

ADDENDUM #2

Will County Health Department
BID PACKAGE #2 – Misc. Steel/Structural/Enclosure
November 5, 2018

This addendum will be included in all future sets of drawings distributed and on the Leopardo Building Connected website.

Division 1 – General Instructions

1.0 Bid Instructions

A. Bid Submission

1. **There will be NO bid due date extension for this addendum. Final bids are due no later than 1:00PM on Tuesday, November 13, 2018.**

1.1 Bid Documents

A. Schedule of Bid Documents

The following documents are included as part of this bid addendum:

DATE	DESCRIPTION	By
11/05/18	Addendum Narrative (this document) - <u>FOLLOWS</u> – 2 Pages	Leopardo Companies
11/05/18	Bid RFI Log Dated 11/05/18–4 Pages	Leopardo Companies
11/05/18	Revised Work Scopes – (<u>As Listed Below</u>) – 21 Pages	Leopardo Companies
11/05/18	Revised Bid Proposal Forms – (<u>As Listed Below</u>) – 46 Pages	Leopardo Companies
11/02/18	Revisions Narrative and Drawing Index – 3 Pages	Kluber
11/02/18	Specification Sections Revisions 10/31/18 (<u>As Listed Below</u>) – 1 Page	Kluber
11/02/18	Drawing Revisions (<u>As Listed Below</u>) – 12 Pages	Kluber

2.0 General Information

A. Revised Work Scopes (Revisions noted in Red)

- See attached Revised Work Scopes dated 11/05/2018
 - 2-02 Masonry Work Scope
 - 2-03 Building Concrete Work Scope
 - 2-04 Metal Panel Work Scope
 - 2-05 Roofing Work Scope
 - 2-06 Structural Steel Work Scope
 - 2-07 Miscellaneous Metals Work Scope
 - 2-09 Spray Insulation Work Scope
 - 2-10 Elevator Work Scope

B. Revised Bid Proposal Forms (Revisions noted in Red)

- See attached Revised Bid Forms dated 11/05/2018
 - 2-02 Masonry Bid Form
 - 2-03 Building Concrete Bid Form

- 2-05 Membrane Roofing Bid Form
- 2-06 Structural Steel Bid Form
- 2-07 Miscellaneous Metals Bid Form
- 2-09 Spray Insulation Bid Form
- 2-10 Elevator Bid Form
- 2-11 Sectional and Coiling Doors Bid Form
- 2-12 Spray Fireproofing Bid Form

C. Revised Specification Sections – Dated 2018.11.02

- 075300.02 Elastomeric Membrane Roofing

D. Revised Drawings Sheets – Dated 2018.11.02

- A330
- A602
- A701
- A1000
- A1001
- S322
- S400
- S401
- S500
- S510
- S600
- S601

END OF ADDENDUM #2



RFI LOG
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				R =	Resolved
				P =	Pending Response
				I =	Incomplete
RFI #	ADDENDUM #	Question	Response	Status	
BP2-001	Addendum #1	S311 states for top of footing elevations is to be at 96'-6" This is a 1' thick footing minimal which would put the bottom of footing an extra 1'-0" below what is required at 42". The note should read top of footing 2'-6" because our bottom of footing by code and their notes only needs to be 96'-6". The location for his coverage comment can be found pm S011 Note F9.	The note on S011 is in absent of other information. Other factors that drive this elevation are as follows: 1. The exterior grades typically are not flush with the interior slab on grade elevation. Variations occur and we do not run with the bare bones to avoid any frost coverage issues. This is our office standard and we will maintain as we are the EOR for the project. 2. We also have moment frames which have anchor rods that require correct embedment which is measure from the top of piers which are typically 8" below the finished floor. We maintain the embedment length of the bolts within the pier height so the bolts are not set in the footing.	R	
BP2-002	Addendum #1	What is note 5.531 on S600 depicting?	Will be addressed by addendum	R	
BP2-003	Addendum #1	On G301 there is a table with 0 hour rating for floors and roofs. Next to the 0 hour note it identifies Stairs and shafts, elevator equipment room, and boiler room with 1 hour rating. It appears the fireproofing will be limited to all shafts, and stairs plus a couple mechanical rooms. With a note on the structural drawing that states all roof decks that require fireproofing will be galvanized. Will the roof decking at the top of the stairs and shafts require fireproofing?	No. Roof decking does not require a rating.	R	
BP2-004	Addendum #1	Are Vehicle Restraints required with the Scissor Lift equipment? These are stated in specification section 111319.02.	No. Paragraph 1.01 B will be removed by Addendum.	R	
BP2-005	Addendum #1	Specification Reference 075300.02: Solar reflectance requirement of Elastomeric Membrane Roofing System is unattainable with a black membrane. Please advise.	Paragraph 2.02B1 will be eliminated by Addendum. SRI is not applicable with a black EPDM membrane.	R	

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BP2-006	Addendum #1	Membrane Roofing Scope of Work 4.e. states "All metal flashings and roof related sheet metal shall be prefinished per specs under this contract. Type and color of finish shall be as specified." What Flat Stock is the Metal Panel Subcontractor providing?	The Metal Panel Subcontractor is providing Flat stock for copings, metal fascia, soffits, gravel stops, downspouts, scuppers, conductor heads, and overflows to the Roofing subcontractor to furnish and install. All other metal flashings and roof related sheet metal for a complete roofing system must be provided by the Roofing Subcontractor.	R
BP2-007	Addendum #2	Please advise on the following Membrane Roofing questions: 1.) Is the vapor barrier being installed over the metal deck areas or just the concrete deck area. 2.) Is the insulation to be fastened into the vapor barrier or installed in adhesive so there is no penetration into the vapor barrier. 3.) It also states to run vapor barrier up parapet walls and underneath wood blocking, we cannot adhered directly to the vapor barrier so should we turn vapor barrier up a few inches to seal.	1) Metal and concrete areas. 2) Insulation shall be glued at the concrete roof deck areas and can be screwed at the metal deck areas through the vapor barrier. 3) Spec Section 07 53 00.02 Paragraph 3.03A will be revised by Addendum #2 to clarify this issue.	R
BP2-008	Addendum #2	Do all anchor bolts receive galvanizing? (Sheet S321, note 2.g in Column Schedule).	Yes	R
BP2-009	Addendum #2	The screenwall girts have cap channels of different depths (12" and 15"). Please verify this is correct.	Yes	R
BP2-010	Addendum #2	Please verify roof height of canopy. Roof plan sheet A330 lists height at 129'-8" while the architectural drawing shows canopy height at 116'-2".	Will be addressed by addendum #2.	R
BP2-011	Addendum #2	Please confirm/provide clarification for note 5.526, L3x3x1/4" galvanized angle and 3/A100... Please confirm what is needed at the loading dock/who is providing it.	It is a galvanized angle as indicated on Structural Sheet S312S per Keynote 5.526. The angle is at the full interior perimeter of the pit and on one edge where the depressed pit lift ramp is located. Also refer to Sheet 3/A100 for additional section cut detail. No addendum is needed for this item. Miscellaneous Metals Subcontractor to provide and install.	R
BP2-012	Addendum #2	Please confirm all CMU clips per 4/S611 and similar are by the misc. metals contractor.	CMU clips are provided by the masonry subcontractor	R

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BP2-013	Addendum #2	What is the thickness of the ribbed metal pan from top of rib to bottom of rib on the 2nd floor pan deck for Slab S3?	See metal deck schedule on Sheet S322.	R
BP2-014	Addendum #2	Does this project have any DBE, WBE etc, requirements?	No it does not	R
BP2-015	Addendum #2	sections 7/8/S501 – please confirm we are to include the HSS/channel/angles shown in these sections.	The HSS/Channel/Angles in these section details to be provided and installed by Miscellaneous Metal Subcontractor	R
BP2-016	Addendum #2	Confirm ALL work related prefab/light gauge canopies per sheet A1205 and similar is by others.	All non-structural canopies to be by the Miscellaneous Metals subcontractor.	R
BP2-017	Addendum #2	Confirm that no lintels are to be part of the Structural Steel Scope.	No loose lintels are to be by the Structural Steel Subcontractor.	R
BP2-018		What miscellaneous metals will be required for millwork support? Please provide a drawing of these needed supports.		P
BP2-019		DRAWING 6/S 500 SHOWS WEB OPENINGS DETAIL .LOCATIONS NOT SHOWN ON S-DRAWINGS .PLEASE PROVIDE		P
BP2-020		The specification's state to fasten all layers of insulation, including the cover board at the metal roof areas. Is this the desired application? The cover board should be installed in approved adhesive to eliminate the insulation fasteners coming in contact with the bottom of the EPDM membrane. This is the primary reason for using a cover board.		P

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BP2-021		07 53 00 3.03 C references a LiveRoof system. I do not see this on the plans. Is there a LiveRoof system on this project?		P
BP2-022		The details for the canopy on page A1205 show a coverboard and membrane on the metal deck with tapered at the drains only. The roof plan shows this deck as flat(129'-8" at column Line A) Notes on the roof plan state 1/8" slope. Is this a fully tapered roof area or slope in the deck?		P
BP2-023		Will there be any posts required in low height gypsum wall as indicated in the Miscellaneous Metal scope?		P
BP2-024		Specification Reference 072500 requires an air barrier material to be installed at 40 dry mils. The majority of the specified products are "low mil" products and are installed at 10 dry mils. Can the WR Meadows LMP "black" fluid applied vapor permeable air barrier membrane be utilized which is installed at 40 dry mils and can be exposed to UV rays for 6 months per the specification requirements.		P
BP2-025		Multiple sections on S501/S510 – please confirm who is supposed to include the nuts and rods? Please confirm who is to furnish and/or install the nuts and rods.		P

SECTION 00220.202 MASONRY

The Scope of Work includes all labor, material, tools, equipment, scaffolding, hoisting, supervision and engineering as required to complete the **Masonry** Scope of Work in accordance with the Contract Documents and enumerated below:

Subcontractor understands the Contract Documents are scope documents that indicate the general scope of the project which may not indicate or describe all the work required for the full performance and completion of their work. Subcontractor includes all items reasonably inferable to complete their scope of work whether or not indicated on the Contract Documents.

MASONRY - TRADE SPECIFIC

1. See "General Work Scope" for General Requirement, applicable to all bid packages.
2. **GENERAL ITEMS:**
 - a. Provide sufficient crew size and sufficient quantity of equipment, tools, and materials to conform to Leopardo project schedule. A full-time manager/supervisor and full-time competent safety supervisor shall be present during all work. Start date and sequence of the work to be at the direction of the Leopardo superintendent.
 - b. Subcontractor shall submit for approval his proposed scheme for the hoisting of all equipment, including any required shop drawings, sketches and/or load distribution diagrams and calculations verifying adequacy of supporting systems so as to allow erection activities to be coordinated and approved with other Subcontractor's field operations and structural engineer.
 - c. Properly protect all materials stored on-site. CM will not be responsible for damage to stored materials.
 - d. Subcontractor includes using the appropriate admixtures for hot and cold weather work. Includes heating material. It is this Subcontractor's responsibility to review the project schedule and logistics/phasing plan to include all costs as applicable to complete the work at the designated time.
 - e. Traffic Control related to your work.
 - f. Provide Dump Boxes for all work associated with all masonry work.
 - g. Full time laborer or foreman must be on site and an OSHA competent person (can be working) for project cleanup. Any area not cleaned up to LCI's Superintendent satisfaction at the end of each day will result in LCI performing clean-up and charged to masonry subcontractor.
 - h. Provide separate mobilizations for site, interior and exterior related work.
 - i. There will be roughly a 6' site cut between the existing Health Department and the north side of the proposed building footprint for the new Health Department. All subcontractors are to understand that site access will be limited on the north elevation of the new building footprint and shall coordinate all construction activities accordingly.
3. **MOCK-UPS/TESTING**
 - a. Assist Owner's testing agent by providing access to the work, restoring tested areas, and providing samples as needed.
 - b. On-site field mock-up of a completed portion of permanent wall construction and function and small-scale mock-up per the specifications.
4. **MASONRY/VENEER/CAST STONE/CONCRETE MASONRY UNITS**
 - a. Furnish all labor, material, equipment and hoisting necessary for a complete installation of masonry, brick and stone work as defined by the documents to include but not limited to the following:
 - ii. Special shaped masonry bricks
 - iii. Mortar and grout including special mixes as specified
 - iv. Accessories including steel reinforcement bars, flashing, ties, anchors, weeps, etc.
 - v. Bond Beams/Top of Wall Filler

- vi. Cold Weather Admixtures
- vii. Repairing, pointing and cleaning of masonry
- viii. Insulation
- b. Provide control and expansion joints as indicated. Include locations on shop drawings for approval.
- c. Solid surface sills
- d. Coordinate and leave out openings in masonry for equipment and subcontractor access, as required and directed by LCI
- e. Furnish and install all dowels used to attach masonry walls to concrete foundations. Mason contractor will be responsible to layout, drill, install, and epoxy grout (or other approved method) all dowels into concrete. Dowels will not be provided or installed by the concrete contractor.
- f. This project will use bond beams ~~above any opening in CMU walls~~ as shown. If steel is required or desired this subcontractor must provide at no additional cost to LCI or the owner.
- g. Provide all fire stopping/fire safing and fire sealant at head of walls, control joints and etc for a complete fire rated system.
- h. Provide all sound caulking at all head of walls, control joints and etc for a completely caulked CMU system for interior masonry only. (No joints shall be left open) All caulk shall be paintable.
- i. Subcontractor shall furnish and install all top of wall braces and wall bracing beams.
- j. Provide any neoprene gaskets at head of wall if shown.
- k. Thoroughly wash all masonry upon completion of all installations. Protect and maintain all finishes from damage during cleaning operations. Work shall include a complete hand rub down of walls and a complete scraping of floor. All cleaning must be approved by Site Superintendent 1 day after clean-up is considered completed by subcontractor.
- l. Must cover wall cavities during construction at the end of each day and secure.
- m. Patch brick masonry at removed skywalk structure between the existing Sunny Hill nursing home and the existing Health Department. Match existing brick. Reference note 2401 on sheet A050.
- n. Furnish and install complete masonry assembly for trash enclosure walls.

5. ACCESSORIES AND RELATED WORK

- a. Include mortar nets at the base of all wall cavities (even if not shown).
- b. Weep holes and wicks.
- c. Cast drip detail
- d. Provide and install CMU clips to metal decking as applicable per drawings.
- e. All anchors and methods of attachment including masonry ties.
- f. All vertical and horizontal wire and rebar reinforcing and associated grouting of reinforcement in walls (or other type as specified).
- ~~g. Building paper at steel beam as applicable at masonry walls~~
- h. Grouting of all items embedded in masonry.
- i. Receive and install the following embedded items
 - i. Anchors for interior and exterior wall mounted signage.
 - ii. Card Readers
 - iii. Galvanized angles as applicable
 - iv. Loose steel lintels furnished by the steel subcontractor.
 - v. Steel Shelf angles for supporting masonry
 - vi. Electrical Boxes (assist Electrical Subcontractor)
 - vii. Elevator hoisting beams furnished by steel subcontractor
 - viii. **HM Door Frames in Masonry Walls (assist Carpentry Subcontractor)**
 - ix. Grout base plates in masonry per structural details. Base plates will be furnished by Structural Steel Fabricator. Coordinate installation with structural steel contractor and LCI.
 - x. **Installation of top of wall supports**

6. TEMPORARY CONSTRUCTION

- a. Wall bracing
- b. Cover tops of walls during wet/rainy conditions

- c. Provide tarps, drapes, masking and other methods of protection when working around finished construction.
- d. Remove temporary protection upon completion of work.
- e. Mason to include all means and methods necessary to install exterior and interior masonry during winter conditions with building not enclosed nor heated, including, but not limited to temporary enclosures, heat, and cold, weather admixtures.
- f. All scaffolding, hoisting, and lifts necessary to complete scope of work.
- g. Safety protective devices per OSHA. limited to masonry work.

7. EXCLUSIONS

- a. Fluid Applied Air Barrier behind masonry walls (by Air Barrier Subcontractor)
- b. Exterior masonry caulk (by Caulking Subcontractor)
- c. Exterior louvers (by Mechanical Subcontractor)
- d. Foamed-in-place insulation (by Spray Insulation Subcontractor)

END OF SECTION 00220.202

SECTION 00220.203
WORK SCOPE BUILDING CONCRETE

The Scope of Work includes all labor, material, tools, equipment, scaffolding, hoisting, supervision and engineering as required to complete the **Building Concrete** Scope of Work in accordance with the Contract Documents and enumerated below:

Subcontractor understands the Contract Documents are scope documents that indicate the general scope of the project which may not indicate or describe all the work required for the full performance and completion of their work. Subcontractor includes all items reasonably inferable to complete their scope of work whether or not indicated on the Contract Documents.

TRADE SPECIFIC – BUILDING CONCRETE

1. See “General Work Scope” for General Requirement, applicable to all bid packages.

2. GENERAL

- a. Furnish and install all cast in place concrete formwork, reinforcement, footings, foundations, stem walls, stairs, floors, slab-on-grade, joint sealants, foundation/footings for stoops, piers, grade beams, elevated concrete and composite floors, and thickened slabs.
- b. Include joint sealants at all concrete floors including those scheduled to receive sealers and/or epoxy. Obtain approval/acceptance of material for these floors before proceeding.
- c. Provide bituminous material at all keyway joints to prevent water migration. Submit product for approval.
- d. Provide final elevation survey of MEP items in slab 2 days prior to pour to verify elevations of installed items are acceptable. Notify LCI if any discrepancies exist.
- e. Steel subcontractor is to provide detailed embed drawings to Construction Manager and the Concrete subcontractor within two (2) weeks of award. Steel subcontractor is to hold a coordination meeting between all parties involved with the installation of imbedded items. Prior to the start of erection, the steel subcontractor is to review the as built drawings for anchor bolts, etc. furnished to them by the concrete subcontractor and identify any discrepancies that need to be addressed.
- f. Supply minimum two (2) crews for concrete work foundation placement.
- g. Provide all minor dewatering of excavations as required to complete the concrete work. This includes excavations open prior to this subcontractor’s work, during, and after until back fill.
- h. All curing requirements will be strictly enforced for placement of all concrete per the contract documents.
- i. Contractor includes rubbing and patching of exposed concrete to fill bug holes etc. and to insure a smooth uniform finish pursuant to the specifications.
- j. Expansion, control, and isolation joints complete. Coordinate with all trades.
- k. All paper joints, bond breakers, metal ties, and key-ways.
- l. Include hand excavation and compaction when necessary.

3. LAYOUT/LOGISTICS

- a. Elevation benchmarks and project boundaries will be provided by Leopardo.
- b. Subcontractor shall be responsible for all other layout not listed above and necessary to complete the work including curbs, sidewalks, pads, etc.
- c. There will be roughly a 6’ site cut between the existing Health Department and the north side of the proposed building footprint for the new Health Department. All subcontractors are to understand that site access will be limited on the north elevation of the new building footprint and shall coordinate all construction activities accordingly.

4. SITE WORK

- a. The Site Concrete Subcontractor will have all exterior flat work including stoops, sidewalks, and aprons. The Building Concrete Subcontractor shall provide the footings and foundations for the following:
 - i. Trash Enclosure
 - ii. TB Clinic Entrance
 - iii. Canopy Entrance

5. CONCRETE SLAB ON GRADE

- a. Furnish and install Spraylock on new concrete slabs.
- b. Furnish and install all concrete floors and slabs on grades with toppings as shown.
- c. Include all thickened slabs under all masonry walls, landings, stairs, stair treads, and floor elevation transitions throughout the building (even at areas where they are not specifically shown on the drawings).
- d. Fine grade subgrade and place stone at all thickened slabs under masonry walls
- e. All stone under slabs-on-grade shall be furnished and placed by the excavator. Building Concrete Subcontractor shall include all fine grading.
- f. Clean-up transitions in subgrade at depressed slab conditions.
- g. Provide box outs for all columns. Include a separate trip(s) to fill box-outs. Provide a smooth transition with surrounding surfaces.
- h. Provide all saw cutting /soft-cutting at typical construction / control joints in the slab on grade as specified.
- i. ~~Concrete slabs that will be covered with finished flooring shall receive a hard trowel finish (or higher level of finish if specified in the contract documents). Provide concrete finish as specified.~~
- a. Include all elevator pits and sump pits.
- b. Subcontractor has included to come back to pour slab of the elevator. Grouting underneath thresholds at each elevator entrance door.
- j. Include proper additional care for areas of slab-on-grade to be final finished as polished concrete, including location of sawcuts and cold joints.
- k. Provide all concrete slopes as required per the structural drawings. See M.E.P. Item Keynotes for MEP slope locations. Final MEP slope locations to be determined subsequent to MEP Coordination. Refer to Project Schedule.
- l. Provide multiple mobilizations to complete slab on grade & elevated slab work.

6. CONCRETE – HIGH DENSITY FILE COORDINATION

- a. Place all concrete slabs and toppings according to the requirements of the High-Density File shop drawings and Manufacturer's recommendations.
- b. Provide increased floor flatness / levelness to more than what is indicated for surrounding floors and toppings if required.
- c. Receive and install all embedded anchors and accessories as needed.
- d. Rail system shall be furnished and installed by the High-Density File Subcontractor including all shimming and grouting.
- e. Furnish and place topping surrounding rails over the entire depressed slab area. Protect rails and any other High-Density file accessories from damage during concrete installation. Finish topping per High Density Files Manufacturer's Recommendations.
- f. Provide a smooth transition between concrete topping and all surrounding surfaces
- g. Clean excess concrete from rails and other installations.
- h. Include return trips to complete work in phases if needed.

7. CONCRETE – FILL OVER METAL DECKS, STAIRS, ROOFS

- a. Include all concrete fill over structural decking and pans wherever shown throughout the project.
- b. Clean metal deck prior to placement of reinforcing steel and concrete, including debris left by previous contractors, such as nelson stud ceramic insulators, welding rods, tracked-on dirt, etc.

- c. Reinforced concrete fill within metal pan stairs and landings. Perform this work during a separate mobilization to the site if required.
- d. Remove temporary lumber protection within the stair tread and landing pans prior to placement of concrete.
- e. Include the sealing of minor deck holes and infilling of pour stops that may be required to contain the concrete and to prevent seepage.
- f. Provide shores as required to support concrete until it reaches adequate strength to support itself and all loads in place and to meet specifications for floor flatness
- g. The Structural Steel Contractor shall install all steel angle for floor openings and penetrations leaving decking in place, per OSHA standards for covering openings. The removal of the decking for penetrations will be by the respective subcontractor requiring the penetration. The Subcontractor is to ensure the concrete is not poured where deck is scheduled to be removed.
- h. Provide covers over all deck openings equal to or less than four square feet pursuant to OSHA guidelines
- i. Curbs at elevated decks / step backs for brickwork.
- j. Include proper additional care for area of elevated deck slabs to be final finished ~~as polished concrete~~ **at epoxy concrete or exposed concrete** including location of sawcuts and cold joints.
- k. **Blow down of decks prior to concrete placement.**

8. CONCRETE PADS

- a. Furnish and install all concrete utility, housekeeping, and isolation pads shown on the drawings.
- b. Allowance for equipment pads included within this scope of work shall be specifically used for pads not shown on the construction documents.
- c. Coordinate all work with the equipment suppliers. Receive and install all anchor bolts, sleeves, trays, and any other embedded or encased accessories provided by the equipment supplier.

9. CONCRETE EMBEDDED AND ENCASED ITEMS

- a. Receive, unload, store, inventory, place and set all embedded items including anchor bolts as furnished by others. Subcontractor includes scheduling and coordination of embedded items with the respective subtrades furnishing the items.
- b. Setting of all anchor bolts and leveling plates including protection of same until steel is erected. Protect, clean and remove all concrete from all anchor bolts. Replace any anchor bolts which are damaged as a result of your operations.
- c. Furnish and place grout and dry-pack at all column and other structural base plates.
- d. Provide final foundation spot survey and anchor bolt survey.
 - i. Subcontractor shall coordinate the layout and placement of anchor bolts with the steel. The Subcontractor shall receive, unload and inventory all embeds noting any discrepancies in a timely manner to the CM. Concrete subcontractor's surveyor will provide an anchor bolt survey. Any and all items incorrectly placed are to be relocated immediately and prior to the structural steel arriving on the job site. Subcontractor shall submit a procedure for correcting anchor bolts to the engineer for approval within 15 days of award of contract to insure there is a process in place to correct deficient or misplaced work.
- e. Coordinate and place sleeves, recesses and box-outs provided by others through cast in place and composite concrete floors, beams, etc. as required.
- f. Coordinate and place work of other trades which are embedded-into or project-from the cast-in-place concrete, such as conduit/pipe stub-ups, precast and storefront connection embeds, elevator sill embeds, curb/pad dowels-out, etc. Subcontractor reviewed the mechanical, electrical, and other documents, and understands that all conduit/pipes will be stubbed above top-of-slab elevation (not flush or below top-of-slab).
- g. Exterior bollards by site concrete subcontractor.
- h. Coordinate any box out requirements with the electrician for the building grounding system that may be required. Include pouring in the box outs after the grounding system is tied into the steel reinforcing.

10. WATERPROOFING AND INSULATION

- a. Provide below grade waterproofing and rigid insulation as shown.
- b. Properly prepare concrete walls and foundations to receive waterproofing and insulation.
- c. Seal all penetrations within your construction at the time of installation.
- d. Subcontractor shall provide temporary generators with fuel for all work to be performed in the field under this contract as applicable.

11. TEMPORARY CONSTRUCTION

- a. Furnish and install temporary concrete washout area including removal and disposal. Maintain as directed by LCI superintendent. Set up and maintenance of washout area as plastic lined dumpsters provided by concrete sub.
- b. Furnish and provide all power for tools and equipment as required. No power will be provided during this subcontractor's scope of work.
- c. Furnish and install job built wood ladder with guardrails at the top for access to elevated deck. Provide (2) locations from level 1 to level 2. Include remobilization for removal and disposal to dumpsters after ladders and permanent stairs are available. Coordinate locations of ladders with LCI Superintendent.
- d. Subcontractor includes furnishing and installing OSHA approved railings at all stairs, stair landings and stair openings and wood infills at stair treads/landings with maintenance. Subcontractor to install toe boards after the placement of concrete at perimeter of openings and building perimeter where required and at elevator shafts.
- e. Subcontractor shall provide guard rails at CMU openings and elevator shafts.
- f. Furnish and install temporary elevator pit covers for elevator pit at all floor levels. The covers shall be erected to withstand 10 people plus equipment. Included removal once elevator is installed.

12. WINTER WEATHER CONSTRUCTION

- a. Subcontractor includes using the appropriate admixtures for hot and cold weather work as well as to accommodate the pumping of redimix materials.
- b. Include high early admixtures and/or accelerant for pours during cold weather months. Include blankets and labor to move/relocate blankets and winter services/hot water charges. It is this subcontractor's responsibility to review the Project Scheduled located in the project manual to determine what is required. All costs shall be included in base bid. At a minimum, include for the following.
 - i. The building foundation/footings
- c. See Leopardo Project Manual Volume 1 for further information and provide whatever is most stringent.

13. SEISMIC REQUIREMENTS

- a. Meet or exceed all requirements necessary to comply with seismic codes for work as specified.

14. EXCLUSIONS

- a. Materials, soils and compaction testing of this contractor's work, unless additional tests are required as a result of negligence or poor workmanship.
- b. Final sealing and epoxy concrete polishing of concrete to be by others.
- c. Stone sub-base or backfill of any kind.
- d. Concrete work associated with electrical light poles bases, exterior scissor lift, site conduit duct banks, flatwork curbs, gutters and aprons by Site Concrete Subcontractor
- e. Grouting of base plates in masonry details.
- f. Trench drains to be furnished by Plumbing Contractor.

END OF SECTION 00220.203

SECTION 00220.204
WORK SCOPE METAL PANEL

The Scope of Work includes all labor, material, tools, equipment, scaffolding, hoisting, supervision and engineering as required to complete the **Metal Panel** Scope of Work in accordance with the Contract Documents and enumerated below:

Subcontractor understands the Contract Documents are scope documents that indicate the general scope of the project which may not indicate or describe all the work required for the full performance and completion of their work. Subcontractor includes all items reasonably inferable to complete their scope of work whether or not indicated on the Contract Documents.

TRADE SPECIFIC – METAL PANEL

1. See “General Work Scope” for General Requirement, applicable to all bid packages.
2. **GENERAL**
 - a) Provide sufficient crew size and sufficient quantity of equipment, tools, and materials to conform to Leopardo project schedule. Subcontractor to complete this scope of work in the number of working days specified in this schedule. A full-time manager/supervisor and full-time competent safety supervisor shall be present during all work. Start date and sequence to be at the direction of Leopardo superintendent.
 - b) Subcontractor shall submit for approval his proposed scheme for the hoisting of all equipment, including any required shop drawings, sketches and/or load distribution diagrams and calculations verifying adequacy of supporting systems so as to allow erection activities to be coordinated and approved with other Subcontractor’s field operations and structural engineer.
 - c) Properly protect all materials stored on-site. CM will not be responsible for damage to stored materials.
 - d) Position layout and adjust size of panels to avoid narrow strips or unequal dimensions at perimeter or at panel joints. Provide a seaming diagram and layout of elevations for approval by the Architect prior to commencement of the Work.
 - e) Carpenter Subcontractor will provide blocking for all materials as shown on drawings. Metal wall panel contractor will be responsible to provide any additional materials as needed to install metal wall panels per the specifications beyond what is shown. Provide all necessary wall cleats and anchors needed to securely fasten wall panels.
 - f) Systems shall be installed plumb, level, and flat. Provide necessary shims and adjustments in mounting systems to accommodate irregularities in substrates.
 - g) Coordinate with installations of other trades to ensure that building exterior remains weathertight. Provide compatible flashings, receiver pieces, caulking, etc. as needed in conjunction with adjacent systems.
 - h) There will be roughly a 6’ site cut between the existing Health Department and the north side of the proposed building footprint for the new Health Department. All subcontractors are to understand that site access will be limited on the north elevation of the new building footprint and shall coordinate all construction activities accordingly.
3. **MOCK-UPS AND TESTING**
 - a) On-site field mock-up of a completed portion of permanent wall construction per the specifications.
 - b) Provide small scale mock-ups and samples illustrating system assembly and function.
 - c) Subcontractor shall engage a qualified testing agency to perform tests and inspections to conduct water-spray testing as specified.
 - d) Subcontractor shall repair system failures and prepare for retesting in the same manner for as many times necessary to comply with all requirements and pass the test.
 - e) Any other testing with required documentation per the specifications. If test reports are unavailable, provide calculations stamped by engineer to demonstrate structural performance.

4. METAL PANEL SYSTEM

- a) All metal wall panels throughout the project as shown on the plans, details, finish schedules, and elevations.
- b) Include metal panel roof screen including all attachment accessories.
- c) Provide complete support and attachment for all metal panels including:
 - i. All stiffeners as needed to maintain panel rigidity as provided by the panel manufacturer
 - ii. Subframing system, Z-clips, shims, metal channels or other methods of attachment necessary to attach metal panels to proposed substrates.
- d) Furnish and install insulation behind metal panels including any required furring strips.
- e) Includes tape at insulation seams behind wall panels and at adjacent systems
- f) Include all reveals and joints between and surrounding wall panels.
- g) Include all necessary trim pieces at outside corners, drip edges, raw edges, and elsewhere as shown
- h) Gravel stop, coping, gutters, end caps, or trim extrusions at metal panel areas.
- i) Panel accessories including closures, backing plates, closure strips, flashing and trim, panel fasteners, and panel sealants as required.
- j) Include all metal fascia and soffits
- k) Provide continuous flashing at the base of wall, head of window openings, at each floor line, and at roof level as specified in the documents.
- l) Include all necessary materials and coordination to accommodate expansion joints.
- m) Include metal closures and infill panels at all interior locations ~~as shown as required~~.
- n) Provide formed aluminum break metal at all interior locations ~~as required~~ including, but not limited to, openings for windows, man doors, sectional doors, etc.
- o) Include all manufacturer recommendations for field measuring and scanning.
- p) Provide all necessary provisions to meet seismic requirements including special fasteners and clips.
- q) Include cut-outs for all penetrations within wall panels including but not limited to receptacles, supports, trim, etc. Coordinate with other trades.
- r) Meet or exceed performance criteria outlined in the specifications
- s) Exterior sheeting shall be provided by others. Metal panel subcontractor shall be responsible to maintain integrity of sheeting substrates and air barriers during the installation process.
- t) Include all caulking and sealants as required for system including joints within panel systems, between panel systems, and dissimilar materials and adjacent work by others.
- u) Repair/seal all penetrations through the air barrier with approved material.
- v) Metal panel subcontractor shall furnish flat stock for roofer to fabricate and install coping and gravel stops at non-metal panel (masonry, ~~fiber-cement~~, etc.) areas. This includes the coping pieces specified for the dumpster enclosure as well.
- w) Metal panel subcontractor shall furnish flat stock for roofer to fabricate and install downspouts, scuppers, conductor heads, and overflows.
- x) Provide metal/stainless steel bands as ~~shown as required~~.
- y) Structural support steel shown on Structural Drawings will be by others. All other installation accessories and additional misc. steel support for proper installation to be included in the bid.
- z) Minimum 5% attic stock (but not less than one full case of each material & color provided) or greater quantity if specified by the architect.

5. EXCLUSIONS

- a. Sheathing behind panels. (By Carpenter)
- b. Air and vapor barriers behind panels. (By Air Barrier Subcontractor)

END OF SECTION 00220.204

SECTION 00220.205 WORK SCOPE ROOFING

The Scope of Work includes all labor, material, tools, equipment, scaffolding, hoisting, supervision and engineering as required to complete the **Roofing** Scope of Work in accordance with the Contract Documents and enumerated below:

Subcontractor understands the Contract Documents are scope documents that indicate the general scope of the project which may not indicate or describe all the work required for the full performance and completion of their work. Subcontractor includes all items reasonably inferable to complete their scope of work whether or not indicated on the Contract Documents.

TRADE SPECIFIC –ROOFING

1. See “General Work Scope” for General Requirement, applicable to all bid packages.
2. **GENERAL/MISCELLANEOUS**
 - a. Provide sufficient crew size and sufficient quantity of equipment, tools, and materials to conform to Leopardo project schedule. Subcontractor to complete this scope of work in the number of working days specified in this schedule. A full-time manager/supervisor and full-time competent safety supervisor shall be present during all work. Start date and sequence to be at the direction of Leopardo superintendent.
 - b. Subcontractor shall submit for approval his proposed scheme for the hoisting of all equipment, including any required shop drawings, sketches and/or load distribution diagrams and calculations verifying adequacy of supporting systems so as to allow erection activities to be coordinated and approved with other Subcontractor’s field operations and structural engineer.
 - c. Carpenter Subcontractor will provide blocking for all materials as shown on drawings. Roofing Subcontractor will be responsible to provide any additional materials as needed to install roofing system per the specifications beyond what is shown. Provide all necessary wall cleats and anchors needed to securely fasten roofing system.
 - d. There will be roughly a 6’ site cut between the existing Health Department and the north side of the proposed building footprint for the new Health Department. All subcontractors are to understand that site access will be limited on the north elevation of the new building footprint and shall coordinate all construction activities accordingly
 - e. Extra trips required due to delays by roofing subcontractor will be at no extra cost to Leopardo or the owner.
 - f. All warranties as specified.
 - g. All roofing materials and assemblies shall meet or exceed stated UL and FM standards in the specifications.
 - h. Subcontractor has included all required OSHA safety tie-off’s, roof patching, and etc. Subcontractor shall remove and dispose of all wood guard rails at roof levels to LCI dumpster. Subcontractor acknowledges that access to roof will not be provided. This subcontractor must take the appropriate action to provide access for labor and materials to roof levels. Provide all support plates if required.
3. **EPDM ROOFING SYSTEM**
 - a. All membrane roofing shown in all forms throughout the project.
 - b. Vapor barriers, cover boards, or other materials as specified or as recommended by the manufacturer.
 - c. Insulation shall meet or exceed performance criteria in the specifications. Required aged LTTR values shall be maintained per the latest test data and industry standards.
 - d. Apply insulation as recommended by the manufacturer and as specified to achieve the proper drainage to roof drains.
 - e. Include all cant strips, saddles and crickets.
 - f. ~~Furnish and install roof expansion joints as shown for a complete system~~
 - g. Subcontractor has included at the minimum (1) additional trip(s) to come back at a later date for install

of parapet if required (weather permitting).

4. ROOF RELATED SHEET METALS AND ACCESSORIES

- a. Metal panel subcontractor shall furnish flat stock for roofer to fabricate and install coping and gravel stops at non-metal panel (masonry, etc.) areas. **This includes installing coping at trash enclosure.**
- b. Metal panel subcontractor shall furnish flat stock for roofer to fabricate and install downspouts, scuppers, and overflows
- c. Flash around all curbs and penetrations and equipment located in roof areas, including but not limited to, MEP penetrations/equipment, roof screens, drains, exhaust fans, vents, etc.
- d. Head flashings over window systems, framed walls and all other items requiring flashing at head of wall conditions. This subcontractor will be responsible for maintaining an integral flashing/sub flashing system from roofing to adjacent materials. Coordinate with other trades as required.
- e. All metal flashings and roof related sheet metal shall be prefinished per specs under this contract. Type and color of finish shall be as specified.
- f. Walkway pads as depicted.
- g. Provide all roof accessories
- h. All roof-related caulking.

5. EXCLUSIONS

- a) Metal fascia and soffits ~~(by others)~~ **by Metal Panel Subcontractor**
- b) Flat stock for coping, gravel stops, downspouts, scuppers, conductor heads, and overflows at metal panel areas (by others)

END OF SECTION 00220.205

SECTION 00220.206
WORK SCOPE STRUCTURAL STEEL

The Scope of Work includes all labor, material, tools, equipment, scaffolding, hoisting, supervision and engineering as required to complete the **Structural Steel** Scope of Work in accordance with the Contract Documents and enumerated below:

Subcontractor understands the Contract Documents are scope documents that indicate the general scope of the project which may not indicate or describe all the work required for the full performance and completion of their work. Subcontractor includes all items reasonably inferable to complete their scope of work whether or not indicated on the Contract Documents.

TRADE SPECIFIC – STRUCTURAL STEEL

1) See “General Work Scope” for General Requirement, applicable to all bid packages.

2) GENERAL

- a) Building permit is by the Owner. All other permits required for this work are the responsibility of this Contractor.
- b) ~~Layout for this Subcontractor’s work. Provide all engineering and layout by a union Illinois Registered Licensed Surveyor as required for the completion of your work. Initial bench marks and property corners will be provided by LCI.~~
- c) Subcontractor is responsible for ladders or temporary stairs to access their work and provide access for all inspections and testing.
- d) Subcontractor shall provide temporary generators with fuel for all work to be performed in the field under this contract.
- e) Subcontractor is responsible for all shipping, storage, transportation, and handling costs whatsoever required to provide a steady flow of material to the site.
- f) This Contractor is responsible to ensure and maintain the plumbness and squareness of the steel structure prior to and throughout the placing of the concrete slabs. Provide all temporary bracing, framing, shoring and guys, as required to maintain the stability and alignment of all structural steel members during erection. All guying and protection of steel shall be adequate for high wind conditions. Submittal and erection plans shall be demonstrative of means and methods of bracing. Also include removal of all temporary bracing, framing, shoring and guys after the building floor slabs have been poured out.
- g) All stored materials should be stored off the ground on dunnage and shall remain clean throughout the steel operation. Subcontractor shall clean steel pieces that become soiled.
- h) Subcontractor shall clean and provide touch-up painting of bolted and/or welded connections and abraded areas. After erection, field coat all abrasions, nuts, bolts, washers, and surfaces left unpainted that are scheduled to receive a prime coat with paint or galvanized coatings as required.
- i) Clean up and remove from site all excess decking, crating, dunnage, etc., in connection with the work of this contract.
- j) This Contractor shall provide a job logistics plan on any critical load picks.

3) STRUCTURAL STEEL

- a) Any and all structural steel as indicated throughout the contract documents
- b) All columns cross bracing & beams ~~required as shown~~ to complete a fully functional structural steel system.
- c) All moment connections as ~~required-shown~~.
- d) Diagonal bracing with headed stud embed plates as required.
- e) Misc. bent plates, angles, embedments, and any other steel required to support structure or bear weight wherever required to complete the structural steel systems. Provide galvanized plates anywhere the embeds will be outside of the building.
- f) Subcontractor shall provide a plumbness survey of all columns after work is completed.

- g) Provide all temporary bracing, supports, bolts and etc. for a complete temporary system of the structure as required until all decking is fully installed and fully welded.
- h) Anchor bolt survey to be Building ~~Electrical~~ Concrete Subcontractor.
- i) Furnish and install all screen wall steel as indicated on the structural drawings.
- j) Furnish and install all cap plates with associated connection systems.
- k) ~~Furnish and install all metal canopies. Concrete work by others. Provide setting plates, etc. to the Concrete Subcontractor for embedding into the concrete.~~

4) METAL DECKING AND ACCESSORIES

- a) All metal decking of type and finish indicated.
- b) Decking to be galvanized as required by the Contract Documents or industry standards.
- c) All shear studs.
- d) All complete structural systems associated with deck openings for stairs, elevators, mechanical, and architectural shafts.
- e) Deck closure angles and pour stops at all deck terminations and openings as needed
- f) Extend edge angles.
- g) ~~Blow down of decks prior to concrete placement.~~
- h) Roof drain frames and sump pans.
- i) Include all transition plates; cover plates for gaps not covered by deck units and to cover welding accessory holes; continuous sheet metal closure plates at openings, deck changes, direction changes and at edge of slabs for concrete decks to act as concrete stops; metal cover plates to close gaps and join edges at changes in deck and deck direction in roof decks; welding washers etc. as required.

5) STEEL ERECTION

- a) All steel furnished under this contract shall be erected under this contract unless specifically noted herein.
- b) By executing this contract, subcontractor acknowledges that he has made himself aware of all site conditions and schedule constraints which bear on the means and methods of steel erection. Subcontractor will provide additional cranes, manpower or other equipment as needed to accommodate said conditions.
- c) Sequencing and staging of steel deliveries shall be coordinated with and approved by LCI superintendent. See project schedule for steel erection plans and sequencing of work.
- d) Provide all required permits for transporting oversized loads.
- e) Subcontractor will not be entitled to any additional compensation for additional haul roads required to complete their work.

6) MISCELLANEOUS

- a) Steel primer (except at spray-fireproofed steel).
- b) Galvanized steel wherever called for in the contract documents.
- c) Temporary bracing of all steel until all installations are complete.
- d) Angle frames at all deck penetrations as shown on the structural or architectural drawings or as needed to support the decking at penetrations of other trades.
- e) Furnish Elevator Hoist Beams for all elevator shafts.
- f) Furnish and Install bent plate pour-stop at all elevator shaft openings.
- g) Adjustable masonry ties on steel members - by the mason. Must coordinate with mason.
- h) Provide (1) temporary OSHA compliant roof ladder to each roof level. Coordinate locations of roof ladders.
- i) Touch-up of all primers in field.
- j) Provide 3D model to LCI for MEP coordination use. 3D model must be provided upon approved shop drawings.
- k) Provide lifts, manpower to run lifts and safety equipment for owners testing agency inspections.
- l) Framing for partition support as shown including structural calculations
- m) Provide operable partition supports. ~~Only structural steel as shown, all additional hardware by Operable Partition subcontractor.~~

- n) ~~Furnish and install any cold applied asphalt emulsion as depicted on the drawings.~~
- o) Furnish only all anchor bolts, embeds, and setting/base plates.
- p) Subcontractor is to provide detailed embed drawings and templates to Construction Manager and the Concrete subcontractor. Subcontractor is to hold a meeting between all parties involved with the installation of embed. Prior to the start of erection, the subcontractor is to revise the as built drawings for anchor bolts, etc. furnished to them by the concrete subcontractor and identify any discrepancies that need to be addressed. Once the erection starts, any discrepancies discovered after the fact will become the Structural Steel Subcontractor erectors responsibility to remedy at no additional cost.
- q) Deliver all concrete embedded items to the concrete subcontractor and perform a join inventory with them. Any missing items after the quantities are confirmed will be the responsibility of others to replace. Failure to secure a sign off from the concrete subcontractor on a delivery ticket will result in subcontractor becoming responsible for replacing any shortages of embeds at no cost to others.

7) SAFETY MEASURES

- a) Provide OSHA approved safety cabling at perimeter of all floors including roof and at all deck. Maintain cabling until specific area of the project is released for the work of other trades. Steel sub to maintain during construction. Toe boards shall be furnished and installed by the Concrete contractor including toe board maintenance. Provide perimeter roof cabling as required by OSHA for steel erection. Steel Subcontractor to furnish and install all steel stranded cable system at the perimeter of the building. The safety rails shall be independently arranged so that the rails can only be removed from column to column ~~and hanger to hanger~~ without affecting the adjacent rails on the floor or next to the removed rails. Each column shall be punched to accept steel guard rail system. This subcontractor must provide all cabling turn buckles, engineering and etc. for a complete guard rail system. Removal of toe board and attachment is to be by Miscellaneous Steel Subcontractor. Removal and salvage of safety cable is to be by Miscellaneous Steel Subcontractor. Coordinate with Site Superintendent.
- b) This Contractor shall install all steel angle (for floor openings and penetrations) leaving decking in place, per OSHA standards for covering openings. The removal of the decking for penetrations will be by others.
- c) This Contractor must submit a barrier removal permit to the CM in order to remove any cable as necessary to perform the Work.
- d) For all framed openings, this contractor is to supply in-fill of decking with temporary supports, to be removed by others.
- e) Assure that all construction loads imposed by this scope of work do not exceed the capacity of the deck.
- f) Subcontractor acknowledges that CM will not be providing a crane. Therefore, the Subcontractor includes providing a crane and operator as required for the installation of the Work. Subcontractor includes plating over site utility trenches to provide protection for crane/truck traffic as required. Subcontractor shall take the necessary precautions to protect all lay down and staging areas from damage.
- g) If crane pads mats required for crane or truck access, Subcontractor is to provide same at no additional cost. Subcontractor is responsible for ladders or temporary stairs to access their work and provide access for all inspections and testing.
- h) Provide OSHA approved crane pad(s) for all steel erection.

9. SEISMIC REQUIREMENTS

- a) Meet or exceed all requirements necessary to comply with seismic codes for work as specified.

10. EXCLUSIONS

- a) Cold Formed Metal Framing
- b) Miscellaneous Metals (except as noted above). All other miscellaneous metals to be under a separate package. Review Miscellaneous Metal Work Scope to ensure no scope gaps.
- c) Grouting of base and setting plates.
- d) Stairs & Railings
- e) Masonry lintels for Elevator Door for elevator opening. By Miscellaneous Metals Subcontractor.

- f) Security bollards. By Miscellaneous Metals Subcontractor.
- g) Metal screen wall (panels). (by metal panel subs)
- h) Miscellaneous loose steel lintels. By Miscellaneous Metals Subcontractor.
- i) All steel supports shown on the drawings for proper millwork installation
- j) Elevator Sump Pit Cover in elevator shaft. By Miscellaneous Metals Subcontractor.
- k) Trash enclosure gate. By Fences and Gates Subcontractor.

END OF SECTION 00220.206

SECTION 00220.207
WORK SCOPE MISCELLANEOUS METALS

The Scope of Work includes all labor, material, tools, equipment, scaffolding, hoisting, supervision and engineering as required to complete the **Miscellaneous Metals** Scope of Work in accordance with the Contract Documents and enumerated below:

Subcontractor understands the Contract Documents are scope documents that indicate the general scope of the project which may not indicate or describe all the work required for the full performance and completion of their work. Subcontractor includes all items reasonably inferable to complete their scope of work whether or not indicated on the Contract Documents.

TRADE SPECIFIC – MISCELLANEOUS METALS

1. See “General Work Scope” for General Requirement, applicable to all bid packages.

2. GENERAL

- a. Building permit is by the Owner. All other permits required for this work are the responsibility of this Contractor.
- b. Subcontractor acknowledges that CM will not be providing any cranes. Therefore, the Subcontractor includes providing a crane and operator as required for the installation of the Work.
- c. Subcontractor shall provide temporary generators with fuel for all work to be performed in the field under this contract.
- d. Subcontractor is responsible for all shipping, storage, transportation, and handling costs whatsoever required providing a steady flow of material to the site.
- e. All stored materials should be stored off the ground on dunnage and shall remain clean throughout the steel operation. Subcontractor shall clean steel pieces that become soiled.
- f. Subcontractor shall clean and provide touch-up painting of bolted and/or welded connections and abraded areas. After erection, field coat all abrasions, nuts, bolts, washers, and surfaces left unpainted that are scheduled to receive a prime coat with paint or galvanized coatings as required.
- g. Clean up and remove from site all excess crating, dunnage, etc., in connection with the work of this contract.

3. MISCELLANEOUS METALS

- a. Galvanized steel wherever called for in the contract documents.
- b. Furnish and install elevator sump pit cover in elevator shaft.
- c. Remove rust and touch-up of all primers in field prior to paint by others.
- d. Provide lifts, manpower to run lifts and safety equipment for owners testing agency inspections.
- e. Grind, brush, and finish all areas of exposed steel as required by the specifications.
- f. Misc. steel angles, channels, etc. as shown at partitions, exterior and interior overhead coiling doors, etc.
- g. All steel supports shown on the drawings for proper millwork installation shall be furnished by miscellaneous metals subcontractor including, but not limited to brackets associated with lavatory counters.
- h. Coordinate all work with structural steel contractor to insure proper reinforcing, dimensions, fitting, and accessories necessary for a complete installation.
- i. Furnish Masonry lintels for each elevator door for elevator opening. Installation by Masonry Subcontractor.
- j. Provide all misc. steel lintels as indicated on drawings. Installation by mason
- k. Elevator pit ladders and all other miscellaneous ladders shown.
- l. Steel posts in partial height gyp walls
- m. Miscellaneous steel subcontractor to be responsible to remove and maintain all toe boards and temporary cable railing (provided by structural steel sub)

- n. Miscellaneous steel contractor will be responsible to provide all miscellaneous steel not indicated in the structural steel contractors scope (See section 00220.206) and masonry scope (see section 00220.202) as needed to complete work for a complete miscellaneous steel package.
- o. Furnish Steel bollards. Installation by Site Concrete Subcontractor.
- p. All guardrails including, ~~but not limited to exterior loading lift guardrail~~ with the exception of the exterior scissor lift guardrail (provided by scissor lift subcontractor).
- q. Furnish and install steel plates between stair stringer and back of storefront framing. See note 5.092 on sheet A501.
- r. ~~Furnish and install all metal canopies. Concrete work by others. Provide setting plates, etc. to the Concrete Subcontractor for embedding into the concrete.~~

4. STAIRS AND RAILINGS

- a. Furnish and install all stair and related landings
- b. Include all secondary support for all landings as needed.
- ~~c. Include Precast stair treads as required.~~
- ~~d. Provide painted perforated cold-rolled steel panel for decorative stairs.~~
- e. Stairs will be erected concurrently with structural steel so that they are complete at the earliest time possible.
- f. Subcontractor to provide delegated design per specifications requirements and as applicable for all stairs and railings.
- g. Provide supports and anchors related to railings for a complete system.
- ~~h. Glazed Decorative Metal Railing system to be by the Glazing Subcontractor. Complete stair and landing system to be by the Misc. Metal Subcontractor. Coordinate any embedments or leave outs as needed with the Glazing Subcontractor.~~
- i. Include finished channels and trim as needed where your system adjoins other finishes
- j. Grind, brush, and finish all areas of exposed steel as required by the specifications.
- k. All railings shall be ground smooth at the end of the project prior to final painting. Subcontractor has included re-priming and repairing any rust that might have occurred during the project.
- l. Installation of any wall mounted railings during a separate mobilization at direction of CM.
- m. Provide escutcheons as ~~shown~~ required at railings
- n. Specified finishes and hardware required for entire railing. Coordinate with all trades your work interfaces with.
- o. Caulk to dissimilar surfaces.
- p. All stainless-steel handrails.
- q. Include finished channels and trim as needed where your system adjoins other finishes.
- r. Coordinate all work with Structural Steel Contractor to insure proper reinforcing, dimensioning, fitting, and accessories necessary for a complete installation. This contractor will be responsible to provide any construction not indicated on the Structural Steel Contractor scope (Section #051200) as needed to complete the Work.
- s. Work with Millworker and other trades as necessary.
- t. Remove toe board and associated attachments provided and installed by Concrete subcontractor. Remove and salvage safety cable provided by Structural Steel subcontractor. Removal of all temporary steel angle set in decking for covering openings by Structural Steel subcontractor.
- u. Include all railing systems including, but not limited to stair railing systems and roofing railing systems.

5. SEISMIC REQUIREMENTS

- a. Meet or exceed all requirements necessary to comply with seismic codes for work as specified.

6. EXCLUSIONS

- a. ~~Glazed Decorative Metal Railing by Glazing Contractor.~~
- b. ~~Scissor Lift Guard Rail (by Scissor Lift Subcontractor)~~
- c. Cold Formed Metal Framing
- d. Exterior glass and interior glazing (except noted above)

- e. Trash Enclosure Gates (by fence sub)
- f. Elevator Hoist Beams for all elevator shafts. (by structural steel)
- g. Any work indicated as part of the structural steel scope (See section 00220.206)
- h. Metal screen wall panels and steel supports

END OF SECTION 00220.207

SECTION 00220.209
WORK SCOPE SPRAY INSULATION

The Scope of Work includes all labor, material, tools, equipment, scaffolding, hoisting, supervision and engineering as required to complete the **Spray Insulation** Scope of Work in accordance with the Contract Documents and enumerated below:

Subcontractor understands the Contract Documents are scope documents that indicate the general scope of the project which may not indicate or describe all the work required for the full performance and completion of their work. Subcontractor includes all items reasonably inferable to complete their scope of work whether or not indicated on the Contract Documents.

TRADE SPECIFIC - SPRAY INSULATION

1. See "General Work Scope" for General Requirement, applicable to all bid packages.
2. **SPRAY INSULATION**
 - a. Furnish and install all spray-applied insulation
 - b. Wherever a discrepancy exists between code and specification requirements adhere to the more stringent standard.
 - c. Protect all finishes and construction which will remain exposed to occupied areas.
 - d. Completely scrape and remove all excess materials from surfaces to receive finishes and elsewhere as directed by the LCI
 - e. Include ~~(3)~~ (2) mobilizations to complete the masonry veneer and metal panels at separate times
3. **EXCLUSIONS**
 - a. Rigid insulation
 - b. Spray Fireproofing

END OF SECTION 00220.209

SECTION 00220.210 WORK SCOPE ELEVATOR

The Scope of Work includes all labor, material, tools, equipment, scaffolding, hoisting, supervision and engineering as required to complete the **Elevator** Scope of Work in accordance with the Contract Documents and enumerated below:

Subcontractor understands the Contract Documents are scope documents that indicate the general scope of the project which may not indicate or describe all the work required for the full performance and completion of their work. Subcontractor includes all items reasonably inferable to complete their scope of work whether or not indicated on the Contract Documents.

Trade Specific – Elevator

1. See “General Work Scope” for General Requirement, applicable to all bid packages.
2. **GENERAL/MISCELLANEOUS**
 - a. Coordination of storage area with Leopardo Superintendent must be confirmed in writing prior to delivery.
 - b. Subcontractor shall provide all cutting and patching of CMU for through wall penetrations of one’s work.
 - c. Subcontractor has included providing and installing (1) set of protection pads and buttons for all walls for each elevator.
 - d. Subcontractor must provide elevator rail reactions into structure within 10 working days after formal notice of award.
3. **HYDRAULIC ELEVATOR SYSTEM**
 - a. Subcontractor has included furnishing and installing the elevator per specifications.
 - b. Furnish and install elevator ladder(s).
 - c. This subcontractor is to provide all work required for the elevators that is not covered in the Electrical/FA scope of work. Coordinate your work with the Electrical/FA and Security Subcontractors.
 - i. The electrical contractor will provide power to a disconnect box located just inside the elevator machine room. The elevator subcontractor is to provide all other electrical wiring, control wiring, making the terminations, etc. as required for a fully functional elevator system. It will also be this subcontractor’s responsibility to locate the disconnect on the wall for the electrician’s installation.
 - ii. The elevator subcontractor shall include the shunt trip and disconnect as required by code. Conduit and wiring from disconnect to elevator machine will be provide by the electrical contractor.
 - iii. Subcontractor shall provide all low voltage wiring from the F/A relays, Shunt trip device, NC, NO contacts for EM power and etc for a complete operating system. Elevator Subcontractor shall interface with Electrical/F.A. Subcontractors with Fire Alarm System. Electrical Subcontractor will bring wires and land them in the controller.
 - iv. Subcontractor has included but not limited to all work associated with the installation card reader provisions within car. This subcontractor shall install card reader and wire via traveling cable back to a common location in the elevator machine room. Wiring from Elevator machine room to the card reader access system shall be by others.
 - v. Subcontractor has included the installation of speakers and wire in elevators for the F/A system. Speakers by F/A subcontractor.
 - vi. Subcontractor has included but not limited to all work for the CCTV system. Cameras to be supplied by others but installed by this subcontractor. Subcontractor shall wire in the car to the elevator machine room via traveling cable to a common location in the elevator machine room. All wiring from common location to CCTV system will be by others.
 - vii. Subcontractor has included but not limited to all work for the Intercom system. Intercom will be furnished by others but installed by this subcontractor. Subcontractor shall provide wiring inside of car and to elevator machine room common location. Wiring from elevator machine room common location to intercom system shall be by others.

- viii. Power being provided to each elevator will be as indicated power. Any additional power or step down transformers or etc that may be required to work with the elevator shall be the responsibility of the elevator subcontractor.
- d. Provide all VFD's, motors, starters, etc. associated with your equipment.
- e. Provide all hall lanterns, call buttons etc. as required. Back boxes for your work are to be U.L. rated so the enclosure system rating is not compromised by your box penetrating the assembly.
- f. Subcontractor shall provide elevator annunciator panel (ONLY IF REQUIRED BY AUTHORITIES HAVING JURISDICTION). Which shall include but not limited to conduit from the elevator controller to the Elevator annunciator panel. Subcontractor to provide all the cabling/wire and make the terminations. Annunciator back box installation will also be by this subcontractor.
- g. Coordinate the installation of the cab flooring with the flooring subcontractor.
- h. Provide emergency cab communication system complete.
- i. Subcontractor shall include a complete hoist way survey and provide a written letter confirming hoist way dimensions and specifications prior to starting any work starting.
- j. Subcontractor to provide all hoist way rail anchors, and all other rail mounting devices and materials for a fully operational system.
- k. Subcontractor has included but not limited to provide and install all elevator required signage (I.E. car number floor number, "In Case of Fire" signs, elevator machine room signage, and all other signage as required with authorities having Jurisdiction.)
- l. Subcontractor acknowledges that all bottom of hoist way work will be completed after the elevator installation has taken place. This is for proper field coordination of required items.
- m. Subcontractor had included grouting of all elevator sills.
- n. Subcontractor shall provide all access panels for governors as required. Machine room doors will be provided by others.
- o. Subcontractor has included but not limited all work associated with a complete EM Stand by power provisions for car.
- p. Furnish angle and bolts to Concrete Subcontractor for the elevator pit. Furnish shop drawings to Concrete Subcontractor for installation.

4. TESTING/INSPECTIONS

- a. Testing as required by code and pursuant to the contract documents. Subcontractor is to have the cabs certified by the appropriate governing authority.
- b. Subcontractor to coordinate all items for elevator recall testing, F/A testing and sprinkler testing for one's work to be completed
- c. Subcontractor has included all come back work for testing and approvals by inspectors as required.
- d. This subcontractor has included all permits and fees required for the project. This includes permits with State and Local Authorities having Jurisdiction.
- e. Execute and hang state elevator registration forms to elevator machine room prior to final inspection. Include all fees as applicable.
- f. Include a minimum of two inspections; one for construction use and one for final use.
- g. Include maintenance agreement per the specifications.

5. SCHEDULE FOR ELEVATORS

- a. Installation time will start after a dried, powered, cleaned hoist way and machine room.
- b. Subcontractor has included but not limited to 9 months of extended warranty for car being used for construction use.

END OF SECTION 00220.210

**SECTION 00400.202
BID PROPOSAL FORM – 2-02 Masonry**

ISSUE DATE: 10/22/2018
BID DUE DATE: 11/13/2018 1:00 PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID
Bid Category No 2-02 Masonry

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid (including allowances):		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Shop Drawings/Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$10,000
	DOLLARS	
C. Brick/Stone Veneer	_____	\$ _____
	DOLLARS	
D. CMU	_____	\$ _____
	DOLLARS	
E. Cast Stone	_____	\$ _____
	DOLLARS	
F. Cast Stone Sill	_____	\$ _____
	DOLLARS	
G. Misc. Rebar & Grouting	_____	\$ _____
	DOLLARS	
H. Insulation	_____	\$ _____
	DOLLARS	
I. Firestopping/Sound Caulking	_____	\$ _____
	DOLLARS	
	_____	_____

J. Interior Caulk	_____	\$ _____
	DOLLARS	
K. Accessories and All Others Items Not Listed Above	_____	\$ _____
	DOLLARS	
L. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	
M.	_____	\$ _____
	DOLLARS	

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on site Project Manager.

Allowance #1: Miscellaneous Scope	Ten Twenty Thousand	\$20,000 10,000
	DOLLARS	
TOTAL ALLOWANCES	Ten Twenty Thousand	\$20,000 10,000
	DOLLARS	

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

<u>ALTERNATE DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond	_____	\$ _____
	ADD _____ DOLLARS	
Alternate #2:	_____	\$ _____
	ADD/DEDUCT _____ DOLLARS	

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized

Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

1.	Brick/Stone Veneer	\$ _____ /SF
2.	Interior CMU	\$ _____ /SF
3.	Cast Stone	\$ _____ /SF
4.	Provide separate Sheet with Labor and Material Rates	\$ _____
5.	Provide separate Sheet with Heater/Winter Protection Rates	\$ _____

QUANTITIES: Bidders are required to submit the following quantities. Quantities will be used for the purpose of evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities listed below.

1.	Brick/Stone Veneer	_____ SF
2.	Interior CMU	_____ SF
3.	Ground Face Block	_____ SF
4.	Rigid Insulation	_____ SF
5.	Cast Stone	_____ SF
6.	Labor Hours	_____ HRS
7.	Submittals	_____ DAYS
8.	Material Lead Time Upon Approval	_____ WEEKS

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

____ An individual doing business as _____
____ A partnership _____
____ A limited liability company, organized in _____ (enter state)
____ A corporation, organized in _____ (enter state)
____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Business address: _____

Telephone no.: () _____

ATTACHMENTS (REQUIRED):

____ Bid Bond or Cashier's Check (10% of Base Bid)
____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)
____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.202

**SECTION 00400.203
BID PROPOSAL FORM – 2-03 – Building Concrete**

ISSUE DATE: 10/22/2018
BID DUE DATE: 11/13/2018 1:00PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID
Bid Category No. 2-03 Building Concrete

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid (including allowances):		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Shop Drawings/Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$10,000
	DOLLARS	
C. Footings/Foundations (Includes Rebar – Labor and Material)	_____	\$ _____
	DOLLARS	
D. Foundation/Slab Insulation	_____	\$ _____
	DOLLARS	
E. Waterproofing	_____	\$ _____
	DOLLARS	
F. Slab On-Grade	_____	\$ _____
	DOLLARS	
G. Elevated Deck	_____	\$ _____
	DOLLARS	
H. Concrete for Metal Stairs	_____	\$ _____
	DOLLARS	
I. Layout	_____	\$ _____
	DOLLARS	

J. Foundation Spot Survey And Anchor Bolt Survey	_____	\$ _____
	DOLLARS	
K. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	
L. Winter Weather Provisions	_____	\$ _____
	DOLLARS	
M. Any Other Work Not Listed Above	_____	\$ _____
	DOLLARS	

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on-site Project Manager.

Allowance #1: Form, Reinforce, and Pour Unidentified Equipment Pads	Ten Thousand _____	\$10,000 _____
	DOLLARS	
Allowance #2:	_____	\$ _____
	DOLLARS	
TOTAL ALLOWANCES	TEN THOUSAND _____	\$10,000 _____
	DOLLARS	

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

<u>ALTERNATE DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond	_____	\$ _____
ADD	DOLLARS	
Alternate #2: Deduct Barrier One Moisture Vapor Reduction Admixture	_____	\$ _____
DEDUCT	DOLLARS	
Alternate #3: Deduct Spray-Lock	_____	\$ _____
DEDUCT	DOLLARS	

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

- | | | |
|----|---|--------------|
| 1. | Furnish and install a 6" equipment pad on concrete deck including reinforcing, finishing, formwork, etc. (note – unit price is for both additive and deductive work) | \$ _____ /SF |
| 2. | Furnish and install a 4" equipment pad on concrete deck including reinforcing, finishing, formwork, etc. (note – unit price is for both additive and deductive work) | \$ _____ /SF |
| 3. | Furnish and install an exterior 8" equipment pad including reinforcing, finishing, formwork, 6" stone base etc. (note – unit price is for both additive and deductive work) | \$ _____ /SF |
| 4. | Include a separate sheet with labor and material rates. | _____ |
| 5. | Include a separate sheet with winter weather rates including material and labor for admixtures, accelerants, blankets, winter services, hot water charges, etc. | _____ |
| 6. | | _____ |

QUANTITIES: Bidders are required to submit the following quantities. Quantities will be used for the purpose of evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities listed below.

- | | | |
|----|----------------------------------|------------|
| 1. | Labor Hours | _____ HRS |
| 2. | Submittals | _____ DAYS |
| 3. | Material Lead Time Upon Approval | _____ DAYS |
| 4. | Concrete | _____ CY |

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

_____ An individual doing business as _____
_____ A partnership
_____ A limited liability company, organized in _____ (enter state)
_____ A corporation, organized in _____ (enter state)
_____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Business address: _____

Telephone no.: () _____

ATTACHMENTS (REQUIRED):

_____ Bid Bond or Cashier's Check (10% of Base Bid)
_____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)
_____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
_____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.203

SECTION 00400.205
BID PROPOSAL FORM – 2-05 – Membrane Roofing

ISSUE DATE: 10/22/2018
BID DUE DATE: 11/13/2018 1:00 PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID

Bid Category No. 2-05 – Membrane Roofing

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid (including allowances):		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Shop Drawings/Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$5,000
	DOLLARS	
C. EPDM Roofing	_____	\$ _____
	DOLLARS	
D. Walkway Pads	_____	\$ _____
	DOLLARS	
E. Sheet Metal Flashing & Trim	_____	\$ _____
	DOLLARS	
F. Roof Expansion Joint	_____	\$ _____
	DOLLARS	
G. Insulation/Vapor Retarder	_____	\$ _____
	DOLLARS	
H. All Other Items/Accessories Not Listed Above	_____	\$ _____
	DOLLARS	
F. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	
	_____	_____

G.		DOLLARS	\$
H.		DOLLARS	\$

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on site Project Manager.

Allowance #1: Miscellaneous Roofing	Five Thousand	DOLLARS	\$5,000
<hr/>			
TOTAL ALLOWANCES	FIVE THOUSAND	DOLLARS	\$5,000

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

SEE ALTERNATE LIST FOR A COMPLETE LIST OF ALTERNATES. INCLUDE AS AN ATTACHMENT TO THIS BID FORM

<u>ALTERNATES DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond		\$
ADD	DOLLARS	
Alternate #2: Deduct additional trip for parapet installation.		\$
ADD /DEDUCT	DOLLARS	
Alternate #3:		\$
ADD/DEDUCT	DOLLARS	

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or

deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

1.	Provide Labor and Equipment Rates on Separate Form	Attach Own Format
2.	Furnish & Install Complete EPDM Roofing System	\$ /SF
3.		\$ /LF
4.		\$

QUANTITIES: Bidders are required to submit the following quantities. Quantities will be used for the purpose of evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities listed below.

1.	Furnish & Install EPDM Roofing System	SF
2.	Submittals/Shop Drawings Durations (after award)	WEEKS
3.	Material Lead Times (after approval)	WEEKS
4.	Total Labor Hours	HRS
3.		

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

____ An individual doing business as _____
____ A partnership _____
____ A limited liability company, organized in _____ (enter state)
____ A corporation, organized in _____ (enter state)
____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Business address: _____

Telephone no.: _____ () _____

ATTACHMENTS (REQUIRED):

- ____ Bid Bond or Cashier's Check (10% of Base Bid)
- ____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)
- ____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
- ____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.205

SECTION 00400.206
BID PROPOSAL FORM – 2-06 – Structural Steel

ISSUE DATE: 10/22/2018
BID DUE DATE: 11/13/2018 1:00 PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID
Bid Category No. 2-06 Structural Steel

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid:		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Shop Drawings/Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$10,000
	DOLLARS	
C. Structural Steel	_____	\$ _____
	DOLLARS	
D. Joists	_____	\$ _____
	DOLLARS	
E. Decking	_____	\$ _____
	DOLLARS	
F. Misc. Steel	_____	\$ _____
	DOLLARS	
G. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on site Project Manager.

Allowance #1: Steel (for items not in contract documents no work scope)	Ten Five Thousand	\$5,000 10,000
	DOLLARS	
TOTAL ALLOWANCES	Ten Five Thousand	\$5,000 10,000
	DOLLARS	

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

<u>ALTERNATE DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond		\$
	ADD	DOLLARS
Alternate #2:		\$
	ADD/DEDUCT	DOLLARS

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

1.	Structural Steel	\$	/TON
2.	Structural Metal Deck	\$	/SF
3.	Moment Connection	\$	/EA
4.		\$	/HR

QUANTITIES: Bidders are required to submit the following quantities. Quantities will be used for the purpose of evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities listed below.

1.	Steel Man Hours (Erection Only)	HRS
2.	Moment Connections	TOTAL
3.	Shop Drawings Duration (after award)	WEEKS
4.	Fabrication Duration (after approval)	WEEKS
5.	Installation Duration	WEEKS
6.	Steel (Total Tonnage)	TONS

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

- _____ An individual doing business as _____
- _____ A partnership
- _____ A limited liability company, organized in _____ (enter state)
- _____ A corporation, organized in _____ (enter state)
- _____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Leopardo Companies Inc.

Business address:

Telephone no.: ()

ATTACHMENTS (REQUIRED):

- _____ Bid Bond or Cashier's Check (10% of Base Bid)
- _____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)
- _____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
- _____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.206

SECTION 00400.207
BID PROPOSAL FORM – 2-07 – Miscellaneous Metals/Stairs-Ornamental & Railings

ISSUE DATE: 10/22/2018
BID DUE DATE: 11/13/2018 1:00 PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID

Bid Category No. 2-07 Miscellaneous Metals/Stairs-Ornamental & Railings

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid (including allowances):		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Shop Drawings/Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$5,000
	DOLLARS	
C. Lobby Stair	_____	\$ _____
	DOLLARS	
D. All Other Stairs & Railings	_____	\$ _____
	DOLLARS	
E. Lobby Railing	_____	\$ _____
	DOLLARS	
F. Misc. Steel (Not Included Above)	_____	\$ _____
	DOLLARS	
G. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	
H.	_____	\$ _____
	DOLLARS	

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract

Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on site Project Manager.

Allowance #1: Miscellaneous Steel (For items not in contract documents nor scope of work)	Five Thousand	\$5,000
	<u>DOLLARS</u>	
TOTAL ALLOWANCES	<u>Five Thousand</u>	<u>\$5,000</u>
	DOLLARS	

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

<u>ALTERNATE DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond		
	ADD _____ DOLLARS	\$ _____
Alternate #2:		
	ADD/DEDUCT _____ DOLLARS	\$ _____

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

1.	\$	/TON
2.	\$	/TON

QUANTITIES: Bidders are required to submit the following quantities. Quantities will be used for the purpose of evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities listed below.

1.	Shop Drawings Duration (after award)	WEEKS
2.	10	10
3.	15	15
4.	20	20
5.	25	25
6.	30	30
7.	35	35
8.	40	40
9.	45	45
10.	50	50
11.	55	55
12.	60	60
13.	65	65
14.	70	70
15.	75	75
16.	80	80
17.	85	85
18.	90	90
19.	95	95
20.	100	100
21.	105	105
22.	110	110
23.	115	115
24.	120	120
25.	125	125
26.	130	130
27.	135	135
28.	140	140
29.	145	145
30.	150	150
31.	155	155
32.	160	160
33.	165	165
34.	170	170
35.	175	175
36.	180	180
37.	185	185
38.	190	190
39.	195	195
40.	200	200
41.	205	205
42.	210	210
43.	215	215
44.	220	220
45.	225	225
46.	230	230
47.	235	235
48.	240	240
49.	245	245
50.	250	250
51.	255	255
52.	260	260
53.	265	265
54.	270	270
55.	275	275
56.	280	280
57.	285	285
58.	290	290
59.	295	295
60.	300	300
61.	305	305
62.	310	310
63.	315	315
64.	320	320
65.	325	325
66.	330	330
67.	335	335
68.	340	340
69.	345	345
70.	350	350
71.	355	355
72.	360	360
73.	365	365
74.	370	370
75.	375	375
76.	380	380
77.	385	385
78.	390	390
79.	395	395
80.	400	400
81.	405	405
82.	410	410
83.	415	415
84.	420	420
85.	425	425
86.	430	430
87.	435	435
88.	440	440
89.	445	445
90.	450	450
91.	455	455
92.	460	460
93.	465	465
94.	470	470
95.	475	475
96.	480	480
97.	485	485
98.	490	490
99.	495	495
100.	500	500

2. Fabrication Duration (after approval) _____ WEEKS
3. Installation Duration _____ WEEKS

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

- _____ An individual doing business as _____
- _____ A partnership
- _____ A limited liability company, organized in _____ (enter state)
- _____ A corporation, organized in _____ (enter state)
- _____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Business address: _____

Telephone no.: () _____

ATTACHMENTS (REQUIRED):

- _____ Bid Bond or Cashier's Check (10% of Base Bid)
- _____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)

_____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
_____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.207

SECTION 00400.209
BID PROPOSAL FORM – 2-09 – Sprayed Insulation

ISSUE DATE: 10/22/2018
BID DUE DATE: 11/13/2018 1:00 PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID
Bid Category No. 2-09 Sprayed Insulation

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid (including allowances):		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$10,000
	DOLLARS	
C. Spray Insulation	_____	\$ _____
	DOLLARS	
D. Any Other Work Not Listed Above	_____	\$ _____
	DOLLARS	
E. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	
F.	_____	\$ _____
	DOLLARS	

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on site Project Manager.

Allowance #1: Patching	Ten Thousand	\$10,000
------------------------	--------------	----------

		DOLLARS
TOTAL ALLOWANCES	Ten Thousand	\$10,000
		DOLLARS

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

<u>ALTERNATE DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond		\$
ADD	DOLLARS	
Alternate #2:		\$
ADD/DEDUCT	DOLLARS	

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

1.	Spray Insulation	\$	/SF
2.	Provide Labor and Equipment Rates On Separate Sheet	\$	
3.		\$	

QUANTITIES: Bidders are required to submit the following quantities. Quantities will be used for the purpose of evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities listed below.

1.	Spray Insulation at Metal Panels	SF
2.	Spray Insulation at Masonry	SF
3.	Total Labor Hours	HRS

4. Submittal Lead Times _____ DAYS

5. Material Lead Time Upon Approval _____ DAYS

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

____ An individual doing business as _____
____ A partnership _____
____ A limited liability company, organized in _____ (enter state)
____ A corporation, organized in _____ (enter state)
____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Business address: _____

Telephone no.: () _____

ATTACHMENTS (REQUIRED):

____ Bid Bond or Cashier's Check (10% of Base Bid)

- _____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)
- _____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
- _____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.209

**SECTION 00400.210
BID PROPOSAL FORM – 2-10 – Elevator**

ISSUE DATE: 10/22/2018
BID DUE DATE: 11/13/2018 1:00 PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID
Bid Category No 2-10 Elevator

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid (including allowances):		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Shop Drawings/Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$10,000
	DOLLARS	
C. Elevator Equipment/Material	_____	\$ _____
	DOLLARS	
D. Elevator Install	_____	\$ _____
	DOLLARS	
E. Maintenance Service Agreement	_____	\$ _____
	DOLLARS	
F. Temporary (9) (3) month usage	_____	\$ _____
	DOLLARS	
G. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	
H.	_____	\$ _____
	DOLLARS	

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract

Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on site Project Manager.

Allowance #1: Hoistway Work/Patching	Five Thousand	\$5,000
	DOLLARS	
Allowance #2: Re-Inspection Fees	Five Thousand	\$5,000
	DOLLARS	
TOTAL ALLOWANCES	Ten Thousand	\$10,000
	DOLLARS	

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

<u>ALTERNATE DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond		\$
ADD	DOLLARS	
Alternate #2: 9 Month Temporary Usage & Extended Warranty		\$
DEDUCT	DOLLARS	
Alternate #3: Refurbish Car After Temporary Usage		\$
ADD	DOLLARS	
Alternate #4: (1) Day of Operator Time		\$
ADD	DOLLARS	
Alternate #5:		\$
ADD/DEDUCT	DOLLARS	

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

- | | | |
|----|--|-----------------|
| 1. | 1 Month Elevator Construction Use with Extended Warranty | \$ _____ /MONTH |
| 2. | Include Labor and Equipment Rates on Separate Sheet | _____ |
| 3. | 1 Day of Operator Time | \$ _____ /DAY |
| 4. | | _____ |

QUANTITIES/DURATIONS: Bidders are required to submit the following quantities and/or durations used for evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities or durations listed below.

- | | | |
|----|-------------------|-------------|
| 1. | Shop Drawing Time | _____ WEEKS |
| 2. | Fabrication Time | _____ WEEKS |
| 3. | Total Labor Hours | _____ HOURS |

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____. _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

- _____ An individual doing business as _____
- _____ A partnership _____
- _____ A limited liability company, organized in _____ (enter state)
- _____ A corporation, organized in _____ (enter state)

_____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Business address: _____

Telephone no.: () _____

ATTACHMENTS (REQUIRED):

- _____ Bid Bond or Cashier's Check (10% of Base Bid)
- _____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)
- _____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
- _____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.210

SECTION 00400.211
BID PROPOSAL FORM – 2-11 – Sectional Doors

ISSUE DATE: 10/22/2018
BID DUE DATE: 11/13/2018 1:00 PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID

Bid Category No. 2-11 - Sectional Doors

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid (including allowances):		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Shop Drawings/Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$0
	DOLLARS	
C. Sectional Overhead Doors	_____	\$ _____
	DOLLARS	
D. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	
E.	_____	\$ _____
	DOLLARS	

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on site Project Manager.

Allowance #1: N/A	ZERO	\$0
	DOLLARS	
<hr/>		
TOTAL ALLOWANCES	ZERO	\$0
	DOLLARS	

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

<u>ALTERNATE DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond		\$ _____
	ADD _____ DOLLARS	
Alternate #2: Provide and Install Stationary Loading Dock Equipment		\$ _____
	ADD _____ DOLLARS	

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

1. Provide Labor and Equipment Rates on Separate Sheet	<u>Attach Own Format</u>
2.	\$ _____ /HR

QUANTITIES: Bidders are required to submit the following quantities. Quantities will be used for the purpose of evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities listed below.

1. Sectional Overhead Doors	<u>EA</u>
2. Total Labor Hours	<u>HRS</u>
3. Submittal Lead Time	<u>DAYS</u>
4. Fabrication Lead Time	<u>DAYS</u>

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

- _____ An individual doing business as _____
- _____ A partnership _____
- _____ A limited liability company, organized in _____ (enter state)
- _____ A corporation, organized in _____ (enter state)
- _____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Business address: _____

Telephone no.: () _____

ATTACHMENTS (REQUIRED):

- _____ Bid Bond or Cashier's Check (10% of Base Bid)
- _____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)
- _____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
- _____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.211

SECTION 00400.212
BID PROPOSAL FORM – 2-12 – Spray Applied Fireproofing

ISSUE DATE: 10/22/2018
BID DUE DATE: 12/13/2018 1:00 PM

PROJECT: Will County Health Department
501 Ella Avenue
Joliet, Illinois

Attn: Leopardo Companies
Ali Borrelli
AJBorrelli@leopardo.com
Project Manager
5200 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

CONSTRUCTION
MANAGER: LEOPARDO COMPANIES, INC.

ARCHITECT: Kluber Architects + Engineers

FROM: _____

Name of Bidder: _____

Business Address: _____

Phone Number: _____

Bidder, in compliance with the Invitation to Bid for construction contemplated for Bid Package **No. 2 Misc. Steel/Structural/Enclosure** having carefully examined the Bidding Documents and the site of the proposed Project and the conditions affecting the proposed Work in the Bid Category(ies) including the condition of the Project site, any surface or subsurface obstruction, the actual levels, all excavating, filling in, removal and demolition, measurements and quantities involved in the Work, the availability of labor, materials and equipment, and the weather conditions that may possibly may be experienced in the Project vicinity, proposes to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, and services as are necessary to perform all Work in the Bid Category(ies) stated in accordance with the Contract Documents for the Base Bid and Alternate amounts stated below.

If identified as one of the apparent lowest bidder(s) for a Bid Category Bidder agrees to meet immediately with the Leopardo Companies Inc. and shall submit post bid information as described in Section 00200 Instructions to Bidders.

Bidder, if awarded a contract, agrees to: (1) execute the Agreement within fifteen (15) days of receiving notice of the award; (2) provide performance/payment bonds and insurance certificates in full compliance with the Contract Documents, (3) submit the Project Safety Program as described in Section 00200 Instructions to Bidders; (4) commence Work upon execution of the Agreement or at such other time as directed in the notice of award, and (5) to complete its Work in accordance with the Contract Documents and within the milestone activity dates and durations set forth in the Bidding Documents and subsequent construction project master schedule established by Leopardo Companies Inc.

BASE BID: Bidder agrees to perform all Work for Bid Category(ies) as described in the Contract Documents, for the Base Bid(s) stated below. The cost of performance and payment bonds shall be considered as an ADD Alternate. For each Bid Category to be bid, include the Base Bid, written and in figures, the cost of the payment & performance bond which is included in the base bid, written in figures, and the bid category and description.

(Show amounts in both words and figures. In case of discrepancy, amount shown in words will govern).

1. TOTAL BASE BID

Bid Category No 2-12 Spray Applied Fireproofing

<u>BID CATEGORY</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>BID AMOUNT IN FIGURES</u>
Combined Total Base Bid:		
A. Material	_____	\$ _____
	DOLLARS	
B. Labor	_____	\$ _____
	DOLLARS	
<hr/>		
TOTAL PROJECT COSTS	_____	\$ _____
	DOLLARS	

2. SCHEDULE OF VALUES: Bid Breakdown (Sum Must Match Above Total Including Allowances)

A. Shop Drawings/Submittals	_____	\$ _____
	DOLLARS	
B. Allowances (See Below for Total)	_____	\$5,000
	DOLLARS	
C. PlanGrid/Pull Planning	_____	\$ _____
	DOLLARS	
D. Labor	_____	\$ _____
	DOLLARS	
E. Materials-Spray Fireproofing	_____	\$ _____
	DOLLARS	

ALLOWANCES (INCLUDED IN BASE BID)

ALLOWANCES: The subcontractor expressly understands that the allowances listed below are included in the above Project Cost and are to be used for the work to be performed over and above the Scope of Work and the Contract Documents. Draws against these allowances will only be permitted with prior authorization from the Construction Manager's on site Project Manager.

Allowance #1: FIVE THOUSAND-ZERO \$0-5,000

	DOLLARS	
TOTAL ALLOWANCES	FIVE THOUSAND-ZERO	\$0-5,000
	DOLLARS	

ALTERNATES

ALTERNATES: The following Alternate(s) are requested be offered by the respective Bidders. In the event the Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (Show amount(s) in both words and figures for Alternates. In case of discrepancy, amount shown in words will govern.)

<u>ALTERNATE DESCRIPTION</u>	<u>WRITTEN DESCRIPTION/AMOUNT(S)</u>	<u>ALLOWANCE FIGURES</u>
Alternate #1: Performance/Payment Bond		\$
ADD	DOLLARS	
Alternate #2:		\$
ADD/DEDUCT	DOLLARS	

VOLUNTARY ALTERNATES: The following Alternate(s) to Base Bid(s) are voluntary to be offered by the respective Bidders. In the event the Voluntary Alternate is accepted, Bidder agrees to perform all Work necessary to complete the Work as modified by the Voluntary Alternate in full accordance with the Contract Documents, for the following add or deduct from the Base Bid as indicated: (show amounts in both written words and numeric figures for Alternates. In case of discrepancy, amount shown in written words shall govern). Bidder is required to submit sufficient detailed information to fully describe each voluntary Alternate(s) on a separate sheet(s) attached to this Bid Proposal form. Bidders are encouraged to provide voluntary alternates that provide additional value or savings to the Village.

UNIT PRICES: The following Unit Prices to Base Bid Categories are required to be offered by the respective Bidders. Bidder agrees that the following amounts will be used in determining contract changes from the Base Bid for authorized Changes in the Work. Bidder shall not include these unit costs in the Base Bid amount(s). All unit prices shall include Bidder's mark-up for overhead and profit.

1.	Spray Applied Fireproofing	\$	/SF
2.	Include Labor and Equipment Rates On Separate Sheet.	\$	/
3.		\$	/

QUANTITIES: Bidders are required to submit the following quantities. Quantities will be used for the purpose of evaluating bids. Subcontractors will be responsible to provide the appropriate amount of material(s) necessary to complete the work regardless of the quantities listed below.

1.	Spray Applied Fireproofing	SF
2.	Total Labor Hours	HRS
3.	Submittal Lead Time	DAYS

4. Material Lead Time

_____ DAYS

PLEASE NOTE: ALL BLANKS MUST BE FILLED IN OR YOU MAY BE DEEMED NON-RESPONSIVE

Labor/Equipment Rates: The bidder shall provide as a part of his proposal straight time and premium time labor rates for all classifications of trades people and equipment involved with the performance of the work required by this Bid Category. Rates are to include all payroll taxes, insurance fringes, overhead, and profit etc for a complete unit price and shall remain valid for the term of the contract. Rates are to be composite rates showing the cost for each of the components making up the hourly rate items

As of the date of submission of the Bid Proposal, Bidder's worker's compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____.

As of the date of submission of the Bid Proposal, Erector (if erector is to sub-tier subcontractor to Bidder) compensation Experience Modification Rate (EMR) for the state in which the Work is to be performed is _____. _____.

Bidder understands that the Owner /Leopardo Companies Inc. reserve the right to reject any or all Bid Proposals and to waive any informalities or irregularities therein.

Bidder acknowledges receipt of the following Addenda (identify no. and date of each): _____

Bidder accepts the provisions of the Bidding and Contract Documents and certifies that this Bid Proposal is submitted in good faith and without collusion with any other person or entity submitting a Bid Proposal for the Work. [If Bidder is required to be licensed in the state where the work is performed add "Bidder certifies that it meets all licensing requirements of the state in which work is to be performed, its current license number and classification are as follows: _____"] Bidder hereby affixes its authorized signature(s) representing (check one):

- _____ An individual doing business as _____
 _____ A partnership
 _____ A limited liability company, organized in _____ (enter state)
 _____ A corporation, organized in _____ (enter state)
 _____ Joint venture formed between _____ and _____

(Signature from authorized representatives of each partner are required)

Signature(s): _____

Title: _____

Name of firm: _____

Business address: _____

Telephone no.: () _____

ATTACHMENTS (REQUIRED):

- _____ Bid Bond or Cashier's Check (10% of Base Bid)
 _____ Labor & Machine Rate Sheet (Use Subcontractor's Own Form)

_____ Subcontractor Qualification Form (Section 00440 in Project Manual Vol.1)
_____ Signed Copy Prime Contractor Certification Form (Section 00430 in Project Manual Vol.1)

END OF SECTION 00400.212

**SECTION 00 91 05
BP #2 - ADDENDUM NUMBER 2**

DATE: **NOVEMBER 2, 2018**

PROJECT: **WILL COUNTY HEALTH DEPARTMENT - NEW HEALTH DEPARTMENT
BUILDING
501 ELLA AVENUE
JOLIET, ILLINOIS 60433**

PROJECT NO: **17-401-1124**

OWNER: **THE COUNTY OF WILL
302 NORTH CHICAGO STREET
JOLIET, ILLINOIS 60432**

TO: **PROSPECTIVE BIDDERS / PLANHOLDERS OF RECORD**

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents For Bid Package #2 dated 10/23/2018, with amendments and additions noted below. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Three (3) pages and Drawings A330, A602, A701, A1000, A1001, S322, S400, S401, S500, S510, S600, & S601.

CHANGES TO SPECIFICATIONS

1.01 SECTION 07 53 00.02 - ELASTOMERIC MEMBRANE ROOFING

A. Under Article 3.03 VAPOR RETARDER AND INSULATION - UNDER MEMBRANE:

1. Delete Paragraph A1-A4 and replace with the following:
"A. Apply vapor retarder to deck surface with adhesive in accordance with manufacturer's instructions. Vapor Retarder shall be installed over metal decking and concrete roof decking surfaces."
 - a. "1. Extend Vapor retarder under perimeter blocking, past decking edge and up baskside face of parapets top of insulation."
 - b. "2. Extend vapor retarder up outside faces of roof curbs to level of top surface of roof insulation. Seal top edge of vapor retarder to roof curb surfaces."
 - c. "3. Install flexible flashing from vapor retarder to air seal material of wall construction, lap and seal to provide continuity of the air barrier plane."
 - d. "4. Seal vapor retarder to roof drain bodies and other roof deck penetrations."

CHANGES TO THE DRAWINGS

2.01 DRAWING A330 - ROOF PLAN

- A. Detail 1/A330: Revised the Bottom of Deck elevation tags of the west and northeast entrance canopies to coordinate with the building sections and structural details. See revision Cloud 7.

2.02 DRAWING A602 - BUILDING SECTIONS

- A. Detail 3/A602: Updated Column Reference 7 location and added the exterior stoop graphic section.

2.03 DRAWING A701 - EXTERIOR BUILDING ELEVATIONS

- A. Detail 2/A701 - South Elevation - East End: Removed the brick masonry hatching from the window right of column line Y as clouded.

2.04 DRAWING A1000 - PLAN DETAILS

- A. Details 14 & 15/A1000: Added batt insulation at interior stud walls as indicated. See revision Cloud 7.

2.05 DRAWING A1001 - PLAN DETAILS

- A. Details 2 & 3/A1001: Added batt insulation at interior stud wall around typical steel columns as indicated. See revision Cloud 7.

2.06 DRAWING S322 - PARTIAL SECOND FLOOR FRAMING PLAN - AREA 'B'

- A. Delete drawing in its entirety and replace with drawing number S322 (attached). Refer to revision cloud 7 for specific changes.

2.07 DRAWING S400 - FOUNDATION SECTIONS AND DETAILS

- A. Delete drawing in its entirety and replace with drawing number S400 (attached). Refer to revision cloud 7 for specific changes.

2.08 DRAWING S401 - PIER DETAILS AND SECTIONS

- A. Delete drawing in its entirety and replace with drawing number S401 (attached). Refer to revision cloud 7 for specific changes.

2.09 DRAWING S500 - STANDARD FLOOR FRAMING SECTIONS AND DETAILS

- A. Delete drawing in its entirety and replace with drawing number S500 (attached). Refer to revision cloud 7 for specific changes.

2.10 DRAWING S510 - FLOOR FRAMING SECTIONS AND DETAILS

- A. Delete drawing in its entirety and replace with drawing number S510 (attached). Refer to revision cloud 7 for specific changes.

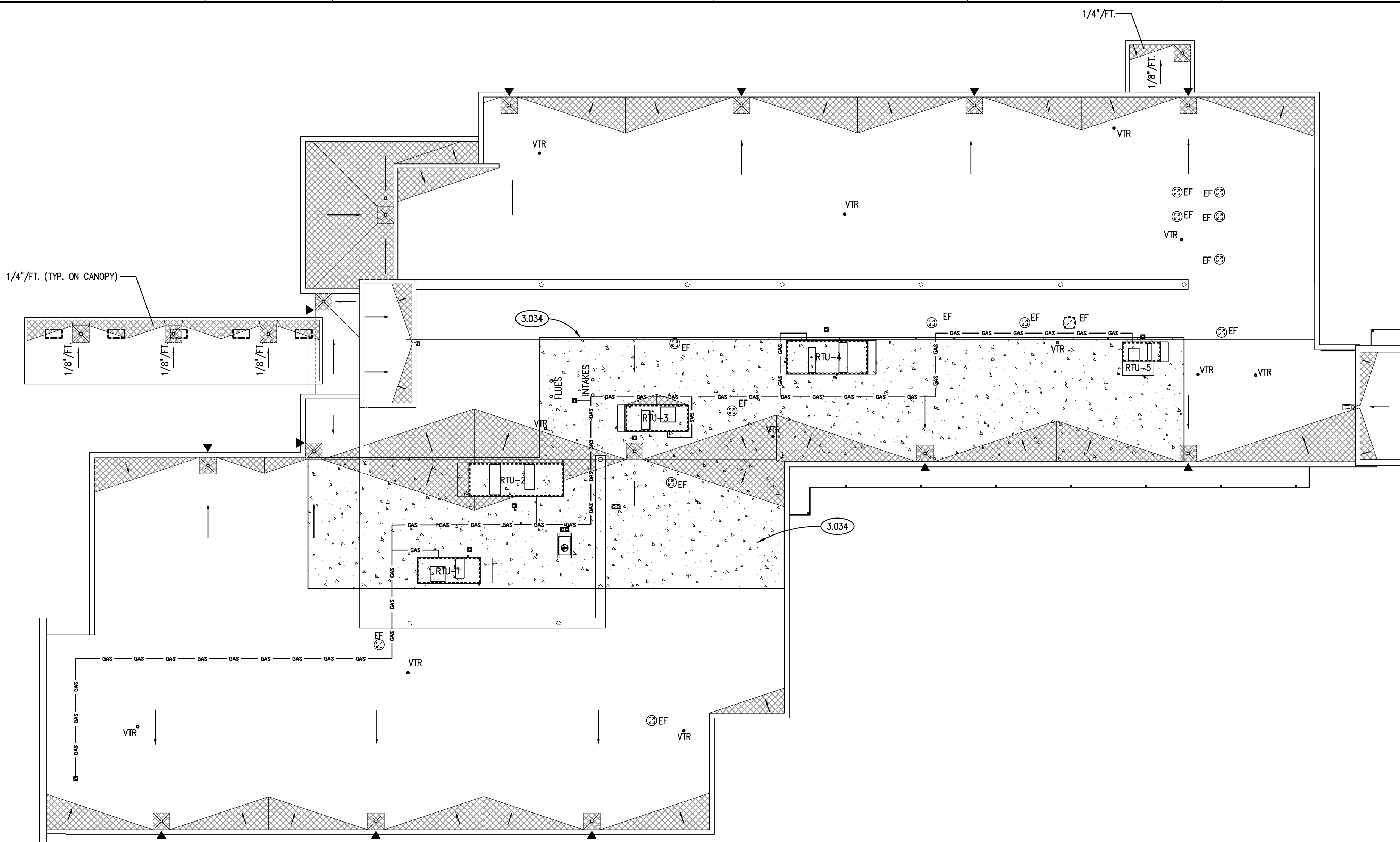
2.11 DRAWING S600 - STANDARD ROOF FRAMING SECTIONS AND DETAILS

- A. Delete drawing in its entirety and replace with drawing number S600 (attached). Refer to revision cloud 7 for specific changes.

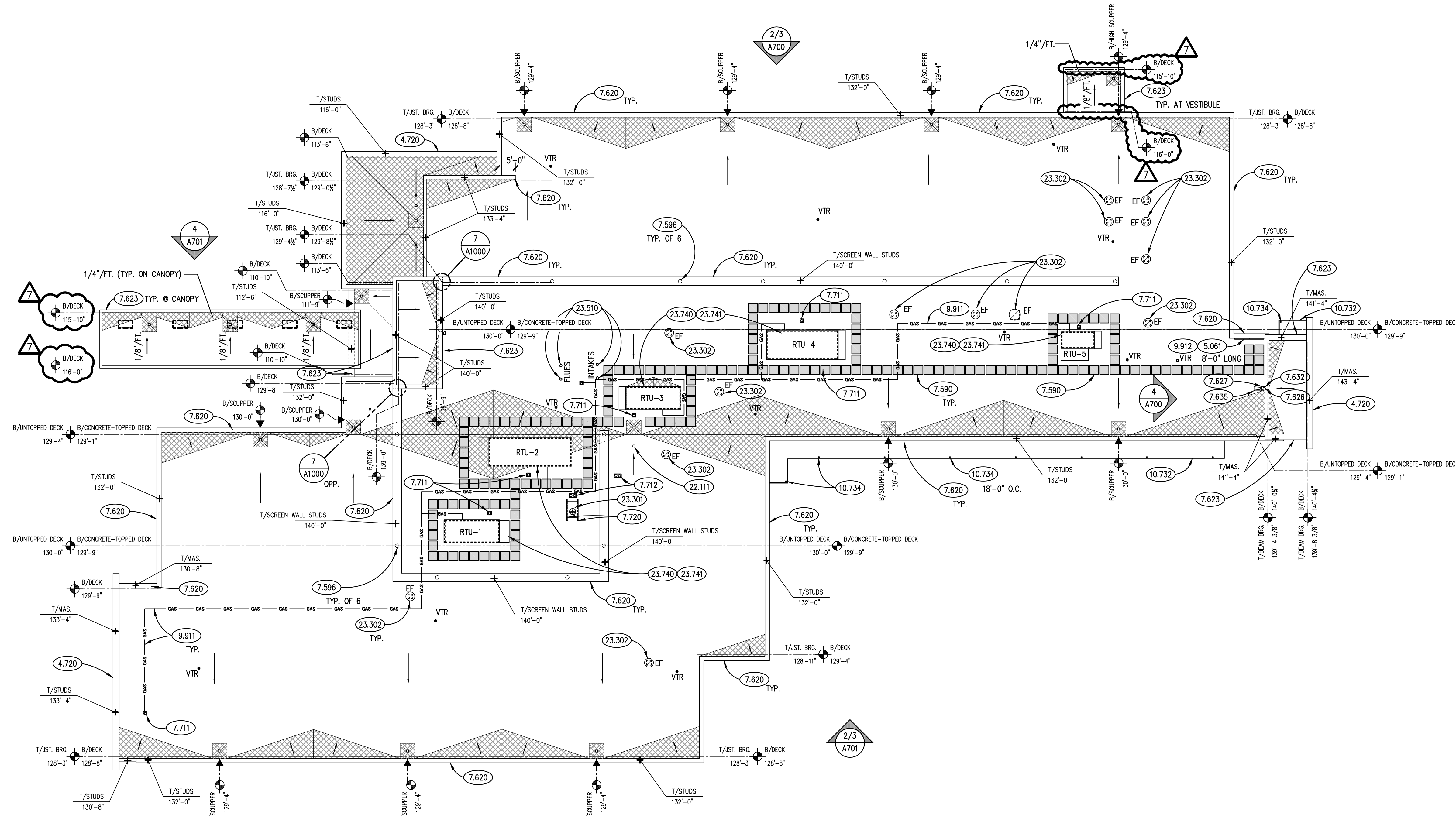
2.12 DRAWING S601 - MOMENT CONNECTION DETAILS

- A. Delete drawing in its entirety and replace with drawing number S601 (attached). Refer to revision cloud 7 for specific changes.

END OF DOCUMENT



ROOF CONCRETE PLAN ②
SCALE: 1/16" = 1'-0"



ROOF PLAN ①
SCALE: 1/16" = 1'-0"

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 3.034 CAST-IN-PLACE CONCRETE: ELEVATED TOPPING SLAB; REFER TO STRUCTURAL DRAWINGS; ADHERE ROOF INSULATION TO ROOF DECK IN THIS AREA.
- 4.720 CAST STONE MASONRY: COPING; SIZE AND CONFIGURATION AS INDICATED; PROVIDE CAST DRIP AT ALL OVERHANG EDGES. SLOPE TOP TO DRAIN WATER AS SHOWN. RAKE OUT MORTAR AND PROVIDE BOND BREAKER AND JOINT SEALANT AT ALL HEAD JOINTS.
- 5.061 METAL FABRICATION: STEEL GUARD RAIL ASSEMBLY; 1-1/2" NOM. DIA. STEEL PIPE POSTS AND TOP RAIL AND MID RAIL; GALVANIZED; REFER TO SPECIFICATIONS.
- 7.530 ELASTOMERIC MEMBRANE ROOFING SYSTEM; FULLY ADHERED.
- 7.535 ELASTOMERIC MEMBRANE ROOFING MATERIAL: ROOF INSULATION; TAPERED; 1/2" PER FOOT SLOPE U.N.O.
- 7.590 ROOFING ACCESSORY: RUBBER WALKWAY PADS.
- 7.596 ROOFING ASSEMBLY: FLASH SCREEN WALL POST THROUGH ROOF IN ACCORDANCE WITH ROOFING MANUFACTURER'S INSTRUCTIONS AND WITH NRCA LOW SLOPE ROOFING DETAIL EPDM-11 OR DETAIL EPDM-19.
- 7.620 METAL COPING FLASHING: THICKNESS AND FINISH AS SPECIFIED.
- 7.623 METAL ROOF EDGE FLASHING: MATERIAL, THICKNESS AND FINISH AS SPECIFIED.
- 7.625 OVERFLOW SCUPPER: 6"W X 6"H; CONSTRUCT IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL FIGURE 1-30.
- 7.626 SCUPPER THROUGH WALL: 8"W X 8"H; CONSTRUCT IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL FIGURE 1-26.
- 7.627 CONDUCTOR HEAD; CONSTRUCT IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL FIGURE 1-25F.
- 7.632 METAL DOWNSPOUT; MATERIAL, THICKNESS AND FINISH AS SPECIFIED.
- 7.635 METAL DOWNSPOUT ACCESSORY: PRECAST CONCRETE SPLASH PAD.
- 7.711 ROOF SPECIALTY: SINGLE PORT ROOF PORTAL WITH RUBBER BOOT AND CLAMPING RING.
- 7.712 ROOF SPECIALTY: MULTIPLE PORT ROOF PORTAL WITH RUBBER BOOT AND CLAMPING RING.
- 7.720 ROOF SPECIALTY: PREFABRICATED EQUIPMENT RAIL; WITH 2X WOOD NAILER AND 20 GA. GALVANIZED SHEET STEEL CAP; 3/8" WIDTH X LENGTH PER EQUIPMENT REQUIREMENTS.
- 9.911 EXTERIOR PAINTING: ONE PRIME COAT AND TWO TOPCOATS ENAMEL PAINT ON ALL ROOF GAS PIPING AND VALVING - SAFETY YELLOW COLOR.
- 9.912 EXTERIOR PAINTING: ONE PRIME COAT AND TWO TOPCOATS ENAMEL PAINT ON GUARD RAIL; COLOR AS SELECTED BY OWNER.
- 10.732 METAL CANOPY: PREFINISHED WITH SUPPORT ROOFS. REFER TO SPECIFICATIONS.
- 10.734 METAL CANOPY ACCESSORY: SCUPPER OPENING FOR DRAINAGE AT SPACING LOCATIONS SHOWN ON THE ROOF PLAN.
- 22.110 PLUMBING PIPING SPECIALTY: ROOF DRAIN; REFER TO PLUMBING DRAWINGS.
- 22.111 PLUMBING PIPING SPECIALTY: OVERFLOW DRAIN; REFER TO PLUMBING DRAWINGS.
- 23.301 MECHANICAL EQUIPMENT: REFER TO MECHANICAL DRAWINGS.
- 23.302 MECHANICAL EQUIPMENT: EXHAUST HOOD; REFER TO MECHANICAL DRAWINGS.
- 23.510 MECHANICAL EQUIPMENT CHIMNEY: PREFABRICATED; REFER TO MECHANICAL DRAWINGS.
- 23.740 MECHANICAL ROOFTOP UNIT: REFER TO MECHANICAL DRAWINGS; COORDINATE STEEL SUPPORT WITH MANUFACTURER; MAX. WEIGHT TO BE AS NOTED IN M.E.P. SCHEDULES.
- 23.741 MECHANICAL ROOFTOP UNIT ACCESSORY: PREFABRICATED INSULATED ROOF CURB.

ROOF PLAN LEGEND

- 7.530 (ALL ROOF AREAS)
- 7.535
- DIRECTION OF WATER FLOW:
1/4" / FT. (MIN.) UNLESS NOTED OTHERWISE
- 22.110
- 7.590
- 7.625

GENERAL NOTES

- REFER TO DRAWING G200 FOR PROJECT GENERAL NOTES.
- REFER TO A700 SERIES DRAWINGS FOR COORDINATION OF HORIZONTAL LOCATIONS OF OVERFLOW SCUPPERS.
- PROVIDE PREFABRICATED CURBS AND RAILS FOR MECHANICAL UNITS AND DUCTWORK SHOWN ON THIS DRAWING AND ON MECHANICAL DRAWINGS. COORDINATE TYPE WITH ROOFING ACCESSORY AND MECHANICAL EQUIPMENT SPECIFICATIONS.
- ROOFING CONTRACTOR PROVIDE BOOTED ROOF PORTALS FOR ELECTRICAL CONDUIT, REFRIGERATION PIPING, GAS PIPING, CONDENSATE PIPING, AND HYDRONIC PIPING OUTSIDE ROOF CURBS TO MECHANICAL UNITS AND REMOTE CONDENSER UNITS. COORDINATE WITH MECHANICAL DRAWINGS.
- ROOFING CONTRACTOR TO PROVIDE STACK BOOTS ON MECHANICAL AND PLUMBING VENTS.
- PAINTING CONTRACTOR TO PRIME AND TWO COAT ENAMEL PAINT ON ALL EXPOSED GAS PIPING; SAFETY YELLOW FOR HORIZONTAL RUNS ON ROOFTOP.
- VENTS THRU ROOF ARE DIAGRAMMATIC ONLY AND WILL BE SUBJECT TO REVISION IN BID PACKAGE #3. IN ADDITION TO QUANTITIES SHOWN ON THIS SHEET, BID QUANTITY (8) ADDITIONAL FLASHING INSTALLATIONS FOR VENTS THRU ROOF WITH ROOFING BASE BID SCOPE.

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 3.030 CAST-IN-PLACE CONCRETE: REFER TO STRUCTURAL DRAWINGS.
- 7.421 METAL WALL PANEL SYSTEM COMPONENT: METAL WALL PANEL; PREFINISHED STEEL; REFER TO SPECIFICATIONS.
- 9.510 ACOUSTICAL CEILING PANELS AND GRID. REFER TO A900 SERIES DRAWINGS AND SPECIFICATIONS.
- 23.301 MECHANICAL EQUIPMENT: REFER TO MECHANICAL DRAWINGS.

ISSUED		JOB NO.	
1	10/11/18	B.P. #1 - SUBMITTAL #1	17-401-1124
2	10/11/18	B.P. #1 - ADDENDUM #1	
3	10/01/18	B.P. #1 - ADDENDUM #3	
4	10/23/18	B.P. #2 - MISC. ST./L. STRUCT. ENCL.	
5	10/23/18	B.P. #2 - MISC. ST./L. FIREPROOFING COMMENTS	
6	10/23/18	B.P. #2 - ADDENDUM #1	
7	11/02/18	B.P. #2 - ADDENDUM #2	

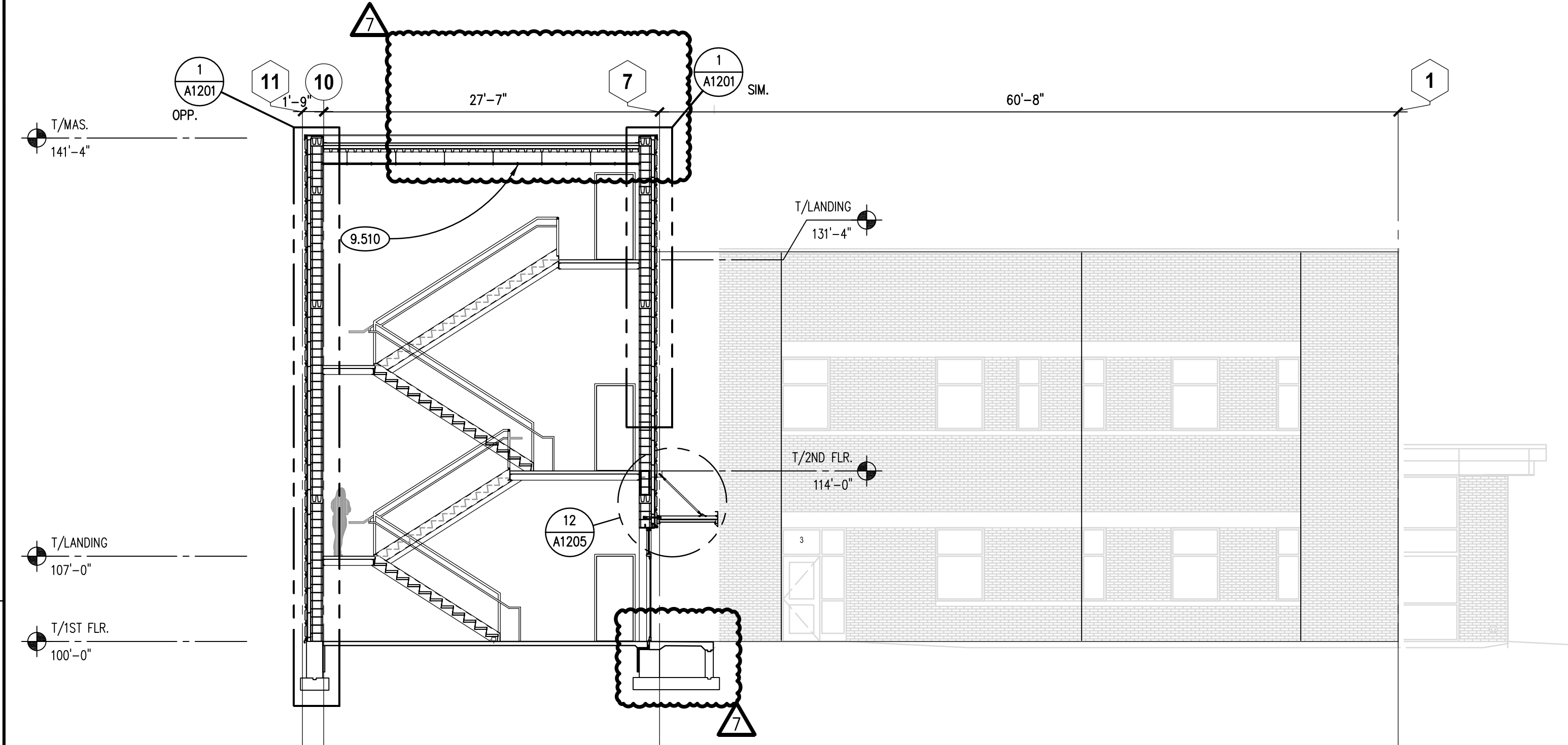
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APPROVED	CJH

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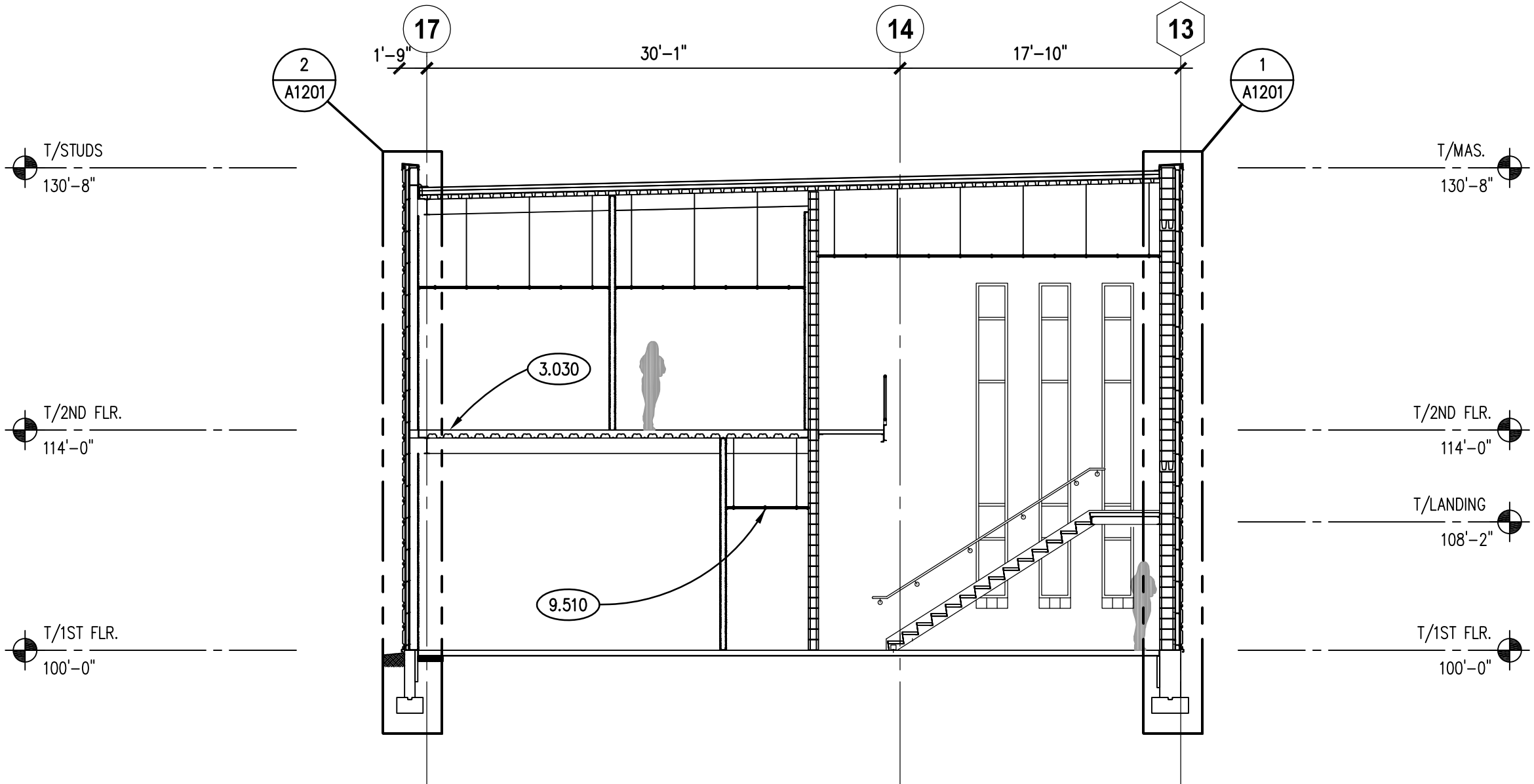
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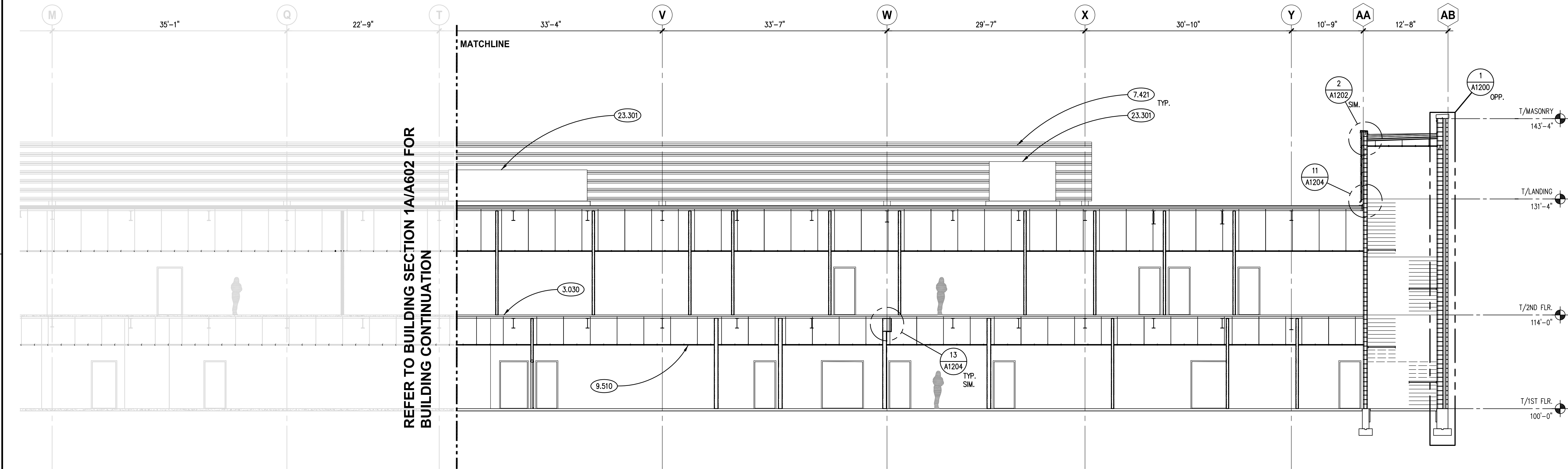
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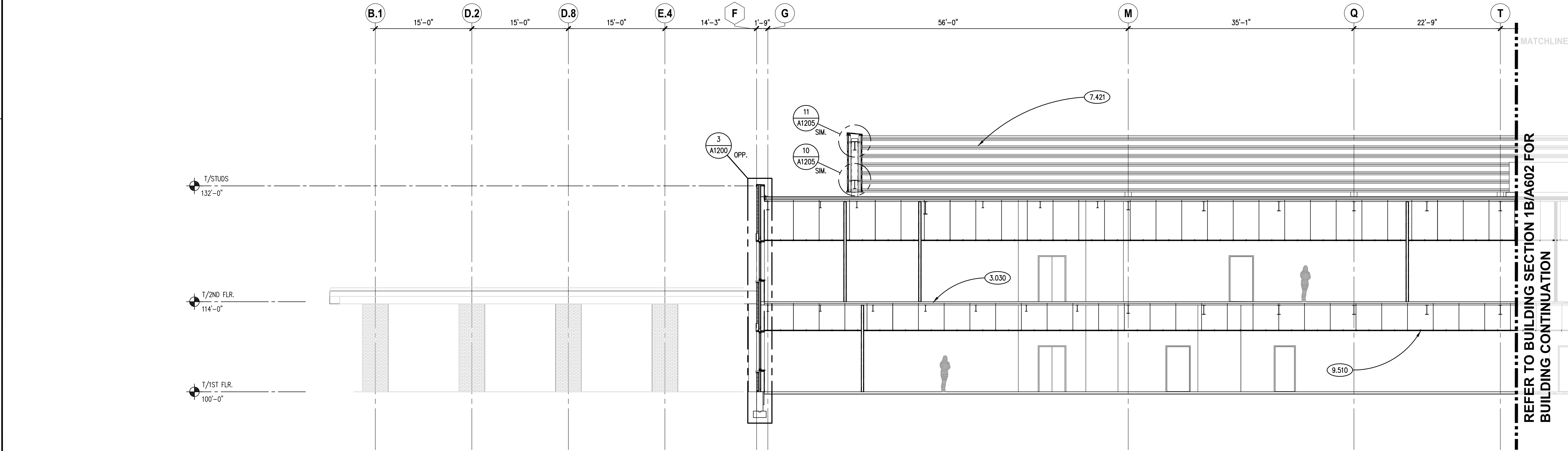
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BUILDING SECTION 2
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BUILDING SECTION 1B
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BUILDING SECTION 1A
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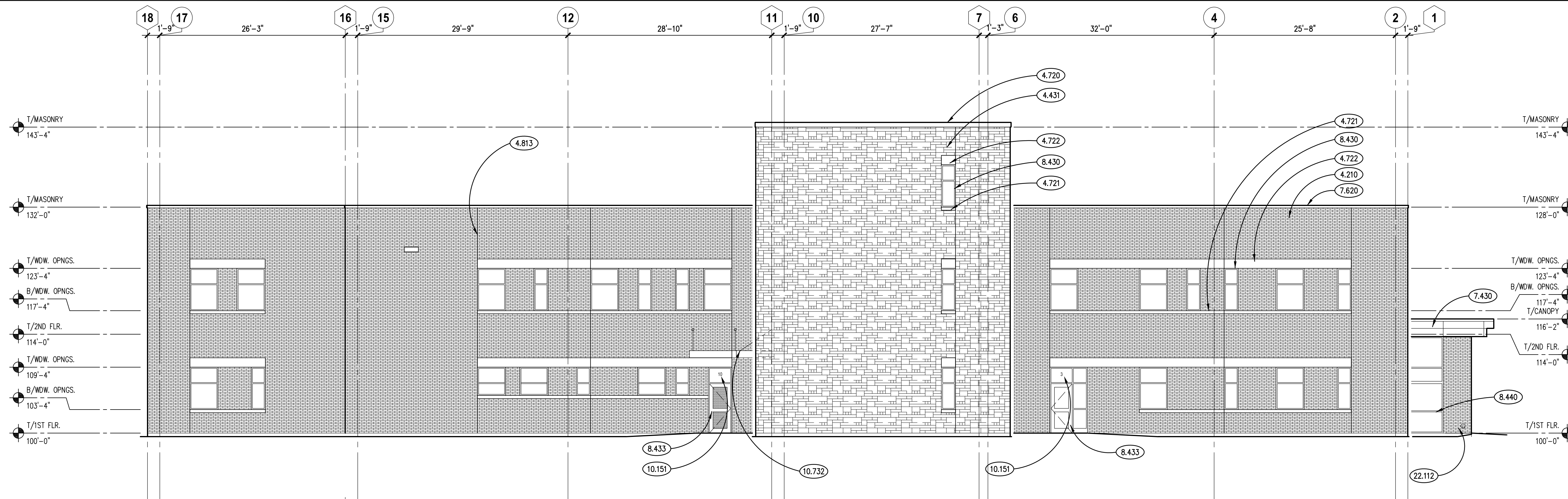
GENERAL NOTES

- REFER TO DRAWING G200 FOR PROJECT GENERAL NOTES.
- COORDINATE FIRE RATED ASSEMBLIES INFORMATION CONTAINED ON DRAWING G301 & G302 WITH THE WORK OF ALL CONTRACTS.
- APPLY FIREPROOFING TO STRUCTURAL STEEL COLUMNS AND BEAMS SUPPORTING FIRE RESISTANCE RATED ASSEMBLIES. COORDINATE WITH FIREPROOFING SCHEDULE AND STRUCTURAL STEEL DRAWINGS.
- IN METAL STUD/GYPSUM BOARD PARTITIONS AND WALLS, PROVIDE 2X FIRE RETARDANT TREATED WOOD BLOCKING FOR WALL-MOUNTED & CEILING-MOUNTED ITEMS REQUIRING MECHANICAL ANCHORAGE.

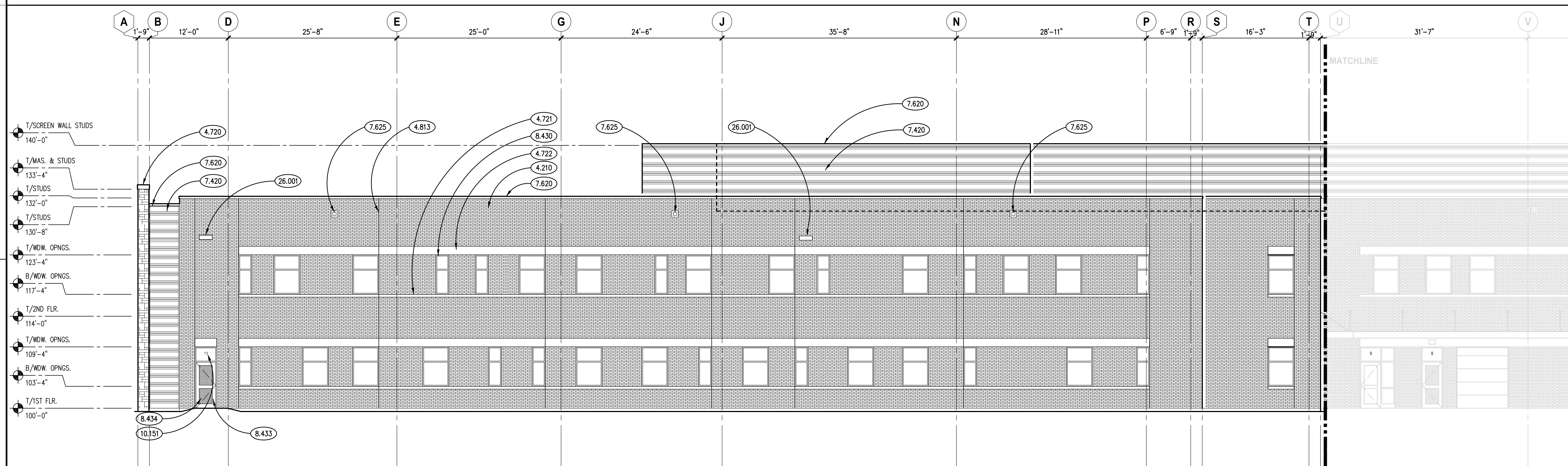
KEYNOTES

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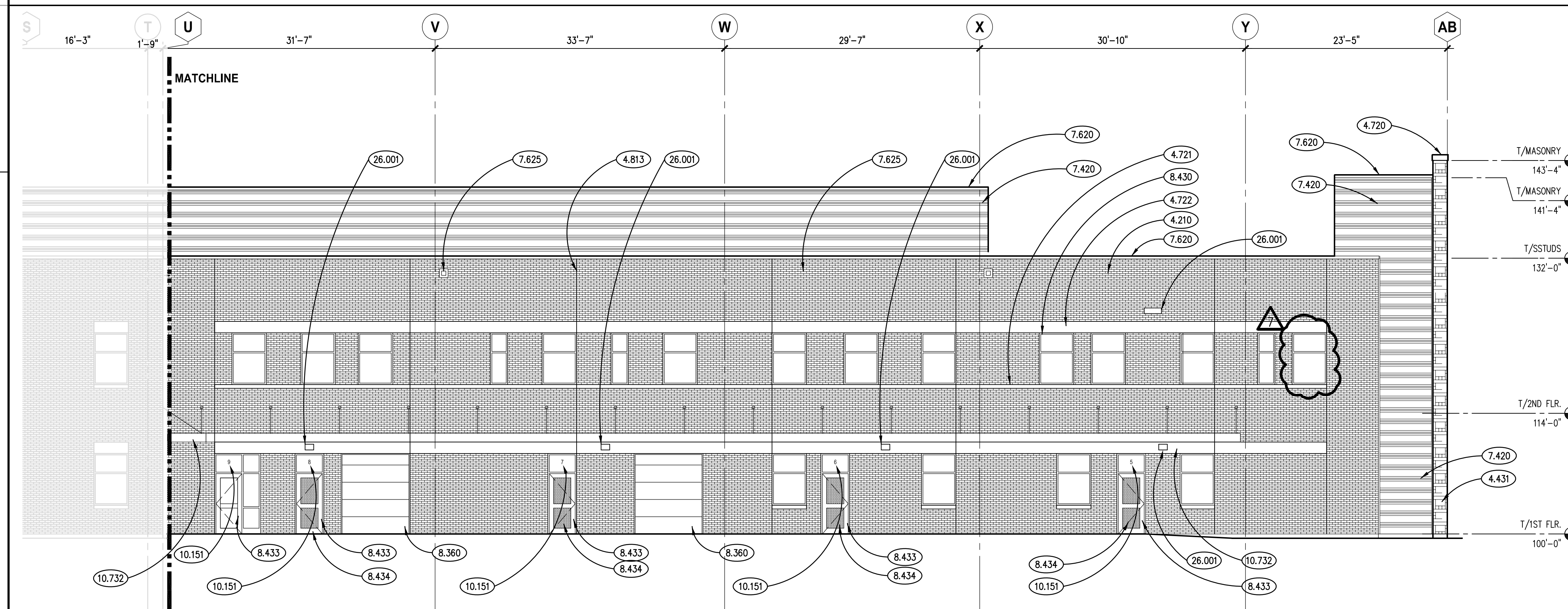
- 4.210 BRICK MASONRY VENEER: MODULAR; RUNNING BOND; REFER TO SPECIFICATIONS.
 4.431 STONE MASONRY VENEER: ASHLAR TYPE "SMV-1"; REFER TO SPECIFICATIONS.
 4.720 CAST STONE MASONRY: COPING; SIZE AND CONFIGURATION AS INDICATED; PROVIDE CAST DRIP AT ALL OVERHANG EDGES. SLOPE TOP TO DRAIN WATER AS SHOWN. RAKE OUT MORTAR AND PROVIDE BOND BREAKER AND JOINT SEALANT AT ALL HEAD JOINTS.
 4.721 CAST STONE MASONRY: SILL COURSE; SIZE AND CONFIGURATION AS INDICATED; PROVIDE CAST DRIP AT ALL OVERHANG EDGES. SLOPE TOP TO DRAIN AS SHOWN. RAKE OUT MORTAR AND PROVIDE BOND BREAKER AND JOINT SEALANT AT ALL HEAD JOINTS.
 4.722 CAST STONE MASONRY: HEADER COURSE; SIZE AND CONFIGURATION AS INDICATED; PROVIDE CAST DRIP AT ALL OVERHANG EDGES. SLOPE TOP TO DRAIN AS SHOWN. RAKE OUT MORTAR AND PROVIDE BOND BREAKER AND JOINT SEALANT AT ALL HEAD JOINTS.
 4.813 MASONRY ASSEMBLY: BRICK MASONRY EXPANSION JOINT (TYPICAL).
 7.420 METAL WALL PANEL SYSTEM: PREFINISHED WITH CONCEALED FASTENERS. REFER TO SPECIFICATIONS.
 7.430 METAL COMPOSITE PANEL SYSTEM: PREFINISHED WITH CONCEALED FASTENERS. REFER TO SPECIFICATIONS.
 7.620 METAL COPING FLASHING: THICKNESS AND FINISH AS SPECIFIED.
 7.625 OVERFLOW SCUPPER: 6" W X 6" H; CONSTRUCT IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL FIGURE 1-30.
 8.360 SECTIONAL OVERHEAD DOOR: 8'-0" WIDE X 9'-4" TALL.
 8.430 ALUMINUM STOREFRONT FRAMING.
 8.433 ALUMINUM DOOR: REFER TO DOOR, FRAME AND BORROWED LIGHT SCHEDULE.
 8.434 ALUMINUM DOOR ACCESSORY: INSULATED METAL PANEL WITH HARBORBOARD BACKING AT LOCATIONS SHOWN. REFER TO SPECIFICATIONS.
 8.440 ALUMINUM CURTAIN WALL FRAMING.
 10.151 SIGNAGE: EXTERIOR VINYL APPLIED TO GLASS; DOOR NUMBER. 6 INCHES HIGH. TYPICAL AT ALL EXTERIOR DOOR OPENINGS.
 10.732 METAL CANOPY: PREFINISHED WITH SUPPORT RODS. REFER TO SPECIFICATIONS.
 22.112 PLUMBING PIPING SPECIALTY: DOWNSPOUT NOZZLE; REFER TO PLUMBING DRAWINGS.
 26.001 LIGHT FIXTURE: REFER TO ELECTRICAL DRAWINGS.



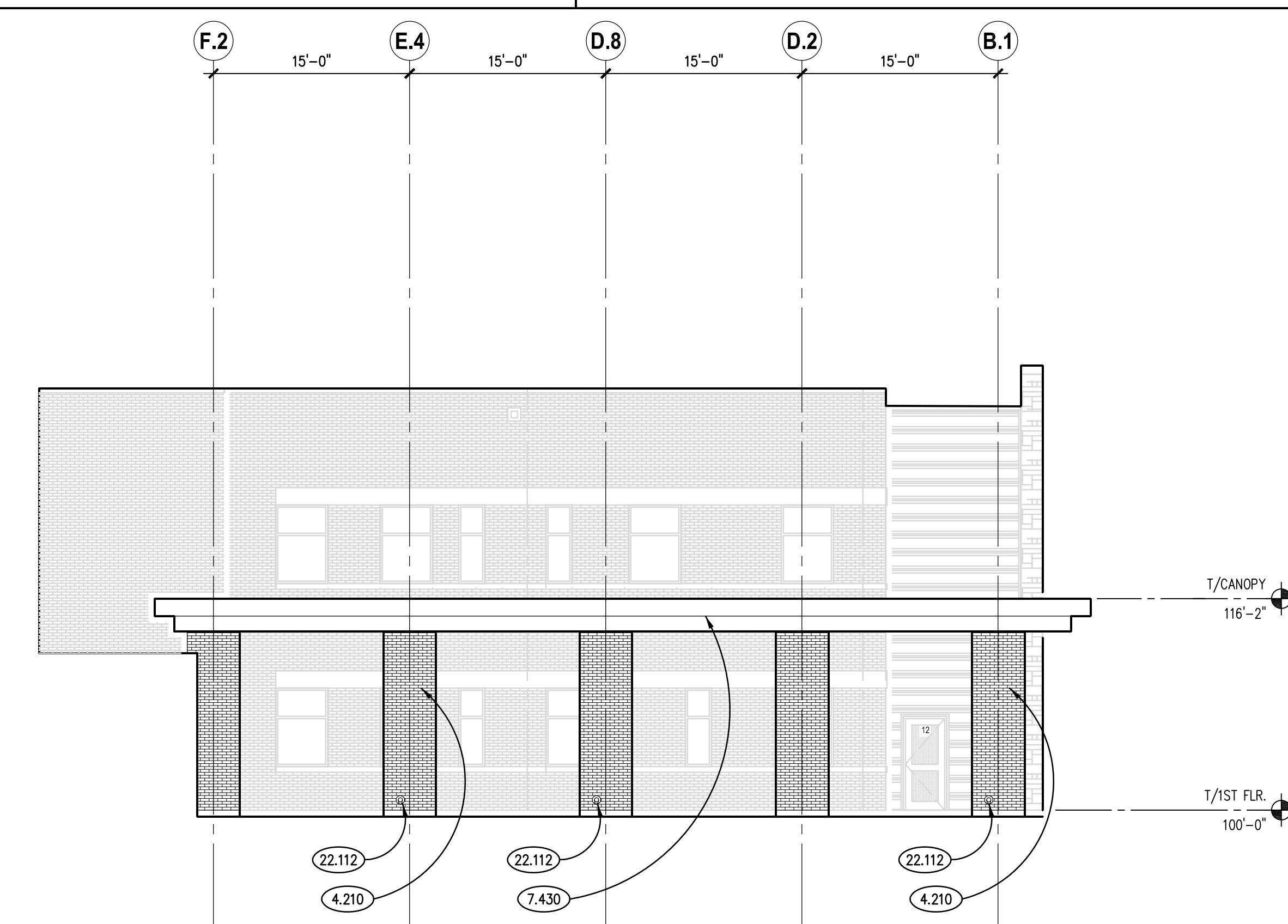
EAST ELEVATION
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SOUTH ELEVATION - WEST END
 SCALE: 1/8" = 1'-0"



SOUTH ELEVATION - EAST END
 SCALE: 1/8" = 1'-0"



PARTIAL NORTH ELEVATION - CANOPY
 SCALE: 1/8" = 1'-0"

ISSUED	DATE	BY	DESCRIPTION
1	10/10/18	B.P. #1	ISSUED FOR PERMIT
2	10/10/18	B.P. #1	ADDENDUM #1
3	10/23/18	B.P. #2	MISC. STYL. STRUCT. ENCL.
4	10/23/18	B.P. #2	PLUMBING REVIEW COMMENTS
5	10/23/18	B.P. #2	ELECTRICAL REVIEW COMMENTS
6	11/02/18	B.P. #2	ADDENDUM #2

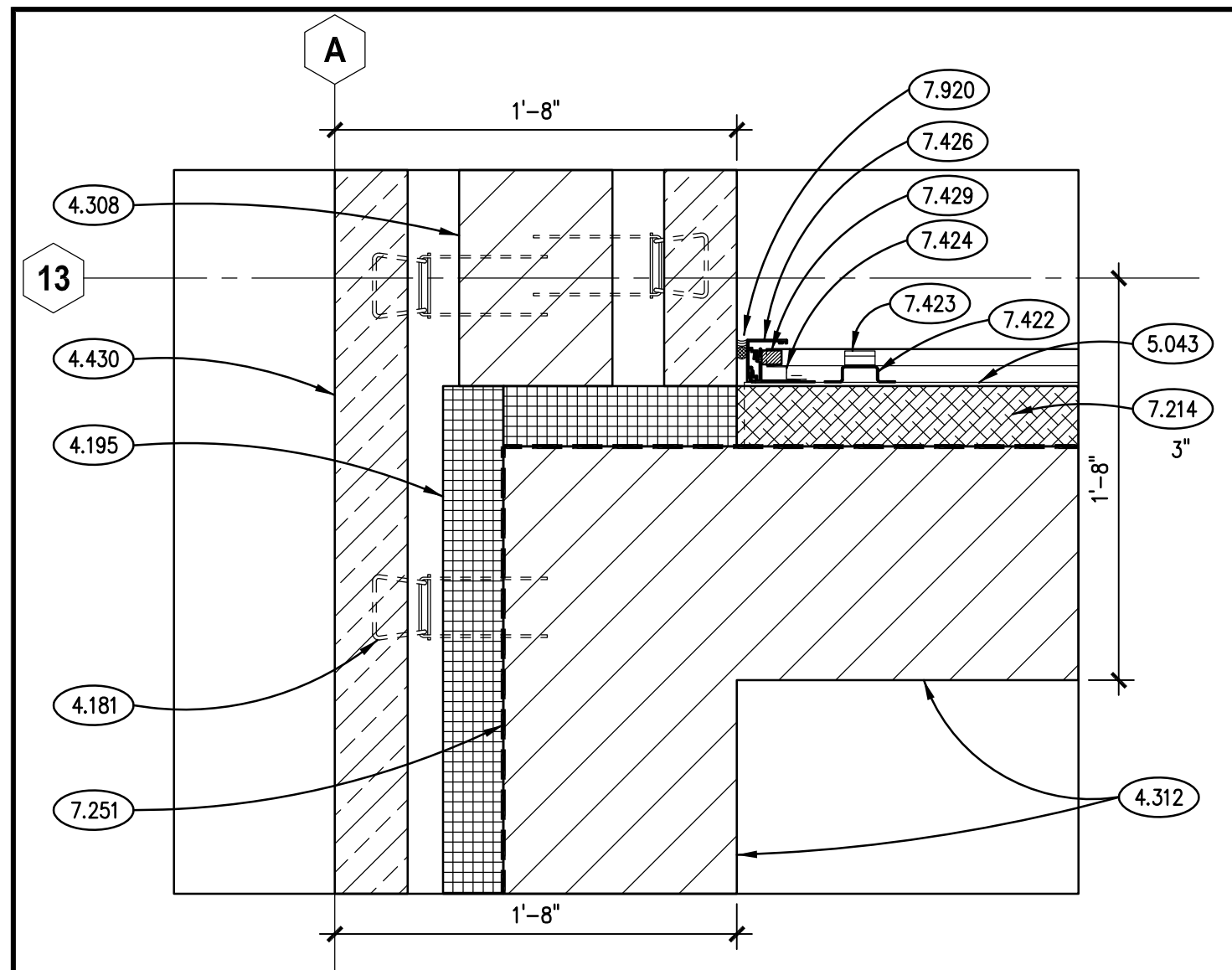
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DRAWN	CPA
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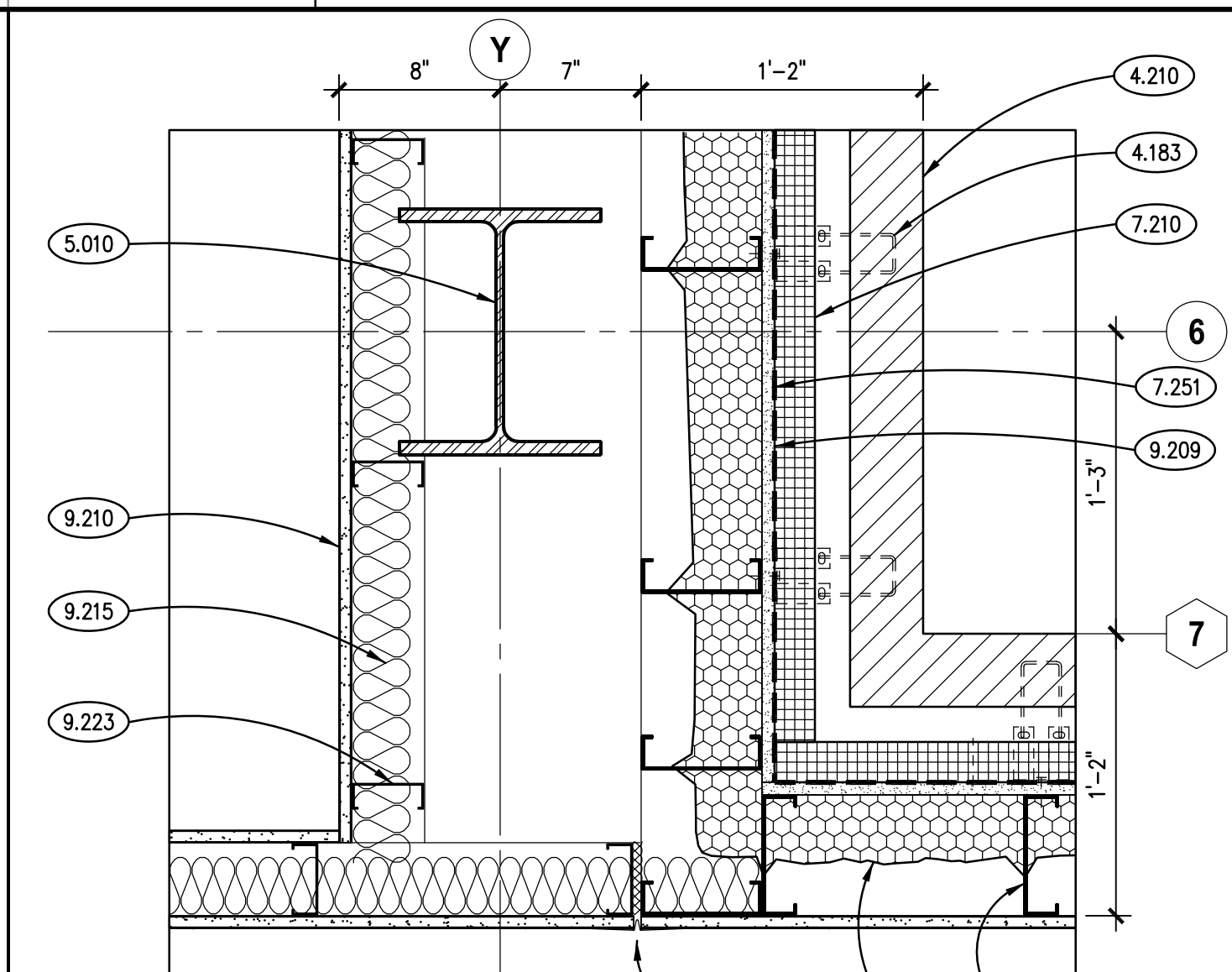
EXTERIOR BUILDING ELEVATIONS

SHEET NUMBER

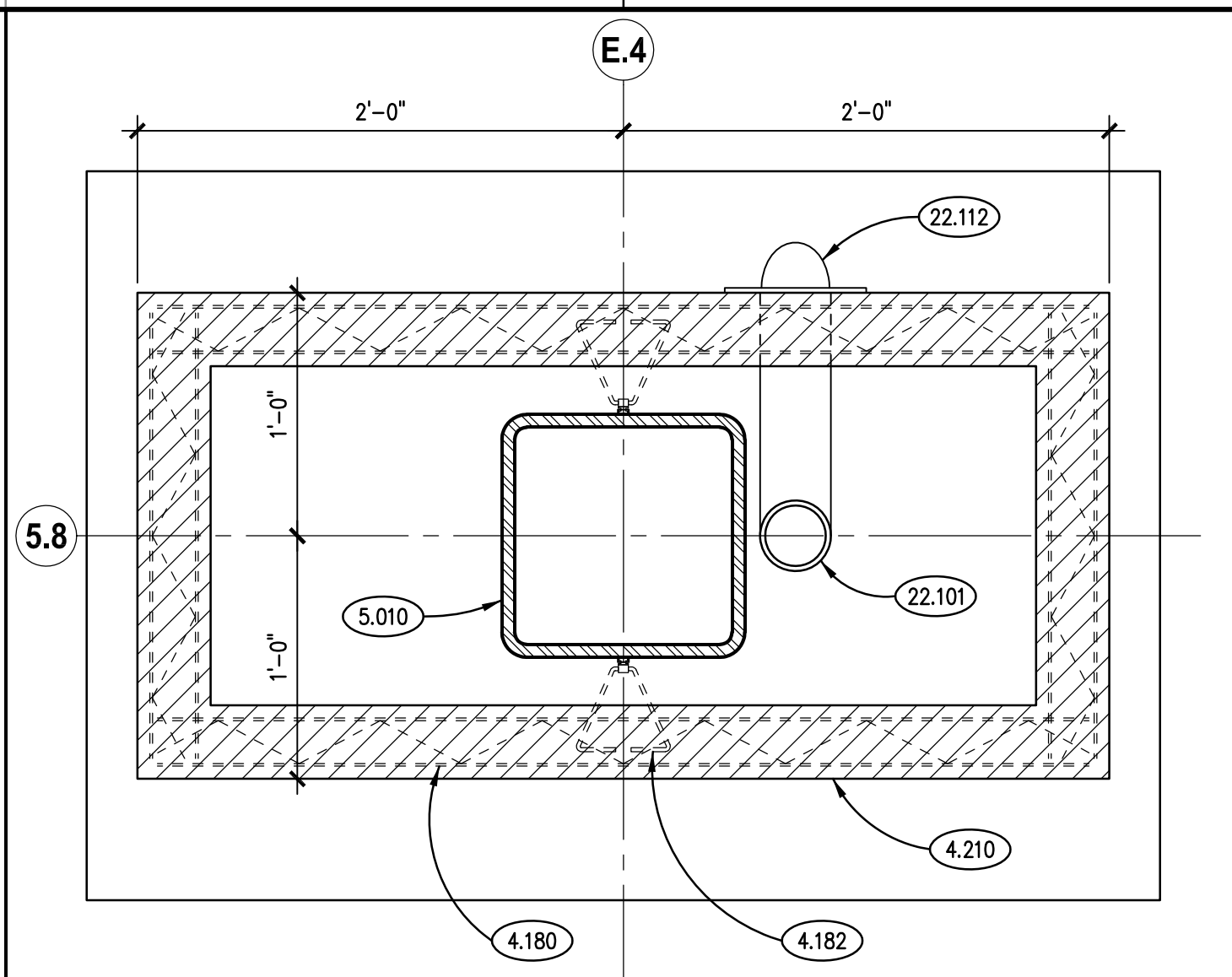
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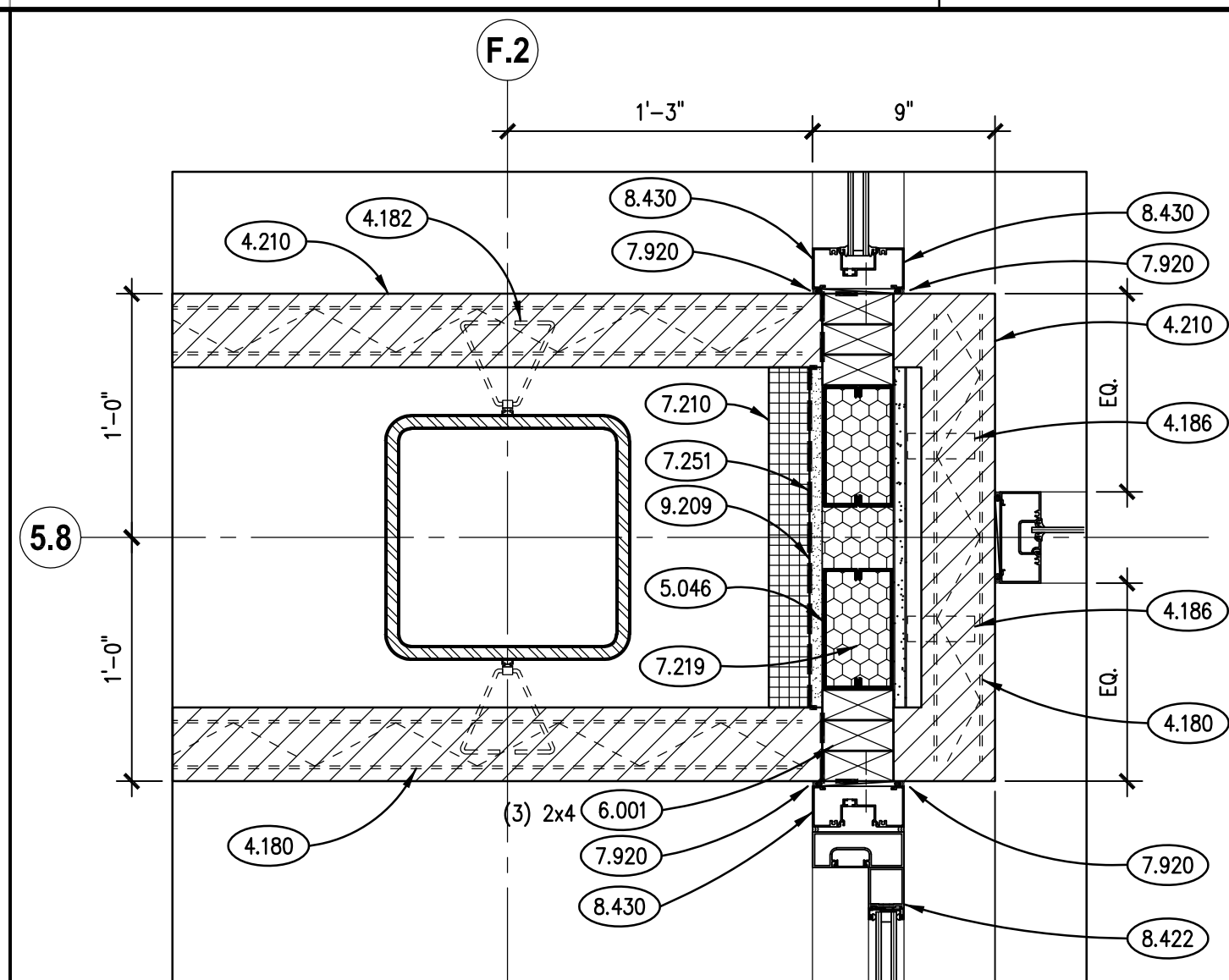
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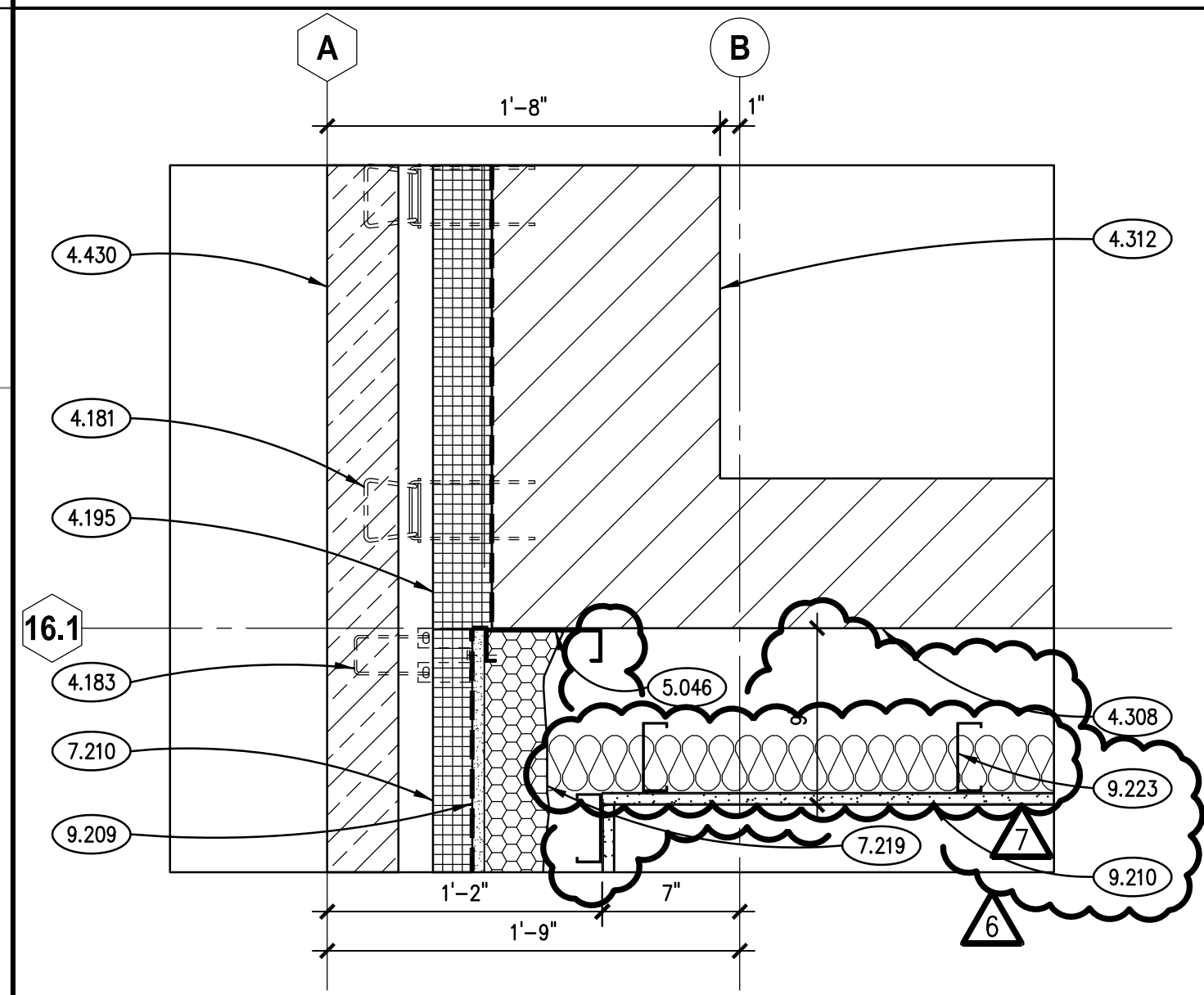
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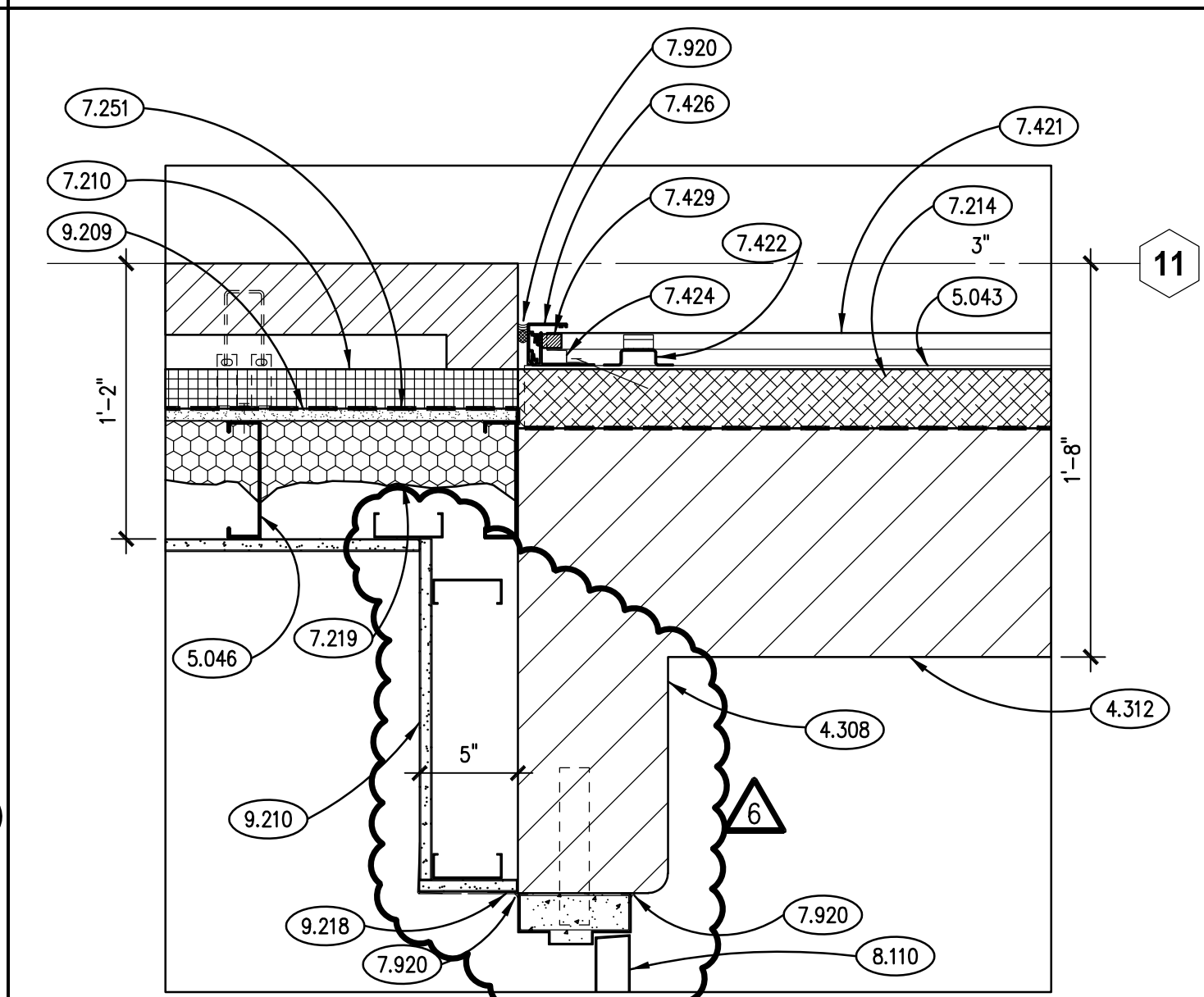
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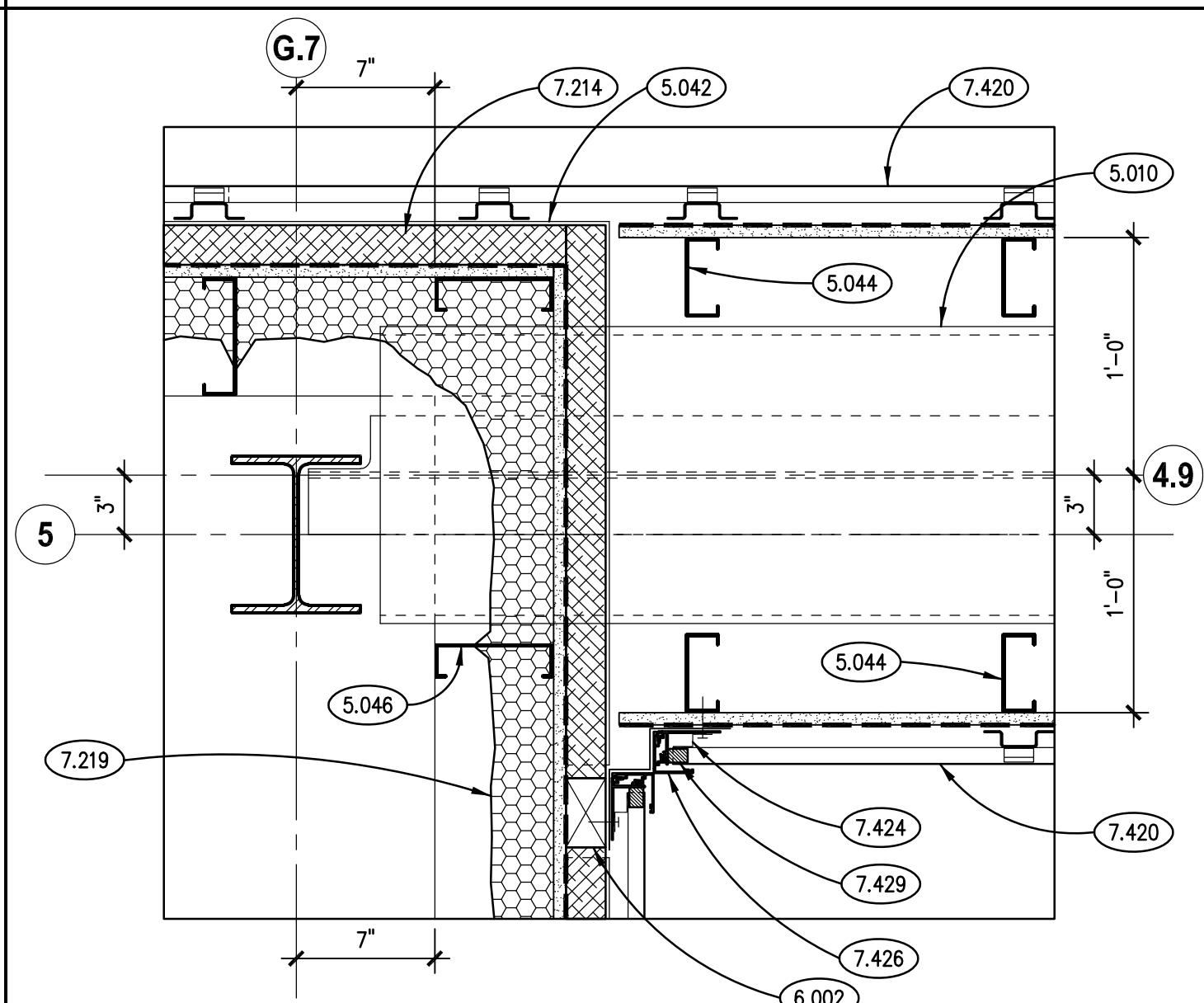
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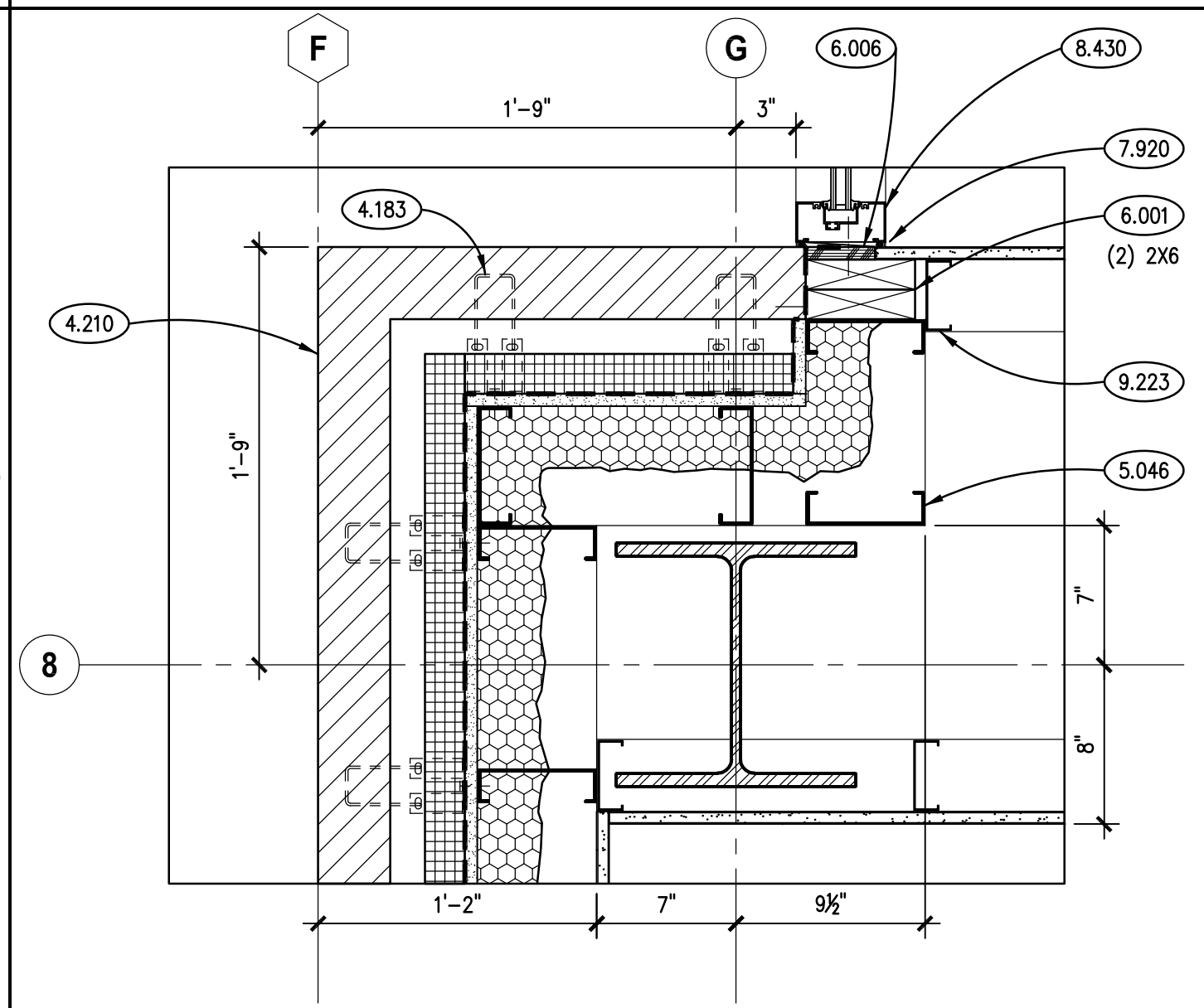
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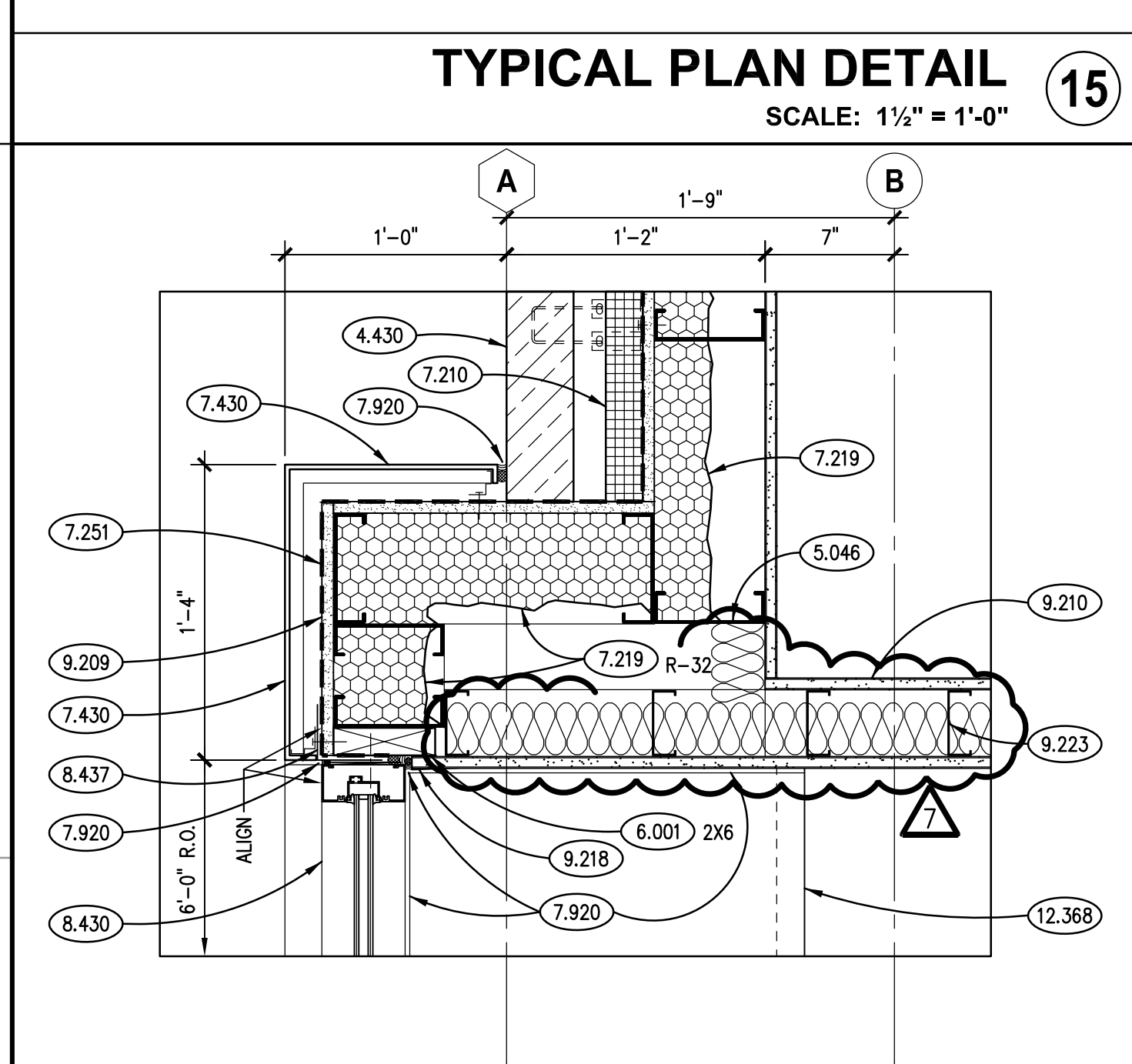
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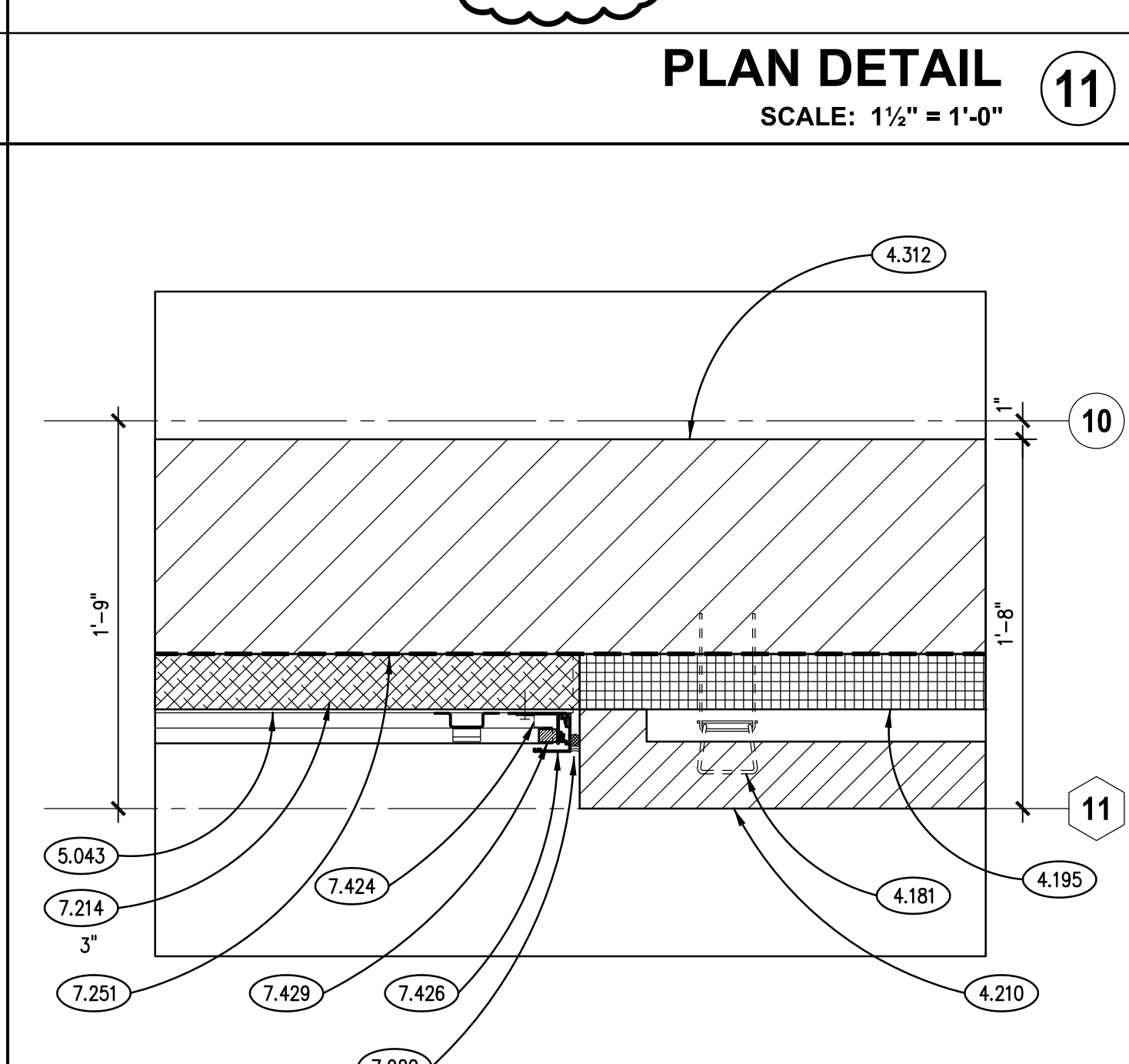
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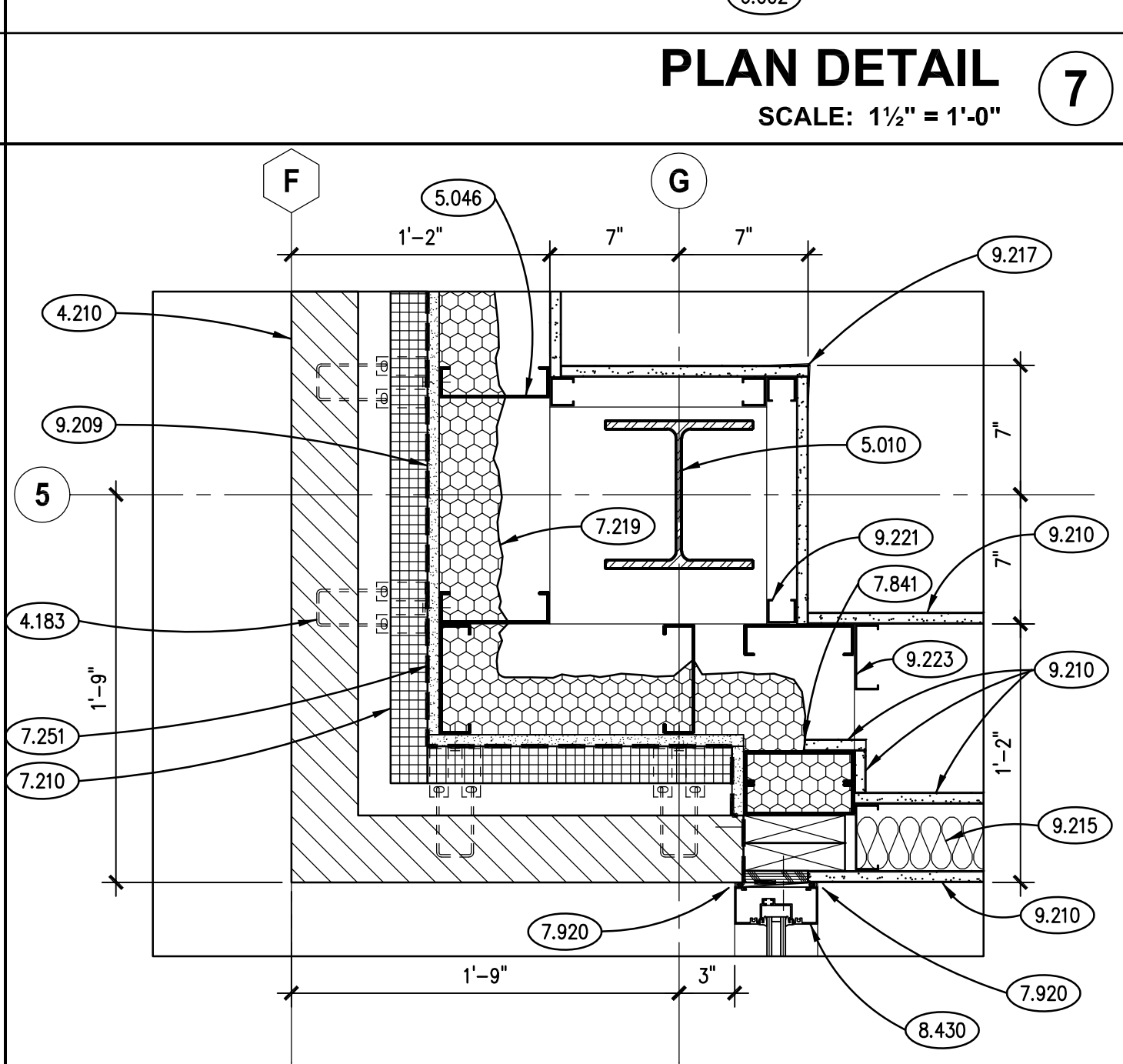
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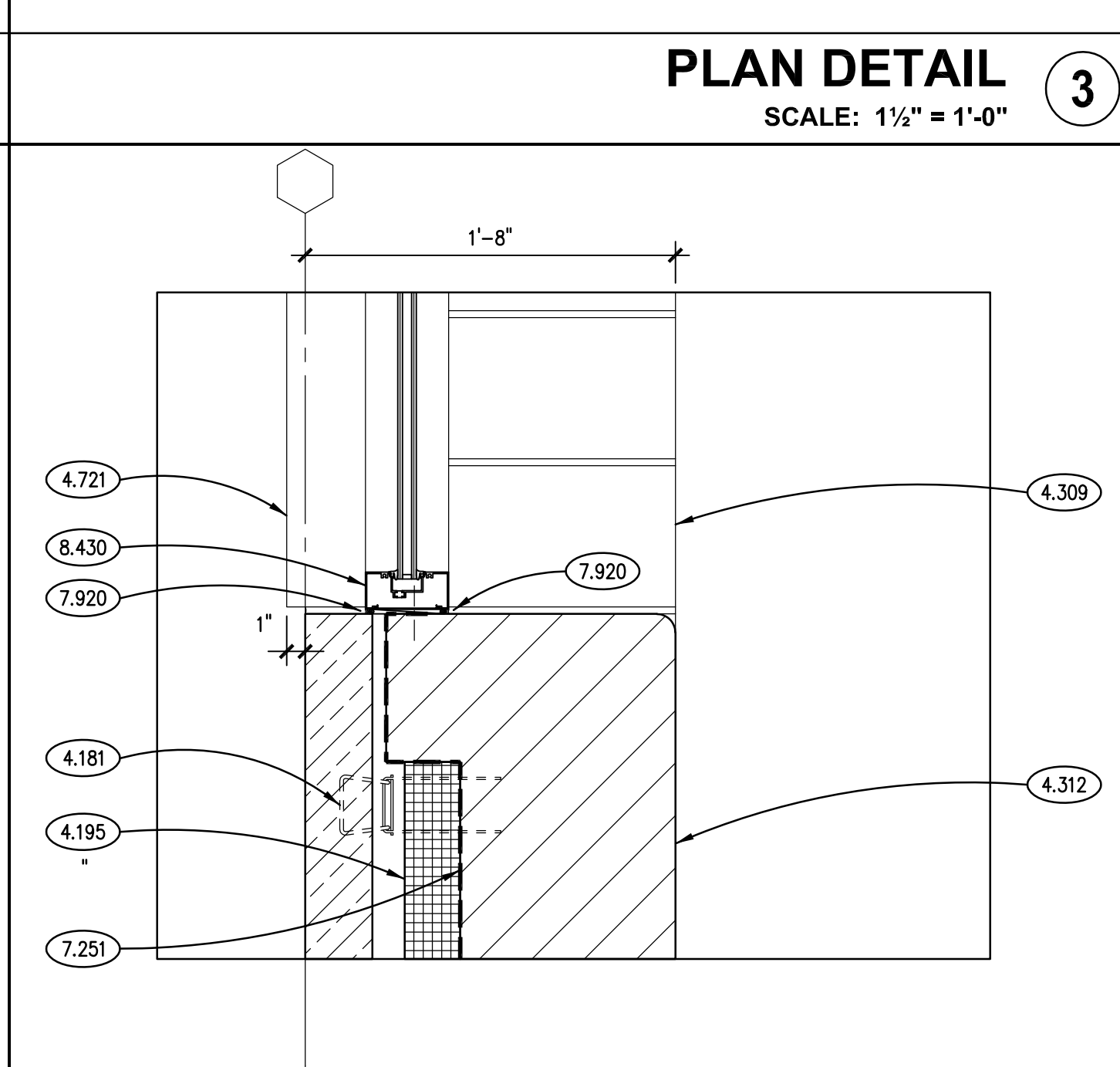
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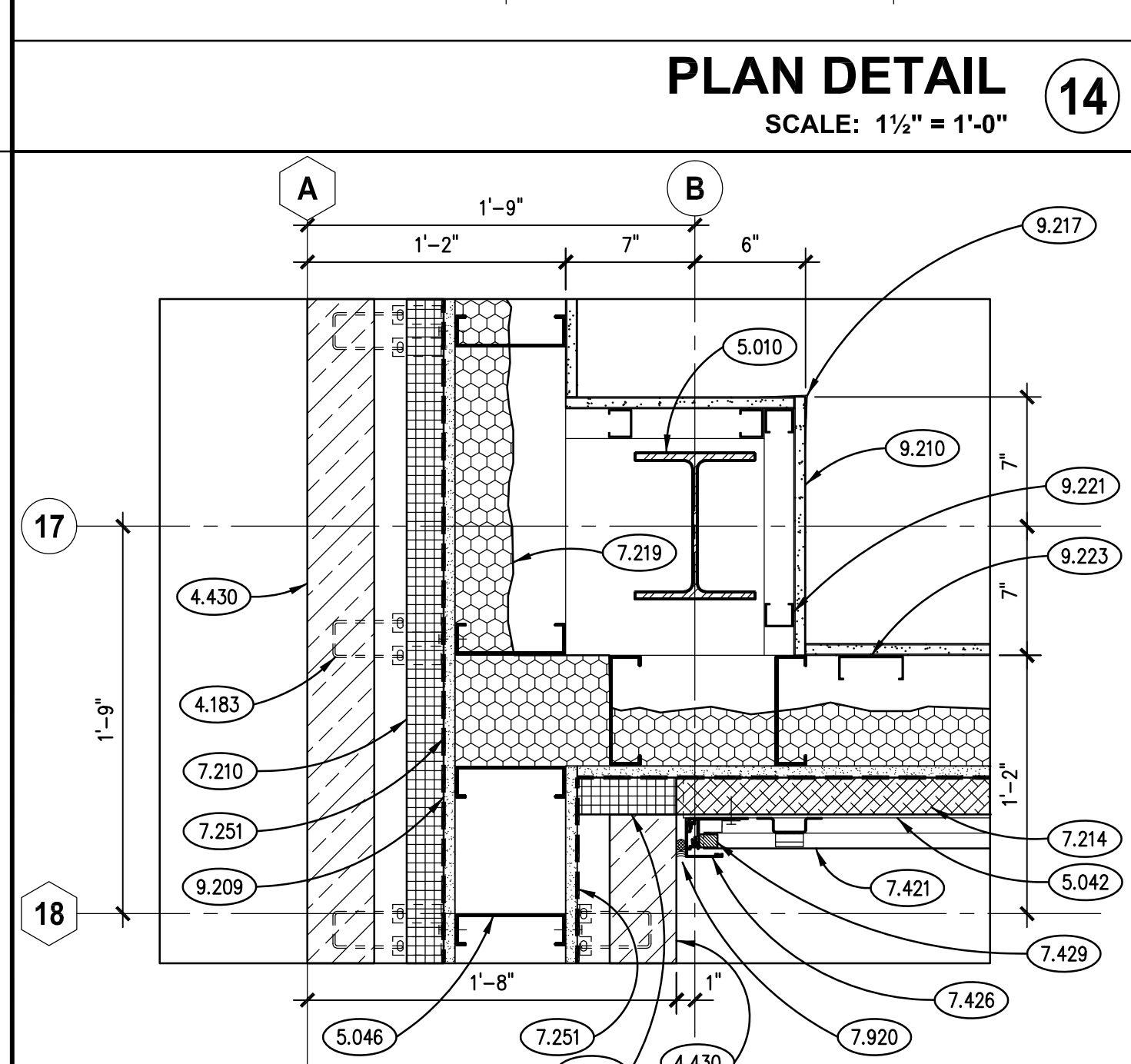
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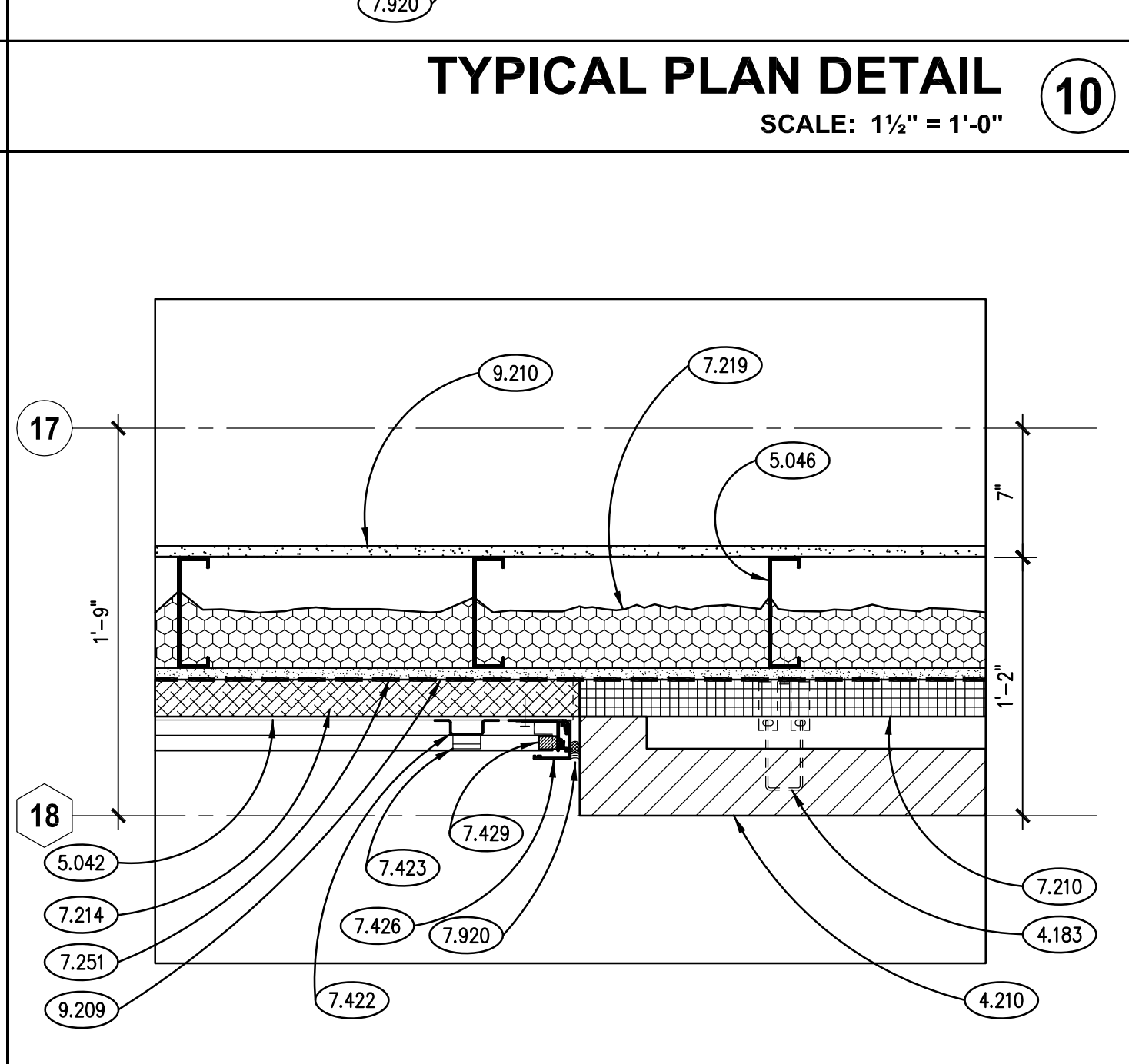
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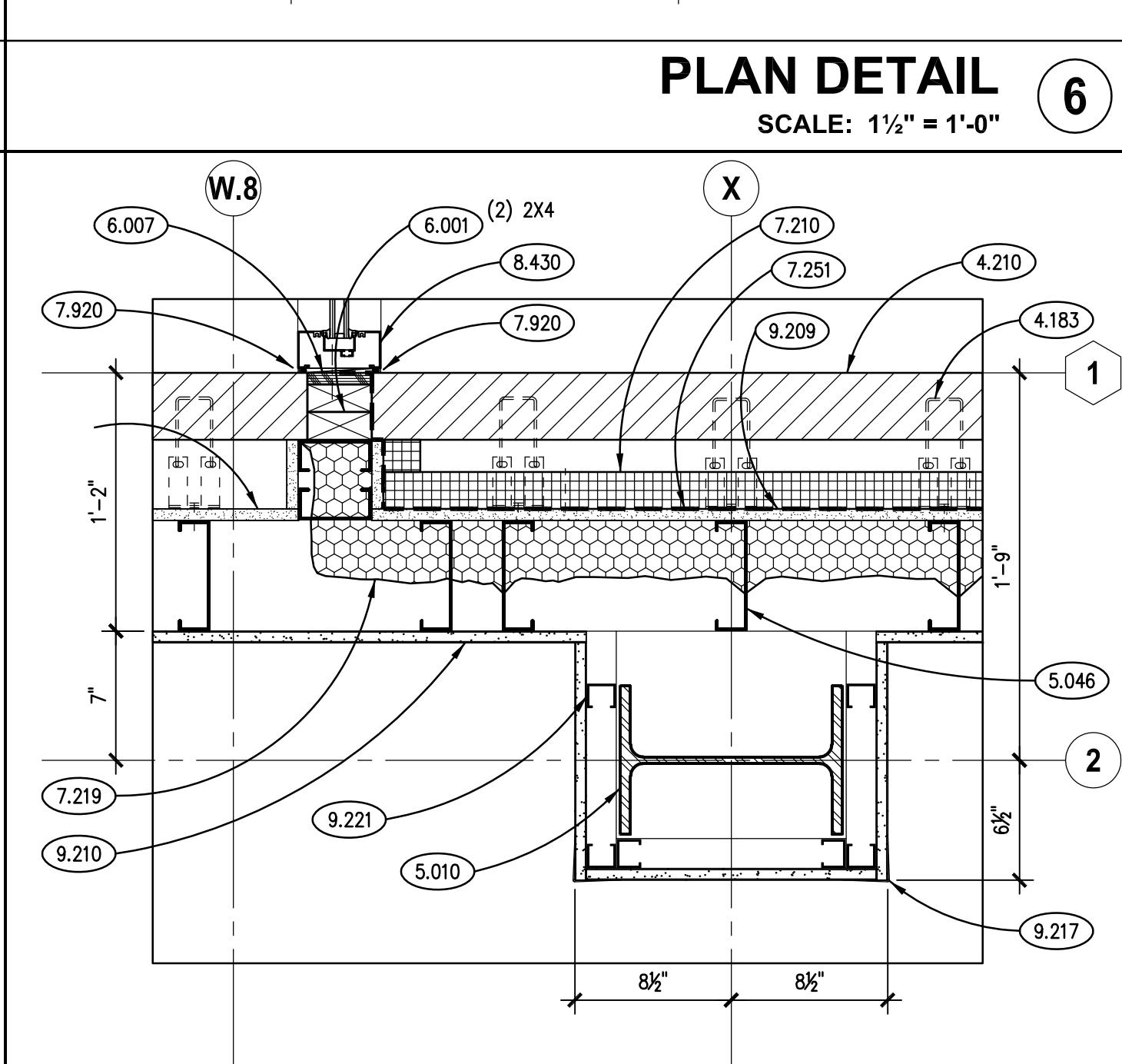
TYPICAL WINDOW JAMB DETAIL
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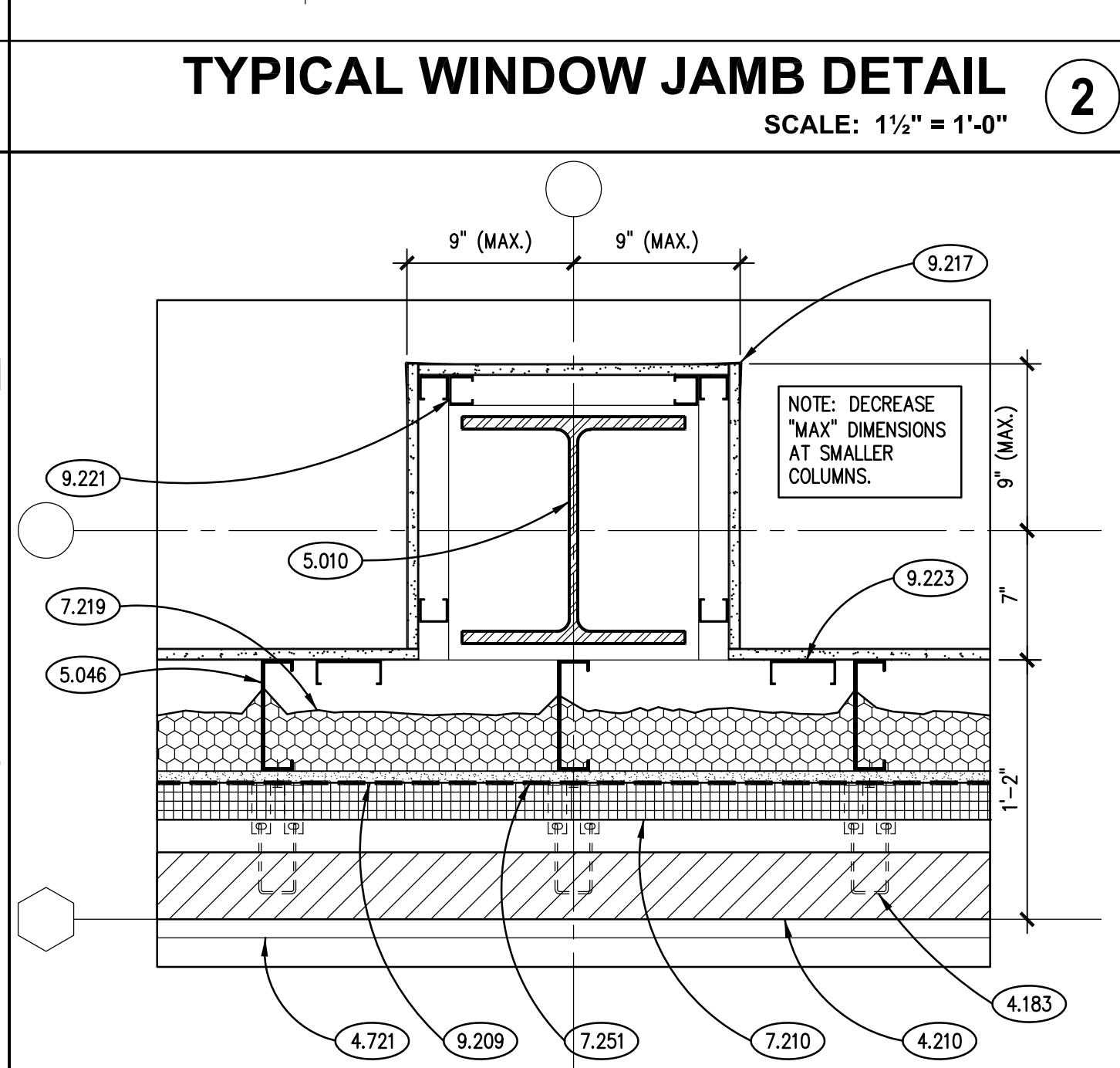
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TYPICAL PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



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



TYPICAL PLAN DETAIL
SCALE: 1 1/2" = 1'-0"

KEYNOTES

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- 4.180 MASONRY ANCHORAGE AND REINFORCEMENT: CONTINUOUS JOINT REINFORCEMENT; SINGLE WYTHE; 16" O.C. VERTICAL SPACING.
- 4.181 MASONRY ANCHORAGE AND REINFORCEMENT: CONTINUOUS JOINT REINFORCEMENT; CAVITY WALL; WITH ADJUSTABLE WALL TIES; 16" O.C. VERTICAL SPACING.
- 4.182 MASONRY ANCHORAGE AND REINFORCEMENT: FLEXIBLE MASONRY ANCHOR; FOR ATTACHMENT TO STRUCTURAL STEEL MEMBERS.
- 4.183 MASONRY ANCHORAGE AND REINFORCEMENT: MASONRY VENEER ANCHOR; FOR ATTACHMENT TO COLD-FORMED METAL STUDS.
- 4.186 MASONRY ANCHORAGE AND REINFORCEMENT: CORRUGATED STRAP WALL TIE.
- 4.195 MASONRY ACCESSORY: CAVITY WALL INSULATION; 3" THK. EXTRUDED POLYSTYRENE (XPS) U.N.O.; MIN. R-5.4 PER INCH THICKNESS.
- 4.210 BRICK MASONRY VENEER: MODULAR; RUNNING BOND; REFER TO SPECIFICATIONS.
- 4.308 CONCRETE BLOCK MASONRY: 8" (NOM.) THK.; RUNNING BOND.
- 4.309 CONCRETE BLOCK MASONRY: 8" (NOM.) THK.; SOLID.
- 4.312 CONCRETE BLOCK MASONRY: 12" (NOM.) THK.; RUNNING BOND.
- 4.430 STONE MASONRY VENEER: REFER TO ARCHITECTURAL ELEVATION/SECTION DRAWINGS FOR COURSE AND TYPE.
- 4.721 CAST STONE MASONRY: SILL COURSE; SIZE AND CONFIGURATION AS INDICATED; PROVIDE CAST DRIP AT ALL OVERHANG EDGES. SLOPE TOP TO DRAIN AS SHOWN. RAKE OUT MORTAR AND PROVIDE BOND BREAKER AND JOINT SEALANT AT ALL HEAD JOINTS.
- 5.010 STRUCTURAL STEEL: FRAMING MEMBER; REFER TO STRUCTURAL DRAWINGS.
- 5.042 COLD-FORMED METAL FRAMING: 2" Z-FURRING; HORIZONTALLY @ 24" O.C.
- 5.043 COLD-FORMED METAL FRAMING: 3" Z-FURRING; HORIZONTALLY @ 24" O.C.
- 5.044 COLD-FORMED METAL FRAMING: 4" STUD; REFER TO STRUCTURAL DRAWINGS.
- 5.046 COLD-FORMED METAL FRAMING: 6" STUD; REFER TO STRUCTURAL DRAWINGS.
- 6.001 WOOD BLOCKING: DIMENSIONAL LUMBER; SIZE AS INDICATED; REFER TO SCHEDULE FOR TREATMENT.
- 6.002 WOOD BLOCKING: DIMENSIONAL LUMBER; SIZE AS REQUIRED; REFER TO SCHEDULE FOR TREATMENT.
- 6.006 PLYWOOD: 1/2" THICK; REFER TO SPECIFICATIONS FOR TREATMENT.
- 6.007 PLYWOOD: 3/4" THICK; REFER TO SPECIFICATIONS FOR TREATMENT.
- 7.210 INSULATION: BOARD; EXTRUDED POLYSTYRENE (XPS); MIN. R-5.4 PER INCH THICKNESS; 2" THICKNESS UNLESS INDICATED OTHERWISE.
- 7.214 INSULATION: MINERAL FIBER BOARD; MIN. R-4.2 PER INCH THICKNESS; 2" THICKNESS UNLESS INDICATED OTHERWISE.
- 7.219 FOAMED-IN-PLACE INSULATION: THICKNESS AS REQUIRED TO ACHIEVE A MINIMUM THERMAL RESISTANCE OF R-21 (UNLESS NOTED OTHERWISE); APPLY INTUMESCENT COATING TO ALL SURFACES NOT SEPARATED FROM THE BUILDING INTERIOR BY GYPSUM WALLBOARD.
- 7.251 WEATHER BARRIER COATING: SPRAY-APPLIED; REFER TO SPECIFICATIONS.
- 7.420 METAL WALL PANEL SYSTEM: PREFINISHED WITH CONCEALED FASTENERS. REFER TO SPECIFICATIONS.
- 7.421 METAL WALL PANEL SYSTEM COMPONENT: METAL WALL PANEL; PREFINISHED STEEL; REFER TO SPECIFICATIONS.
- 7.422 METAL WALL PANEL SYSTEM COMPONENT: SUBGRID.
- 7.423 METAL WALL PANEL SYSTEM COMPONENT: PANEL ATTACHMENT CLIP.
- 7.424 METAL WALL PANEL SYSTEM COMPONENT: SUPPLEMENTARY SUPPORT CLIP.
- 7.426 METAL WALL PANEL SYSTEM ACCESSORY: PREFINISHED EXTRUDED ALUMINUM HEAD/JAMB TRIM.
- 7.429 METAL WALL PANEL SYSTEM ACCESSORY: METAL-CLAD COMPOSITION CLOSURE; INSTALL IN CONTINUOUS BEAD OF NON-CURING BUTYL SEALANT.
- 7.430 METAL COMPOSITE PANEL SYSTEM: PREFINISHED WITH CONCEALED FASTENERS. REFER TO SPECIFICATIONS.
- 7.841 FIRESTOPPING: SEALANT; REFER TO SPECIFICATIONS.
- 7.920 JOINT SEALANT: REFER TO SCHEDULE IN SPECIFICATION SECTION 07 92 00; PROVIDE BACKER ROD OR BOND BREAKER.
- 8.110 STEEL DOOR FRAME: REFER TO DOOR, FRAME AND BORROWED LIGHT SCHEDULE.
- 8.422 AUTOMATIC ENTRANCE: POWERED SLIDING DOOR SYSTEM WITH BREAKAWAY FUNCTION.
- 8.430 ALUMINUM STOREFRONT FRAMING.
- 8.437 ALUMINUM STOREFRONT ACCESSORY: 0.032" SHEET ALUMINUM HEAD/JAMB FLASHING; FINISH TO MATCH STOREFRONT FRAMING.
- 9.209 GYPSUM BOARD: 5/8" THK.; EXTERIOR GRADE, GLASS MATT FACED.
- 9.210 GYPSUM BOARD: 5/8" THK.; TYPE "X".
- 9.215 GYPSUM BOARD ACCESSORY: ACOUSTICAL INSULATION: SOUND ATTENUATION BATTS; THICKNESS AS SPECIFIED.
- 9.216 GYPSUM BOARD ACCESSORY: CONTROL JOINT.
- 9.217 GYPSUM BOARD ACCESSORY: CORNER BEAD.
- 9.219 GYPSUM BOARD ACCESSORY: EDGE TRIM; 1" PROFILE.
- 9.221 METAL STUD FRAMING: 1-5/8" STUD; 16" O.C. SPACING; 20 GAUGE UNLESS NOTED OTHERWISE; ANCHORAGE TO SUIT APPLICATION.
- 9.223 METAL STUD FRAMING: 3-5/8" STUD; 16" O.C. SPACING; 20 GAUGE UNLESS NOTED OTHERWISE; ANCHORAGE TO SUIT APPLICATION.
- 12.368 SOLID SURFACE WINDOW SILL: 3/4" EDGE THICKNESS WITH 1 1/2" PROJECTION; 3/8" RADIUS TOP EDGE, AND 1/2" THICK X 2" HIGH APRON BENEATH, U.N.O.
- 22.101 PLUMBING PIPING: ROOF DRAIN DOWNCOMER; REFER TO PLUMBING DRAWINGS.
- 22.112 PLUMBING PIPING SPECIALTY: DOWNSPOUT NOZZLE; REFER TO PLUMBING DRAWINGS.

GENERAL NOTES

- REFER TO DRAWING G200 FOR PROJECT GENERAL NOTES.
- COORDINATE FIRE RATED ASSEMBLIES INFORMATION CONTAINED ON DRAWING G301 & G302 WITH THE WORK OF ALL CONTRACTS.
- IN METAL STUD/GYPSUM BOARD PARTITIONS, WALLS & CEILINGS, PROVIDE 2X FIRE RETARDANT TREATED WOOD BLOCKING FOR WALL-MOUNTED AND CEILING MOUNTED ITEMS REQUIRING MECHANICAL ANCHORAGE.

ISSUED		JOB NO.	
1	10/10/18 B.P. #1 - ADDENDUM #1	17-401-1124	CDH
2	10/10/18 B.P. #1 - ADDENDUM #2		CDH
3	10/10/18 B.P. #1 - ADDENDUM #3		CDH
4	10/23/18 B.P. #2 - MISC. STL. & STRUC. ENCL.		CJH
5	10/23/18 B.P. #2 - ADDENDUM #1		
6	10/23/18 B.P. #2 - ADDENDUM #2		
7	11/02/18 B.P. #2 - ADDENDUM #2		

DRAWN	CDH
CHECKED	CDH
APPROVED	CJH

SHEET TITLE

PLAN DETAILS

SHEET NUMBER

A1000

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTE ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 22.101 PLUMBING PIPING: ROOF DRAIN DOWNCOMER; REFER TO PLUMBING DRAWINGS.
22.112 PLUMBING PIPING SPECIALTY: DOWNSPOUT NOZZLE; REFER TO PLUMBING DRAWINGS

1. REFER TO DRAWING G200 FOR PROJECT GENERAL NOTES.
2. COORDINATE FIRE RATED ASSEMBLIES INFORMATION CONTAINED ON DRAWING G301 & G302 WITH THE WORK OF ALL CONTRACTS.
3. IN METAL STUD/GYPSUM BOARD PARTITIONS, WALLS & CEILINGS, PROVIDE 2X FIRE RETARDANT TREATED WOOD BLOCKING FOR WALL-MOUNTED AND CEILING MOUNTED ITEMS REQUIRING MECHANICAL ANCHORAGE.

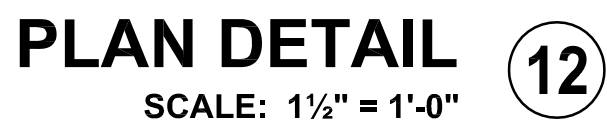
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3	10/10/18
4	B.P. #1 - ADDENDUM #3
5	10/23/18
6	B.P. #2 - MISC. STL / STRUC. ENCL.
7	11/12/18
8	B.P. #1 - PLAN REVIEW COMMENTS
9	B.P. #2 - ADDENDUM #1
10	10/31/18
11	B.P. #2 - ADDENDUM #2
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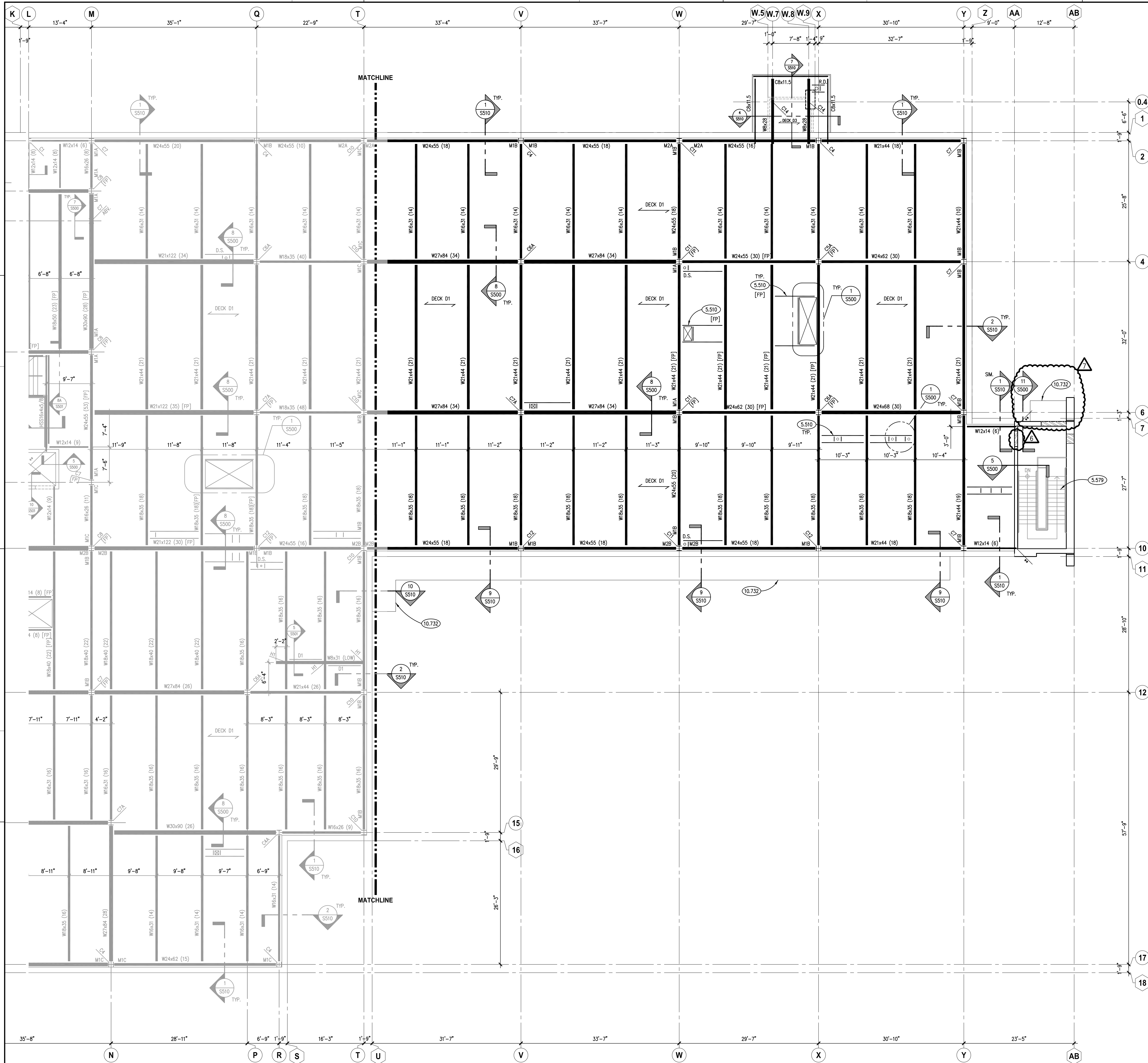
JOB NO.	17-401-1124
DRAWN	CDH
CHECKED	CDH
APPROVED	CJH
SHEET TITLE	

PLAN DETAILS

SHEET NUMBER

A1001





PARTIAL SECOND FLOOR FRAMING PLAN - AREA 'B'
SCALE: 1/8" = 1'-0"

KEYNOTES

- KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.
- 5.510 METAL FABRICATION: ANGLE FRAME AS REQUIRED TO ACCOMMODATE ARCHITECTURAL AND M.E.P. OPENINGS. SEE DRAFTING LEGEND ON SHEET 5010 FOR FRAME TYPE DEPICTED. FRAMES REQUIRED FOR ALL OPENINGS 1'-0" AND LARGER AND WHEN MULTIPLE PENETRATIONS IN CLOSE PROXIMITY TO EACH OTHER CAUSE DECK TO BE UNSTABLE. TYPICAL APPLICATIONS INCLUDE, BUT NOT LIMITED TO FLOOR DRAINS, DOWNSPOUTS, PIPING, ROOF DRAINS, SKYLIGHTS, DUCT PENETRATIONS AND CURBS OF MECHANICAL EQUIPMENT. COORDINATE SIZE, LOCATION AND QUANTITY WITH ARCHITECTURAL DRAWINGS, M.E.P. DRAWINGS AND CONTRACTORS. ANGLE SIZES AS NOTED.
- 5.579 METAL FABRICATION: COMMERCIAL CLASS STAIR AND LANDING (UPPER AND LOWER) CONSTRUCTION BY STAIR CONTRACTOR. CONTRACTOR TO PROVIDE ALL ASSOCIATED DESIGN AND DETAILING AS REQUIRED. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. NOTE: ALL HEADER ELEMENTS AND STRINGERS SHALL EXTEND INTO WALLS AND BEAR ON BEARING PLATES. POST INSTALLED ANCHORS INTO SEAT ANGLES, ETC. WILL NOT BE PERMITTED. DETAILS TO BE COORDINATE WITH CONTRACTORS ASSOCIATED WITH CONNECTIONS AND FRAMING ELEMENTS AT LOCATIONS THAT WILL BE EXPOSED TO VIEW (I.E. BEHIND GLAZING, NO CEILINGS, ETC.).
- 10.732 METAL CANOPY: PREFINISHED WITH SUPPORT RODS. REFER TO SPECIFICATIONS.

METAL DECK SCHEDULE AND NOTES

MARK	TYPE & GAUGE		TOTAL SLAB DEPTH (H)	FINISH	DECK FASTENING			SPECIAL COMMENTS
	TYPE	GAUGE			FIELD WELDS	EDGE WELDS	SIDELAP SCREWS	
D1	3	VL	18	6"	GALVANIZED	36/4	12"	1/2 PTS. TYPICAL FLOOR U.N.O.
D2	3	N	20	N.A.	PAINTED	24/4	8"	1/4 PTS. TYPICAL ROOF U.N.O.
D3	1.5	B	20	N.A.	PAINTED	36/4	6"	1/2 PTS. CANOPY ROOFS

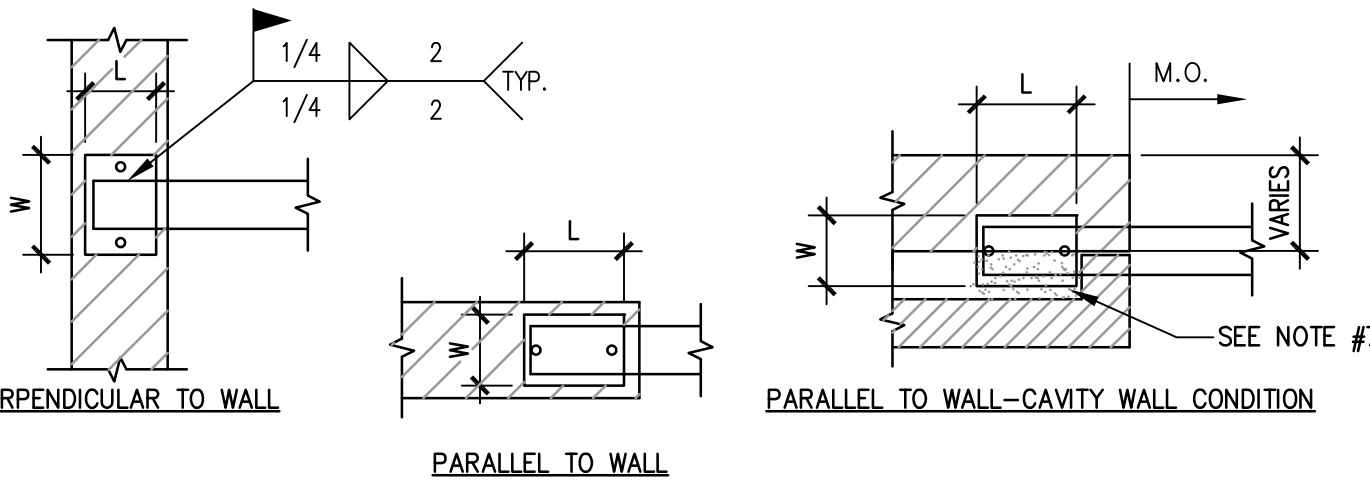
- NOTES:
- SEE PLAN FOR DECK LOCATIONS.
 - ALL WELDS TO BE 5/8" PUDDLE WELDS U.N.O.
 - ALL SIDELAP FASTENERS TO BE #10 TEK SCREWS EQUALLY SPACED BETWEEN SUPPORTS U.N.O. BUTT PUNCH SIDELAPS FOR FLOOR DECKS ACCEPTABLE.
 - CONCRETE SLABS ARE TO BE NORMAL WEIGHT (7=4,000 PSI) AND REINFORCED WITH 6x6-W2.1xW2.1 W.W.F. U.N.O.
 - ALL COMPOSITE DECKING IS INTENDED TO BE UNSHORED. REFER TO NOTE 6 FOR ADDITIONAL INFORMATION.
 - METAL DECK MANUFACTURER FOR BASIS OF DESIGN IS VULCRAFT (TYPE AND GAUGE AS NOTED IN SCHEDULE). IF THE USE OF AN ALTERNATE DECK MANUFACTURER IS DESIRED, CONTRACTOR IS TO SUBMIT ALL PRODUCT DATA TO E.O.R. FOR REVIEW.
 - MINIMUM BEARING LENGTHS TO BE PER SDI RECOMMENDATIONS.
 - ROOF DECKS TO HAVE LAPPED DECK ENDS. FLOOR DECKS TO HAVE BUTTED DECK ENDS.
 - PROVIDE ALL BENT PLATE CLOSURES, POUR STOPS, ETC. AS REQUIRED TO FACILITATE CONCRETE POUR CONTAINMENT.
 - POUR STOP GAUGE TO BE PER THE SDI TABLE. MINIMUM GAUGE TO BE 16.
 - GALVANIZED DECKS TO HAVE MINIMUM OF G60 COATING U.N.O.
 - ALL ROOF DECK TO RECEIVE FIRE-PROOFING ARE TO BE GALVANIZED. ALL OTHER ROOF DECK TO BE PRIME-PAINTED U.N.O.
 - PROVIDE MINIMUM OF 3 SPAN CONDITION FOR ALL ROOF DECKS. PROVIDE MINIMUM OF 2 SPAN CONDITION FOR ALL FLOOR DECK.

BEARING PLATE SCHEDULE, NOTES AND DETAILS

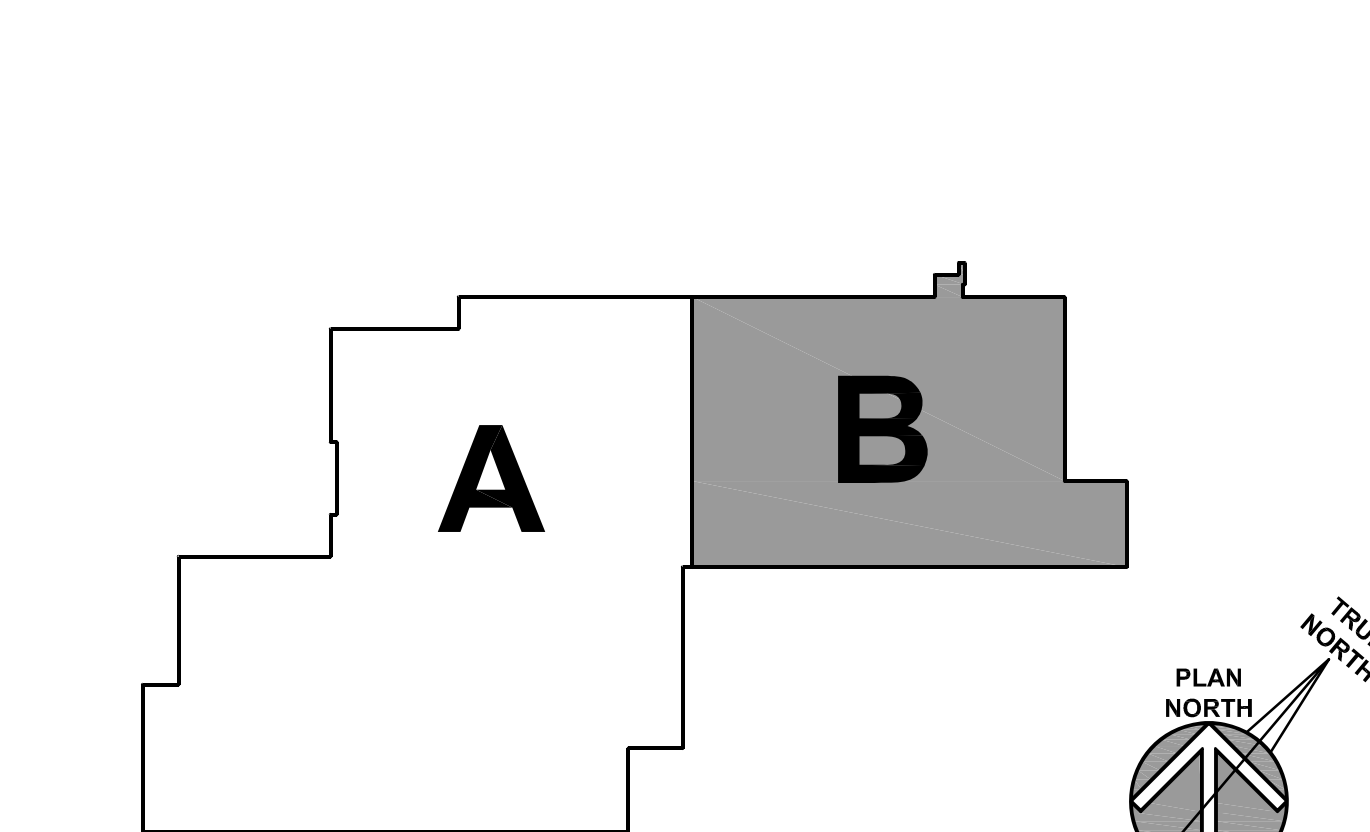
MARK	THICK (T)	WIDTH (W)	LENGTH (L)	SPECIAL COMMENTS
BP1	1/2"	7"	7"	ALL W8'S, W12'S, W14'S
BP2	5/8"	7"	7"	ALL HSS16'S, W16'S

- NOTES:
- SEE PLAN AND LINTEL SCHEDULES FOR BEARING PLATE LOCATIONS. ALL BEAMS, JOISTS, LINTELS (EXCEPT ANGLES) REQUIRE BEARING PLATES. ANY OPEN/UNTAGGED BEARING PLATES, CONTRACTOR TO ASSUME A BP3 FOR BIDDING PURPOSES.
 - BEARING PLATES TO BE SET LEVEL AND AT THE ELEVATIONS NOTED ON CONTRACT DRAWINGS AND SHOP DRAWINGS. CONTRACTOR TO COORDINATE AND VERIFY ALL ELEVATIONS.
 - BEARING PLATES REQUIRE MINIMUM OF (2)-3/8"x4" LG. HEADED STUDS U.N.O.
 - BEARING PLATES ARE TO BE CENTERED ON BEAM, JOIST AND LINTEL ELEMENTS U.N.O.
 - BEARING PLATES FOR JOISTS SHALL BE PLACED NOT MORE THAN 1/2" FROM THE INTERIOR FACE OF THE WALL.
 - BEARING PLATES EXPOSED TO VIEW NEED TO BE SET SO THE PLATE IS CONCEALED WITHIN THE MASONRY FACE SHELL OR MORTAR JOINT. EXCEPTION: STEEL JOISTS.
 - FOR CAVITY WALLS, OMIT INSULATION AND GROUT CAVITY SOLID FULL HEIGHT WHERE REQUIRED TO ACCOMMODATE BEARING PLATE LOCATION.
 - ALL BEARING PLATES NOT BEARING DIRECTLY ON BOND BEAMS REQUIRE A 2'-0" WIDTH OF GROUTED SOLID MASONRY EXTENDING DOWN TO THE BOND BEAM ELEVATION. IF NO BOND BEAMS PRESENT, PROVIDE MINIMUM GROUT DEPTH OF (2) FULL COURSES U.N.O.
 - EXTEND ELEMENTS OVER BEARING PLATE A DISTANCE OF (L-2").

DETAILS:



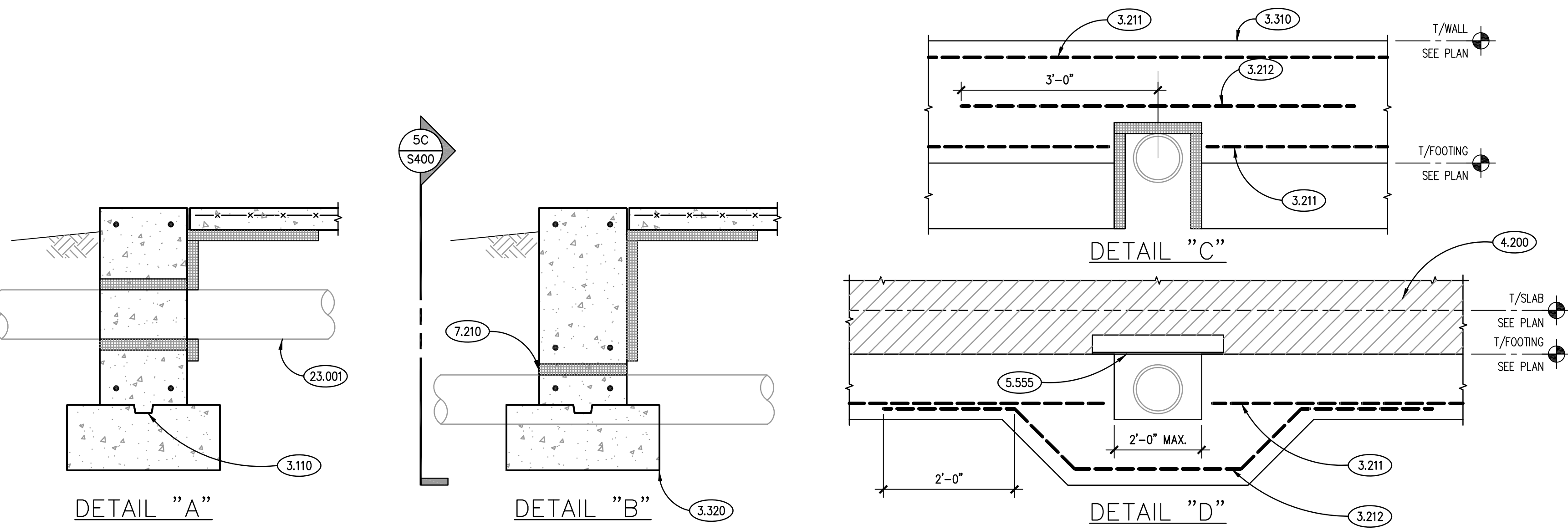
KEY PLAN



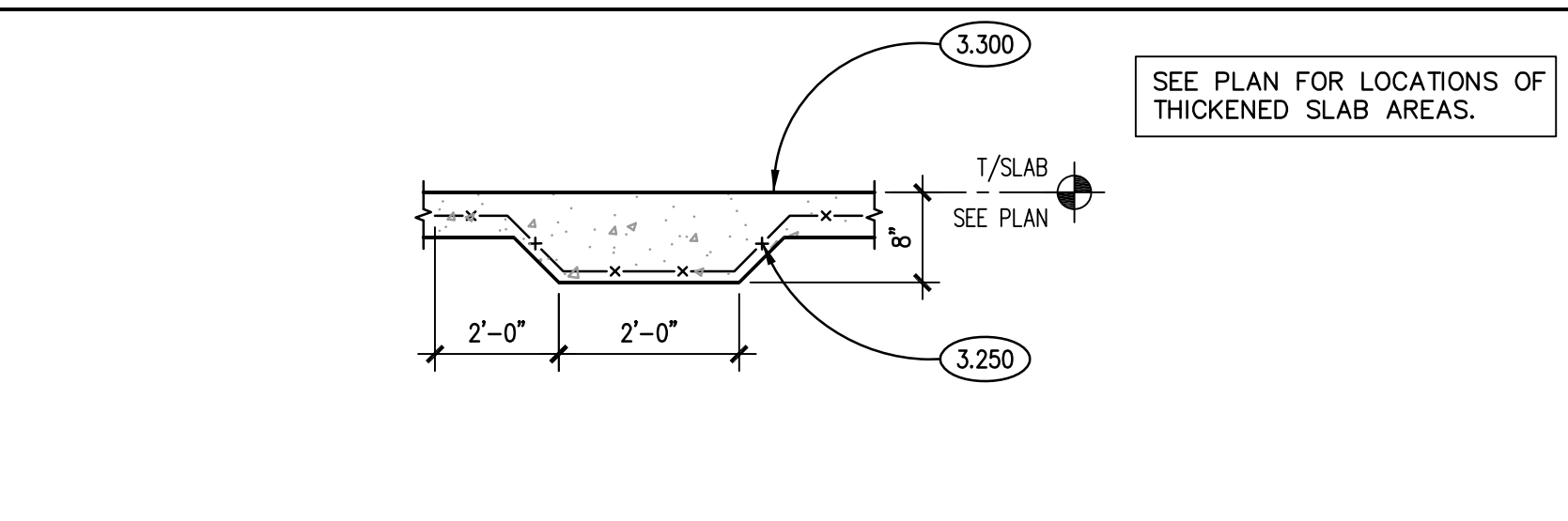
KEYNOTES

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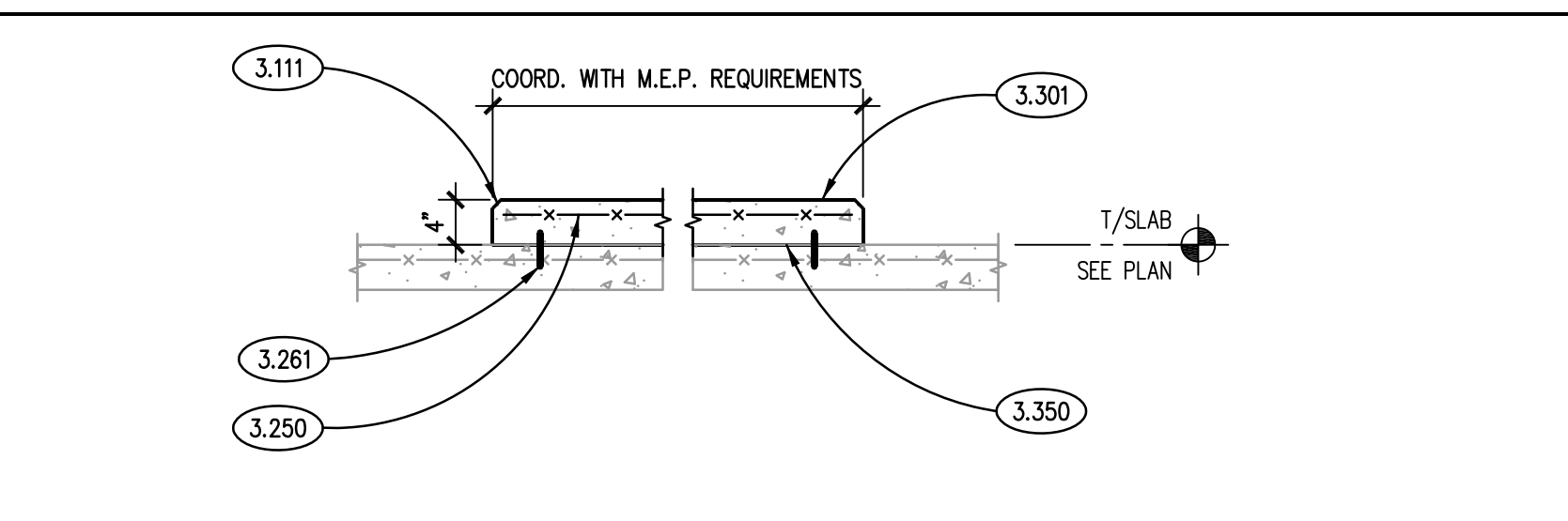
- 3.110 CONCRETE FORMING AND ACCESSORIES: CONTINUOUS 2x4 KEYWAY U.N.O.
- 3.111 CONCRETE FORMING AND ACCESSORIES: CONTINUOUS 3/4" CHAMFER U.N.O.
- 3.113 CONCRETE FORMING AND ACCESSORIES: CONTINUOUS RADIUS EDGE. PROVIDE 3/4" RADIUS U.N.O.
- 3.120 CONCRETE FORMING AND ACCESSORIES: 1/4" DIAMOND DOWEL SYSTEM @ 1'-0" O.C.
- 3.211 CONCRETE REINFORCING: CONTINUOUS WALL/FOOTING REINFORCING. REFER TO SECTIONS AND SCHEDULES.
- 3.212 CONCRETE REINFORCING: PROVIDE (2)-#5 BARS U.N.O. OR DELETED.
- 3.212 CONCRETE REINFORCING: LAP REINFORCING BAR TO MATCH SIZE, SPACING AND QUANTITY OF WALL/FOOTING REINFORCING.
- 3.213 CONCRETE REINFORCING: CORNER/INTERSECTION BARS TO MATCH SIZE, SPACING AND QUANTITY OF WALL/FOOTING REINFORCING. PROVIDE IN ALL ELEMENTS WITH LONGITUDINAL REINFORCING. REFER TO TYPICAL DETAIL.
- 3.214 CONCRETE REINFORCING: (2)-#4x4'-0" LONG DOWELS CENTERED ON JOINT AND SLAB/WALL DEPTH.
- 3.215 CONCRETE REINFORCING: REINFORCING STEEL MAT. #5 @ 12" O.C. EACH WAY U.N.O.
- 3.230 CONCRETE REINFORCING: BENT BARS AS DEPICTED. MATCH SIZE AND SPACING OF SLAB BARS. PROVIDE MINIMUM #5 BARS @ 12" O.C. U.N.O.
- 3.241 CONCRETE REINFORCING: #5x2'-8" LONG DOWELS @ 1'-0" O.C. ANCHOR INTO WALL USING INJECTION ADHESIVE/POXY SYSTEM PER PROJECT SPECIFICATIONS. EMBEDMENT TO BE 8" U.N.O.
- 3.246 CONCRETE REINFORCING: PROVIDE AS NOTED.
- 3.248 CONCRETE REINFORCING: VERTICAL DOWELS #6x6'-0" LG. SPACING TO BE 24" O.C. U.N.O. EMBED 3'-0" INTO FOUNDATION WALL. MASONRY CONTRACTOR TO GROUT CMU CORES SOLID AT PORTION OF BAR EMBEDDED IN CMU.
- 3.250 CONCRETE REINFORCING: WWF REFER TO SLAB CALLOUT ON PLAN. PROVIDE WWF-6X6 W2.1 X W2.1 IN FLAT SHEETS U.N.O. PROVIDE PROPER SUPPORT AS REQUIRED TO MAINTAIN PLACEMENT AT NOTED ELEVATION. "PULL UP" METHOD DURING SLAB PLACEMENT NOT ACCEPTABLE. DISCONTINUE AT CONTRACTION AND CONSTRUCTION JOINTS.
- 3.260 CONCRETE REINFORCING: REINFORCING STEEL SUPPORT ELEMENT.
- 3.261 CONCRETE REINFORCING: #4 DOWEL X 1'-0" @ 2'-0" O.C. U.N.O. ANCHOR INTO EXISTING SLAB USING HILTI HY-150 INJECTION ADHESIVE. EMBEDMENT TO BE 4" U.N.O.
- 3.300 CAST-IN-PLACE CONCRETE: INTERIOR SLAB-ON-GRADE. REFER TO PLAN, SCHEDULE AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 3.301 CAST-IN-PLACE CONCRETE: HOUSEKEEPING PAD. REFER TO SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH. COORDINATE SIZE, LOCATION AND QUANTITY WITH M.E.P. DRAWINGS AND MANUFACTURER REQUIREMENTS. REFER TO TYPICAL DETAIL ON CONTRACT DOCUMENTS.
- 3.302 CAST-IN-PLACE CONCRETE: ELEVATOR PIT BASE SLAB. PROVIDE SUMP AND CENTER HOLE AS REQUIRED. REFER TO PLAN AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 3.303 CAST-IN-PLACE CONCRETE: EXTERIOR SLAB-ON-GRADE. REFER TO SPECIFICATIONS FOR MIX TYPE AND FINISH. REINFORCE WITH WWF-6x6 W2.1 X W2.1. SLOPE AWAY FROM BUILDING. ELEVATION AT DOOR AT MATCH INTERIOR SLAB/FINISH FLOOR ELEVATION.
- 3.308 CAST-IN-PLACE CONCRETE: NON-STRUCTURAL TOPPING. REFER TO PLAN, SCHEDULE AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 3.310 CAST-IN-PLACE CONCRETE: FOUNDATION WALL. REFER TO PLAN, DETAILS AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 3.314 CAST-IN-PLACE CONCRETE: CONCRETE SLAB. REFER TO PLAN AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 3.320 CAST-IN-PLACE CONCRETE: CONTINUOUS WALL FOOTING. REFER TO PLAN, SCHEDULE AND SPECIFICATIONS FOR THICKNESS, REINFORCING AND MIX TYPE.
- 3.349 CAST-IN-PLACE CONCRETE: CONCRETE CURB AS NOTED. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS AND TRADE CONTRACTORS.
- 3.350 CAST-IN-PLACE CONCRETE ACCESSORY: BONDING AGENT. ROUGHEN BASE SLAB AS REQUIRED.
- 3.360 CAST-IN-PLACE CONCRETE JOINT DEVICE/FILLER: SLAB ISOLATION JOINT FILLER. COORDINATE LOCATIONS WITH DOORS WHERE APPLICABLE.
- 3.361 CAST-IN-PLACE CONCRETE JOINT DEVICE/FILLER: SLAB CONSTRUCTION JOINT.
- 3.362 CAST-IN-PLACE CONCRETE JOINT DEVICE/FILLER: SLAB CONTRACTION JOINT. SAWCUT 4-12 HOURS AFTER POUR. EMBEDDED PLASTIC STRIPS ALSO ACCEPTABLE.
- 3.363 CAST-IN-PLACE CONCRETE JOINT DEVICE/FILLER: SLAB JOINT SEALANT.
- 4.200 UNIT MASONRY: REFER TO PLANS, SCHEDULES, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION INCLUDING BLOCK SIZE, COURSEING AND FACE BRICK/TYNE.
- 4.280 MASONRY ANCHORAGE AND REINFORCEMENT: CONTINUOUS JOINT REINFORCEMENT; 16" O.C. VERTICAL SPACING.
- 4.284 MASONRY ANCHORAGE AND REINFORCEMENT: FULL HEIGHT REINFORCING BARS; SET WITH REBAR POSITIONERS. REFER TO PLANS AND SCHEDULES FOR SIZE, QUANTITY AND SPACING. GROUT SOLID INTO PLACE.
- 5.122 STRUCTURAL STEEL: BASEPLATE & SETTING PLATE. REFER TO COLUMN SCHEDULE.
- 5.555 METAL FABRICATION: STEEL LINTEL. PROVIDE (1)-1 1/2x3 1/2x5/16 (U.N.O.) FOR EACH 4" NOMINAL MASONRY WALL THICKNESS. BEARING LENGTH TO 4" MINIMUM (U.N.O.).
- 5.596 METAL FABRICATION: STEEL BOLLARD: 6" DIAMETER. CONCRETE FILLED.
- 7.210 THERMAL INSULATION: BOARD INSULATION. REFER TO SPECIFICATIONS. PROVIDE 25 PSI ALONG VERTICAL SURFACE OF FOUNDATION WALL AND 60 PSI ALONG THE HORIZONTAL SURFACE BELOW SLAB.
- 23.001 M.E.P. ITEM: PROVIDE SLEEVES/PROTECTION AS REQUIRED TO AVOID DIRECT CONTACT WITH WALL OR FOOTING.
- 31.231 EXCAVATION FILL: SOIL FILL OR BACKFILL MATERIAL.
- 31.232 EXCAVATION FILL: ENGINEERED GRANULAR FILL.



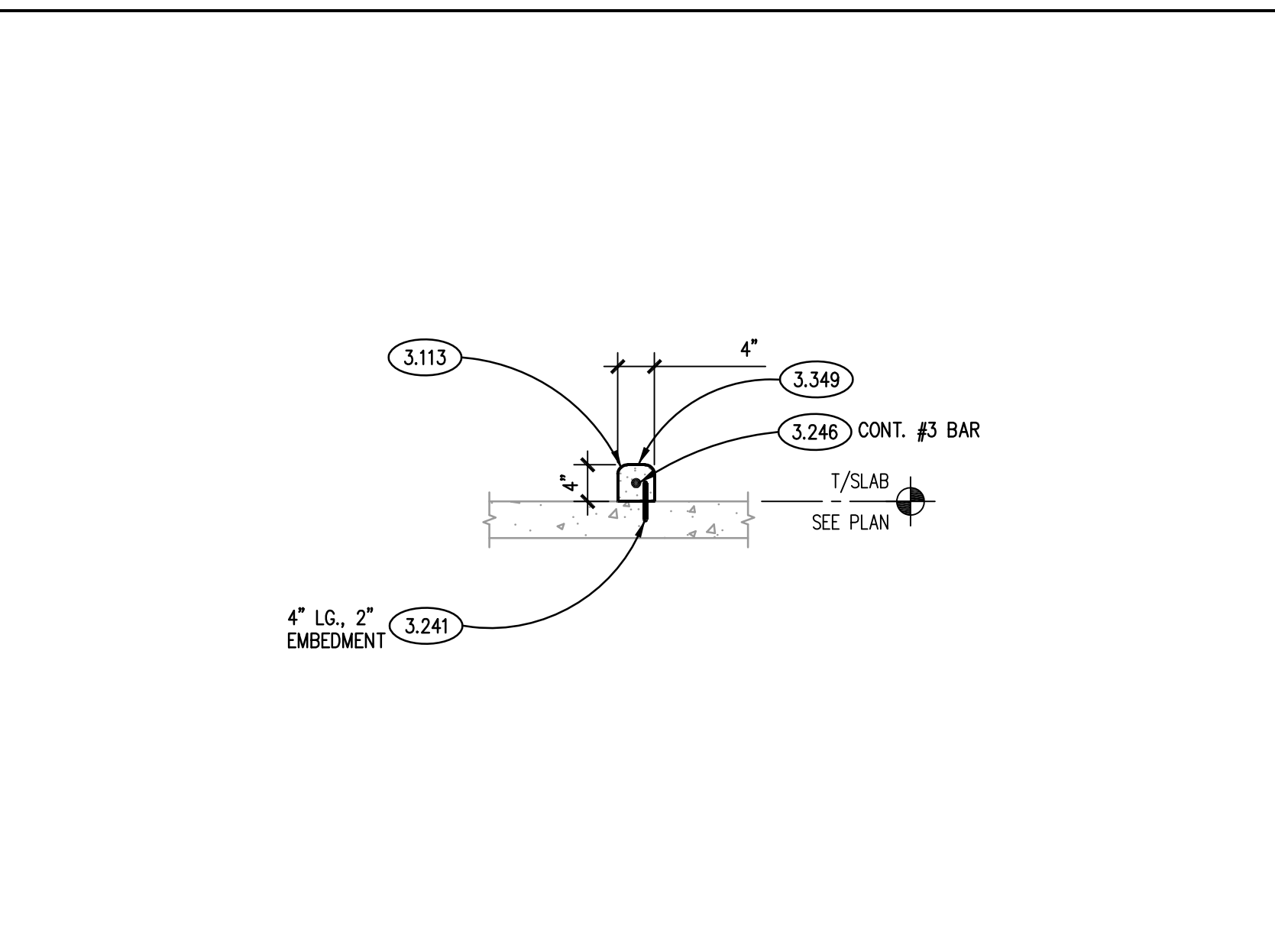
TYPICAL PIPE PENETRATION DETAILS THROUGH FOUNDATIONS
SCALE: N.T.S. 5



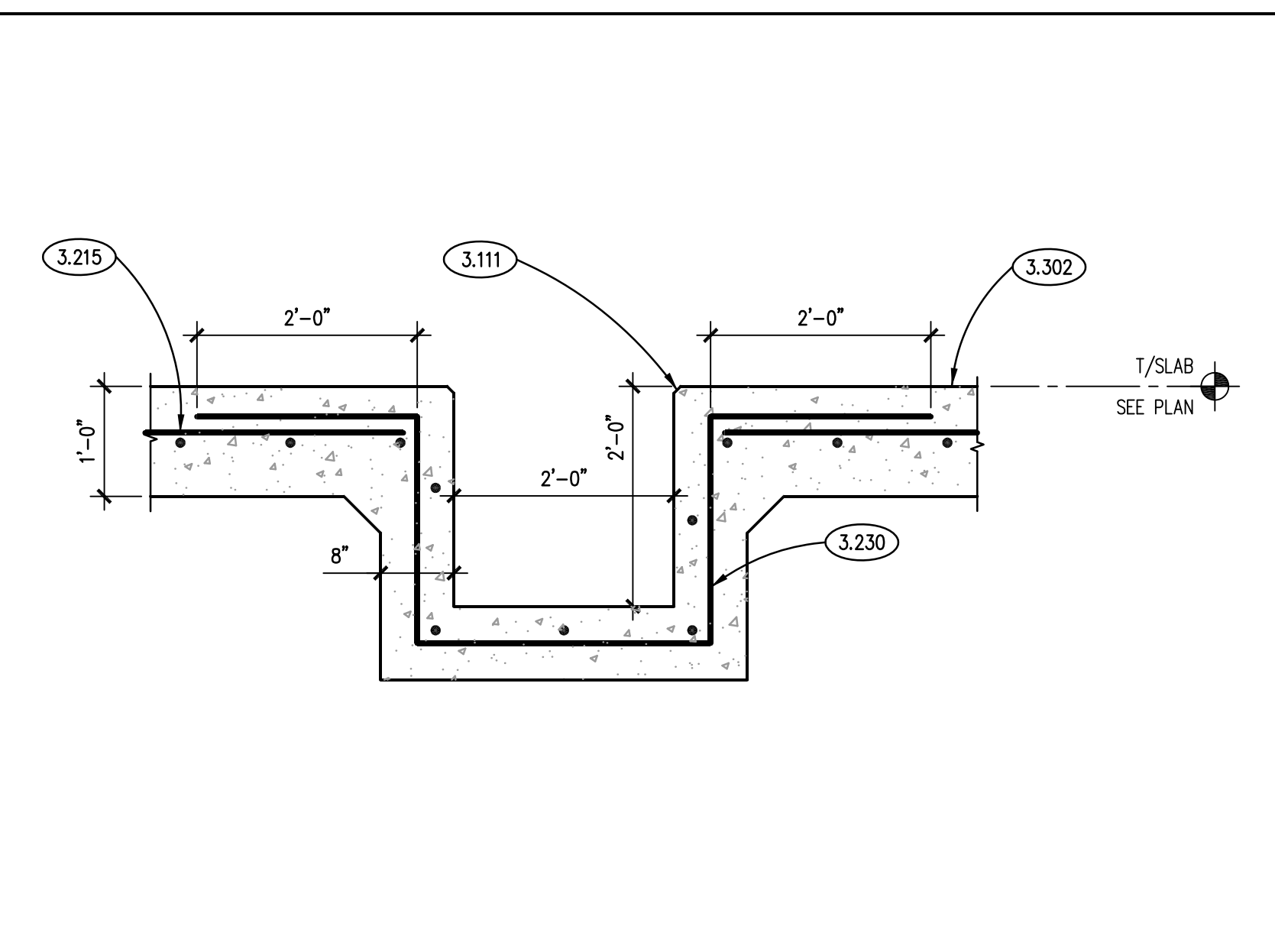
TYPICAL THICKENED SLAB DETAIL
SCALE: N.T.S. 9



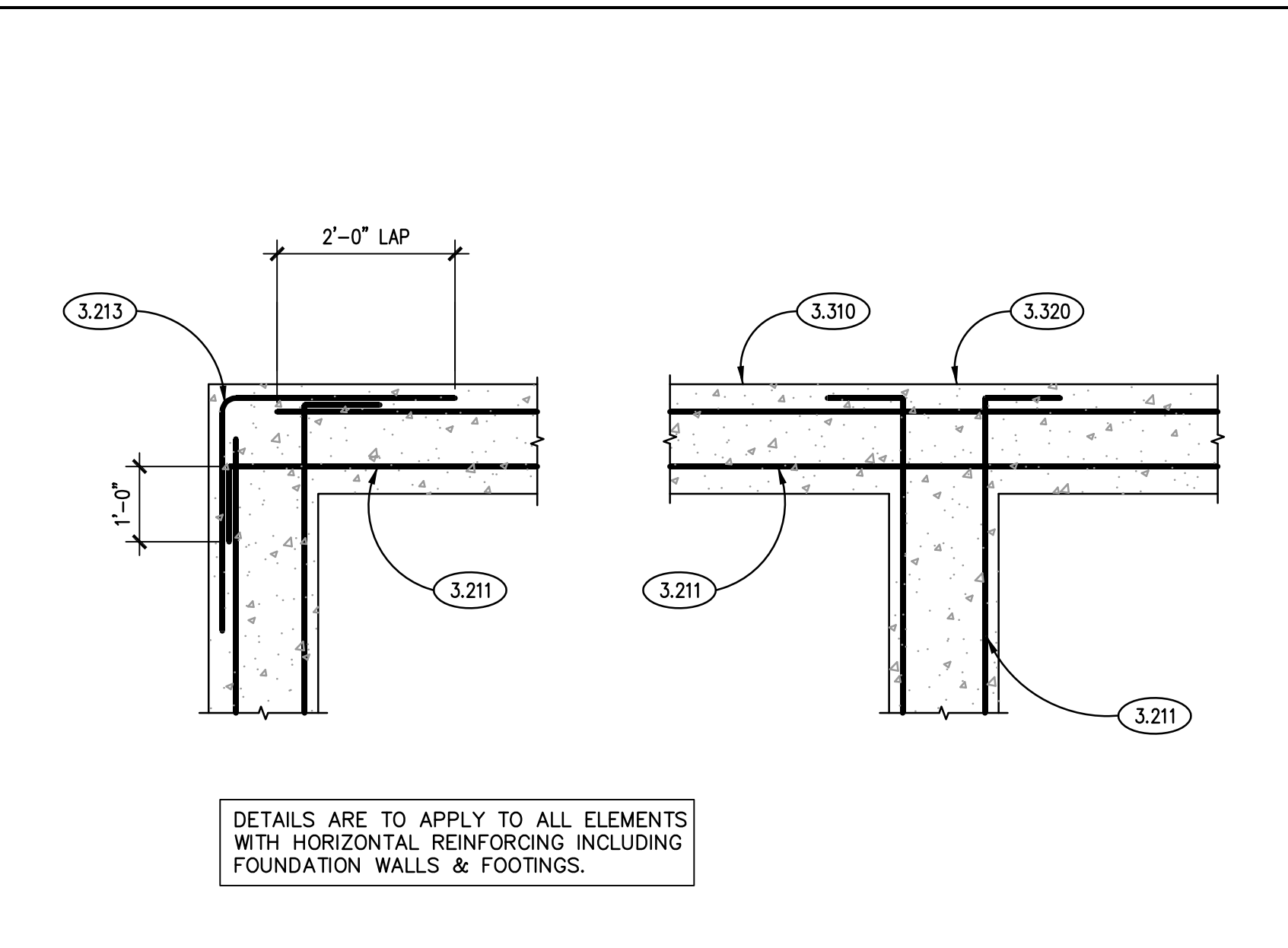
TYPICAL HOUSEKEEPING PAD DETAILS
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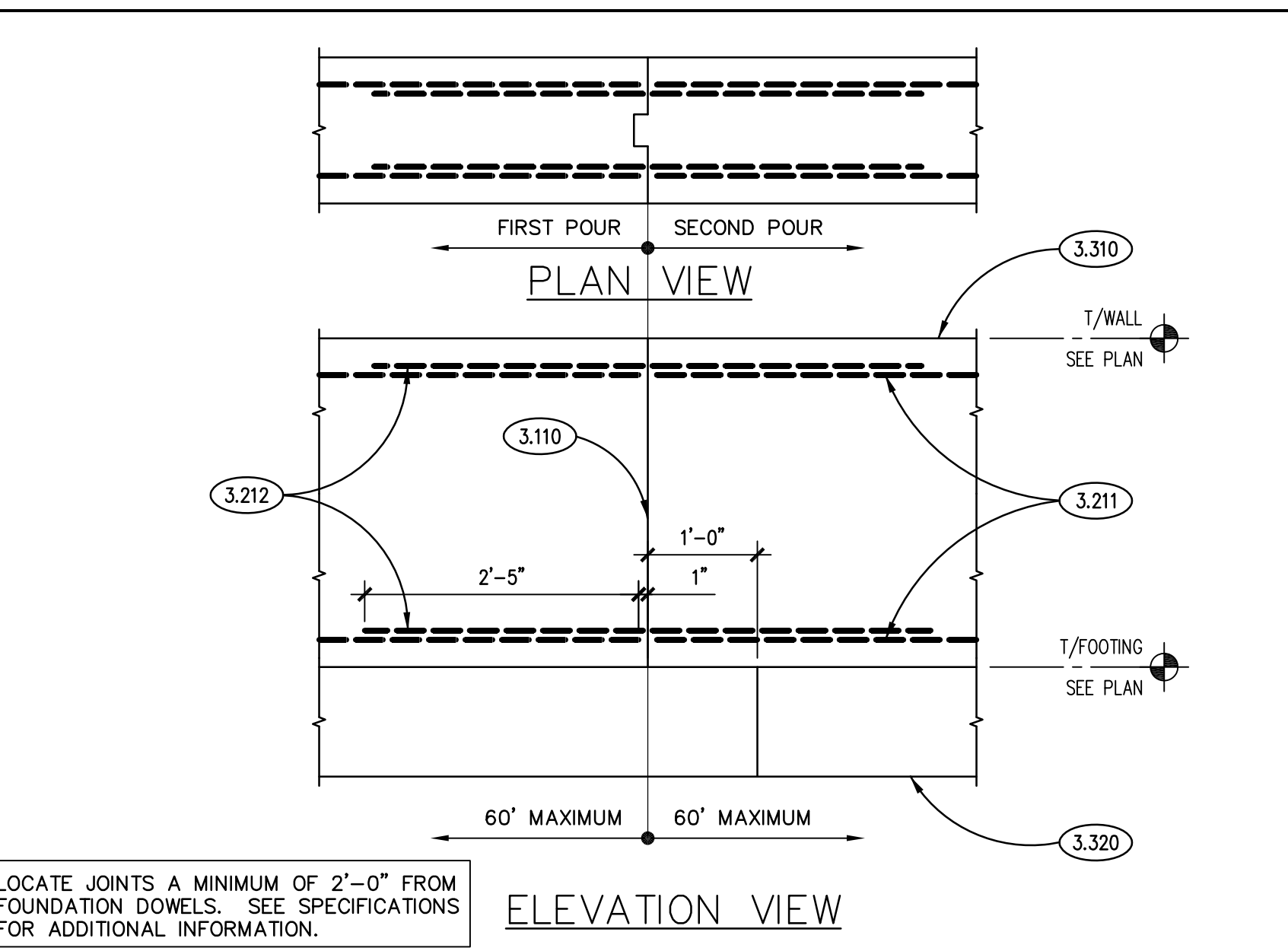
TYPICAL CURB DETAIL
SCALE: 3/4"= 1'-0" 11



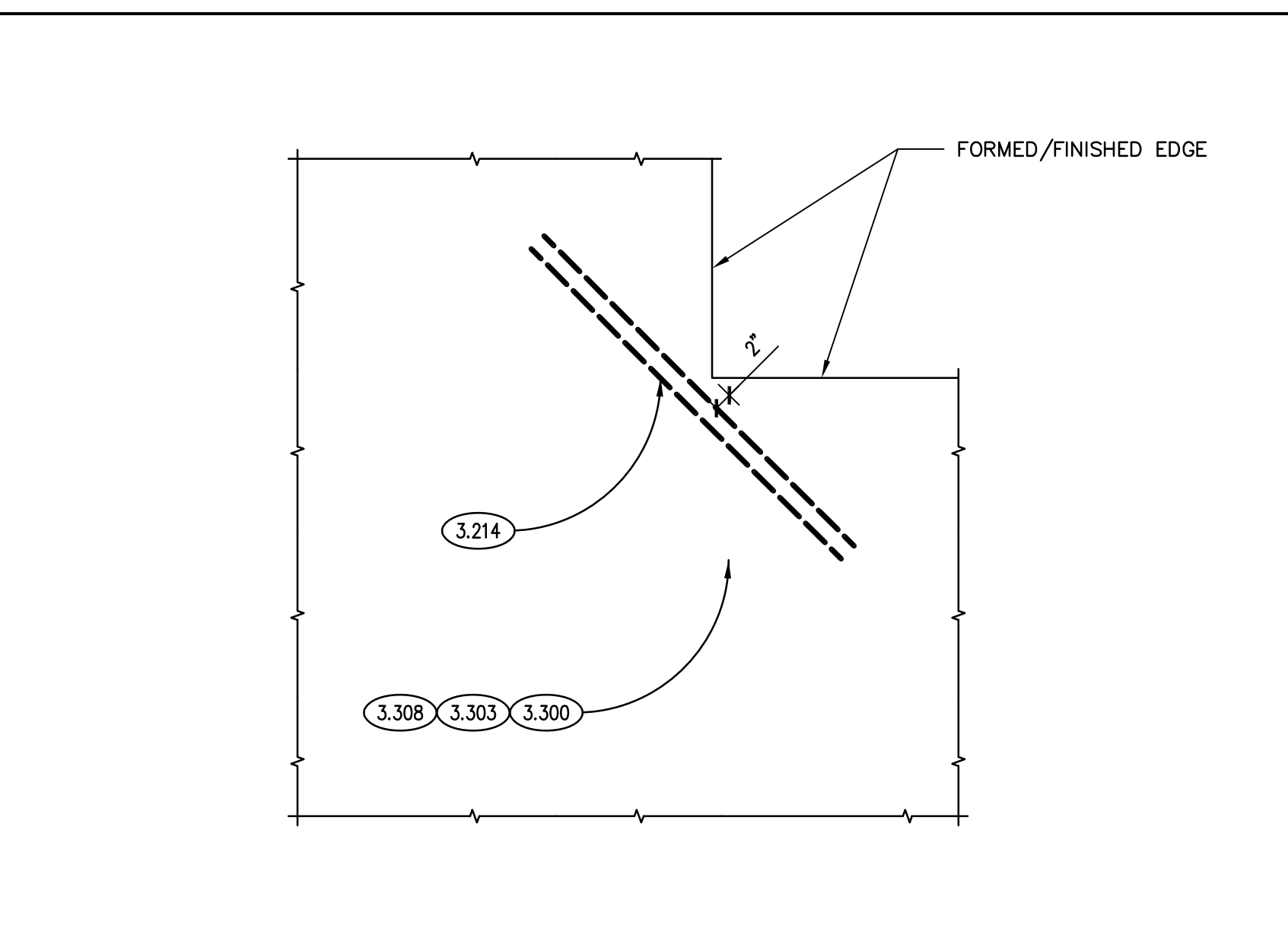
ELEVATOR SUMP PIT
SCALE: N.T.S. 12



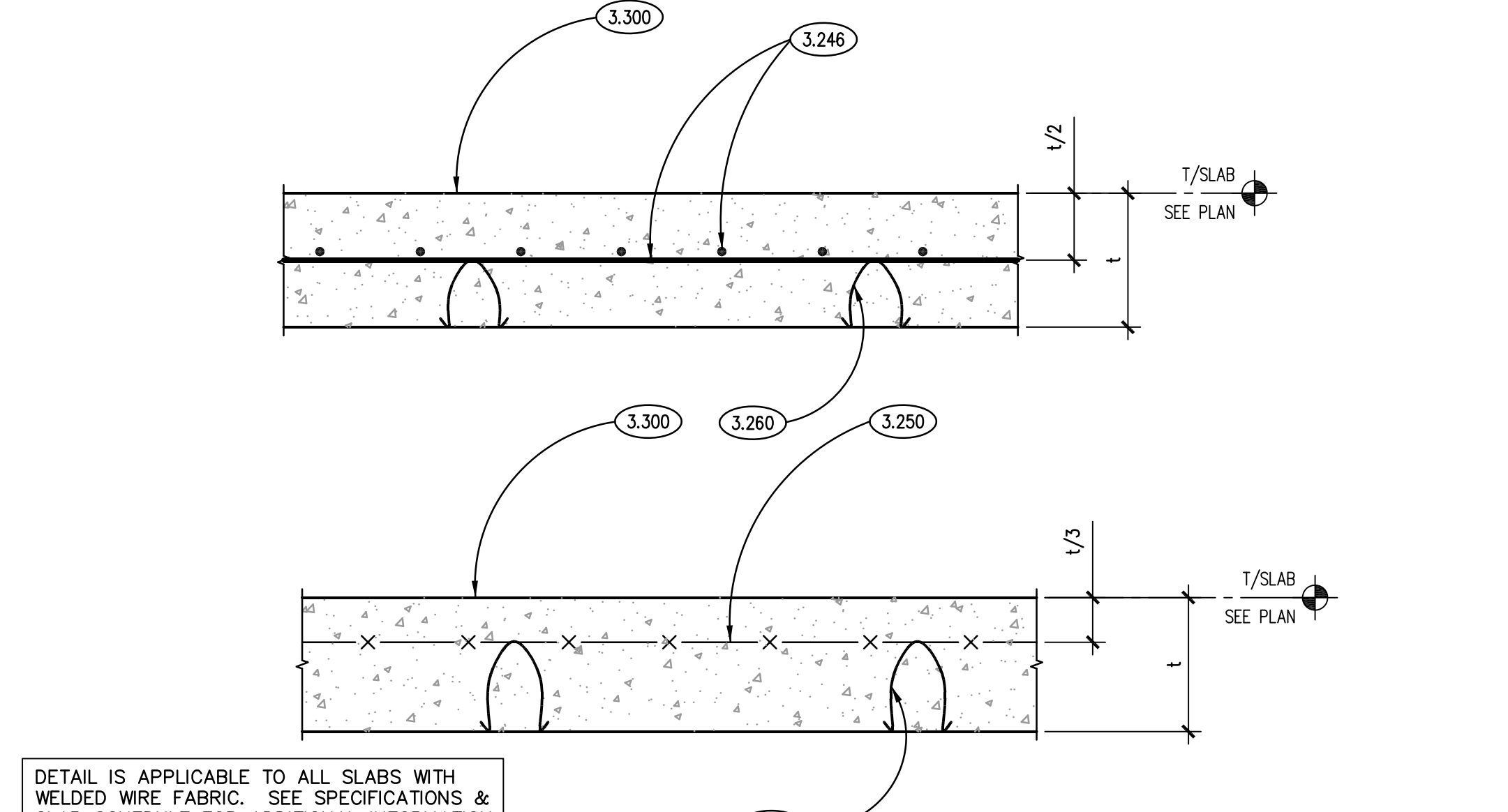
TYPICAL CORNER/INTERSECTION BAR DETAILS
SCALE: N.T.S. 6



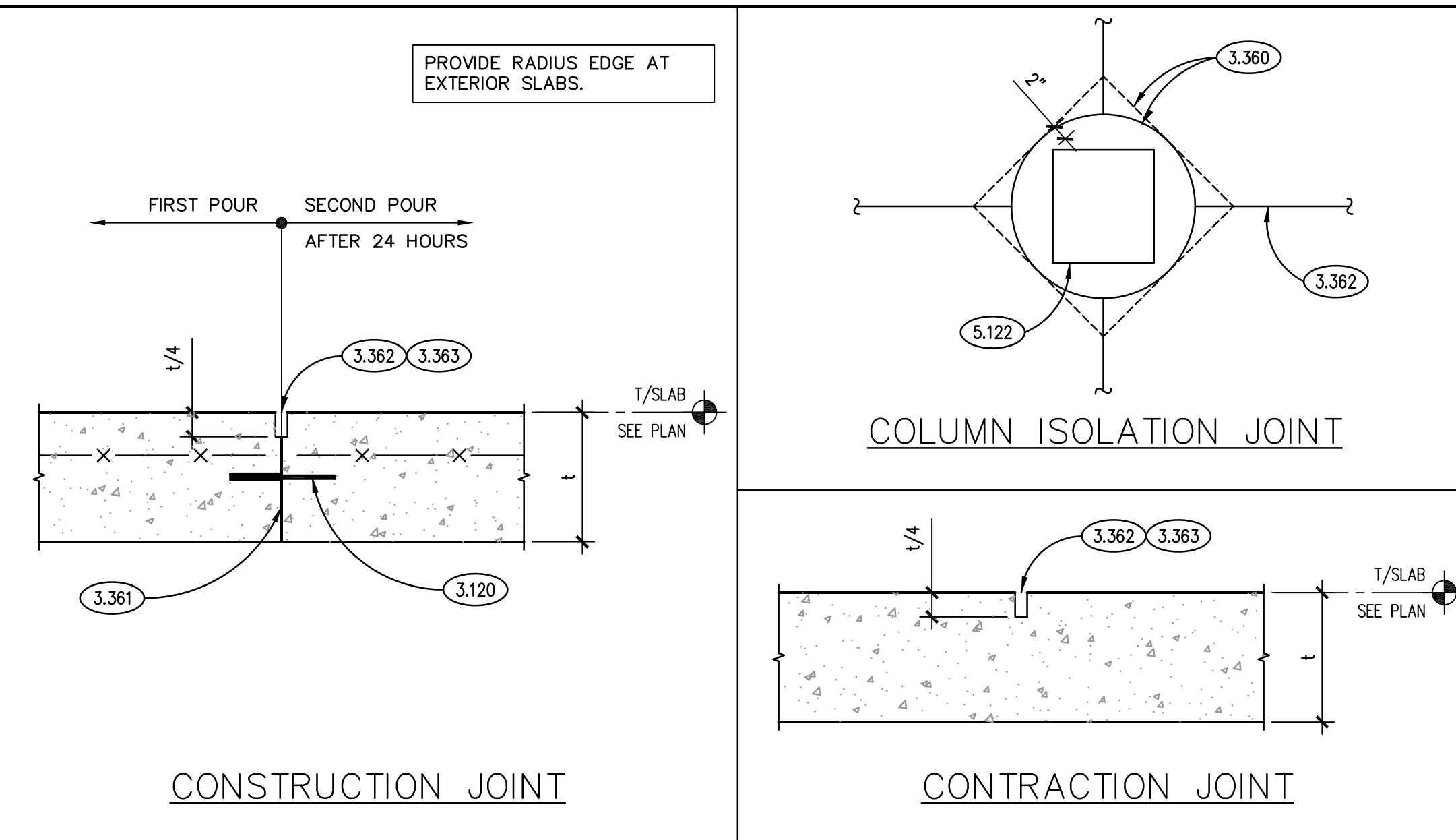
FND. WALL CONSTRUCTION JOINT DETAIL
SCALE: N.T.S. 7



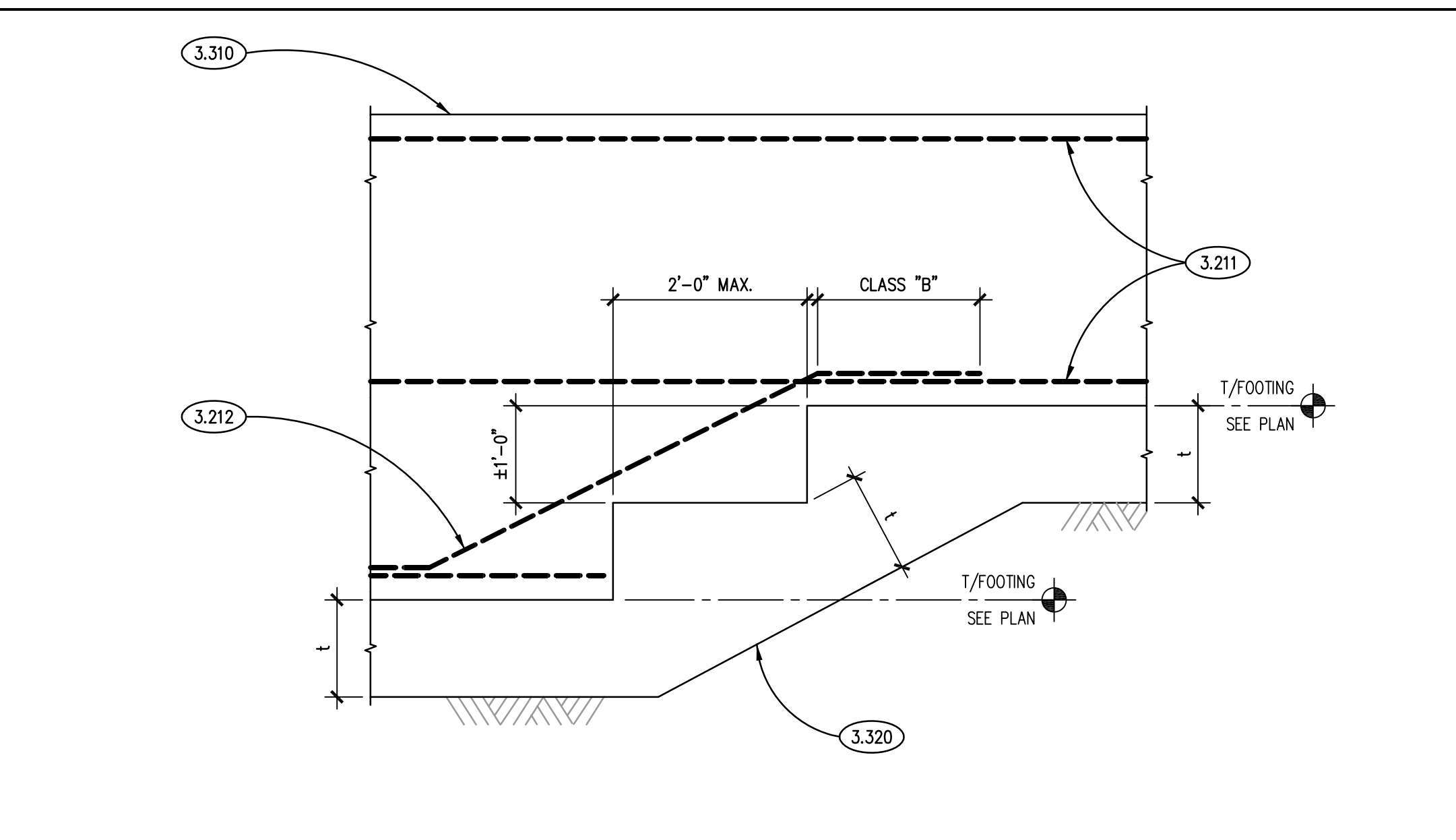
TYP. SLAB RE-ENTRANT CORNER BAR DETAIL
SCALE: N.T.S. 8



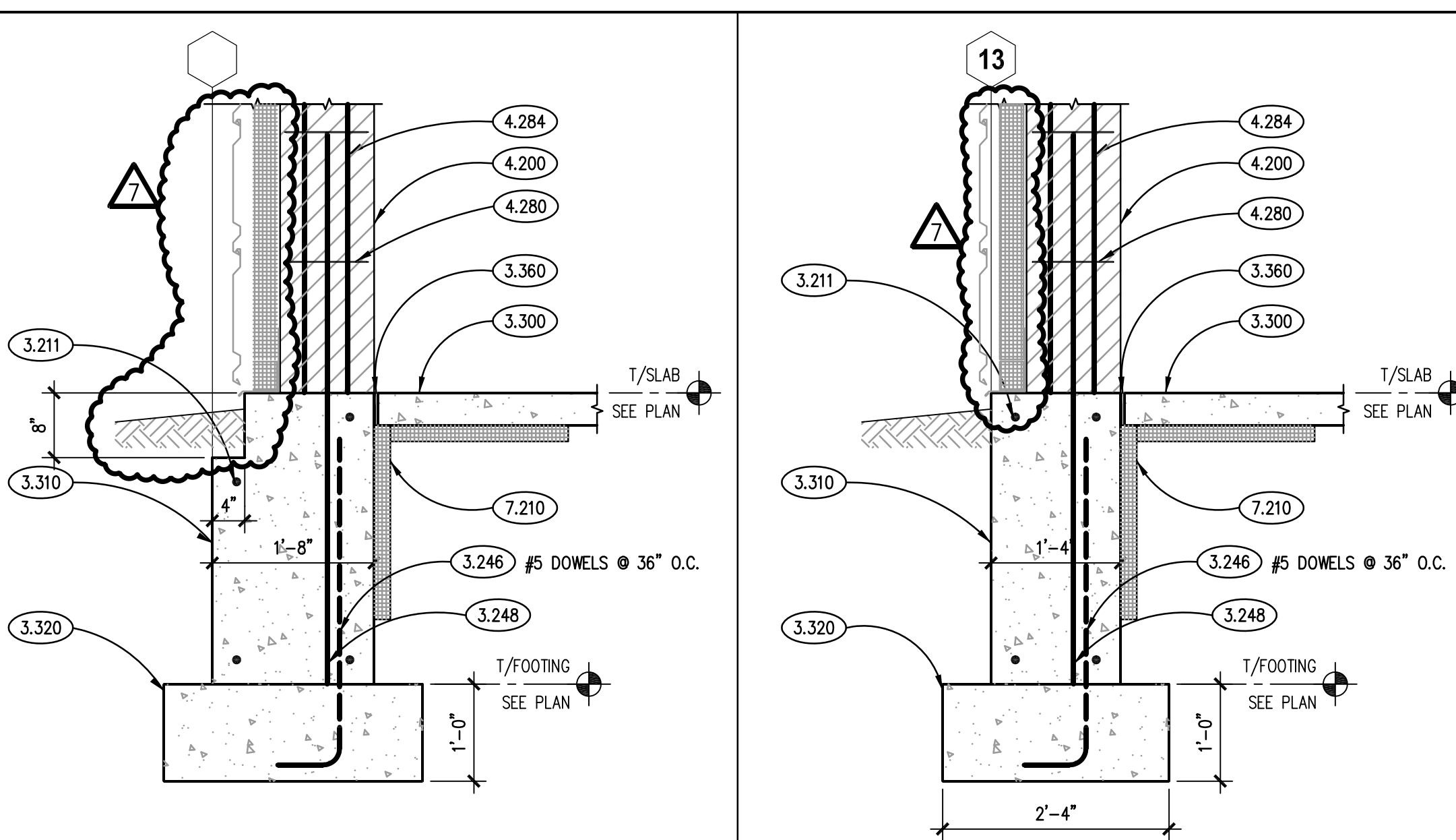
TYPICAL SLAB ON GRADE DETAIL
SCALE: N.T.S. 1



TYPICAL SLAB JOINT DETAILS
SCALE: N.T.S. 2

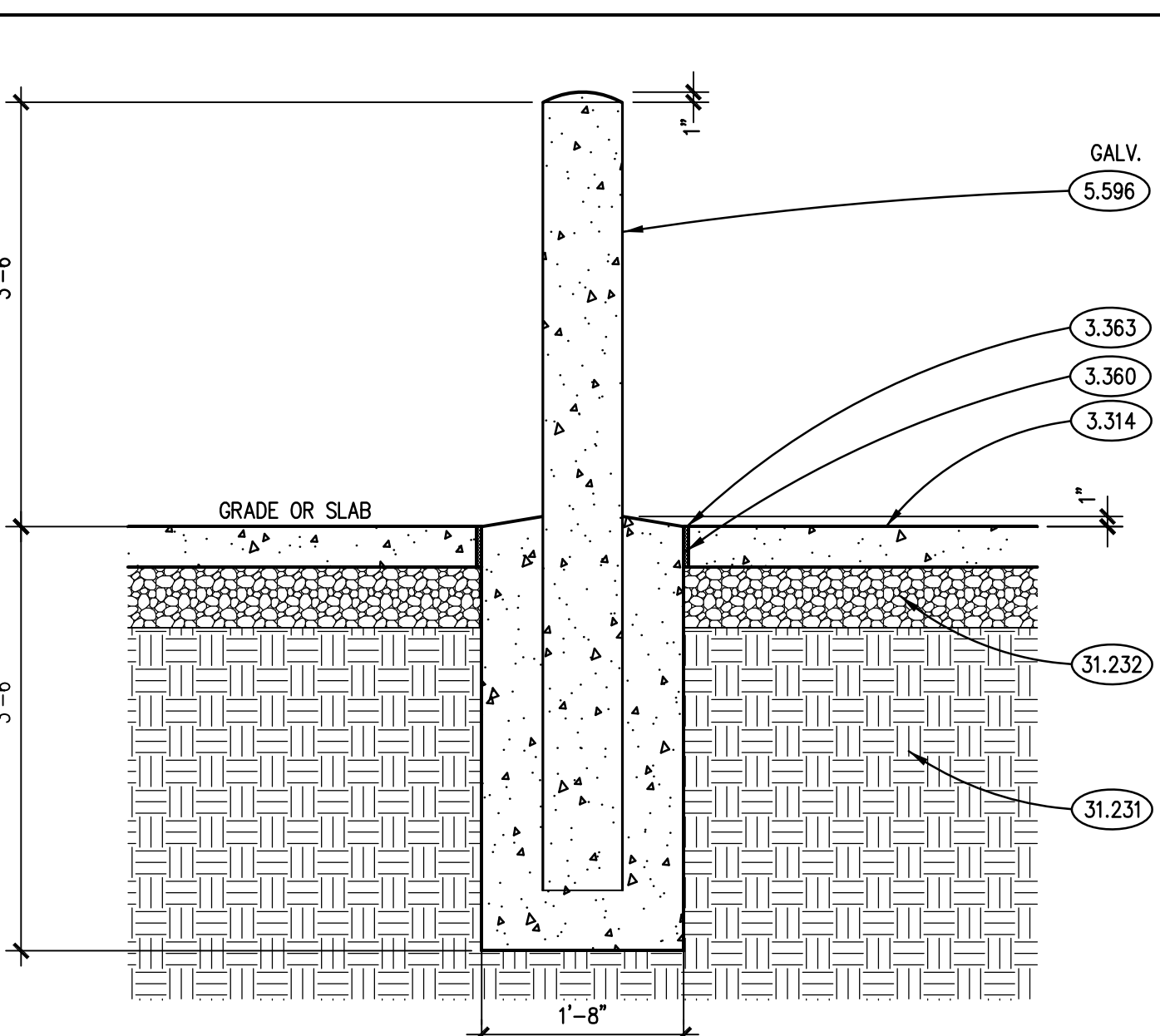


TYPICAL STEP FOOTING DETAIL
SCALE: N.T.S. 3

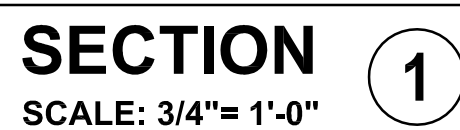
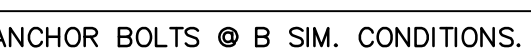
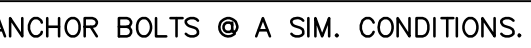
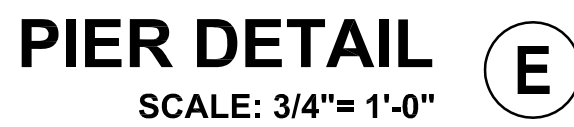
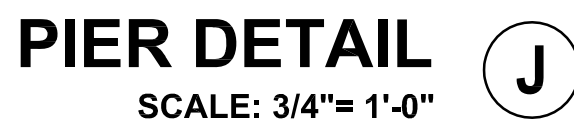


SECTION 4B
SCALE: 3/4"= 1'-0" 4B

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

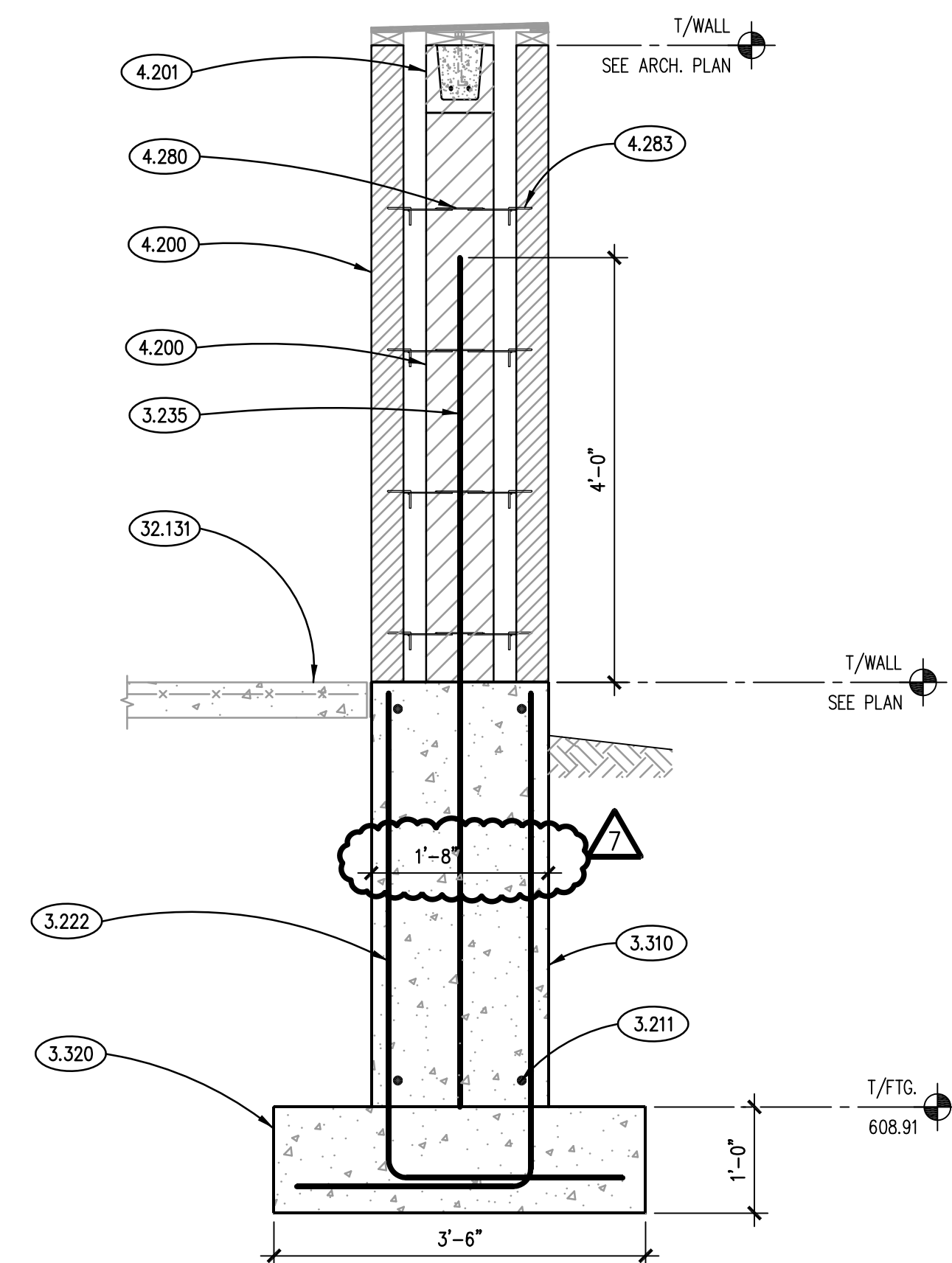


TYPICAL BOLLARD DETAIL
SCALE: N.T.S. 13



KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 3.2111 CONCRETE REINFORCING: CONTINUOUS WALL/FOOTING REINFORCING. REFER TO SECTIONS AND SCHEDULES. PROVIDE (2)-#5 BARS U.O. OR DEPICTED.
- 3.2126 CONCRETE REINFORCING: CONTINUOUS REINFORCING B.C. #5 U.O.. QUANTITY AS DEPICTED.
- 3.2222 CONCRETE REINFORCING: #5 DOMELS @ 2'-0" O.C. HORIZONTAL LEGS AS DEPICTED, VERTICAL LEG= AS DEPICTED.
- 3.2235 CONCRETE REINFORCING: #5 DOMELS @ 2'-0" O.C. AS DEPICTED.
- 3.2423 CONCRETE REINFORCING: #6 VERTICAL BARS HOOKED INTO PILE CAP (QUANTITY AS DEPICTED) AND #4 TIES @ FOLLOWING SPACING:-(3) @ 2', (1) @ 4', R @ 12" U.O. PIER DIMENSIONS AS NOTED.
- 3.2446 CONCRETE REINFORCING: PROVIDE AS NOTED.
- 3.3000 CAST-IN-PLACE CONCRETE: INTERIOR SLAB-ON-GRADE. REFER TO PLAN, SCHEDULE AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 3.3100 CAST-IN-PLACE CONCRETE: FOUNDATION WALL. REFER TO PLAN, DETAILS AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 3.3155 CAST-IN-PLACE CONCRETE: CONCRETE PIER. REFER TO PLAN AND DETAILS FOR REQUIRED REINFORCING. REFER TO SPECIFICATIONS FOR MIX TYPE AND FINISH.
- 3.3200 CAST-IN-PLACE CONCRETE: CONTINUOUS WALL FOOTING. REFER TO PLAN, SCHEDULE AND SPECIFICATIONS FOR THICKNESS, REINFORCING AND MIX TYPE.
- 3.3711 CAST-IN-PLACE CONCRETE MISCELLANEOUS: ANCHOR RODS (INSTALLED ONLY).
- 4.2000 UTILITY MASONRY: REFER TO PLANS, SCHEDULES, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION INCLUDING BLOCK SIZE, COURSING AND FACE BRICK/STONE.
- 4.2011 UTILITY MASONRY: CONTINUOUS BOND BEAM WITH REINFORCING AND GROUT. PROVIDE (2)-#4 BARS U.O.. COORDINATE ELEVATION WITH BEARING CONDITIONS AND ADJACENT WALL CONSTRUCTION. BOND BEAM ELEVATION MAY NOT LIKELY TO COINCIDE WITH BEARING PLATE/GRILLAGE BEAM ELEVATIONS. REINFORCING TO RUN CONTINUOUS THROUGH ALL CONTRA/SOFT JOINTS U.O..
- 4.2800 MASONRY ANCHORAGE AND REINFORCEMENT: CONTINUOUS JOINT REINFORCEMENT; 16" O.C. VERTICAL SPACING.
- 4.2831 MASONRY ANCHORAGE AND REINFORCEMENT: MASONRY VENEREY TIE.
- 5.1011 STRUCTURAL STEEL: STEEL COLUMN. REFER TO PLAN AND SCHEDULE.
- 5.1122 STRUCTURAL STEEL: BASEPLATE & SETTING PLATE. REFER TO COLUMN SCHEDULE.
- 5.1123 STRUCTURAL STEEL: ANCHOR RODS. REFER TO COLUMN SCHEDULE.
- 5.4000 COLD FORMED METAL FRAMING: STRUCTURAL STUD/JOIST AS INDICATED. CONNECT TO SUPPORTING ELEMENTS USING INDUSTRY STANDARD LIGHT GAUGE CLIPS AND ANCHORS. SUBMIT PROPOSED CONNECTIONS ELEMENTS TO ENGINEER FOR APPROVAL. SPACING TO MATCH SURROUNDING FRAMING U.O..
- 5.4009 COLD FORMED METAL FRAMING: BASE CONNECTION OF METAL STUD BY MANUFACTURER. LIGHT GAGE METAL STUD MANUFACTURER TO PROVIDE CONNECTION AS REQUIRED AT FOUNDATION WALL PER THE LOADS INDICATED ON PROJECT DRAWINGS. SUBMIT PROPOSED CONNECTION TO ENGINEER OF RECORD FOR APPROVAL.
- 7.2100 THERMAL INSULATION: BOARD INSULATION. REFER TO SPECIFICATIONS. PROVIDE 25 PSI ALONG VERTICAL SURFACE OF FOUNDATION WALL AND 60 PSI ALONG THE HORIZONTAL SURFACE BELOW SLAB.
- 32.1311 CONCRETE PAVING: PEDESTRIAN WALK; REFER TO CIVIL DRAWINGS AND SPECIFICATIONS.



SECTION 2
SCALE: 3/4"= 1'-0"

ISSUED	
10/01/18	B.P. #1 - ADDENDUM #1
10/10/18	B.P. #1 - ADDENDUM #3
10/23/18	B.P. #2 - MISC. STL/ STRUC./ ENCL.
11/12/18	B.P. #1 - PLAN REVIEW COMMENTS
10/31/18	B.P. #2 - ADDENDUM #1
11/02/18	B.P. #2 - ADDENDUM #2

JOB NO.	17-401-11
DRAWN	VA
CHECKED	JM
APPROVED	JM

PIER DETAILS AND SECTIONS

SHEET NUMBER

S401

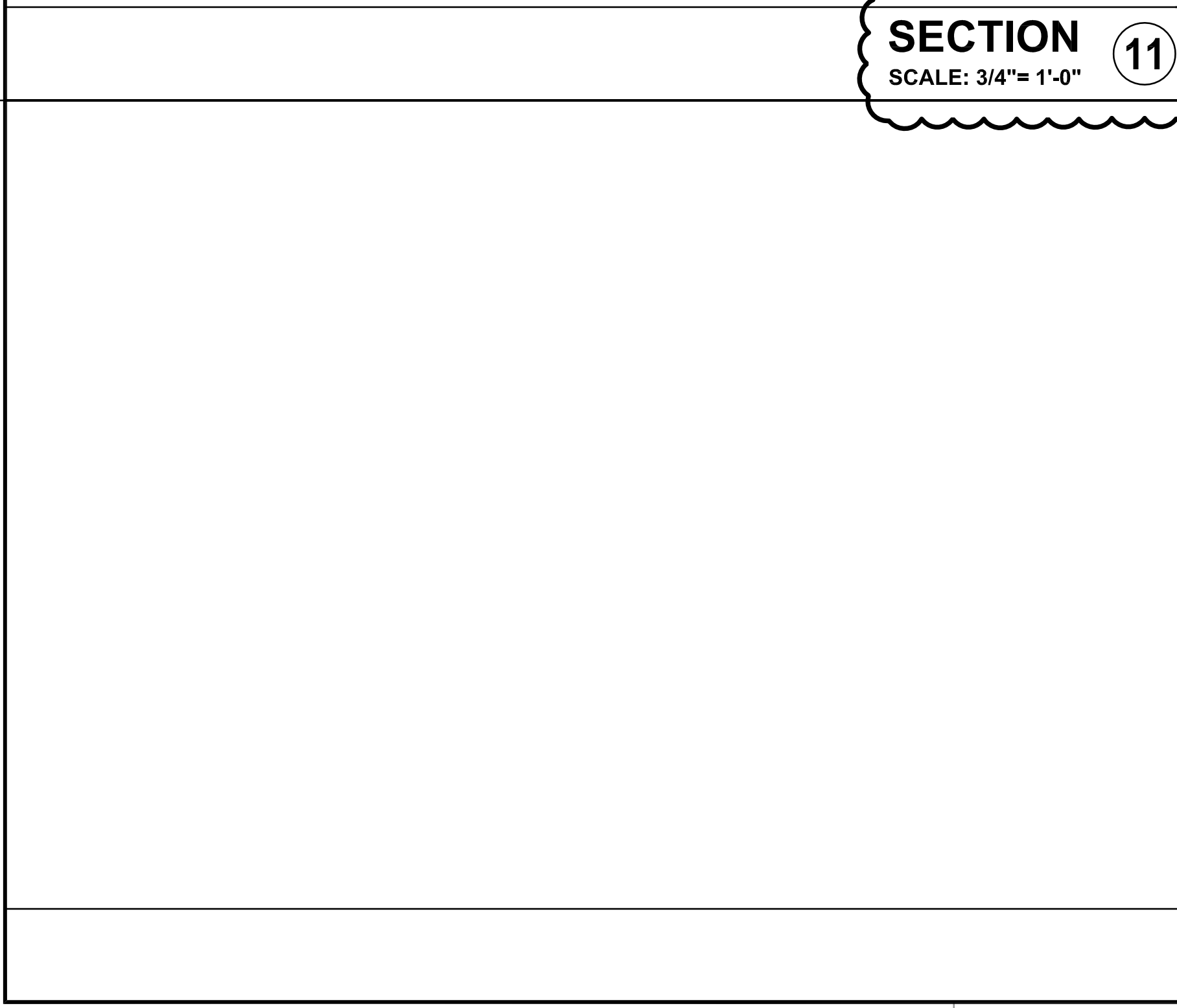
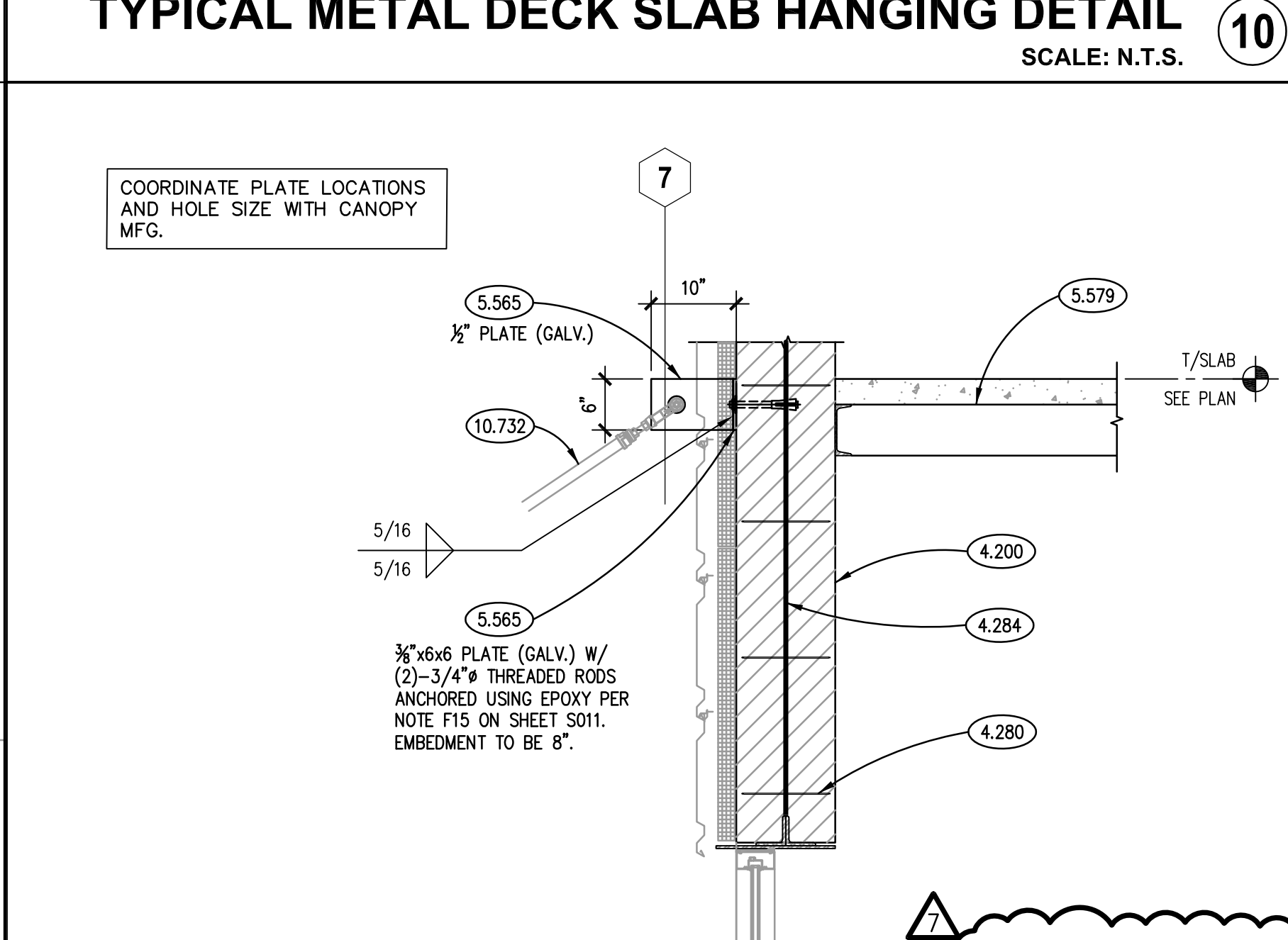
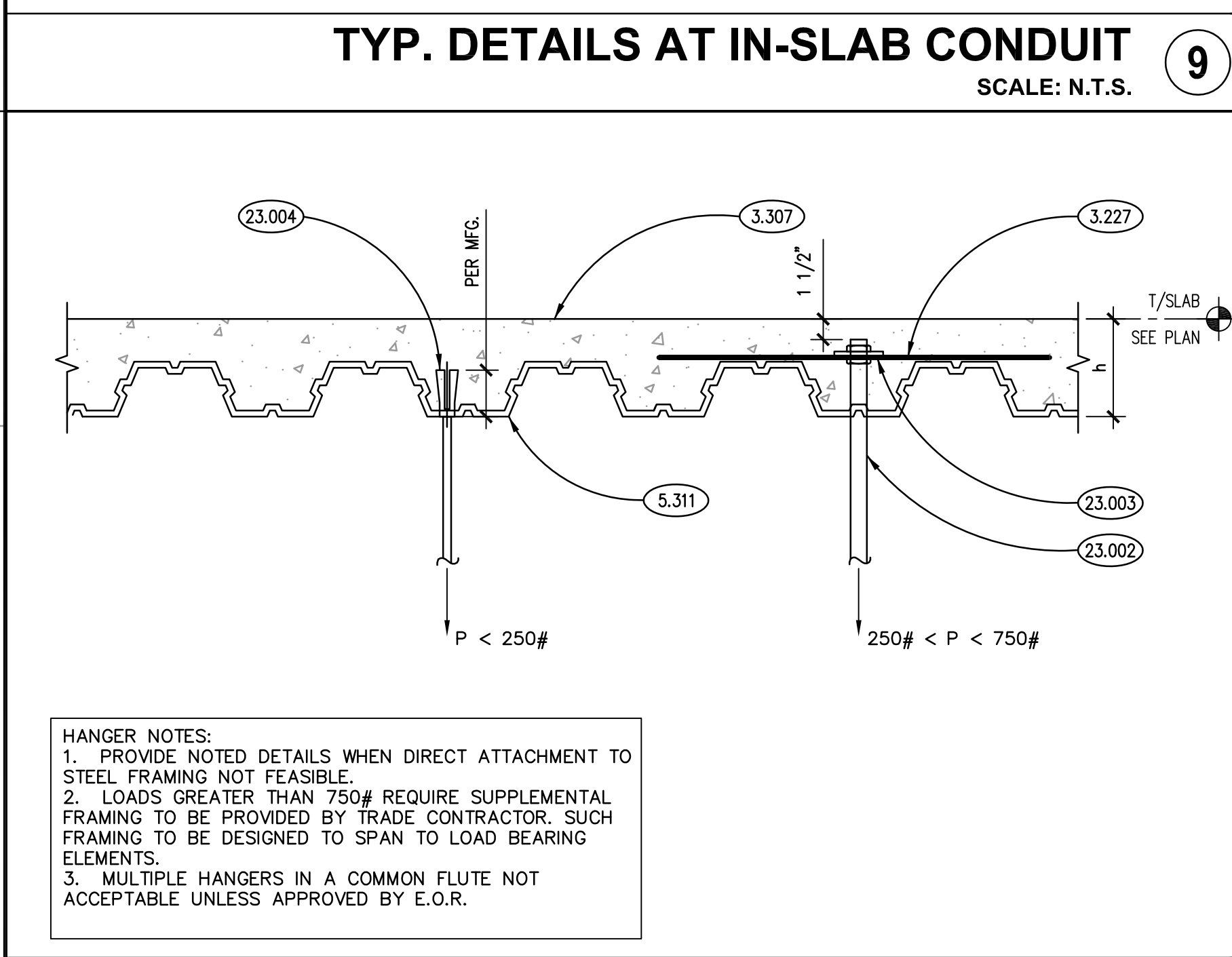
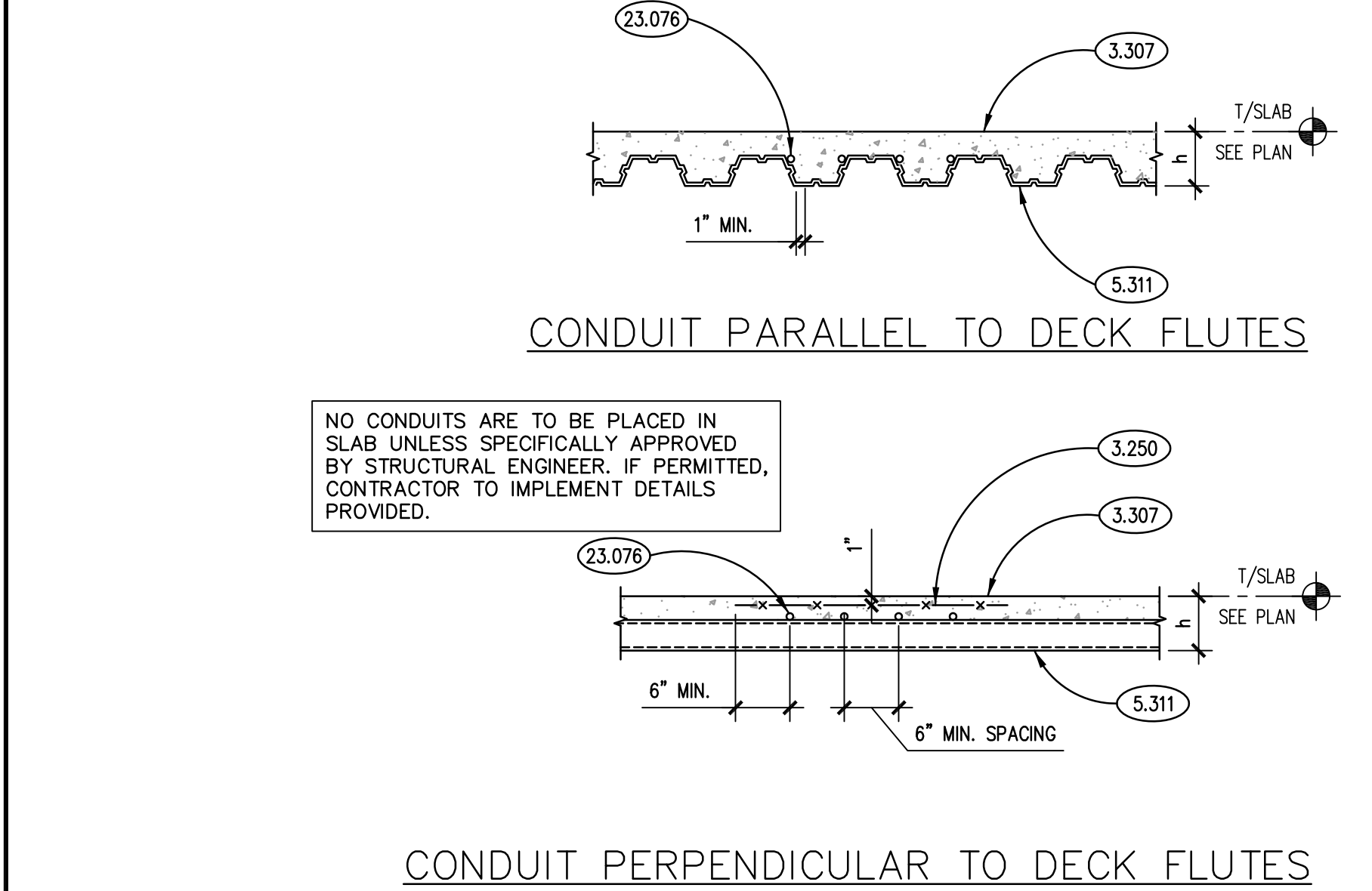
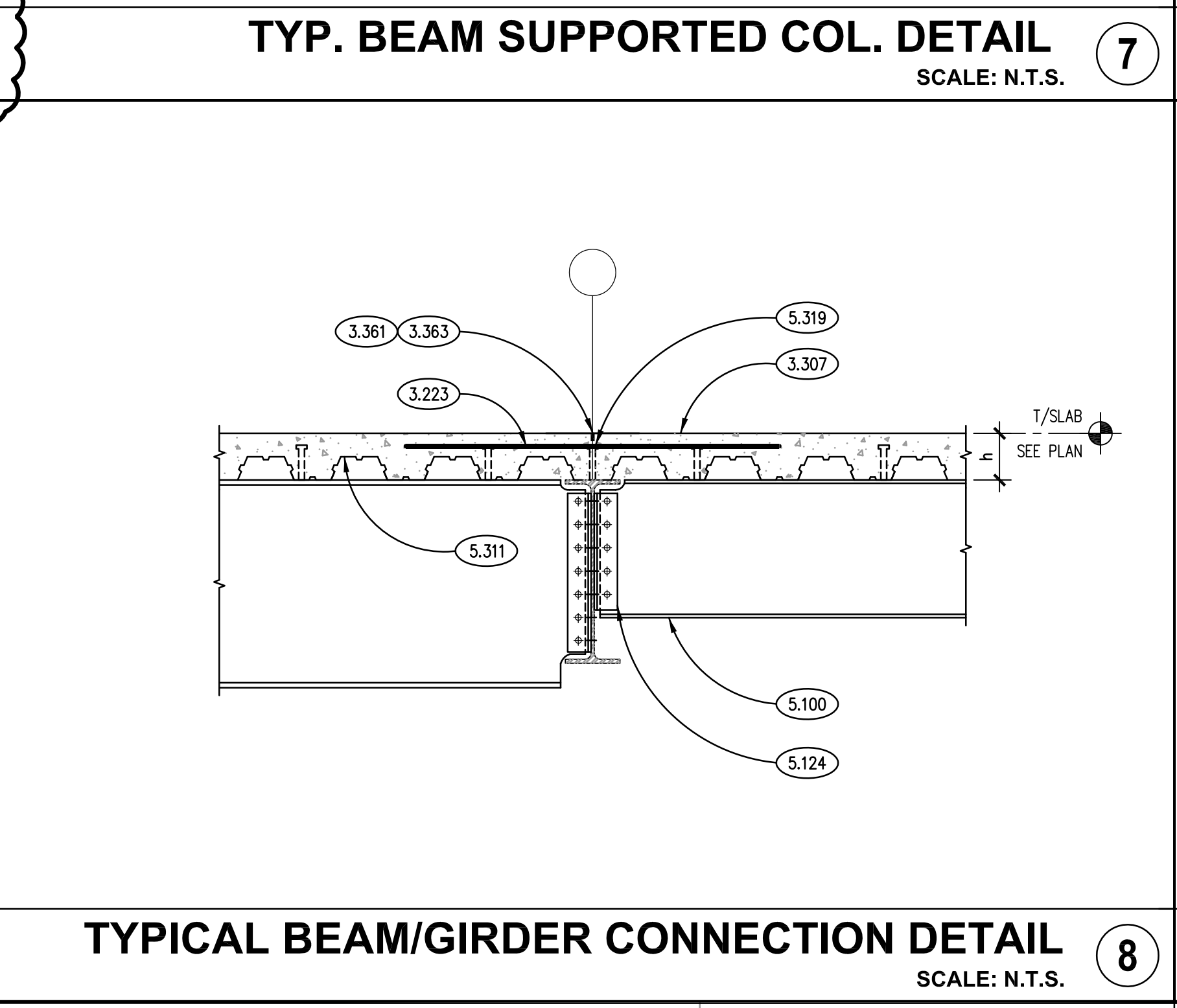
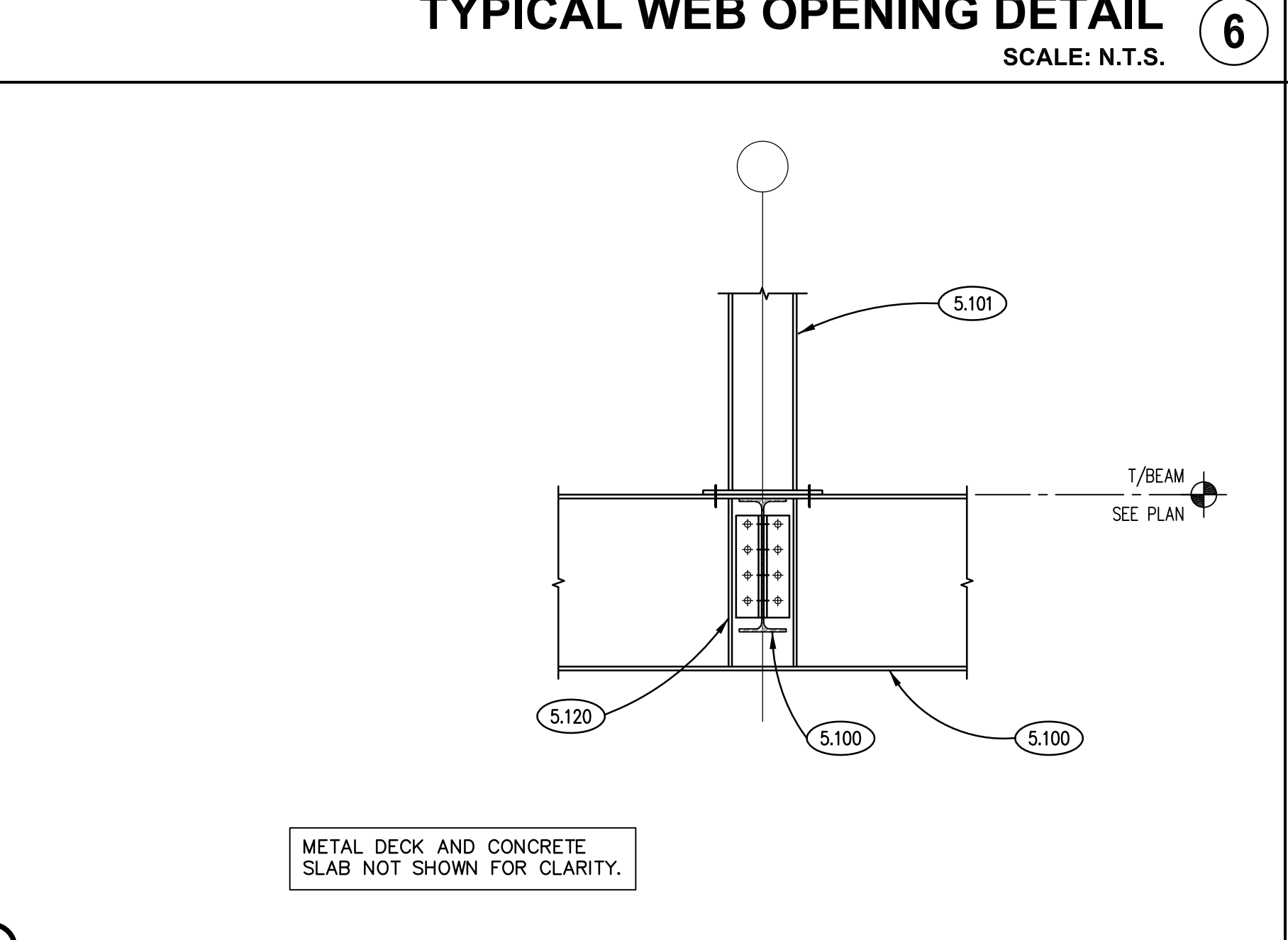
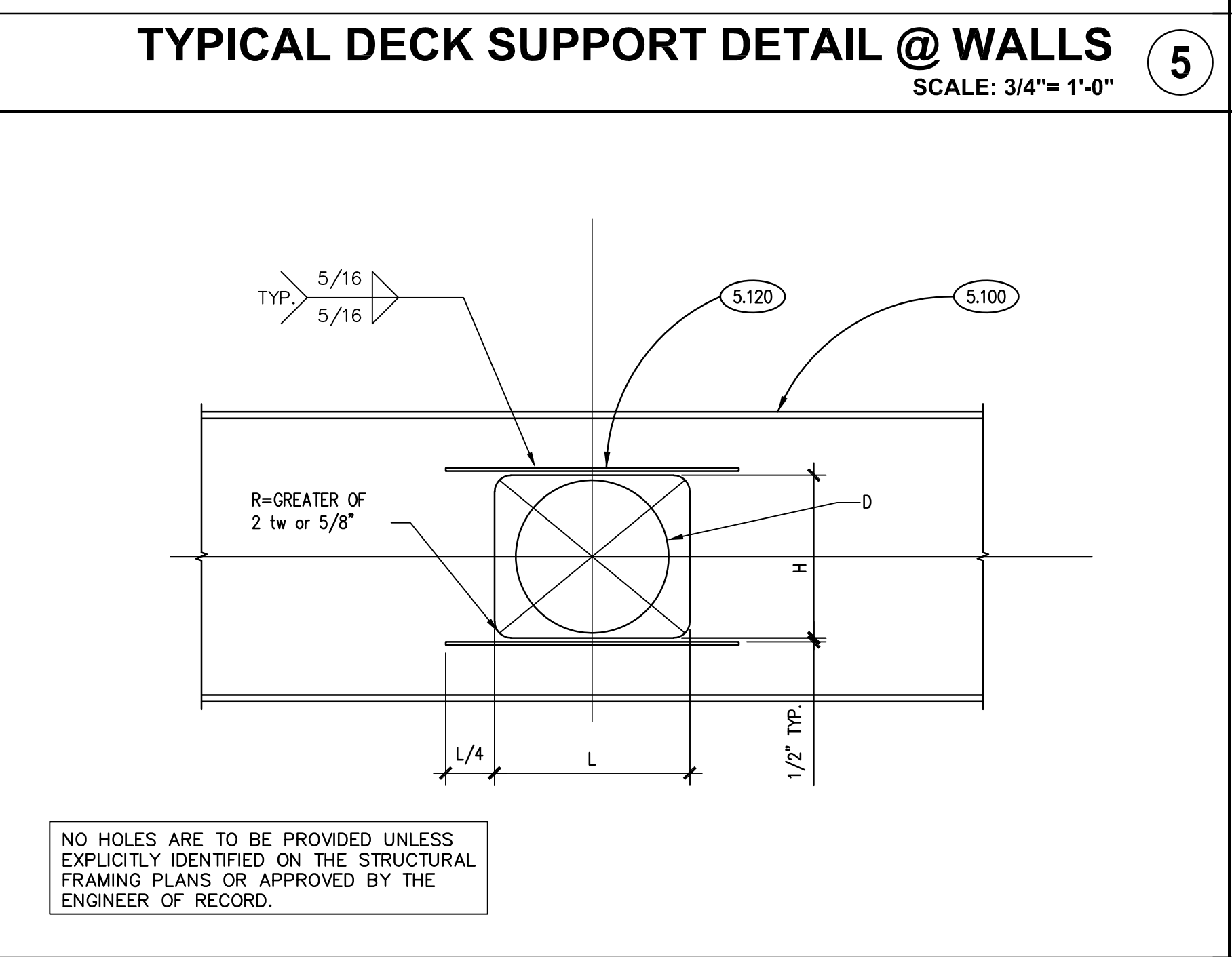
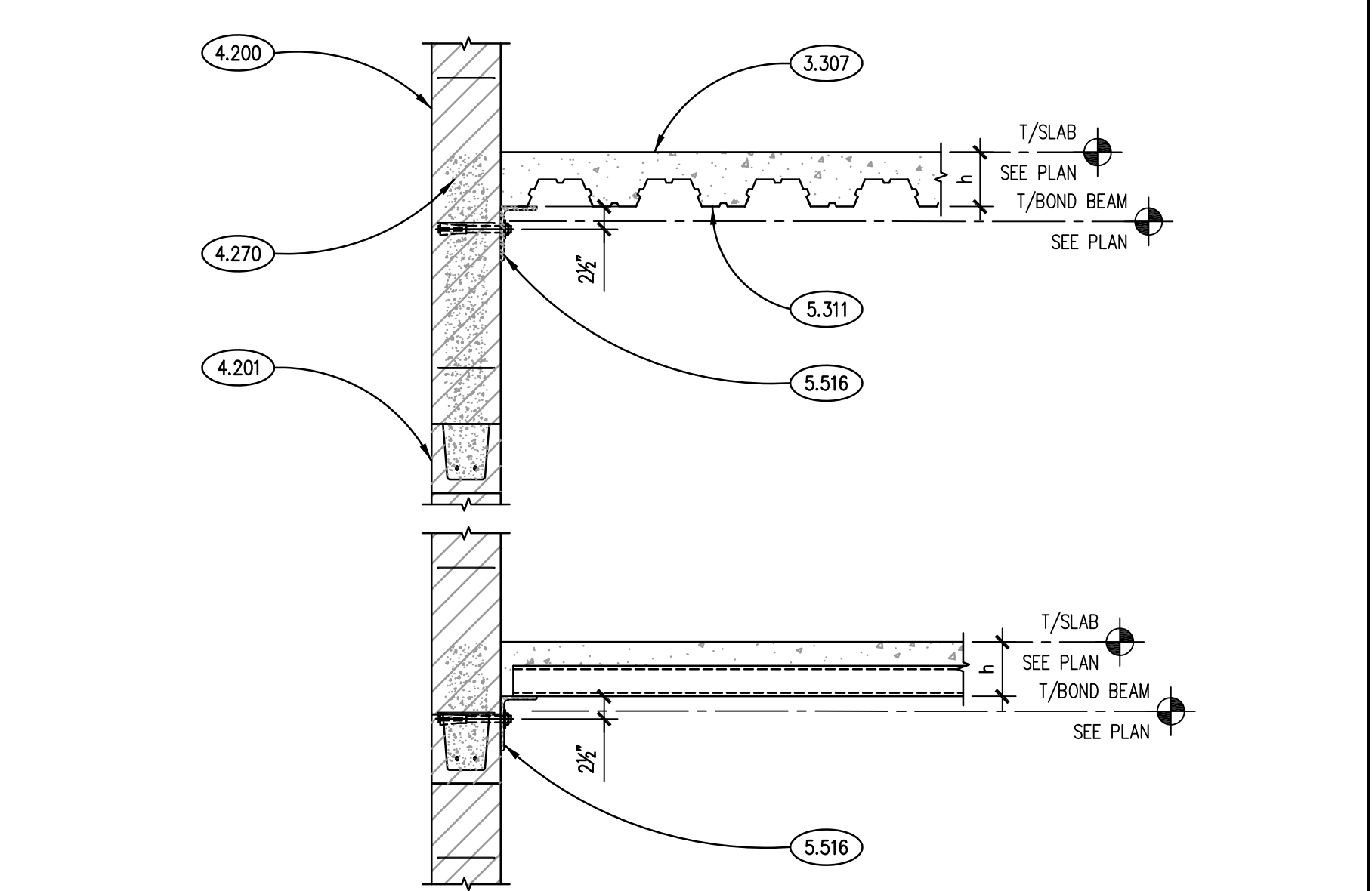
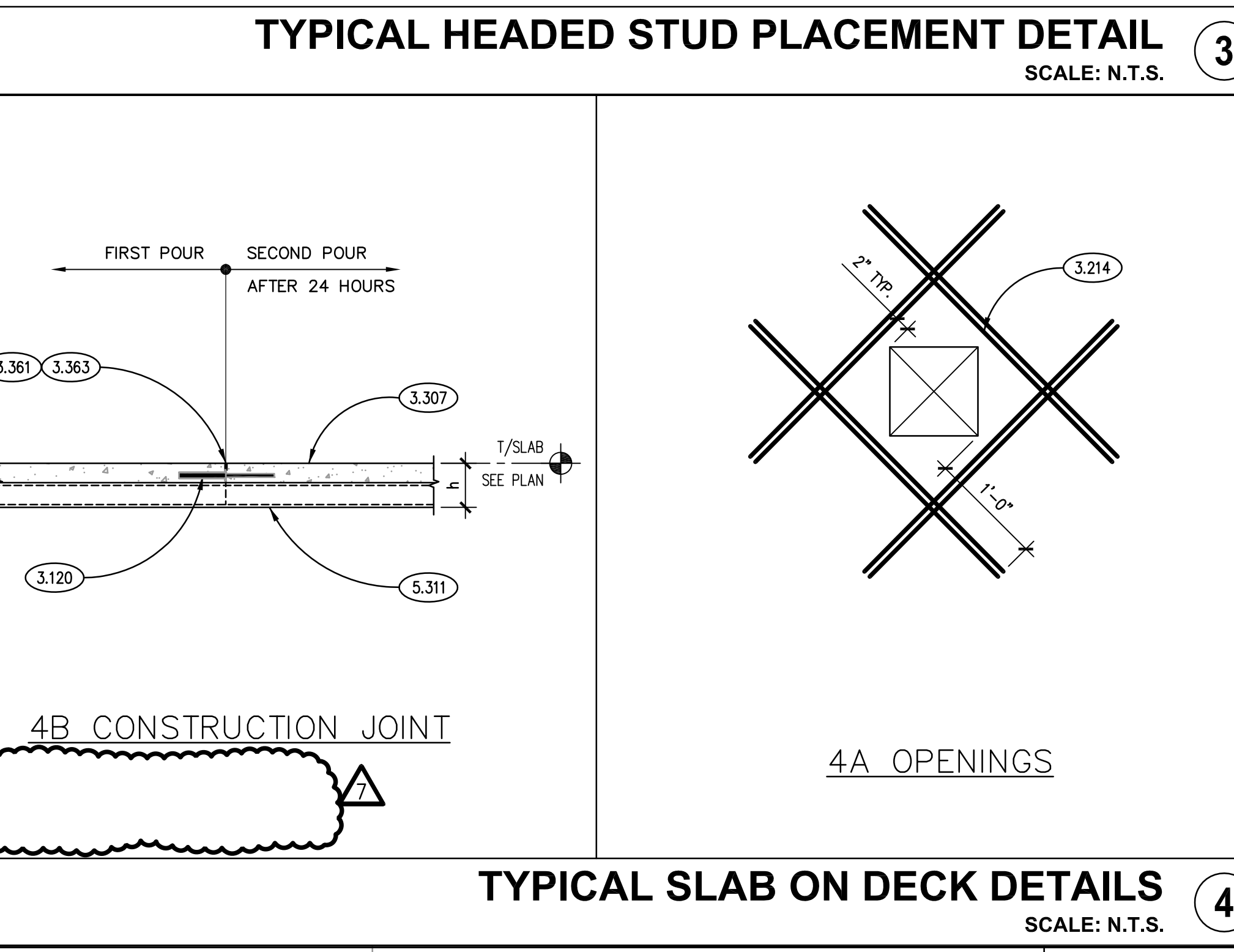
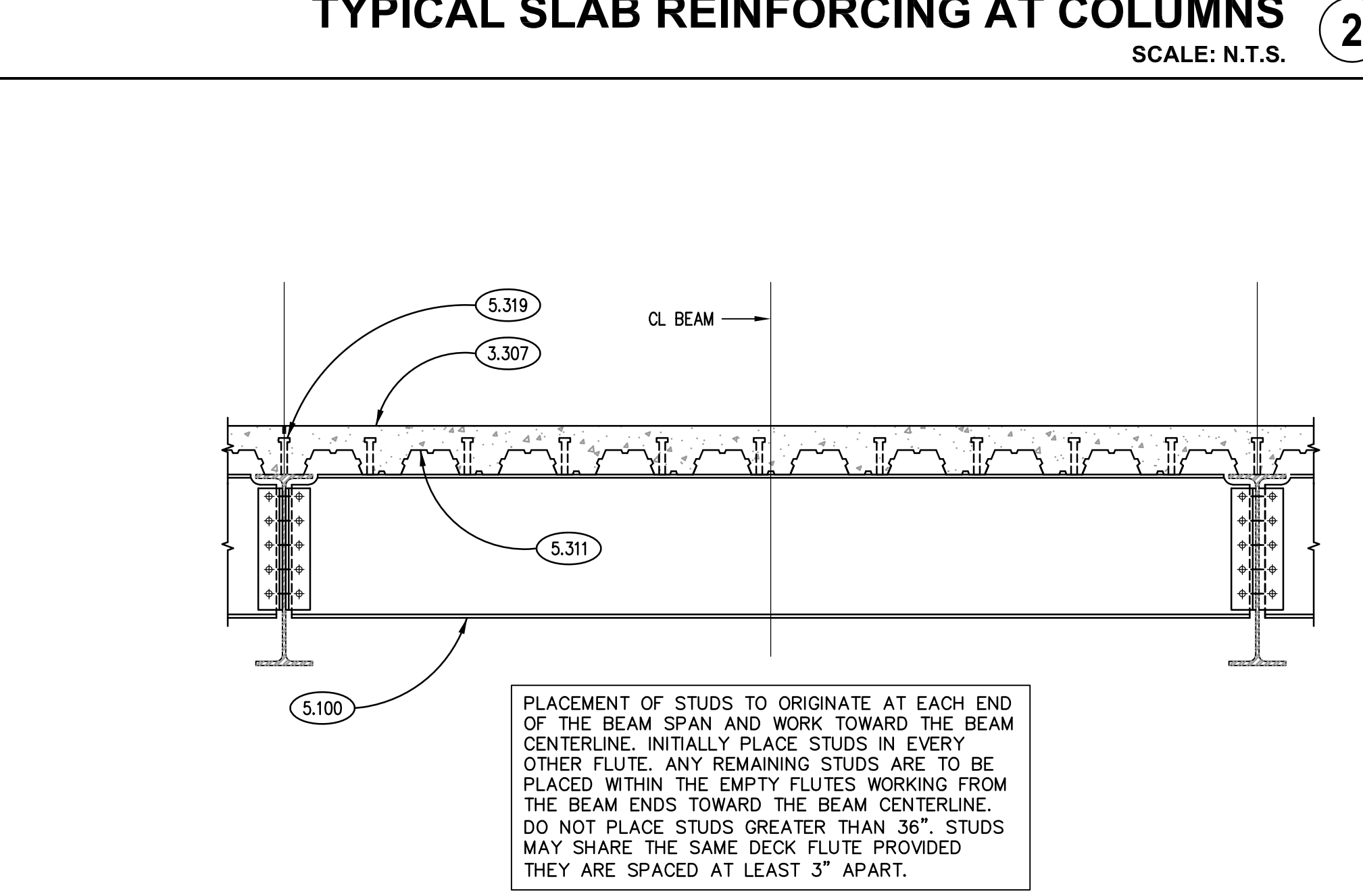
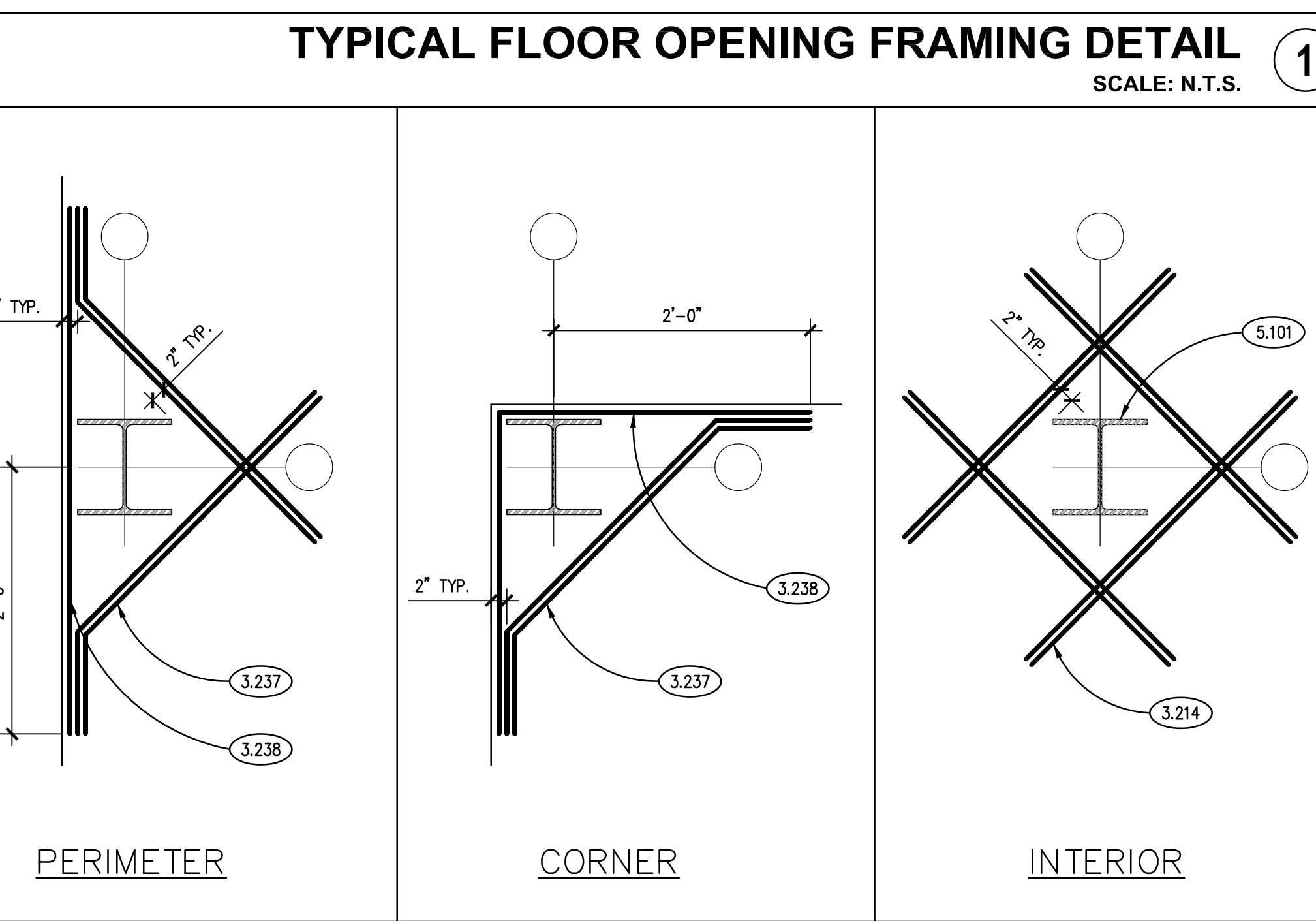
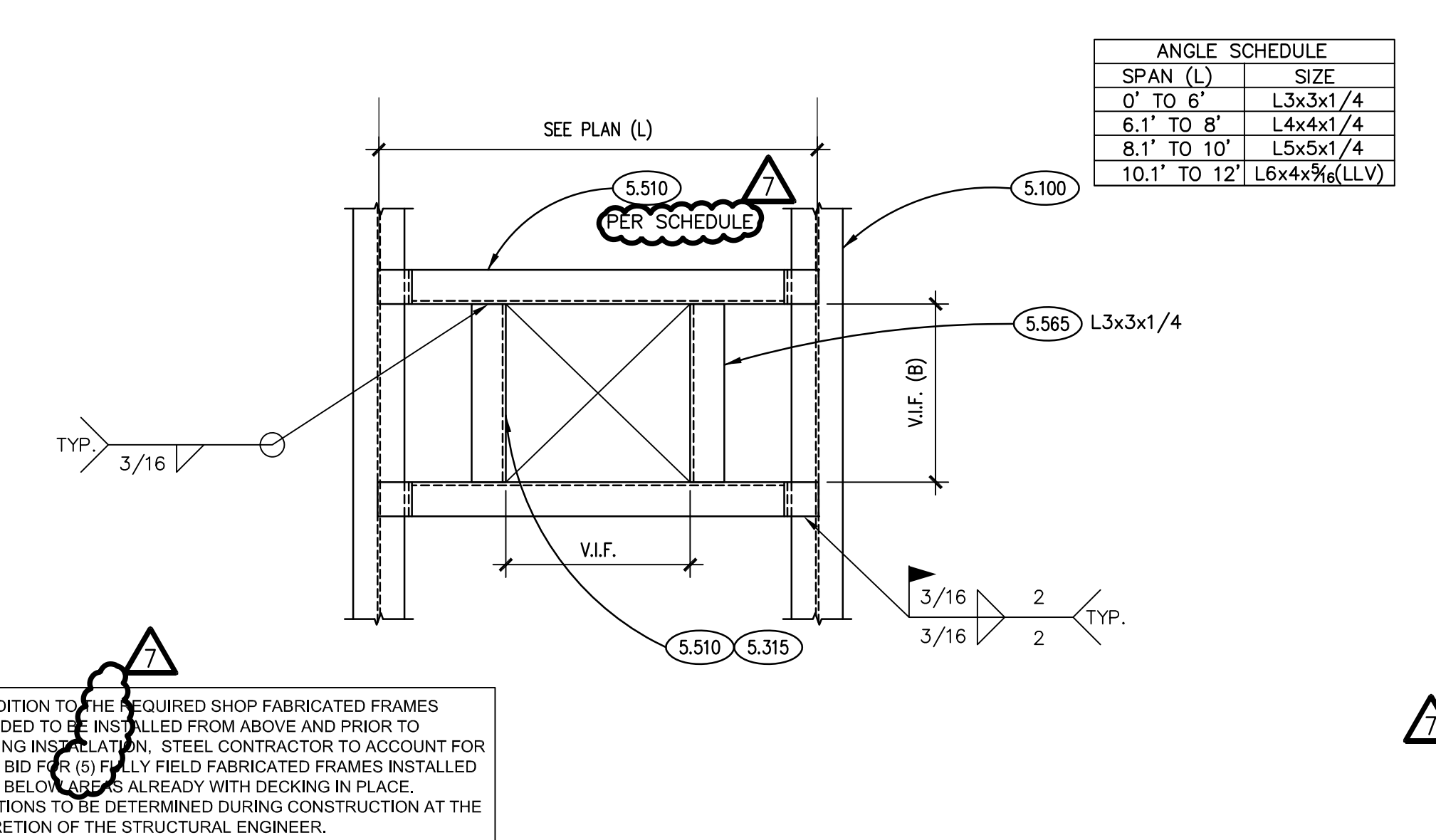
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3	10/01/18	B.P. #2 - MISC. ST. L. STRUCT. ENCL.	ADDENDUM #3
4	10/01/18	B.P. #2 - MISC. ST. L. STRUCT. ENCL.	ADDENDUM #4
5	10/01/18	B.P. #2 - MISC. ST. L. STRUCT. ENCL.	ADDENDUM #5
6	10/01/18	B.P. #2 - MISC. ST. L. STRUCT. ENCL.	ADDENDUM #6
7	11/02/18	B.P. #2 - ADDENDUM #2	ADDENDUM #7

JOB NO.	17-401-1124
DRAWN	VAD
CHECKED	JMB
APPROVED	JMB

SHEET TITLE	STANDARD FLOOR FRAMING SECTIONS AND DETAILS
SHEET NUMBER	

KEYNOTES

- KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.
- 3.120 CONCRETE FORMING AND ACCESSORIES: 1/4" DIAMOND DOWEL SYSTEM @ 1'-0" O.C.
- 3.214 CONCRETE REINFORCING: (2)-#4x4'-0" LONG DOWELS CENTERED ON JOINT AND SLAB/WALL DEPTH.
- 3.223 CONCRETE REINFORCING: #4x4'-0" LONG BARS AT 2'-0" O.C. PROVIDE AT ALL ORDER LINES, LOAD BEARING WALLS AND DECK TRANSITIONS U.N.O.
- 3.227 CONCRETE REINFORCING: (1)-#4x1'-6" LONG BAR ON EACH SIDE OF HANGER ROD.
- 3.237 CONCRETE REINFORCING: (2)-#4 BARS AS DEPICTED CENTERED IN SLAB DEPTH.
- 3.238 CONCRETE REINFORCING: (1)-#5 DOWEL CENTERED IN SLAB DEPTH.
- 3.250 CONCRETE REINFORCING: WWF REFER TO SLAB CALLOUT ON PLAN. PROVIDE WWF-6X6 W2.1 X W2.1 IN FLAT SHEETS U.N.O. PROVIDE PROPER SUPPORT AS REQUIRED TO MAINTAIN PLACEMENT AT NOTED ELEVATION. "PULL UP" METHOD DURING SLAB PLACEMENT NOT ACCEPTABLE. DISCONTINUE AT CONTRACTION AND CONSTRUCTION JOINTS.
- 3.307 CAST-IN-PLACE CONCRETE: SLAB ON METAL DECK. REFER TO PLAN, SCHEDULES AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 3.361 CAST-IN-PLACE CONCRETE JOINT DEVICE/FILLER: SLAB CONSTRUCTION JOINT.
- 3.363 CAST-IN-PLACE CONCRETE JOINT DEVICE/FILLER: SLAB JOINT SEALANT.
- 4.200 UNIT MASONRY: REFER TO PLANS, SCHEDULES, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION INCLUDING BLOCK SIZE, COURSING AND FACE BRICK/STONE.
- 4.201 UNIT MASONRY: CONTINUOUS BOND BEAM WITH REINFORCING AND GROUT. PROVIDE (2)-#4 BARS U.N.O. COORDINATE ELEVATION WITH BEARING CONDITIONS AND ADJACENT WALL CONSTRUCTION. BOND BEAM ELEVATIONS MAY NOT LIKELY TO COINCIDE WITH BEARING PLATE/GRILLAGE BEAM ELEVATIONS. REINFORCING TO RUN CONTINUOUS THROUGH ALL CONTROL/JOINT JOINTS U.N.O.
- 4.270 MASONRY GROUT: CONTINUOUS GROUTED SOLID MASONRY COURSES. REFER TO SPECIFICATIONS. ALL CMU CELLS CONTAINING REBAR/ANCHORS TO BE GROUTED SOLID.
- 4.280 MASONRY ANCHORAGE AND REINFORCEMENT: CONTINUOUS JOINT REINFORCEMENT: 16" O.C. VERTICAL SPACING.
- 4.284 MASONRY ANCHORAGE AND REINFORCEMENT: FULL HEIGHT REINFORCING BARS; SET WITH REBAR POSITIONERS. REFER TO PLANS AND SCHEDULES FOR SIZE, QUANTITY AND SPACING. GROUT SOLID INTO PLACE.
- 5.100 STRUCTURAL STEEL: STEEL BEAM. REFER TO PLAN.
- 5.101 STRUCTURAL STEEL: STEEL COLUMN. REFER TO PLAN AND SCHEDULE.
- 5.120 STRUCTURAL STEEL: 3/8" STIFFENER PLATE NEAR SIDE AND FAR SIDE OF BEAM WEB U.N.O. OR DEPICTED.
- 5.124 STRUCTURAL STEEL: STANDARD DOUBLE CLIP ANGLE CONNECTION WITH 3/4" A325N BOLTS U.N.O.
- 5.200 STEEL JOISTS: STEEL JOIST. REFER TO PLAN.
- 5.311 STEEL FLOOR DECK: COMPOSITE DECK. REFER TO PLAN AND SCHEDULES.
- 5.315 STEEL FLOOR DECK: CONTINUOUS LIGHT GAUGE FOUR STOP AROUND ENTIRE PERIMETER/EDGE. PROVIDE GAUGE BASED ON OVERHANG DIMENSION PER SDI POUR STOP TABLE. MINIMUM GAUGE TO BE 16 U.N.O.
- 5.319 STEEL FLOOR DECK: WELDED HEADED SHEAR STUD. REFER TO PLAN FOR SIZE AND QUANTITY. STAGGER STUDS ON EACH SIDE OF CONSTRUCTION JOINTS WHERE APPLICABLE.
- 5.510 METAL FABRICATION: ANGLE FRAME AS REQUIRED TO ACCOMMODATE ARCHITECTURAL AND M.E.P. OPENINGS. SEE DRAFTING LEGEND ON SHEET S010 FOR FRAME TYPE DEPICTED. FRAMES REQUIRED FOR ALL OPENINGS 1'-0" AND LARGER AND WHEN MULTIPLE PENETRATIONS TO EACH OTHER CAUSE DECK TO BE UNSTABLE. TYPICAL APPLICATIONS INCLUDE, BUT NOT LIMITED TO FLOOR DRAINS, DOWNSPOUTS, PIPING, ROOF DRAINS, SKYLIGHTS, DUCT PENETRATIONS AND CURBS OF MECHANICAL EQUIPMENT. COORDINATE SIZE, LOCATION AND QUANTITY WITH ARCHITECTURAL DRAWINGS, M.E.P. DRAWINGS AND CONTRACTORS. ANGLE SIZES AS NOTED.
- 5.513 METAL FABRICATION: CONTINUOUS STEEL ANGLE. BEAR 4" INTO WALL/PIER AT EACH END OR PERIMETER SUPPORT ELEMENT WHERE APPLICABLE. ANGLE SIZE TO BE L3x3x1/4 U.N.O.
- 5.516 METAL FABRICATION: CONTINUOUS STEEL ANGLE ANCHORED TO WALL USING POST INSTALLED ANCHORS. ANGLE ORIENTATION AS DEPICTED. ANGLE SIZE TO BE L6x4x3/8 U.N.O. ANCHORS TO BE 3/4" EXPANSION ANCHORS PER PROJECT SPECIFICATIONS. SPACING TO BE 2'-0" O.C. U.N.O. EMBEDMENT TO BE 4 3/4" U.N.O. AT BACK TO BACK LOCATIONS, OFFSET ANCHORS 1'-0" TO AVOID CONFLICTING ANCHORS.
- 5.560 METAL FABRICATION: STEEL BEARING PLATE AS NOTED. REFER TO SCHEDULE AND PLANS.
- 5.561 METAL FABRICATION: GRILLAGE BEAM AS NOTED. REFER TO SCHEDULE AND PLANS.
- 5.565 METAL FABRICATION: MISCELLANEOUS STEEL ELEMENTS AS NOTED. CONNECT TO SUPPORTING ELEMENTS AS DEPICTED.
- 5.579 METAL FABRICATION: COMMERCIAL GLASS STAIR AND LANDING (UPPER AND LOWER) CONSTRUCTION BY STAIR CONTRACTOR. CONTRACTOR TO PROVIDE ALL ASSOCIATED DESIGN AND DETAILING AS REQUIRED. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION. NOTE: ALL HEADER ELEMENTS AND STRINGERS SHALL EXTEND INTO WALLS AND BEAR ON BEARING PLATES. POST INSTALLED ANCHORS INTO SEAT ANGLES, ETC. WILL NOT BE PERMITTED. STAIR DETAILER TO BE COGNIZANT OF AESTHETICS ASSOCIATED WITH CONNECTIONS AND FRAMING ELEMENTS AT LOCATIONS THAT WILL BE EXPOSED TO VIEW (I.E. BEHIND GLAZING, NO CEILINGS, ETC.).
- 10.732 METAL CANOPY: PREFINISHED WITH SUPPORT RODS. REFER TO SPECIFICATIONS.
- 23.002 M.E.P. ITEM: HANGER ROD BY TRADE CONTRACTOR.
- 23.003 M.E.P. ITEM: NUTS AND 1/4"x3"x3" WASHER PLATE BY TRADE CONTRACTOR.
- 23.004 M.E.P. ITEM: POST INSTALLED ANCHOR BY TRADE CONTRACTOR. TYPE AND SIZE TO BE AS REQUIRED FOR LOADING MOUNTING AND TYPE.
- 23.076 M.E.P. ITEM: ELECTRICAL CONDUIT: MAXIMUM PERMITTED DIAMETER TO BE 3/4". SECURE TO METAL DECK AS REQUIRED TO PREVENT DISLODGING DURING CONCRETE POUR.



THE COUNTY OF WILL
501 ELLA AVENUE
JOLIET, IL 60433

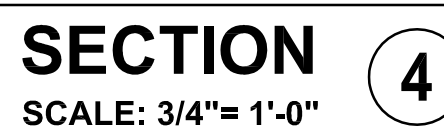
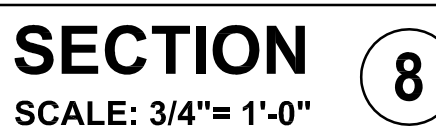
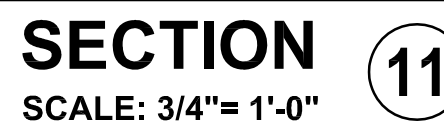
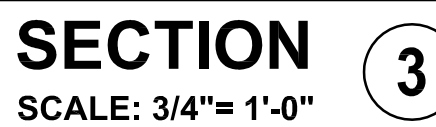
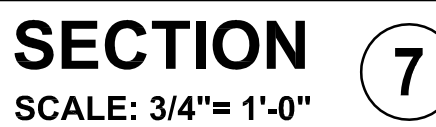
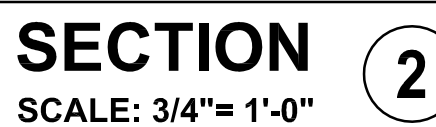
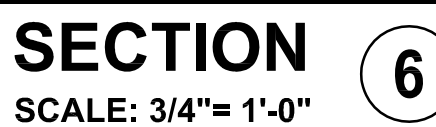
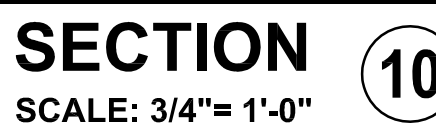
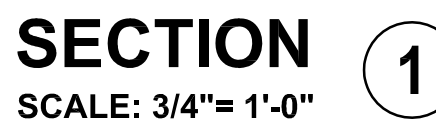
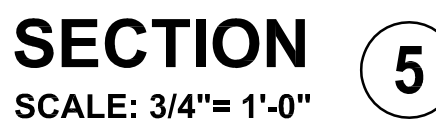
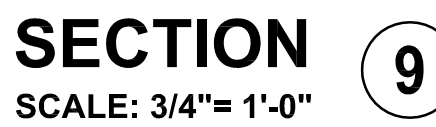
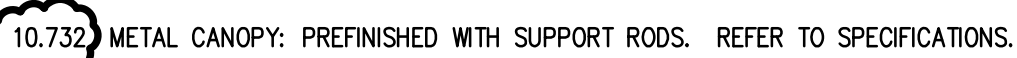
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10/01/18	B.P. #1 - ADDENDUM #3
10/23/18	B.P. #2 - MISC. STL/ STRUC./ ENCL.
11/12/18	B.P. #1 - PLAN REVIEW COMMENTS
10/31/18	B.P. #2 - ADDENDUM #1
11/02/18	B.P. #2 - ADDENDUM #2

FLOOR FRAMING SECTIONS AND DETAILS

S510

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3.307	CAST-IN-PLACE CONCRETE: SLAB ON METAL DECK. REFER TO PLAN, SCHEDULES AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
3.375	CAST-IN-PLACE CONCRETE MISCELLANEOUS: PROVIDE AND INSTALL 1/2" \times 2'-0" LONG FULLY THREADED RODS @ 2'-0" O.C. INTO NUT PROVIDED IN CONTINUOUS STEEL INFILL.
4.200	UNIT MASONRY: REFER TO PLANS, SCHEDULES, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION INCLUDING BLOCK SIZE, COURSEING AND FACE BRICK/STONE.
4.283	MASONRY ANCHORAGE AND REINFORCEMENT: MASONRY VENEER TYPE.
5.100	STRUCTURAL STEEL: STEEL BEAM. REFER TO PLAN.
5.102	STRUCTURAL STEEL: STEEL CHANNEL. REFER TO PLAN/ELEVATION/SECTIONS.
5.124	STRUCTURAL STEEL: STANDARD DOUBLE CLIP ANGLE CONNECTION WITH 3/4" A325N BOLTS U.O.
5.311	STEEL FLOOR DECK: COMPOSITE DECK. REFER TO PLAN AND SCHEDULES.
5.316	STEEL FLOOR DECK: CONTINUOUS LIGHT GAUGE FOUR STOP ANCHored ENR PERMETER/E.D.G. PROVIDE GAUGE BASED ON OVERHANGING DIMENSION PER SJI POUR STOP TABLE. MINIMUM GAUGE TO BE 16 U.O.
5.319	STEEL FLOOR DECK: WELDED HEADED SHEAR STUD. REFER TO PLAN FOR PLAN SIZE AND QUANTITY. STAGGER STUDS ON EACH SIDE OF CONSTRUCTION JOINTS WHEN APPLICABLE.
5.320	STEEL ROOF DECK: REFER TO PLAN AND SCHEDULES.
5.400	COLD FORMED METAL FRAMING: STRUCTURAL STUD/JOIST AS INDICATED. CONNECT TO SUPPORTING ELEMENTS USING INDUSTRY STANDARD LIGHT GAUGE CLIPS AND ANCHORS. SUBMIT PROPOSED CONNECTIONS ELEMENTS TO ENGINEER FOR APPROVAL. SPACING TO MATCH SURROUNDING FRAMING U.O.
5.440	COLD FORMED METAL FRAMING: GRAVITY AND LATERAL CONNECTION AS REQUIRED; INDUSTRY STANDARD LIGHT GAUGE CLIPS AND ANCHORS. SUBMIT PROPOSED CONNECTIONS ELEMENTS TO ENGINEER FOR APPROVAL. CONNECTION TO BE DESIGNED FOR LOADS INDICATED. SPACING TO MATCH SURROUNDING FRAMING U.O.
5.513	METAL FABRICATION: CONTINUOUS STEEL BEAM. BEAR 4" ON WALL/PIER AT EACH END OR PERMITTER SUPPORT ELEMENT WHERE APPLICABLE. ANGLE SIZE TO BE 13x31/4 U.O.
5.524	METAL FABRICATION: CONTINUOUS STEEL ANGLE WITH SHIP WELDED JOINTS @ 2'-0" O.C. TO RECEIVE THREADED RODS. ANGLE SIZE TO BE AS NOTED.
5.565	METAL FABRICATION: MISCELLANEOUS STEEL ELEMENTS AS NOTED. CONNECT TO SUPPORTING ELEMENTS AS DEPICTED.



KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 3.307 CAST-IN-PLACE CONCRETE: SLAB ON METAL DECK. REFER TO PLAN, SCHEDULES AND SPECIFICATIONS FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH.
- 4.200 UNIT MASONRY: REFER TO PLANS, SCHEDULES, ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION INCLUDING BLOCK SIZE, COURSING AND FACE BRICK/STONE.
- 4.201 UNIT MASONRY: CONTINUOUS BOND BEAM WITH REINFORCING AND GROUT. PROVIDE (2)-#4 BARS U.N.O. COORDINATE ELEVATION WITH BEARING CONDITIONS AND ADJACENT WALL CONSTRUCTION. BOND BEAM ELEVATIONS MAY NOT LIKELY TO COINCIDE WITH BEARING PLATE/GRILLAGE BEAM ELEVATIONS. REINFORCING TO RUN CONTINUOUS THROUGH ALL CONTROL/SOFT JOINTS U.N.O.
- 4.270 MASONRY GROUT: CONTINUOUS GROUTED SOLID MASONRY COURSES. REFER TO SPECIFICATIONS. ALL CMU CELLS CONTAINING REBAR/ANCHORS TO BE GROUTED SOLID.
- 4.280 MASONRY ANCHORAGE AND REINFORCEMENT: CONTINUOUS JOINT REINFORCEMENT. 16" O.C. VERTICAL SPACING.
- 4.284 MASONRY ANCHORAGE AND REINFORCEMENT: FULL HEIGHT REINFORCING BARS. SET WITH REBAR POSITIONERS. REFER TO PLANS AND SCHEDULES FOR SIZE, QUANTITY AND SPACING. GROUT SOLID INTO PLACE.
- 5.020 METAL FABRICATION: EXISTING STEEL JOIST.
- 5.030 METAL FABRICATION: EXISTING METAL DECKING.
- 5.100 STRUCTURAL STEEL: STEEL BEAM. REFER TO PLAN.
- 5.101 STRUCTURAL STEEL: STEEL COLUMN. REFER TO PLAN AND SCHEDULE.
- 5.103 STRUCTURAL STEEL: STEEL TUBE. REFER TO PLAN.
- 5.119 STRUCTURAL STEEL: 3/8" EXTENDED SHEAR TAB WITH 3/4" A325 BOLTS.
- 5.120 STRUCTURAL STEEL: 3/8" STIFFENER PLATE NEAR SIDE AND FAR SIDE OF BEAM WEB U.N.O. OR DEPICTED.
- 5.124 STRUCTURAL STEEL: STANDARD DOUBLE CLIP ANGLE CONNECTION WITH 3/4" A325N BOLTS U.N.O.
- 5.125 STRUCTURAL STEEL: 3/8" PLATE M.S. & F.S. WITH 3/4" A325N BOLTS U.N.O.
- 5.200 STEEL JOISTS: STEEL JOIST. REFER TO PLAN.
- 5.205 STEEL JOISTS: HORIZONTAL/DIAGONAL BRIDGING PER SJI AND OSHA STANDARDS. LOCATE BRIDGING AWAY FROM SKYLIGHTS AND WINDOWS WHERE EXPOSED TO VIEW.
- 5.311 STEEL FLOOR DECK: COMPOSITE DECK. REFER TO PLAN AND SCHEDULES.
- 5.315 STEEL FLOOR DECK: CONTINUOUS LIGHT GAUGE FOUR STOP AROUND ENTIRE PERIMETER/EDGE. PROVIDE GAUGE BASED ON OVERHANG DIMENSION PER SDI POUR STOP TABLE. MINIMUM GAUGE TO BE 16 U.N.O.
- 5.319 STEEL FLOOR DECK: WELDED HEADED SHEAR STUD. REFER TO PLAN FOR SIZE AND QUANTITY. STAGGER STUDS ON EACH SIDE OF CONSTRUCTION JOINTS WHERE APPLICABLE.
- 5.320 STEEL ROOF DECK: REFER TO PLAN AND SCHEDULES.
- 5.510 METAL FABRICATION: ANGLE FRAME AS REQUIRED TO ACCOMMODATE ARCHITECTURAL AND M.E.P. OPENINGS. SEE DRAFTING LEGEND ON SHEET 5010 FOR FRAME TYPE DEPICTED. FRAMES REQUIRED FOR ALL OPENINGS 1'-0" AND LARGER AND WHEN MULTIPLE PENETRATIONS IN CLOSE PROXIMITY TO EACH OTHER CAUSE DECK TO BE UNSTABLE. TYPICAL APPLICATIONS INCLUDE, BUT NOT LIMITED TO FLOOR DRAINS, DOWNSPOUTS, PIPING, ROOF DRAINS, SKYLIGHTS, DUCT PENETRATIONS AND CURBS OF MECHANICAL EQUIPMENT. COORDINATE SIZE, LOCATION AND QUANTITY WITH ARCHITECTURAL DRAWINGS, M.E.P. DRAWINGS AND CONTRACTORS. ANGLE SIZES AS NOTED.
- 5.516 METAL FABRICATION: CONTINUOUS STEEL ANGLE ANCHORED TO WALL USING POST INSTALLED ANCHORS. ANGLE ORIENTATION AS DEPICTED. ANGLE SIZE TO BE L6x4x3/8 U.N.O. ANCHORS TO BE 3/4" EXPANSION ANCHORS PER PROJECT SPECIFICATIONS. SPACING TO BE 2'-0" O.C. U.N.O. EMBEDMENT TO BE 4 3/4" U.N.O. AT BACK TO BACK LOCATIONS, OFFSET ANCHORS 1'-0" TO AVOID CONFLICTING ANCHORS.
- 5.531 METAL FABRICATION: STEEL JOIST SUPPLEMENTAL REINFORCING ANGLE TO BE ADDED BY THE RESPECTIVE TRADE CONTRACTOR WHEREVER M.E.P. AND ARCHITECTURAL ITEMS BEAR ON OR HANG FROM JOIST CHORDS WHICH EXCEED 100 POUNDS (OR COMBINED TOTAL OF CONCENTRATED LOADS WITHIN A PANEL EXCEEDS 100 LBS) AND "A">"3". ANGLE SIZE TO BE L1 1/2x1 1/2x3/16 U.N.O.
- 5.532 METAL FABRICATION: STEEL JOIST BRIDGING ANGLE BY STEEL CONTRACTOR. ANCHOR TO WALL USING 3/4" EXPANSION ANCHORS PER PROJECT SPECIFICATIONS. COORDINATE WITH JOIST MANUFACTURER. ANGLE SIZE TO BE L3x3x1/4 U.N.O.
- 5.565 METAL FABRICATION: MISCELLANEOUS STEEL ELEMENTS AS NOTED. CONNECT TO SUPPORTING ELEMENTS AS DEPICTED.
- 9.080 BLOCKING: PROVIDE SOLID NON-COMBUSTIBLE BLOCKING (CONCRETE CEMENT BOARD OR EQ.) AS REQUIRED FOR LOADING.
- 23.015 M.E.P. ITEM: MECHANICAL PIPING. REFER TO MECHANICAL DRAWINGS.

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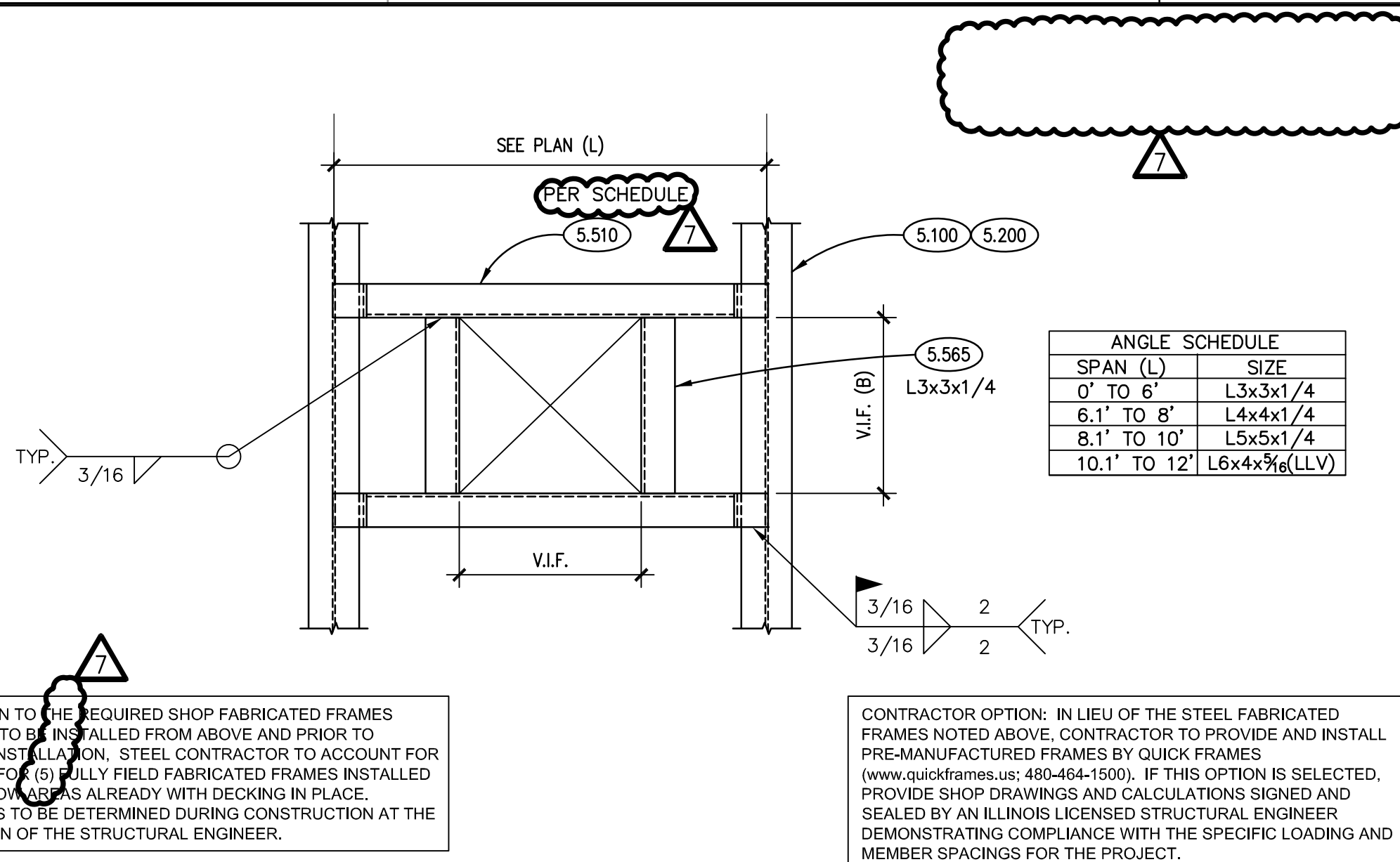
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1	10/01/18	B.P. #1 - MISC. ST. L. STRUCT. ENCL.		
2	10/01/18	B.P. #1 - ADDENDUM #1		
3	10/01/18	B.P. #2 - MISC. ST. L. STRUCT. ENCL.		
4	10/01/18	B.P. #2 - ADDENDUM #2		
5	10/01/18	B.P. #2 - ADDENDUM #2		
6	10/01/18	B.P. #2 - ADDENDUM #2		
7	11/02/18	B.P. #2 - ADDENDUM #2		

JOB NO. 17-401-1124
DRAWN VAD
CHECKED JMB
APPROVED JMB

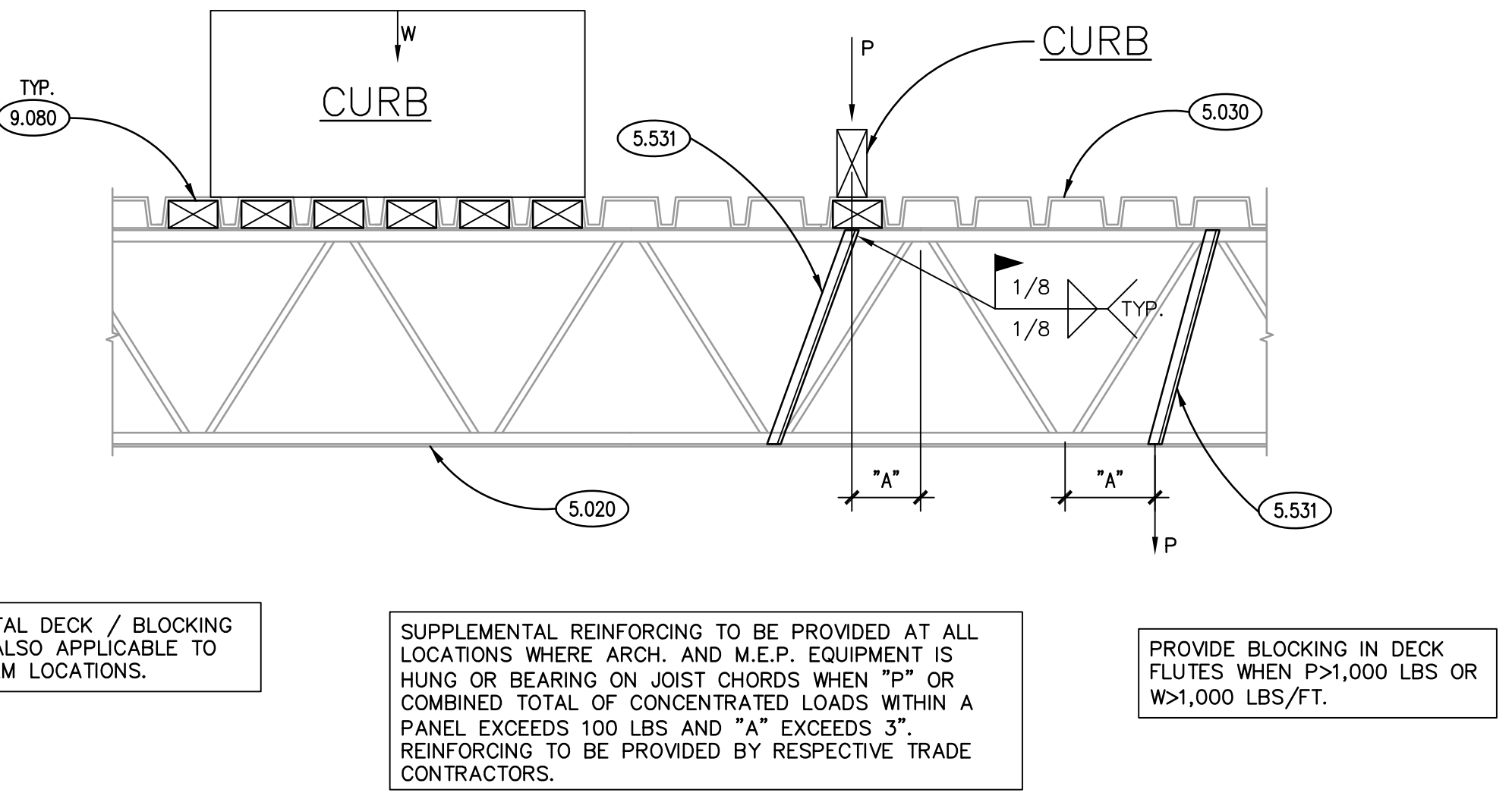
SHEET TITLE
STANDARD
ROOF FRAMING
SECTIONS
AND DETAILS

SHEET NUMBER

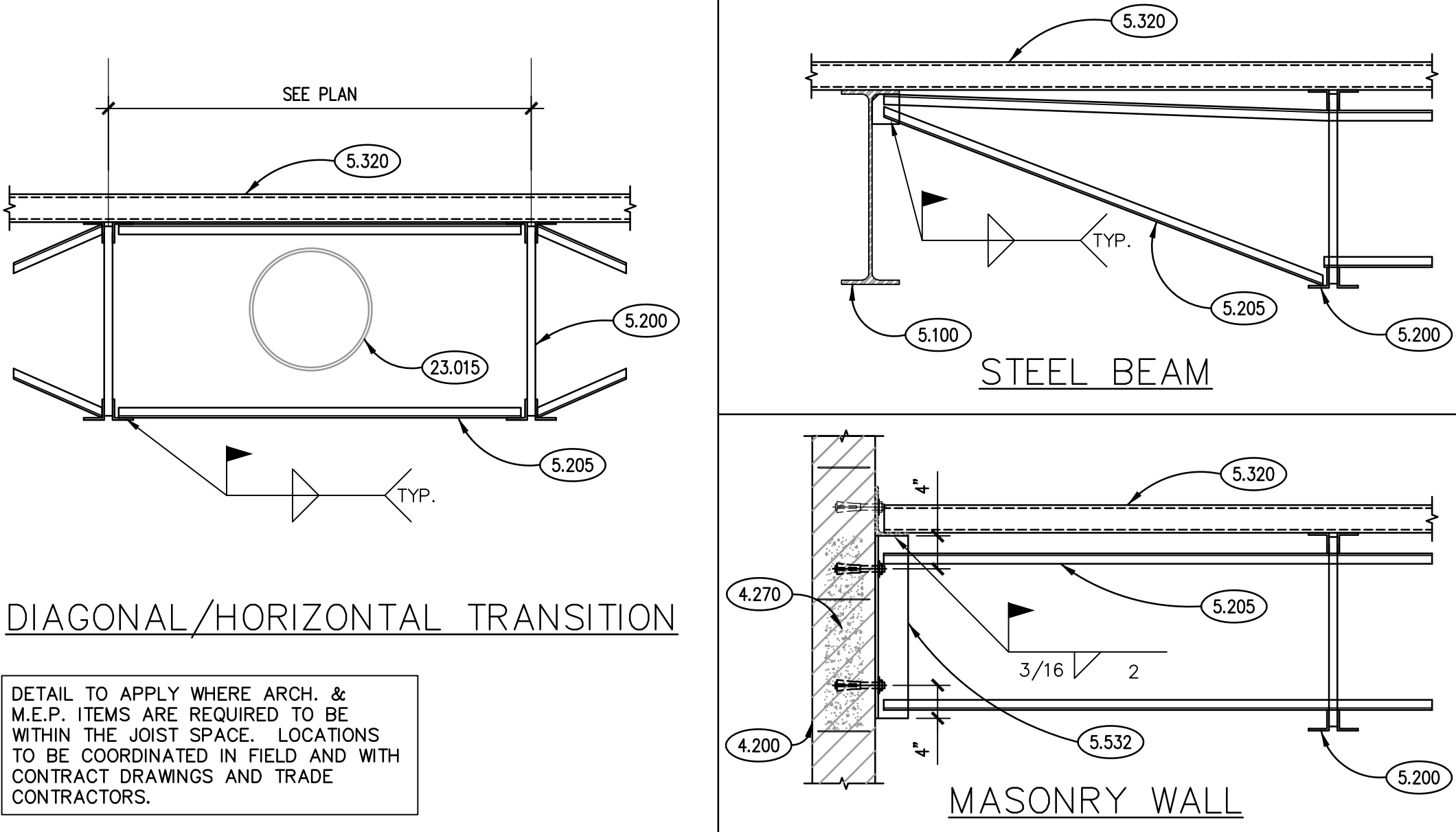
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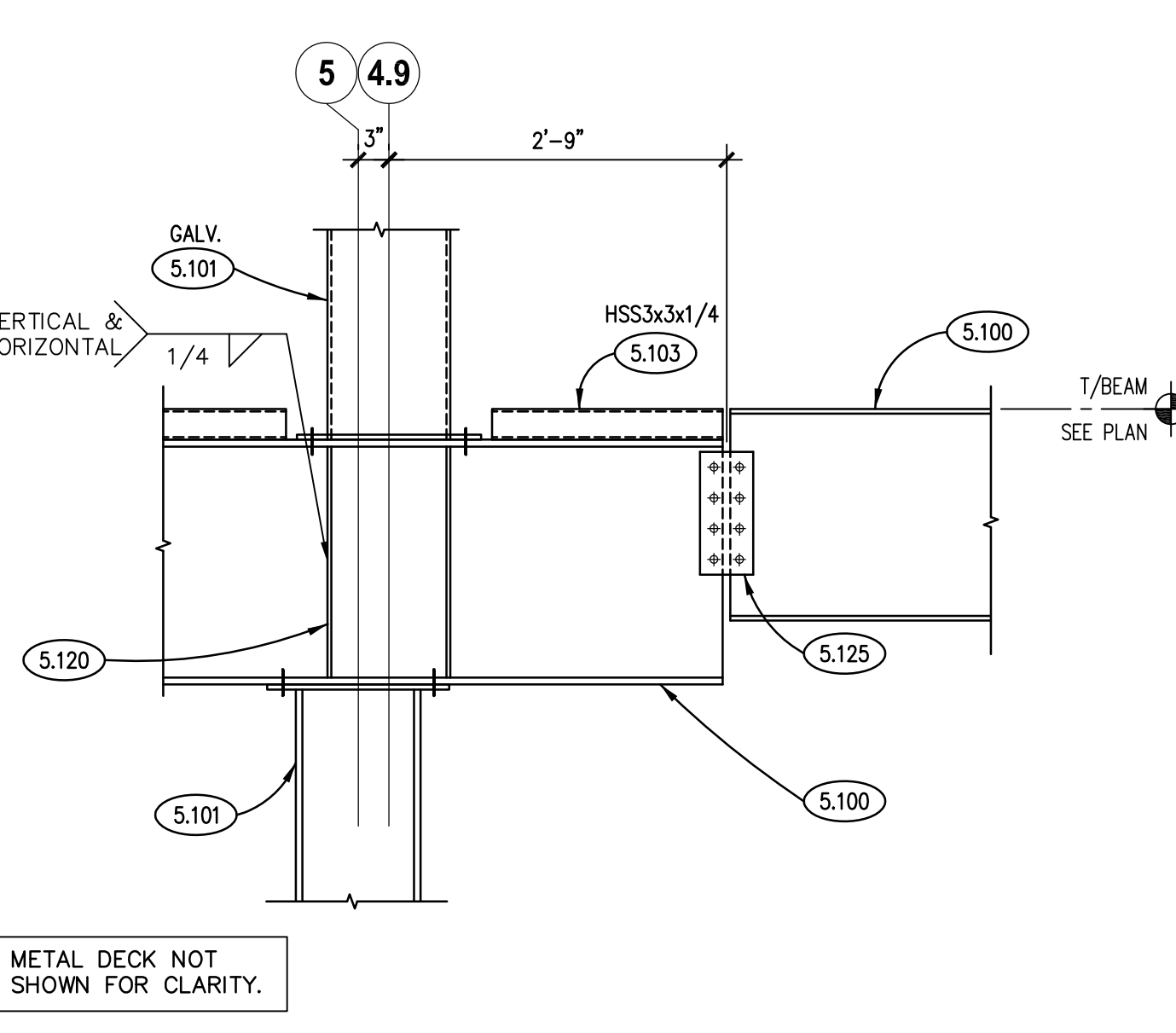
TYPICAL ROOF OPENING FRAMING DETAIL 1
SCALE: N.T.S.



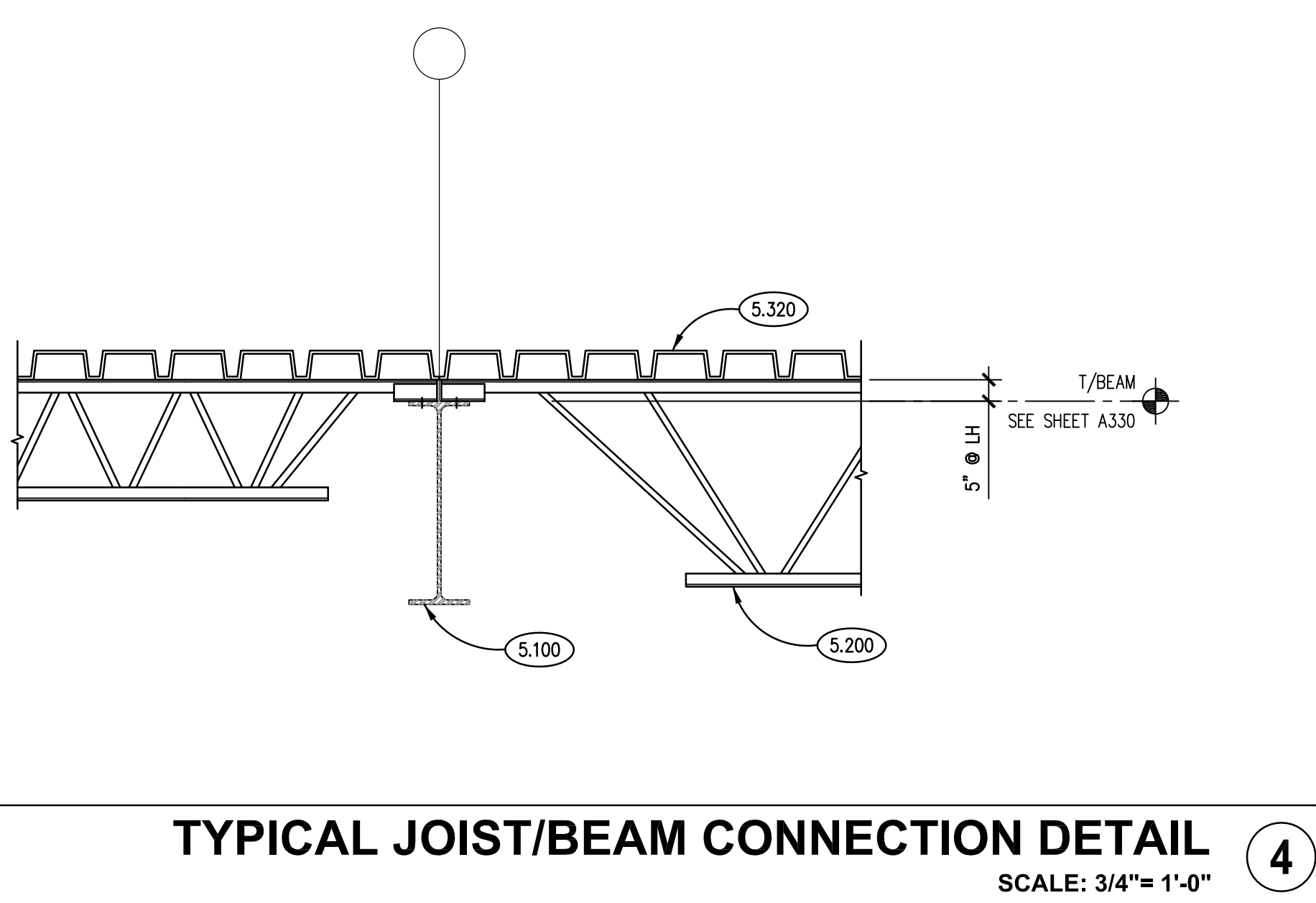
TYPICAL JOIST REINFORCING DETAIL 2
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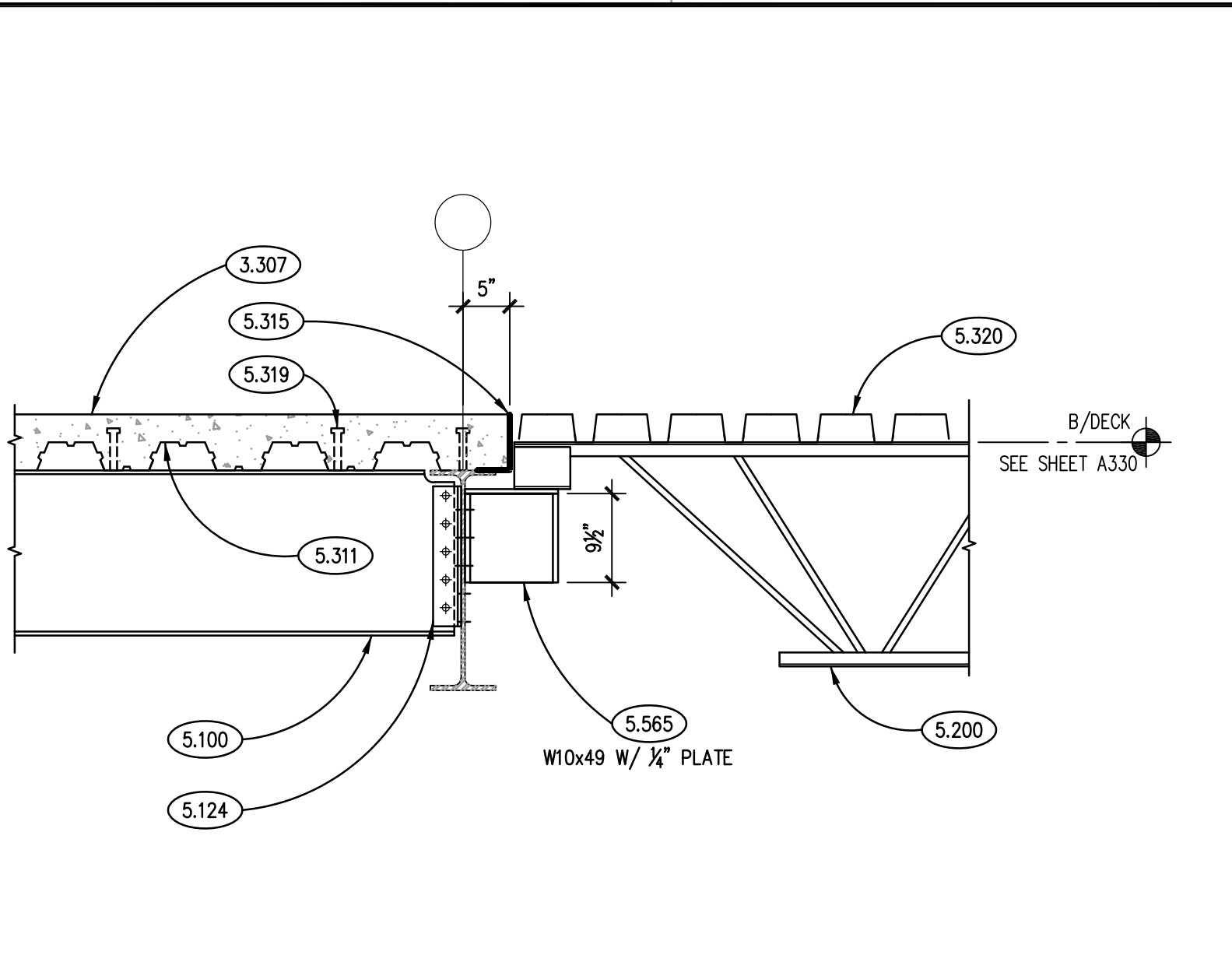
TYPICAL JOIST BRIDGING DETAILS 3
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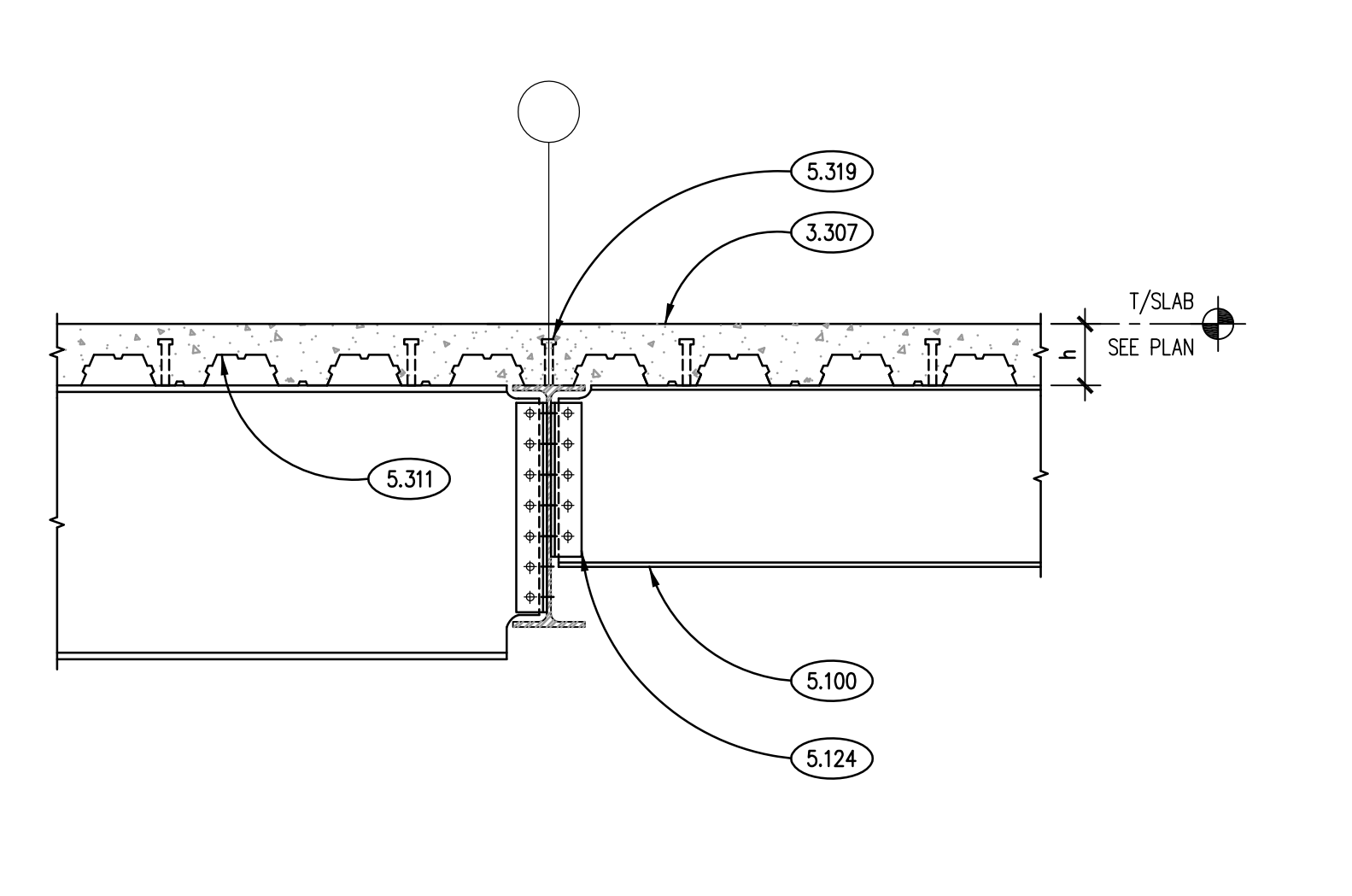
TYP. COLUMN DETAIL 13
SCALE: 3/4"= 1'-0"



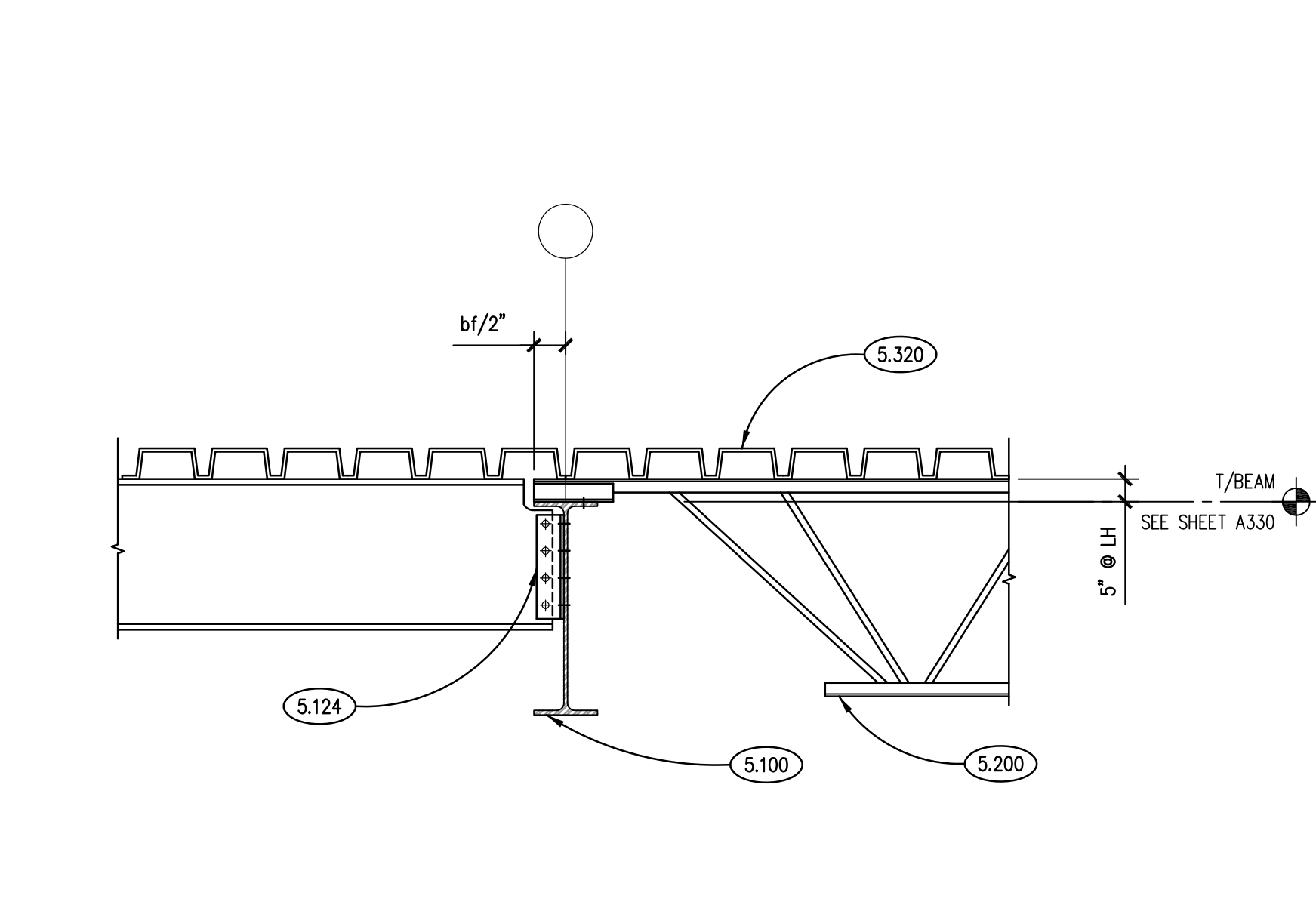
TYPICAL JOIST/BEAM CONNECTION DETAIL 4
SCALE: 3/4"= 1'-0"



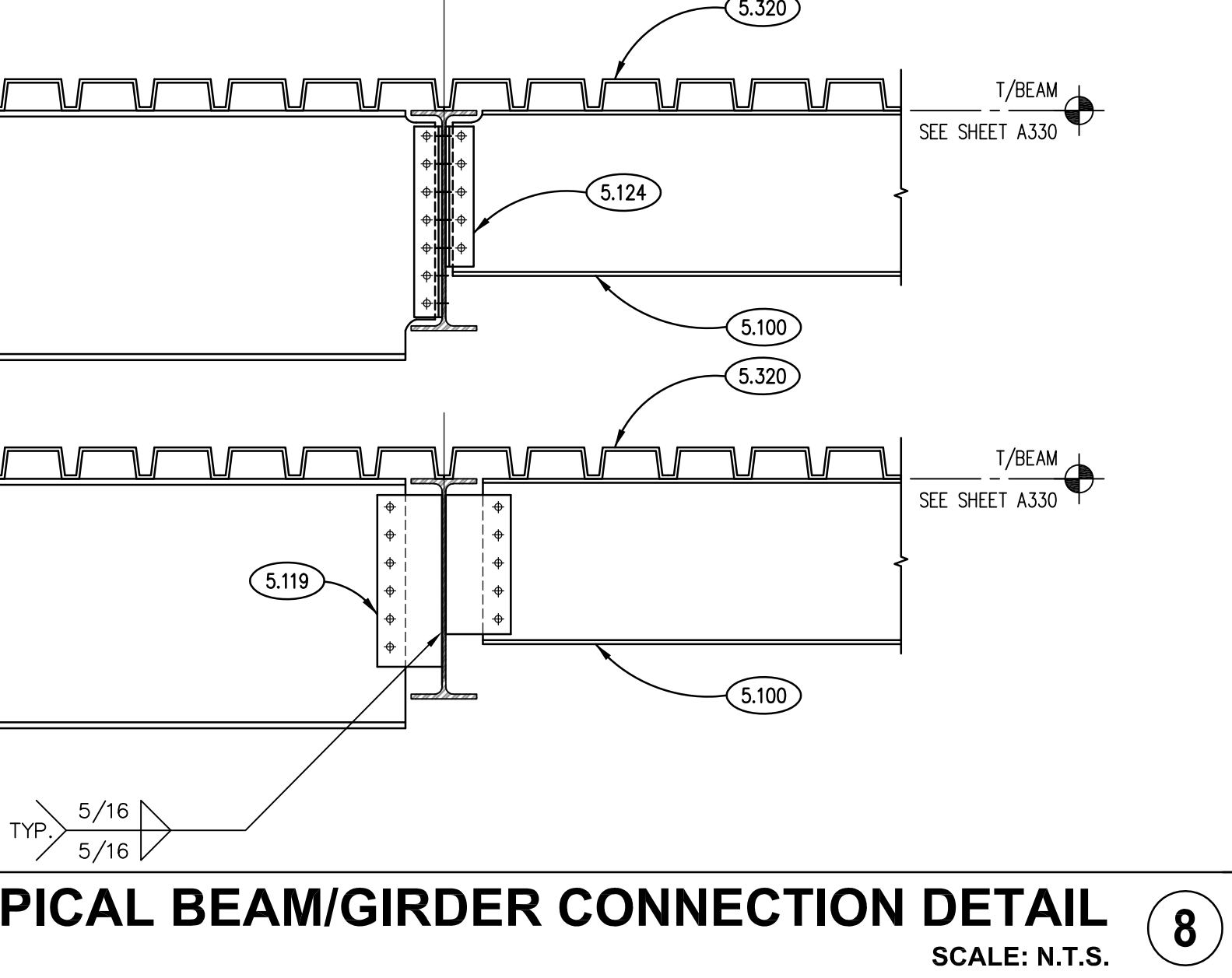
SECTION 5
SCALE: 3/4"= 1'-0"



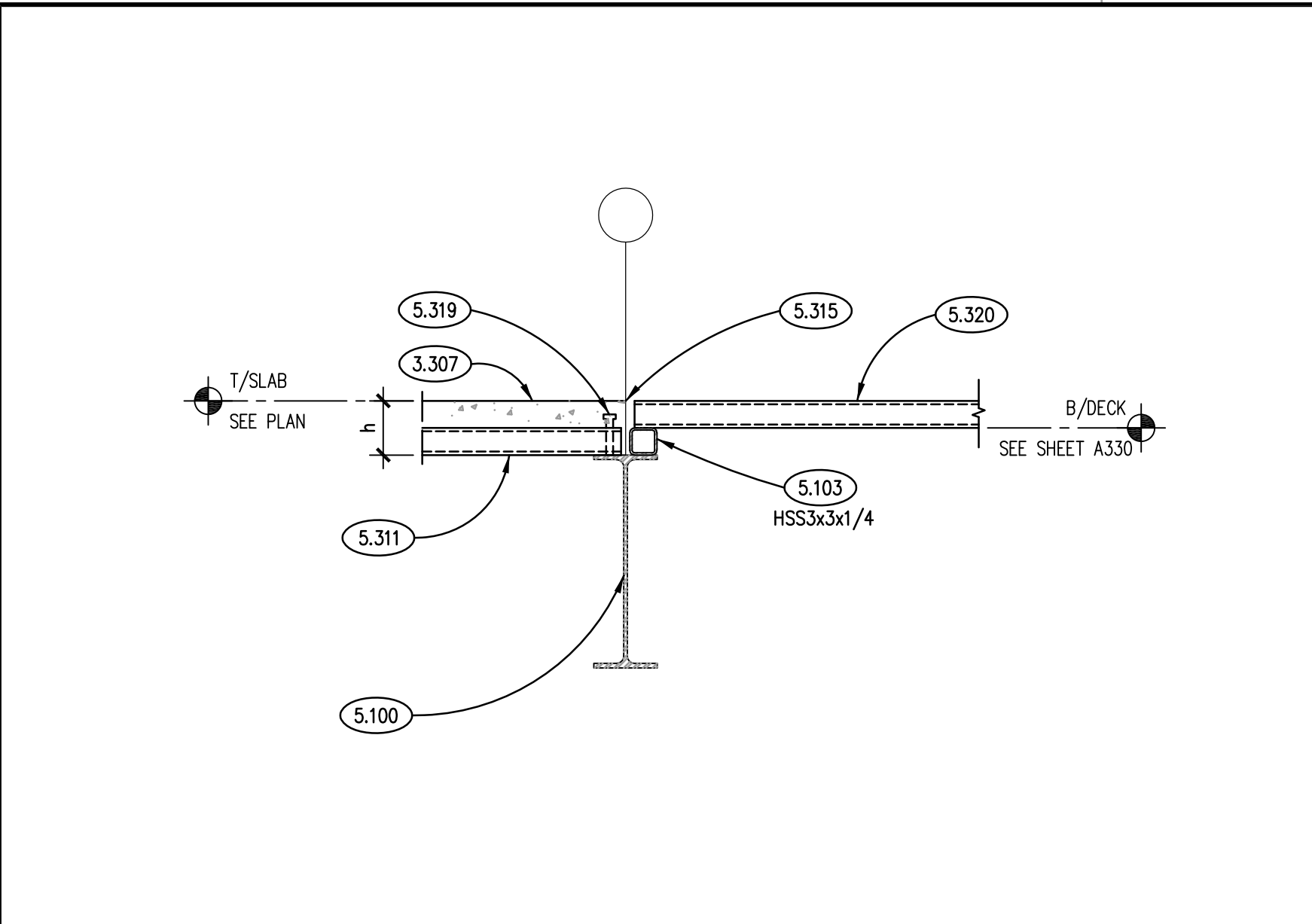
SECTION 6
SCALE: 3/4"= 1'-0"



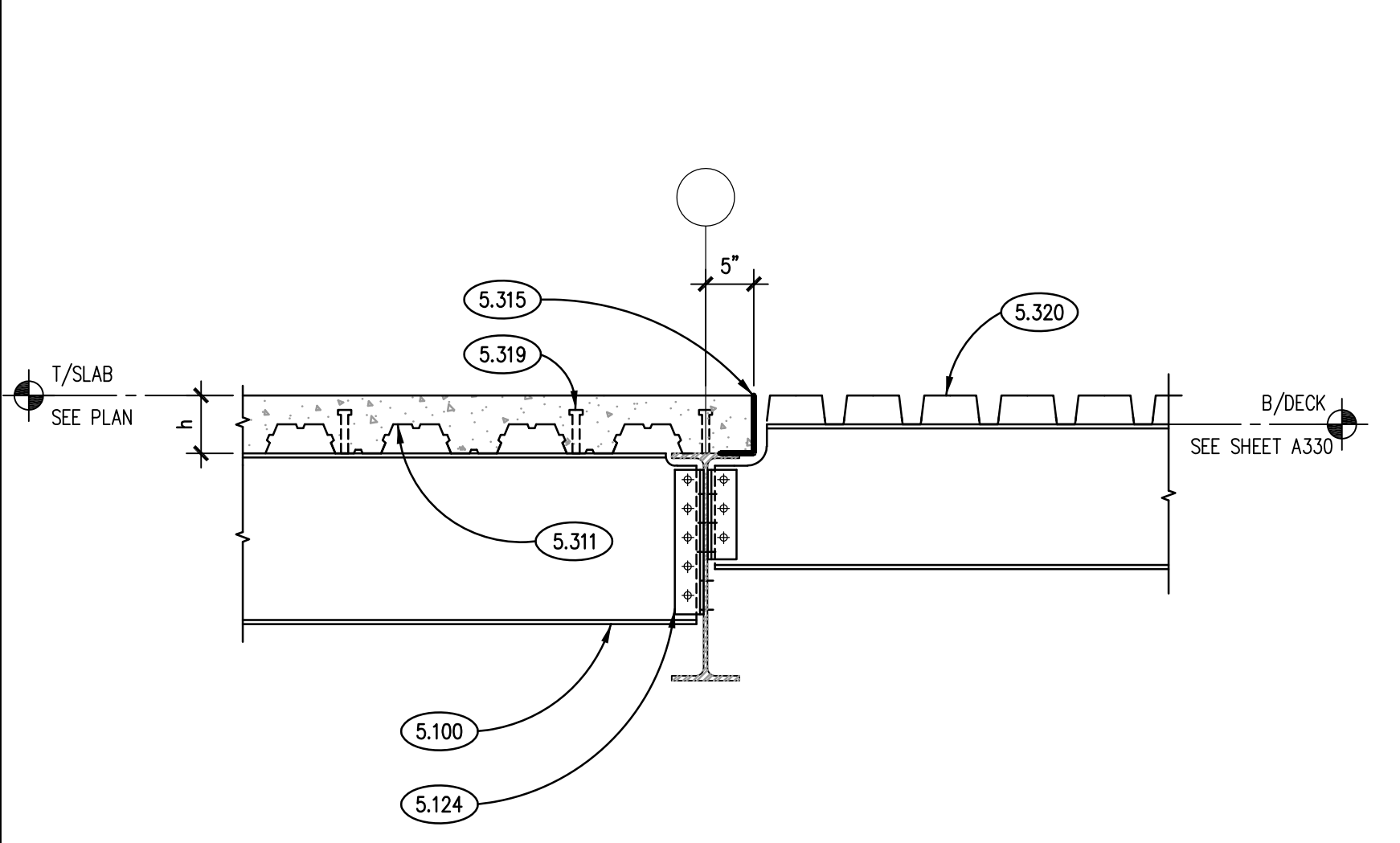
TYP. JOIST/BEAM/GIRDER CONNECTION DETAIL 7
SCALE: 3/4"= 1'-0"



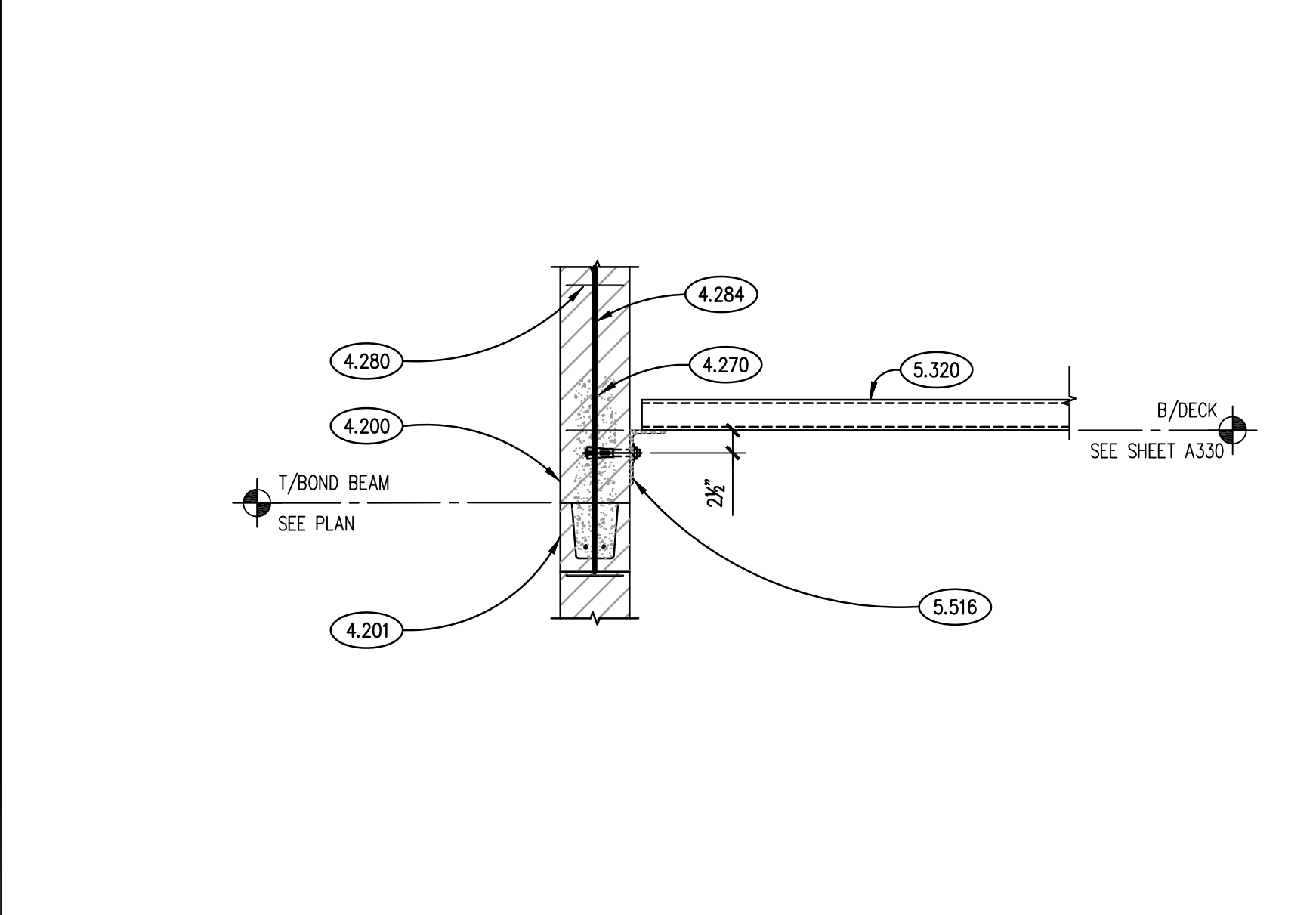
TYPICAL BEAM/GIRDER CONNECTION DETAIL 8
SCALE: N.T.S.



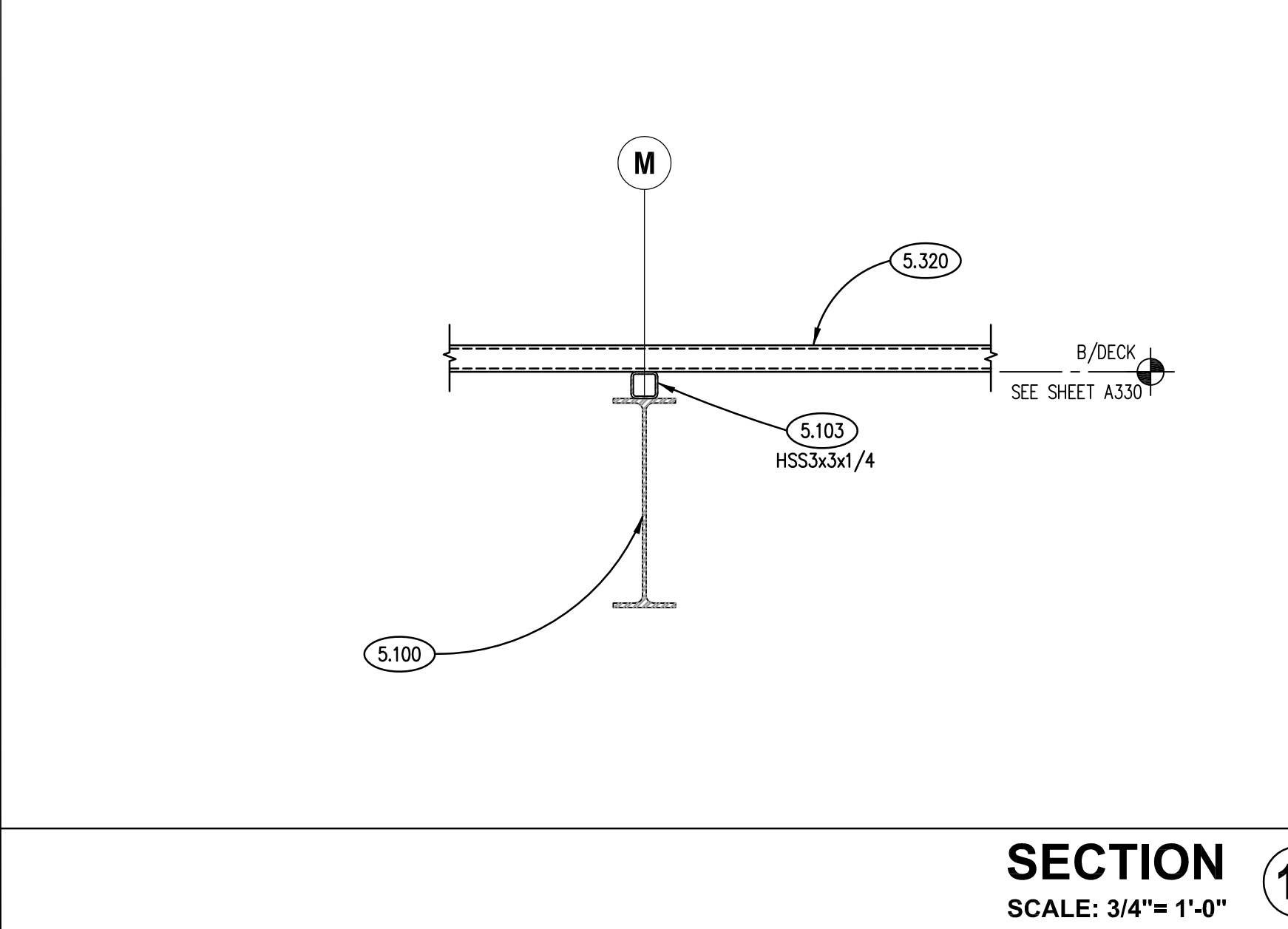
SECTION 9
SCALE: 3/4"= 1'-0"



SECTION 10
SCALE: 3/4"= 1'-0"



SECTION 11
SCALE: 3/4"= 1'-0"



SECTION 12
SCALE: 3/4"= 1'-0"

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

- 5.100 STRUCTURAL STEEL: STEEL BEAM. REFER TO PLAN.
5.101 STRUCTURAL STEEL: STEEL COLUMN. REFER TO PLAN AND SCHEDULE.
5.124 STRUCTURAL STEEL: STANDARD DOUBLE CLIP ANGLE CONNECTION WITH 3/4" A325N BOLTS U.N.O.
5.146 STRUCTURAL STEEL: STEEL ELEMENT AS NOTED IN SCHEDULE BOLTED TO BEAM AND BOLTED TO COLUMN. VERTICAL SHORT SLOTTED HOLES PERMITTED IN VERTICAL LEG OF ELEMENT OR COLUMN FLANGE. BOLTS INTO COLUMN TO BE "TWIST-OFF" TYPE BOLTS. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
5.147 STRUCTURAL STEEL: STEEL ELEMENT AS NOTED IN SCHEDULE BOLTED TO BEAM AND BOLTED/WELDED TO COLUMN. VERTICAL SHORT SLOTTED HOLES PERMITTED IN VERTICAL LEG OF ELEMENT OR COLUMN FLANGE. BOLTS INTO COLUMN TO BE "TWIST-OFF" TYPE BOLTS. SEE SCHEDULE FOR ADDITIONAL INFORMATION.
5.513 METAL FABRICATION: CONTINUOUS STEEL ANGLE. BEAR 4" INTO WALL/PIER AT EACH END OR PERIMETER SUPPORT ELEMENT WHERE APPLICABLE. ANGLE SIZE TO BE L3x3x1/4 U.N.O.
5.565 METAL FABRICATION: MISCELLANEOUS STEEL ELEMENTS AS NOTED. CONNECT TO SUPPORTING ELEMENTS AS DEPICTED.

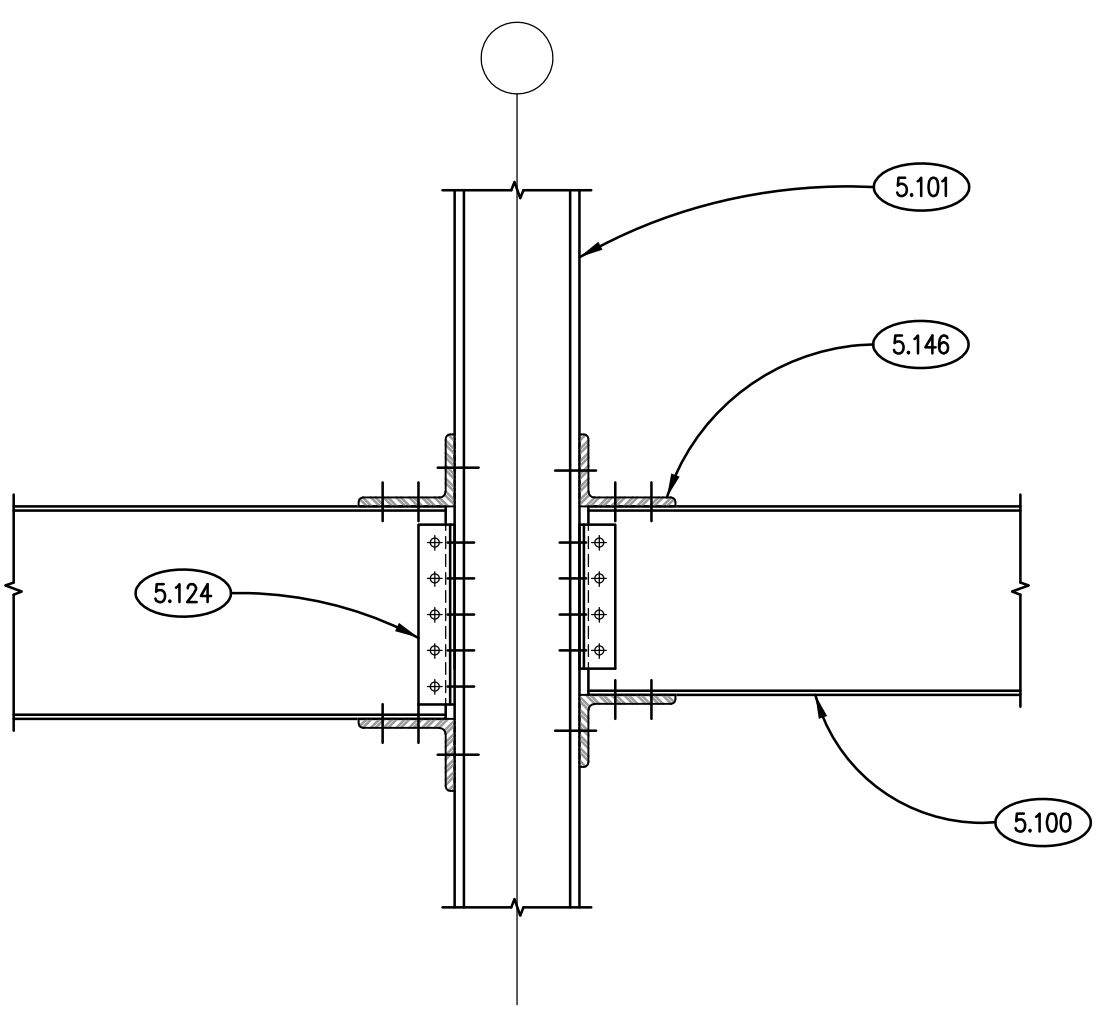
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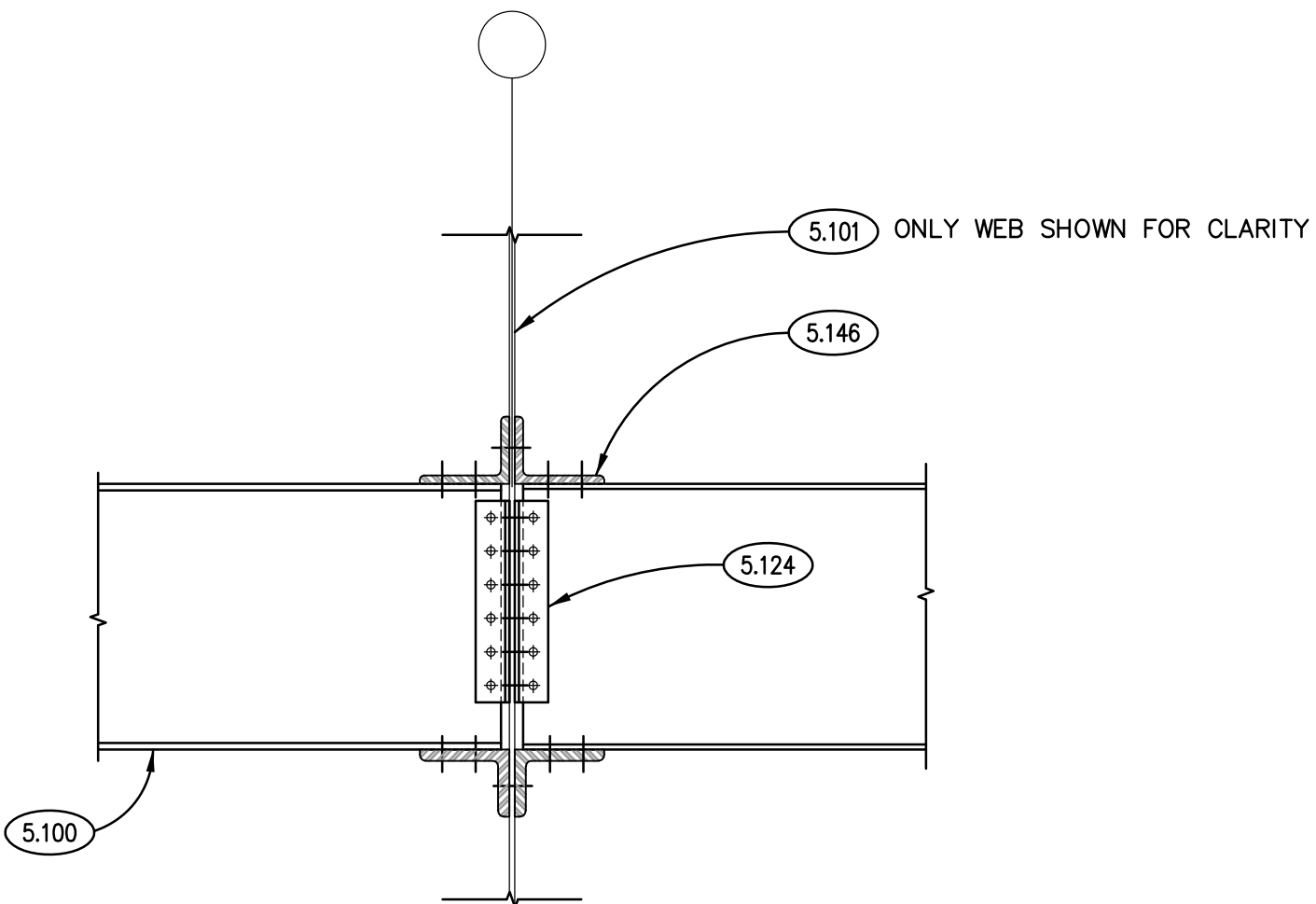
MOMENT CONNECTION DETAILS

SHEET NUMBER

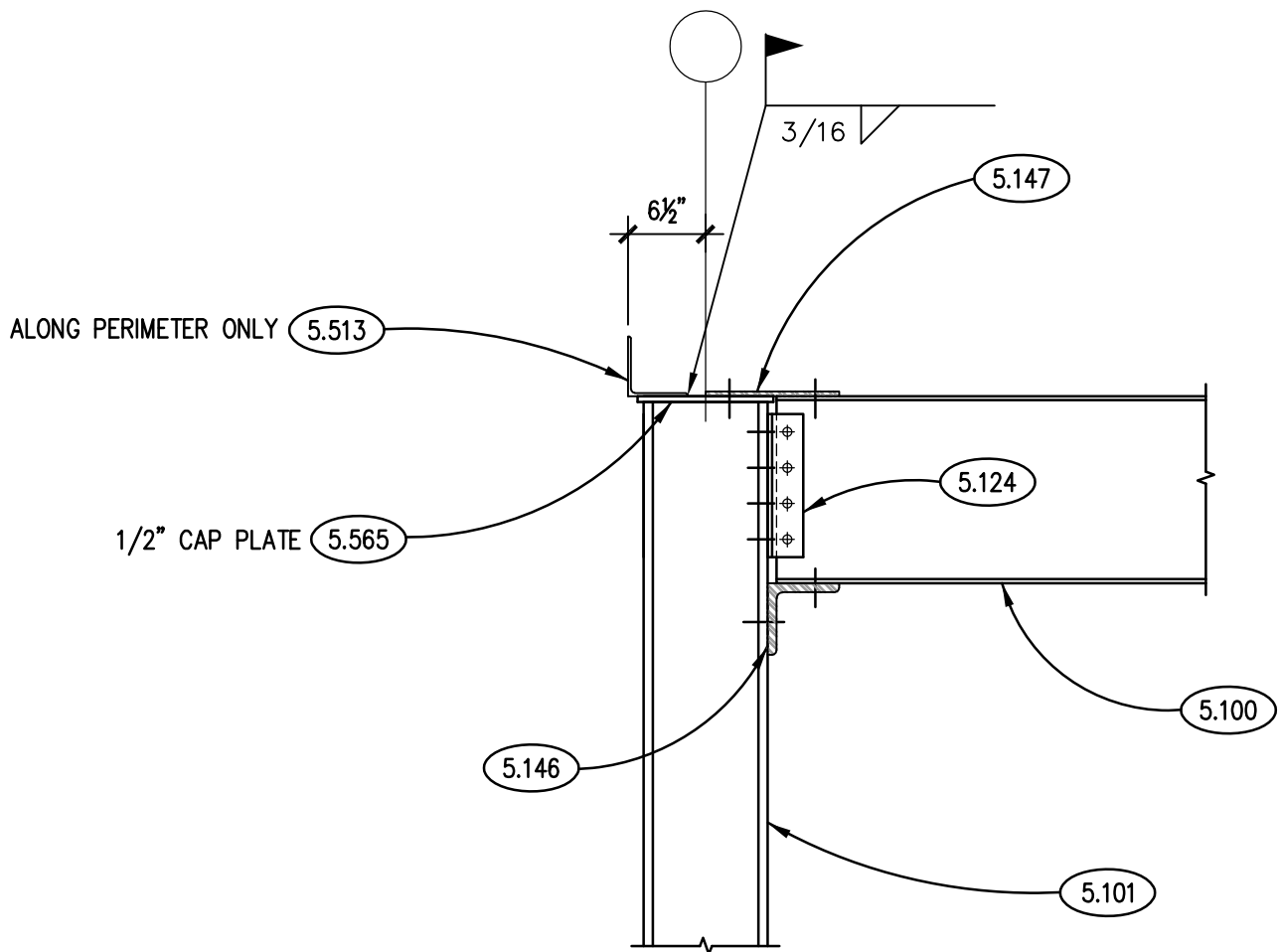
S601



TYPICAL "M1" MOMENT CONN. DETAIL
SCALE: N.T.S.



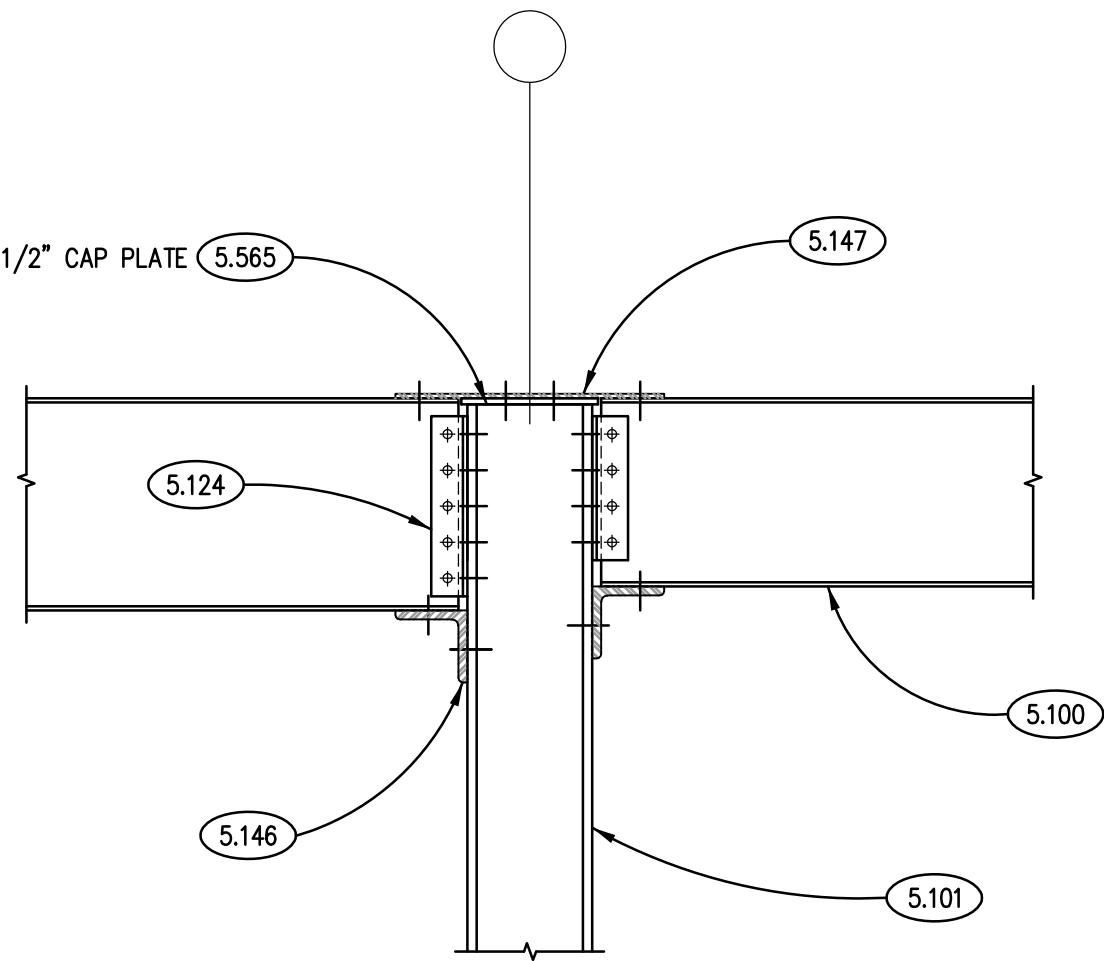
TYPICAL "M2" MOMENT CONNECTION DETAIL
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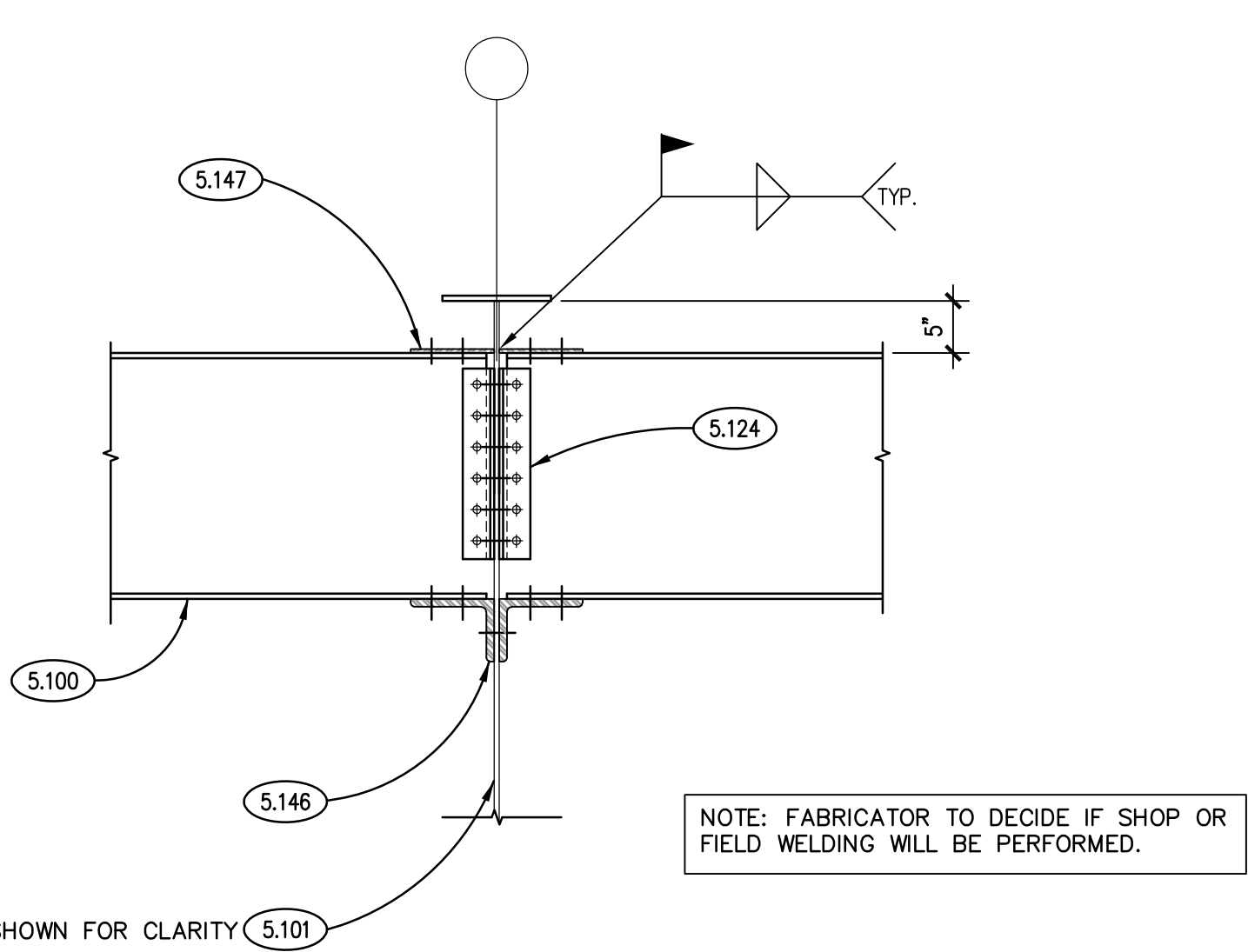
TYPICAL "M3" MOMENT CONN. DETAIL
SCALE: N.T.S.

DETAIL	MARK	ANGLE SIZE			PLATE			BOLTING						WELDING		
		SIZE	LENGTH (INCH)	THICK. (INCH)	LENGTH (INCH)	WIDTH (INCH)	BEAM SIZE (Ø)	TYPE	QTY.	COLUMN SIZE(Ø)	TYPE	QTY.	SIZE	TOP	BOTTOM	
M1	A	L6x6x3/4	9	—	—	—	3/4"	A325	2	3/4"	A325	2	—	—	—	
	B	L8x6x1 (LLH)	12	—	—	—	3/4"	A325	4	1"	A325	2	—	—	—	
	C	L6x6x1	9	—	—	—	3/4"	A325	2	3/4"	A325	2	—	—	—	
M2	A	L6x6x3/4	9	—	—	—	3/4"	A325	2	3/4"	A325	2	—	—	—	
	B	L6x6x1	9	—	—	—	3/4"	A325	2	3/4"	A325	2	—	—	—	
M3	A	L6x6x3/4	9	3/8	10	6	3/4"	A325	2	3/4"	A325	2	—	—	—	
	B	L6x6x1	9	3/8	10	6	3/4"	A325	2	3/4"	A325	2	—	—	—	
M4	A	L6x6x3/4	9	3/8	20	6	3/4"	A325	2	3/4"	A325	2	—	—	—	
	B	L6x6x1	9	3/8	20	6	3/4"	A325	2	3/4"	A325	2	—	—	—	
M5	A	L6x6x3/4	9	3/8	4	6	3/4"	A325	2	3/4"	A325	2	1/4	YES	NO	
M6	A	L6x6x3/4	9	3/8	4	6	3/4"	A325	2	3/4"	A325	2	1/4	YES	NO	
	B	L8x6x1 (LLH)	12	3/8	6	6	3/4"	A325	4	1"	A325	2	5/16	YES	YES	
M7	A	L6x6x3/4	9	3/8	4/10	6	3/4"	A325	2	3/4"	A325	2	1/4	YES	NO	
	B	L6x6x1	9	3/8	4/10	6	3/4"	A325	2	3/4"	A325	2	1/4	YES	NO	
M8	A	L6x6x3/4	9	3/8	20	6	3/4"	A325	2	3/4"	A325	2	—	—	—	
M9	A	L6x6x3/4	9	3/8	10	6	3/4"	A325	2	3/4"	A325	2	1/4	YES	NO	
	B	L6x6x1	9	3/8	10	6	3/4"	A325	2	3/4"	A325	2	5/16	YES	NO	
M10	A	L6x6x1	9	3/8	4/10	6	3/4"	A325	2	3/4"	A325	2	5/16	YES	NO	

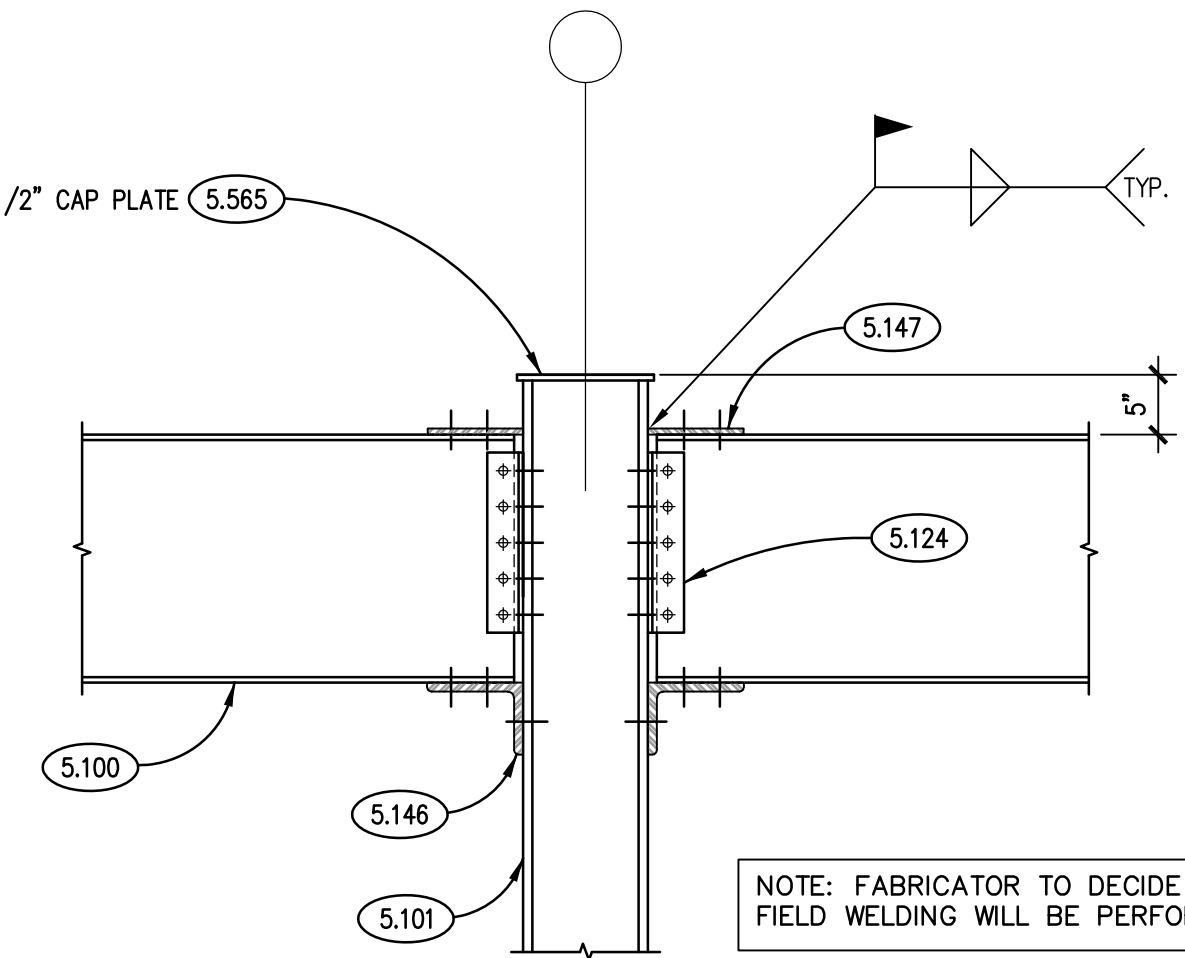
MOMENT CONNECTION SCHEDULE
SCALE: N.T.S.



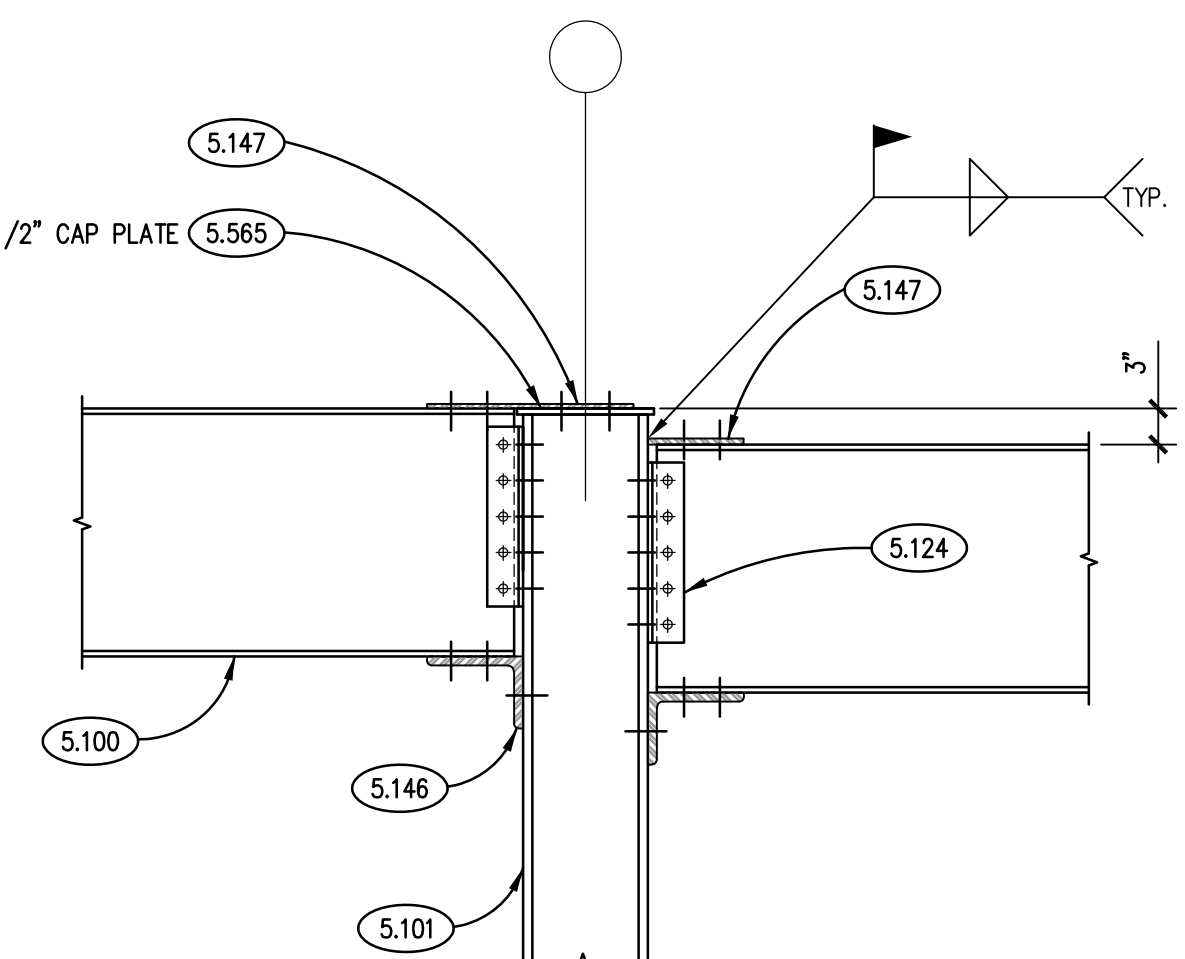
TYPICAL "M4" MOMENT CONNECTION DETAIL
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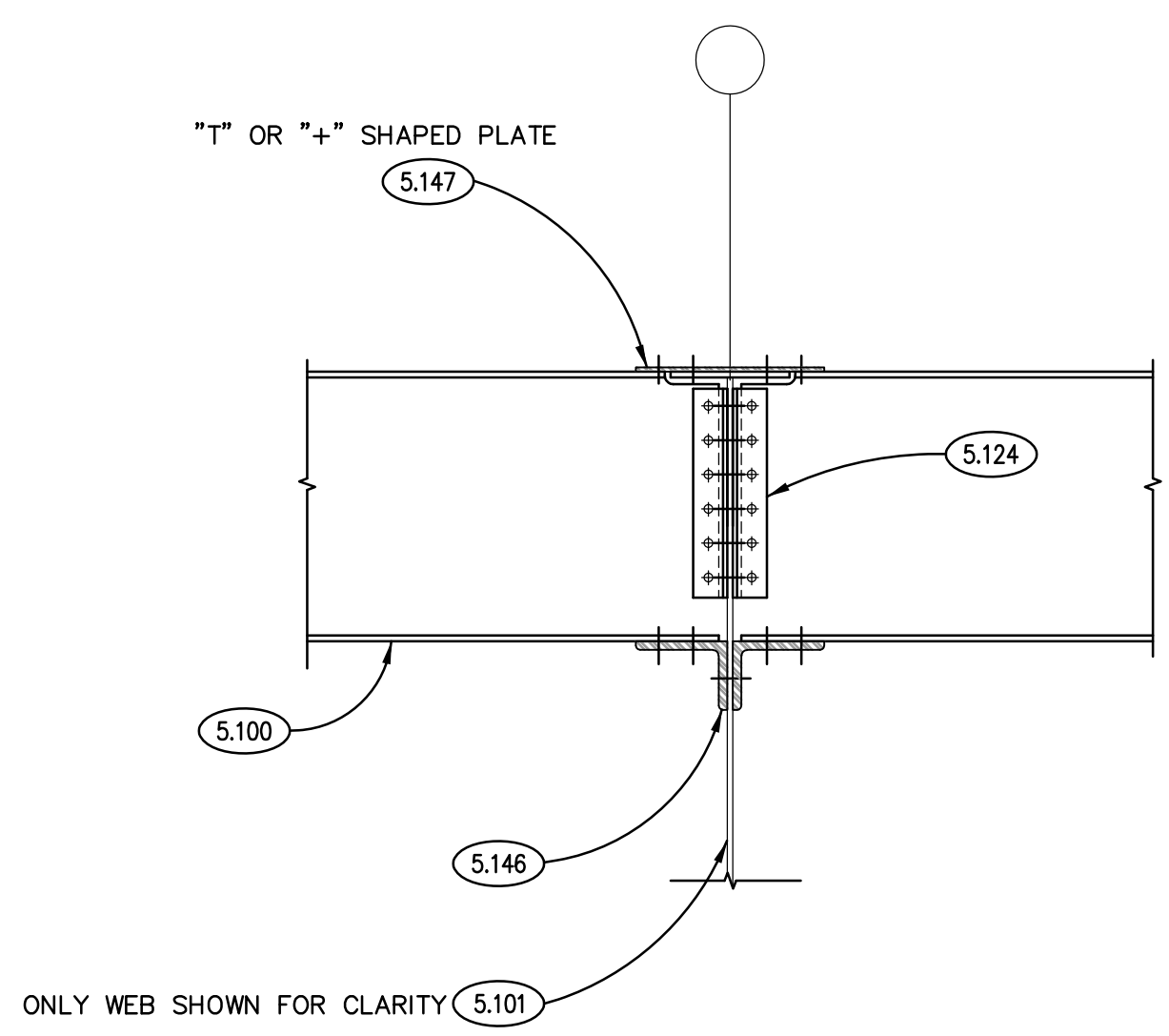
TYP. "M5" MOMENT CONNECTION DETAIL
SCALE: N.T.S.



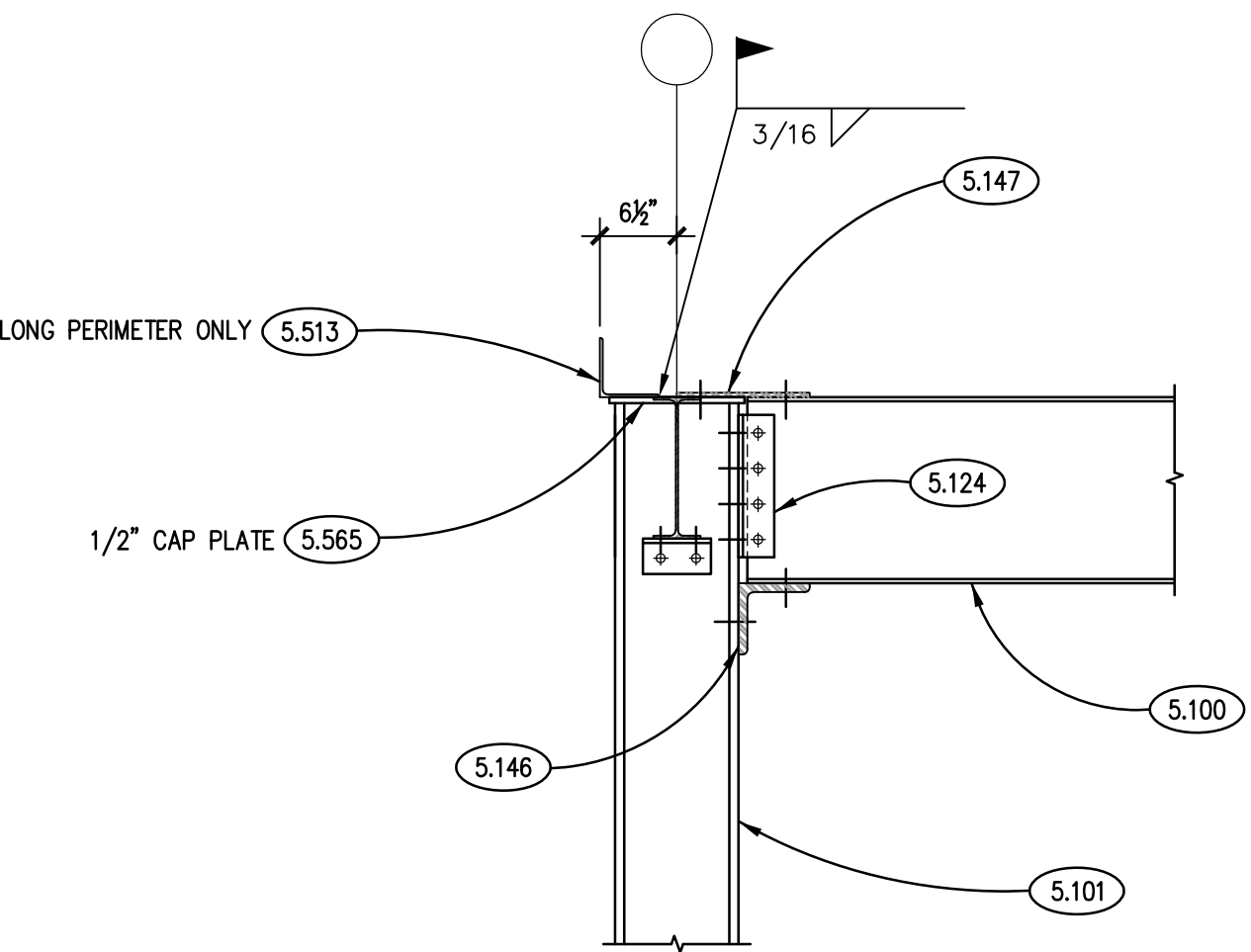
TYPICAL "M6" MOMENT CONNECTION DETAIL
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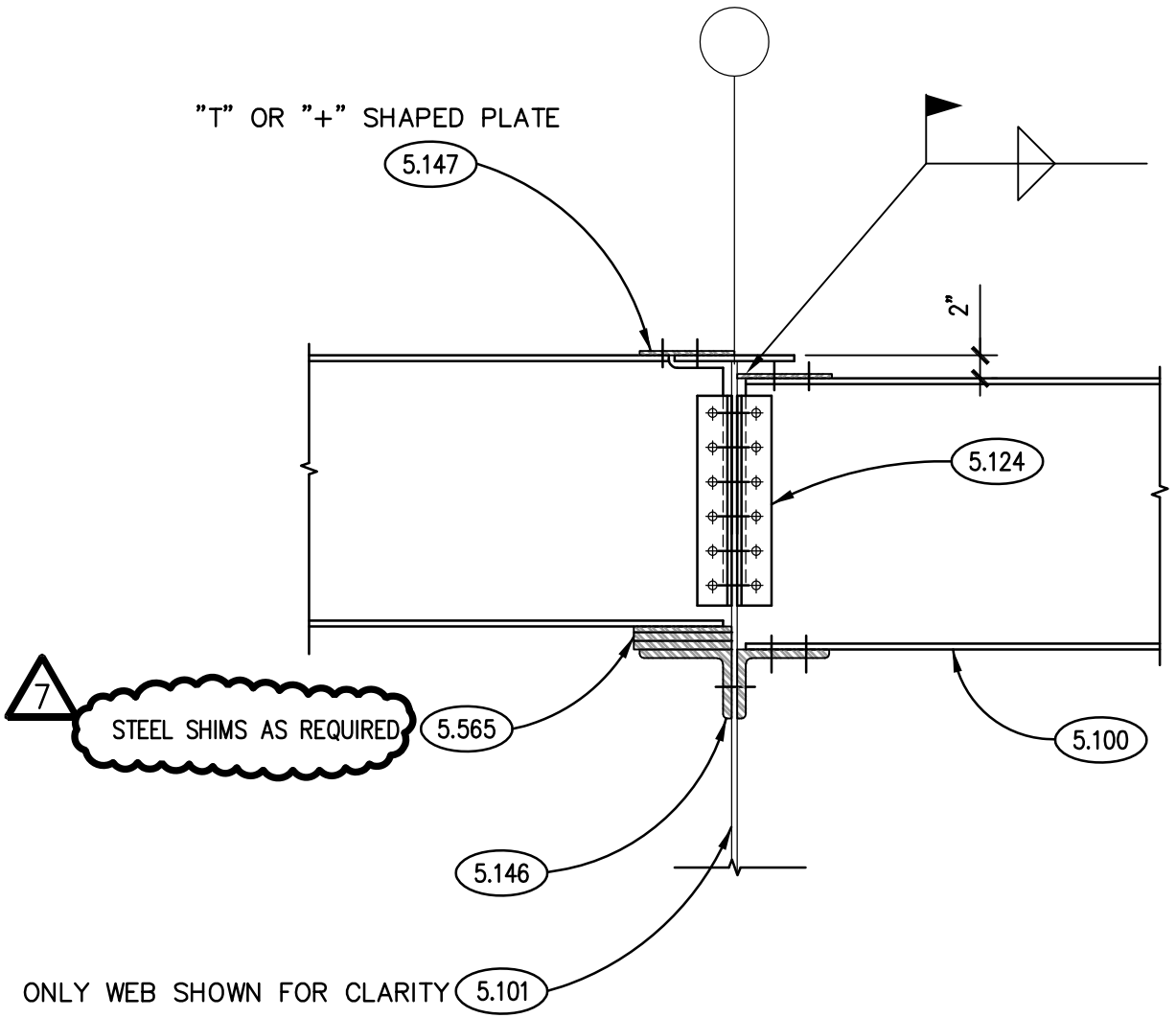
TYPICAL "M7" MOMENT CONNECTION DETAIL
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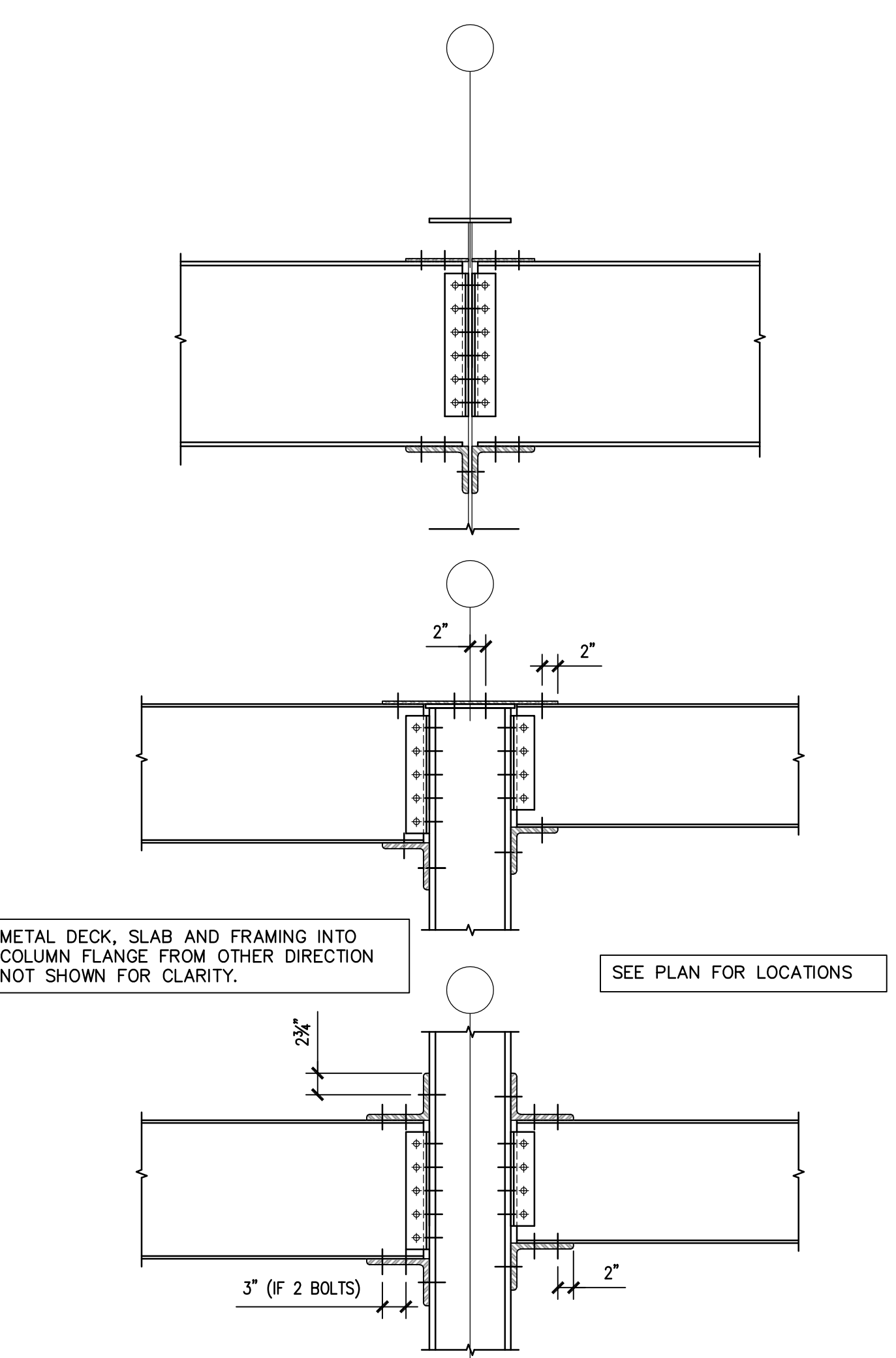
TYPICAL "M8" MOMENT CONNECTION DETAIL
SCALE: N.T.S.



TYPICAL "M9" MOMENT CONNECTION DETAIL
SCALE: N.T.S.



TYPICAL "M10" MOMENT CONNECTION DETAIL
SCALE: N.T.S.



TYP. MOMENT CONNECTION DIMENSIONS
SCALE: N.T.S.