
   C. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2 INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION.
   D. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A # 16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO RUNNER MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 8 INCHES OR LESS, THIS INTERLOCK IS NOT REQUIRED.
3. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:
   A. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
   B. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ FT.
   C. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE 1 INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.
4. LATERAL FORCE BRACING: LATERAL FORCE BRACING IS REQUIRED PER THIS SECTION FOR ALL CEILING AREAS. EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT IN ACCORDANCE WITH ASTM E580 ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
   A. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
   B. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH DETAIL 1 / A672 FROM EACH WALL AND AT THE EDGES OF ANY CHANGE OF ELEVATION OF THE CEILING.
   C. THE SLOPE OF BRACING WIRES MAY BE FROM 0 TO 45 DEGREES BUY MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT.
   D. COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.
5. ATTACHMENT OF HANGER AND BRACING WIRES:
   A. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGERWIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.
   B. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2" INCHES.
   C. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
   D. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC.
   E. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
   F. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER SLOPING WIRES.
   G. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES
6. CEILING FIXTURES, TERMINALS, AND DEVICES:
   A. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.
   B. ATTACH ALL LIGHT FIXTURES, CEILING MOUNTED AIR TERMINALS AND ALL OTHER DEVICES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE. SCREWS OR APPROVED FASTENERS ARE REQUIRED MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.
   C. RECESSED OR DROP-IN LIGHT FIXTURE, GRILLS, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES, LESS THAN 56 LBS, SHALL BE SUPPORTED DIRECTLY ON RUNNERS CLASSIFIED AS HEAVY DUTY, BUT THEY MUST ALSO HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
   D. ALL FLUSH OR RECESSED LIGHT FIXTURES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING 56 LBS OR MORE SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, SHALL BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
   E. ALL 4 FT. X 4 FT. LIGHT FIXTURES SHALL HAVE SLACK SAFETY WIRES AT EACH CORNER.
   F. SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAGE. ROTATIONAL SPRING CATCHES DO NO COMPLY. A #12 GAGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FT. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.
   G. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH THE HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY IN ACCORDANCE WITH NOTE 4A IS REQUIRED IF THE PENDANT HANGER PENETRATES THE FIELD OF THE CEILING TILE. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCE. IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING (E.G., AIR CRAFT CABLE TO WALLS) THEN THE BRACING ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.
   H. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID AS SPECIFIED ABOVE. IN ADDITION, DEVICES MORE THAN 10 LBS SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LBS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER NOTE 6C.

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9557580
SESP 1P752 - 1P758
X-RAY REPLACEMENT

HCAI #: S231373-34-00
HCAI FACILITY ID #:10619
HCAI STAMP

NO	DESCRIPTION	DATE
1	HCAI BACKCHECK RESPONSE 1	11/8/2023
3	ACD 01	5/23/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1500-148-00

CEILING DETAILS

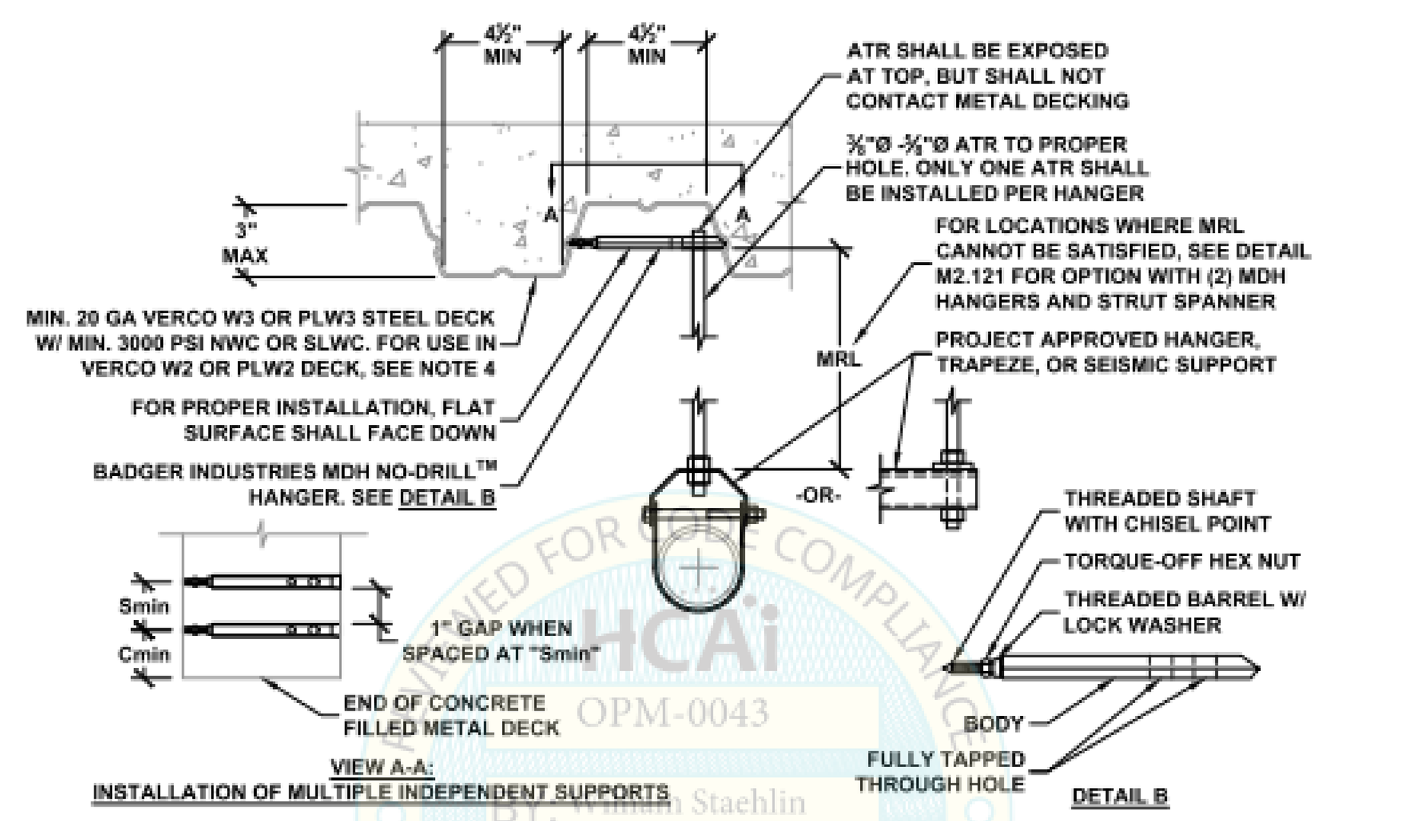
DATE: 08.28.2023

CONSTRUCTION DOCUMENTS

A672

CONSTRUCTION DOCUMENTS

HANGER ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (1) BADGER INDUSTRIES MDH NO-DRILL™ HANGER



GRAVITY ONLY		GRAVITY & SEISMIC						
HANGER CONNECTION TYPE	ALLOWABLE VERTICAL LOAD LBS	HANGER CONNECTION TYPE	ALLOWABLE VERTICAL LOAD LBS	ATR HANGER DIA. INCH	MIN ROD LENGTH MRL INCH	MDH SIZE	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH
38A TO 38C	200	38A TO 38E	400	3/8	8	MDH3812	2	6
50A TO 50C	200	50A TO 50E	400	1/2	18			
50A TO 50D	300	50A TO 50G	600	1/2	8	MDH1258	3	6
63A TO 63D	300	63A TO 63G	600	5/8	18			

[1] SEE DETAIL M0.00 FOR SECTION NOTES
[2] WHEN USED FOR "GRAVITY & SEISMIC" LOADING, THE GRAVITY DEMAND SHALL NOT EXCEED THE "GRAVITY ONLY" ALLOWABLE LOAD.
[3] PROXIMITY OR SPACING OF NEW OR EXISTING CONCRETE INSERTS OR DRILLED HOLE ANCHORS TO THE MDH DOES NOT IMPACT THE LISTED MDH CAPACITIES.
[4] ONLY THE MDH3812 MAY BE USED IN VERCO W2 OR PLW2 DECK AND SHALL BE USED FOR GRAVITY ONLY LOADS.
[5] INSTALLATION: CLEAN METAL DECKING GROOVES TO EXPOSE PLATED DECKING METAL PRIOR TO PLACEMENT OF THE MDH HANGER. ACCURATELY PLACE MDH HANGER CHISEL POINT ENDS INTO METAL DECKING GROOVES WITH FLAT SURFACE FACING DOWNWARDS AND WITH THE LENGTH OF THE MDH BODY BEING PERPENDICULAR TO THE DECKING GROOVES. WHILE HOLDING THE BODY CHISEL POINT END TIGHT INTO METAL DECKING GROOVE, TIGHTEN TORQUE-OFF HEX NUT UNTIL BOTH CHISEL POINT ENDS ARE TIGHT AND SECURELY WEDGED INTO THE OPPOSING METAL DECKING GROOVES. WHILE HOLDING THE MDH HANGER BODY IN PLACE, TIGHTEN THE TORQUE-OFF HEX NUT WITH AN OPEN END WRENCH UNTIL THE HEX NUT HAS BROKEN AWAY FROM THE THREADED BARREL, LEAVING THE LOCK WASHER COMPRESSED AND THE HEX NUT LOOSE ON THE THREADED SHAFT. FOR REFERENCE, A MINIMUM OF 15 FT-LBS OF TORQUE IS REQUIRED FOR THE MDH3812 AND A MINIMUM OF 20 FT-LBS OF TORQUE IS REQUIRED FOR THE MDH1258.

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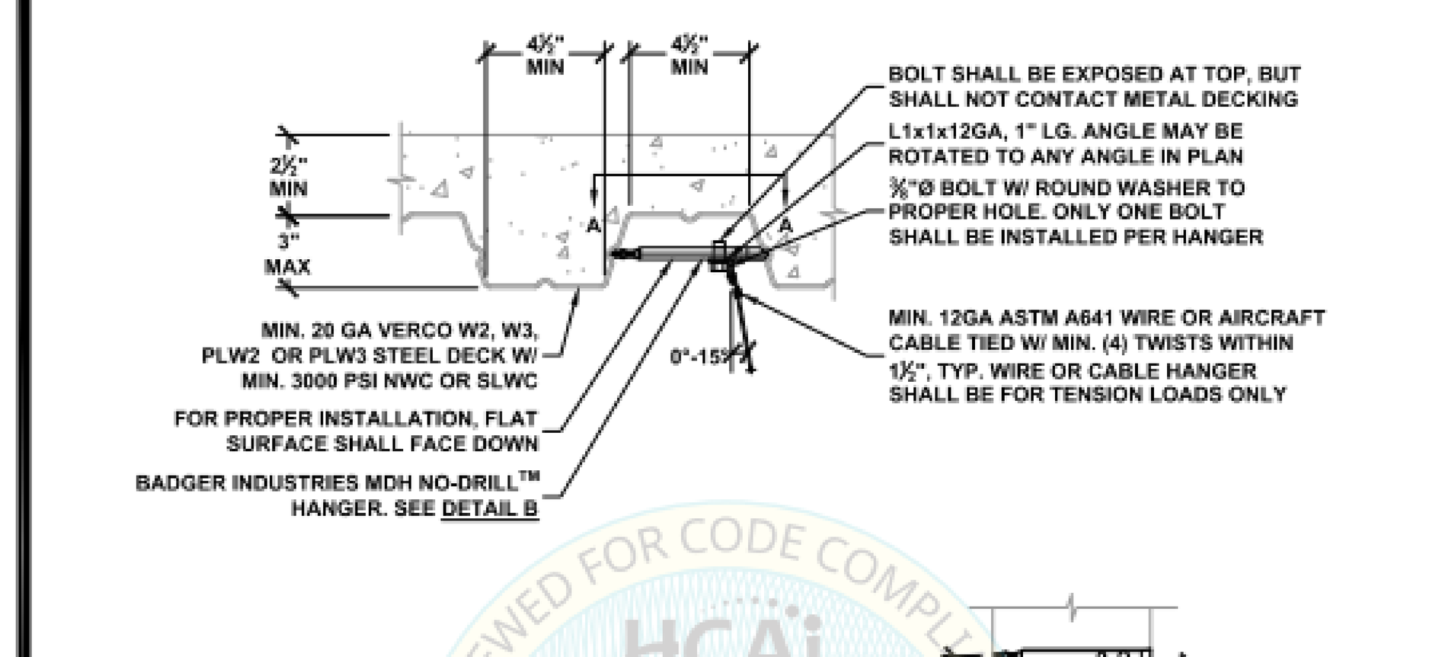
HANGER ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (1) BADGER INDUSTRIES MDH NO-DRILL™ HANGER



GRAVITY ONLY				
HANGER CONNECTION TYPE	ALLOWABLE VERTICAL LOAD LBS	MDH SIZE	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH
38A TO 38C	180	MDH3812	2	6

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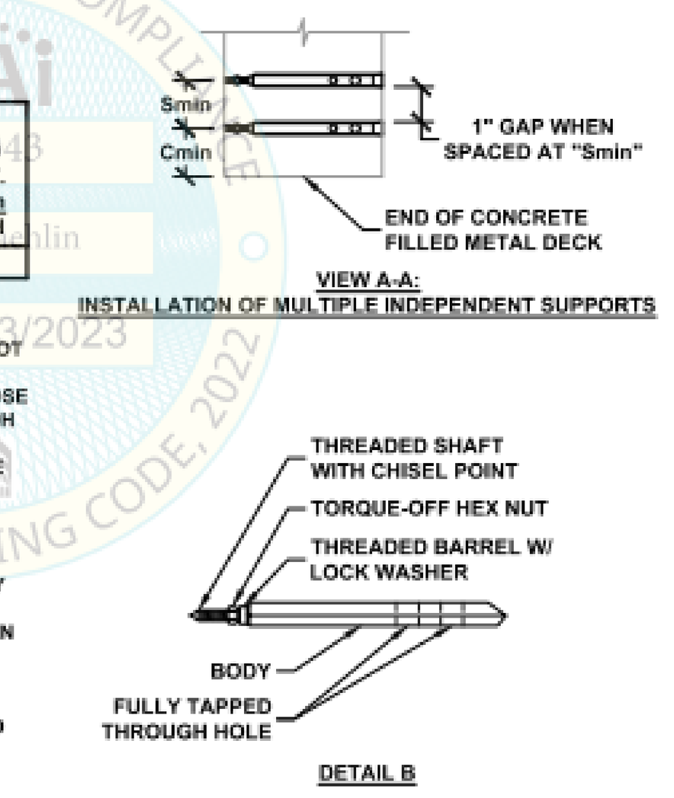
[3] INSTALLATION: CLEAN METAL DECKING GROOVES TO EXPOSE PLATED DECKING METAL PRIOR TO PLACEMENT OF THE MDH HANGER. ACCURATELY PLACE MDH HANGER CHISEL POINT ENDS INTO METAL DECKING GROOVES WITH FLAT SURFACE FACING DOWNWARDS AND WITH THE LENGTH OF THE MDH BODY BEING PERPENDICULAR TO THE DECKING GROOVES. WHILE HOLDING THE BODY CHISEL POINT END TIGHT INTO METAL DECKING GROOVE, TIGHTEN TORQUE-OFF HEX NUT UNTIL BOTH CHISEL POINT ENDS ARE TIGHT AND SECURELY WEDGED INTO THE OPPOSING METAL DECKING GROOVES. WHILE HOLDING THE MDH HANGER BODY IN PLACE, TIGHTEN THE TORQUE-OFF HEX NUT WITH AN OPEN END WRENCH UNTIL THE HEX NUT HAS BROKEN AWAY FROM THE THREADED BARREL, LEAVING THE LOCK WASHER COMPRESSED AND THE HEX NUT LOOSE ON THE THREADED SHAFT. FOR REFERENCE, A MINIMUM OF 15 FT-LBS OF TORQUE IS REQUIRED FOR THE MDH3812.



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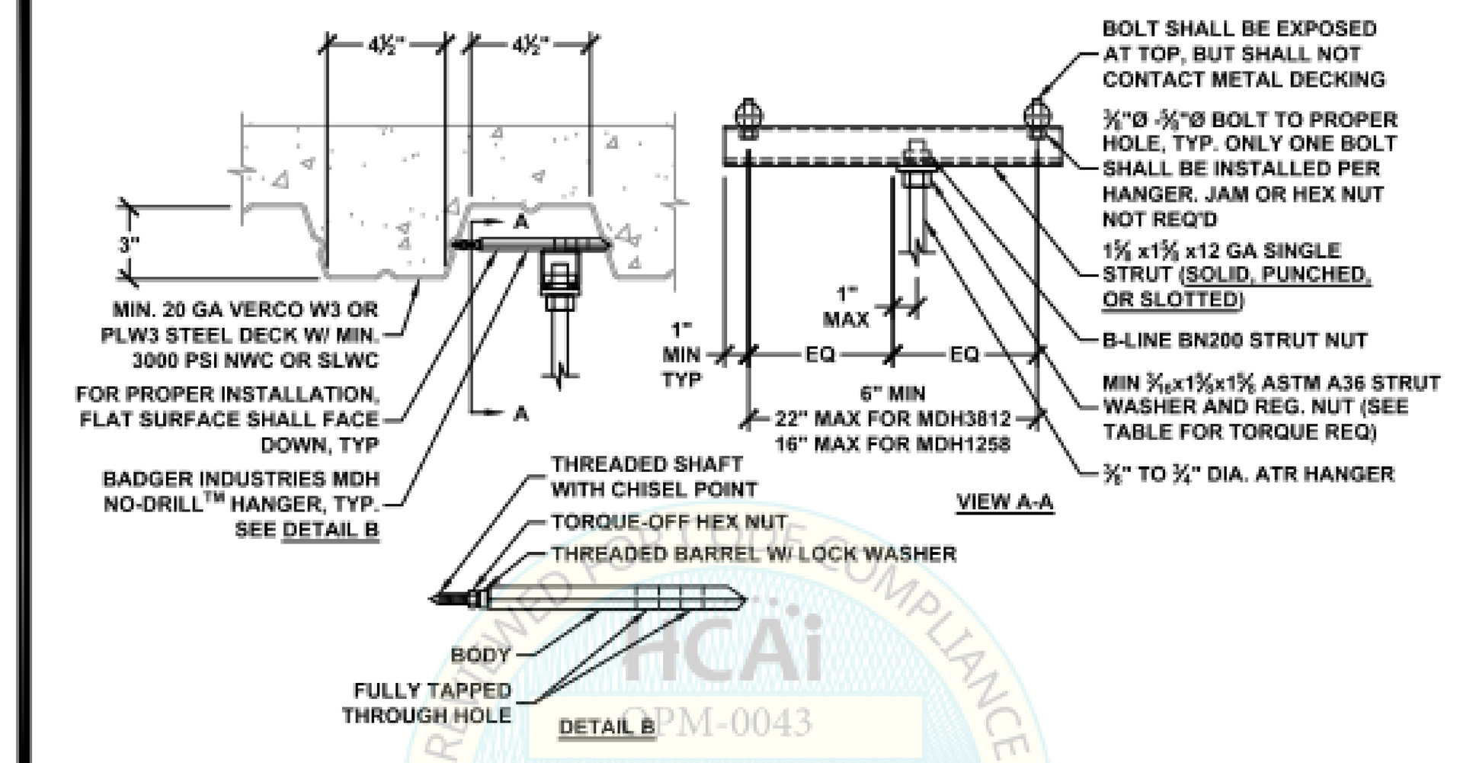
HANGER ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (2) BADGER INDUSTRIES MDH NO-DRILL™ HANGERS



GRAVITY ONLY		GRAVITY & SEISMIC					
HANGER CONNECTION TYPE	ALLOWABLE VERTICAL LOAD LBS	HANGER CONNECTION TYPE	ALLOWABLE VERTICAL LOAD LBS	ATR HANGER DIA. INCH	MDH SIZE	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH
38A TO 38D	300	38A TO 38G	600	3/8	MDH3812	2	6
50A TO 50D	300	50A TO 50G	600	1/2			
63A TO 63D	300	63A TO 63G	600	5/8			
38A TO 38F	450	38A TO 38H	900	3/8	MDH1258	3	6
50A TO 50F	450	50A TO 50H	900	1/2			
63A TO 63F	450	63A TO 63H	900	5/8			
75A TO 75F	450	75A TO 75H	900	3/4			

FASTENER WITH STRUT NUT	
DIA. INCH	TORQUE REQ'D FT-LBS
3/8	19
1/2 - 3/4	50

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[3] PROXIMITY OR SPACING OF NEW OR EXISTING CONCRETE INSERTS OR DRILLED HOLE ANCHORS TO THE MDH DOES NOT IMPACT THE LISTED MDH CAPACITIES.
[4] INSTALLATION: CLEAN METAL DECKING GROOVES TO EXPOSE PLATED DECKING METAL PRIOR TO PLACEMENT OF THE MDH HANGER. ACCURATELY PLACE MDH HANGER CHISEL POINT ENDS INTO METAL DECKING GROOVES WITH FLAT SURFACE FACING DOWNWARDS AND WITH THE LENGTH OF THE MDH BODY BEING PERPENDICULAR TO THE DECKING GROOVES. WHILE HOLDING THE BODY CHISEL POINT END TIGHT INTO METAL DECKING GROOVE, TIGHTEN TORQUE-OFF HEX NUT UNTIL BOTH CHISEL POINT ENDS ARE TIGHT AND SECURELY WEDGED INTO THE OPPOSING METAL DECKING GROOVES. WHILE HOLDING THE MDH HANGER BODY IN PLACE, TIGHTEN THE TORQUE-OFF HEX NUT WITH AN OPEN END WRENCH UNTIL THE HEX NUT HAS BROKEN AWAY FROM THE THREADED BARREL, LEAVING THE LOCK WASHER COMPRESSED AND THE HEX NUT LOOSE ON THE THREADED SHAFT. FOR REFERENCE, A MINIMUM OF 15 FT-LBS OF TORQUE IS REQUIRED FOR THE MDH3812 AND A MINIMUM OF 20 FT-LBS OF TORQUE IS REQUIRED FOR THE MDH1258.

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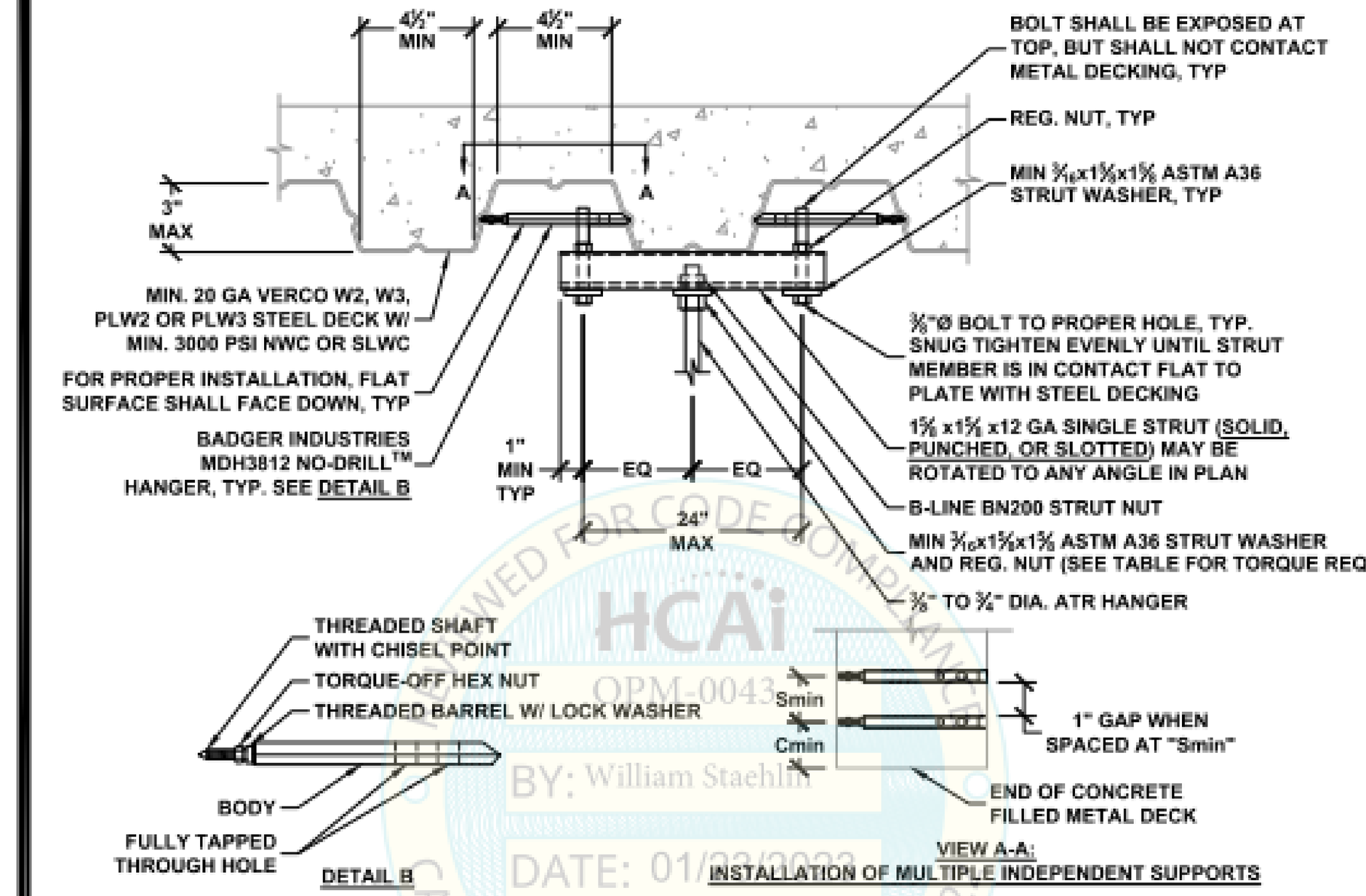
HANGER ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (2) BADGER INDUSTRIES MDH NO-DRILL™ HANGERS



GRAVITY ONLY		GRAVITY & SEISMIC					
HANGER CONNECTION TYPE	ALLOWABLE VERTICAL LOAD LBS	HANGER CONNECTION TYPE	ALLOWABLE VERTICAL LOAD LBS	ATR HANGER DIA. INCH	MDH SIZE	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH
38A TO 38E	400	38A TO 38G	690	3/8	MDH3812	2	6
50A TO 50E	400	50A TO 50G	690	1/2			
63A TO 63E	400	63A TO 63G	690	5/8			

FASTENER WITH STRUT NUT	
DIA. INCH	TORQUE REQ'D FT-LBS
3/8	19
1/2 - 3/4	50

[1] SEE DETAIL M0.00 FOR SECTION NOTES
[2] WHEN USED FOR "GRAVITY & SEISMIC" LOADING, THE GRAVITY DEMAND SHALL NOT EXCEED THE "GRAVITY ONLY" ALLOWABLE LOAD.
[3] PROXIMITY OR SPACING OF NEW OR EXISTING CONCRETE INSERTS OR DRILLED HOLE ANCHORS TO THE MDH DOES NOT IMPACT THE LISTED MDH CAPACITIES.
[4] INSTALLATION: CLEAN METAL DECKING GROOVES TO EXPOSE PLATED DECKING METAL PRIOR TO PLACEMENT OF THE MDH HANGER. ACCURATELY PLACE MDH HANGER CHISEL POINT ENDS INTO METAL DECKING GROOVES WITH FLAT SURFACE FACING DOWNWARDS AND WITH THE LENGTH OF THE MDH BODY BEING PERPENDICULAR TO THE DECKING GROOVES. WHILE HOLDING THE BODY CHISEL POINT END TIGHT INTO METAL DECKING GROOVE, TIGHTEN TORQUE-OFF HEX NUT UNTIL BOTH CHISEL POINT ENDS ARE TIGHT AND SECURELY WEDGED INTO THE OPPOSING METAL DECKING GROOVES. WHILE HOLDING THE MDH HANGER BODY IN PLACE, TIGHTEN THE TORQUE-OFF HEX NUT WITH AN OPEN END WRENCH UNTIL THE HEX NUT HAS BROKEN AWAY FROM THE THREADED BARREL, LEAVING THE LOCK WASHER COMPRESSED AND THE HEX NUT LOOSE ON THE THREADED SHAFT. FOR REFERENCE, A MINIMUM OF 15 FT-LBS OF TORQUE IS REQUIRED FOR THE MDH3812.

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9557580
SESP 1P752 - 1P758
X-RAY REPLACEMENT

HCAI #: S231373-34-00
HCAI FACILITY ID #:10619
HCAI STAMP

LICENSED ARCHITECT
GREG R. OSECHECK
C-33192
July 31, 2025
RENEWAL DATE
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE
3	ACD 01	5/23/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1500-148-00

MASON WEST
OPM-0043

HCAI STAMP

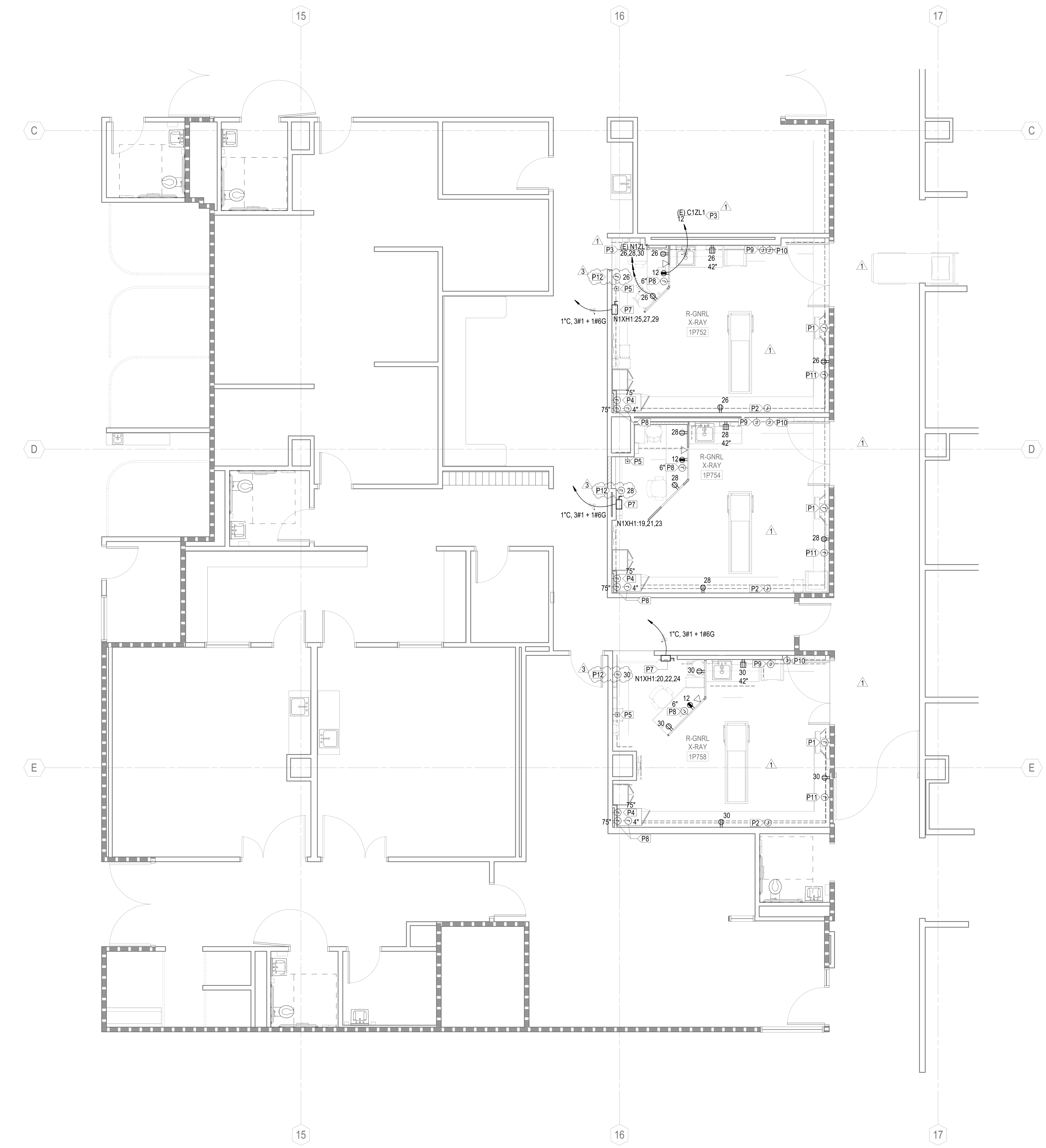
DATE: 08.28.2023

CONSTRUCTION DOCUMENTS

3 A673

CONSTRUCTION DOCUMENTS

Author 5/23/2024 1:15:18 PM C:\Users\smellissap\Documents\Revit Local Files\A23-UCDH Gen Rad Equip Replacement-150014800_smellissap.rvt



1 POWER PLAN - LEVEL 01
1/4" = 1'-0"

GENERAL NOTES

A. COORDINATE LOCATION AND MOUNTING OF DEVICES WITH MILLWORK AND CASEWORK.

B. ELECTRICAL & SYSTEMS DEVICES & EQUIPMENT SHOWN AS SCREENED ARE EXISTING TO REMAIN. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING LOCATIONS OF EXISTING SYSTEMS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WHICH MAY AFFECT ANY WORK UNDER THIS CONTRACT.

C. REFER TO THE ARCHITECTURAL DETAILS AND ELEVATION DRAWINGS FOR COORDINATION OF ELECTRICAL DEVICES.

D. DEVICES AND EQUIPMENT SHALL BE CIRCUITED FROM PANELS AS INDICATED.

E. CONDUIT AND WIRING MAY NOT BE SHOWN GRAPHICALLY ON THE PLANS. HOWEVER IT SHALL BE PROVIDED COMPLETE AS REQUIRED BASED ON IDENTIFICATION OF CIRCUIT NUMBERS, RELAY NUMBERS, SWITCHING IDENTIFICATION, MOTOR EQUIPMENT SCHEDULE, PANEL BOUNDARIES, SPECIFIED MINIMUM CONDUIT SIZE, SPECIFIED MINIMUM CONDUCTOR SIZES, AND/OR SPECIFIED MINIMUM GROUNDING.

F. REFER TO ONE-LINE DIAGRAMS FOR ADDITIONAL INFORMATION FOR FEEDERS AND ELECTRICAL EQUIPMENT.

G. REFER TO VENDOR DRAWINGS FOR ADDITIONAL INFORMATION.

H. REFER TO VENDOR DRAWINGS ON E600 SERIES FOR ADDITIONAL INFORMATION.

KEYNOTES

#	DESCRIPTION
P1	PROVIDE JUNCTION BOX FOR WALL BUCKY. COORDINATE EXACT LOCATION WITH VENDOR PRIOR TO ROUGH-IN.
P2	PROVIDE FLUSH-MOUNTED CEILING BOX CONNECTION FOR CSM3. COORDINATE EXACT LOCATION WITH VENDOR PRIOR TO ROUGH-IN.
P3	REUSE EXISTING CIRCUIT(S) FREED BY DEMOLITION WORK. NO ADDITIONAL EXISTING LOADS TO ACCOUNT FOR BASED OFF OF RECORD DOCUMENTS.
P4	PROVIDE JUNCTION BOX FOR GENERATOR CABINET. COORDINATE EXACT LOCATION WITH VENDOR PRIOR TO ROUGH-IN.
P5	PROVIDE SHUNT TRIP FOR REMOTE CONTROL OF IN-ROOM CIRCUIT BREAKER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
P7	IN-ROOM 480V, 3P 50A CIRCUIT BREAKER WITH SHUNT TRIP, INTERCEPT AND EXTEND EXISTING CIRCUIT BREAKER CONNECTION FOR A COMPLETE INSTALLATION. RUN POWER FROM BREAKER TO GENERATOR CABINET, LEAVING AN 8' TAIL. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
P8	PROVIDE JUNCTION BOX FOR WALL RACEWAY. COORDINATE EXACT LOCATION WITH VENDOR PRIOR TO ROUGH-IN.
P9	PROVIDE JUNCTION BOX FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH VENDOR PRIOR TO ROUGH-IN.
P10	PROVIDE POWER CONNECTION FOR DOOR SWITCH. COORDINATE EXACT LOCATION WITH VENDOR PRIOR TO ROUGH-IN.
P11	NEW MED GAS OUTLET LOCATION. INTERCEPT AND EXTEND EXISTING CONNECTION TO MEDICAL GAS ALARM PANEL AS NEEDED FOR A COMPLETE INSTALLATION. COORDINATE WITH ARCHITECT PRIOR TO ROUGH-IN.
P12	JUNCTION BOX FOR TEMPORARY POWER. REMOVE AFTER CONSTRUCTION HAS BEEN COMPLETED.

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M055565
SESP 1P752, 1P754 & 1P758 ED X-RAY REPLACEMENT

HCAI #: S23____-34-00
HCAI FACILITY ID #: 10619
HCAI STAMP

LICENSED PROFESSIONAL ENGINEER
CONNOR WRIGHT FRAZIER
E 23898
ELECTRICAL
STATE OF CALIFORNIA

NO	DESCRIPTION	DATE
1	HCAI BACKCHECK RESPONSE 1	11/8/2023
3	ACD 01	5/23/2024

ISSUANCE HISTORY - THIS SHEET

HGA NO: 1500-148-00

POWER PLAN - LEVEL 01

HCAI STAMP

DATE: 08.28.2023

CONSTRUCTION DOCUMENTS

E301

CONSTRUCTION DOCUMENTS