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# TRI-CITY MEDICAL CENTER PARKING STRUCTURE

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Project Title

**TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY**

Sheet Title

**COVER SHEET**

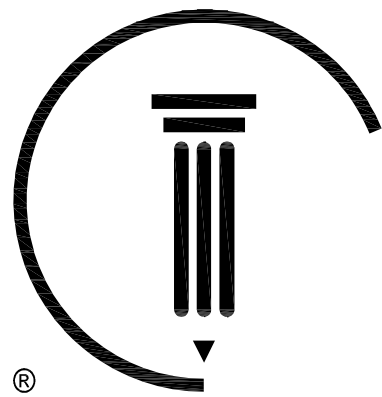
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SCOPE OF WORK	ABBREVIATIONS	MATERIALS	SHEET INDEX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
<p>THE PROJECT CONSISTS OF A NEW THREE-LEVEL OPEN PARKING STRUCTURE AND SITE IMPROVEMENTS WITH A LIMITED EXTENSION FROM THE EXTERIOR PERIMETER OF THE PARKING STRUCTURE.</p> <p>THE PARKING FACILITY IS DESIGNED WITH CAST-IN-PLACE CONCRETE COLUMNS AND CAST-IN-PLACE POST-TENSIONED CONCRETE SLABS AND BEAMS OF TYPE IB CONSTRUCTION.</p> <p>SERVING ALL THREE LEVELS ARE TWO ELEVATORS AT THE SOUTHEAST CORNER; TWO OPEN STAIRS AT THE NORTHEAST AND NORTHWEST CORNERS; AND ONE OPEN STAIRS AT THE SOUTHWEST CORNER.</p> <p>VEHICULAR ACCESS IS PROVIDED AT GROUND AND SECOND LEVELS. ACCESSIBLE PARKING IS PROVIDED AT ALL LEVELS.</p> <p>SOLAR PANELS WILL NOT BE PROVIDED AS PART OF THIS PROJECT. PROVISIONS FOR FUTURE INSTALLATION ARE BEING FURNISHED AS REQUIRED BY CBC.</p>	<table><tr><td>Ⓐ</td><td>AT</td><td>INT.</td><td>INTERIOR</td></tr><tr><td>A.D.</td><td>AREA DRAIN</td><td>LAV.</td><td>LAVATORY</td></tr><tr><td>A.F.F.</td><td>ABOVE FINISHED FLOOR</td><td>LLH.</td><td>LONG LEG HORIZONTAL</td></tr><tr><td>ALUM.</td><td>ALUMINUM</td><td>LLV.</td><td>LONG LEG VERTICAL</td></tr><tr><td>ANOD.</td><td>ANODIZED</td><td>MANUF.</td><td>MANUFACTURER</td></tr><tr><td>AP</td><td>ACCESSIBLE PARKING</td><td>MAS.</td><td>MASONRY</td></tr><tr><td>APPROX.</td><td>APPROXIMATELY</td><td>MAX.</td><td>MAXIMUM</td></tr><tr><td>BD.</td><td>BOARD</td><td>MECH.</td><td>MECHANICAL</td></tr><tr><td>BLDG.</td><td>BUILDING</td><td>M.H.</td><td>MANHOLE</td></tr><tr><td>BLK.</td><td>BLOCK</td><td>MIN.</td><td>MINIMUM</td></tr><tr><td>BM.</td><td>BEAM</td><td>MISC.</td><td>MISCELLANEOUS</td></tr><tr><td>B.W.</td><td>BACK OF WALK</td><td>M.O.</td><td>MASONRY OPENING</td></tr><tr><td>CAVPEV</td><td>CLEAN AIR/VANPOOL/ELECTRIC VEHICLE</td><td>MTL.</td><td>METAL</td></tr><tr><td>C.B.</td><td>CATCH BASIN</td><td>N.I.C.</td><td>NOT IN CONTRACT</td></tr><tr><td>C.G.</td><td>CENTER OF GRAVITY</td><td>O.C.</td><td>ON CENTER</td></tr><tr><td>C.I.P.</td><td>CAST IN PLACE</td><td>O.D.</td><td>OUTSIDE DIAMETER or OVERFLOW DRAIN</td></tr><tr><td>C.J.</td><td>CONTROL JOINT</td><td>ODR</td><td>OVERFLOW DRAIN RISER</td></tr><tr><td>C.L.</td><td>CENTER LINE</td><td>OPG.</td><td>OPENING</td></tr><tr><td>CLR.</td><td>CLEAR</td><td>OPP.</td><td>OPPOSITE</td></tr><tr><td>CMU</td><td>CONCRETE MODULAR UNIT</td><td>P.A.</td><td>PLANTING AREA</td></tr><tr><td>COL.</td><td>COLUMN</td><td>P.L.</td><td>PROPERTY LINE</td></tr><tr><td>CONC.</td><td>CONCRETE</td><td>P.P.</td><td>POWER POLE</td></tr><tr><td>CSP</td><td>COMBINATION STANDPIPE</td><td>PR.</td><td>PAIR</td></tr><tr><td>DBL.</td><td>DOUBLE</td><td>R.D.</td><td>ROOF DRAIN</td></tr><tr><td>DET.</td><td>DETAIL</td><td>REINF.</td><td>REINFORCED (ING)</td></tr><tr><td>DIA.</td><td>DIAMETER</td><td>REQ'D</td><td>REQUIRED</td></tr><tr><td>DIM.</td><td>DIMENSION</td><td>R.O.</td><td>ROUGH OPENING</td></tr><tr><td>DN.</td><td>DOWN</td><td>SCD</td><td>SEE CIVIL DRAWINGS</td></tr><tr><td>DSA</td><td>DIVISION OF STATE ARCHITECT</td><td>SCHED.</td><td>SCHEDULE</td></tr><tr><td>D.S.P.</td><td>DRY STANDPIPE</td><td>S.D.</td><td>STORM DRAIN</td></tr><tr><td>DWG's</td><td>DRAWINGS</td><td>SDR</td><td>STORM DRAIN RISER</td></tr><tr><td>E.A.</td><td>EACH</td><td>SECT.</td><td>SECTION</td></tr><tr><td>E.F.D.</td><td>EMERGENCY FLOOR DRAIN</td><td>SHT.</td><td>SHEET</td></tr><tr><td>EFDR</td><td>EMERGENCY FLOOR DRAIN RISER</td><td>SIM.</td><td>SIMILAR</td></tr><tr><td>EIFS</td><td>EXTERIOR INSULATION FINISH SYSTEM</td><td>SLD</td><td>SEE LANDSCAPE DRAWINGS</td></tr><tr><td>ELEC.</td><td>ELECTRICAL</td><td>SP</td><td>SPRINKLER RISER</td></tr><tr><td>EQ.</td><td>EQUAL</td><td>SPECS.</td><td>SPECIFICATIONS</td></tr><tr><td>EXIST.</td><td>EXISTING</td><td>S/S</td><td>SERVICE SINK</td></tr><tr><td>EXT.</td><td>EXTERIOR</td><td>S.S.</td><td>TOP OF STRUCTURAL SLAB</td></tr><tr><td>F.D.C.</td><td>FIRE DEPT. CONNECTION (INLET)</td><td>SED</td><td>SEE ELECTRICAL DRAWING</td></tr><tr><td>F.D.O.</td><td>FIRE DEPT. OUTLET</td><td>SPD</td><td>SEE PLUMBING DRAWING</td></tr><tr><td></td><td>(2 1/2" VALVE SEE MECHANICAL DWG.)</td><td>SMD</td><td>SEE MECHANICAL DRAWING</td></tr><tr><td>F.E.C.</td><td>FIRE EXTINGUISHER CABINET</td><td>STD.</td><td>SEE STRUCTURAL DRAWING</td></tr><tr><td>FIN.FL.</td><td>FINISH FLOOR</td><td>STL.</td><td>STEEL</td></tr><tr><td>F.H.C.</td><td>FIRE HOSE CABINET</td><td>STRUCT.</td><td>STRUCTURAL</td></tr><tr><td>FIN.</td><td>FINISHED</td><td>T.C.</td><td>TOP OF CURB</td></tr><tr><td>F.G.</td><td>FINISH GRADE</td><td>TEL.</td><td>TELEPHONE</td></tr><tr><td>F.L.</td><td>FLOW LINE</td><td>T.O.C.</td><td>TOP OF CONCRETE</td></tr><tr><td>FLR.</td><td>FLOOR</td><td>T.O.S.</td><td>TOP OF STEEL</td></tr><tr><td>F.O.C.</td><td>FACE OF CONCRETE</td><td>T.S.</td><td>TOP OF SPANDREL</td></tr><tr><td>F.O.S.</td><td>FACE OF STUD</td><td>T.W.</td><td>TOP OF WALK, WALL</td></tr><tr><td>F.O.M.</td><td>FACE OF MASONRY</td><td>TYP.</td><td>TYPICAL</td></tr><tr><td>F.S.</td><td>TOP OF FINISH SLAB</td><td>U.N.O.</td><td>UNLESS NOTED OTHERWISE</td></tr><tr><td>GA.</td><td>GAUGE</td><td>W/</td><td>WITH</td></tr><tr><td>GALV.</td><td>GALVANIZED</td><td>W.C.</td><td>WATER CLOSET</td></tr><tr><td>GEN.</td><td>GENERAL</td><td>W.S.P.</td><td>WET STANDPIPE</td></tr><tr><td>G.I.</td><td>GALVANIZED IRON</td><td>W.S.R.</td><td>WET STANDPIPE RISER</td></tr><tr><td>GYP.</td><td>GYPSUM</td><td>W.W.M.</td><td>WELDED WIRE MESH</td></tr><tr><td>G.V.</td><td>GLOBE VALVE</td><td>W.P.</td><td>WATERPROOF</td></tr><tr><td>HT.</td><td>HEIGHT</td><td>W.R.</td><td>WATER RESISTANT</td></tr><tr><td>H.B.</td><td>HOSE BIBB</td><td>⊖</td><td>ANGLE OF PARK</td></tr><tr><td>H.P.</td><td>HIGHPOINT</td><td></td><td></td></tr><tr><td>HORIZ.</td><td>HORIZONTAL</td><td></td><td></td></tr><tr><td>I.D.</td><td>INSIDE DIAMETER</td><td></td><td></td></tr></table>	Ⓐ	AT	INT.	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SECTION REFERENCE</td><td></td><td>DOOR SCHEDULE</td></tr><tr><td></td><td>SHEET REFERENCE</td><td></td><td>DOOR NUMBER</td></tr><tr><td></td><td>WALL SECTION REFERENCE</td><td></td><td>TOP OF STRUCTURAL SLAB ELEVATION</td></tr><tr><td></td><td>SHEET REFERENCE</td><td></td><td>SIGN DESIGNATION NO.</td></tr><tr><td></td><td>EXIT SIGN</td><td></td><td>SEE SIGN AND GRAPHIC SCHEDULE</td></tr></table> <table><tr><td colspan="2">DIRECTORY</td></tr><tr><td><b>OWNER:</b> TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CA 92056</td><td><b>ARCHITECT:</b> CUNNINGHAM GROUP ARCHITECTURE, INC. 1030 G STREET SAN DIEGO, CA 92101 PHONE: 619-849-1080</td></tr><tr><td><b>PARKING STRUCTURE ARCHITECT:</b> IPD 16830 VENTURA BLVD., SUITE 130 ENCINO, CA 91436 PHONE: 818-986-1494 FAX: 818-906-8697</td><td><b>MECHANICAL/PLUMBING:</b> DUFOE CONSULTING ENGINEERS 9665 CHESAPEAKE DRIVE, SUITE 320 SAN DIEGO, CA 92123 PHONE: 856-368-8630 FAX: 866-517-3293</td></tr><tr><td><b>CIVIL:</b> BWE 9449 BALBOA AVE, STE 270 SAN DIEGO, CA 92123 PHONE: 619-299-5550</td><td><b>ELECTRICAL:</b> RANDALL LAMB 4757 PALM DRIVE LA MESA, CA 91942 PHONE: 619-713-5700</td></tr><tr><td><b>STRUCTURAL:</b> CULP &amp; TANNER 55 INDEPENDENCE CIRCLE, SUITE 201 CHICO, CA 95973 PHONE: 530-895-3518 FAX: 530-895-3544</td><td><b>LANDSCAPE:</b> JAMES P. 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EXIT SIGN		SEE SIGN AND GRAPHIC SCHEDULE	DIRECTORY		<b>OWNER:</b> TRI-CITY MEDICAL CENTER 4002 VISTA WAY OCEANSIDE, CA 92056	<b>ARCHITECT:</b> CUNNINGHAM GROUP ARCHITECTURE, INC. 1030 G STREET SAN DIEGO, CA 92101 PHONE: 619-849-1080	<b>PARKING STRUCTURE ARCHITECT:</b> IPD 16830 VENTURA BLVD., SUITE 130 ENCINO, CA 91436 PHONE: 818-986-1494 FAX: 818-906-8697	<b>MECHANICAL/PLUMBING:</b> DUFOE CONSULTING ENGINEERS 9665 CHESAPEAKE DRIVE, SUITE 320 SAN DIEGO, CA 92123 PHONE: 856-368-8630 FAX: 866-517-3293	<b>CIVIL:</b> BWE 9449 BALBOA AVE, STE 270 SAN DIEGO, CA 92123 PHONE: 619-299-5550	<b>ELECTRICAL:</b> RANDALL LAMB 4757 PALM DRIVE LA MESA, CA 91942 PHONE: 619-713-5700	<b>STRUCTURAL:</b> CULP & TANNER 55 INDEPENDENCE CIRCLE, SUITE 201 CHICO, CA 95973 PHONE: 530-895-3518 FAX: 530-895-3544	<b>LANDSCAPE:</b> JAMES P. BENEDETTI LANDSCAPE ARCHITECT 4403 MANCHESTER AVENUE, SUITE 201 ENCINITAS, CA 92024 PHONE: 760-479-0644 FAX: 760-479-0645	<p><b>ARCHITECTURAL</b></p> <table><tr><td>A0.01</td><td>COVER SHEET</td><td>S3.40</td><td>FRAME ELEVATIONS</td></tr><tr><td>A0.02</td><td>PARKING ANALYSIS</td><td>S3.41</td><td>FRAME ELEVATIONS</td></tr><tr><td>A0.03</td><td>CODE ANALYSIS</td><td>S3.50</td><td>GIRDER ELEVATIONS &amp; DETAILS</td></tr><tr><td>A0.04</td><td>PLOT PLAN EXISTING CONDITIONS</td><td>S3.60</td><td>BEAM ELEVATIONS</td></tr><tr><td>A0.05</td><td>PLOT PLAN PROPOSED PARKING STRUCTURE</td><td>S3.85</td><td>BEAM DETAILS</td></tr><tr><td></td><td></td><td>S3.90</td><td>SLAB SECTION</td></tr><tr><td></td><td></td><td>S3.91</td><td>SLAB SECTION</td></tr><tr><td></td><td></td><td>S3.92</td><td>SLAB SECTION</td></tr><tr><td></td><td></td><td>S3.93</td><td>SLAB SECTION</td></tr><tr><td>A1.01</td><td>SITE PLAN</td><td></td><td></td></tr><tr><td>A2.01</td><td>GROUND LEVEL PLAN</td><td>S4.01</td><td>ELEVATOR TOWER WALL ELEVATIONS &amp; DETAILS</td></tr><tr><td>A2.02</td><td>SECOND LEVEL PLAN</td><td>S4.02</td><td>ELEVATOR TOWER WALL DETAILS</td></tr><tr><td>A2.03</td><td>THIRD (ROOF) LEVEL PLAN</td><td>S4.03</td><td>ELEVATOR TOWER WALL DETAILS</td></tr><tr><td>A3.01</td><td>BUILDING ELEVATIONS</td><td>S5.01</td><td>CONCRETE DETAILS</td></tr><tr><td>A3.02</td><td>BUILDING SECTIONS</td><td>S5.02</td><td>CONCRETE DETAILS</td></tr><tr><td></td><td></td><td>S5.03</td><td>CONCRETE DETAILS</td></tr><tr><td>A4.01</td><td>ELEVATORS NO. 1 &amp; 2 AND STAIR NO. 1 PLANS</td><td>S5.04</td><td>CONCRETE DETAILS</td></tr><tr><td>A4.02</td><td>ELEVATORS NO. 1 &amp; 2 AND STAIR NO. 1 PLANS AND ELEVATION</td><td>S5.10</td><td>CONCRETE DETAILS</td></tr><tr><td>A4.03</td><td>ELEVATORS NO. 1 &amp; 2 AND STAIR NO. 1 SECTIONS</td><td></td><td></td></tr><tr><td>A4.04</td><td>STAIR NO. 2 PLANS AND SECTION</td><td></td><td></td></tr><tr><td>A4.05</td><td>STAIR NO. 3 PLANS AND SECTION</td><td></td><td></td></tr><tr><td>A4.06</td><td>STAIR NO. 4 PLANS AND SECTION</td><td></td><td></td></tr><tr><td>A4.07</td><td>ENLARGED MISC. ROOM PLANS</td><td></td><td></td></tr><tr><td>A4.08</td><td>TYPICAL STAIR DETAILS</td><td></td><td></td></tr><tr><td>A4.09</td><td>TYPICAL STAIR DETAILS</td><td></td><td></td></tr><tr><td>A4.10</td><td>TYPICAL STAIR RAIL DETAILS</td><td></td><td></td></tr><tr><td>A4.11</td><td>TYPICAL STAIR RAIL DETAILS</td><td></td><td></td></tr><tr><td>A4.12</td><td>TYPICAL STAIR RAIL DETAILS</td><td></td><td></td></tr><tr><td>A5.01</td><td>DOOR SCHEDULE &amp; DETAILS</td><td></td><td></td></tr></table> <p><b>MECHANICAL/PLUMBING</b></p> <table><tr><td>MP0.01</td><td>MECHANICAL PLUMBING LEGENDS AND NOTES</td><td></td><td></td></tr><tr><td>MP0.02</td><td>MECHANICAL PLUMBING SCHEDULES</td><td></td><td></td></tr><tr><td></td><td></td><td>MP2.01</td><td>MECHANICAL PLUMBING GROUND LEVEL PLAN</td></tr><tr><td></td><td></td><td>MP2.02</td><td>MECHANICAL PLUMBING SECOND LEVEL PLAN</td></tr><tr><td></td><td></td><td>MP2.03</td><td>MECHANICAL PLUMBING THIRD (ROOF) LEVEL PLAN</td></tr><tr><td></td><td></td><td>MP3.01</td><td>MECHANICAL PLUMBING DETAILS</td></tr><tr><td></td><td></td><td>MP3.02</td><td>MECHANICAL PLUMBING DETAILS</td></tr></table> <p><b>ELECTRICAL</b></p> <table><tr><td>E0.1</td><td>ELECTRICAL SYMBOLS AND ABBREVIATIONS</td><td></td><td></td></tr><tr><td>E1.1</td><td>TITLE 24 DOCUMENTATION</td><td></td><td></td></tr><tr><td>E1.2</td><td>TITLE 24 DOCUMENTATION</td><td></td><td></td></tr><tr><td>E1.3</td><td>TITLE 24 DOCUMENTATION</td><td></td><td></td></tr><tr><td>E2.1</td><td>SINGLE DIAGRAM &amp; PANEL SCHEDULES</td><td></td><td></td></tr><tr><td>E2.2</td><td>LIGHTING CONTROLS DIAGRAM</td><td></td><td></td></tr><tr><td>E3.0</td><td>ELECTRICAL DEMOLITION SITE PLAN</td><td></td><td></td></tr><tr><td>E3.1</td><td>ELECTRICAL SITE PLAN</td><td></td><td></td></tr><tr><td>E4.1</td><td>GROUND FLOOR LIGHTING PLAN</td><td></td><td></td></tr><tr><td>E4.2</td><td>2ND FLOOR LIGHTING PLAN</td><td></td><td></td></tr><tr><td>E4.3</td><td>ROOF LIGHTING PLAN</td><td></td><td></td></tr><tr><td>E5.1</td><td>GROUND FLOOR POWER &amp; SIGNAL PLAN</td><td></td><td></td></tr><tr><td>E5.2</td><td>2ND FLOOR POWER &amp; SIGNAL PLAN</td><td></td><td></td></tr><tr><td>E5.3</td><td>ROOF POWER &amp; SIGNAL PLAN</td><td></td><td></td></tr><tr><td>E5.4</td><td>ELECTRICAL ENLARGED PLANS</td><td></td><td></td></tr><tr><td>E6.1</td><td>ELECTRICAL DETAILS</td><td></td><td></td></tr><tr><td>E7.1</td><td>GROUND FLOOR PHOTOMETRIC PLAN</td><td></td><td></td></tr><tr><td>E7.2</td><td>GROUND FLOOR PHOTOMETRIC EGRESS PLAN</td><td></td><td></td></tr><tr><td>E7.3</td><td>2ND FLOOR PHOTOMETRIC PLAN</td><td></td><td></td></tr><tr><td>E7.4</td><td>2ND FLOOR PHOTOMETRIC EGRESS PLAN</td><td></td><td></td></tr><tr><td>E7.5</td><td>ROOF PHOTOMETRIC PLAN</td><td></td><td></td></tr><tr><td>E7.6</td><td>ROOF PHOTOMETRIC EGRESS PLAN</td><td></td><td></td></tr><tr><td>E7.7</td><td>SITE PHOTOMETRIC PLAN</td><td></td><td></td></tr></table> <p><b>CIVIL</b></p> <table><tr><td>C1.21</td><td>UTILITY PLAN</td><td></td><td></td></tr><tr><td>C1.22</td><td>UTILITY PLAN</td><td></td><td></td></tr></table> <p><b>STRUCTURAL</b></p> <table><tr><td>S1.00</td><td>STRUCTURAL COVER SHEET</td><td></td><td></td></tr><tr><td>S1.01</td><td>STRUCTURAL COVER SHEET CONTINUED</td><td></td><td></td></tr><tr><td>S1.02</td><td>POST TENSIONING NOTES &amp; DETAILS</td><td></td><td></td></tr><tr><td>S1.05</td><td>SPECIAL INSPECTION NOTES</td><td></td><td></td></tr><tr><td>S2.01</td><td>GROUND LEVEL FOUNDATION PLAN</td><td></td><td></td></tr><tr><td>S2.02</td><td>SECOND LEVEL FRAMING PLAN</td><td></td><td></td></tr><tr><td>S2.03</td><td>THIRD (ROOF) LEVEL FRAMING PLAN</td><td></td><td></td></tr><tr><td>S2.10</td><td>PARTIAL PLANS</td><td></td><td></td></tr><tr><td>S3.10</td><td>COLUMN SCHEDULE &amp; DETAILS</td><td></td><td></td></tr><tr><td>S3.11</td><td>COLUMN DETAILS</td><td></td><td></td></tr><tr><td>S3.15</td><td>FRAME COLUMN SCHEDULES &amp; DETAILS</td><td></td><td></td></tr></table>	A0.01	COVER SHEET	S3.40	FRAME ELEVATIONS	A0.02	PARKING ANALYSIS	S3.41	FRAME ELEVATIONS	A0.03	CODE ANALYSIS	S3.50	GIRDER ELEVATIONS & DETAILS	A0.04	PLOT PLAN EXISTING CONDITIONS	S3.60	BEAM ELEVATIONS	A0.05	PLOT PLAN PROPOSED PARKING STRUCTURE	S3.85	BEAM DETAILS			S3.90	SLAB SECTION			S3.91	SLAB SECTION			S3.92	SLAB SECTION			S3.93	SLAB SECTION	A1.01	SITE PLAN			A2.01	GROUND LEVEL PLAN	S4.01	ELEVATOR TOWER WALL ELEVATIONS & DETAILS	A2.02	SECOND LEVEL PLAN	S4.02	ELEVATOR TOWER WALL DETAILS	A2.03	THIRD (ROOF) LEVEL PLAN	S4.03	ELEVATOR TOWER WALL DETAILS	A3.01	BUILDING ELEVATIONS	S5.01	CONCRETE DETAILS	A3.02	BUILDING SECTIONS	S5.02	CONCRETE DETAILS			S5.03	CONCRETE DETAILS	A4.01	ELEVATORS NO. 1 & 2 AND STAIR NO. 1 PLANS	S5.04	CONCRETE DETAILS	A4.02	ELEVATORS NO. 1 & 2 AND STAIR NO. 1 PLANS AND ELEVATION	S5.10	CONCRETE DETAILS	A4.03	ELEVATORS NO. 1 & 2 AND STAIR NO. 1 SECTIONS			A4.04	STAIR NO. 2 PLANS AND SECTION			A4.05	STAIR NO. 3 PLANS AND SECTION			A4.06	STAIR NO. 4 PLANS AND SECTION			A4.07	ENLARGED MISC. 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Title 24, Parts 1-5 must be kept on site during construction.</li><li>All plan dimensions indicated are to column centerline, to face of concrete, to face of masonry or to face of studs unless otherwise noted.</li><li>Floor elevations indicated are to top of structural or grade slab not including curbs or crickets unless noted otherwise. For thickened slab edges, add 2" on top of structural slab elevation.</li><li>Contractor shall be responsible for verifying all dimensions in the field, and in the event of discrepancy, reporting such discrepancy to the Architect.</li><li>Temporary fence and canopy for the protection of pedestrians shall be provided as required. Comply with 2016 California Fire Code, Article 87 and Owner Safety Requirements during all phases of work.</li><li>All new or replaced street paving, curbs, gutters, sidewalks and driveways in public ways shall be constructed as per the standards and requirements of the Building Department.</li><li>Temporary on-site toilet facilities shall be provided.</li><li>All typical parking spaces shall be double striped using 4" wide paint lines.</li><li>The vertical dimension from the finish floor to the underside of any structural element, piping, electrical fixture, etc., shall be 8'-2" minimum in accessible areas and 7'-0" elsewhere. No horizontal piping shall occur below bottom of beams.</li><li>6'-8" minimum headroom shall be provided at all exit stairs. 7'-0" min. Ⓢ landing</li><li>All stair railings and guardrails shall have maximum division rails spacing to reject a 4" ⌀ ball. All guard rails shall be 3'-6" high, min.</li><li>Parking spaces shall not obstruct required exits. Aisles leading to required exits shall have a minimum width of 44".</li><li>Provide exit signs and directional exit signs with a minimum 6" high by ¾" stroke black letters on contrasting background.</li><li>Exit signs shall be electrically illuminated and the two lamps shall be energized from separate circuits. Illumination shall normally be provided by the premises wiring system. In the event of failure of this system, illumination shall be automatically provided from an emergency system.</li><li>Deck coating on traffic decks at floor areas over equipment/storage rooms, over construction joints at roof level, etc. shall consist of elastomeric coating, see specifications.</li><li>Provide ABC fire extinguisher and fire extinguisher cabinets as shown on the drawings (FEC) and as may be required by the State Fire Marshal and local fire inspector. Minimum size is 4A60BC. Fire extinguisher cabinet opening hardware shall be 48" AFF maximum. U-shape pull and latch force shall be less than 5 lbs. per CBC 11B-309.4.</li><li>All vertical pipe risers shall be held tight to face of column or wall clear of legal parking stall. Risers passing through slab shall have a pipe sleeve that extends 1" above finish floor and sealed watertight.</li><li>Top of floor drains shall be set 1/4" (max.) lower than surrounding concrete finish surface. See specs for requirements to achieve positive drainage to drain.</li><li>All horizontal piping shall be held tight to decks.</li><li>Grading plans, drainage improvements, road and access requirements and environmental health requirements shall comply with all local ordinances.</li><li>Floor elevations shown in sections and elevations are at the building perimeter unless noted otherwise in other drawings such as floor plans and , except at entry, where noted. Contractor is responsible to confirm actual elevations to be used.</li><li>Installation of Deferred Approval items shall not be started until Contractor's Drawings, Specifications and Engineering calculations for the actual systems to be installed have been approved and signed by the Architect and Structural Engineer and approved by the Building Department.</li><li>Grading plans, drainage improvements, road and access requirements and environmental health consideration shall comply with all local ordinances.</li></ol>	<p><b>DEFERRED APPROVALS</b></p> <p>Installation of the items listed below shall not be started until detailed plans and specifications are approved by the Building Department:</p> <ol style="list-style-type: none"><li>Storefront system</li><li>Metal Stairs, Handrails, Guardrails and Landings</li><li>Cable barriers</li><li>Installation of elevator guide rails and support brackets.</li></ol> <p><b>NOTE:</b></p> <ol style="list-style-type: none"><li>Installation of elevator guide rails and brackets shall be in compliance with ASME 17.1-1996; CBC Part 2, Chapter 30; CCR, Title 8</li></ol> <p><b>EXPANDED VIEW</b></p> <p>THIRD LEVEL</p> <p>SECOND LEVEL</p> <p>GROUND LEVEL</p>
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A4.05	STAIR NO. 3 PLANS AND SECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
A4.06	STAIR NO. 4 PLANS AND SECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
A4.07	ENLARGED MISC. ROOM PLANS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
A4.08	TYPICAL STAIR DETAILS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
A4.09	TYPICAL STAIR DETAILS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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A4.12	TYPICAL STAIR RAIL DETAILS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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		MP2.03	MECHANICAL PLUMBING THIRD (ROOF) LEVEL PLAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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E2.1	SINGLE DIAGRAM & PANEL SCHEDULES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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S3.15	FRAME COLUMN SCHEDULES & DETAILS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
<p><b>VICINITY MAP</b></p> <p><b>PROJECT SITE</b></p> <p><b>BUILDING ADDRESS:</b> VISTA WAY OCEANSIDE, CA 92056</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	





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Revisions

No.	Date	Description
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Document Phase: Backcheck #1

Date: MAY 24, 2018

PIC / AIC: -

Drawn By: VC

Checked By: DV

Comm. No.: -

Project Title

TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY

Sheet Title

PARKING ANALYSIS

Sheet Number

A0.02

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OPEN AIR CALCULATIONS

LEVEL:		GROUND							
ELEVATION	LIN. FOOT WALL	REQ'D LIN. FT. OPG.(4%)*	PROVIDED LIN. FT. OPG.	WALL AREA	REQ'D WALL OPG.(20%)*	PROVIDED OPENING	REMARKS		
NORTH	309.50	123.80	46.50	3,379.74	675.95	340.85			
SOUTH	309.50	123.80	249.00	3,379.74	675.95	1,220.64			
WEST	188.00	75.20	110.54	2,052.96	410.59	242.13			
EAST	188.00	75.20	114.18	2,052.96	410.59	1,168.99			
TOTAL:	995.00	398.00	520.22	10,865.40	2,173.08	2,972.60			
			52.28%			27.36%			
LEVEL:		SECOND							
ELEVATION	LIN. FOOT WALL	REQ'D LIN. FT. OPG.(4%)*	PROVIDED LIN. FT. OPG.	WALL AREA	REQ'D WALL OPG.(20%)*	PROVIDED OPENING	REMARKS		
NORTH	309.50	123.80	254.75	3,379.74	675.95	1,905.35			
SOUTH	309.50	123.80	262.00	3,379.74	675.95	1,789.40			
WEST	188.00	75.20	176.68	2,052.96	410.59	1,281.12			
EAST	188.00	75.20	120.18	2,052.96	410.59	861.69			
TOTAL:	995.00	398.00	813.61	10,865.40	2,173.08	5,837.56			
			81.77%			53.73%			

PARKING SPACE AND AREA SUMMARY

S = 8'-6" X 18'-0"		Ø = 90"		BUILDING SIZE = 309'-6" X 188'					
AREA	ON-GRADE SLAB (SF)	ELEVATED SLAB (SF)	NUMBER OF SPACES				TOTAL	SF / SPACE	
			VAN	ACCESSIBLE	STANDARD				
1A	19,970		2	2	48		52	384.04	
1B	19,270			3	53		56	344.11	
1C	19,410				60		60	323.50	
2A		19,595		1	61		62	316.05	
2B		19,190			62		62	309.52	
2C		19,270			65		65	296.46	
3A		19,490		1	62		63	309.37	
3B		19,190			65		65	295.23	
3C		4,365			10		10	436.50	
Totals =	58,650	101,100	2	7	486		495		
		58,650							
Gross Floor Area (SF) =		159,750							
Total Spaces =							495		
Design Efficiency =		159,750	÷	495	=			322.73	

ACCESSIBLE SPACE REQUIREMENTS

	CODE REFERENCE	REQUIRED	PROVIDED
ACCESSIBLE SPACES (AS):	TABLE 11B-208.2	7	7
VAN ACCESSIBLE SPACES (VAS)	ONE FOR EVERY 6 OR FRACTION OF 6 PARKING SPACES PER SECTION 11B-208.2.4	2	2
TOTAL ACCESSIBLE SPACES	TABLE 11B-208.2	9	9

CLEAN AIR VEHICLE REQUIREMENTS

	CODE REFERENCE	REQUIRED	PROVIDED	COMMENT
CLEAN AIR VEHICLE SPACES:	8% OF TOTAL PARKING SPACES PER TABLE 5.106.5.2	8% x 495 = 39.6	40	TOTAL NUMBER OF CLEAN AIR VEHICLE INCLUDES THE TOTAL NUMBER OF FUTURE E.V. SPACES PER SECTION 5.106.5.3.5
FUTURE ELECTRICAL VEHICLE CHARGING SPACES:	6% OF TOTAL PARKING SPACES PER TABLE 5.106.5.3.3 & TABLE 11B-228.3.2.1	6% x 495 = 29.7	30	TOTAL NUMBER INCLUDES ONE (1) FUTURE STANDARD, ONE (1) FUTURE VAN ACCESSIBLE EVCS, ONE (1) AMBULATORY SPACE

BICYCLE PARKING REQUIREMENTS

	CODE REFERENCE	REQUIRED	PROVIDED
LONG-TERM BICYCLE PARKING:	5% OF TOTAL PARKING SPACES PER SECTION 5.106.4.1.2	5% x 495 = 24.75	25

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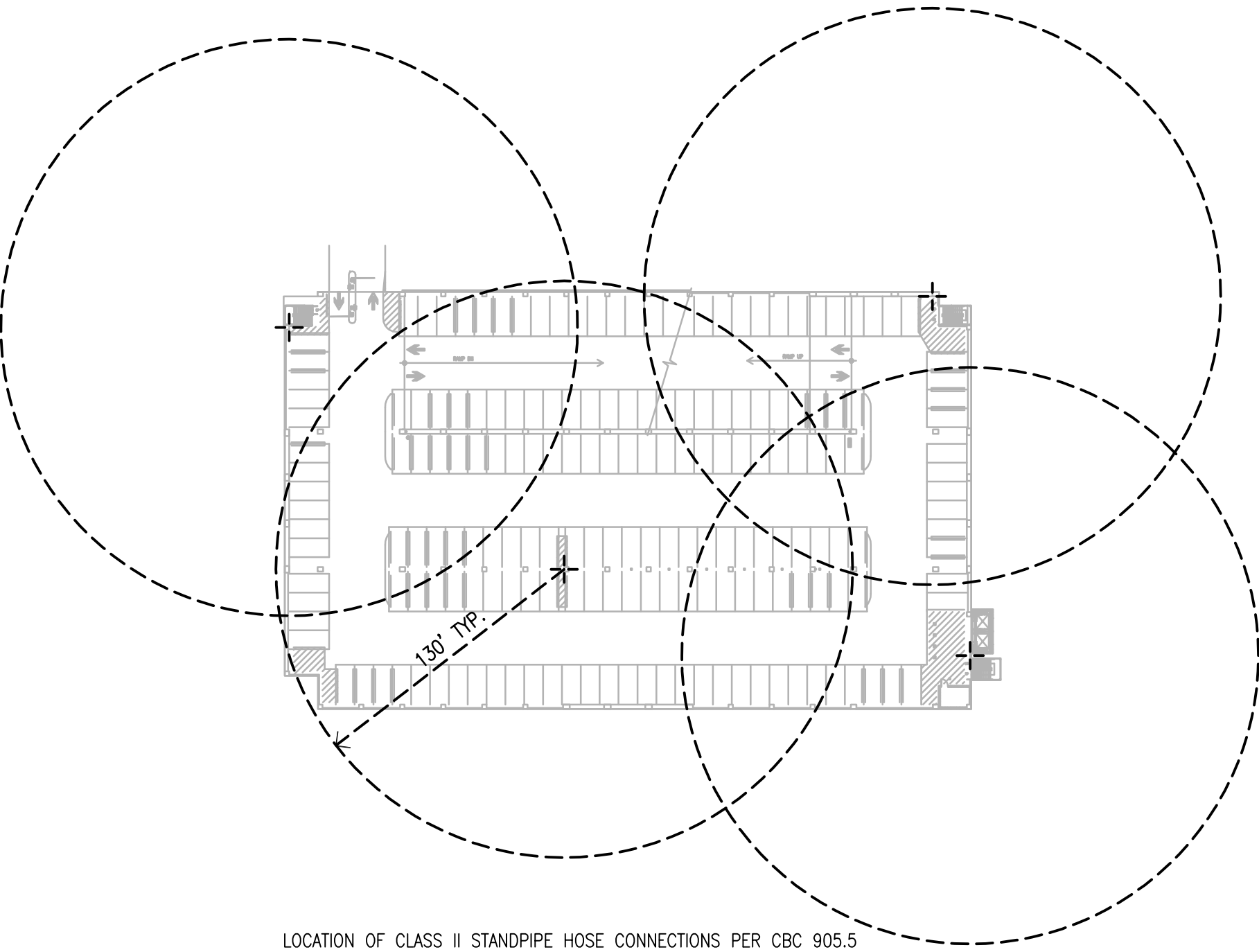
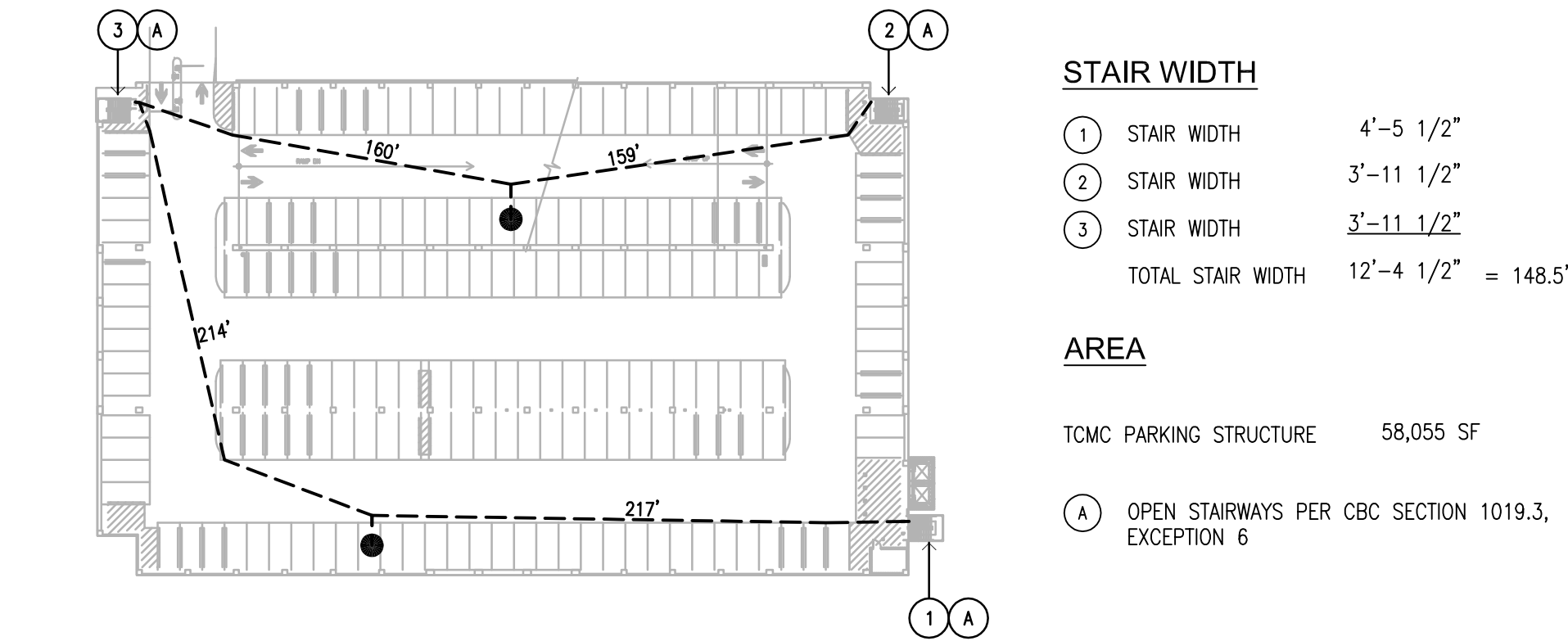


OCCUPANT LOAD AND EGRESS CALCULATIONS

STANDPIPE LOCATIONS

CODE SUMMARY

	CODE REFERENCE	REQUIRED	PROVIDED
OCCUPANT LOAD:	TABLE 1004.1.2		58,650 SF/200 = 293.25
TOTAL EGRESS (STAIRWAYS) WIDTH:	SECTION 1005.3.1	293.25 x .3 = 87.98" PER LEVEL	148.5" PER LEVEL
TOTAL NUMBER OF EXIT (STAIRWAYS) PER LEVEL:	TABLE 1006.3.1	2 MIN.	3
EXIT ACCESS TRAVEL DISTANCE:	TABLE 1017.2	300' MAXIMUM	300' MAXIMUM



OCCUPANCY CLASSIFICATION:	S-2 (Per Section 311.3), OPEN PARKING STRUCTURE
TYPE OF CONSTRUCTION:	IB (Per Table 601 & Section 602.2)
FIRE PROTECTION:	STANDPIPE SYSTEM
MAX FLOOR AREA ALLOWANCE PER OCCUPANT:	200 (Per Table 1004.1.2)
ROOF COVERING CLASSIFICATION:	B (Per Table 1505.1)
ELEVATOR HOISTWAY ENCLOSURE:	2 HRS. (Per Section 713.4)
BUILDING TIERS:	TABLE 406.5.4 12 TIERS
BUILDING AREA PER TIER:	TABLE 406.5.4 UL
FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE:	TABLE 602, FOOTNOTE d
EXTERIOR OPENING PROTECTION:	TABLE 705.8, FOOTNOTE g

FIRE RESISTIVE REQUIREMENTS FOR TYPE IB NON-COMBUSTIBLE MATERIALS		
	REQUIRED	PROVIDED
BUILDING ELEMENT:	PRIMARY STRUCTURAL FRAME	1. REINFORCED CONCRETE COLUMNS, BEAMS, GIRDERS 2. UNBONDED POST-TENSIONED TENDONS CONCRETE BEAMS & GIRDERS
HOURLY:	2 HOURS	1. 2-HOURS 2. 2-HOURS
CODE REFERENCE:	TABLE 601	1. TABLE 721.1(1), 5-1.1 2. TABLE 721.1(1), 4-1.2

BUILDING ELEMENT:	BEARING WALLS -EXTERIOR -INTERIOR	THERE ARE NO EXTERIOR/INTERIOR BEARING WALLS
HOURLY:	2 HOURS	-
CODE REFERENCE:	TABLE 601	-

BUILDING ELEMENT:	NONBEARING WALLS & PARTITIONS -EXTERIOR	CONCRETE MASONRY UNITS (8" MIN THICK CMU)
HOURLY:	NOT REQUIRED BETWEEN 10'≤ X <30'	10' OR GREATER NONE REQUIRED
CODE REFERENCE:	TABLE 602, FOOTNOTE d	-

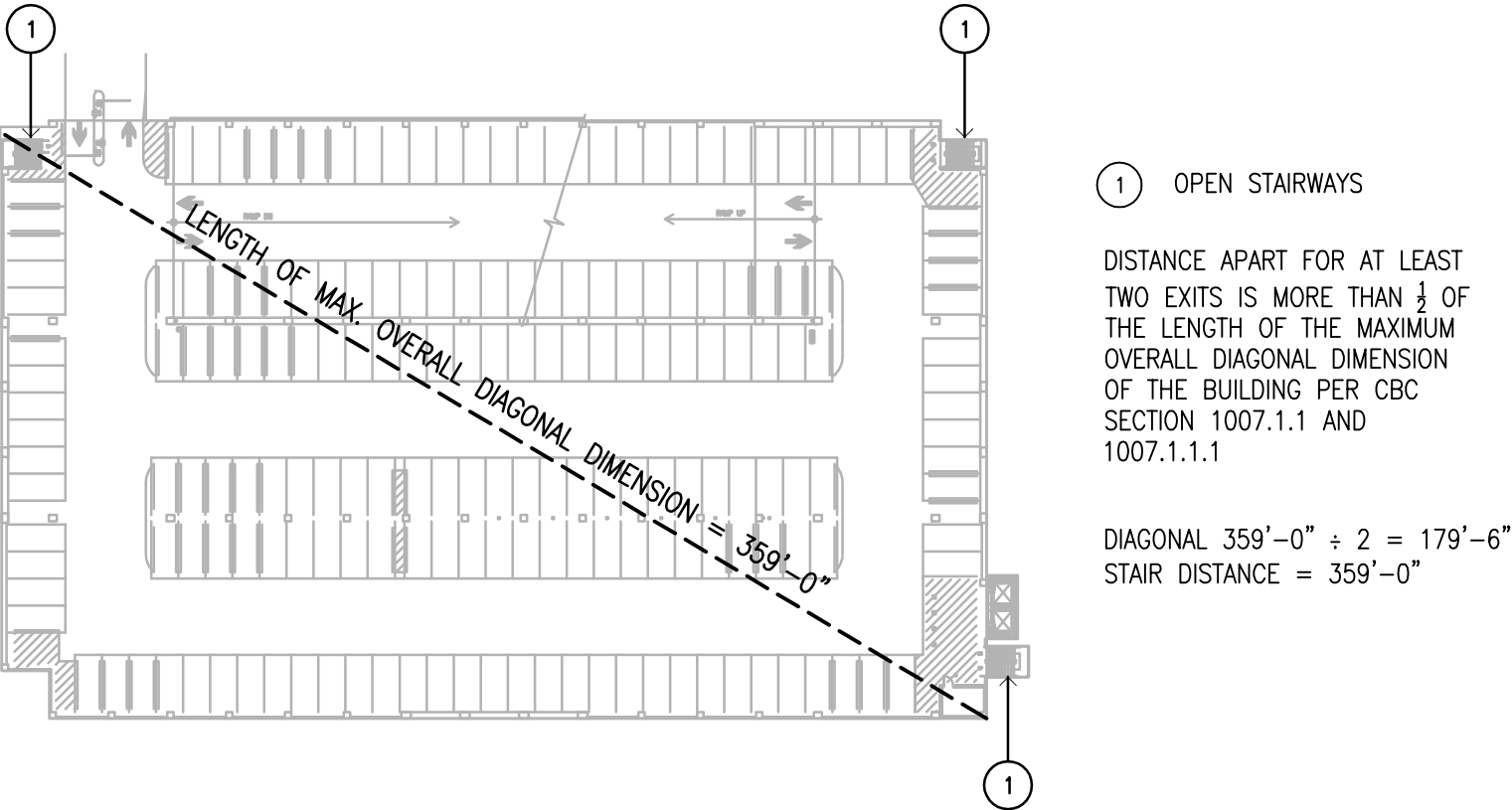
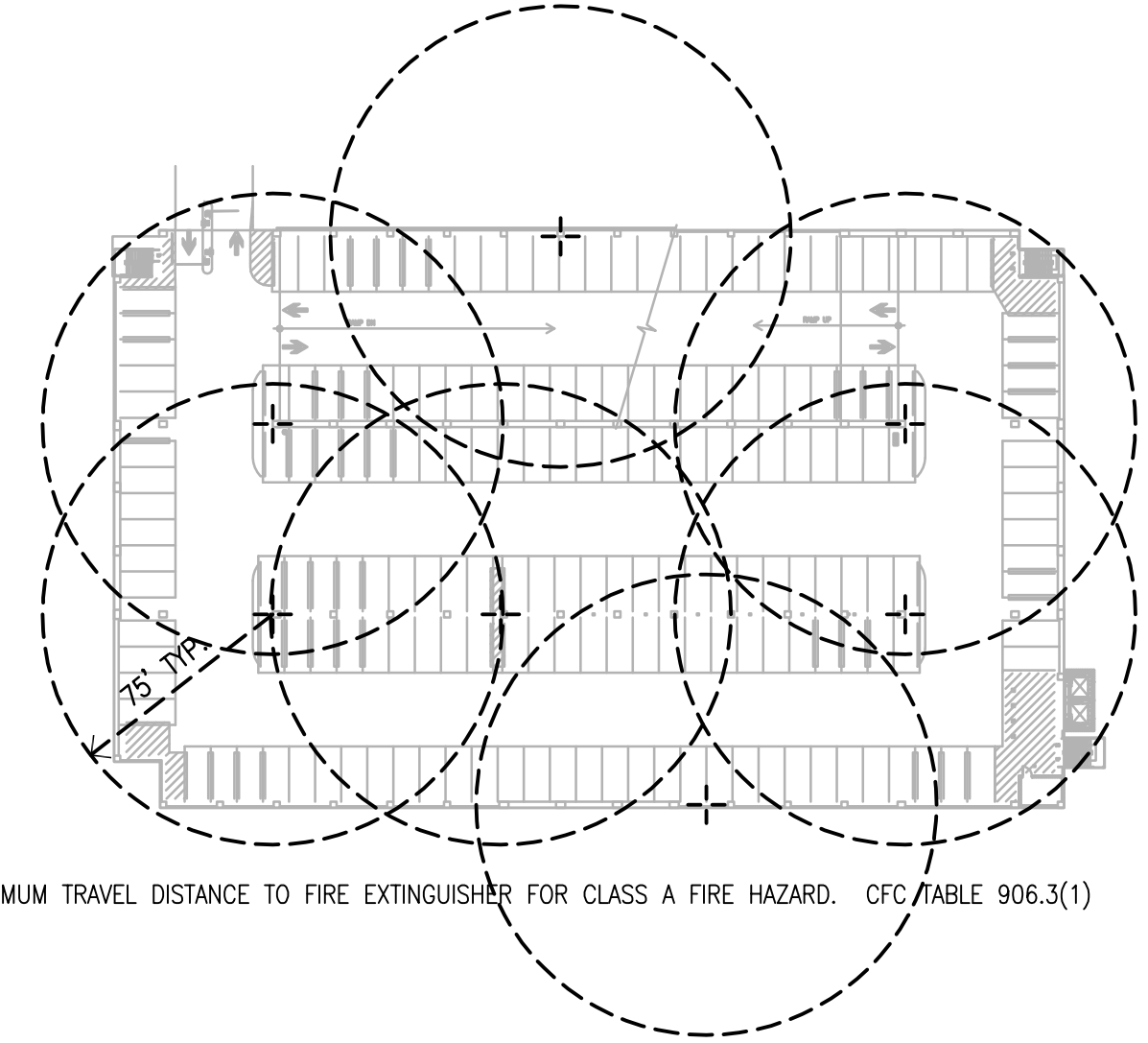
BUILDING ELEMENT:	NONBEARING WALLS & PARTITIONS -INTERIOR	CONCRETE MASONRY UNITS (8" MIN. THICK CMU)
HOURLY:	0 HOURS	-
CODE REFERENCE:	TABLE 601	TABLE 721.1(2), 3-1.4

BUILDING ELEMENT:	FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	5" SLAB (P.T. & REINFORCED CONCRETE SLAB)
HOURLY:	2 HOURS	2 HOURS
CODE REFERENCE:	TABLE 601	TABLE 721.1(3), 1-1.1

BUILDING ELEMENT:	ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	THERE ARE NO ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS
HOURLY:	1 HOUR	-
CODE REFERENCE:	TABLE 601	-

MAXIMUM TRAVEL DISTANCE TO FIRE EXTINGUISHER

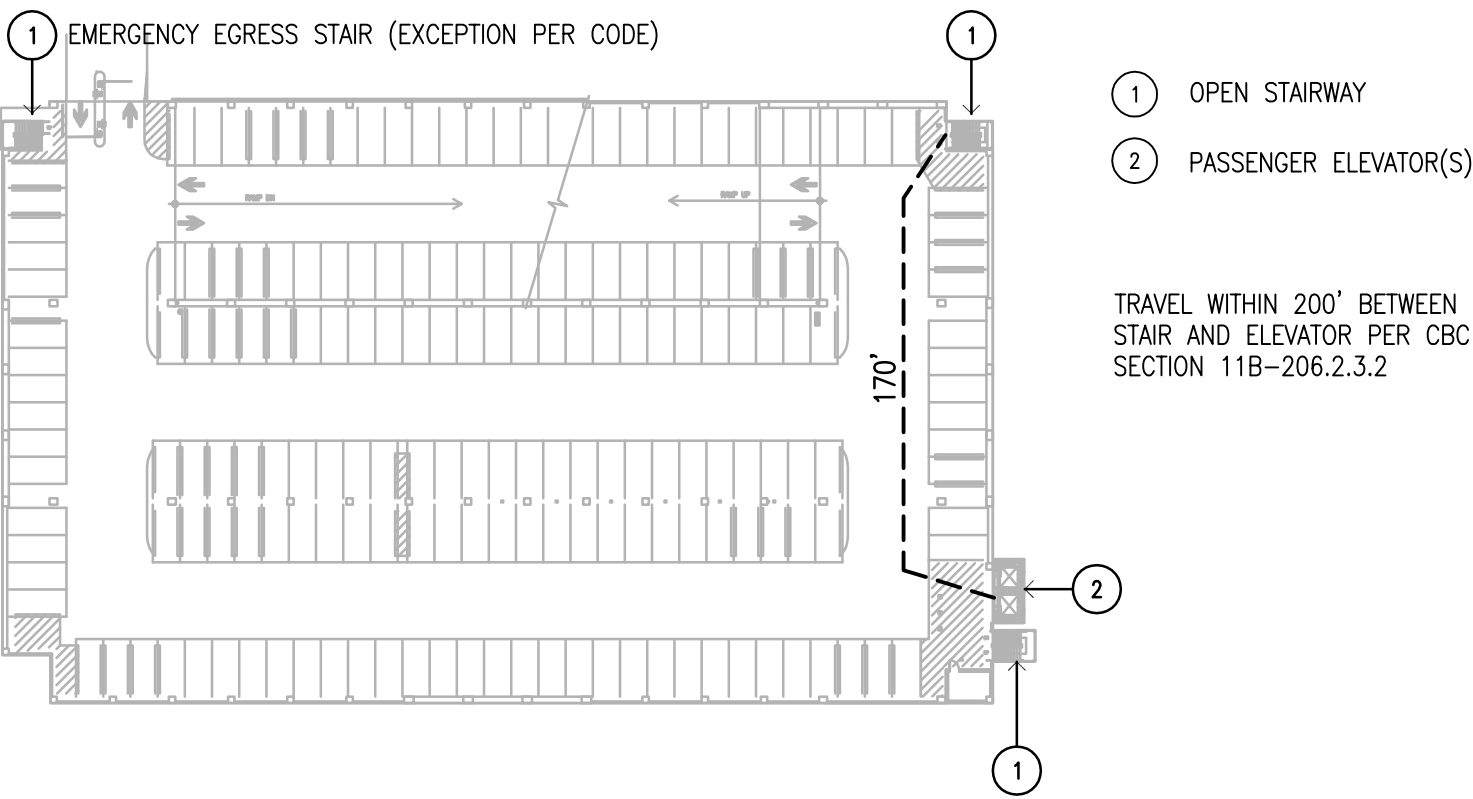
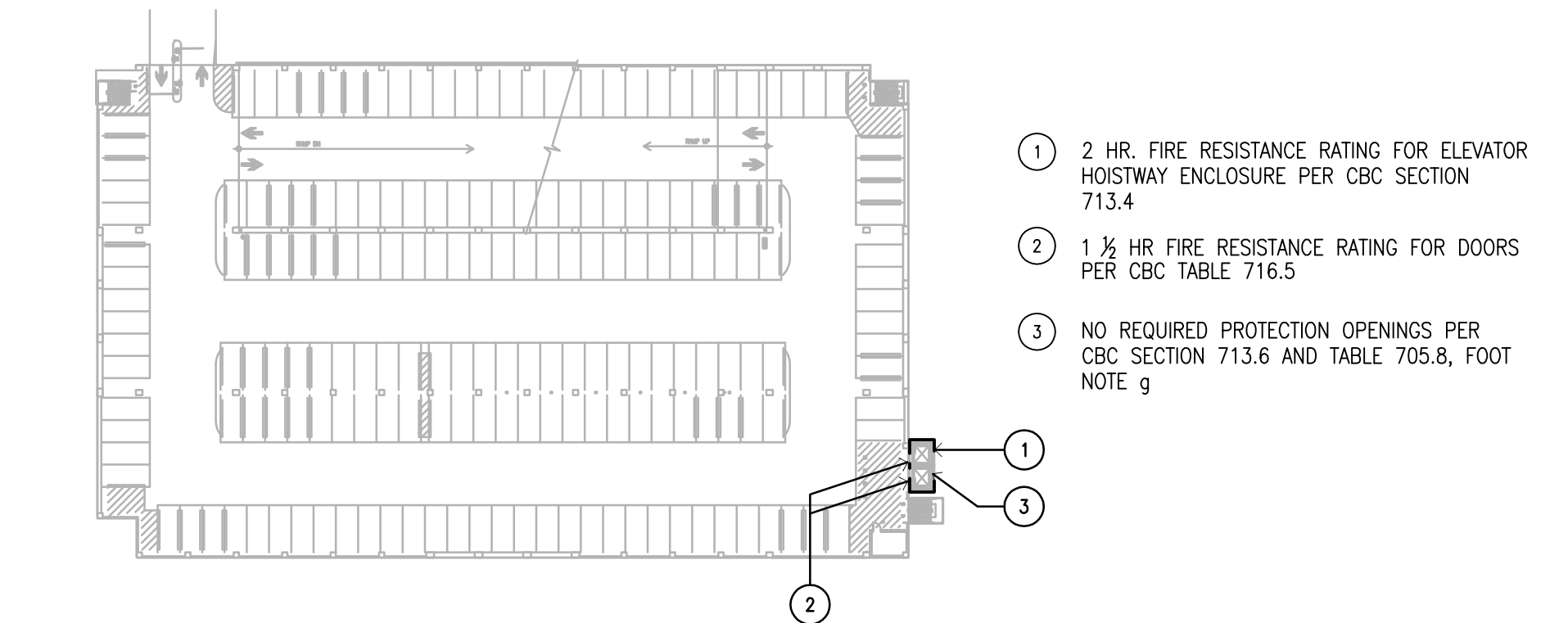
DISTANCE APART BETWEEN TWO STAIRS



FIRE RESISTANCE RATING

ELEVATOR DISTANCE TO STAIRS

2016 CALIFORNIA CODE OF REGULATION



APPLICABLE CODES AS OF JANUARY 1, 2017 NOT LIMITED TO:

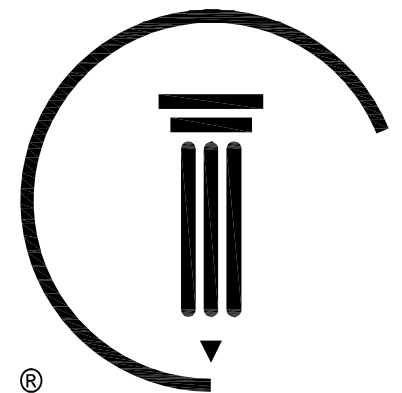
- 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, CCR TITLE 24
- 2016 CALIFORNIA BUILDING CODE, PART 2, VOLUMES 1 & 2, CCR TITLE 24
- 2016 CALIFORNIA ELECTRICAL CODE, PART 3, CCR TITLE 24
- 2016 CALIFORNIA MECHANICAL CODE, PART 4, CCR TITLE 24
- 2016 CALIFORNIA PLUMBING CODE, PART 5, CCR TITLE 24
- 2016 CALIFORNIA ENERGY CODE, PART 6, CCR TITLE 24
- 2016 CALIFORNIA FIRE CODE, PART 9, CCR TITLE 24
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, CCR TITLE 24
- 2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, CCR TITLE 24

PARTIAL LIST OF APPLICABLE STANDARDS

- NFPA 14 STANDPIPE SYSTEMS 2016 EDITION
- NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2016 EDITION
- NFPA 17a WET CHEMICAL SYSTEMS 2016 EDITION
- NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2016 EDITION

NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES"

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2016 CBC (SFM) 3504.1



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Comm. No.: -

Project Title  
TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY

Sheet Title  
CODE ANALYSIS

Sheet Number

A0.03

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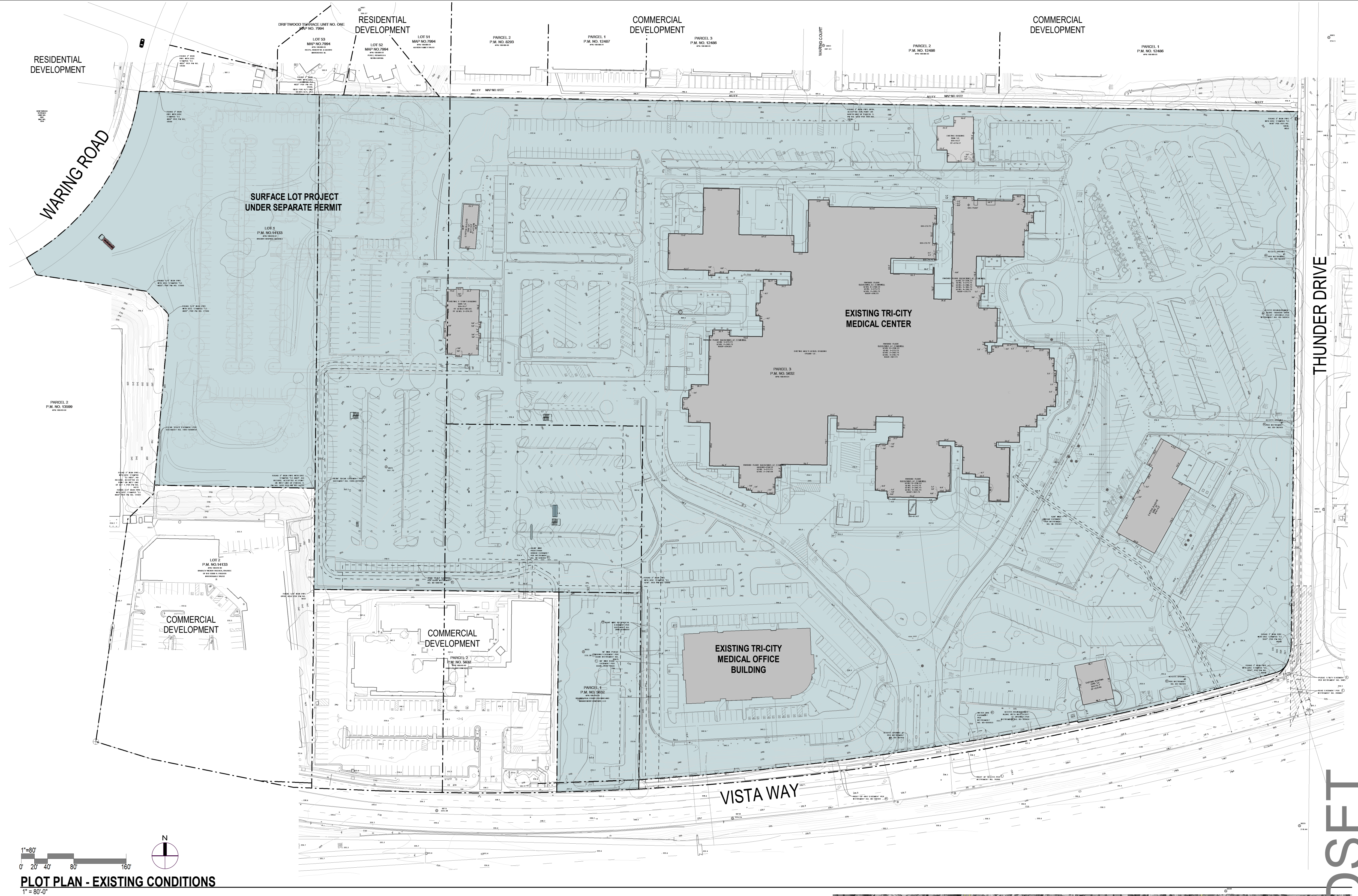
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Date:	MAY 24th, 201
Author / AIC:	P
Drawn By:	Auth
Checked By:	Check
Comm. No.:	PR17-03

## CMC PARKING STRUCTURE AND MAIN ENTRY

## LOT PLAN - EXISTING CONDITIONS

## A0.04

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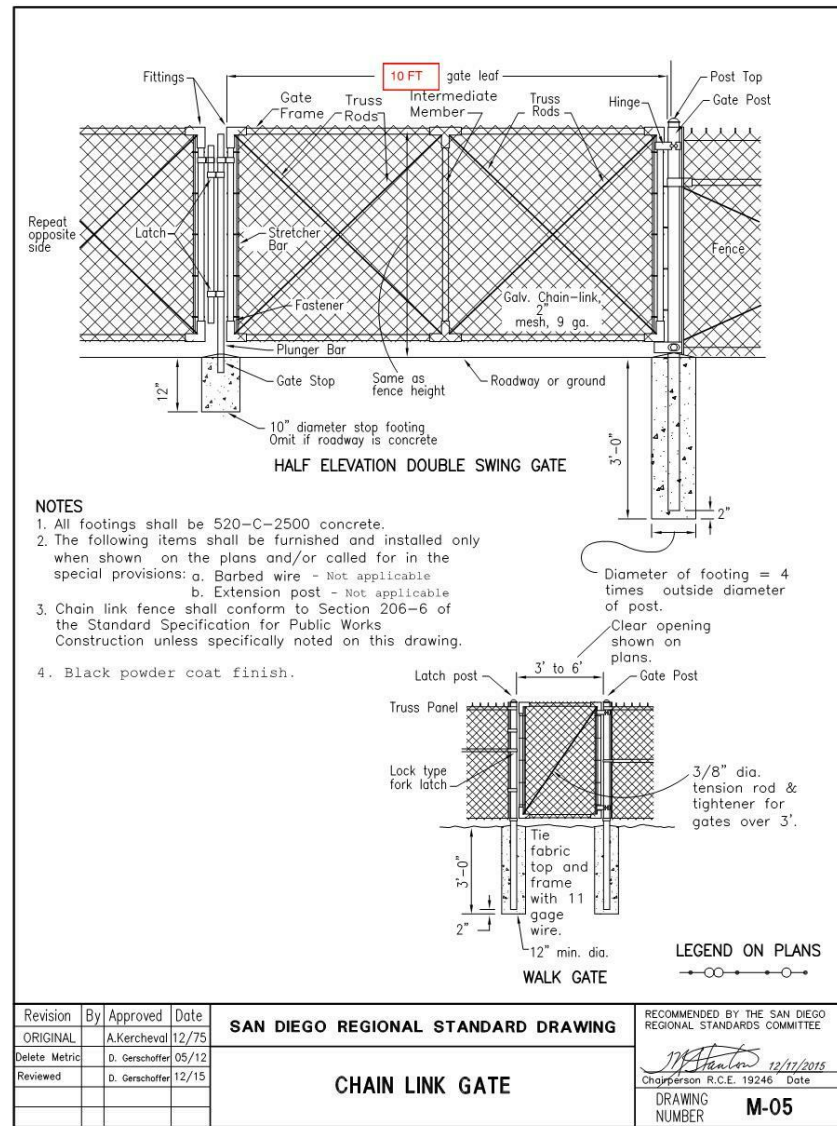


**Aerial Map**  
12" = 1'-0"

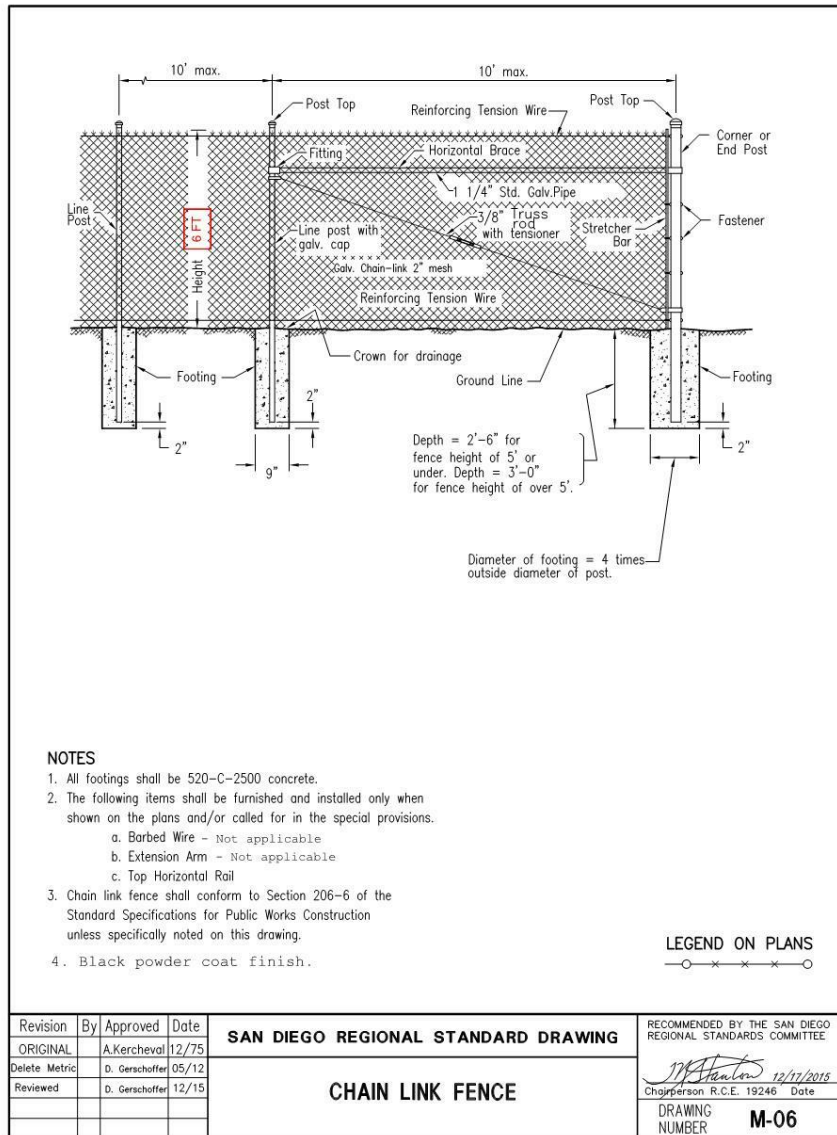
$$12^s = 1'-0'$$

# 2010.02.20 SAT

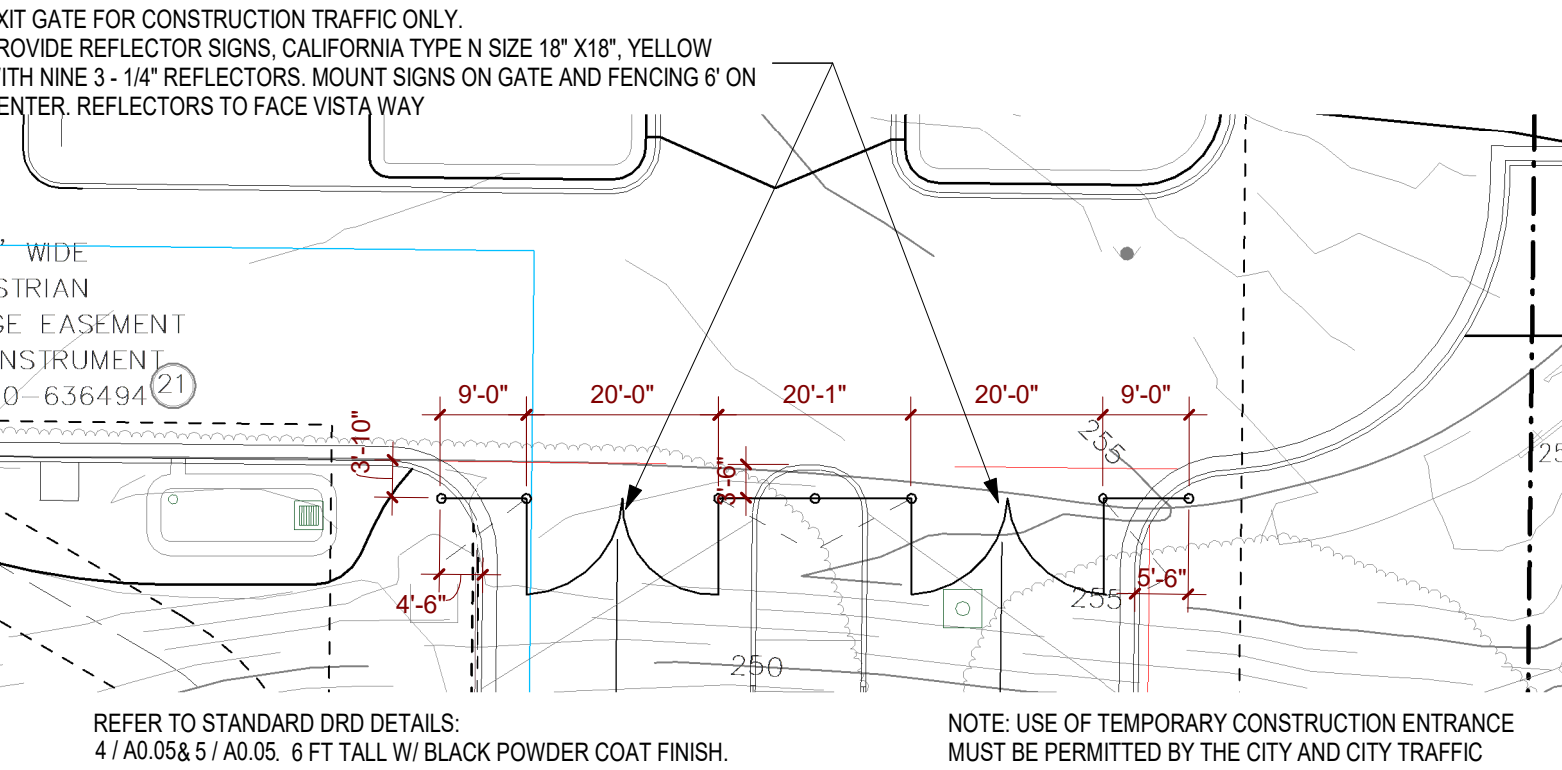




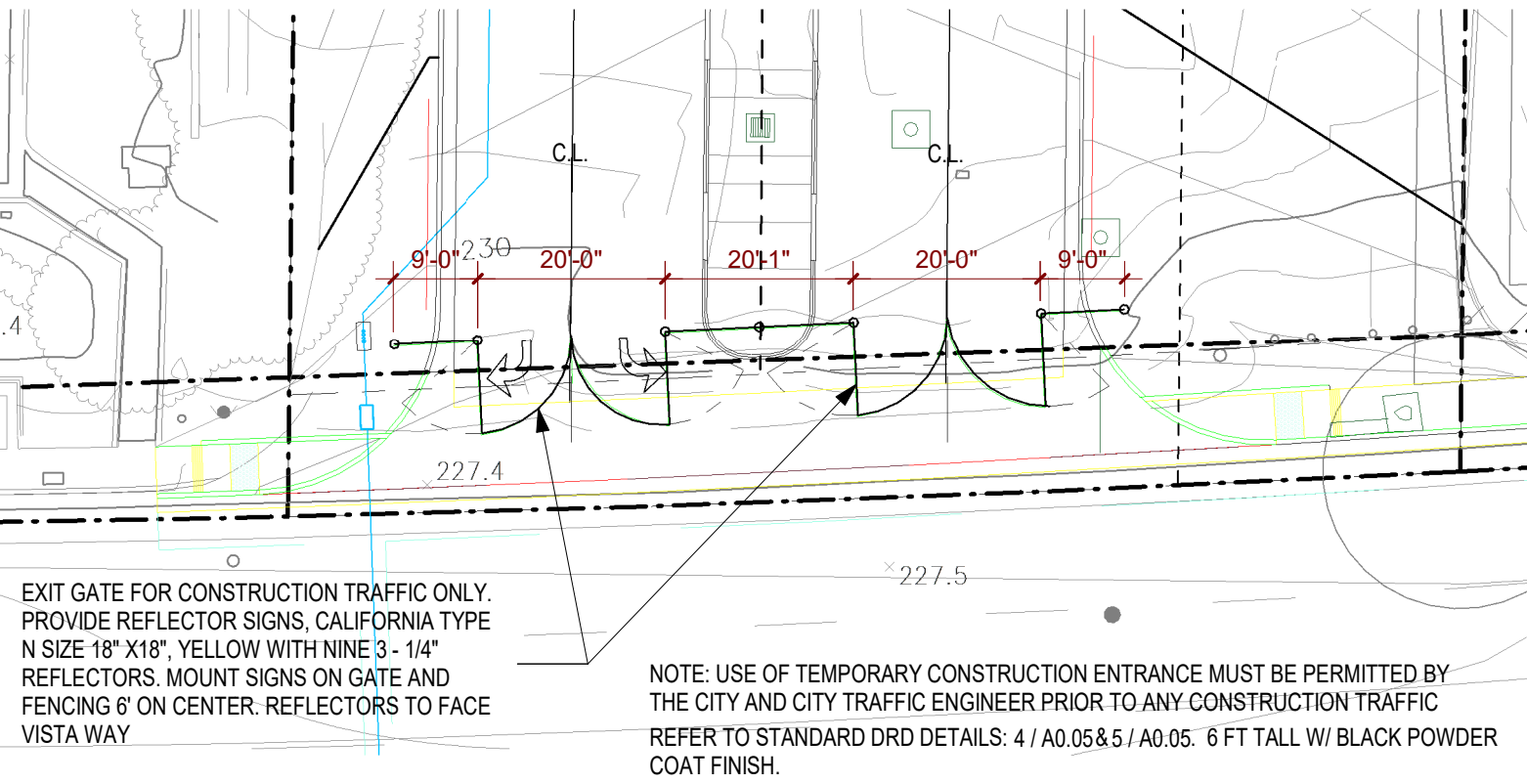
4 CHAINLINK FENCE SAN DIEGO REGIONAL STANDARD DETAIL M-05  
A0.05 NTS



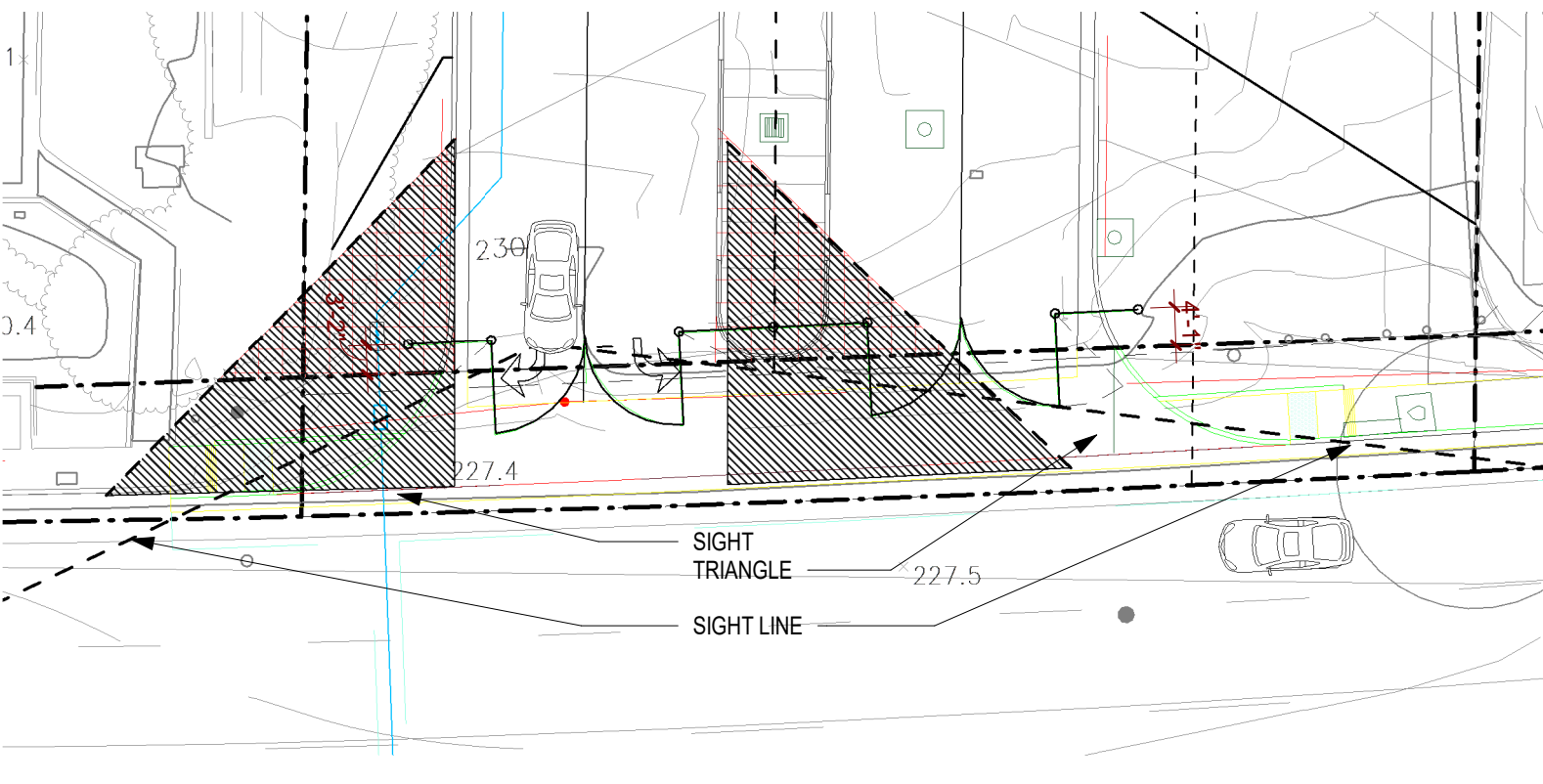
5 CHAINLINK FENCE SAN DIEGO REGIONAL STANDARD DETAIL M-06  
A0.05 NTS



6 TEMPORARY CONSTRUCTION NORTH GATE  
A0.05 1" = 20'-0"



3 TEMPORARY CONSTRUCTION SOUTH GATE  
A0.05 1" = 20'-0"



2 SIGHT LINES  
A0.05 1" = 20'-0"

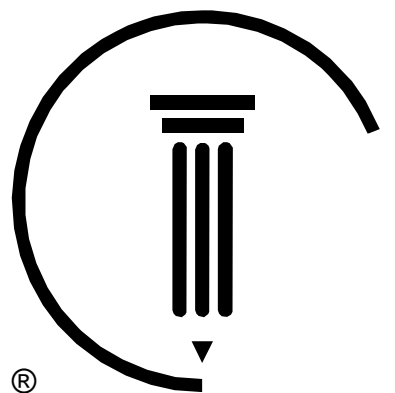
PLOT PLAN - PROPOSED PARKING STRUCTURE

1" = 80'-0"

## TRI-CITY MEDICAL CENTER PARKING REQUIREMNT AND PROPOSAL TABLE

LAND USE	SQUARE FOOTAGE	PARKING REQUIREMENT	AVAILABLE	PROPOSAL
HOSPITAL	400,000 380 BEDS	1.5 SPACES PER BED (1.5 X 380) = 570	700	700 (Existing)
MEDICAL OFFICE	59,940	1/250 SQ. FT. 59,940/250 = 238	368	368 (Existing)
OFFICE SPACE	21,535	1/300 SQ. FT. 21,535 / 300 = 72	203	203 (Existing)
SURFACE PARKING LOT (ADP17-00002)	NA	NA	Under Construction at the Time of the Submittal	209 (Under Construction )
2-STORY (3 TIER) PARKING STRUCTURE *	159,750 SF	NA	NA	495 PROPOSED
TOTALS	138,475	880	NA	2,056

2-STORY (3 TIER) PARKING STRUCTURE PARKING SPACE AND AREA SUMMARY									
S = 8'-6" X 18'-0"		S = 30'		BUILDING SIZE = 369'-6" X 18'-0"		NUMBER OF SPACES			
AREA	ON-GRADE SLAB (SF)	ELEVATED SLAB (SF)	VAN	ACCESSIBLE	STANDARD	TOTAL	SF / SPACE		
1A	19,970		2	2	48	52	384.04		
1B	19,270		3	3	56	60	344.11		
1C	19,410				60	60	323.50		
2A		19,595		1	61	62	316.05		
2B		19,190			62	62	309.52		
2C		19,270			65	65	296.46		
3A		19,490		1	62	63	309.37		
3B		19,190			65	65	295.23		
3C		4,365			10	10	436.50		
Totals =	58,650	101,100	2	7	486	495			
Gross Floor Area (SF) =		58,650							
Total Spaces =		159,750							
Design Efficiency =		159,750	+	495	=				
							322.73		



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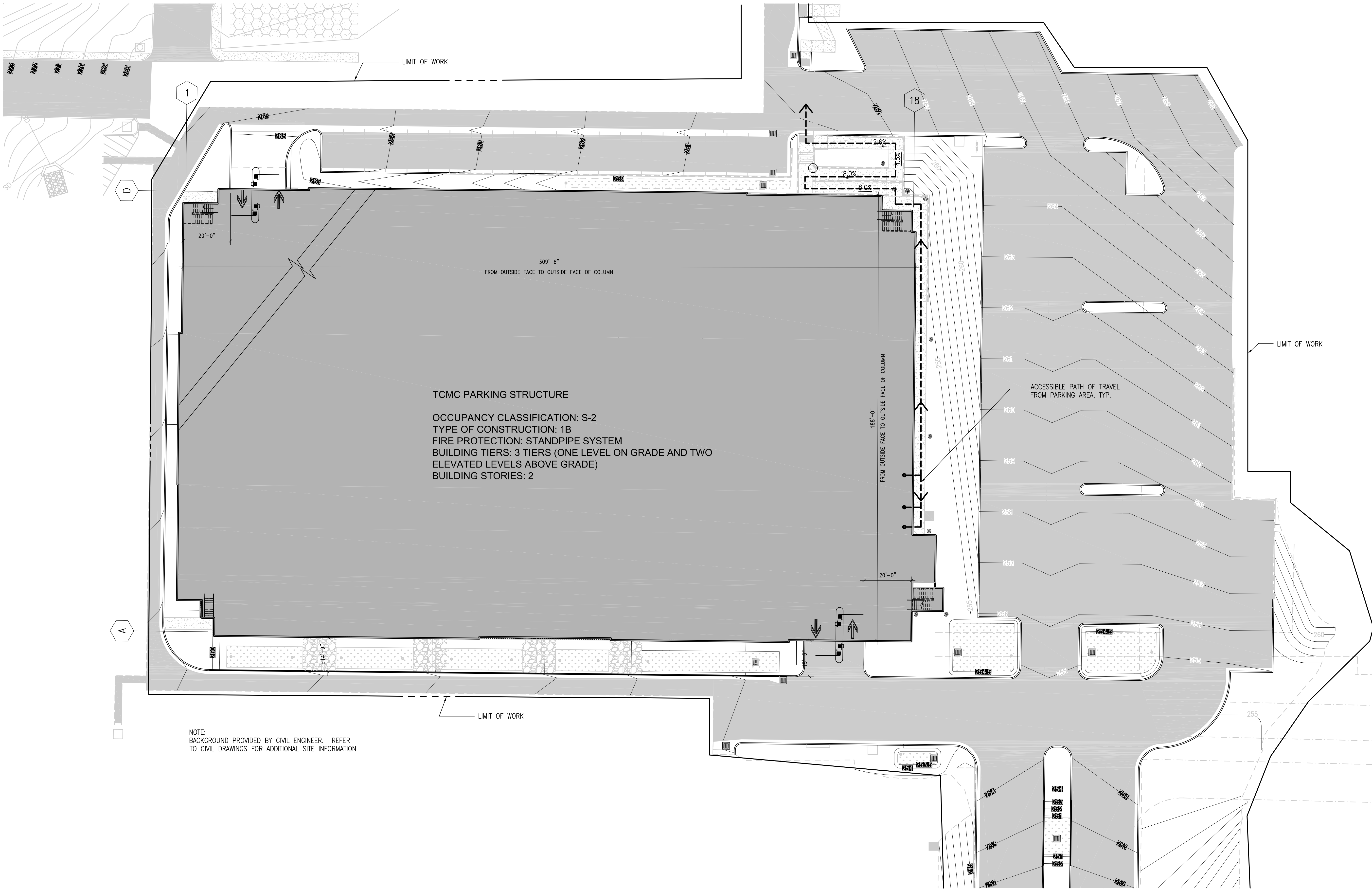
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PLOT PLAN -  
PROPOSED PARKING  
STRUCTURE

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A0.05

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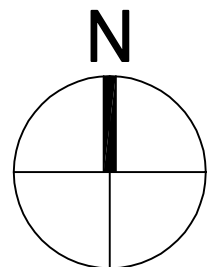


NOTE:  
BACKGROUND PROVIDED BY CIVIL ENGINEER. REFER  
TO CIVIL DRAWINGS FOR ADDITIONAL SITE INFORMATION

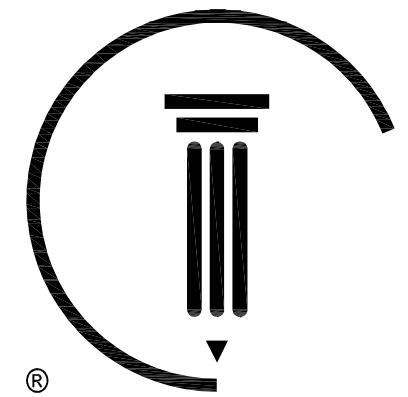
TCMC PARKING STRUCTURE  
OCCUPANCY CLASSIFICATION: S-2  
TYPE OF CONSTRUCTION: 1B  
FIRE PROTECTION: STANDPIPE SYSTEM  
BUILDING TIERS: 3 TIERS (ONE LEVEL ON GRADE AND TWO  
ELEVATED LEVELS ABOVE GRADE)  
BUILDING STORIES: 2

SITE PLAN

SCALE: 1"= 20'-0"



1



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Sheet Title  
SITE PLAN

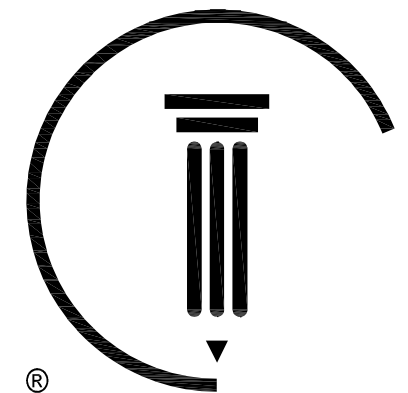
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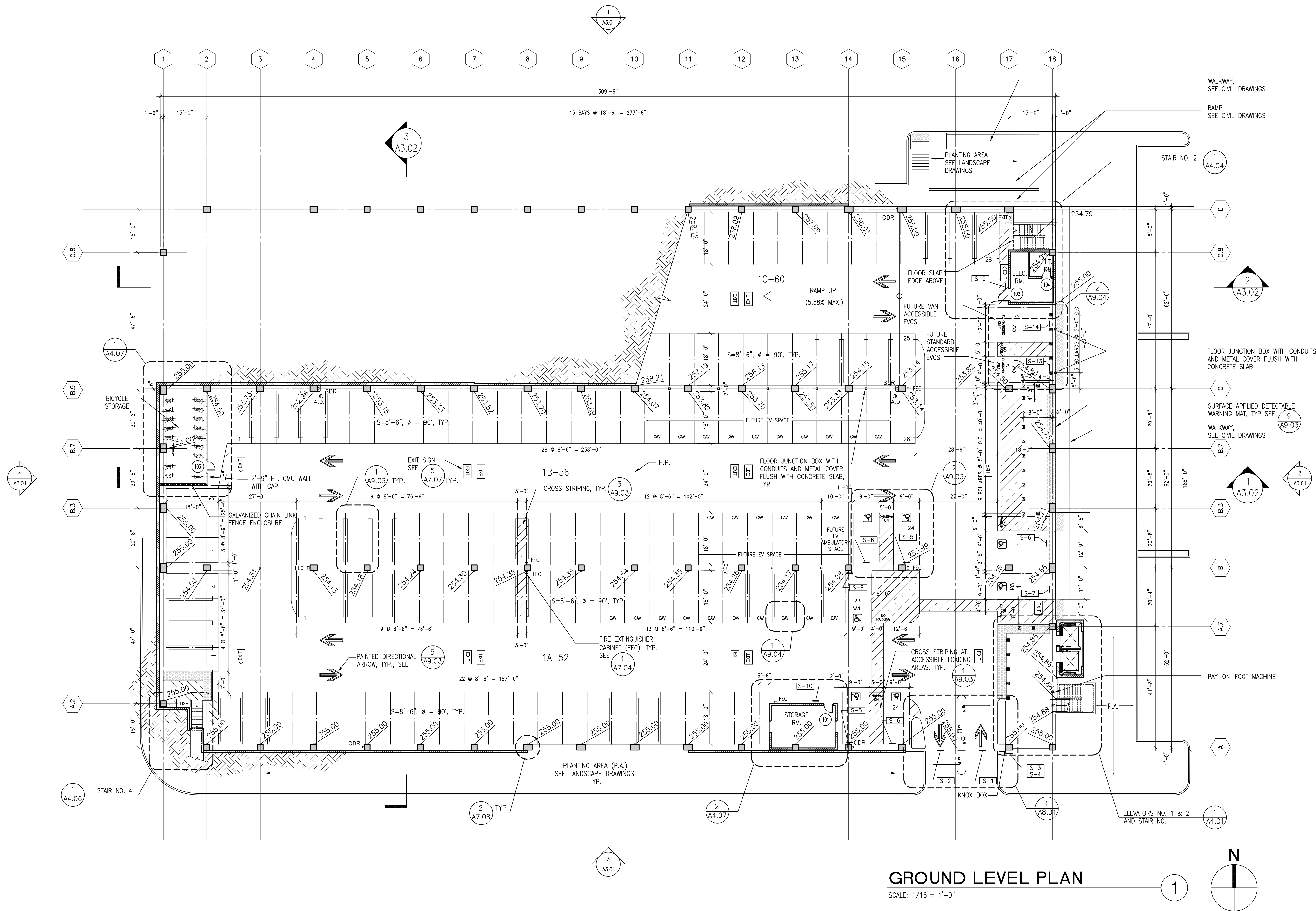
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GROUND LEVEL PLAN

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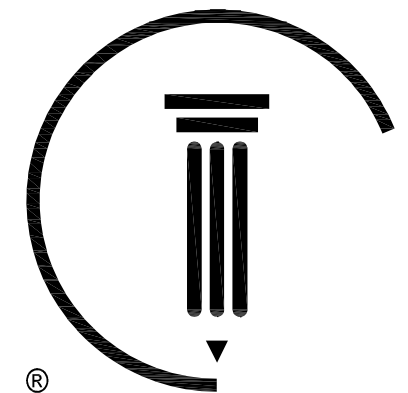


GROUND LEVEL PLAN

SCALE: 1/16" = 1'-0"

1





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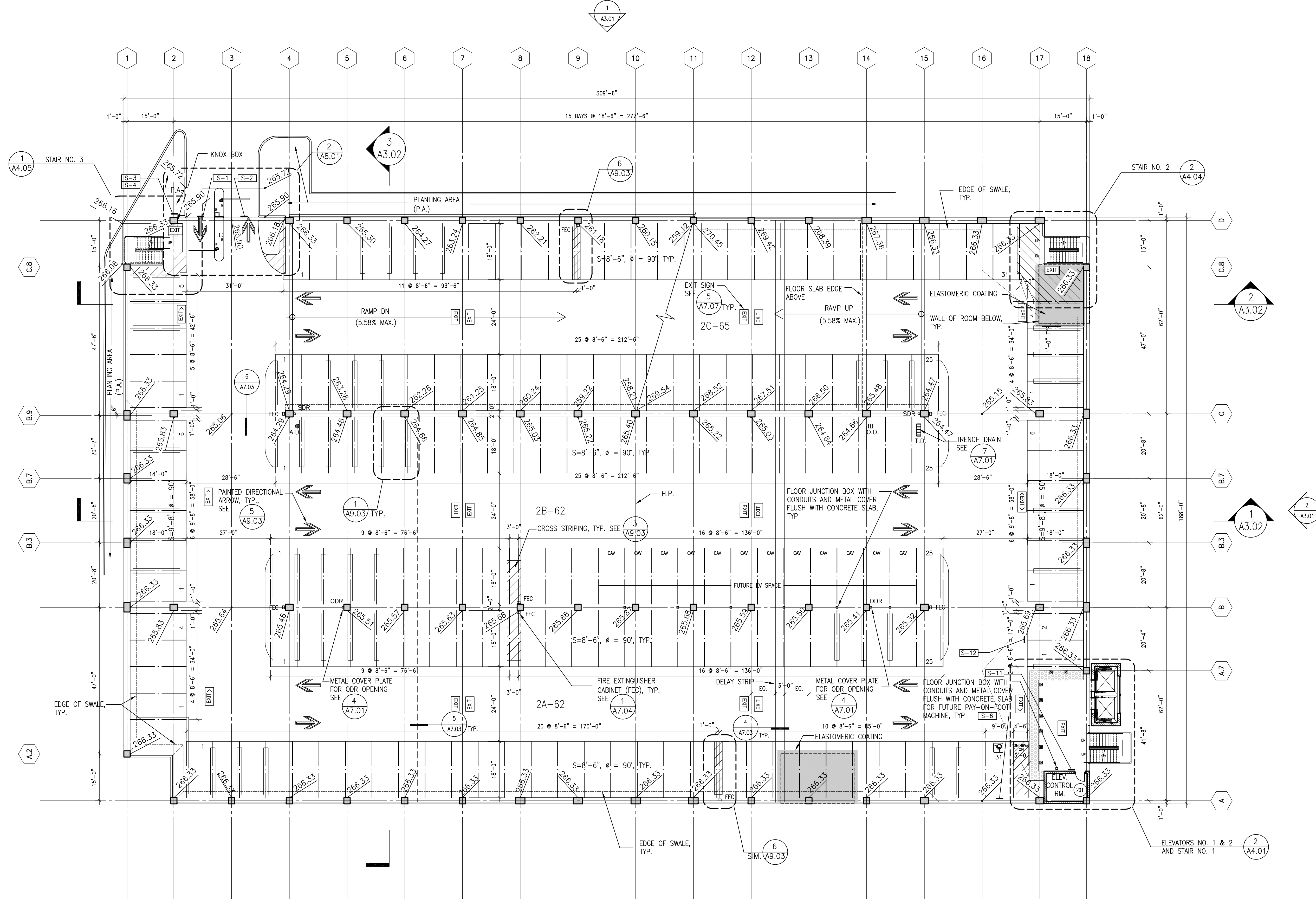
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Sheet Title  
SECOND LEVEL PLAN

Sheet Number

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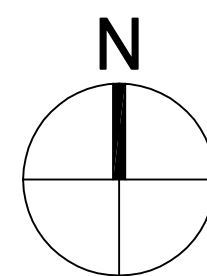
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SECOND LEVEL PLAN

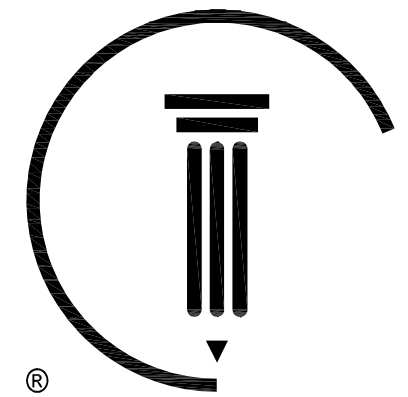
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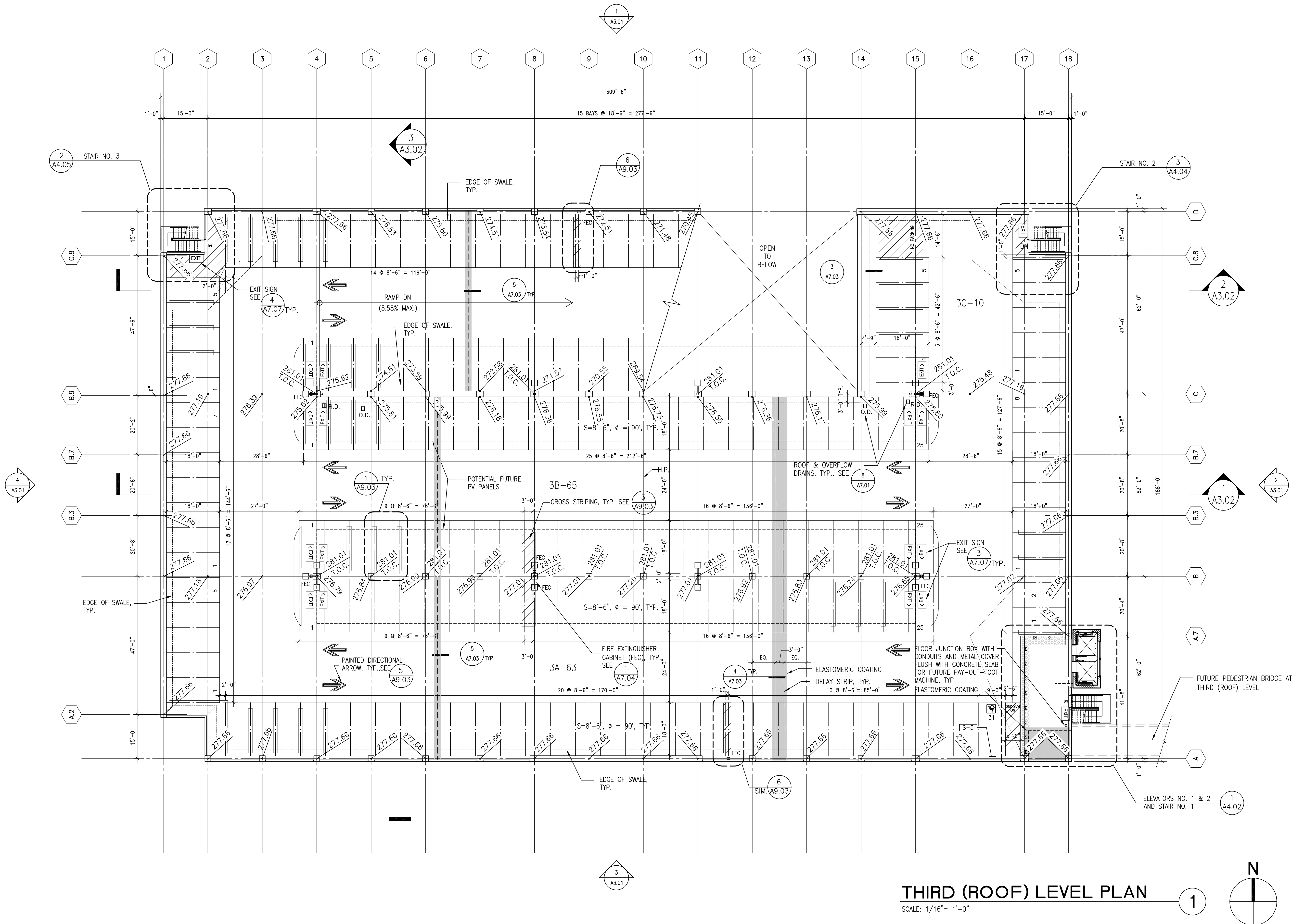
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STRUCTURE AND  
MAIN ENTRY

Sheet Title  
THIRD (ROOF) LEVEL  
PLAN

Sheet Number

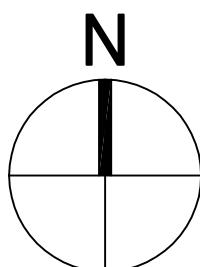
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THIRD (ROOF) LEVEL PLAN

SCALE: 1/16" = 1'-0"



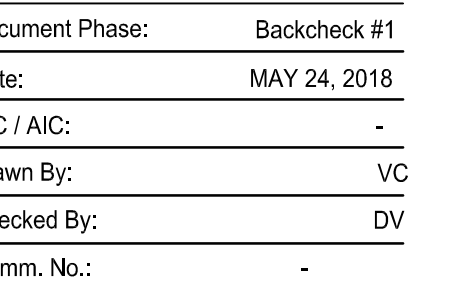
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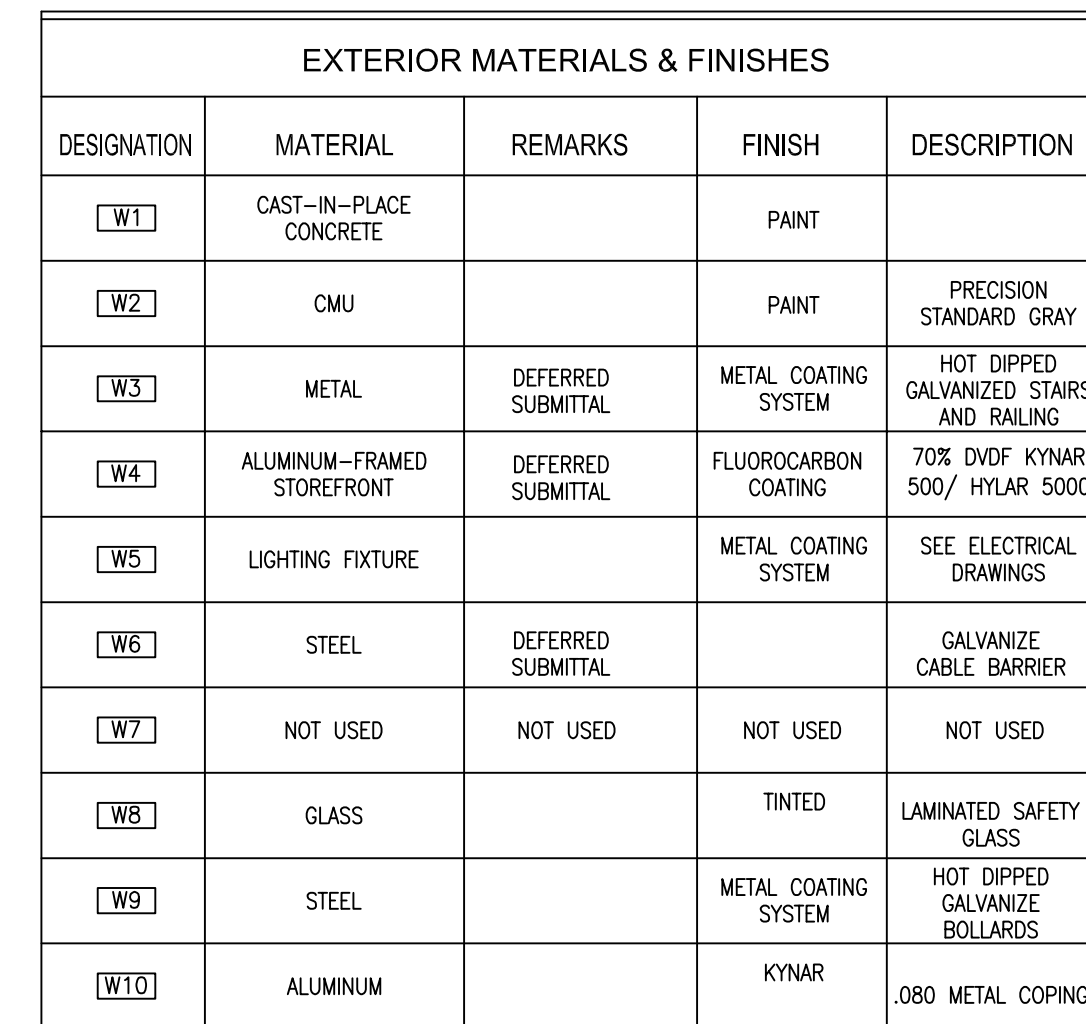
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# BUILDING ELEVATIONS

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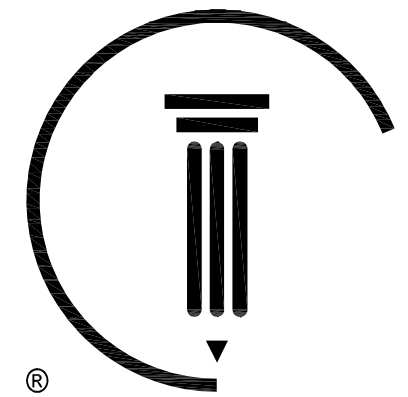
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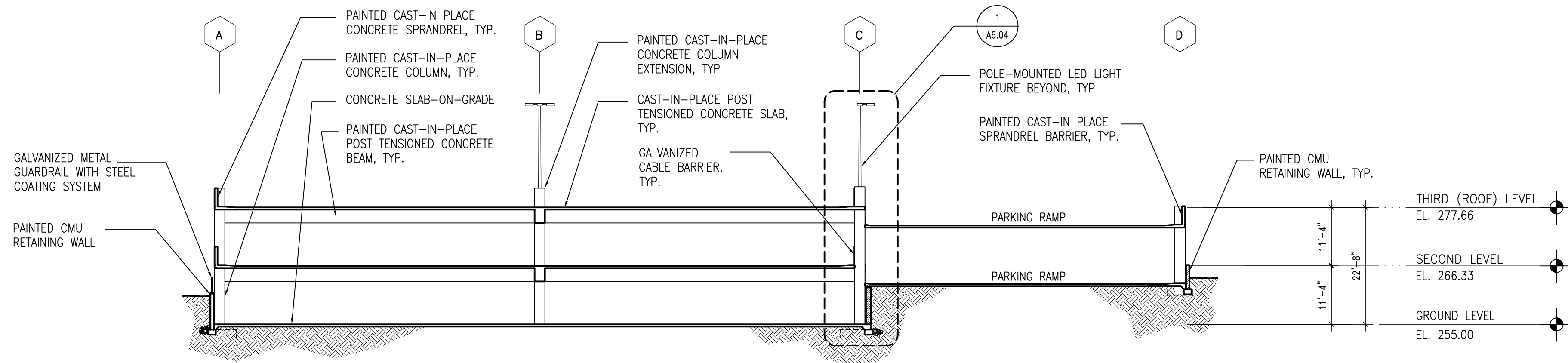
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**BUILDING  
SECTIONS**

Sheet Number

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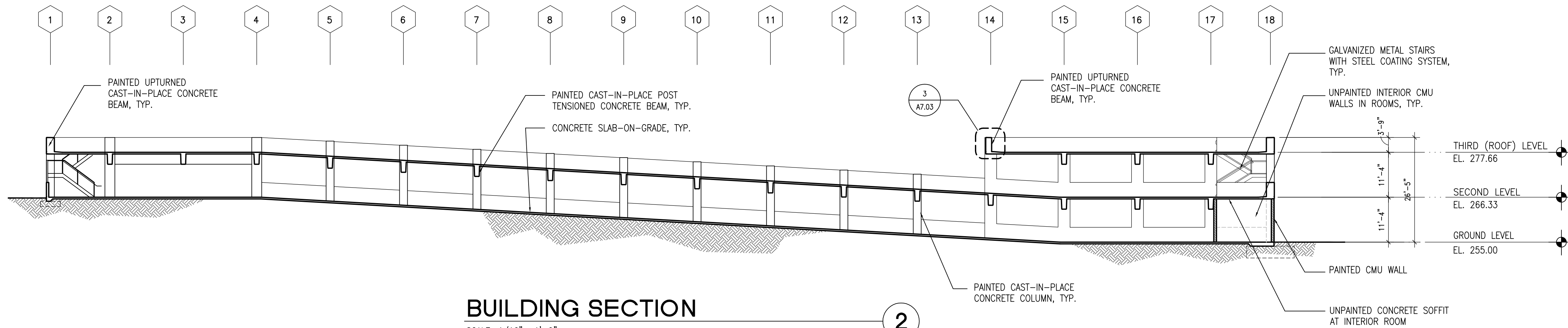
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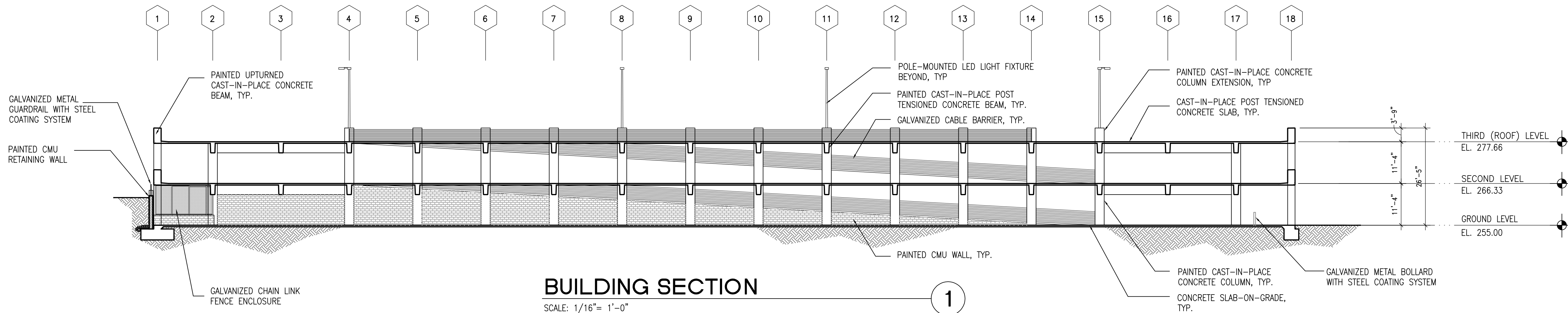
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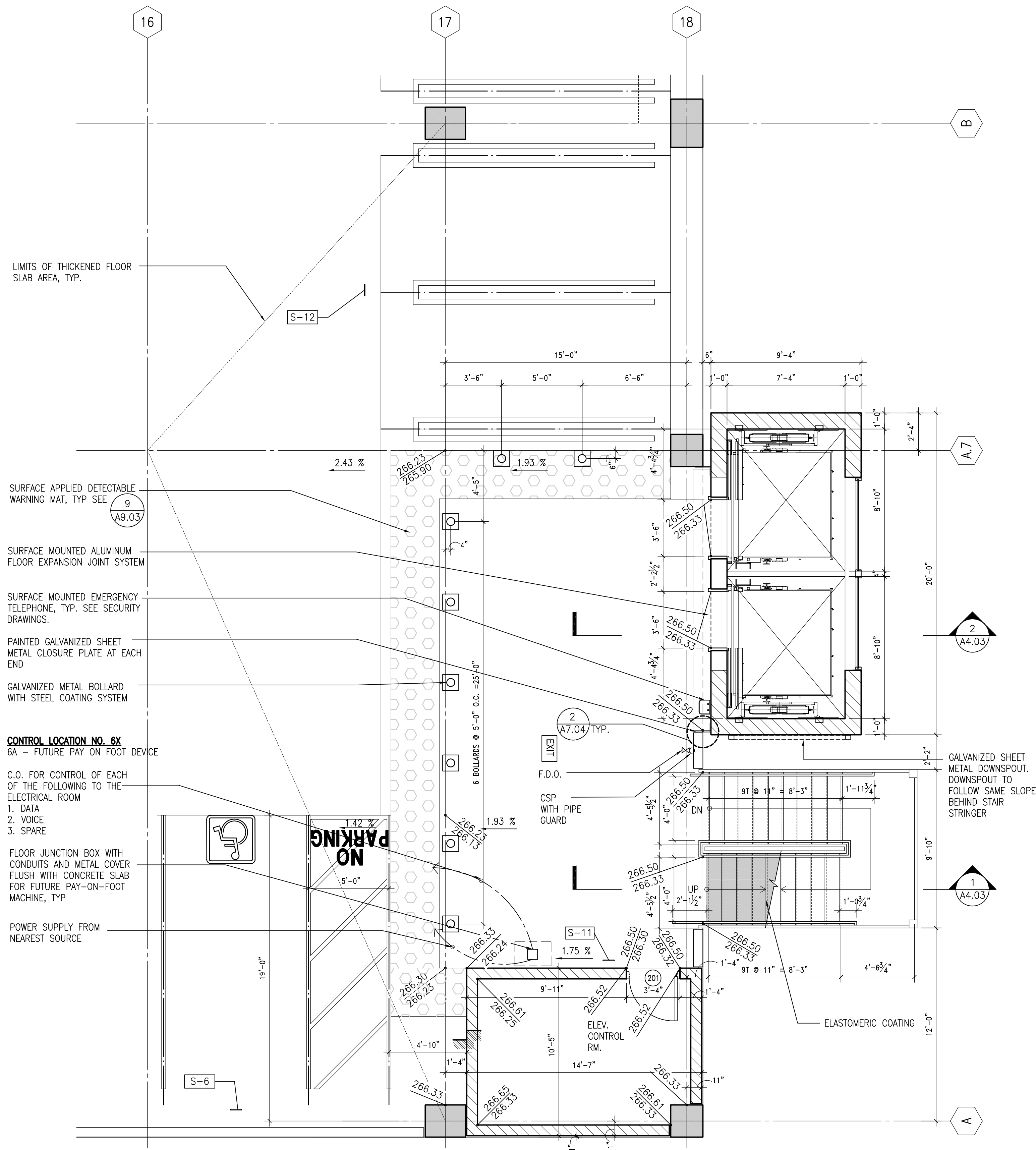


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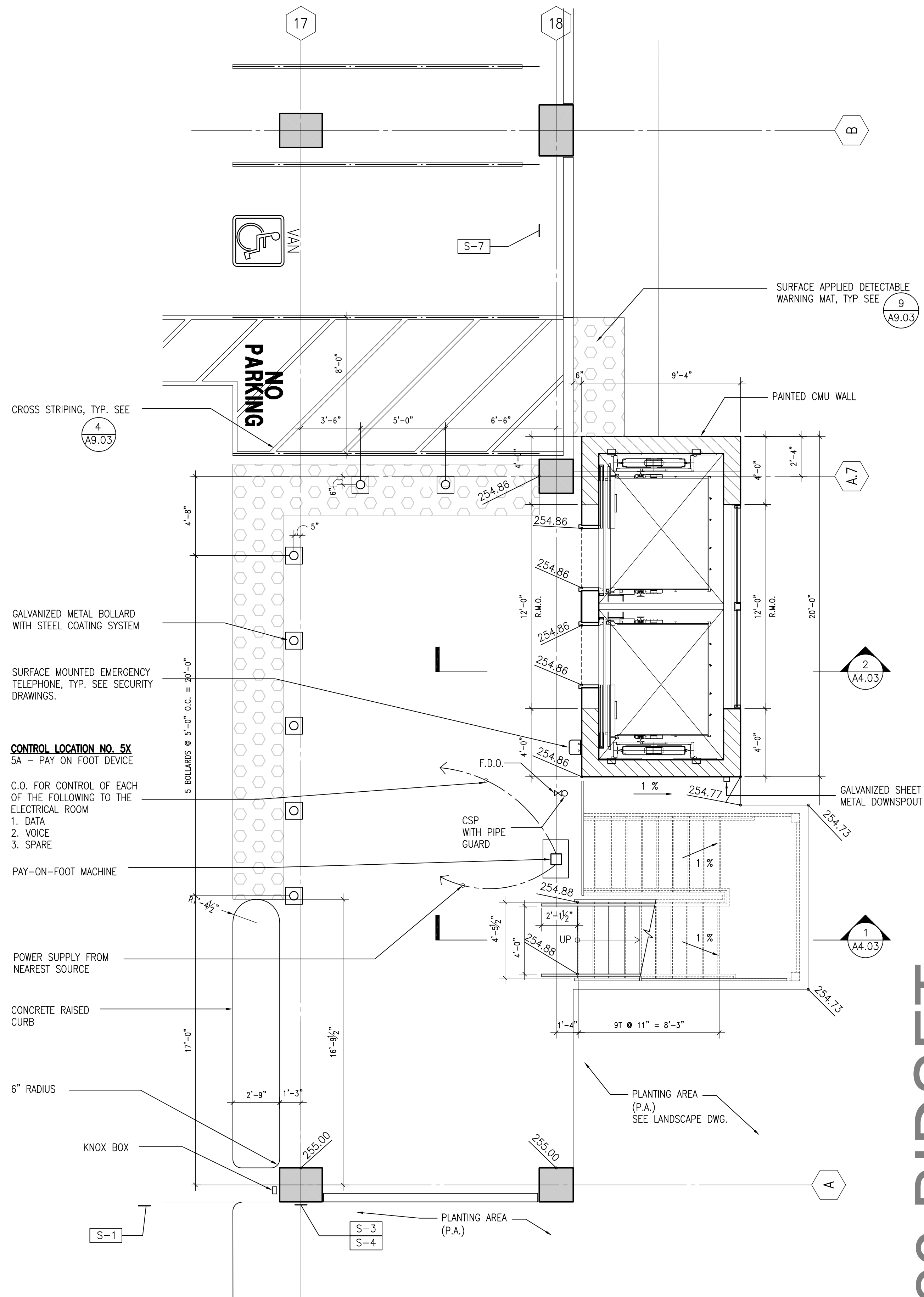
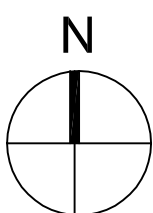




**ELEVATOR NO.1 & 2 AND STAIR  
NO. 1 SECOND LEVEL**

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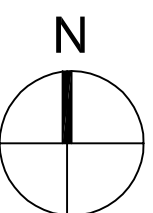
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**ELEVATOR NO.1 & 2 AND STAIR  
NO. 1 GROUND LEVEL**

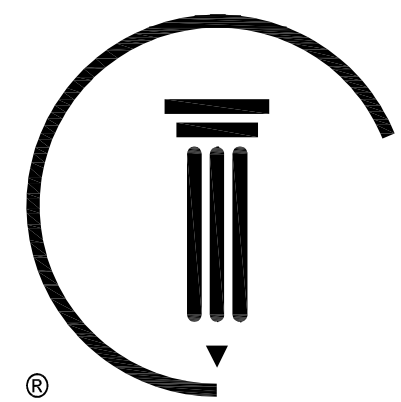
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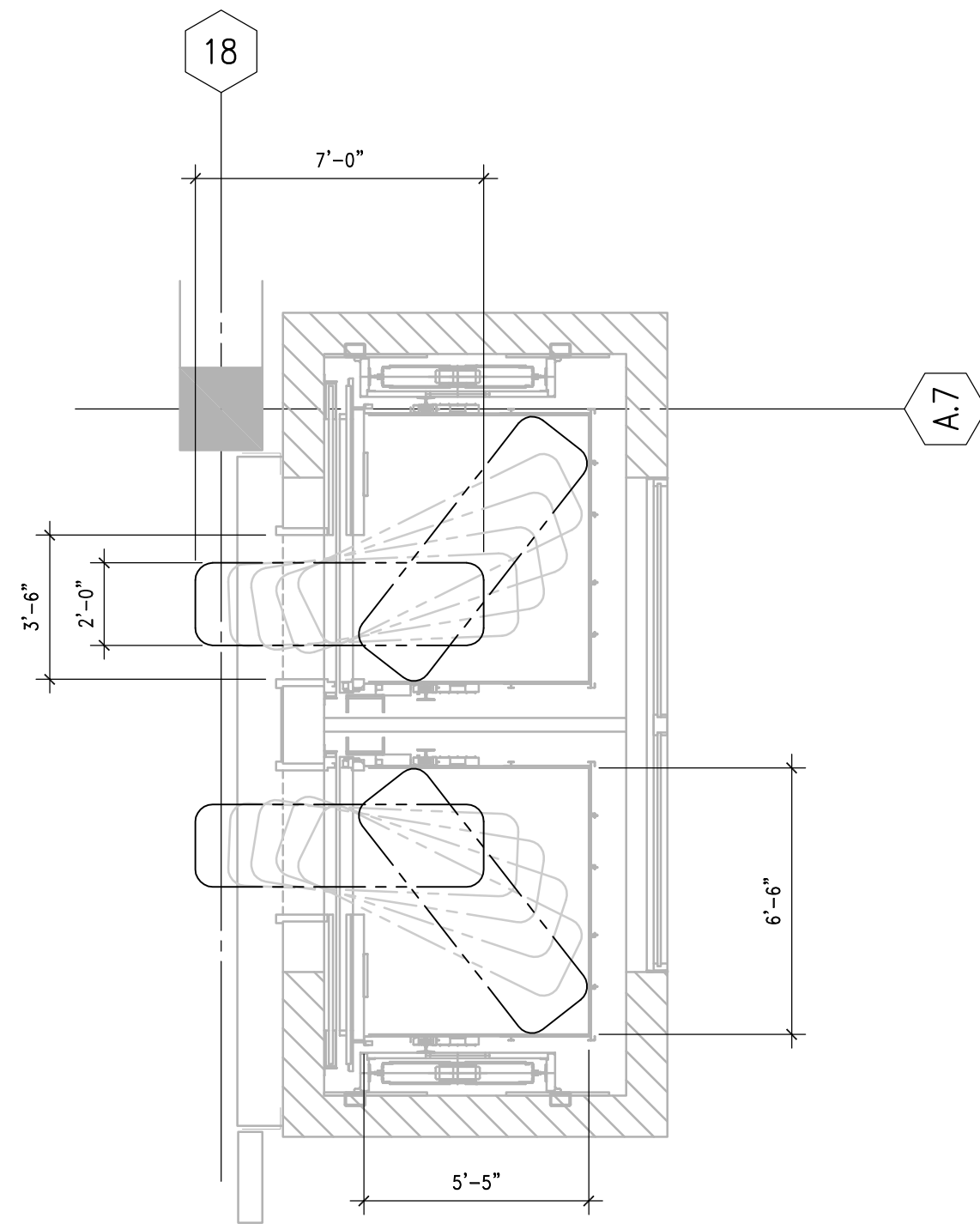
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Sheet Title  
**ELEVATORS NO. 1 & 2  
AND STAIR NO. 1  
PLANS AND  
ELEVATION**

Sheet Number

**A4.02**

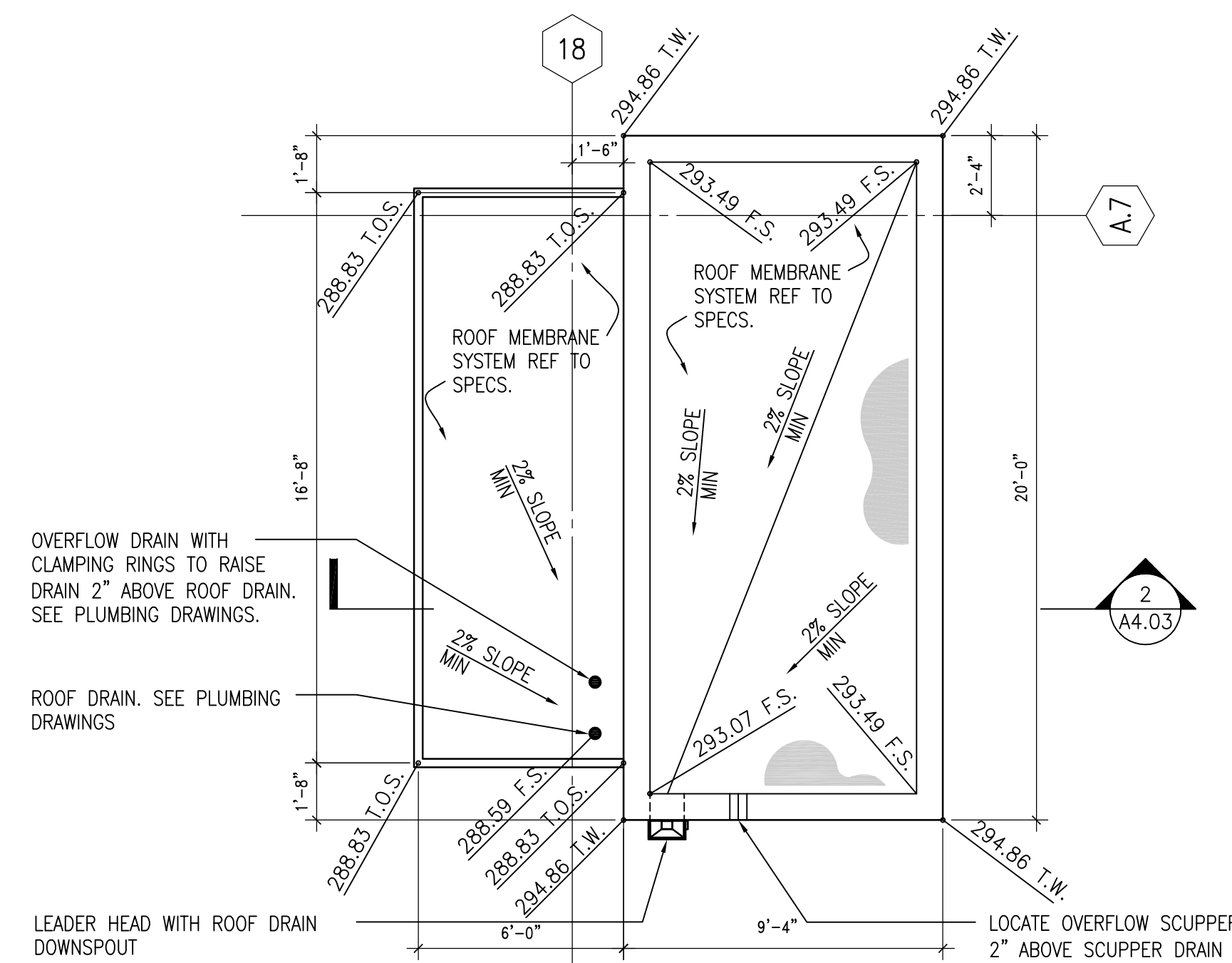
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### GURNEY LAYOUT AT ELEVATOR CAB

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

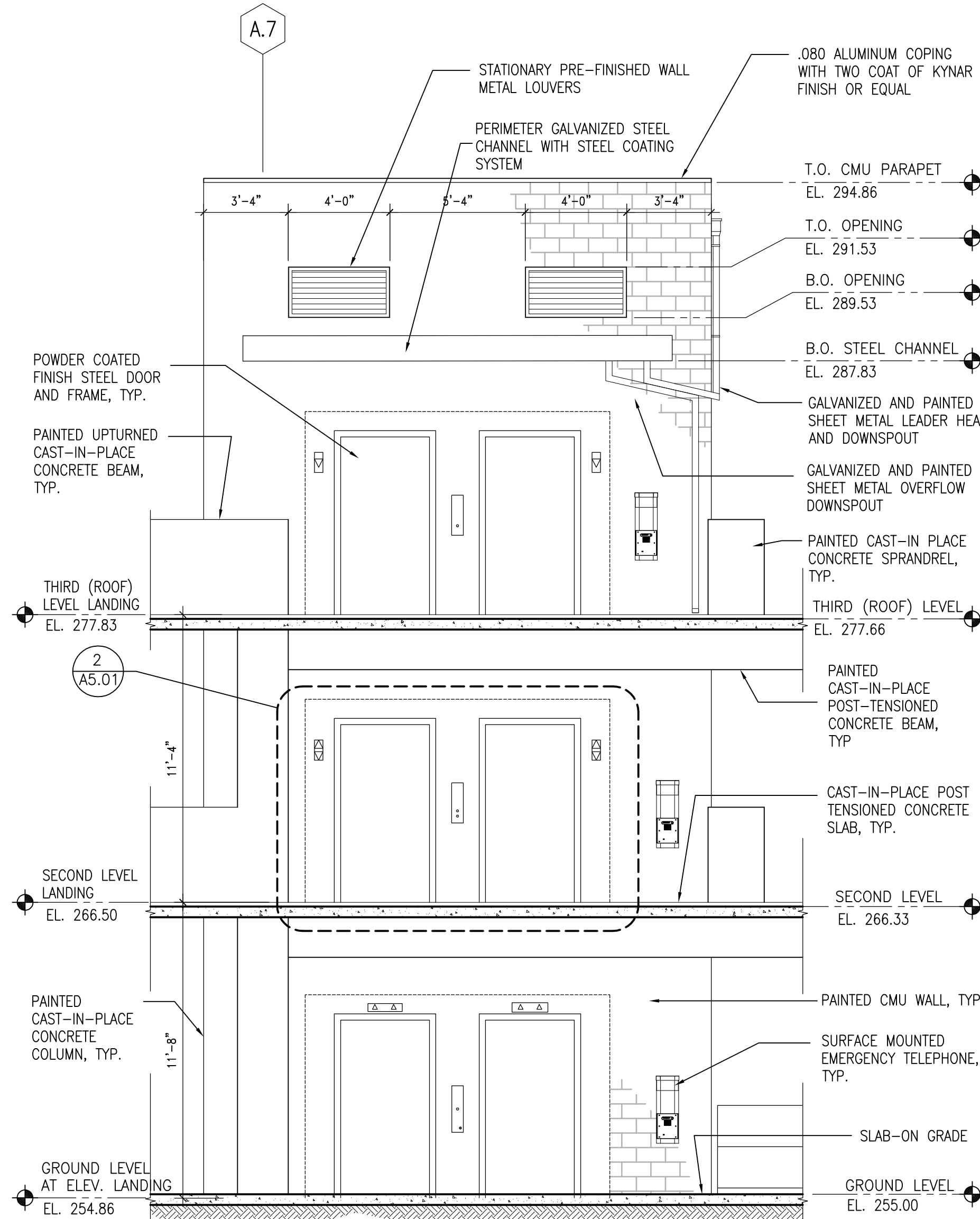
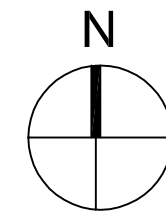
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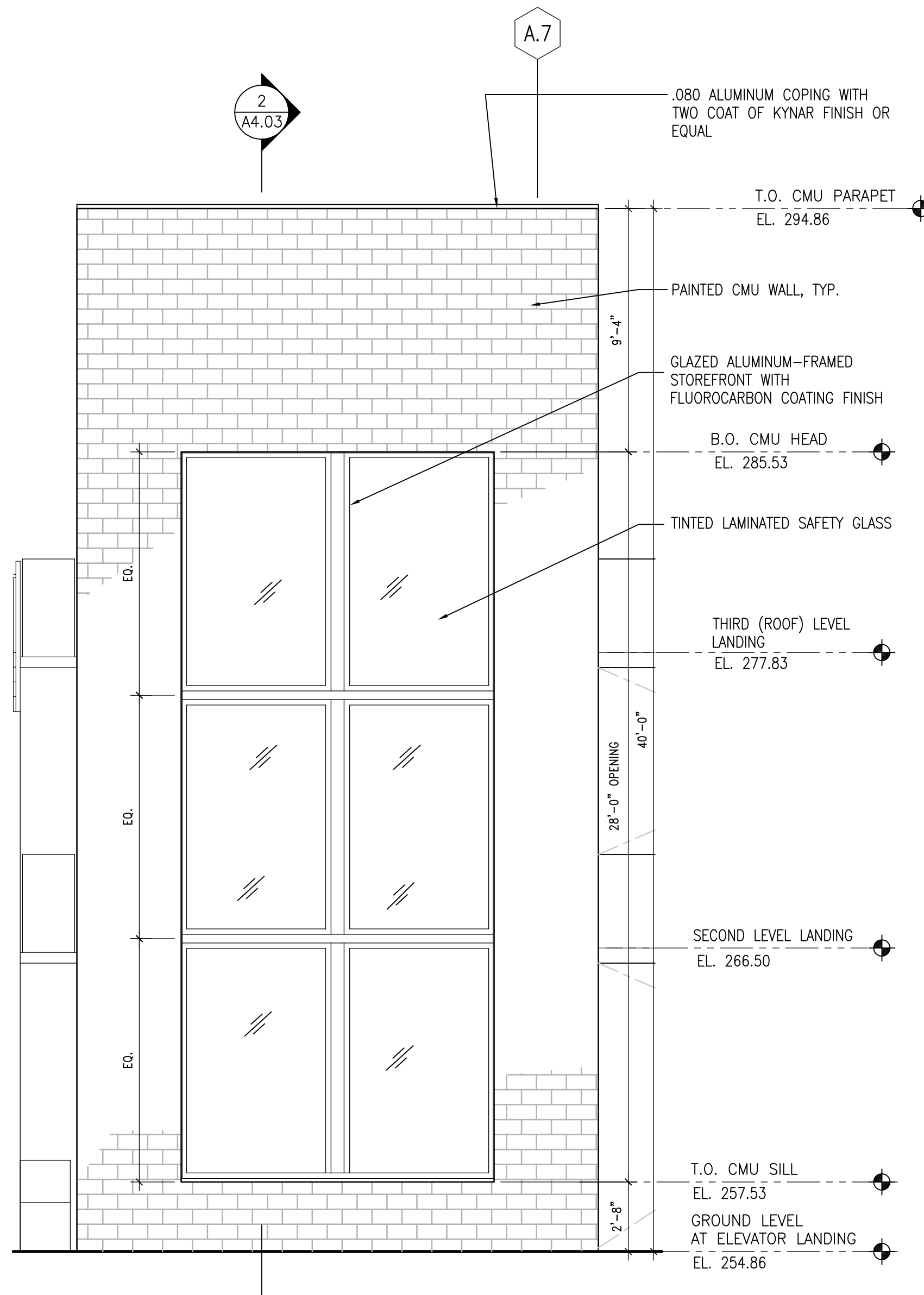
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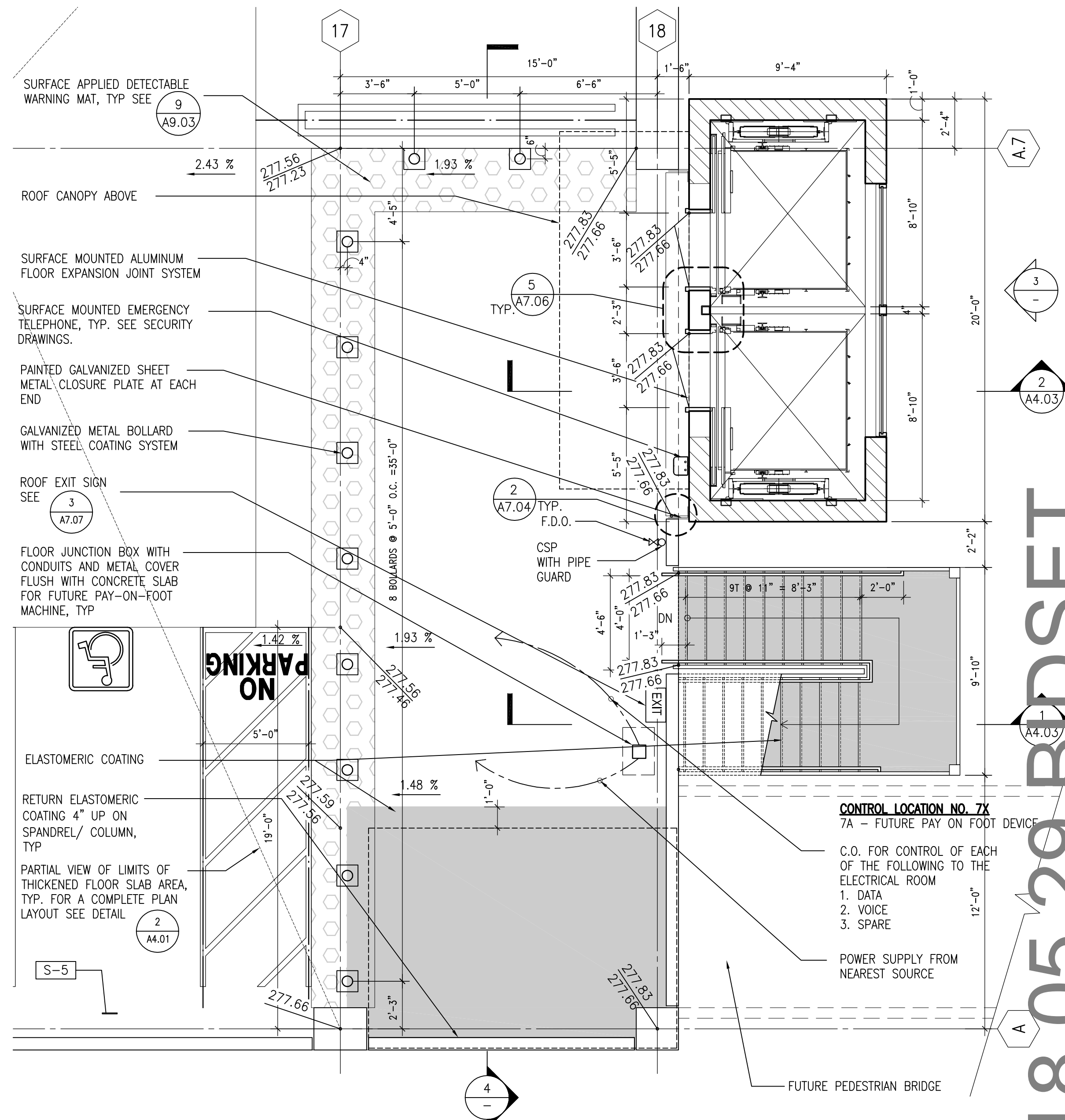
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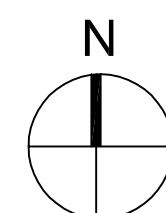
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### ELEVATOR NO. 1 & 2 AND STAIR NO. 1 THIRD (ROOF) LEVEL

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

1



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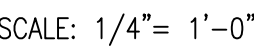
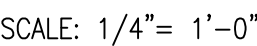
**Divisions**



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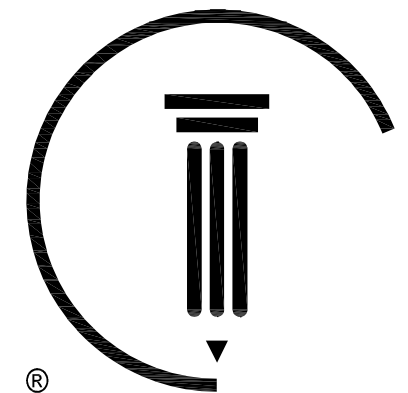
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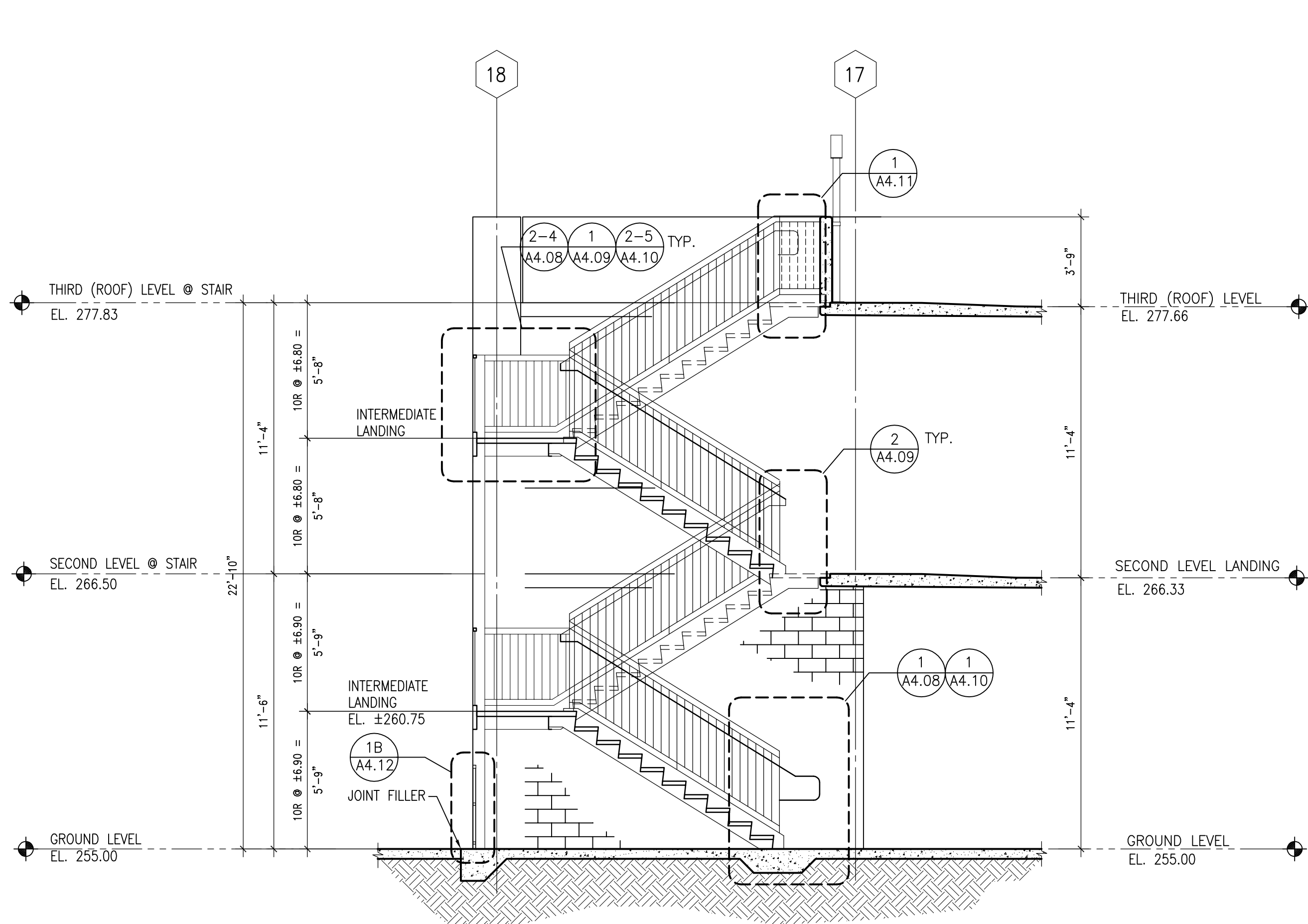
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STAIR NO. 2 PLANS  
AND SECTION

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A4.04

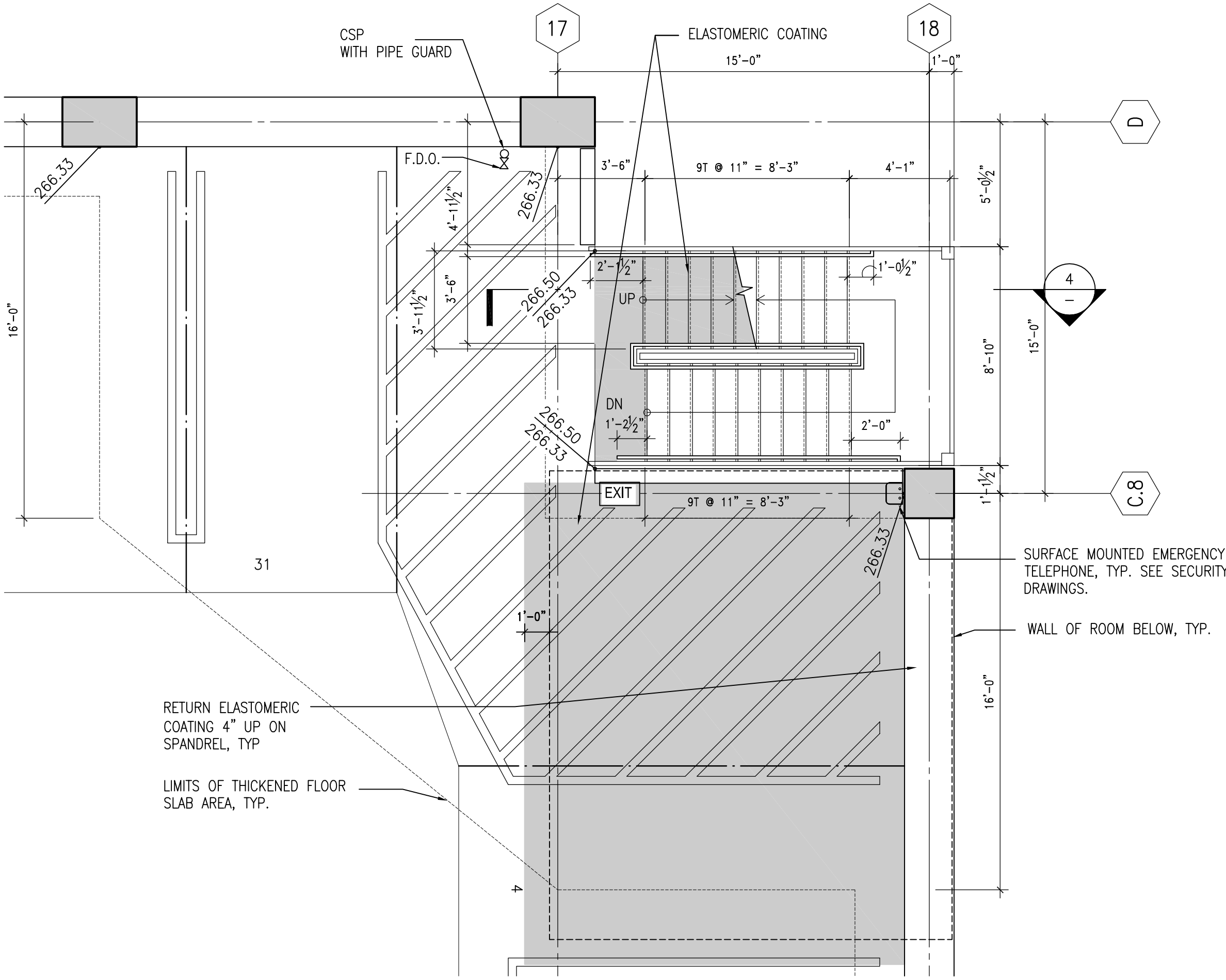
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STAIR NO.2 SECTION

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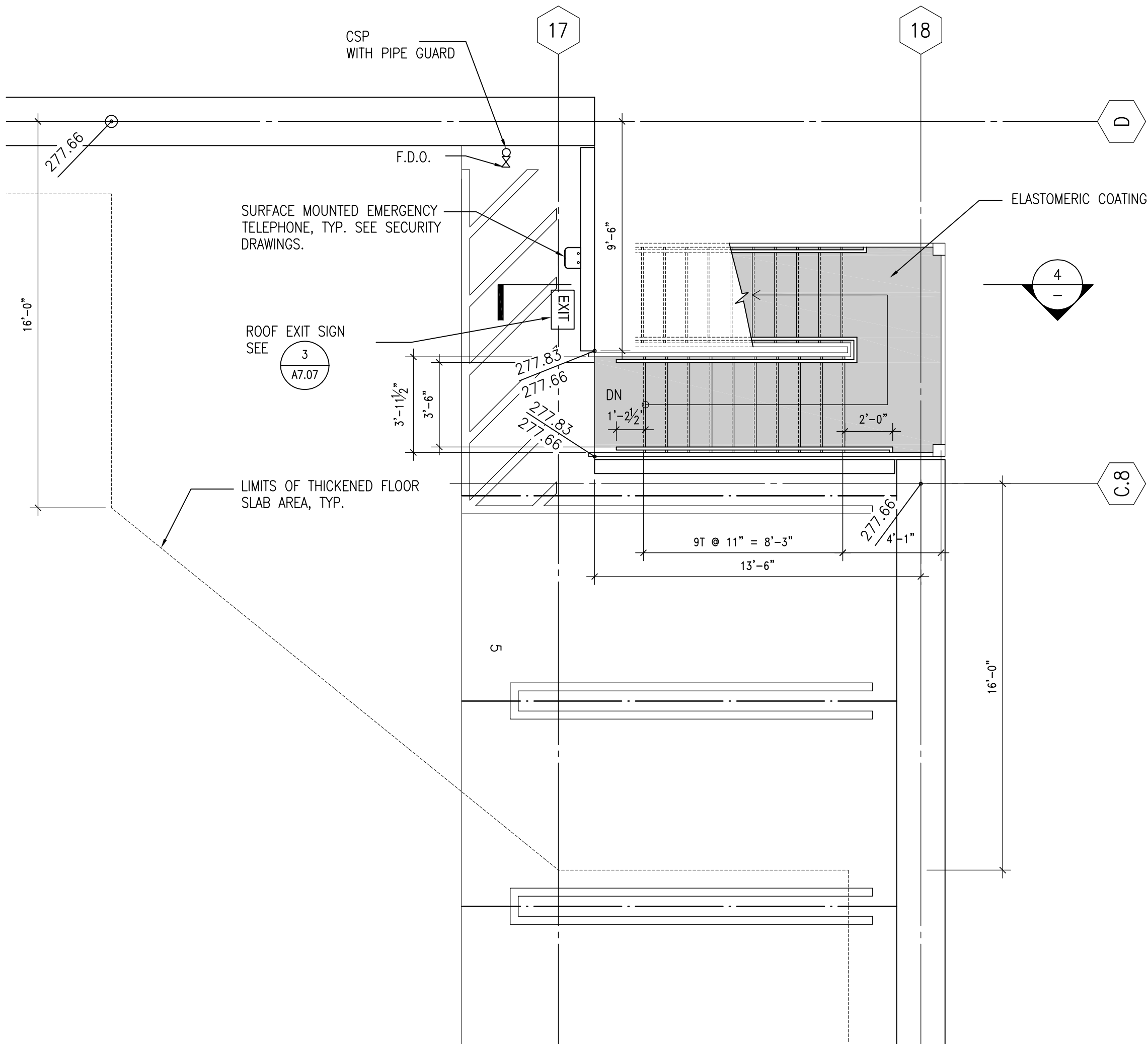
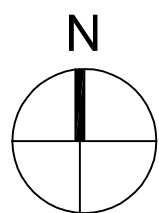
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STAIR NO.2 SECOND LEVEL

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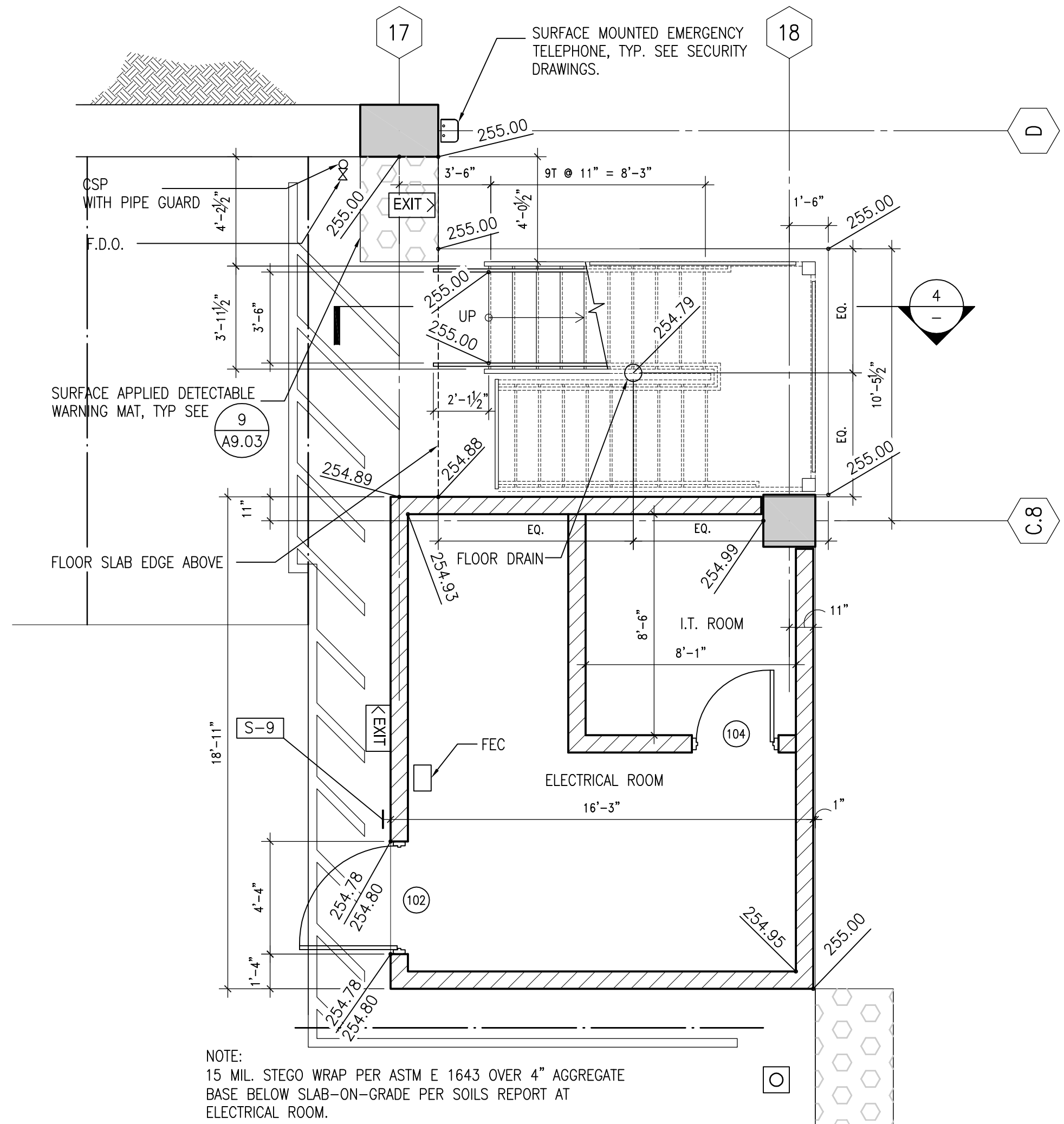
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STAIR NO.2 THIRD (ROOF) LEVEL

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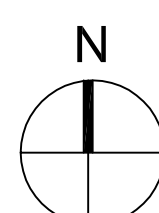
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STAIR NO.2 GROUND LEVEL

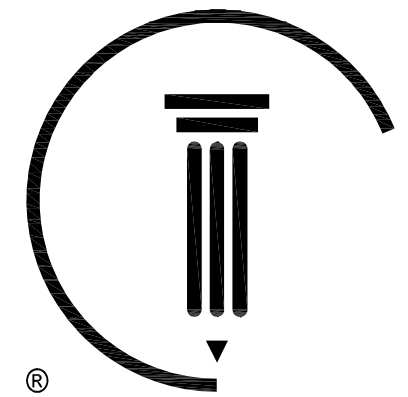
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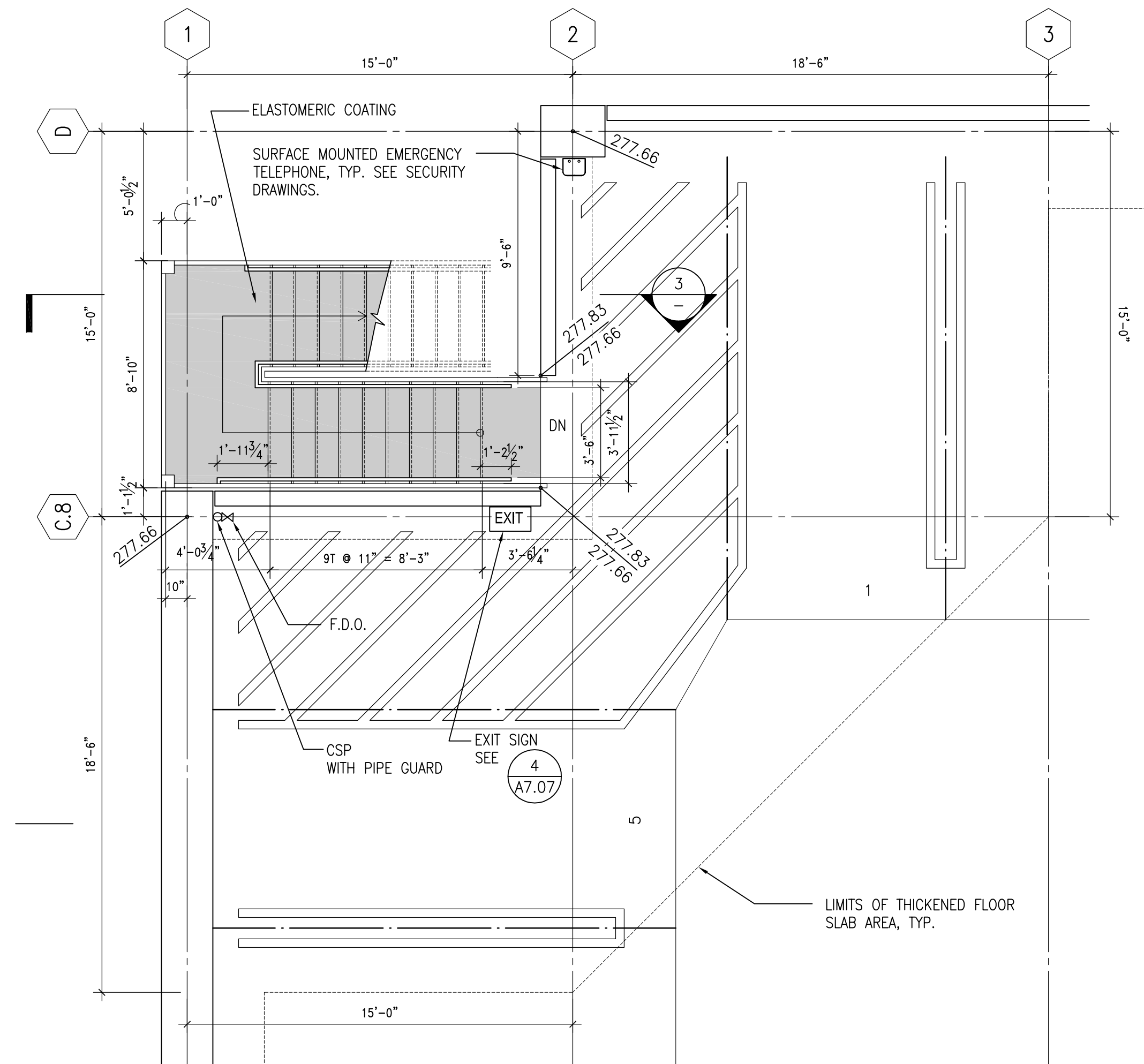
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STRUCTURE AND  
MAIN ENTRY

Sheet Title  
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AND SECTION

Sheet Number

A4.05

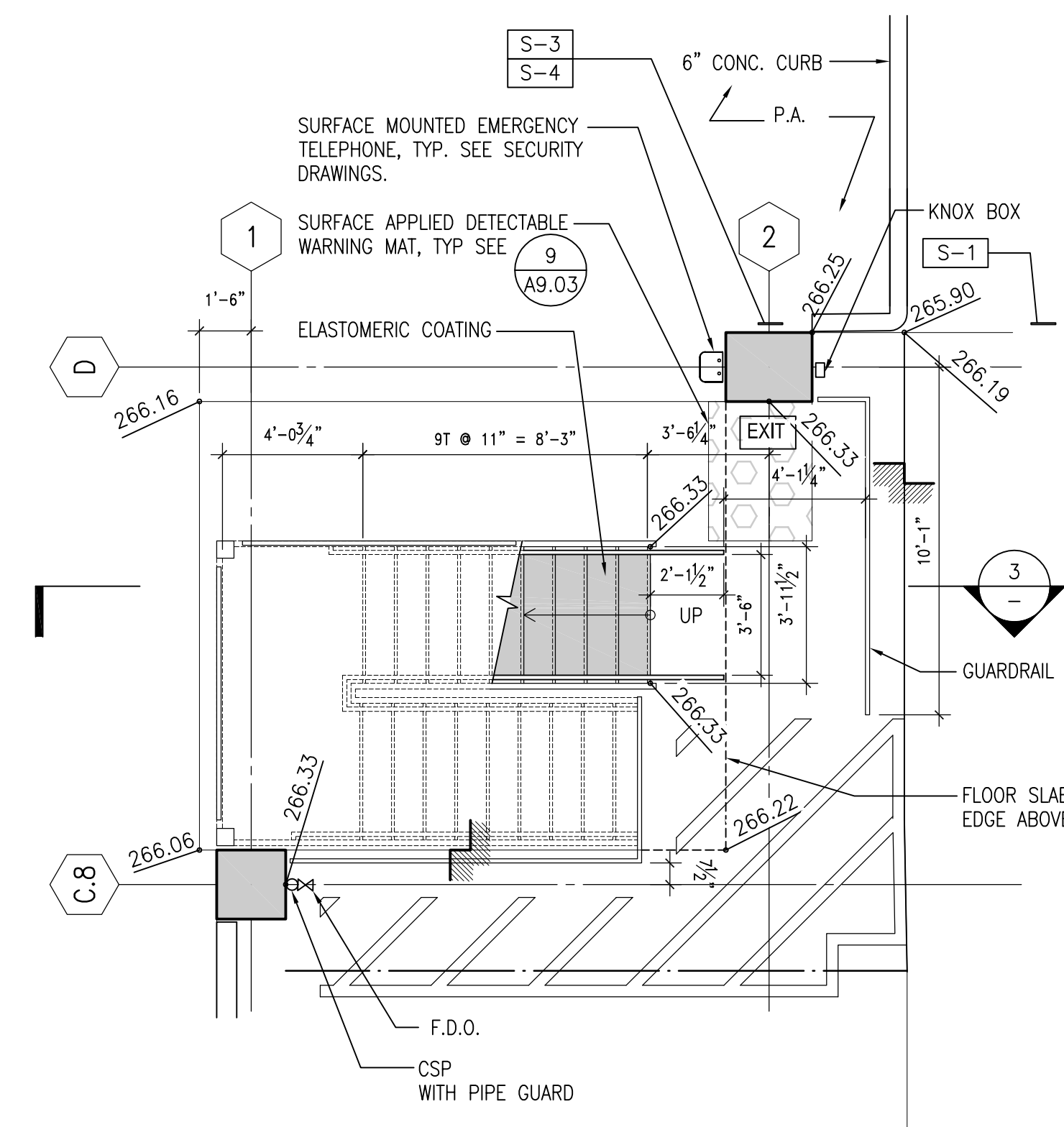
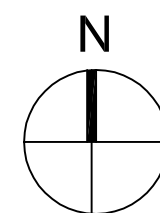
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### STAIR NO. 3 THIRD LEVEL

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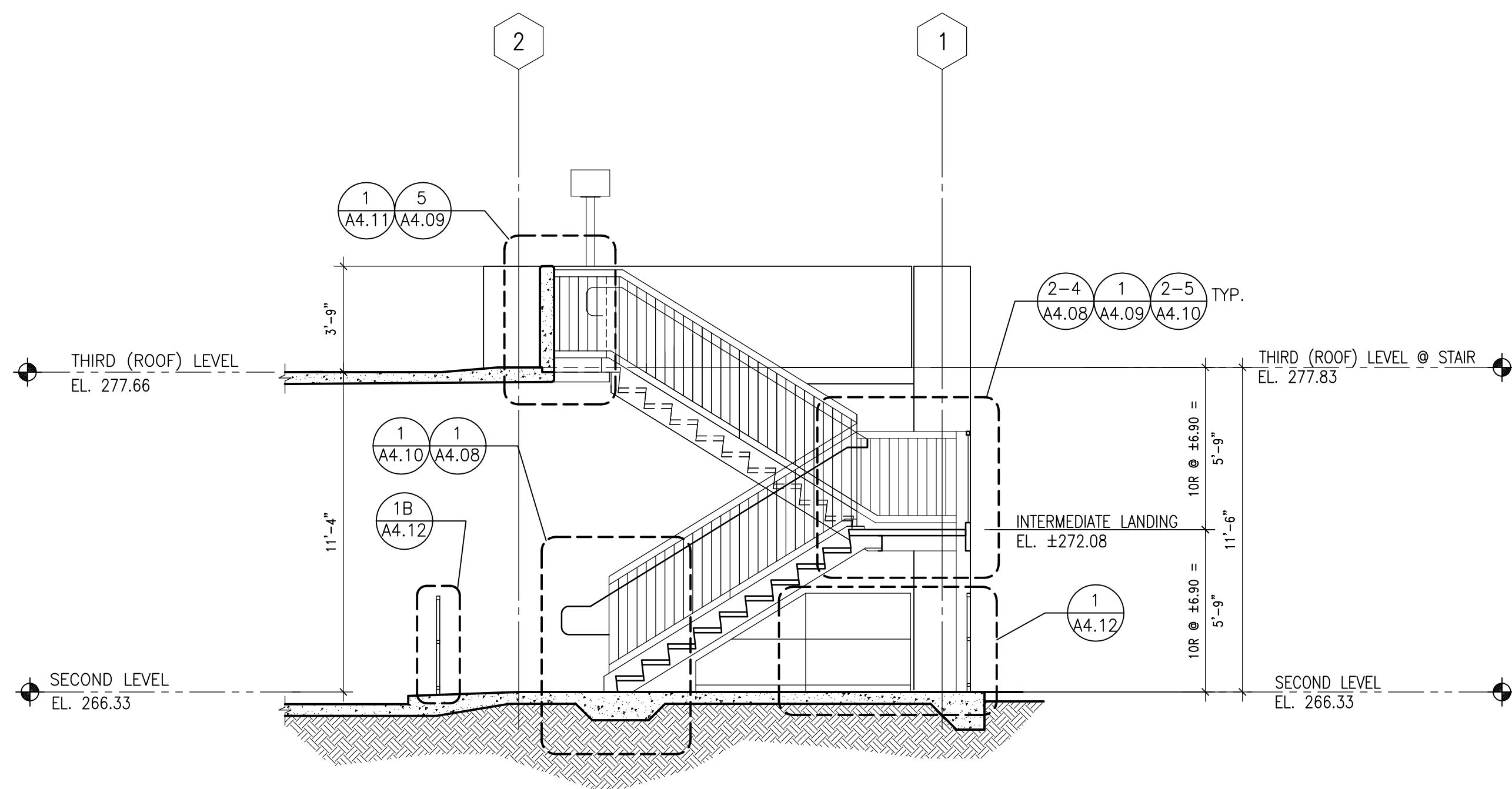
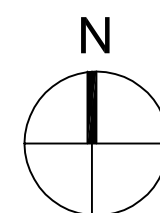
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SCALE: 1/4" = 1'-0"

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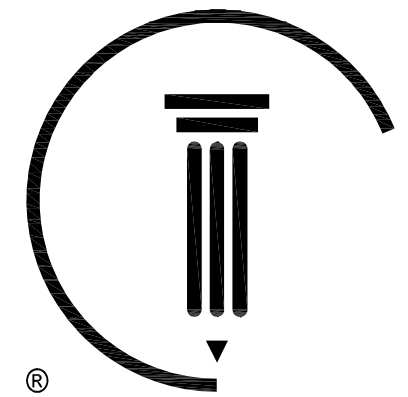
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3

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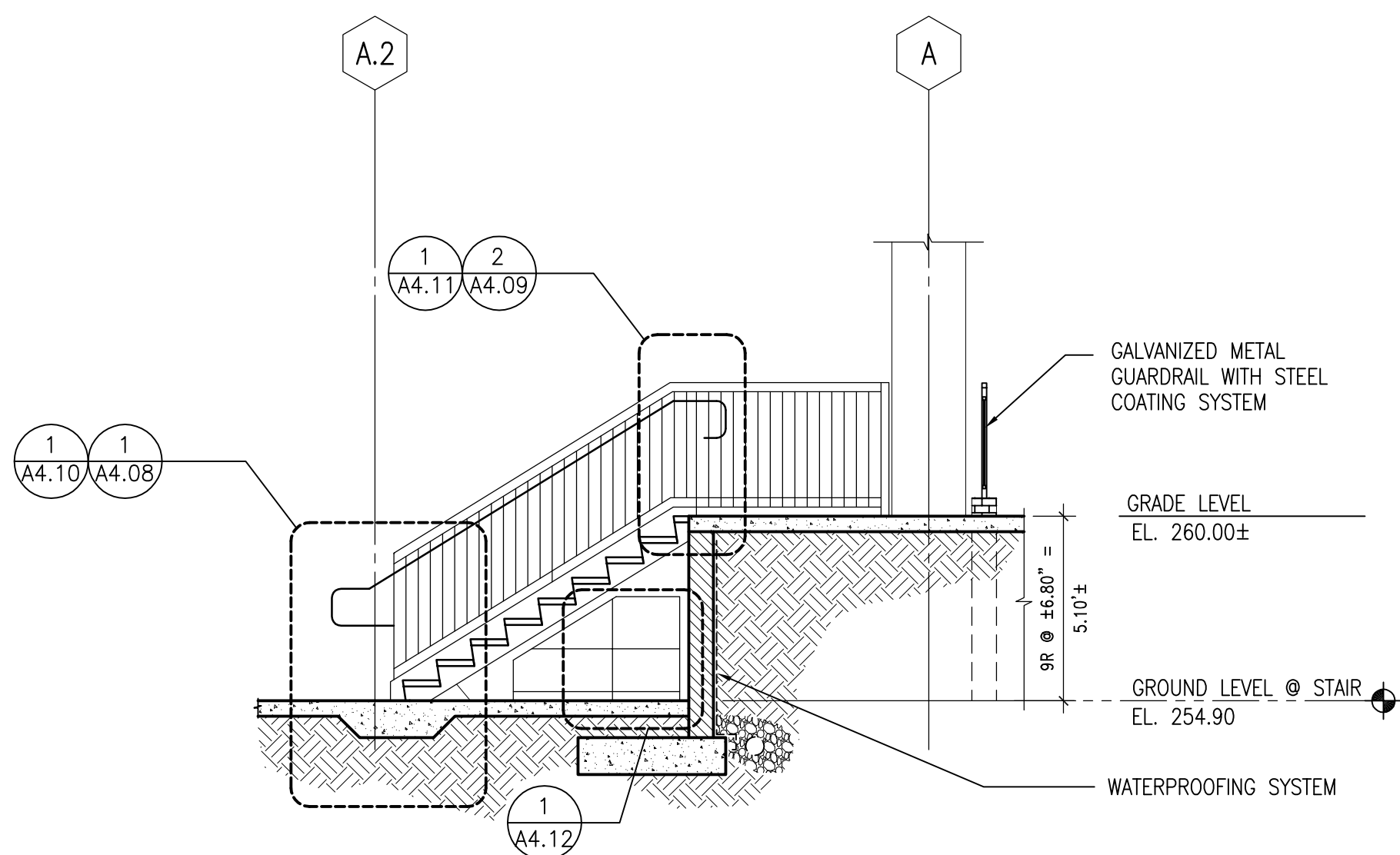
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Sheet Title  
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AND SECTION**

Sheet Number

A4.06

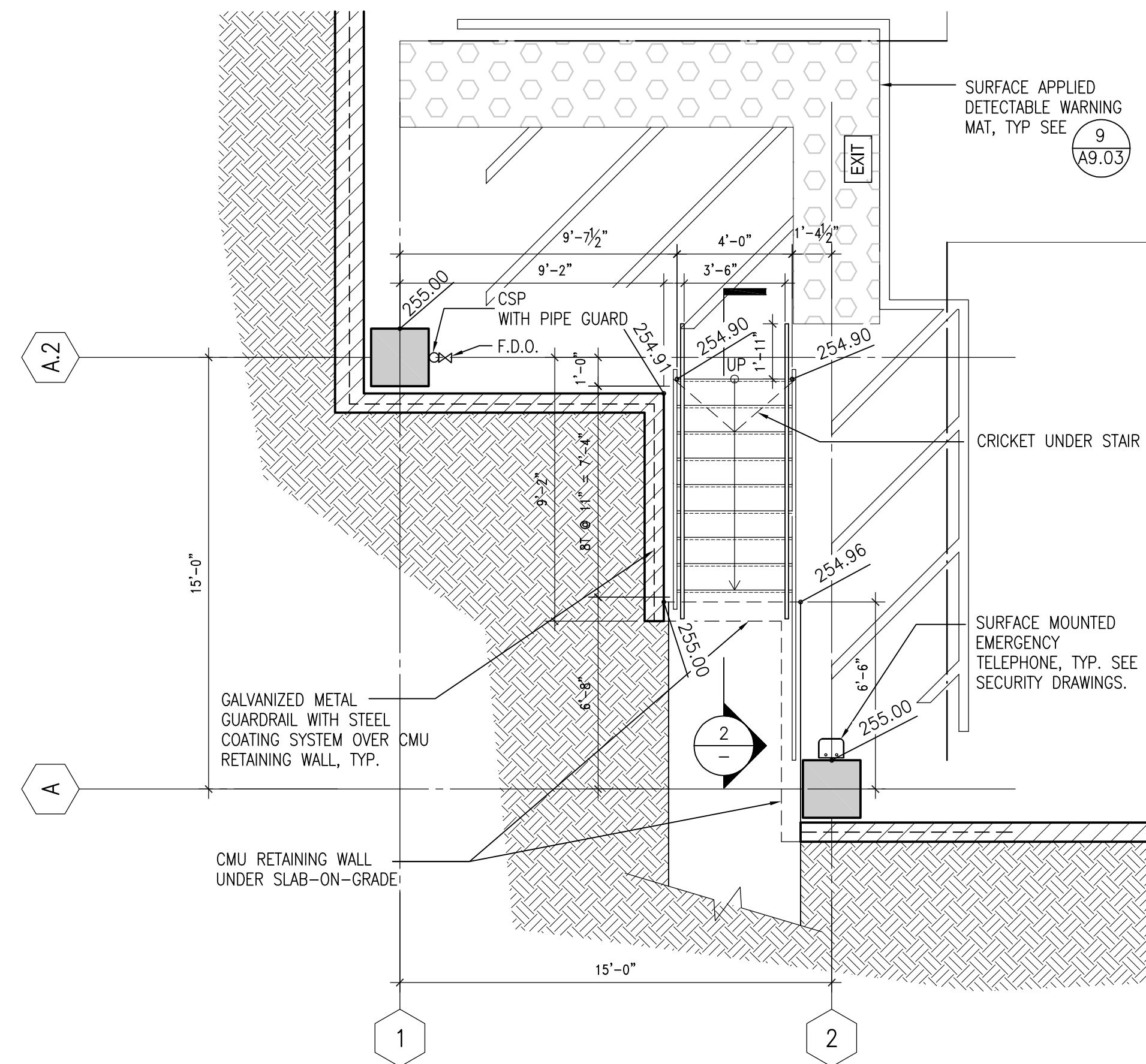
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STAIR NO. 4 SECTION

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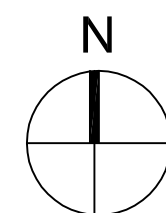
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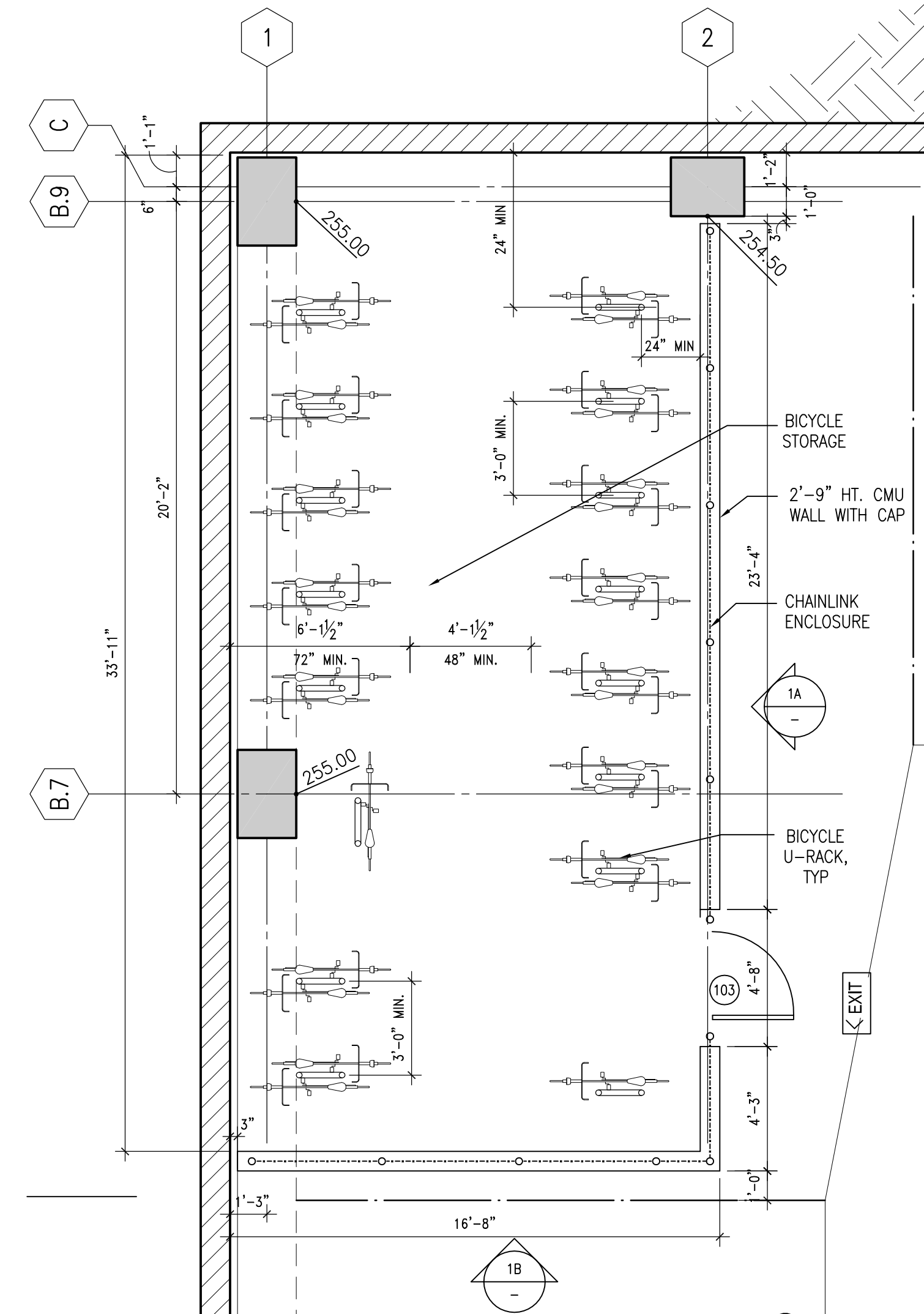
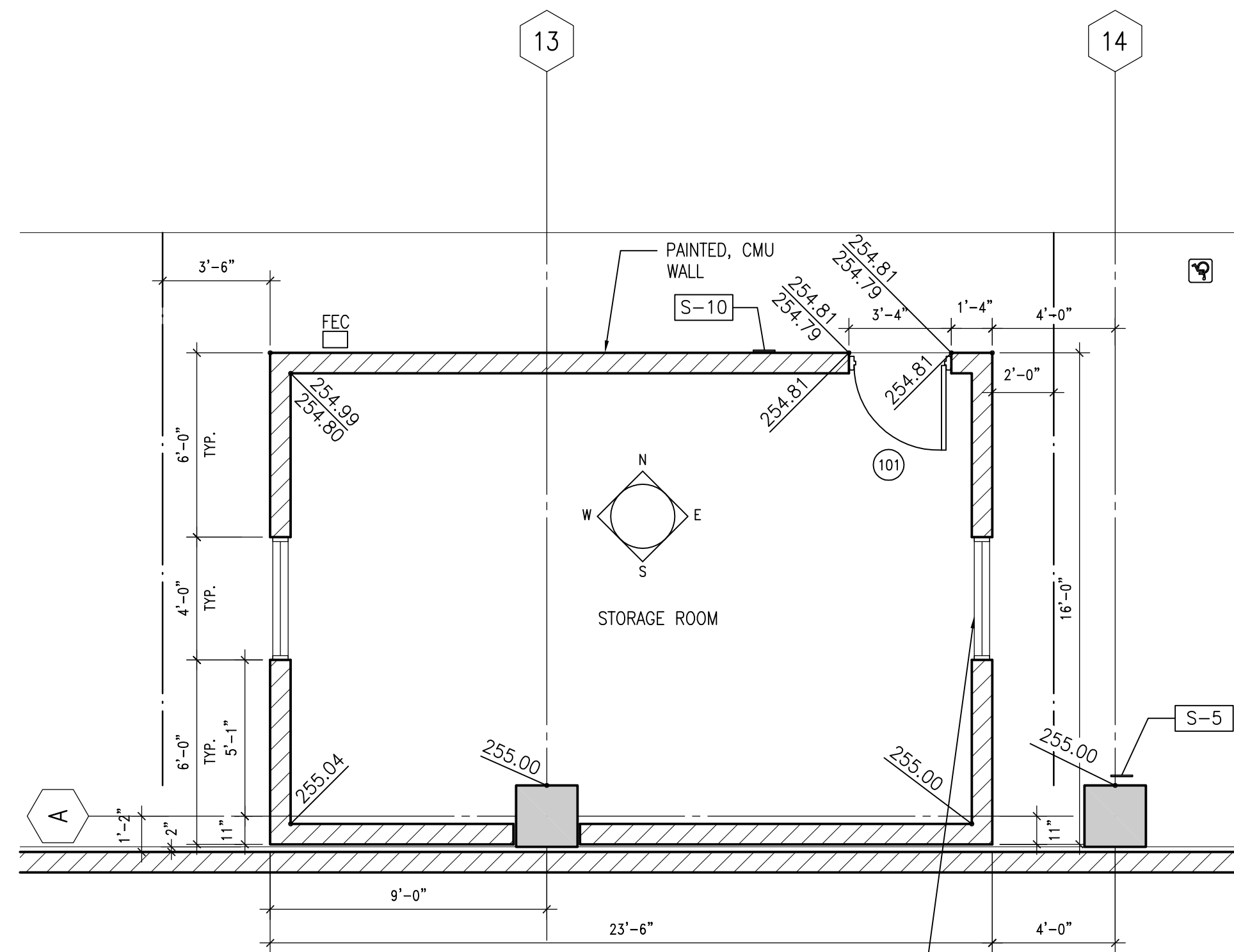
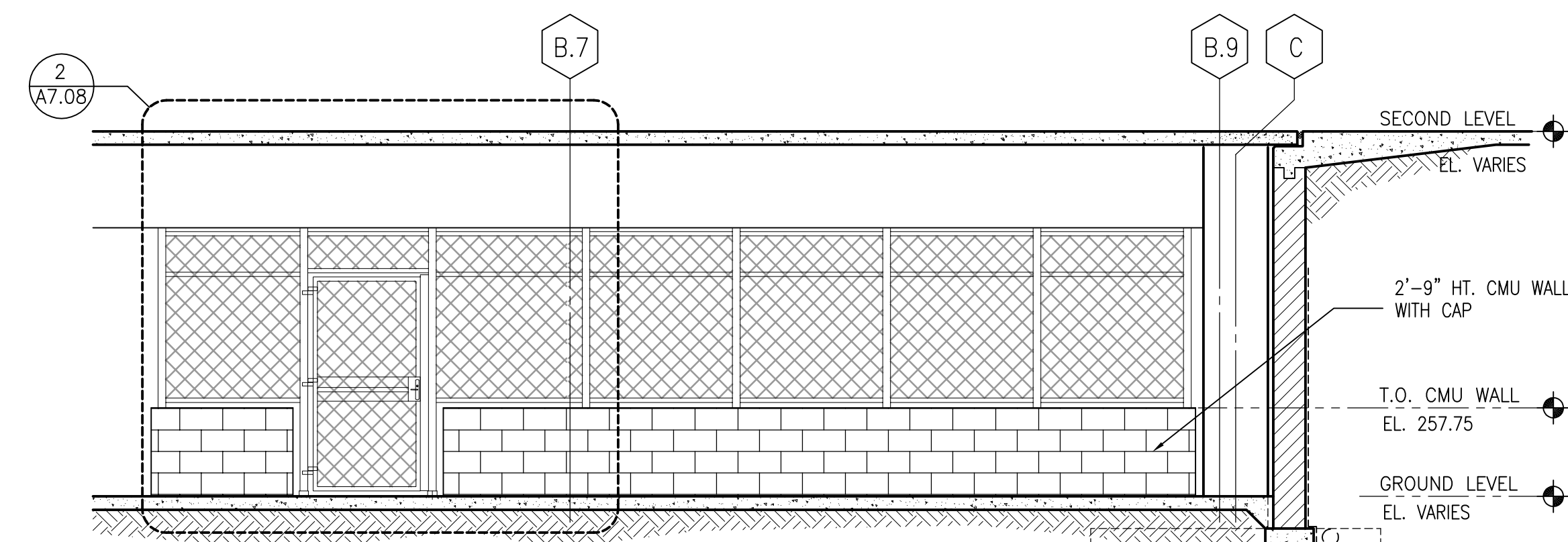
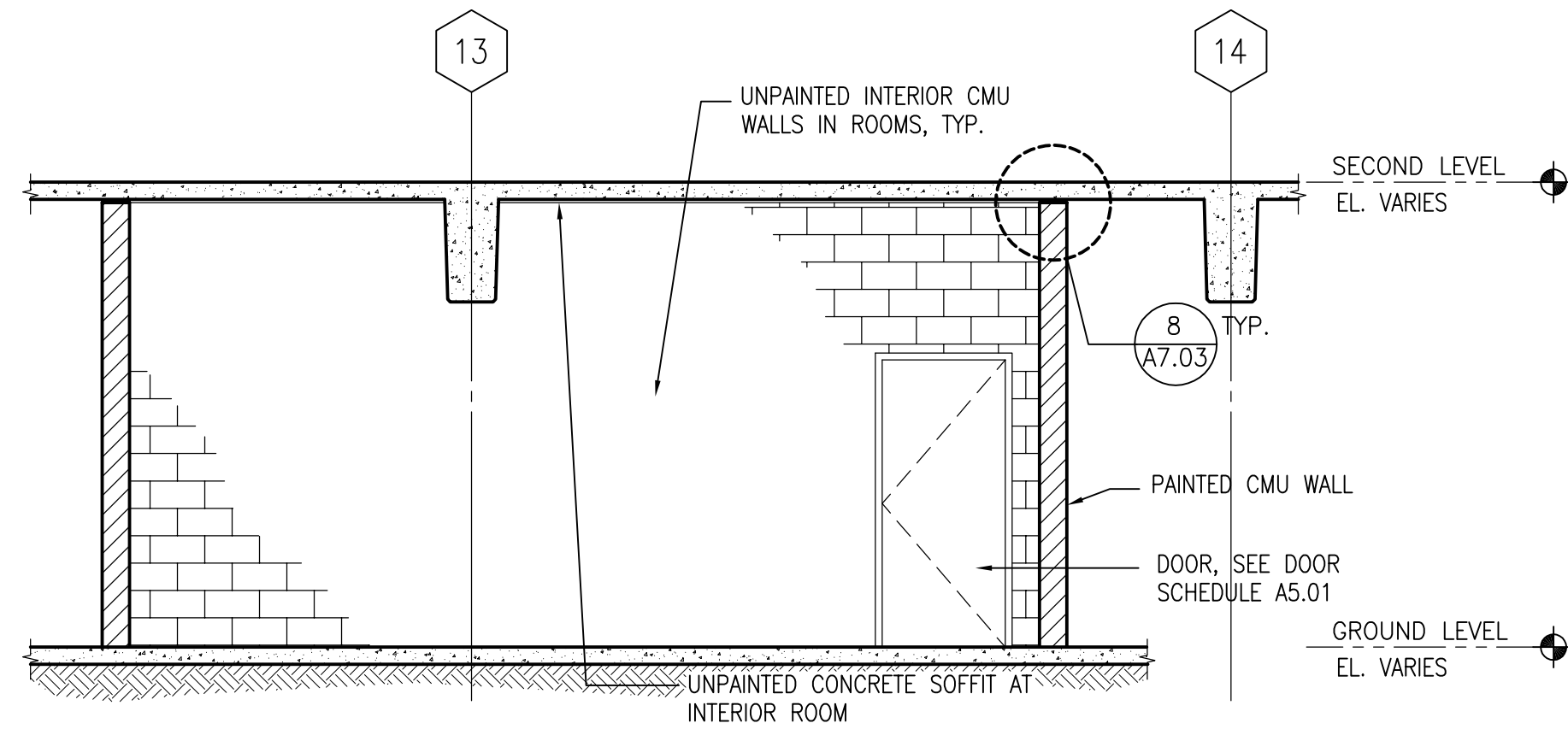
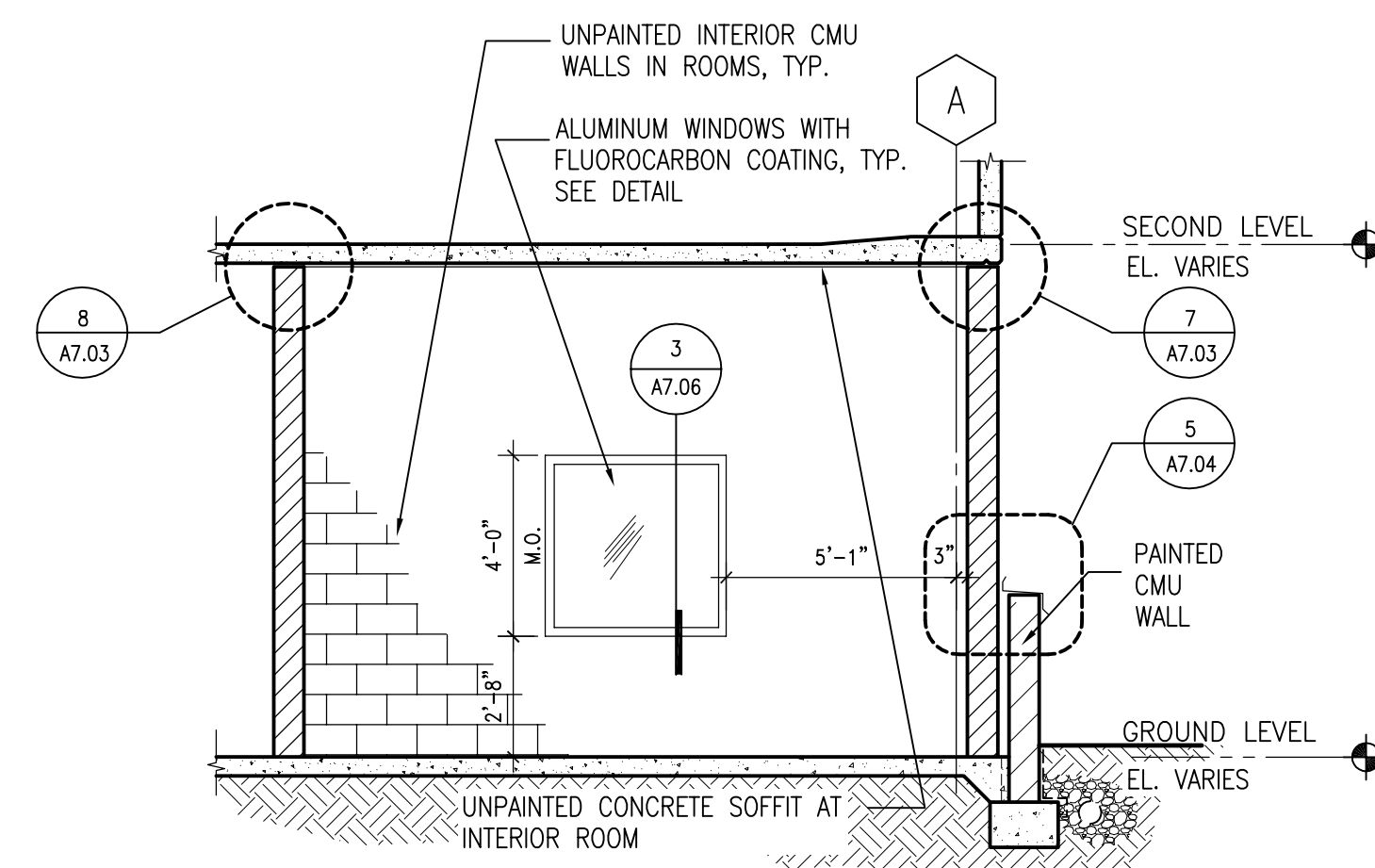
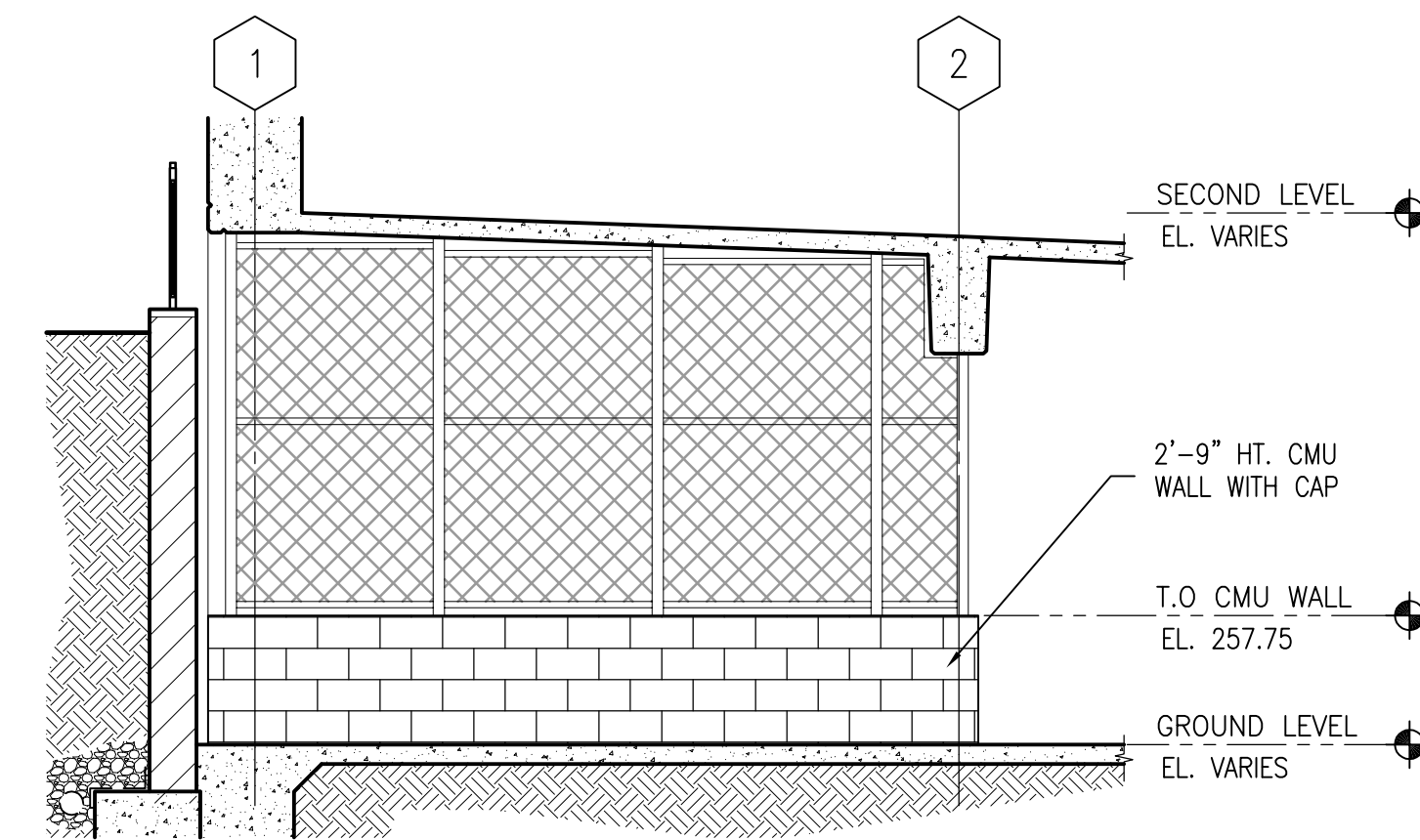
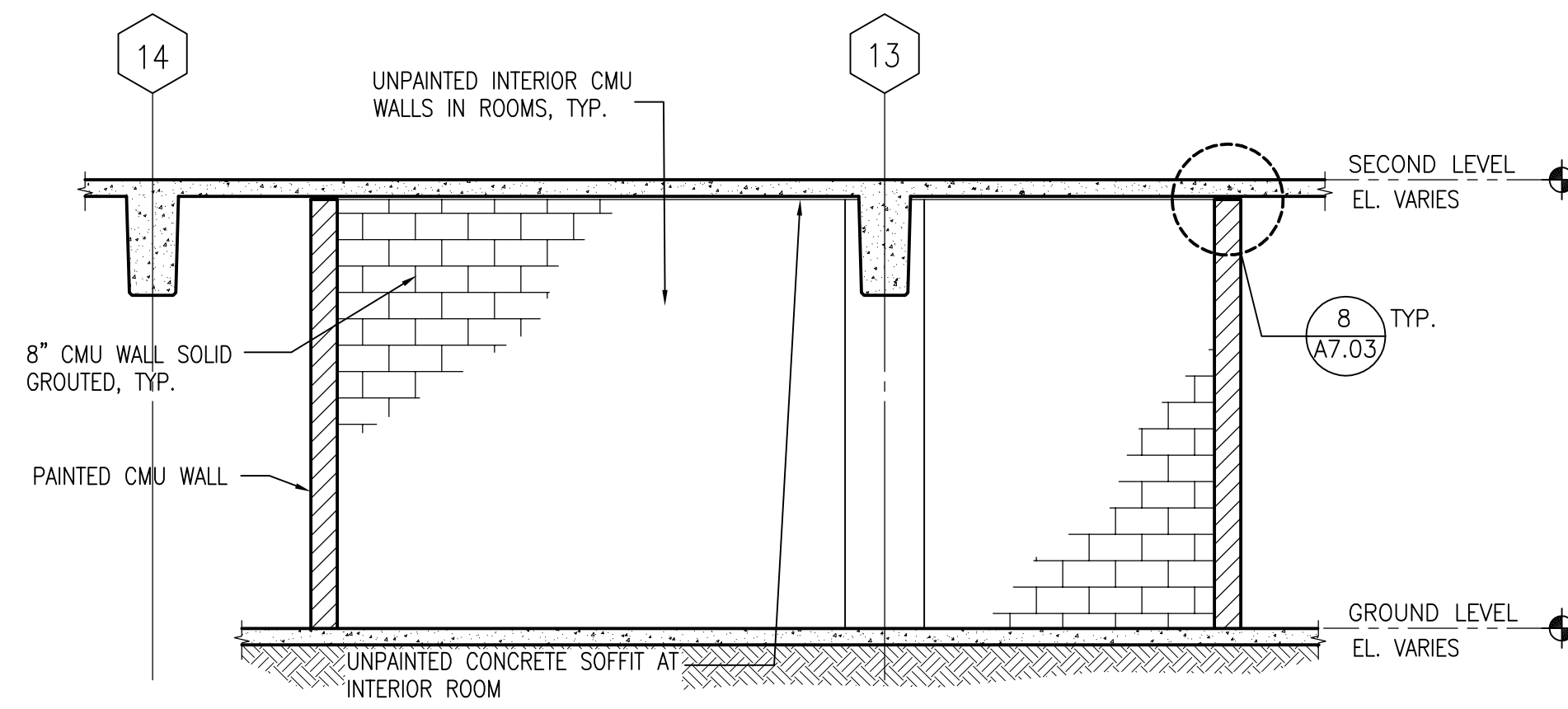
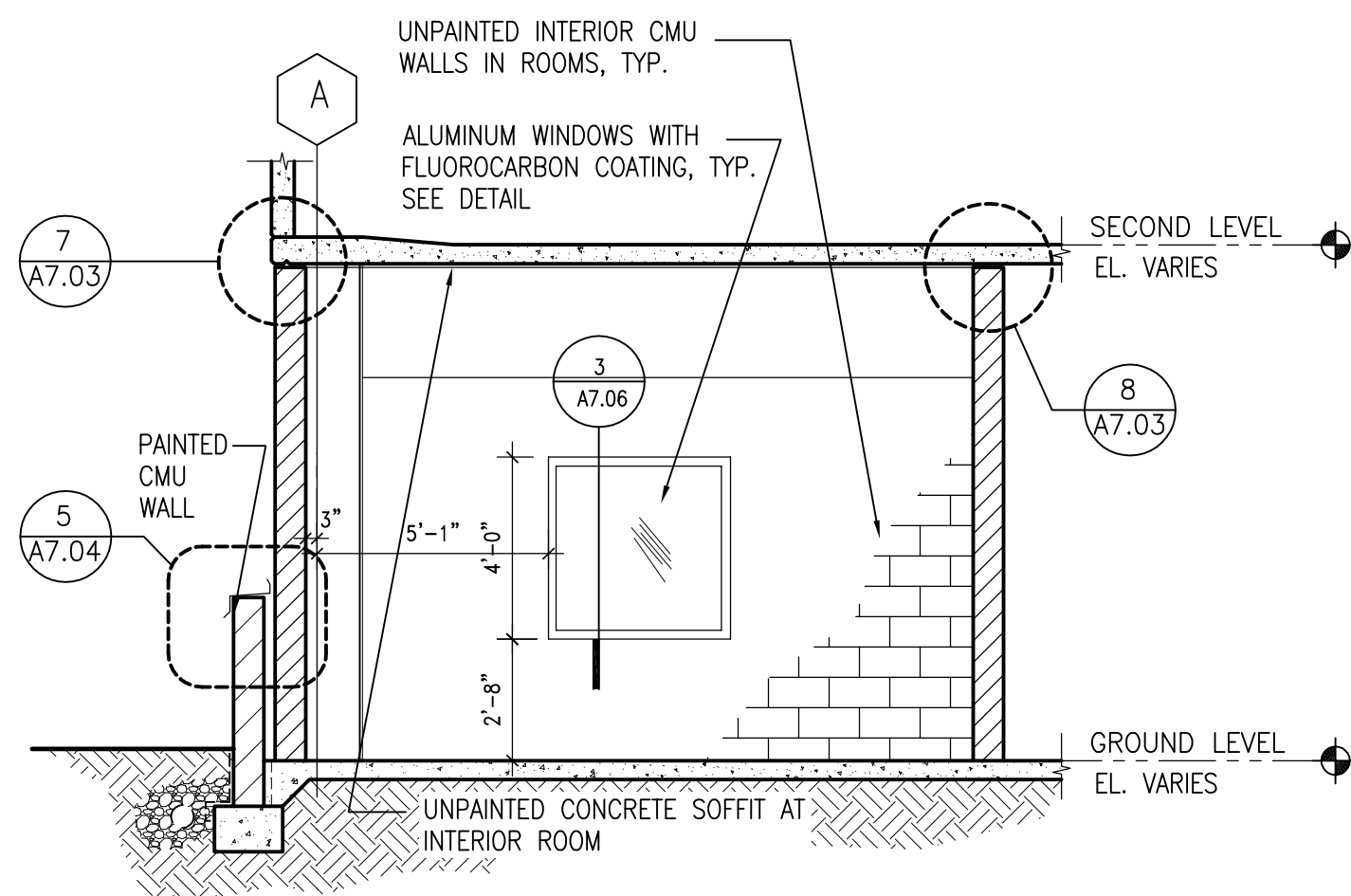
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STRUCTURE AND  
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**ENLARGED MISC.  
ROOM PLAN**

Sheet Number

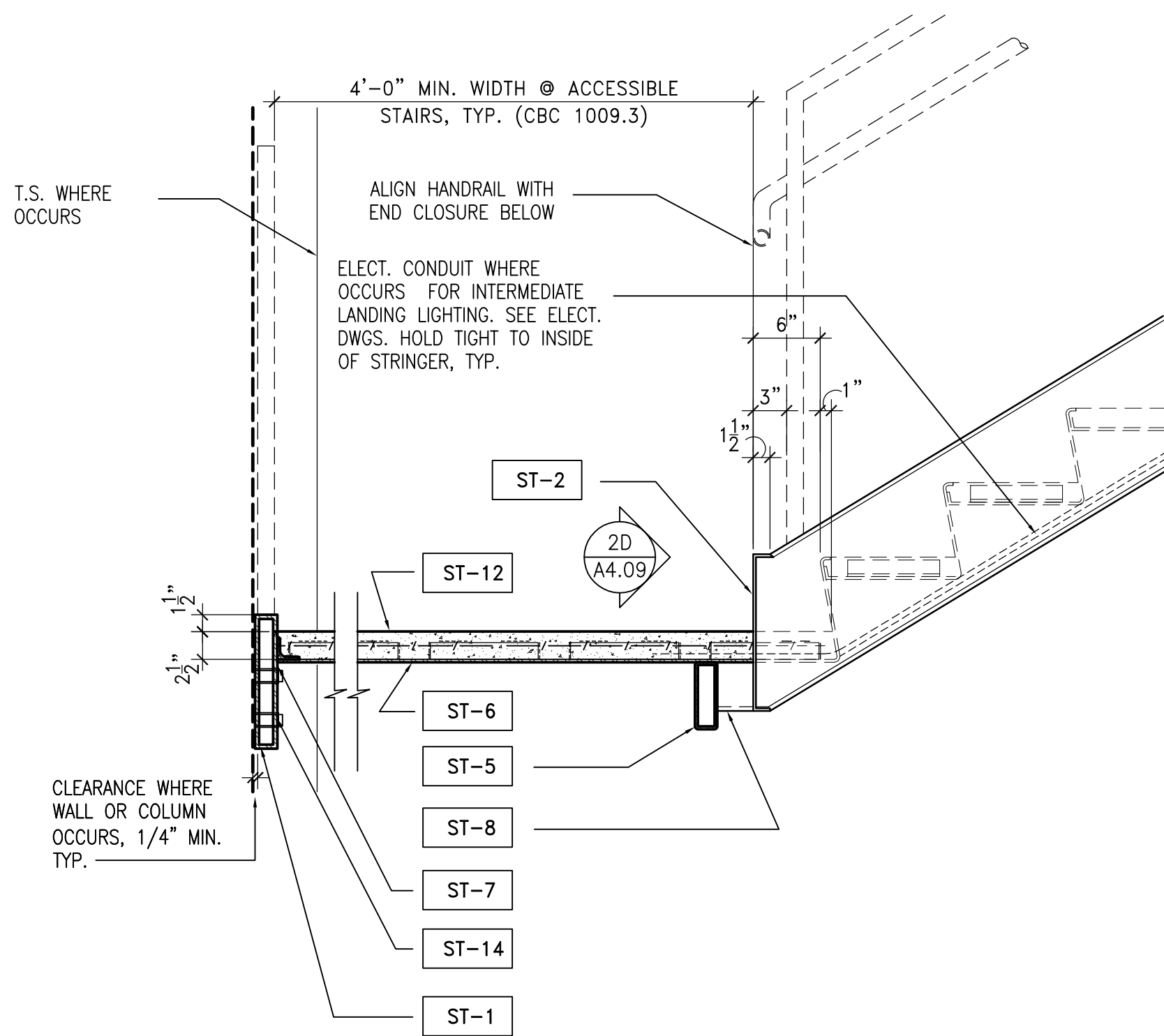
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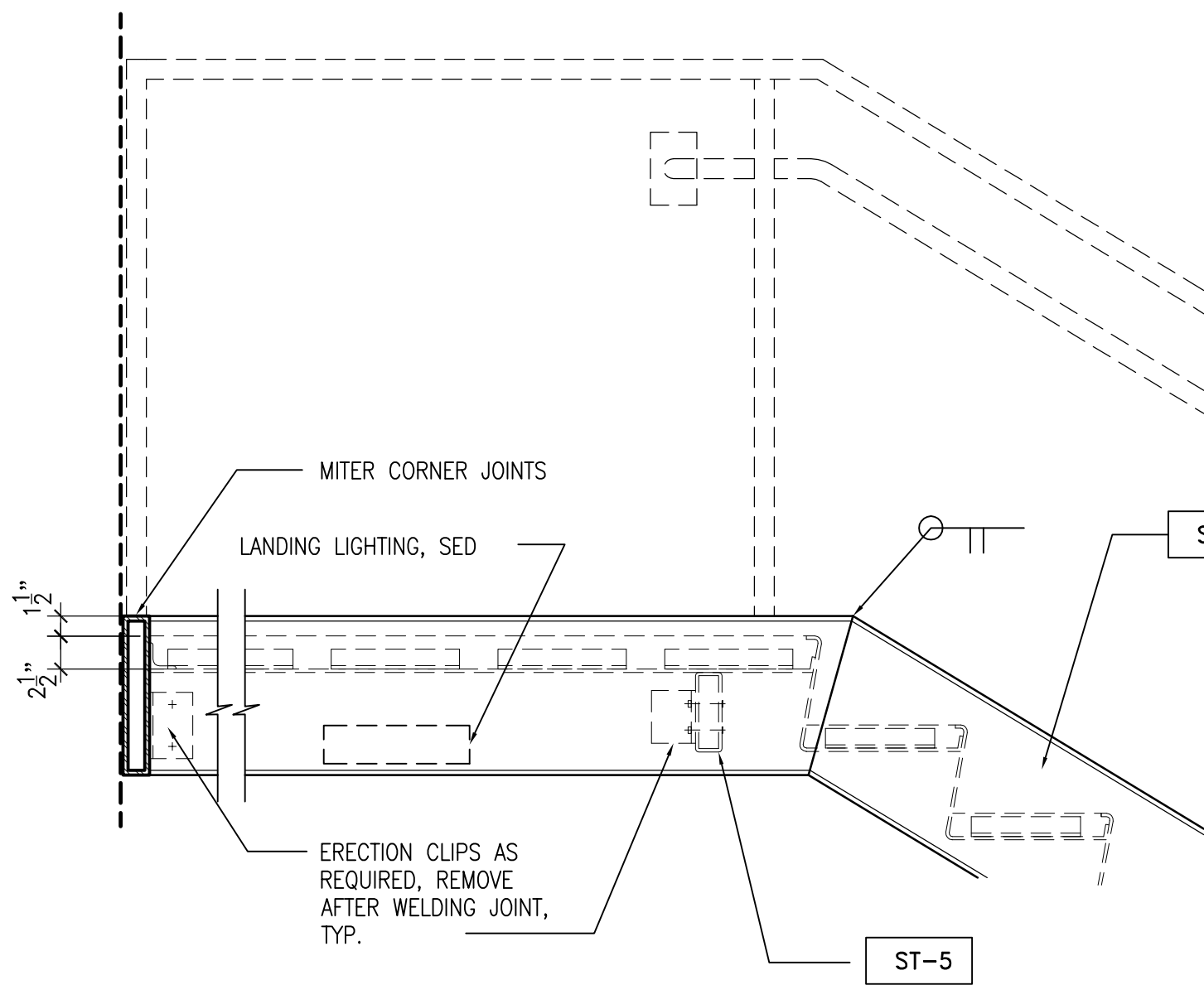
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INTERMEDIATE LANDING (INTERIOR STRINGER, UPFLIGHT) DETAIL

SCALE: 1" = 1'-0"

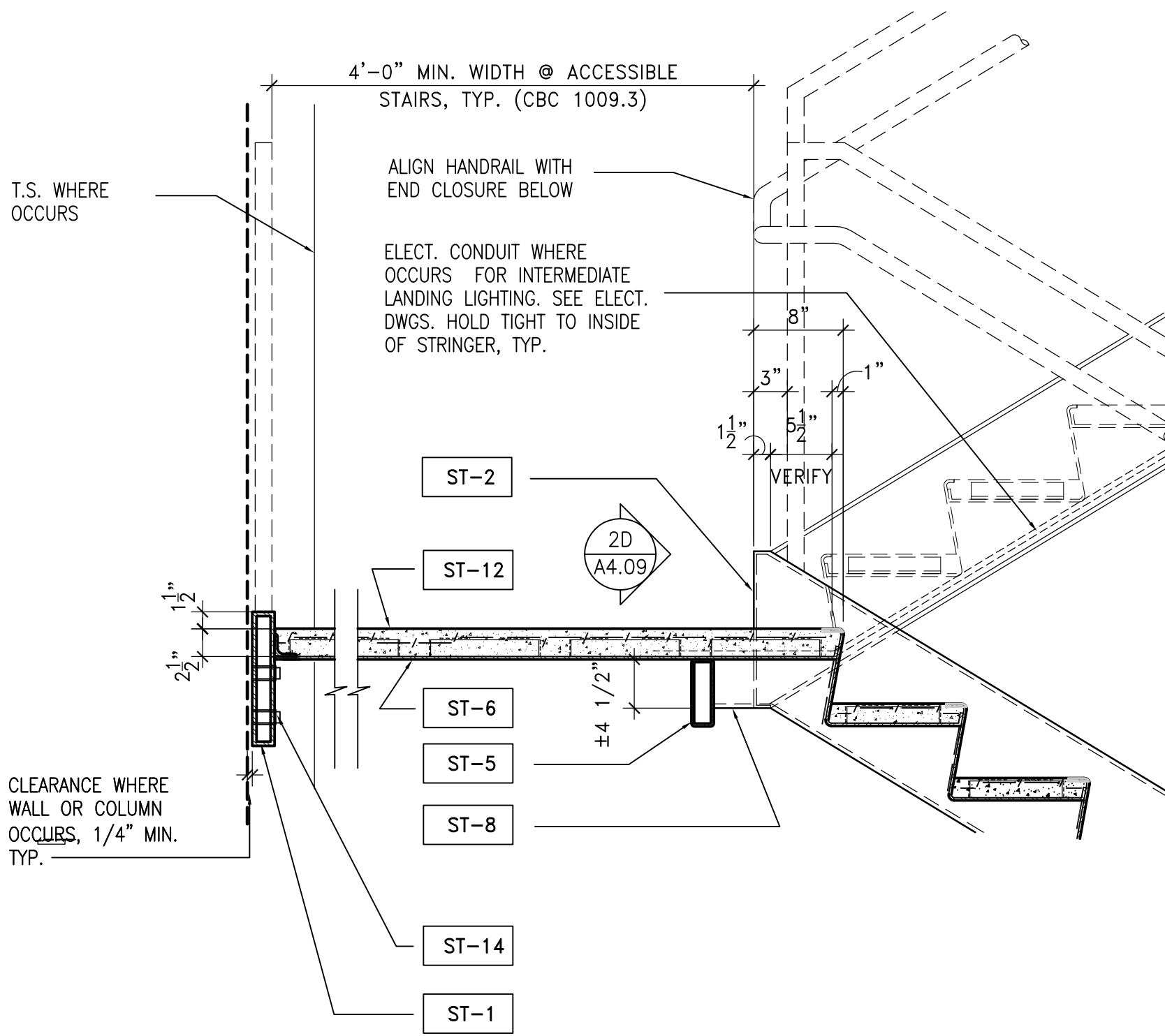
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INTERMEDIATE LANDING (EXTERIOR STRINGER, DOWNFLIGHT) DETAIL

SCALE: 1" = 1'-0"

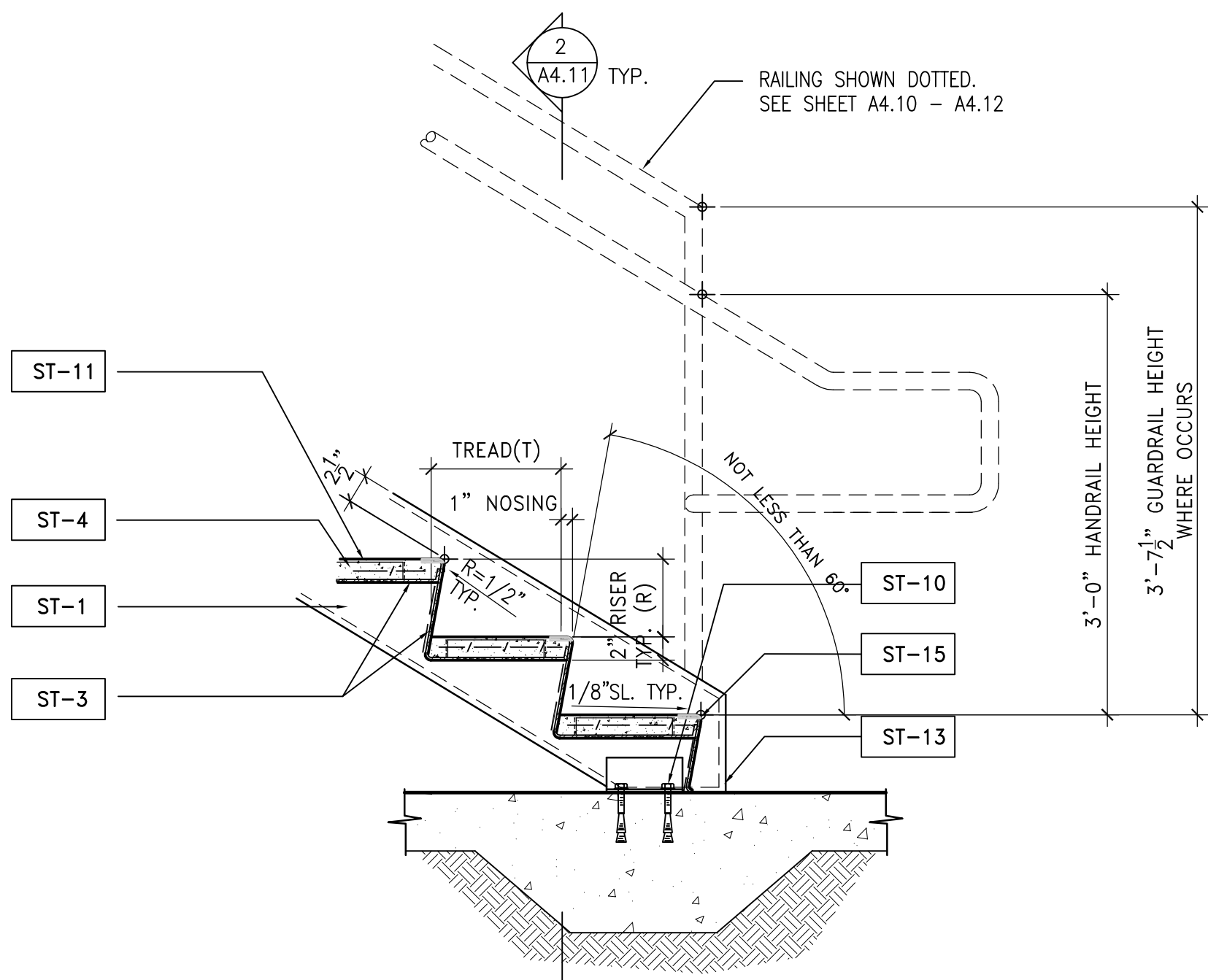
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INTERMEDIATE LANDING (INTERIOR STRINGER, DOWNFLIGHT) DETAIL

SCALE: 1" = 1'-0"

3



GROUND LEVEL DETAIL

SCALE: 1" = 1'-0"

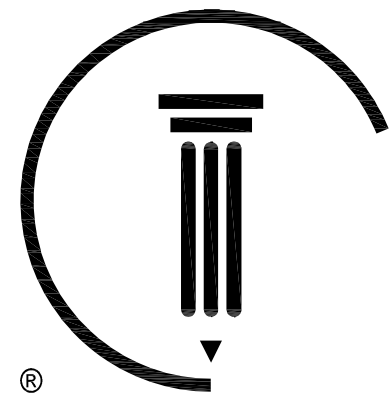
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## STAIR SCHEDULE

DESIGNATION	ITEM	REMARKS	FINISH
ST-1	STRINGER	HSS 12 X 2 X 5/16	STEEL COATING SYSTEM
ST-2	END CLOSURE	1/4" STEEL PLATE, BENT TO CHANNEL SHAPE AS SHOWN	STEEL COATING SYSTEM
ST-3	TREAD & RISER PAN	12 GA. STEEL	STEEL COATING SYSTEM
ST-4	TREAD LEDGER	ANGLE 1 1/2" X 1 1/2" X 1/8" (INVERTED)	STEEL COATING SYSTEM
ST-5	CROSS BEAM(LANDING)	HSS 6 X 2 X 1/4	STEEL COATING SYSTEM
ST-6	LANDING PAN	12 GA. STEEL	STEEL COATING SYSTEM
ST-7	LANDING LEDGER, INVERTED	ANGLE 2" X 2" X 1/4" (INVERTED)	STEEL COATING SYSTEM
ST-8	STRINGER EXTENSION	MC 10 X (1 1/2" FLANGE), CUT & ADD 1/4" WELDED PLATE	STEEL COATING SYSTEM
ST-9	FLOOR LEDGER	ANGLE 5" X 5" X 3/8" W/ 2#4 (A706) X 2'-0" @ 6" - END STRINGER, 3#4 X 2'-0" @ 6" O.C. @ CENTER STRINGERS, BALANCE @ 12" O.C., WELD TO ANGLE.	STEEL COATING SYSTEM
ST-10	FLOOR ANCHOR	2 1/2" @ 6" EMBED AB AT 3'-0" O.C. WITH WASHER PL 3/8" X 5" X 3'-8" CENTER IN 5" HOLES IN PL 1/2"	STEEL COATING SYSTEM
ST-11	CONCRETE FILL, TREAD	2" TH. W/ 6 X 6 W2.1 X W2.1 WWM	STEEL COATING SYSTEM
ST-12	CONCRETE FILL, LANDING	2 1/2" TH. W/ 6 X 6 W2.1 X W2.1 WWM	STEEL COATING SYSTEM
ST-13	MISC. CLOSURE PLATES	5/16" STEEL PLATE	STEEL COATING SYSTEM
ST-14	WALL ANCHOR	2-3/4" @ 5" EMBEDMENT ANCHOR BOLT 6" FROM ENDS & 24" O.C. MAX W/ PIPE SPACERS	STEEL COATING SYSTEM
ST-15	NOSING STRIP	SEE GENERAL STAIR NOTE #1	STEEL COATING SYSTEM

## GENERAL STAIR NOTES

- STAIR STRIPING FOR THE VISUALLY IMPAIRED: ALL TREADS OF ALL STAIRS SHALL BE MARKED BY A STRIPE OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING TO ALERT THE VISUALLY IMPAIRED. THE STRIPE SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE REMAINDER OF THE STAIR TREAD MATERIAL. SEE DETAIL 3/A4.09 AND SPECIFICATIONS 05 50 00, 3.03R.
- SLOPE LANDINGS, PROVIDE CRICKETS TO DRAIN WATER AND PREVENT PONDING AND "BIRD BATHS", SEE PLANS.
- PROVIDE 6'-8" MINIMUM HEADROOM AT STAIRS, 7'-0" MINIMUM HEADROOM AT LANDINGS, COORDINATE WITH STRUCTURAL DRAWINGS TO MAINTAIN THIS REQUIREMENT.
- PROVIDE GUARDRAILS UNDER OPEN LANDINGS TO MAINTAIN 7'-0" MINIMUM HEADROOM UNDERNEATH, SEE PLANS.
- NOT USED
- PROVIDE ADDITIONAL CALCULATIONS, AND ADJUST AS NEEDED. FABRICATE STAIRS TO MEET CODE REQUIREMENTS. SEE SPECIFICATION SECTION 05 50 00.
- 3/8" THK. WELD AND GRIND SMOOTH ALL WELD JOINTS.
- FOR FINISHES AND SURFACE PREPARATION, SEE SPECIFICATIONS SECTIONS 05 50 00 AND 09 97 13.
- AT STAIR STRINGER/HANDRAIL POST CONNECTIONS, PROVIDE STAIR STIFFENER PLATES AS REQUIRED.
- PROVIDE WATER REPELLING ADMIXTURE AS INDICATED IN THE SPECIFICATIONS.
- PRE FINISH MEMBERS THAT ARE NOT ACCESSIBLE FOR APPLYING FINISH WHERE STAIRS ADJOIN ENCLOSING WALLS & STRUCTURE. FIELD CONNECTIONS SHALL BE TOUCHED UP TO MATCH.
- NOT USED
- PROVIDE WATERPROOF COATING @ CONCEALED PORTION OF CONCRETE FILLED STAIR PANS & LANDINGS PRIOR TO CONCRETE FILL, PROVIDE 2 WEEP HOLES EACH END/SIDE FOR DRAINAGE. SEE SPECIFICATION SECTION 07 14 16.
- PROVIDE ELASTOMETRIC COATING OVER THE CONCRETE FILL TREADS AND LANDINGS FOR THE STAIR FLIGHTS BETWEEN THE ROOF LEVEL AND THE LEVEL BELOW. SEE SPECIFICATION SECTION 07 18 00.
- HOT-DIPPED GALVANIZE AFTER FABRICATION



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TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY

Sheet Title

TYPICAL STAIR  
DETAILS

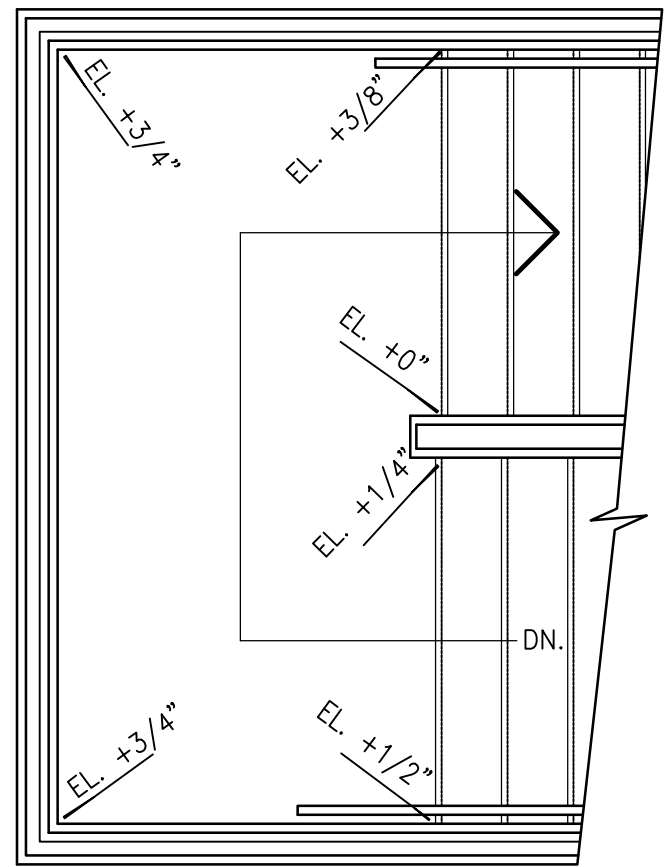
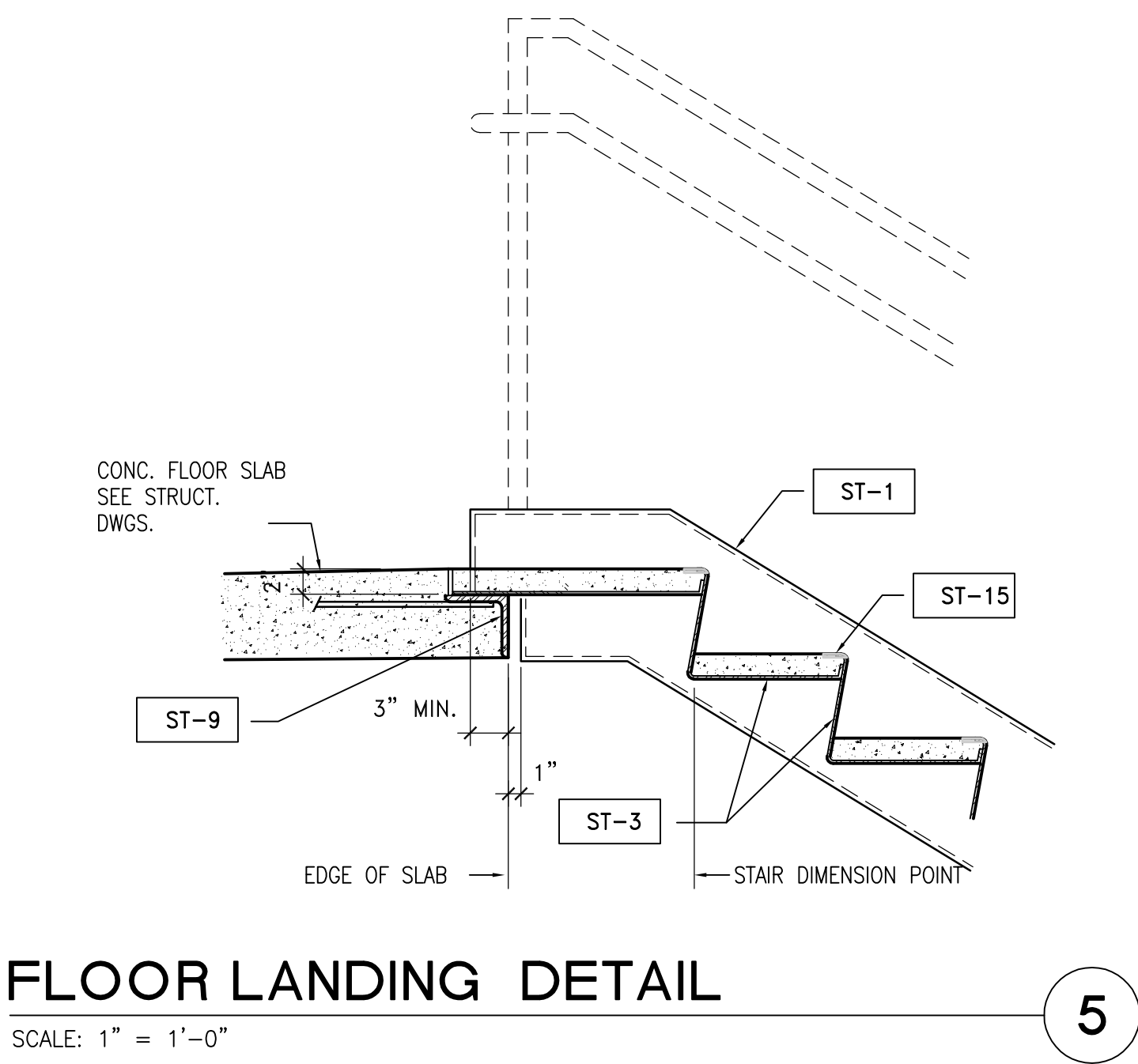
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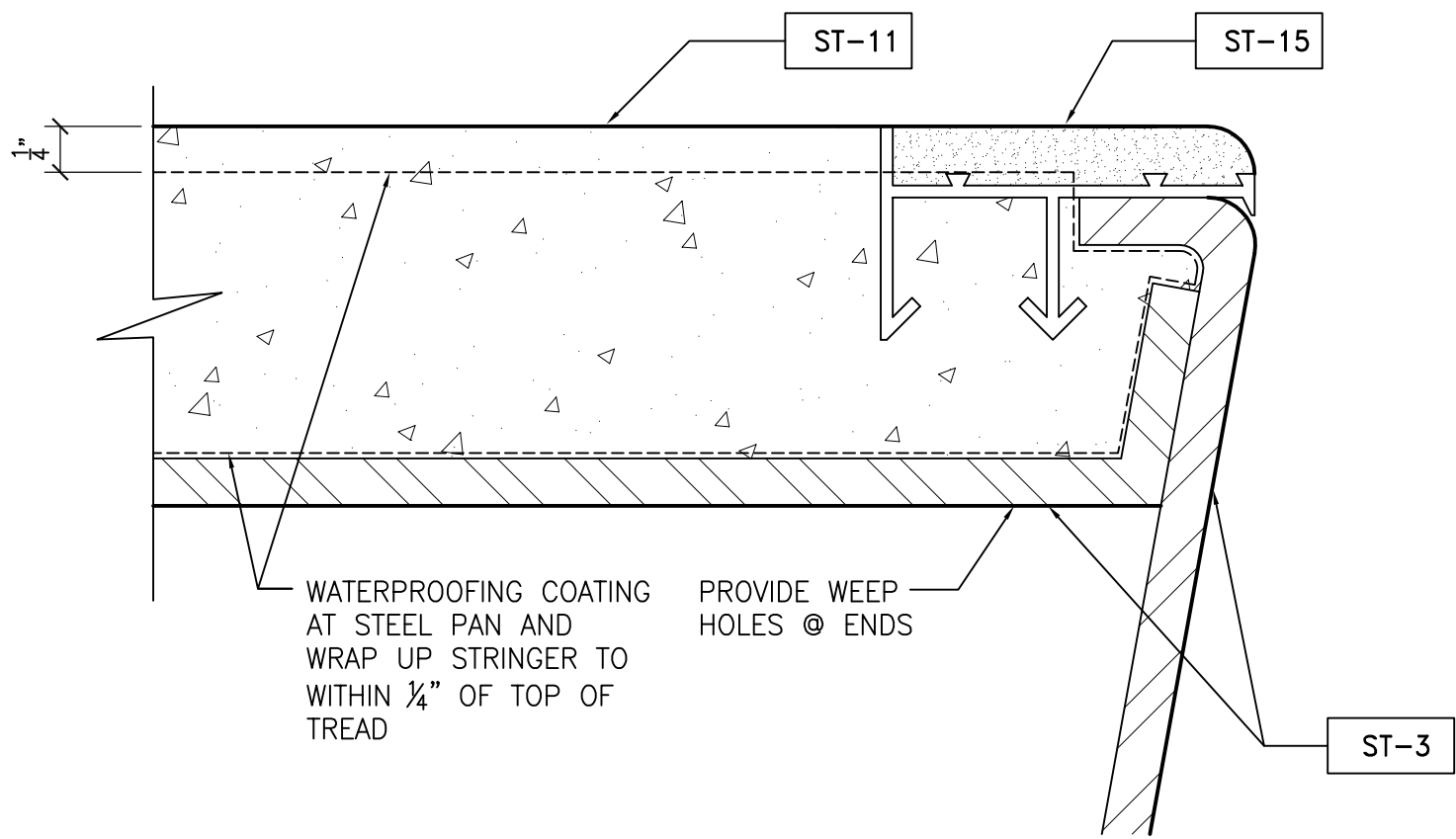




NOTE:  
EL. +0.0 = ACTUAL LANDING ELEVATION.  
SEE STAIR PLANS FOR ACTUAL ELEVATION

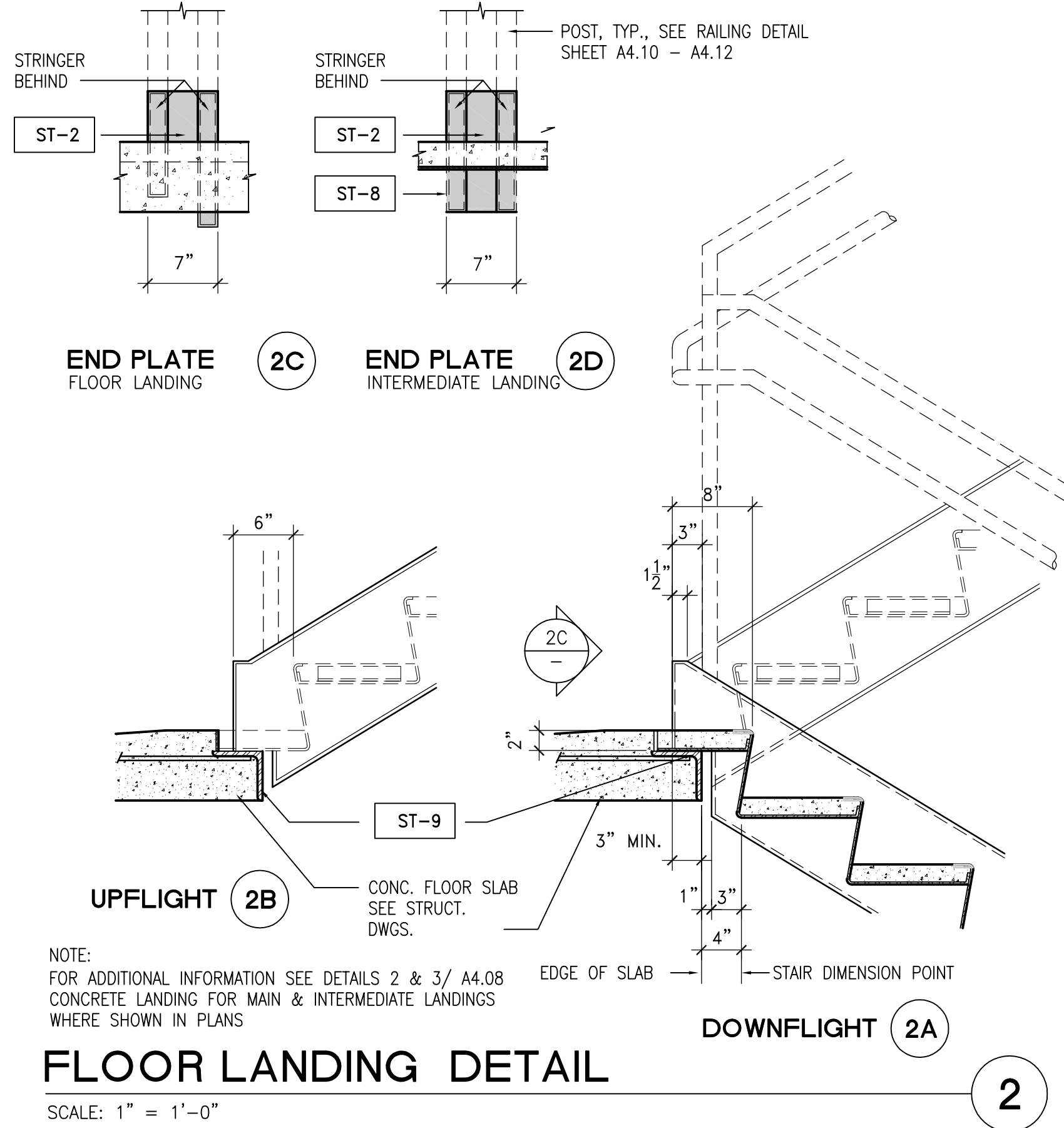
## INTERMEDIATE LANDING SPOT ELEVATIONS

SCALE: NO SCALE



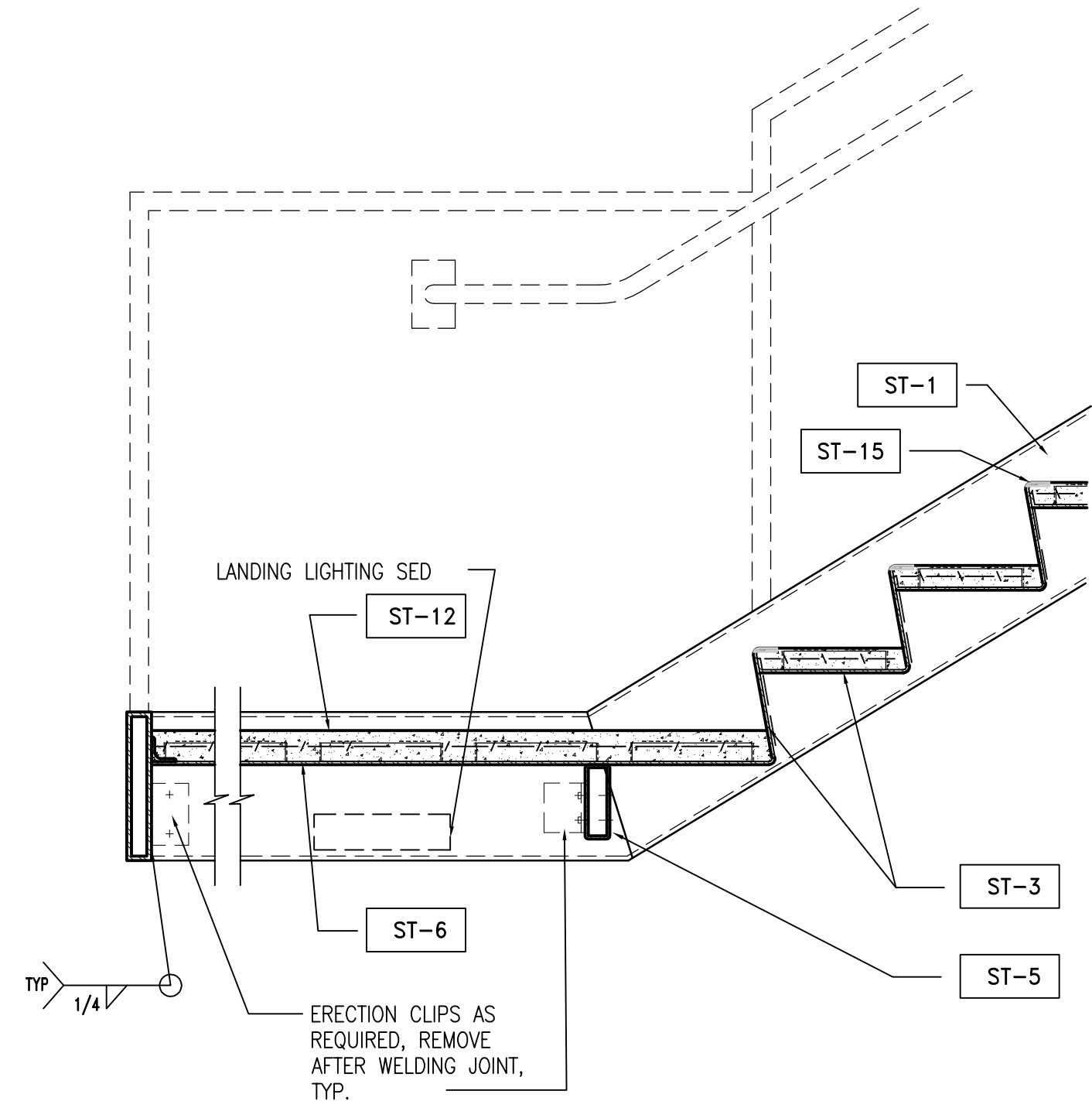
## NOSING STRIP DETAIL

SCALE: FULL



## FLOOR LANDING DETAIL

SCALE: 1" = 1'-0"



## INTERMEDIATE LANDING (EXTERIOR STRINGER, UPFLIGHT) DETAIL

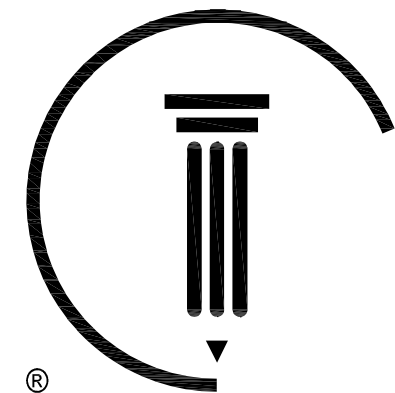
SCALE: 1" = 1'-0"

## STAIR SCHEDULE

DESIGNATION	ITEM	REMARKS	FINISH
ST-1	STRINGER	HSS 12 X 2 X 5/16	STEEL COATING SYSTEM
ST-2	END CLOSURE	1/4" STEEL PLATE, BENT TO CHANNEL SHAPE AS SHOWN	STEEL COATING SYSTEM
ST-3	TREAD & RISER PAN	12 GA. STEEL	STEEL COATING SYSTEM
ST-4	TREAD LEDGER	ANGLE 1 1/2" X 1 1/2" X 1/8" (INVERTED)	STEEL COATING SYSTEM
ST-5	CROSS BEAM(LANDING)	HSS 6 X 2 X 1/4	STEEL COATING SYSTEM
ST-6	LANDING PAN	12 GA. STEEL	STEEL COATING SYSTEM
ST-7	LANDING LEDGER, INVERTED	ANGLE 2" X 2" X 1/4" (INVERTED)	STEEL COATING SYSTEM
ST-8	STRINGER EXTENSION	MC 10 X (1 1/2" FLANGE), CUT & ADD 1/4" WELDED PLATE	STEEL COATING SYSTEM
ST-9	FLOOR LEDGER	ANGLE 5" X 5" X 3/8" W/ 2#4 (A706) X 2'-0" @ 6" - END STRINGER, 3#4 X 2'-0" @ 6" O.C. @ CENTER STRINGERS, BALANCE @ 12" O.C., WELD TO ANGLE.	STEEL COATING SYSTEM
ST-10	FLOOR ANCHOR	2 1/2" @ 6" EMBED AB AT 3'-0" O.C. WITH WASHER PL 3/8" X 5" X 3'-8" CENTER IN 5" HOLES IN PL 1/2"	STEEL COATING SYSTEM
ST-11	CONCRETE FILL, TREAD	2" TH. W/ 6 X 6 W2.1 X W2.1 WWM	STEEL COATING SYSTEM
ST-12	CONCRETE FILL, LANDING	2 1/2" TH. W/ 6 X 6 W2.1 X W2.1 WWM	STEEL COATING SYSTEM
ST-13	MISC. CLOSURE PLATES	5/16" STEEL PLATE	STEEL COATING SYSTEM
ST-14	WALL ANCHOR	2-3/4" @ 5" EMBEDMENT ANCHOR BOLT 6" FROM ENDS & 24" O.C. MAX W/ PIPE SPACERS	STEEL COATING SYSTEM
ST-15	NOSING STRIP	SEE GENERAL STAIR NOTE #1	STEEL COATING SYSTEM

## GENERAL STAIR NOTES

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- PROVIDE GUARDRAILS UNDER OPEN LANDINGS TO MAINTAIN 7'-0" MINIMUM HEADROOM UNDERNEATH, SEE PLANS.
- NOT USED
- PROVIDE ADDITIONAL CALCULATIONS, AND ADJUST AS NEEDED. FABRICATE STAIRS TO MEET CODE REQUIREMENTS. SEE SPECIFICATION SECTION 05 50 00.
- 3/16" THK. WELD AND GRIND SMOOTH ALL WELD JOINTS.
- FOR FINISHES AND SURFACE PREPARATION, SEE SPECIFICATIONS SECTIONS 05 50 00 AND 09 97 13.
- AT STAIR STRINGER/HANDRAIL POST CONNECTIONS, PROVIDE STAIR STIFFENER PLATES AS REQUIRED.
- PROVIDE WATER REPELLING ADMIXTURE AS INDICATED IN THE SPECIFICATIONS.
- PRE FINISH MEMBERS THAT ARE NOT ACCESSIBLE FOR APPLYING FINISH WHERE STAIRS ADJOIN ENCLOSING WALLS & STRUCTURE. FIELD CONNECTIONS SHALL BE TOUCHED UP TO MATCH.
- NOT USED
- PROVIDE WATERPROOF COATING @ CONCEALED PORTION OF CONCRETE FILLED STAIR PANS & LANDINGS PRIOR TO CONCRETE FILL, PROVIDE 2 WEEP HOLES EACH END/SIDE FOR DRAINAGE. SEE SPECIFICATION SECTION 07 14 16.
- PROVIDE ELASTOMETRIC COATING OVER THE CONCRETE FILL TREADS AND LANDINGS FOR THE STAIR FLIGHTS BETWEEN THE ROOF LEVEL AND THE LEVEL BELOW. SEE SPECIFICATION SECTION 07 18 00.
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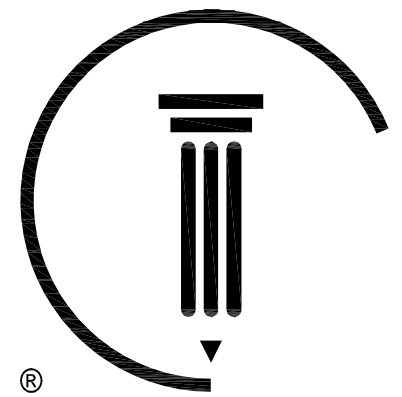


RAIL SCHEDULE

DESIGNATION	ITEM	REMARKS	FINISH
R-1	POST	1 1/2" X 1 1/2" X .180 STEEL TUBE EQUALLY SPACED @ 4'-0" O.C. MAX.	STEEL COATING SYSTEM. SEE SPECS.
R-2	TOP RAIL @ GUARDRAIL	1 1/2" X 1 1/2" X .180 STEEL TUBE	STEEL COATING SYSTEM. SEE SPECS.
R-3	TOP INTERMEDIATE RAIL	1" X 1" X .120 STEEL TUBE	STEEL COATING SYSTEM. SEE SPECS.
R-4	BOTTOM INTERMEDIATE RAIL	1" X 1" X .120 STEEL TUBE	STEEL COATING SYSTEM. SEE SPECS.
R-5	INFILL PICKETS	1/2" X 1/2" X .065 STEEL TUBES EQUALLY SPACED BETWEEN VERTICAL POSTS WITH LESS THAN 4" SPACE BETWEEN PICKETS	STEEL COATING SYSTEM. SEE SPECS.
R-6	HANDRAIL	1 1/4" NOMINAL (1 5/8" O.D.) STEEL PIPE (CBC 1133B.4.2.6.1)	STEEL COATING SYSTEM. SEE SPECS.
R-7	HANDRAIL CONNECTOR @ POST	5/8" STEEL ROD. PROVIDE @ EACH POST. SEE DETAIL 9C	STEEL COATING SYSTEM. SEE SPECS.
R-8	HANDRAIL CONNECTOR @ WALL	5/8" STEEL ROD. SEE DETAIL 9A OR 9B	STEEL COATING SYSTEM. SEE SPECS.
R-9	MOUNTING PLATE	1/8" STEEL PLATE	STEEL COATING SYSTEM. SEE SPECS.

GENERAL RAIL NOTES

- WELD & GRIND SMOOTH ALL JOINTS & SHARP EDGES BEFORE APPLYING FINISH.
- MAINTAIN CIRCULAR CROSS SECTION @ PIPE RAIL BENDS.
- HOT-DIPPED GALVANIZE AFTER FABRICATION



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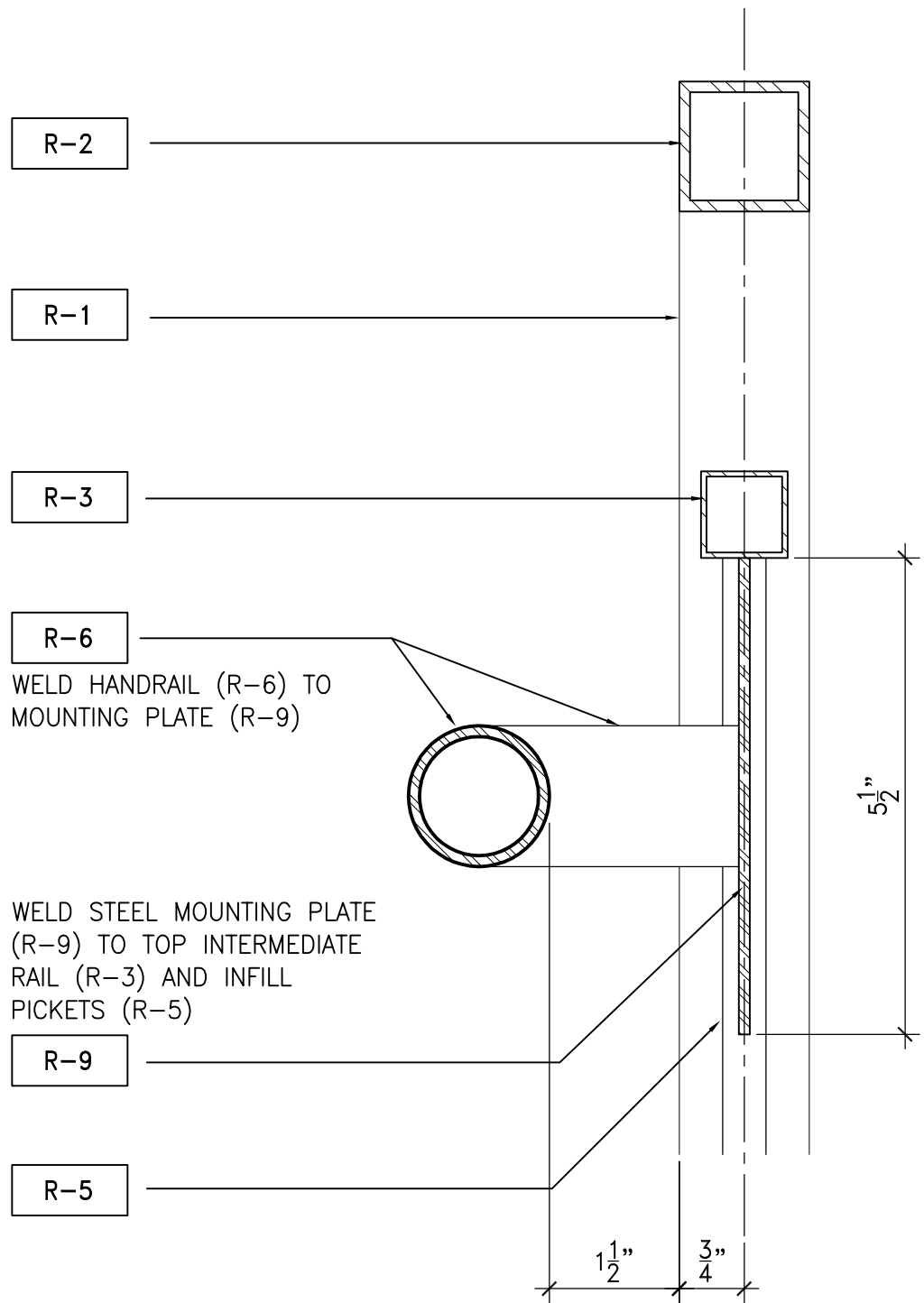
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Sheet Title  
TYPICAL STAIR RAIL  
DETAILS

Sheet Number

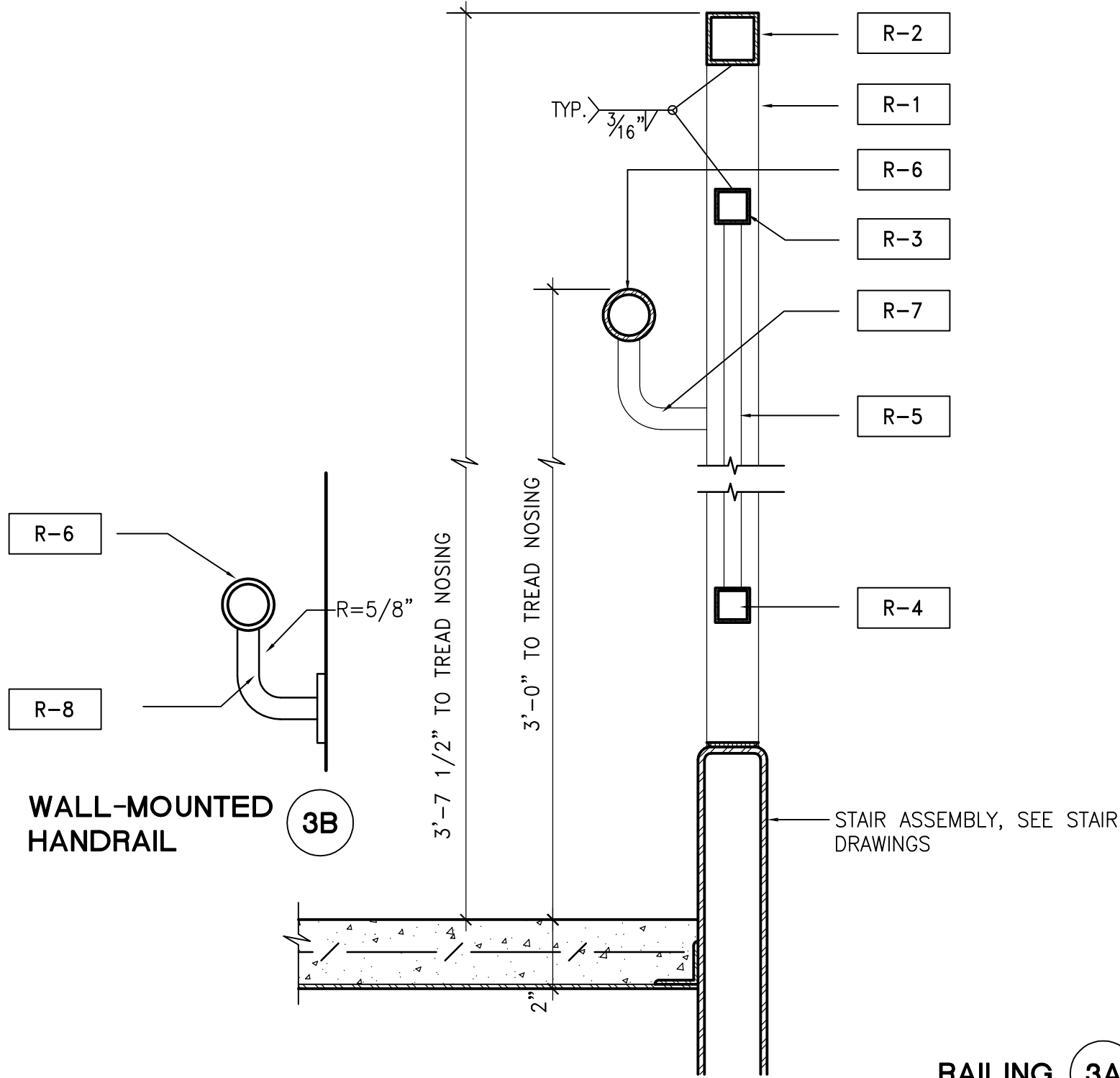
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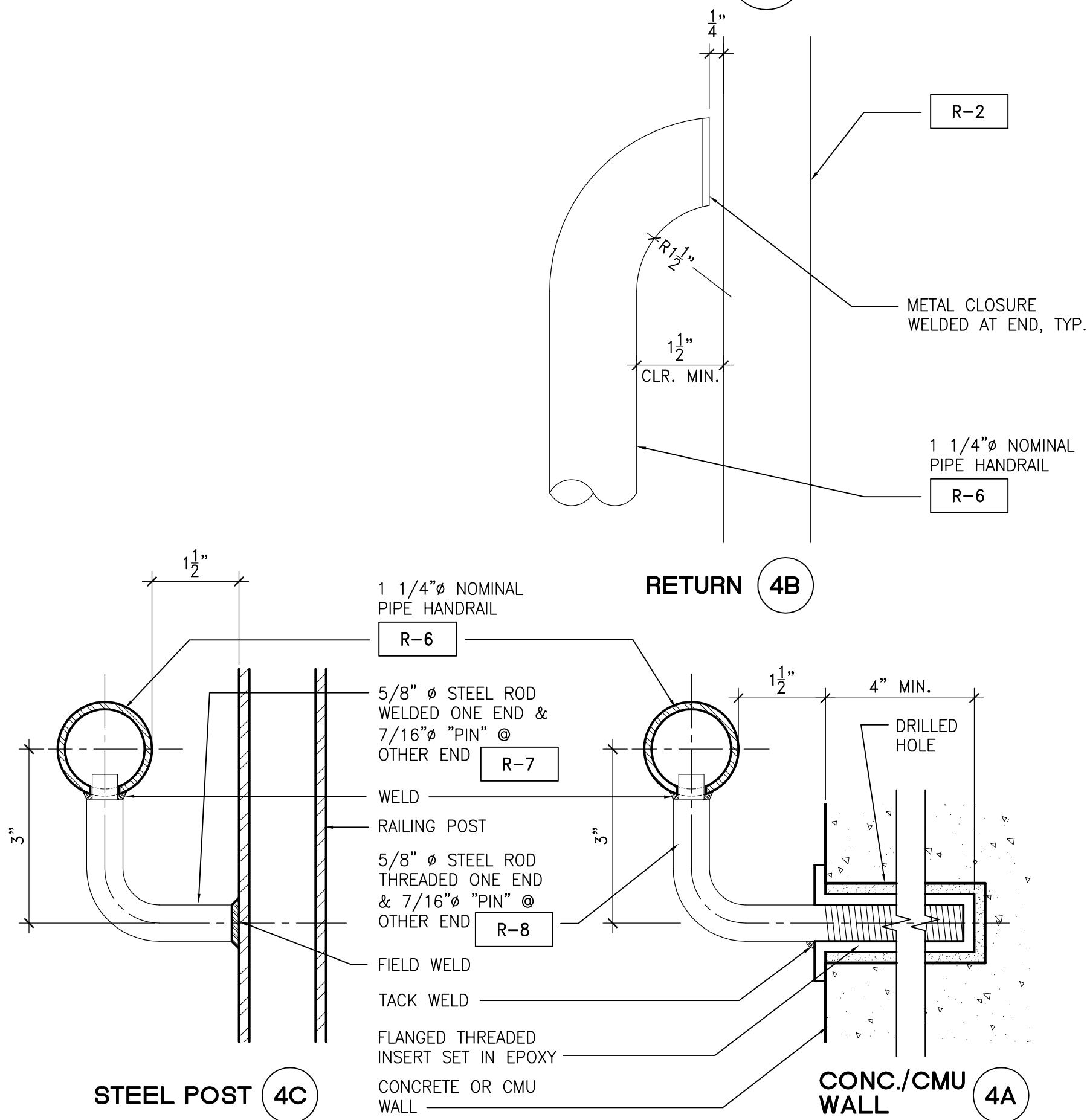
HANDRAIL DETAIL

SCALE: HALF



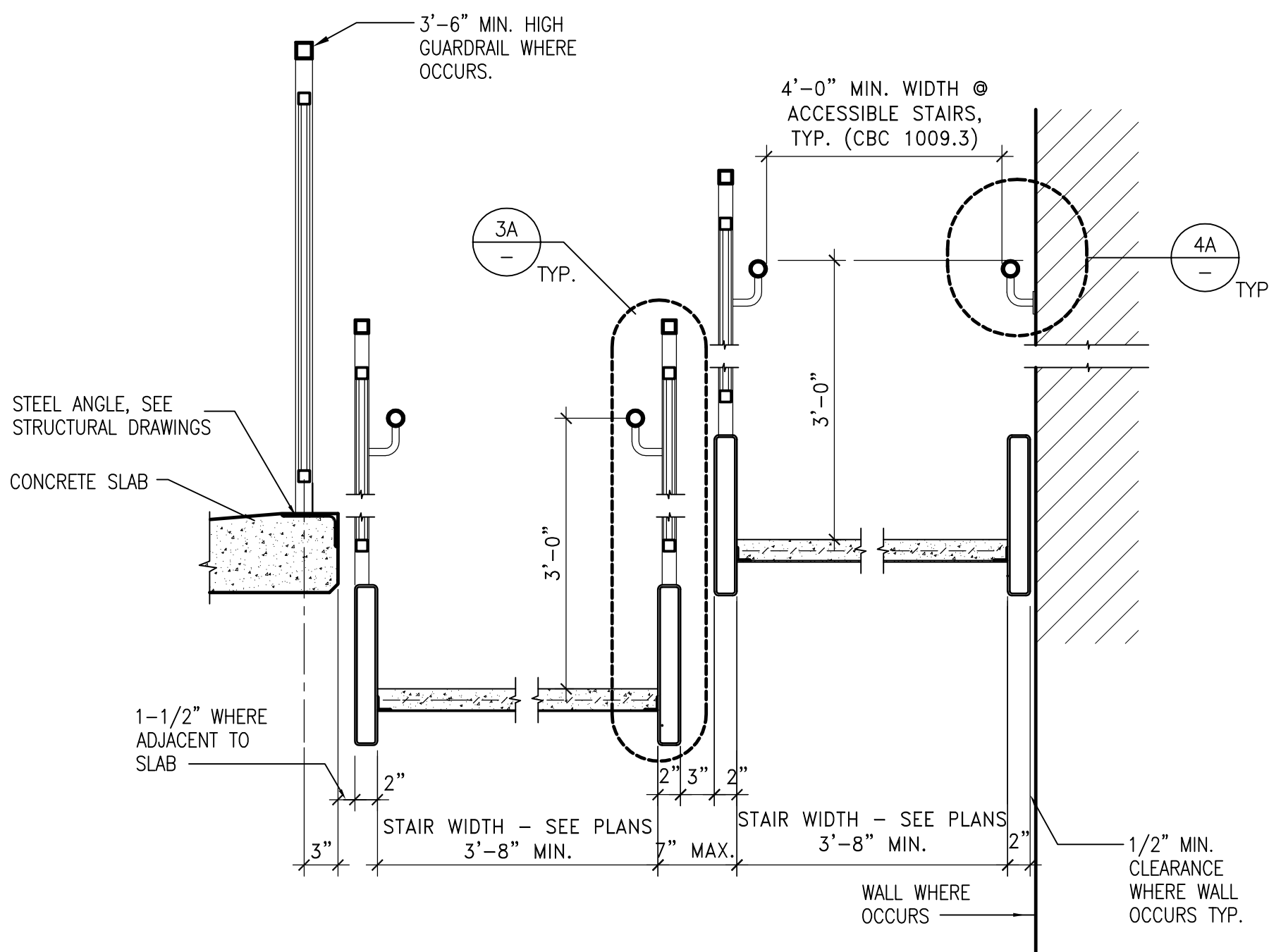
RAILING DETAIL

SCALE: 3" = 1'-0"



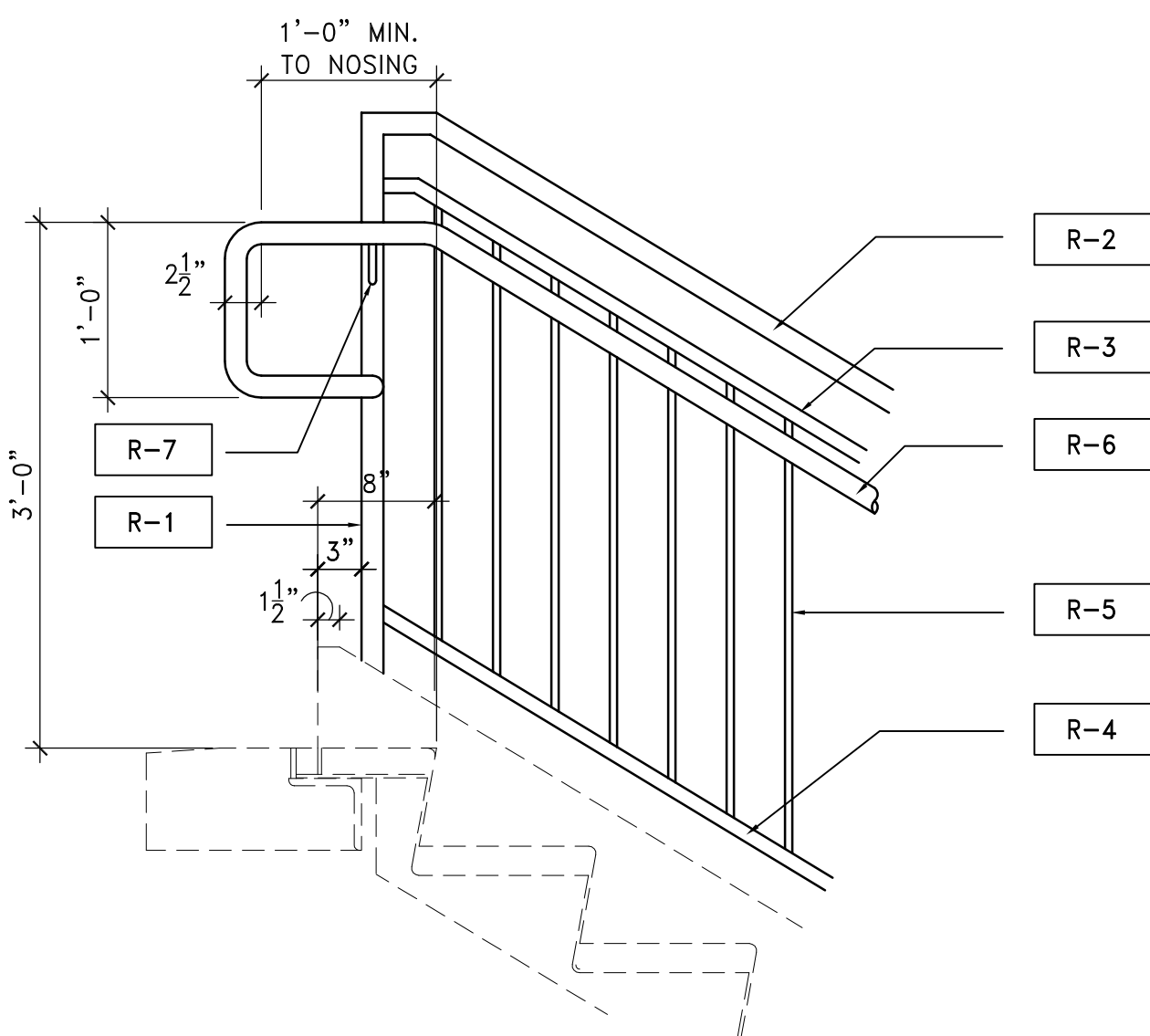
HANDRAIL DETAIL

SCALE: HALF



CROSS SECTION THROUGH STAIR & RAIL

SCALE: 1" = 1'-0"



DETAIL @ ROOF

SCALE: 1" = 1'-0"

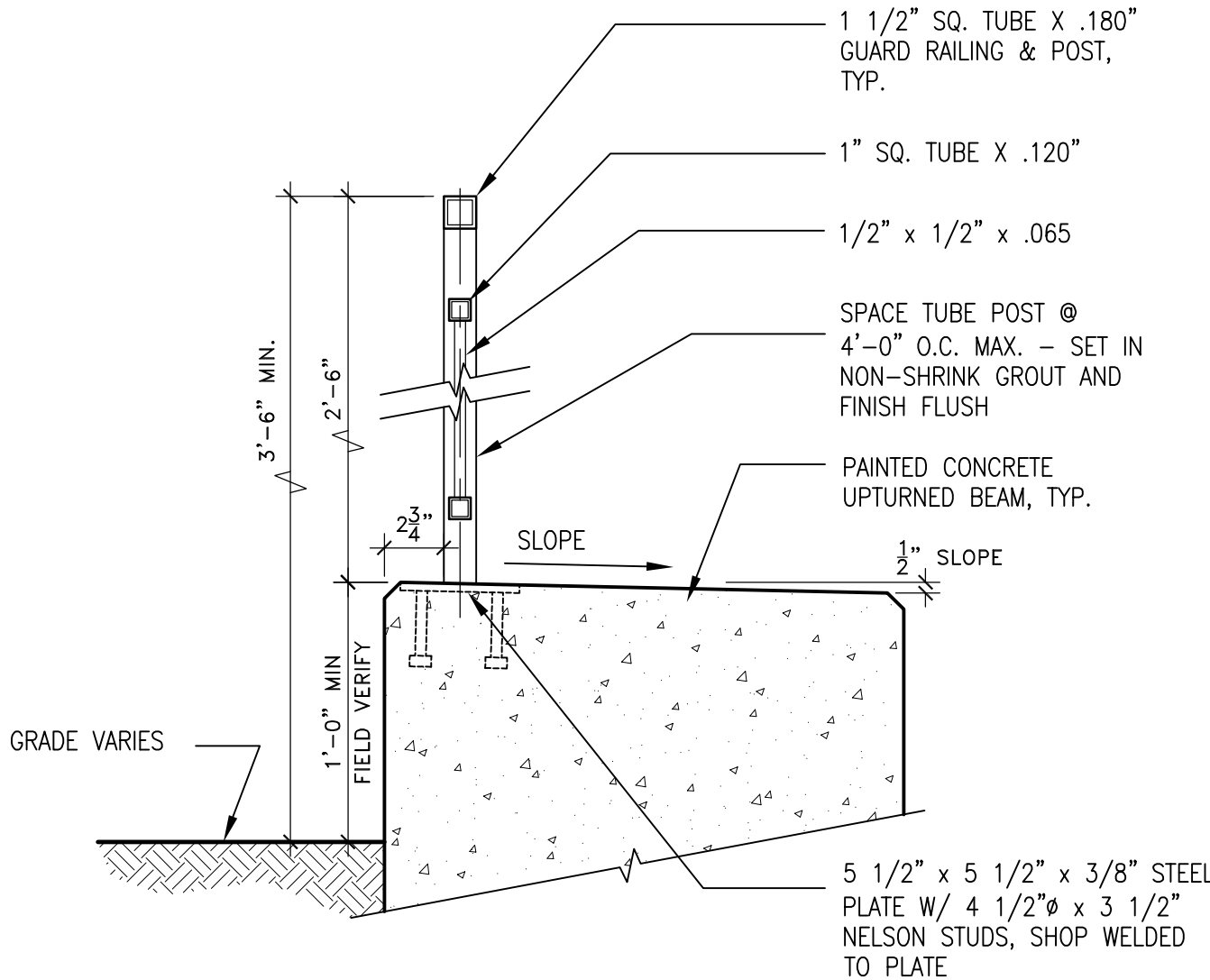
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RAIL SCHEDULE			
DESIGNATION	ITEM	REMARKS	FINISH
R-1	POST	1 1/2" X 1 1/2" X .180 STEEL TUBE EQUALLY SPACED @ 4'-0" O.C. MAX.	STEEL COATING SYSTEM. SEE SPECS.
R-2	TOP RAIL @ GUARDRAIL	1 1/2" X 1 1/2" X .180 STEEL TUBE	STEEL COATING SYSTEM. SEE SPECS.
R-3	TOP INTERMEDIATE RAIL	1" X 1" X .120 STEEL TUBE	STEEL COATING SYSTEM. SEE SPECS.
R-4	BOTTOM INTERMEDIATE RAIL	1" X 1" X .120 STEEL TUBE	STEEL COATING SYSTEM. SEE SPECS.
R-5	INFILL PICKETS	1/2" X 1/2" X .065 STEEL TUBES EQUALLY SPACED BETWEEN VERTICAL POSTS WITH LESS THAN 4" SPACE BETWEEN PICKETS	STEEL COATING SYSTEM. SEE SPECS.
R-6	HANDRAIL	1 1/4" NOMINAL (1 5/8" O.D.) STEEL PIPE (CBC 1133B.4.2.6.1)	STEEL COATING SYSTEM. SEE SPECS.
R-7	HANDRAIL CONNECTOR @ POST	5/8" STEEL ROD. PROVIDE @ EACH POST. SEE DETAIL 9C	STEEL COATING SYSTEM. SEE SPECS.
R-8	HANDRAIL CONNECTOR @ WALL	5/8" STEEL ROD. SEE DETAIL 9A OR 9B	STEEL COATING SYSTEM. SEE SPECS.
R-9	MOUNTING PLATE	1/8" STEEL PLATE	STEEL COATING SYSTEM. SEE SPECS.

GENERAL RAIL NOTES

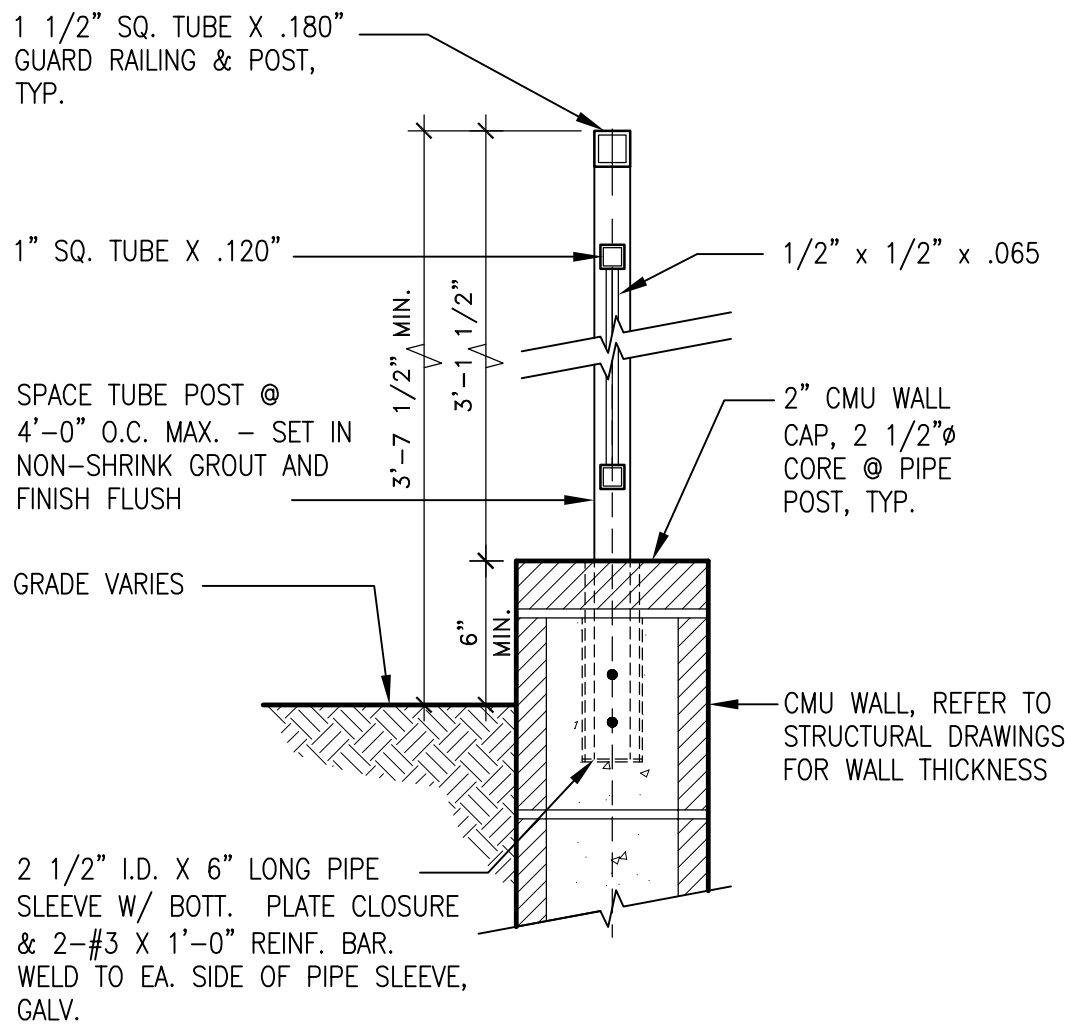
1.
- WELD & GRIND SMOOTH ALL JOINTS & SHARP EDGES BEFORE APPLYING FINISH.
2.
- MAINTAIN CIRCULAR CROSS SECTION @ PIPE RAIL BENDS.
3.
- HOT-DIPPED GALVANIZE AFTER FABRICATION



PIPE DETAIL

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

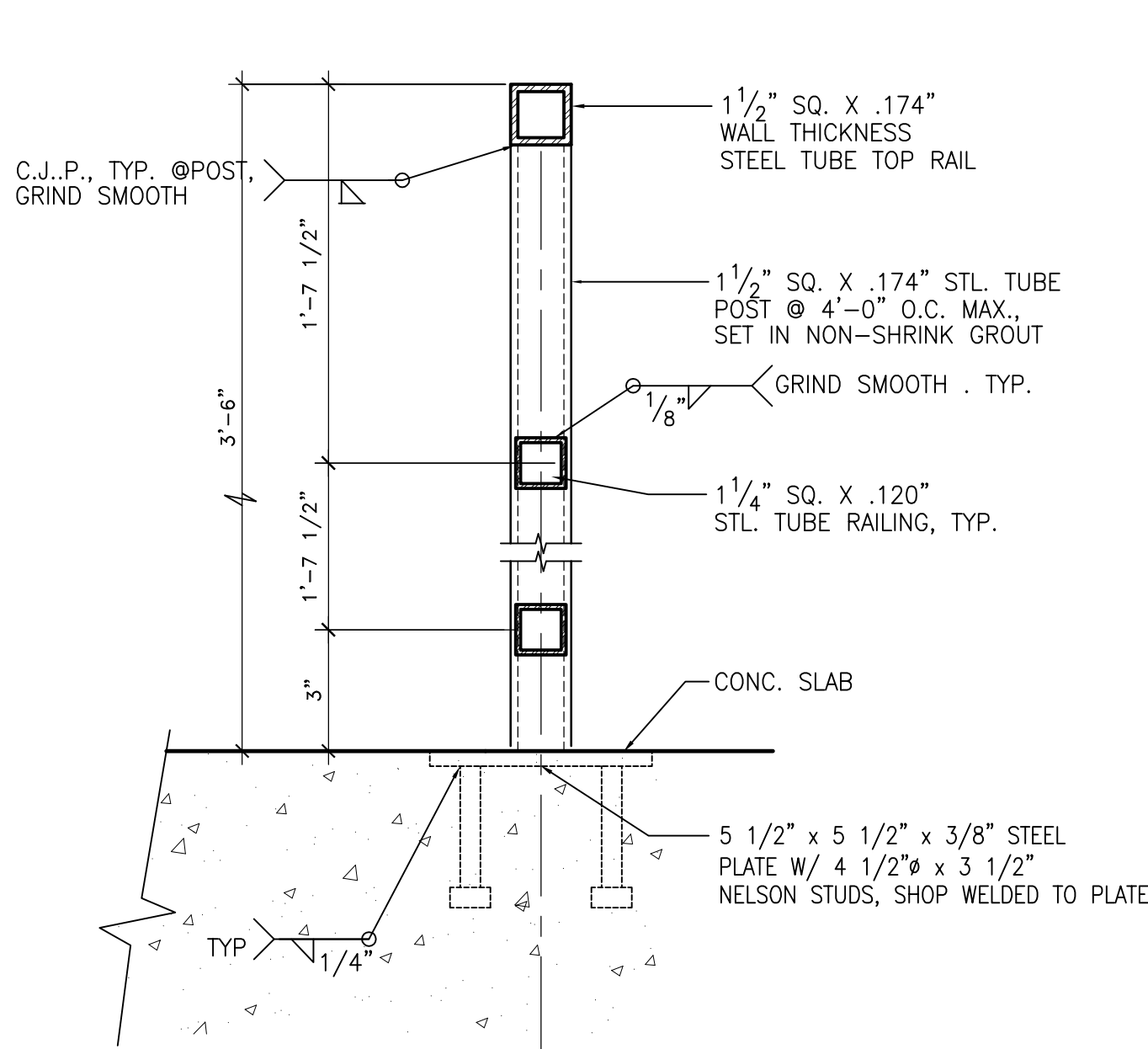
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PIPE SLEEVE DETAIL

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

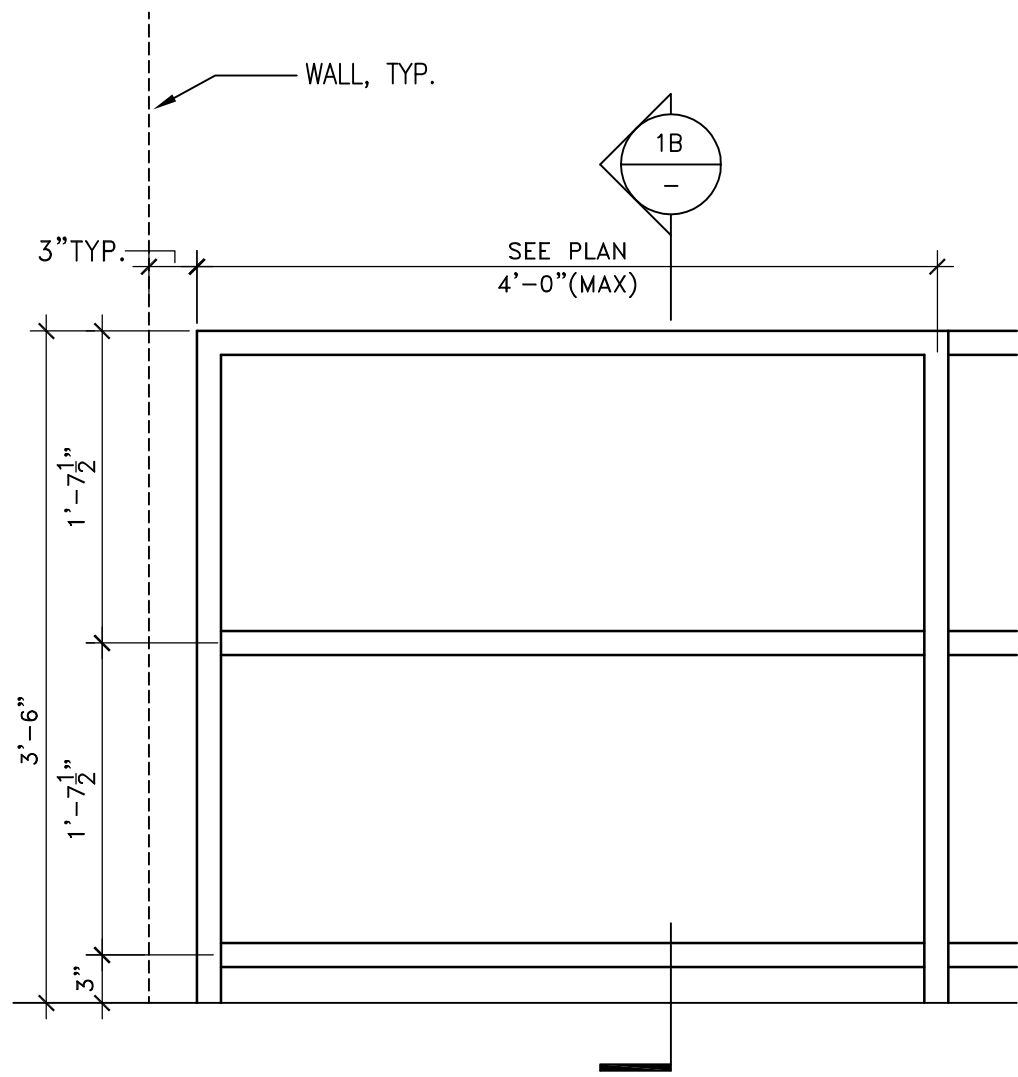
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SECTION

SCALE: 3"=1'-0"

1B



ELEVATION

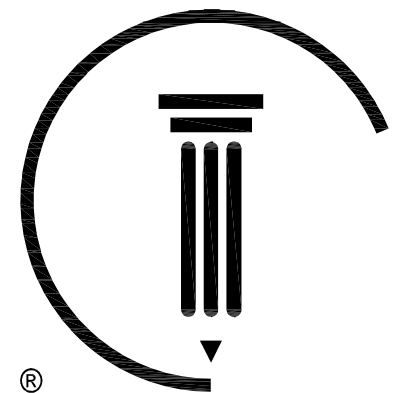
SCALE: 1" = 1'-0"

1A

STEEL GUARDRAIL AT GROUND LEVEL

SCALE: AS SHOWN

1



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TYPICAL STAIR RAIL  
DETAILS

Sheet Number

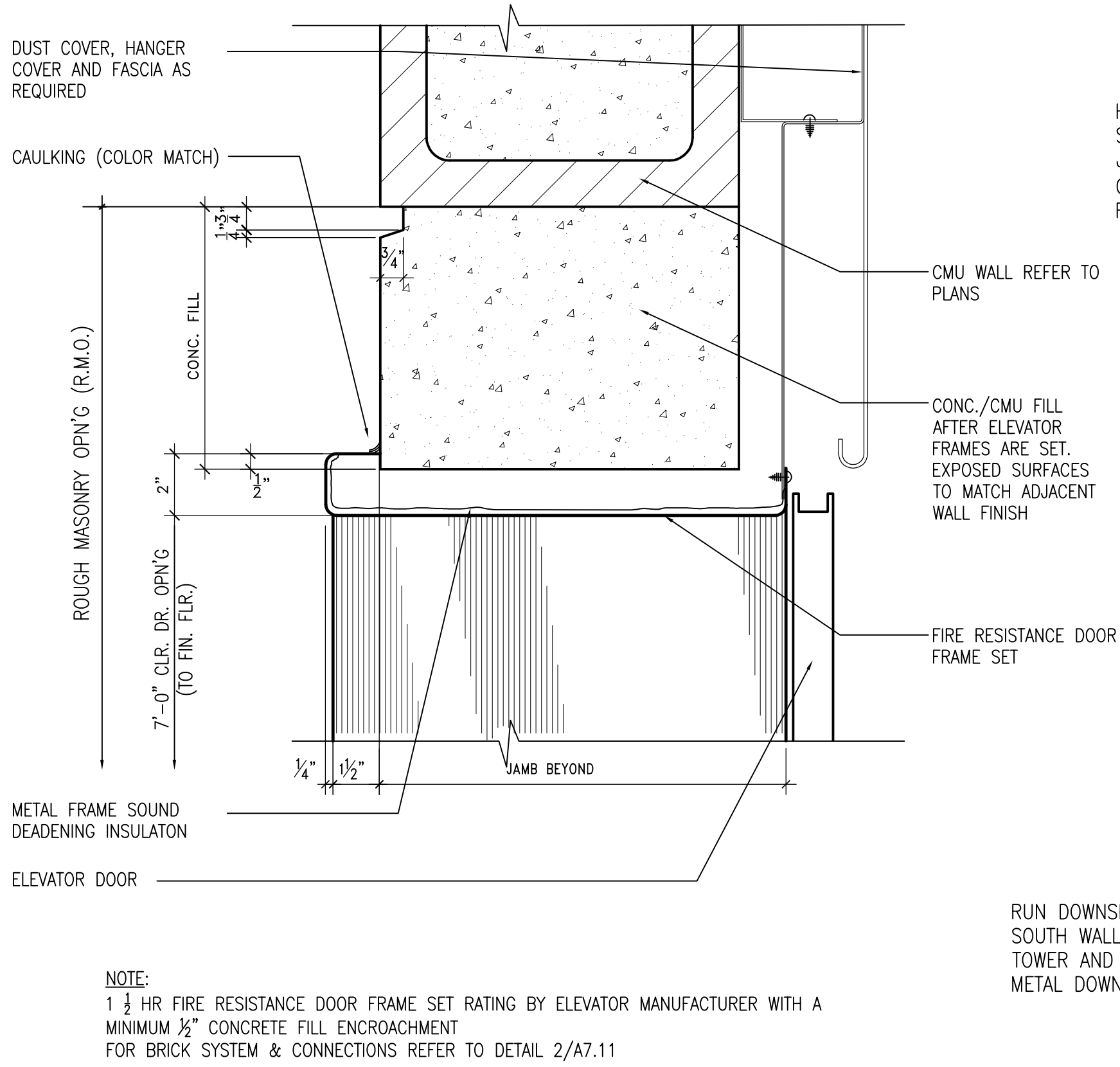
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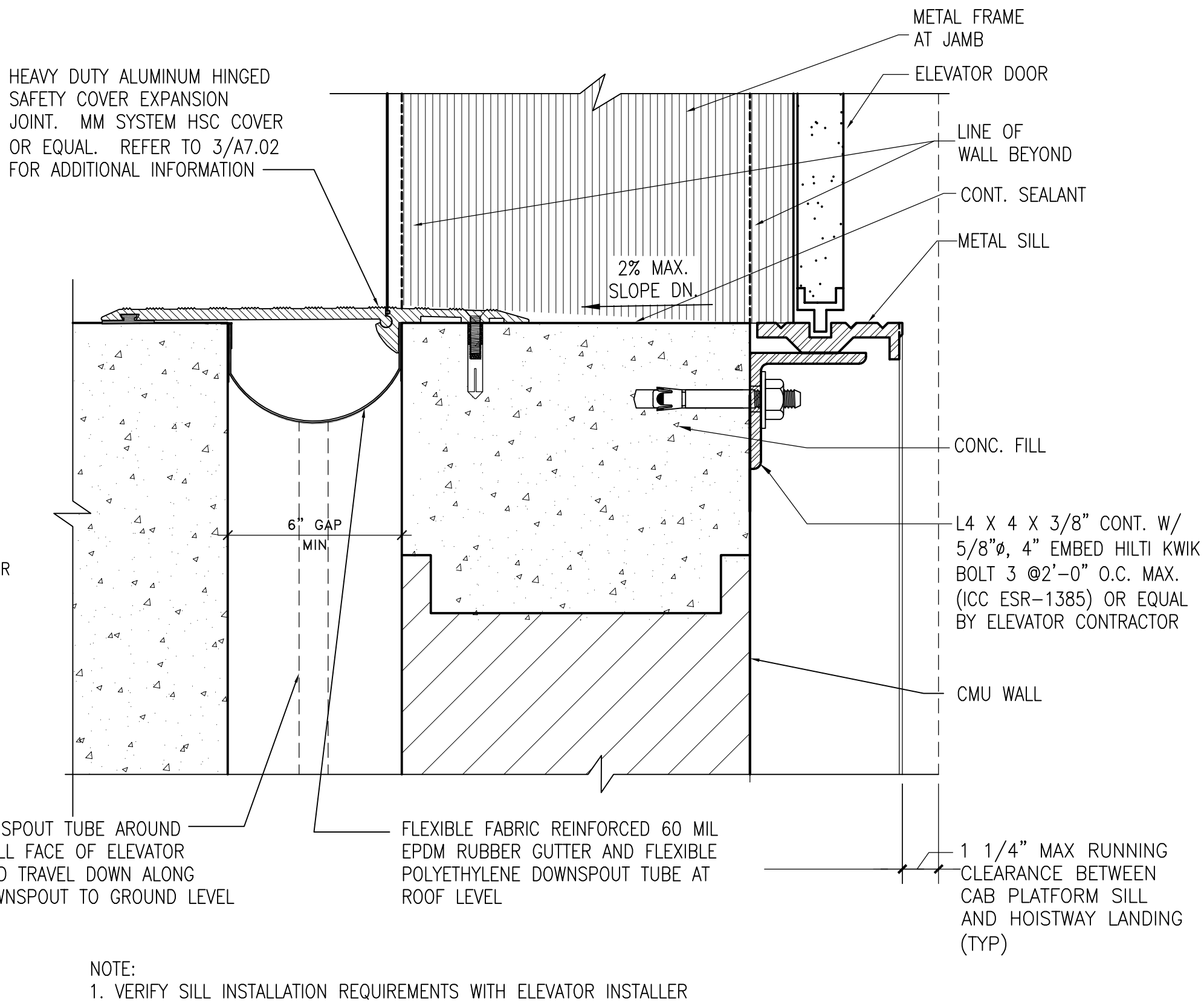
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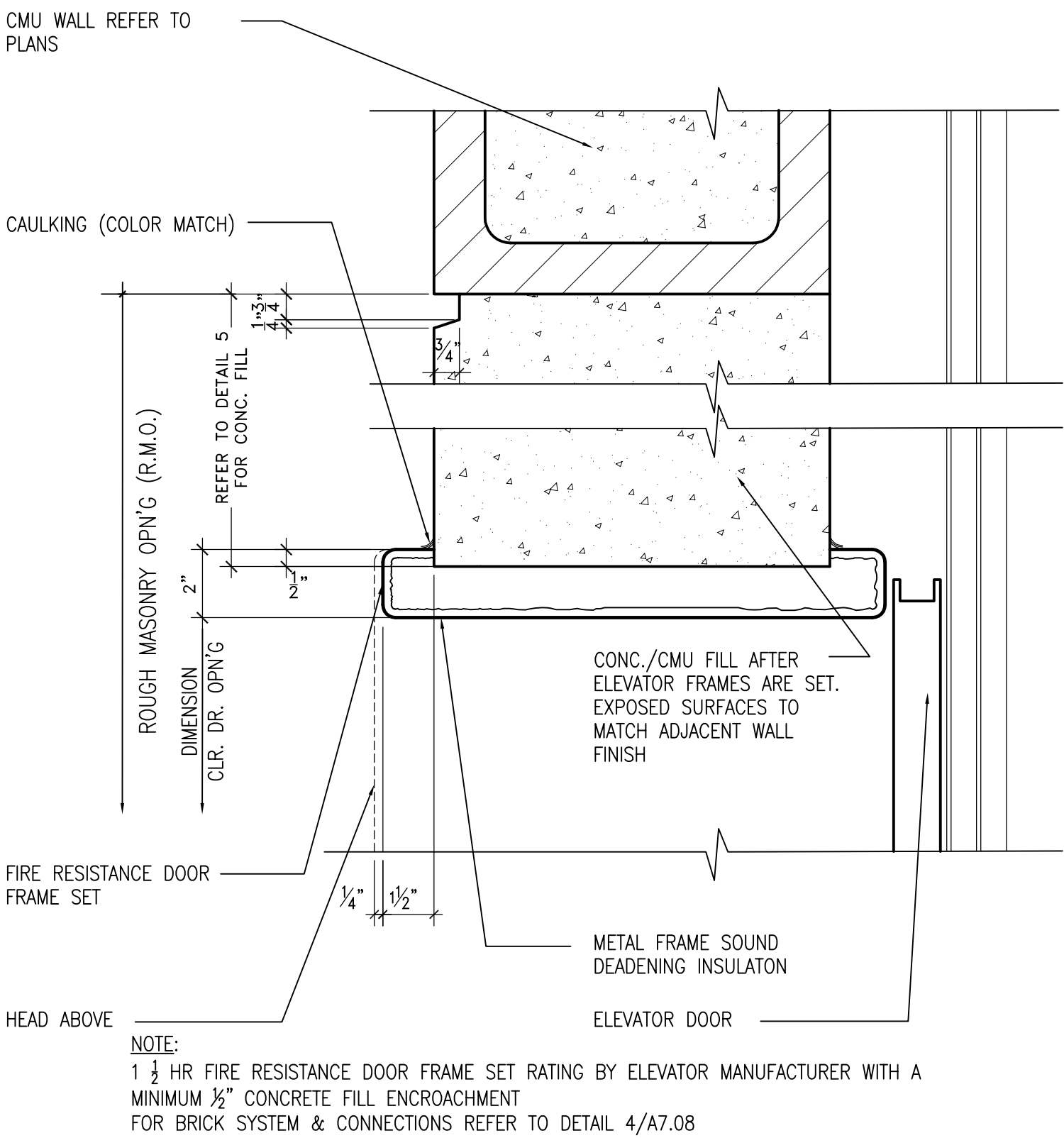
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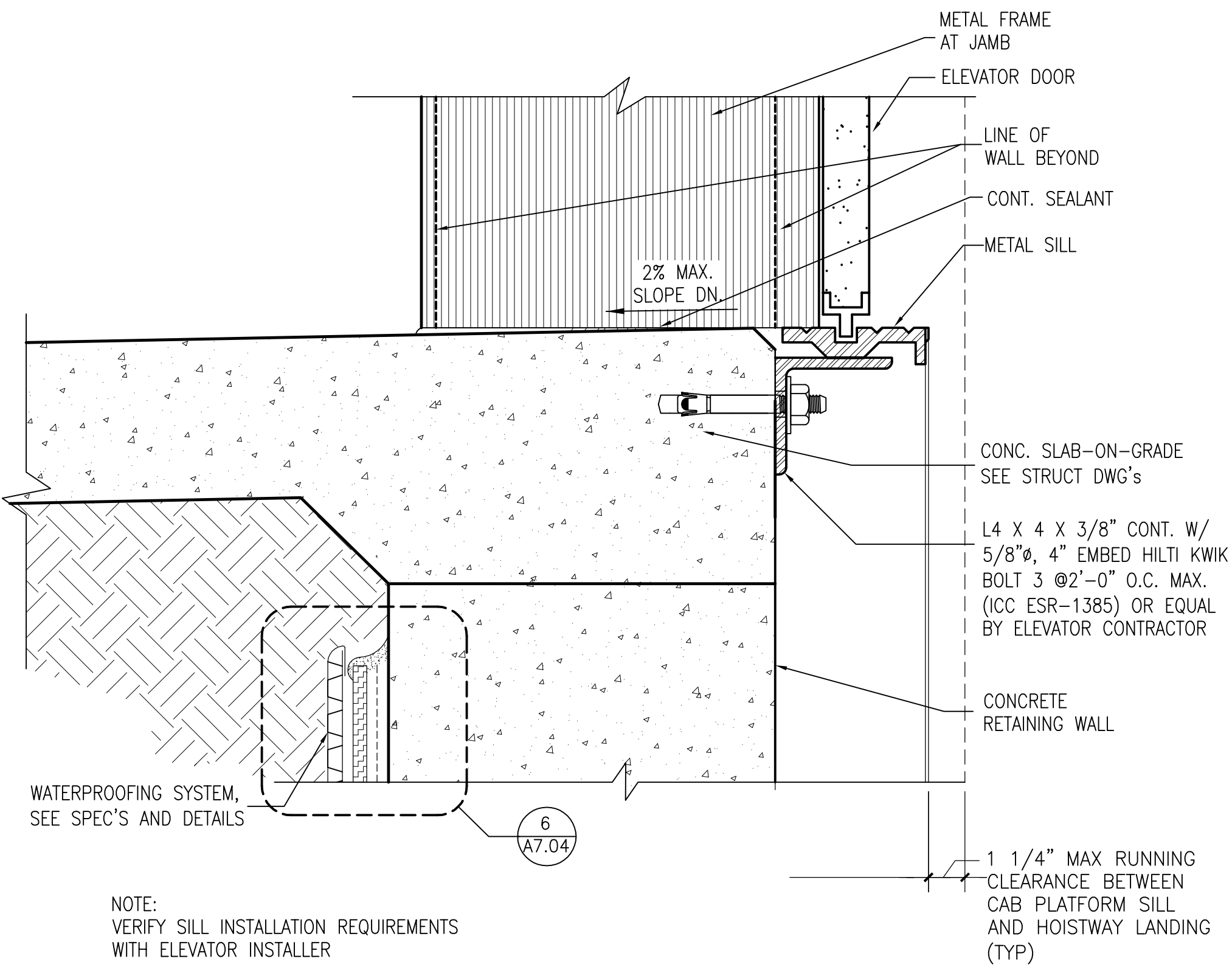
ELEVATOR DOOR FRAME (HEAD DETAIL) SCALE: 3'=1'-0" 6



ELEVATOR DOOR FRAME EXP. JOINT AT SILL SCALE: 3'=1'-0" 4



ELEVATOR DOOR FRAME (JAMB DETAIL) SCALE: 3'=1'-0" 5



ELEVATOR DOOR FRAME (SILL DETAIL) SCALE: 3'=1'-0" 3

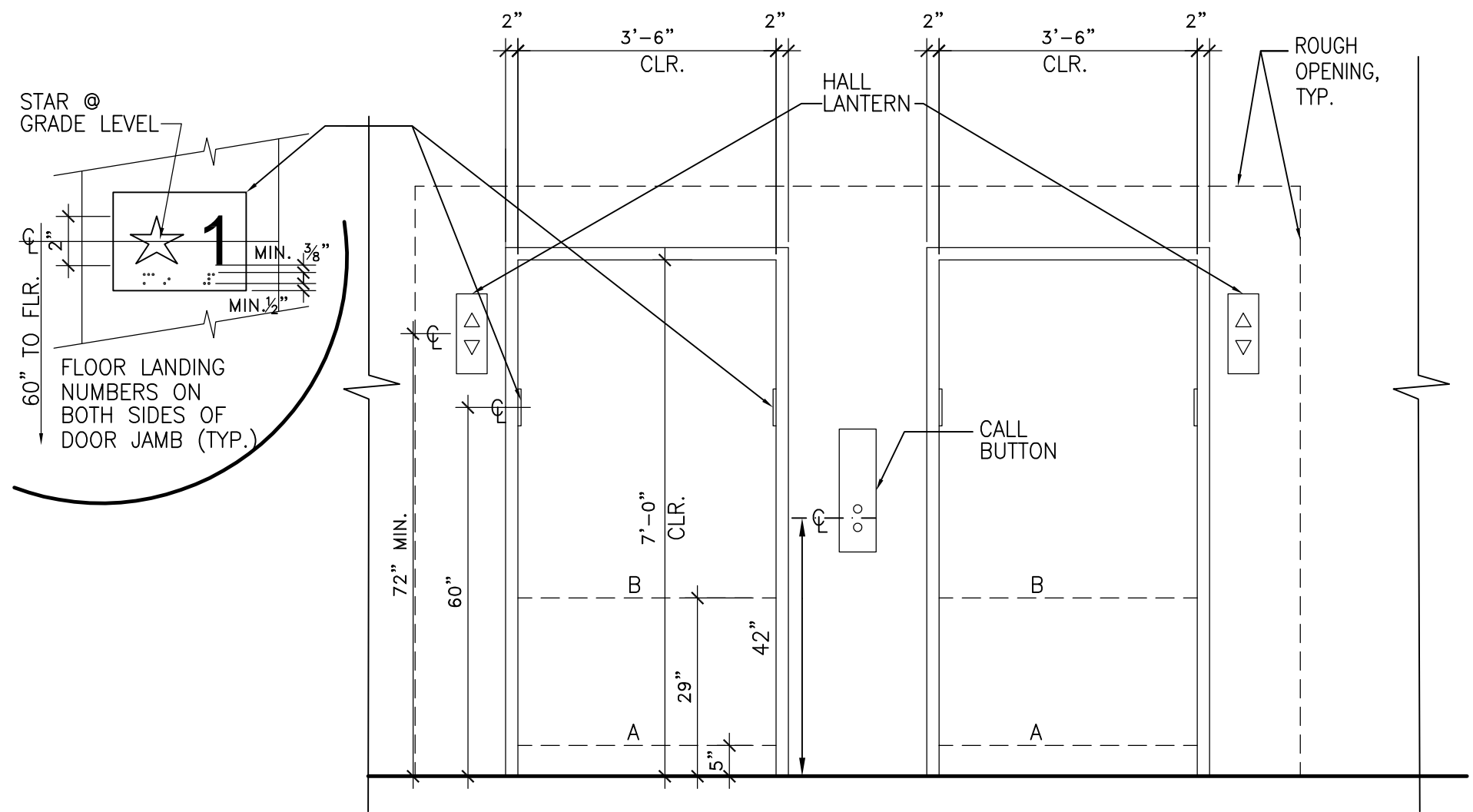
DOOR SCHEDULE														
NO.	LOCATION	DOOR		DOOR FRAME						HARDWARE				REMARKS
		TYPE	MAT'L	OP'NG DIM.	FRMA	TRMA	JAMB	HEAD	MALL	SILL	DOOR LOCK	DOOR LATCH	DOOR STOP	
101	STORAGE ROOM	1	HM	1 3/4"	3'-0"	7'-0"	MTL	-	1	1	01	HD	-	
102	ELECTRICAL ROOM	1	HM	1 3/4"	4'-0"	7'-0"	MTL	-	1	1	02	HD	-	
103	BIKE ROOM	7	CL	-	3'-0"	7'-0"	STL	-	-	-	03	-	-	
104	I.T. ROOM	1	HM	1 3/4"	3'-0"	7'-0"	MTL	-	1	1	04	HD	-	
201	ELEVATOR CONTROL ROOM	1	HM	1 3/4"	3'-0"	7'-0"	MTL	-	1	1	05	HD	-	

**LEGEND**

AL - ALUMINUM  
CL - CHAIN LINK  
HM - HOLLOW METAL  
MTL - METAL  
STL - STEEL  
- SEE SPECIFICATIONS

**DOOR TYPES**

1 SIGN LOCATION  
2 NOT USED  
3 NOT USED  
4 NOT USED  
5 NOT USED  
6 NOT USED  
7 NOT USED

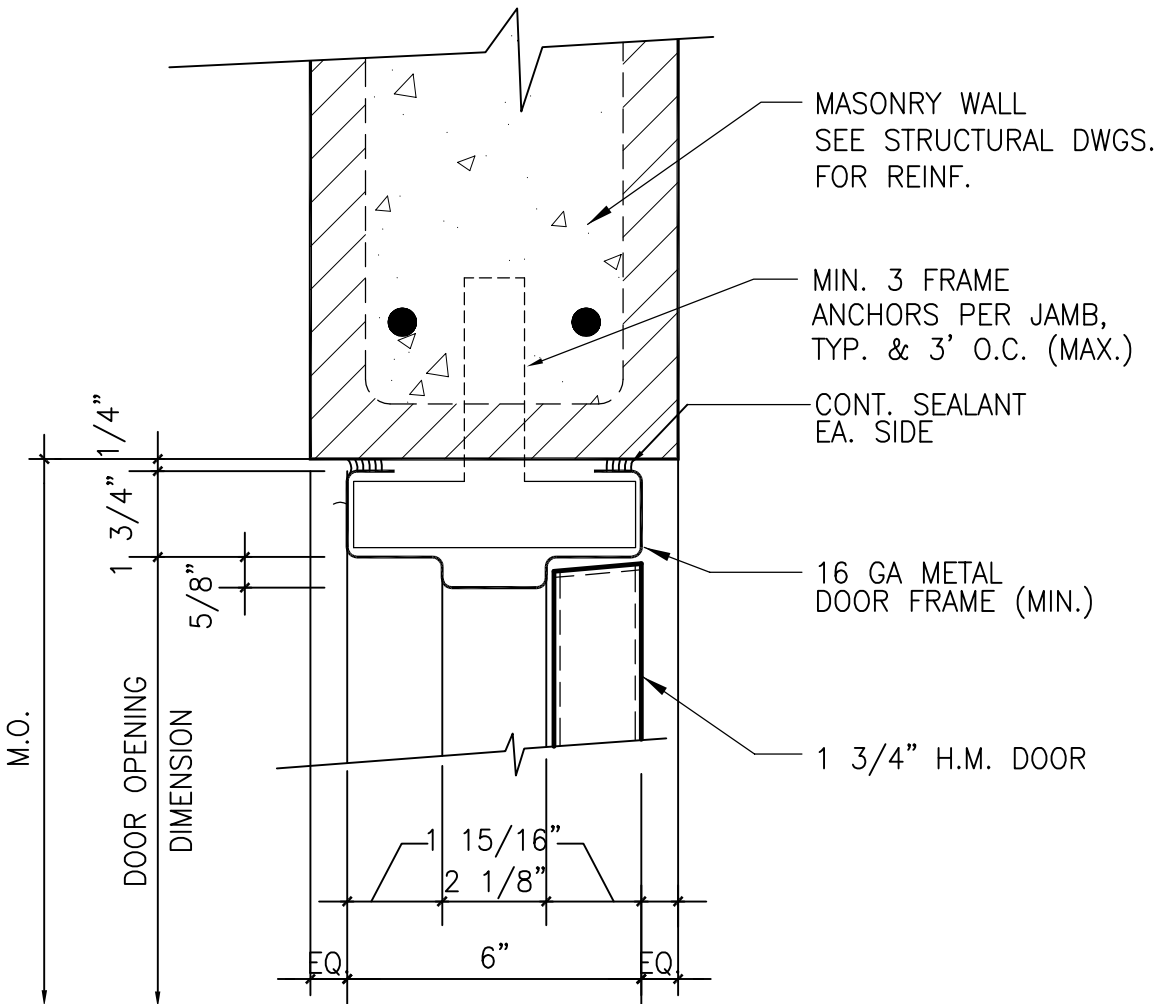


NOTE:  
•THE AUTOMATIC DOOR REOPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE "A" OR LINE "B". LINE "A" AND LINE "B" REPRESENT THE VERTICAL LOCATION OF THE MIN. DOOR REOPENING DEVICE NOT REQUIRING CONTACT.

•REFER TO SPECIFICATIONS & OTHER DRAWINGS FOR ADD'L SPECIFIC REQUIREMENTS

•THIS DIAGRAM ILLUSTRATES ONLY MINIMUM ADA AND ACCESSIBLE CODE REQUIREMENTS AND IT IS INTENDED ONLY AS AID FOR BUILDING DESIGN AND CONSTRUCTION. REFER TO SPECIFICATIONS & OTHER DRAWINGS FOR ADDITIONAL SPECIFIC REQUIREMENT.

HOISTWAY AND ELEVATOR ENTRANCE - ELEVATION SCALE: 1/2"=1'-0" 2



DOOR JAMB DETAIL (HEAD SIM.) SCALE: 3" = 1'-0" 1



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DOOR SCHEDULE  
AND DETAILS

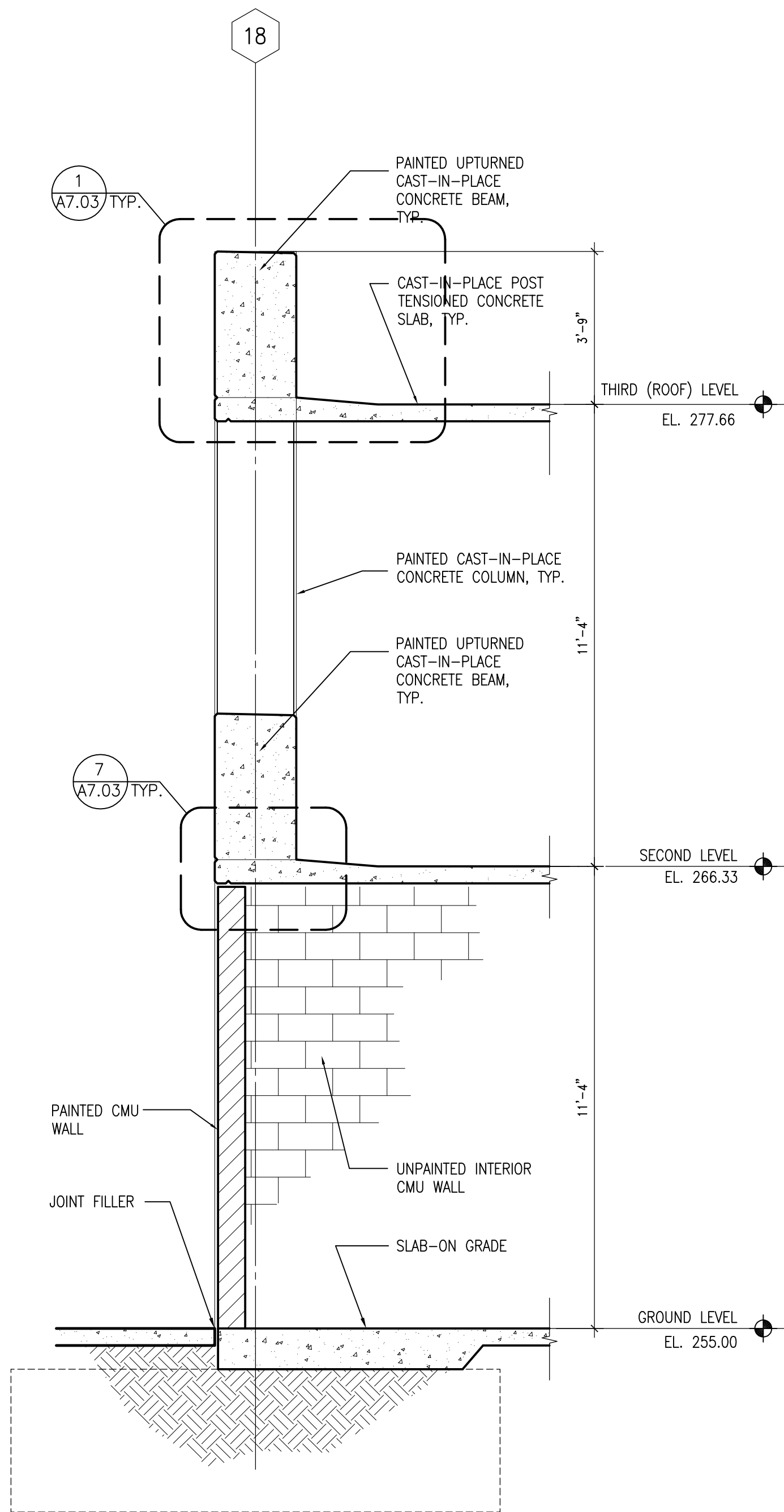
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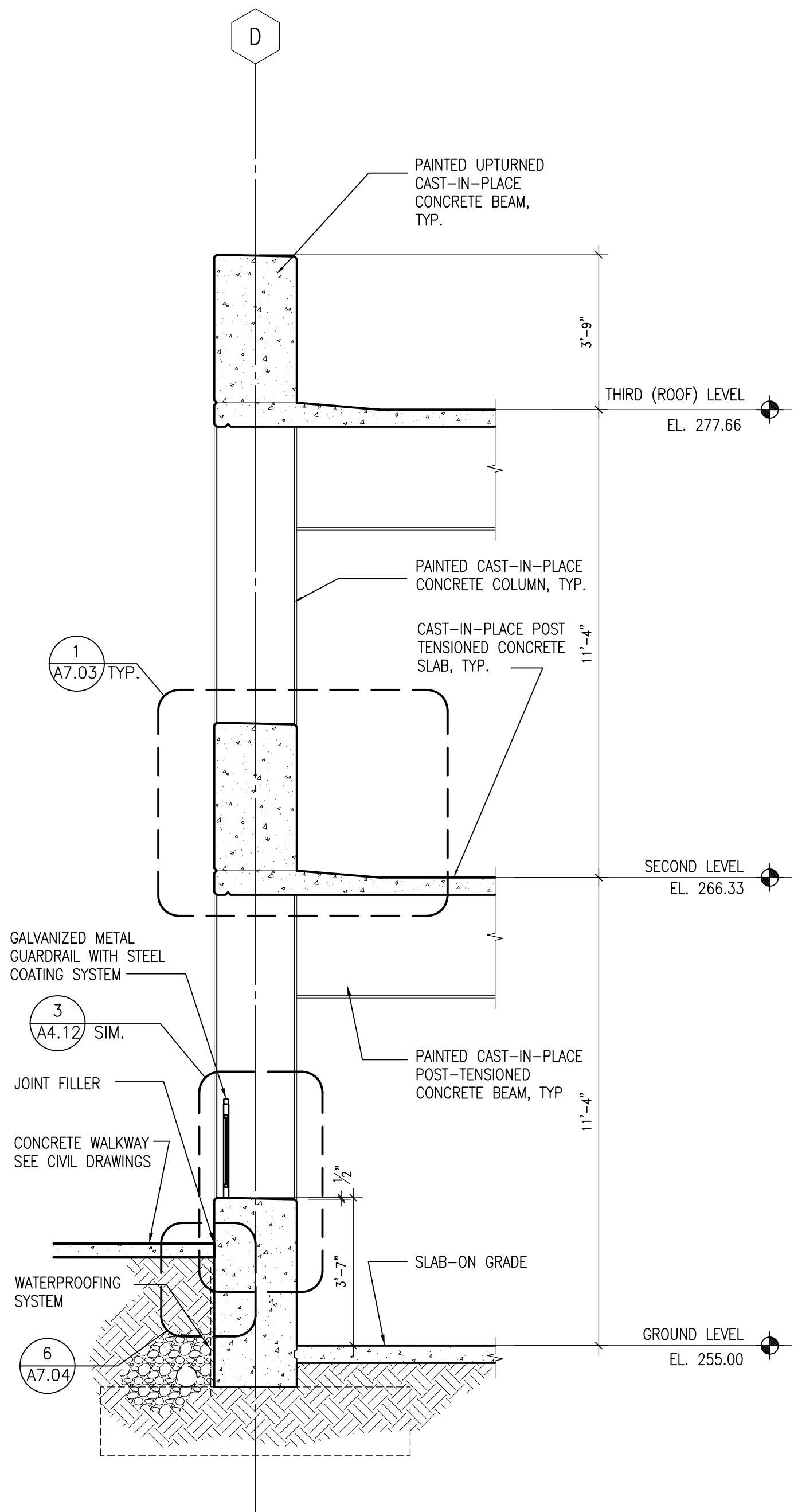




WALL SECTION (EAST SIDE  
BETWEEN GRIDLINES C & D)

SCALE: 3/8"= 1'-0"

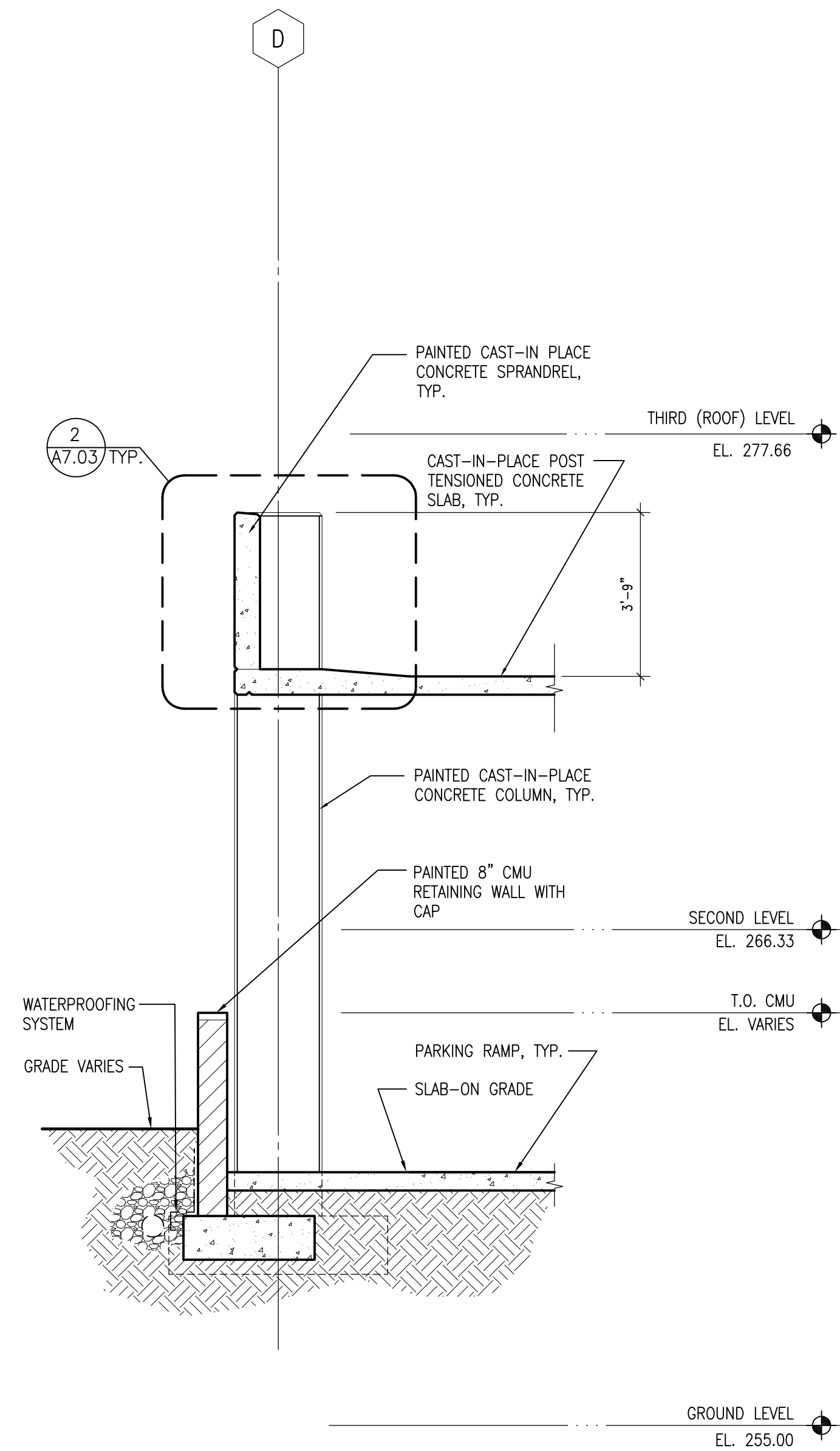
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WALL SECTION (NORTH SIDE  
BETWEEN GRIDLINES 15 & 16)

SCALE: 3/8"= 1'-0"

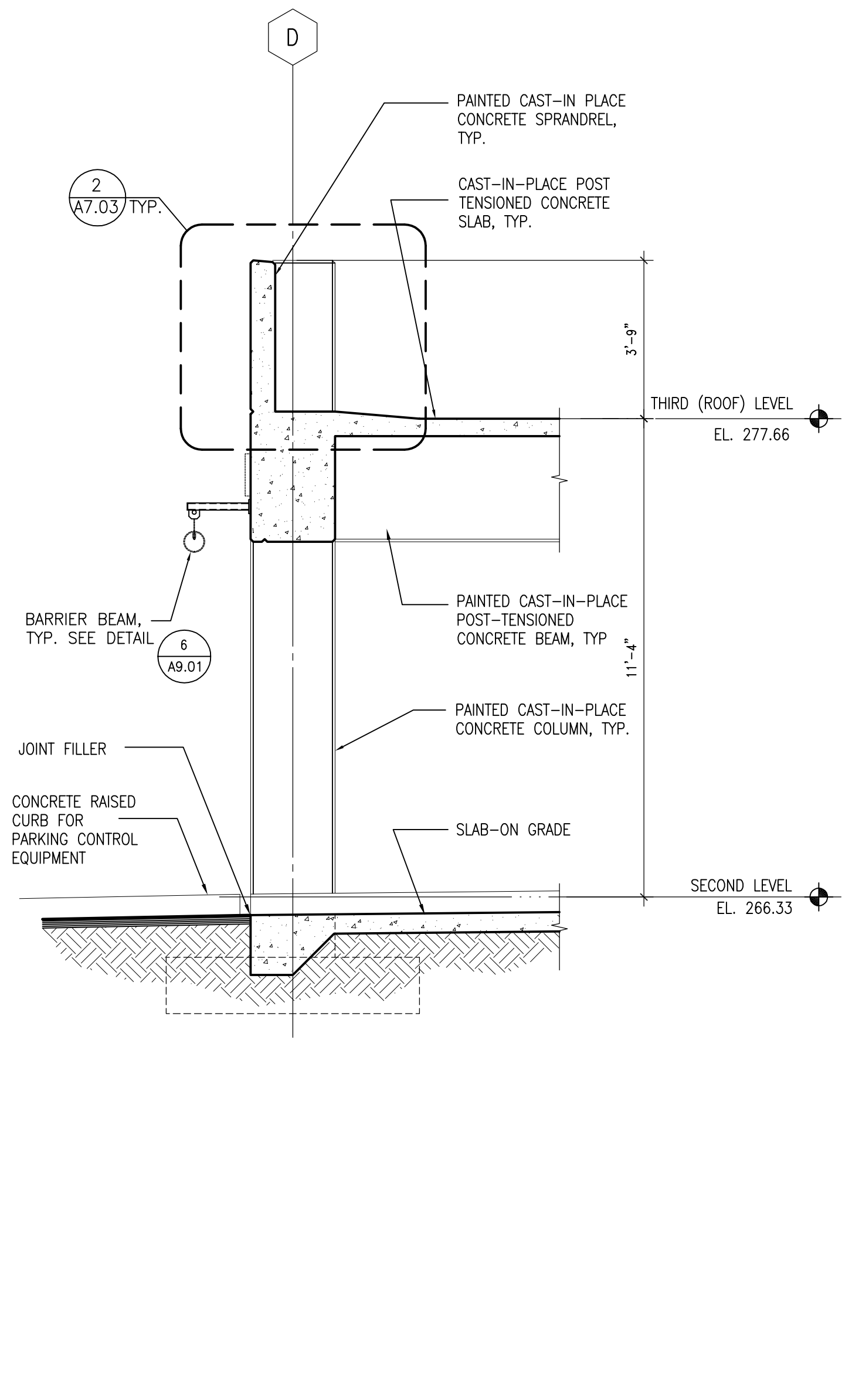
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WALL SECTION (NORTH SIDE  
BETWEEN GRIDLINES 9 & 10)

SCALE: 3/8"= 1'-0"

2



WALL SECTION (NORTH SIDE  
BETWEEN GRIDLINES 2 & 3)

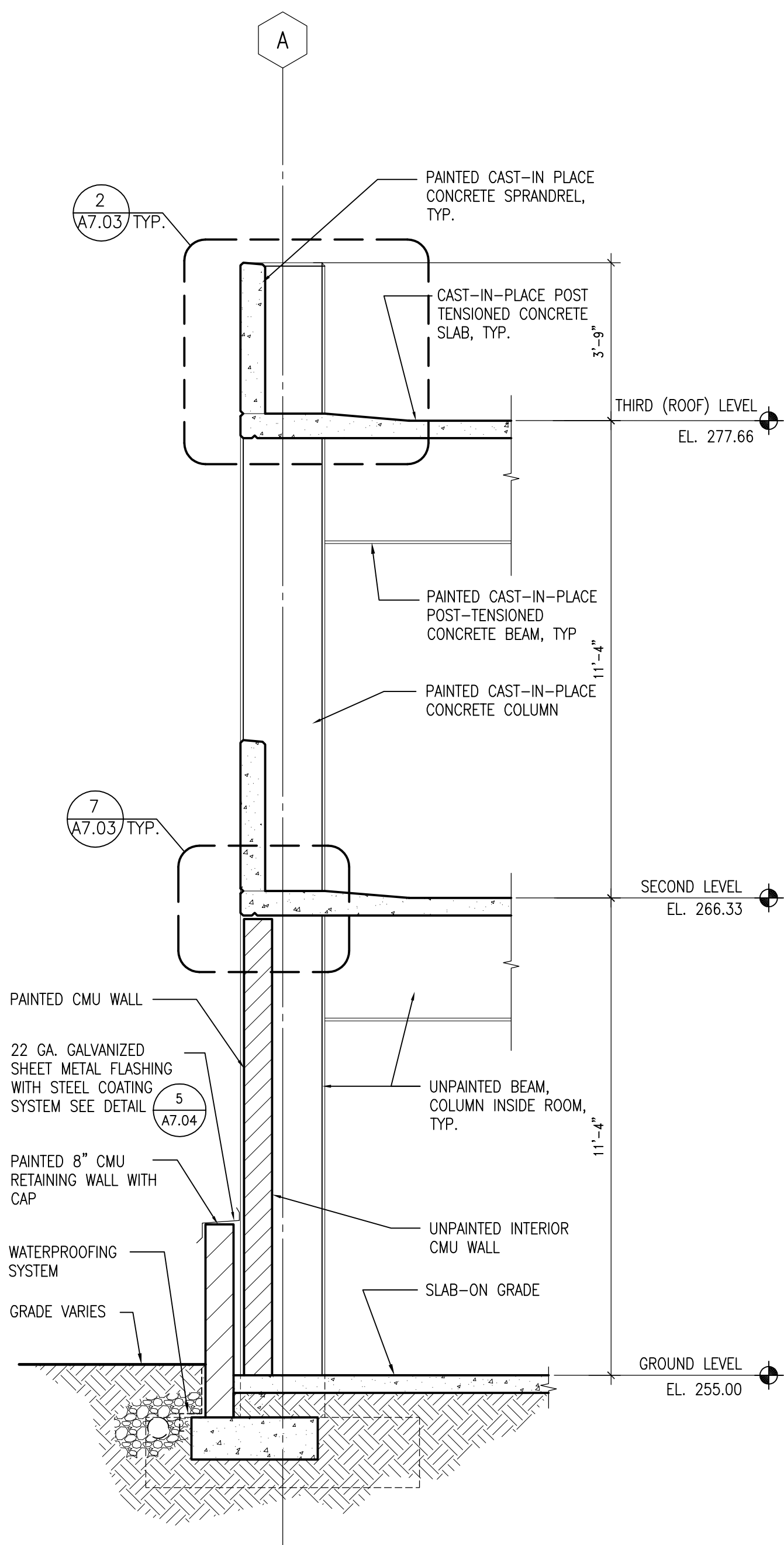
SCALE: 3/8"= 1'-0"

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NOTE:  
RETAINING WALL FOLLOWS SLOPE OF GRADE

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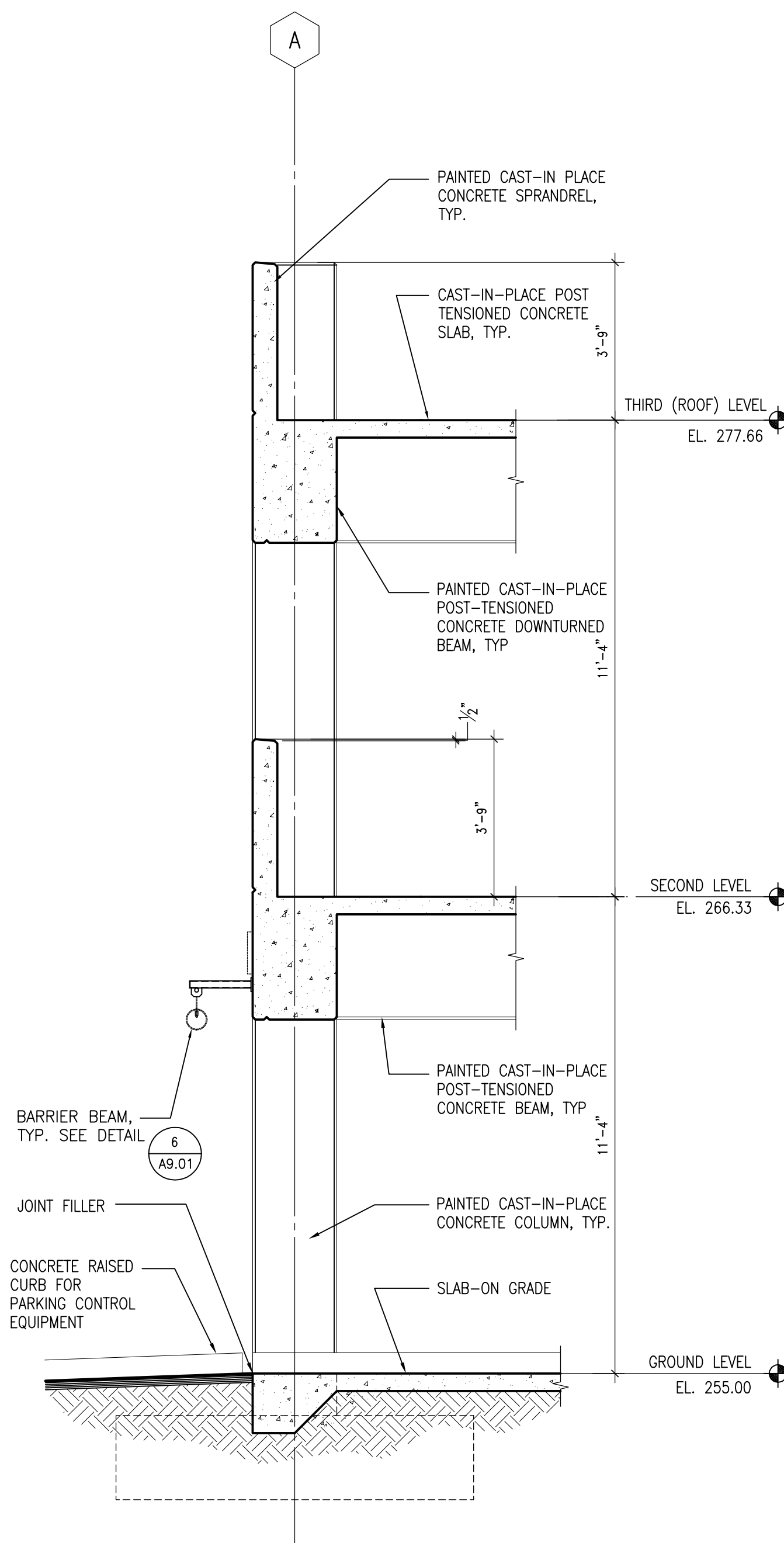




**WALL SECTION (SOUTH SIDE  
BETWEEN GRIDLINES 13 & 14**

SCALE: 3/8"= 1'-0"

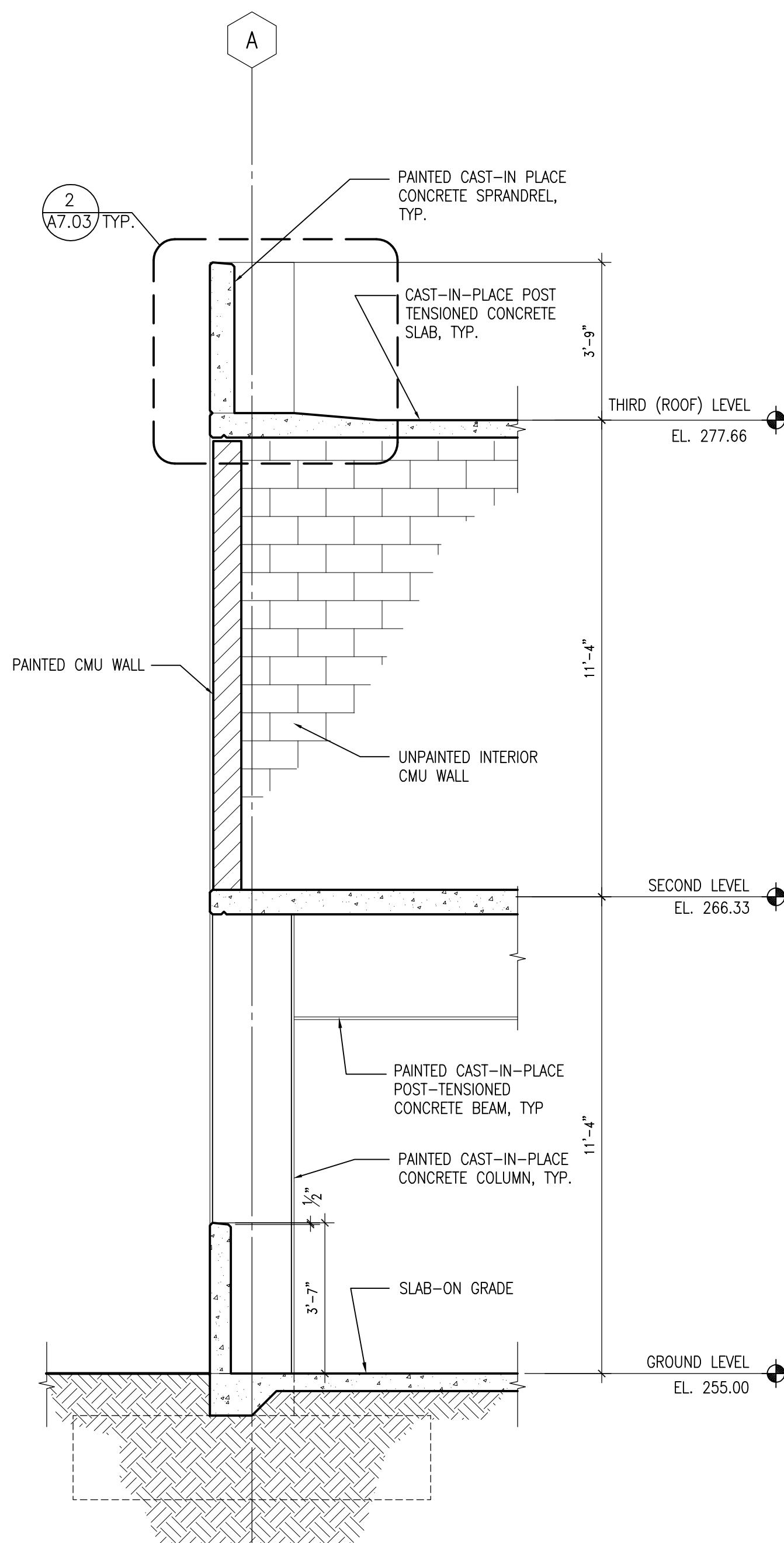
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**WALL SECTION (SOUTH SIDE  
BETWEEN GRIDLINES 16 & 17**

SCALE: 3/8"= 1'-0"

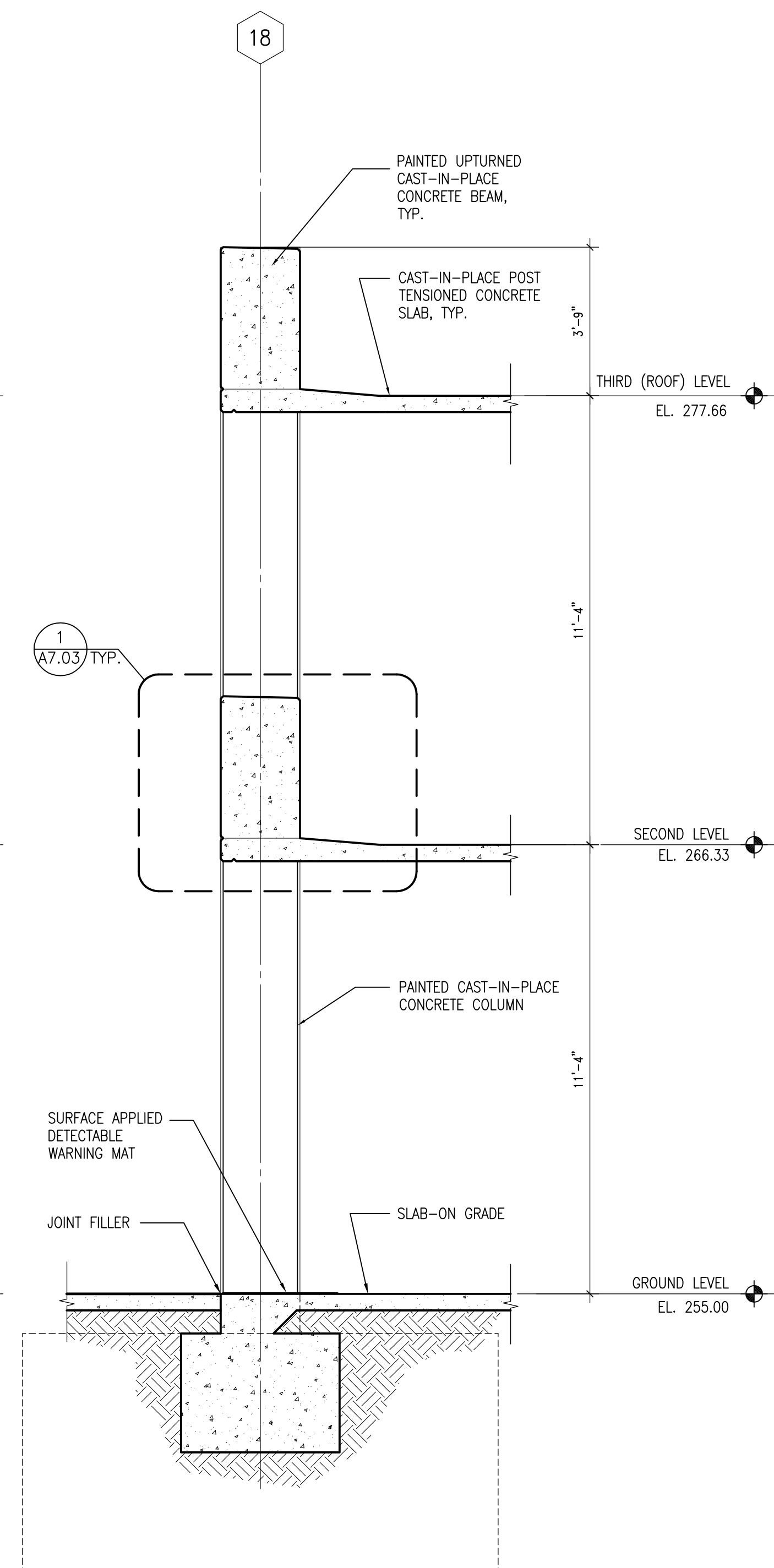
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**WALL SECTION (SOUTH SIDE  
BETWEEN GRIDLINES 17 & 18**

SCALE: 3/8"= 1'-0"

2



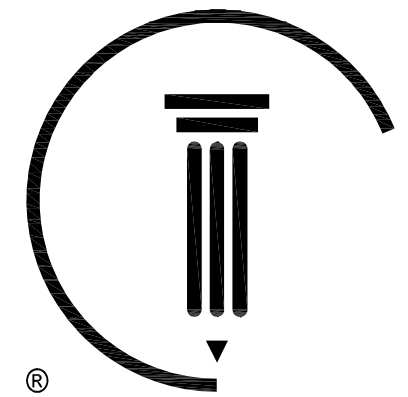
**WALL SECTION (EAST SIDE  
BETWEEN GRIDLINES C & B**

SCALE: 3/8"= 1'-0"

1

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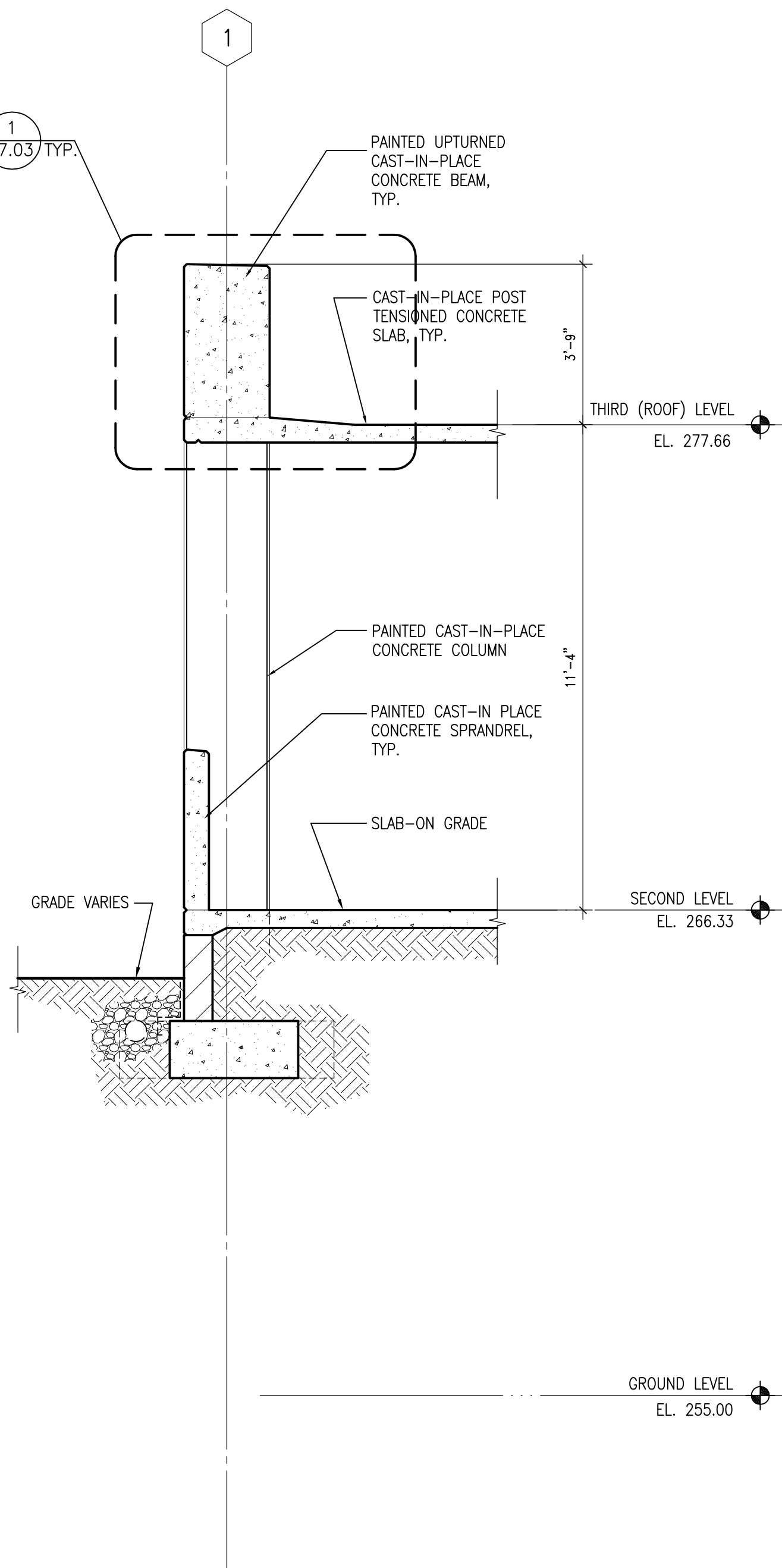
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WALL SECTIONS

Sheet Number

A6.03

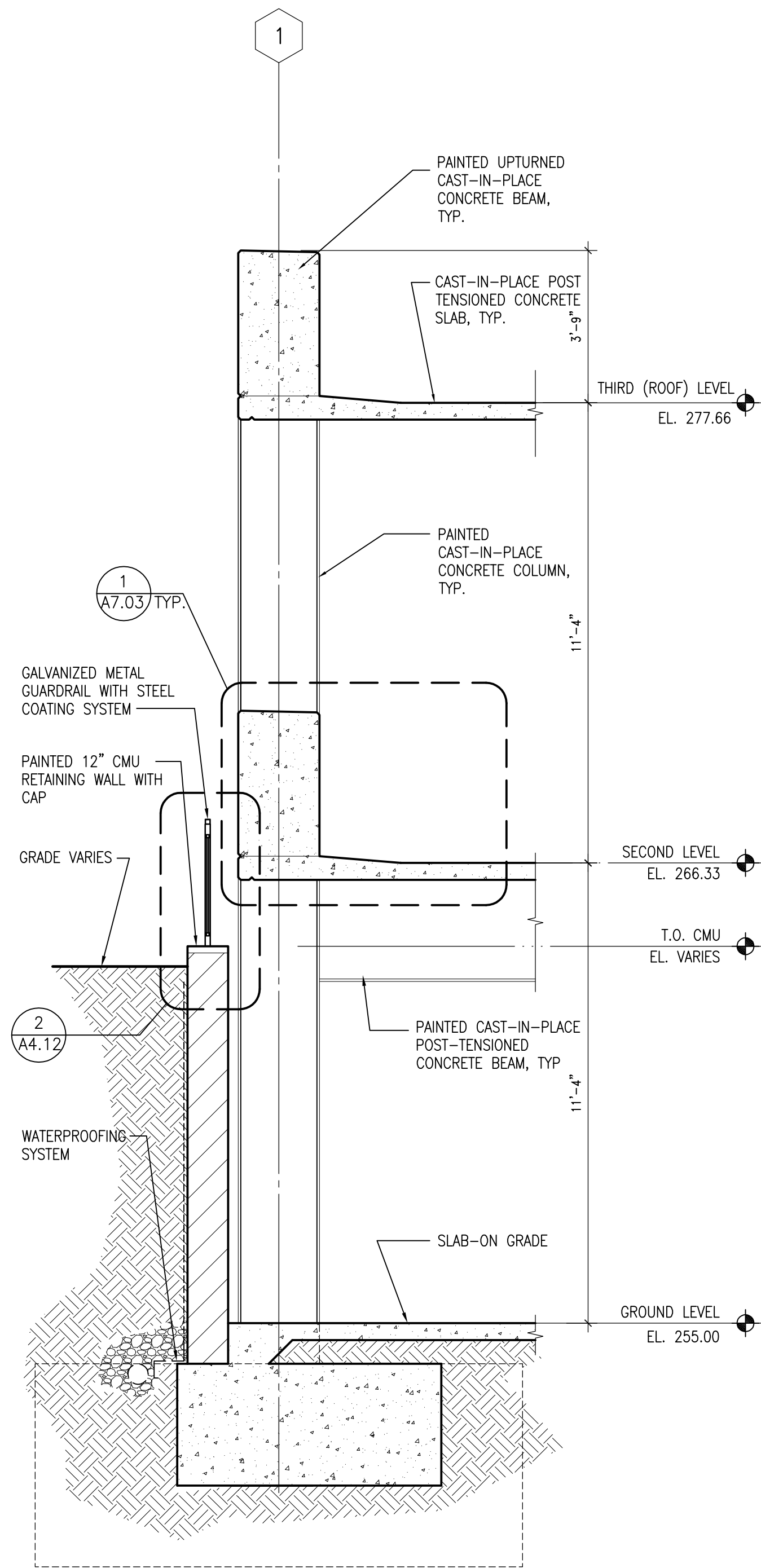
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WALL SECTION (WEST SIDE  
BETWEEN GRIDLINES C & D

SCALE: 3/8"= 1'-0"

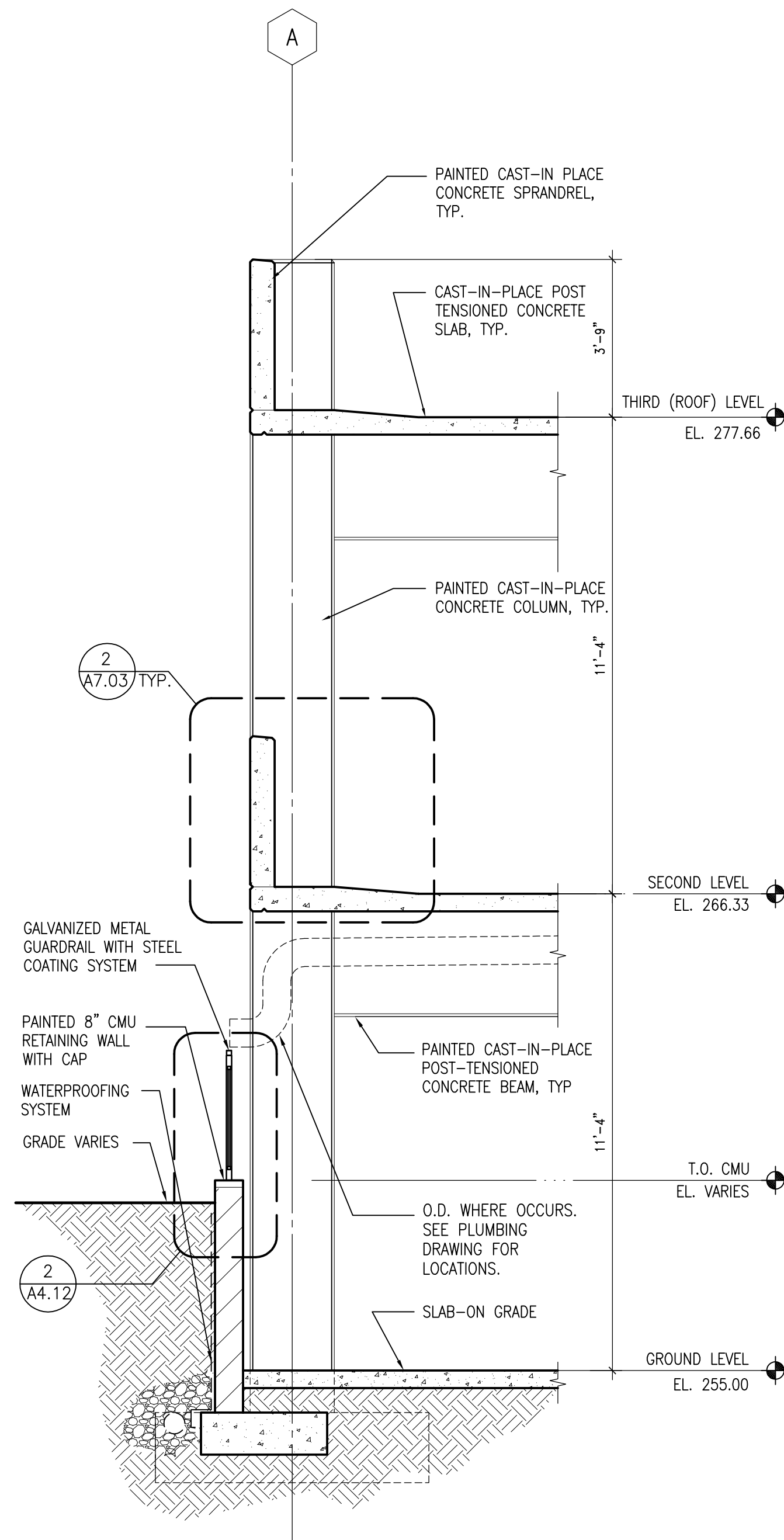
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WALL SECTION (WEST SIDE  
BETWEEN GRIDLINES C & B

SCALE: 3/8"= 1'-0"

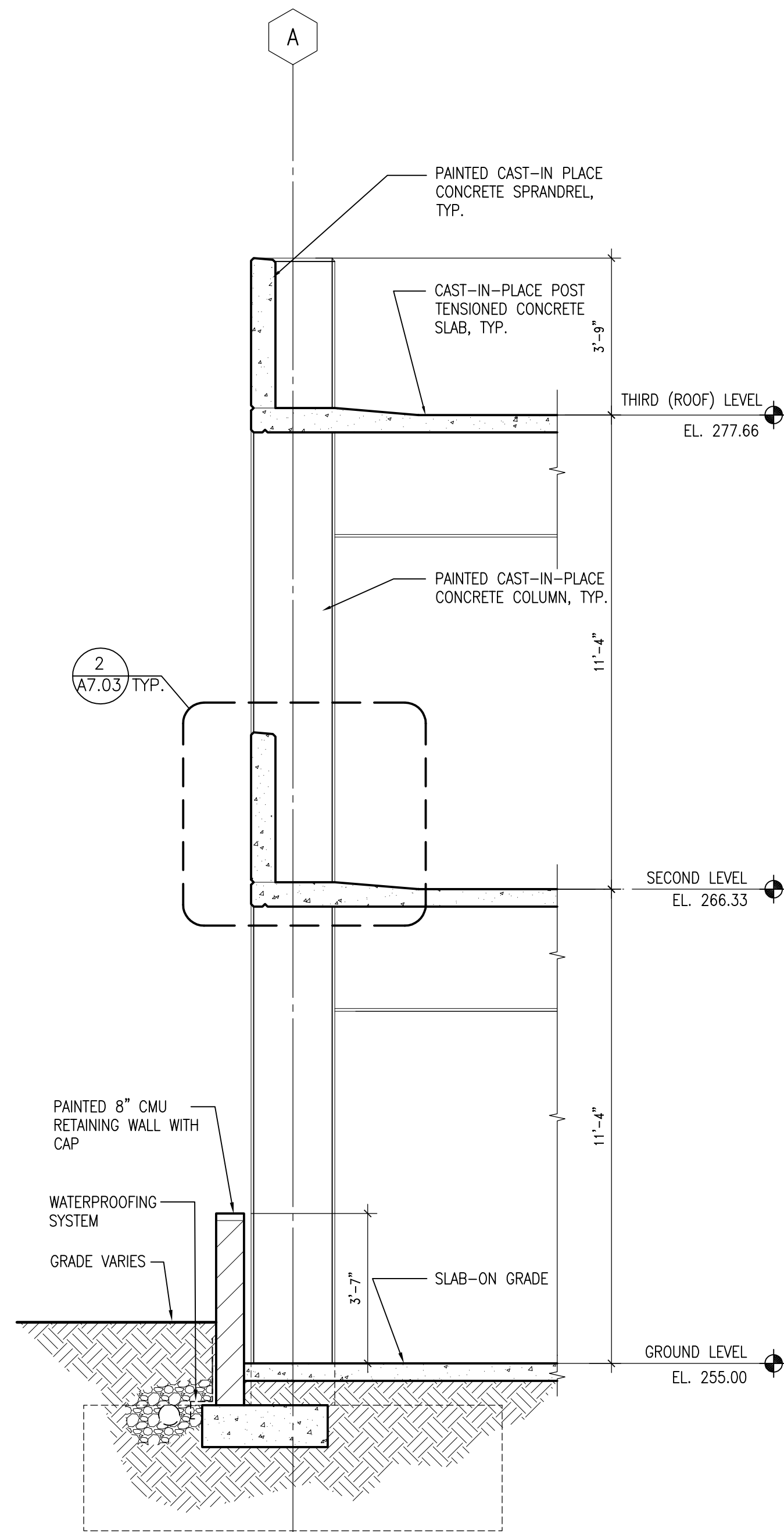
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WALL SECTION (SOUTH SIDE  
BETWEEN GRIDLINES 4 & 5

SCALE: 3/8"= 1'-0"

2



WALL SECTION (SOUTH SIDE  
BETWEEN GRIDLINES 11 & 12

SCALE: 3/8"= 1'-0"

1

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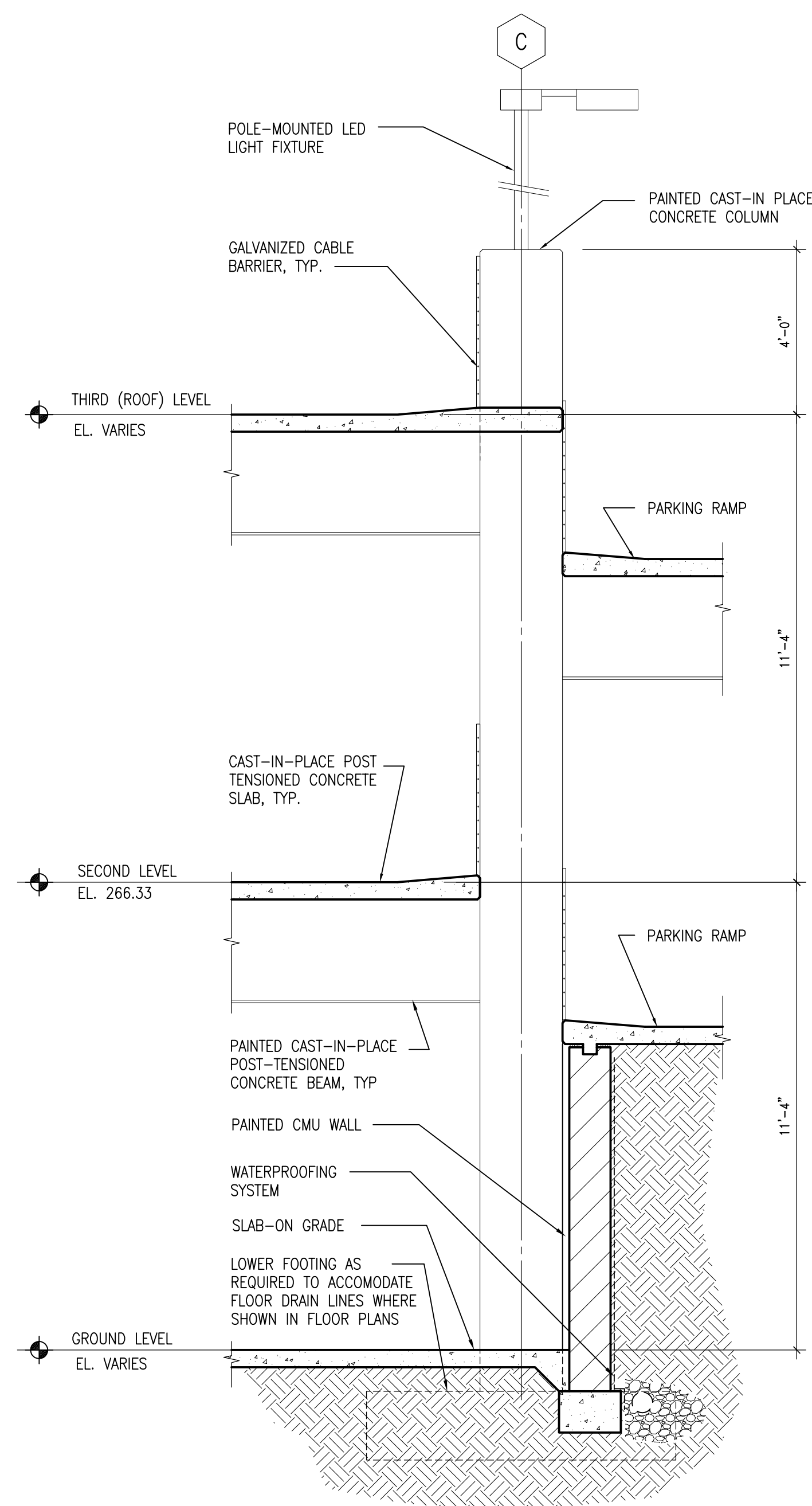
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## WALL SECTIONS

Sheet Number

## A6.04

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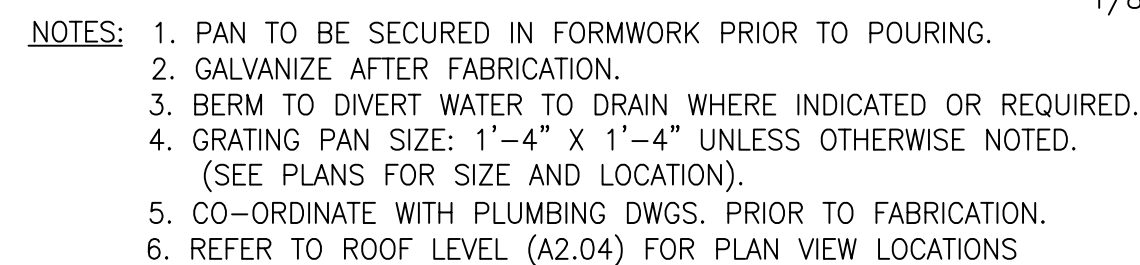
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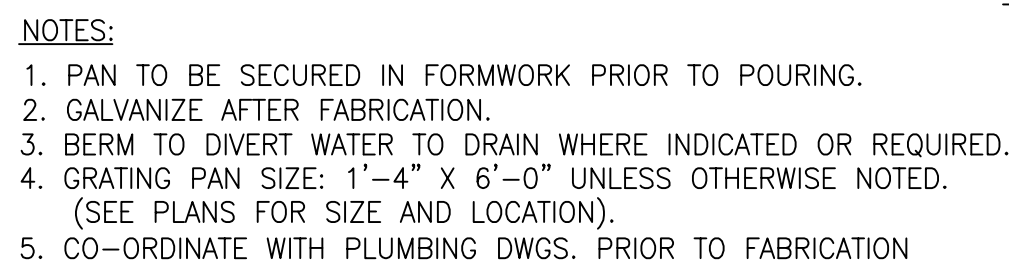
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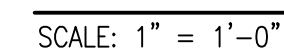
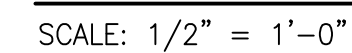
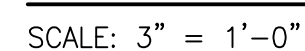
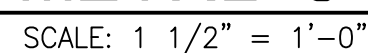
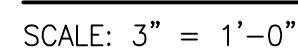
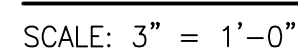




SCALE: 1 1/2" = 1'-0"



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



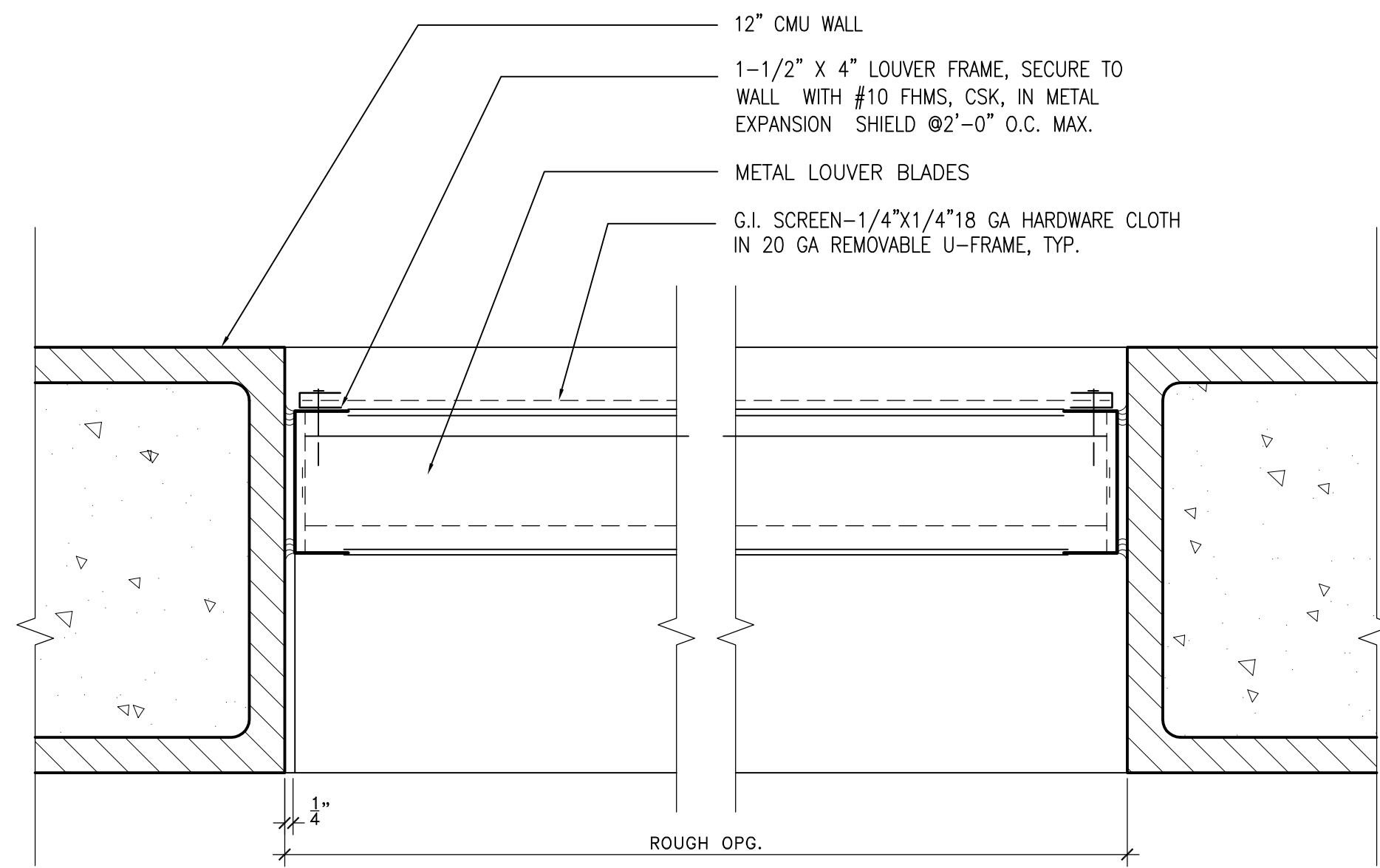
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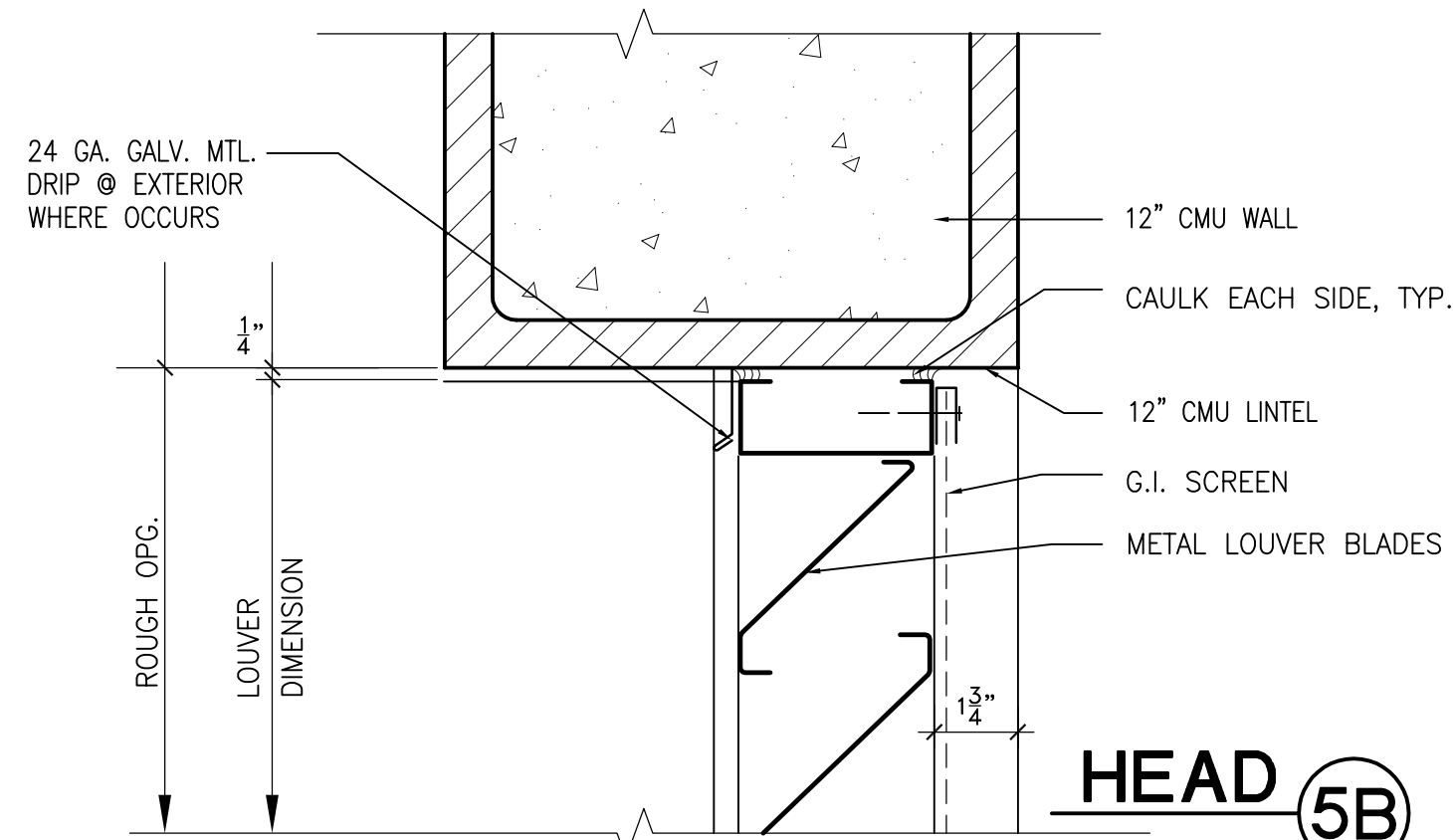
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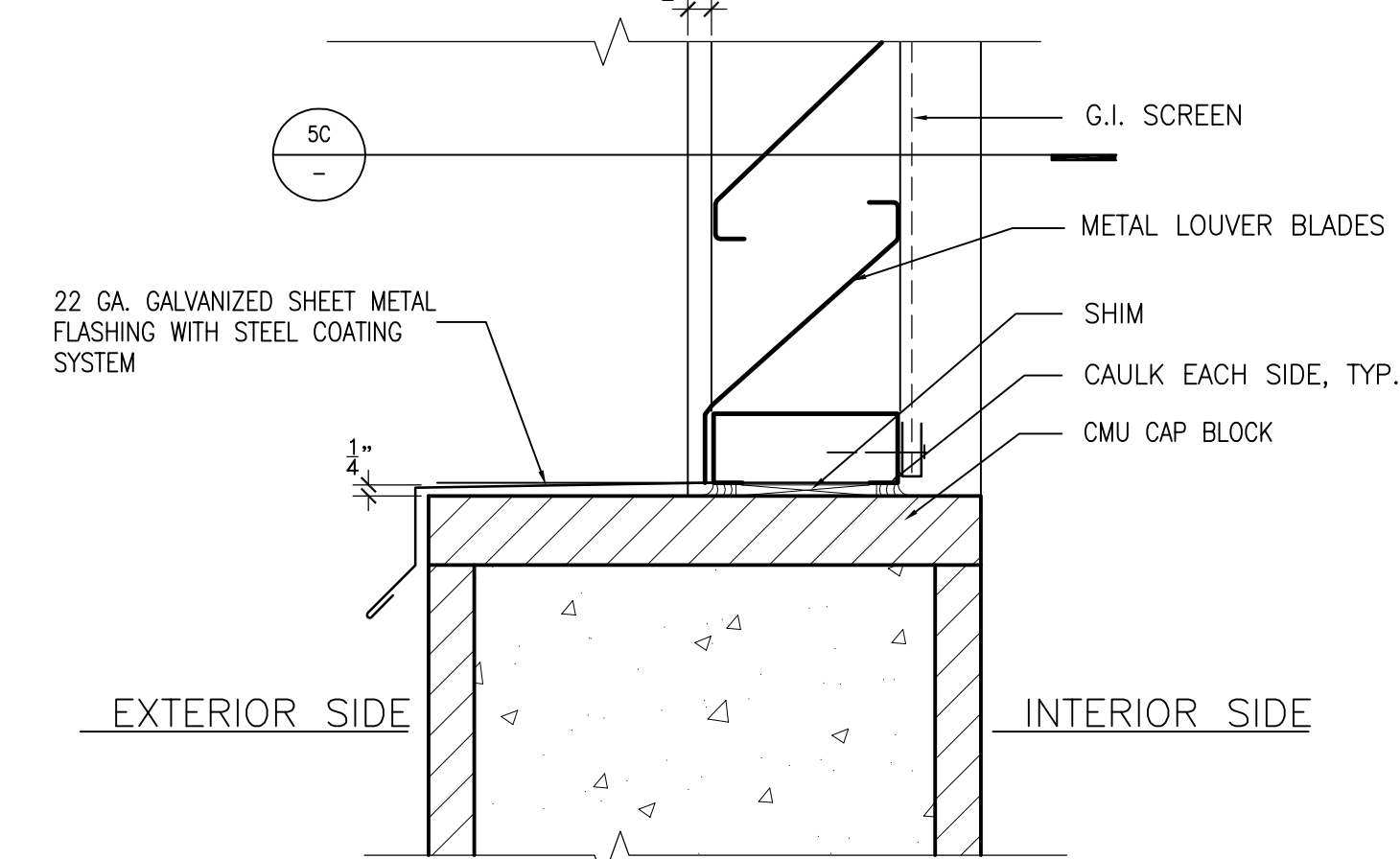




JAMB 5C



HEAD 5B

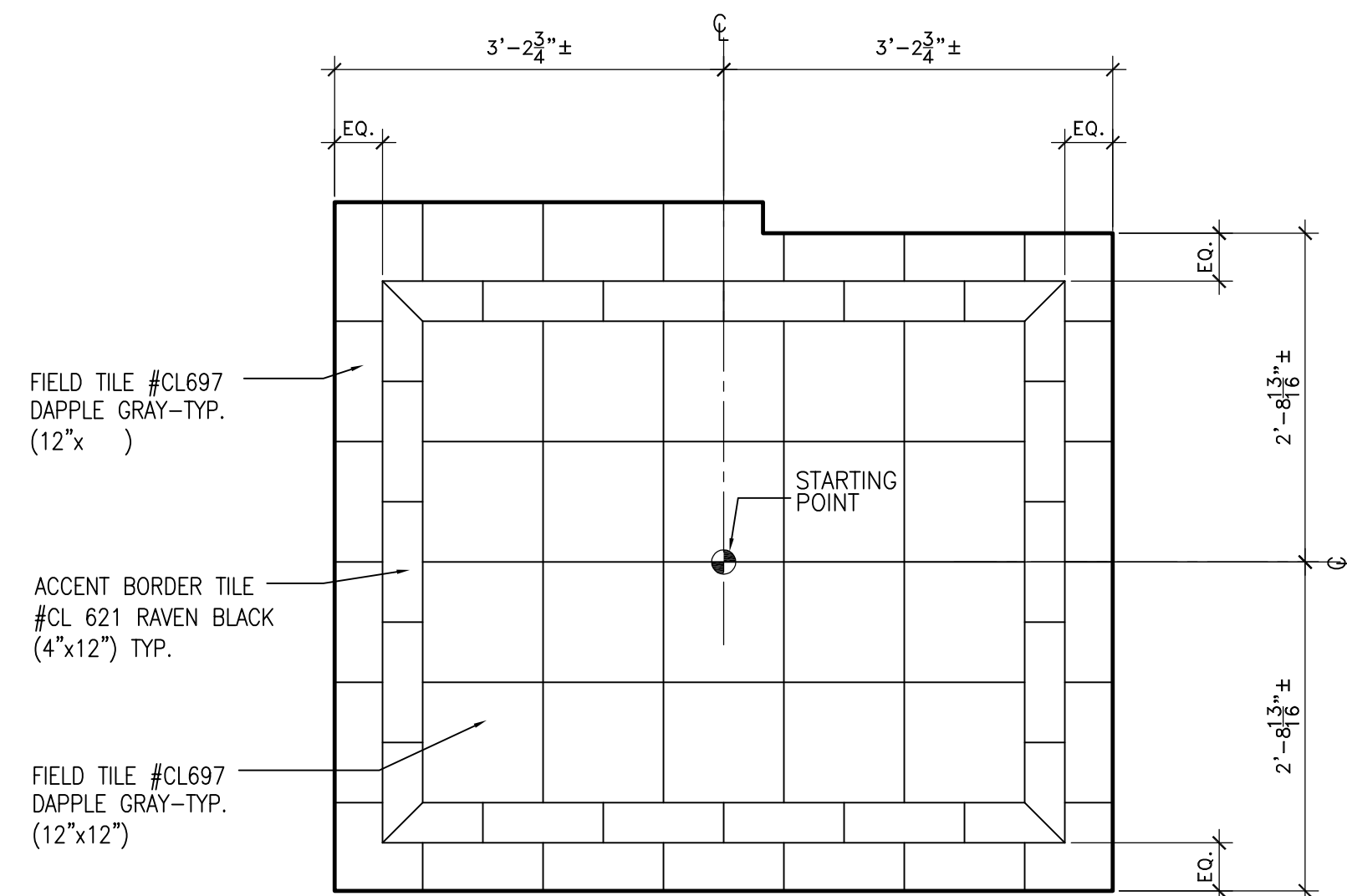


SILL 5A

## METAL LOUVER DETAILS

SCALE: 3"=1'-0"

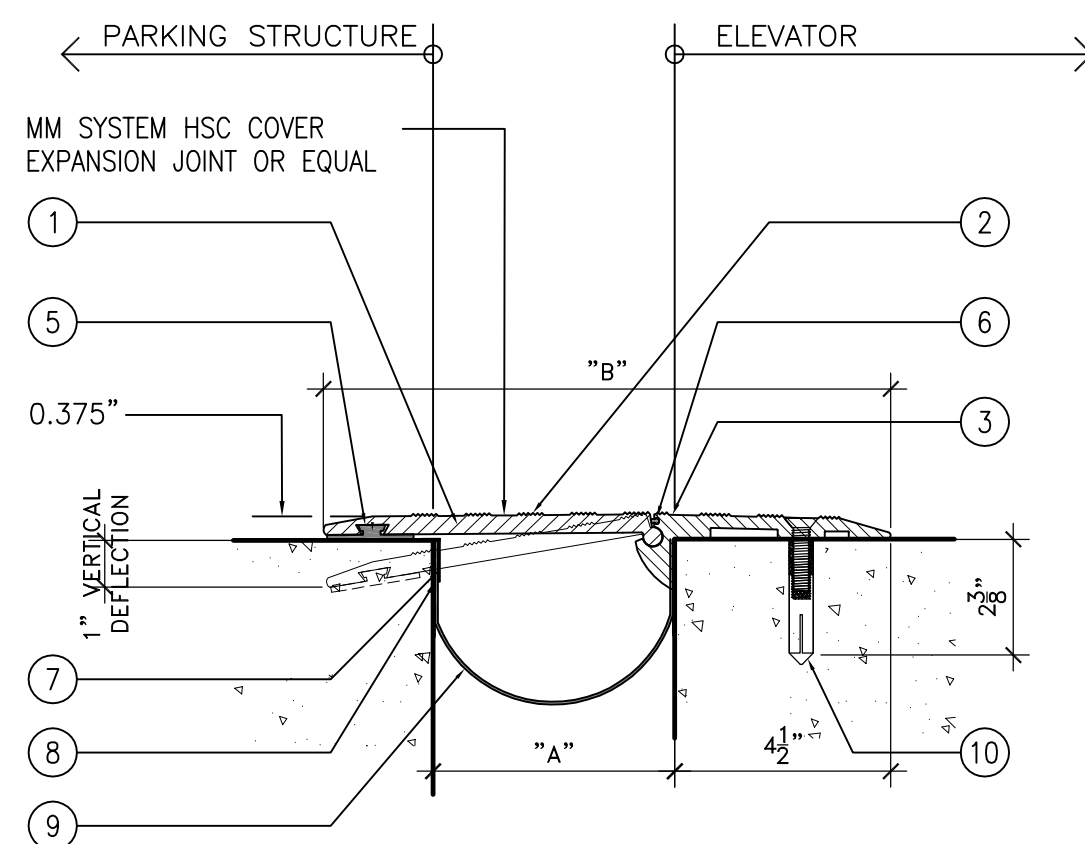
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## ELEV. CAB FLOOR TILE LAYOUT

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

4

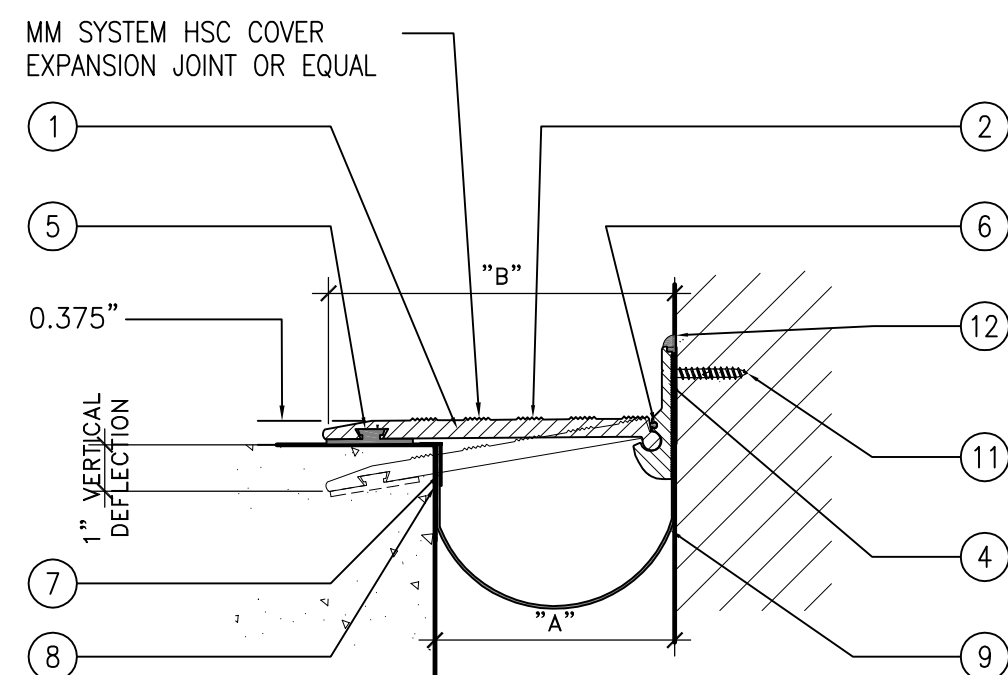


## SLAB-TO-SLAB

SCALE: 3"=1'-0"

3B

MODEL	DIMENSION		LEVEL
	SYSTEM WIDTH (B)	JOINT OPENING (A)	
HSC-800	17 3/4"	6"	SECOND
HSC-800	17 3/4"	6"	THIRD



## SLAB-TO-WALL

SCALE: 3"=1'-0"

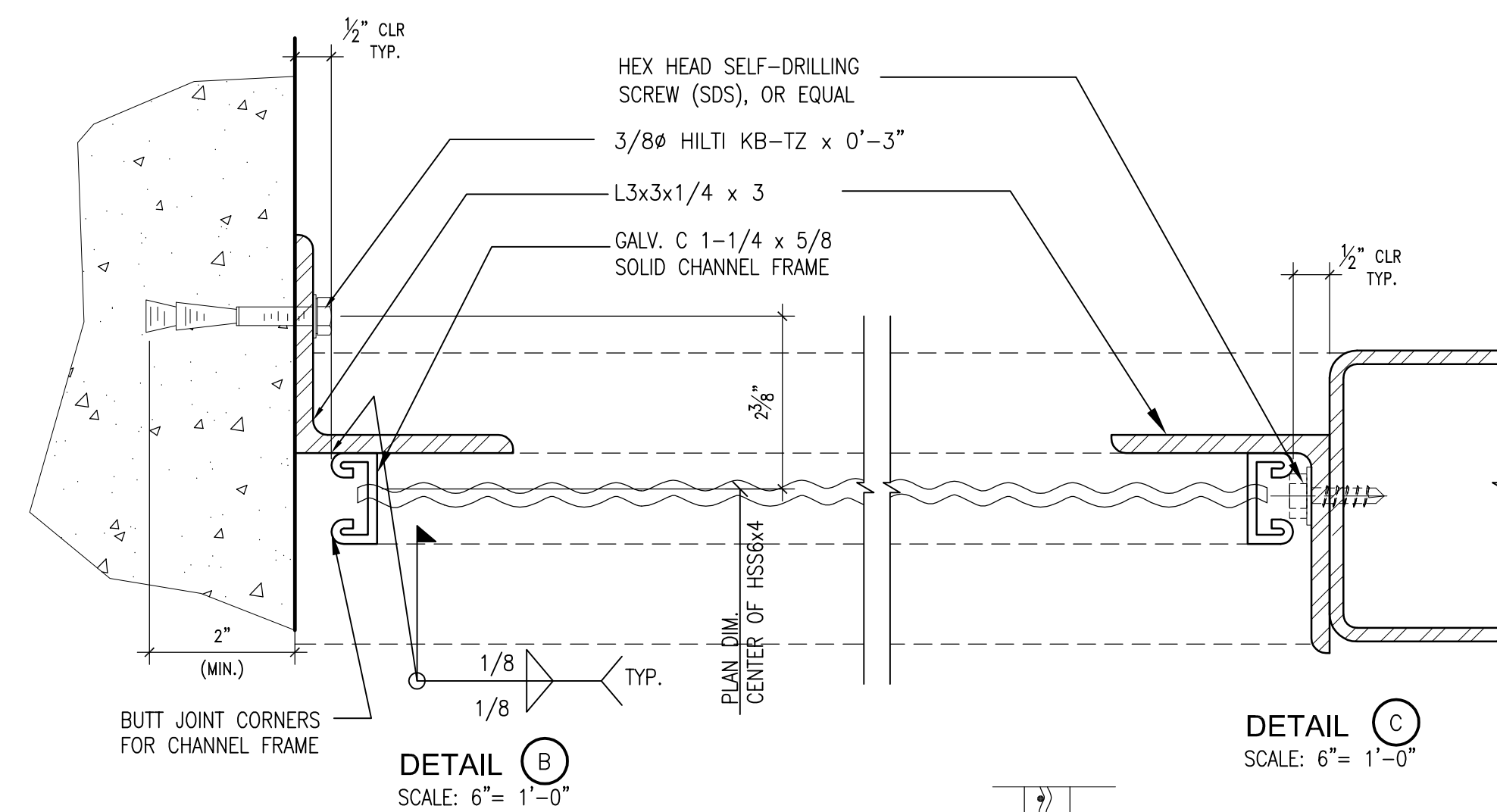
3A

MODEL	DIMENSION		LEVEL
	SYSTEM WIDTH (B)	JOINT OPENING (A)	
HSC-C 800	13 1/4"	6"	SECOND
HSC-C 800	13 1/4"	6"	THIRD

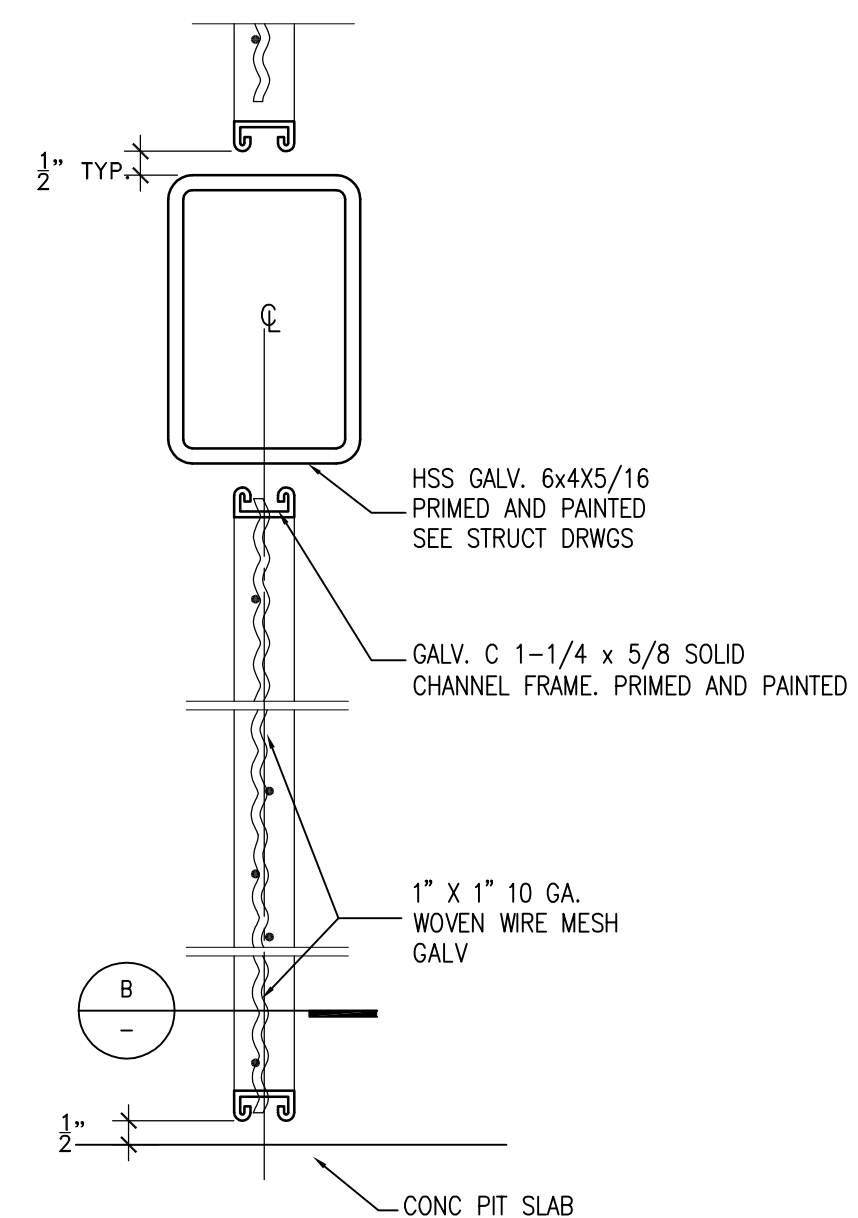
## PEDESTRIAN EXPANSION JOINT COVER

SCALE: 3"=1'-0"

3



DETAIL B  
SCALE: 6"=1'-0"



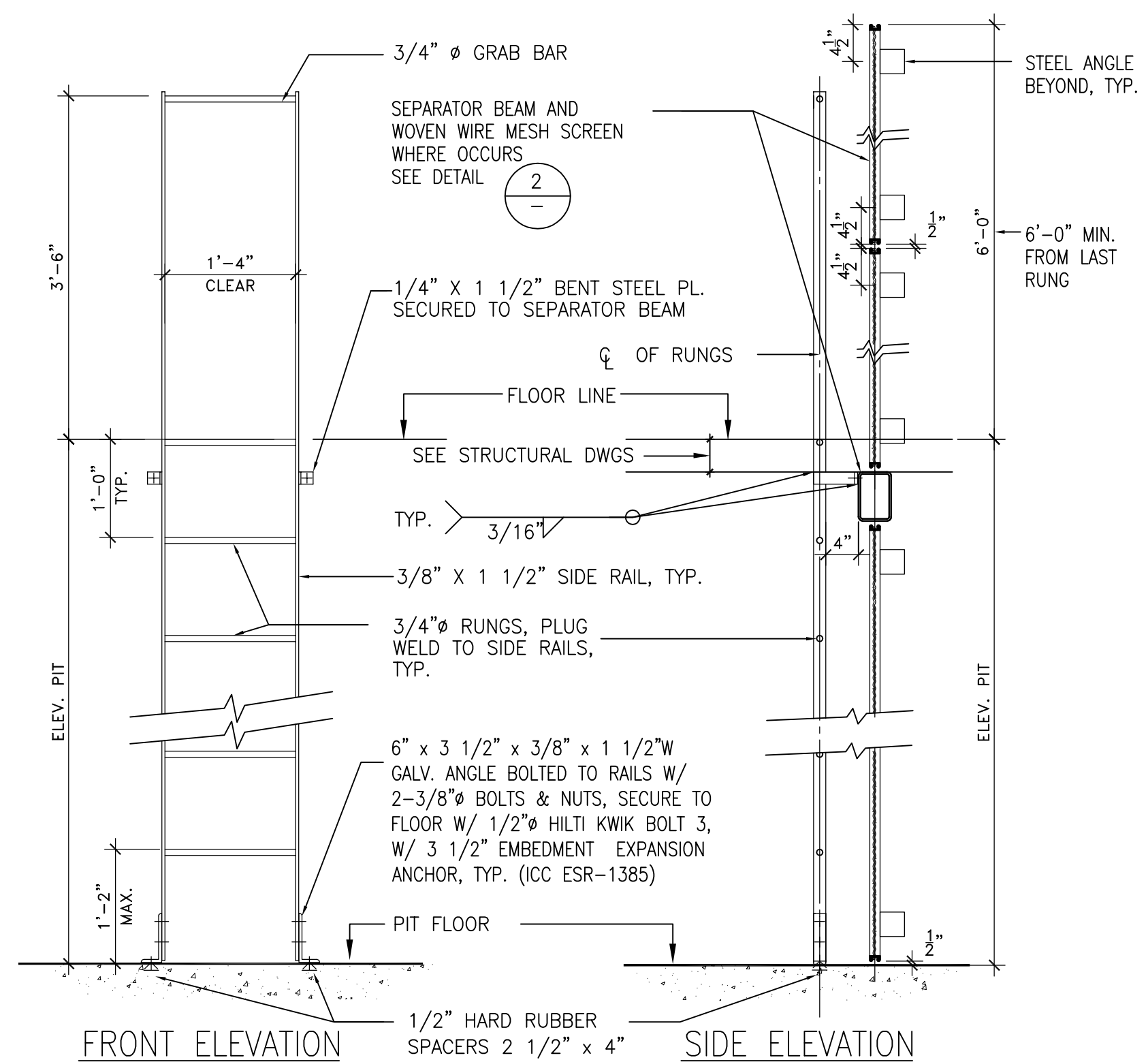
DETAIL C  
SCALE: 6"=1'-0"

SECTION A

## DETAIL OF WWM SCREEN

SCALE: 3"=1'

2



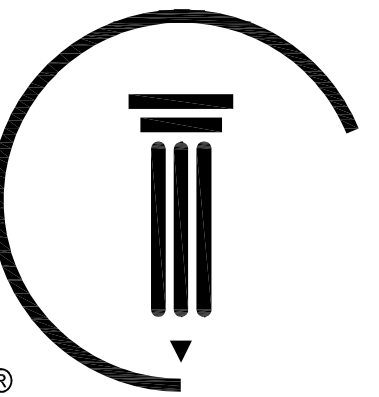
FRONT ELEVATION

SIDE ELEVATION

## ELEVATOR PIT LADDER DETAIL

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

1



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Sheet Title  
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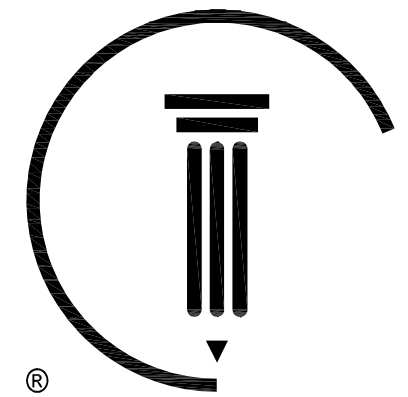
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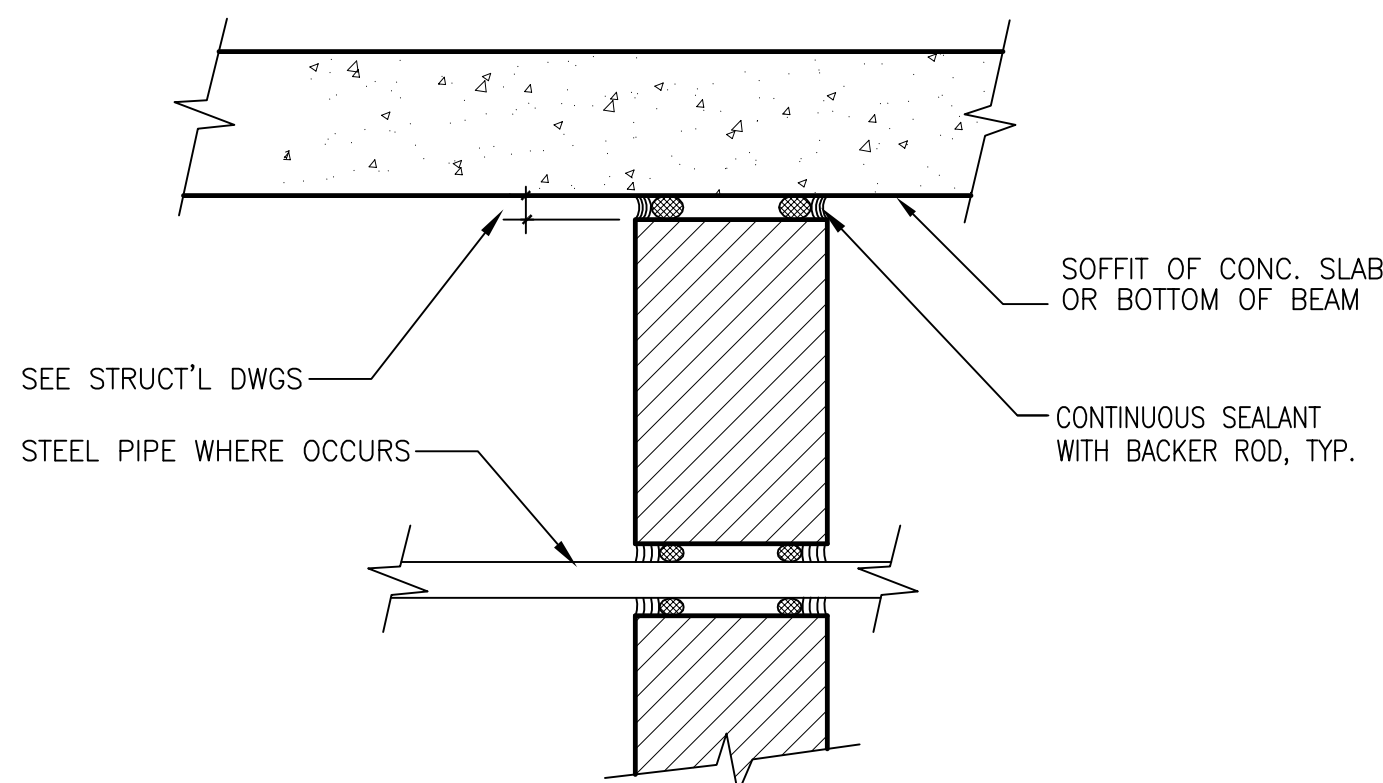
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Sheet Title  
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Sheet Number

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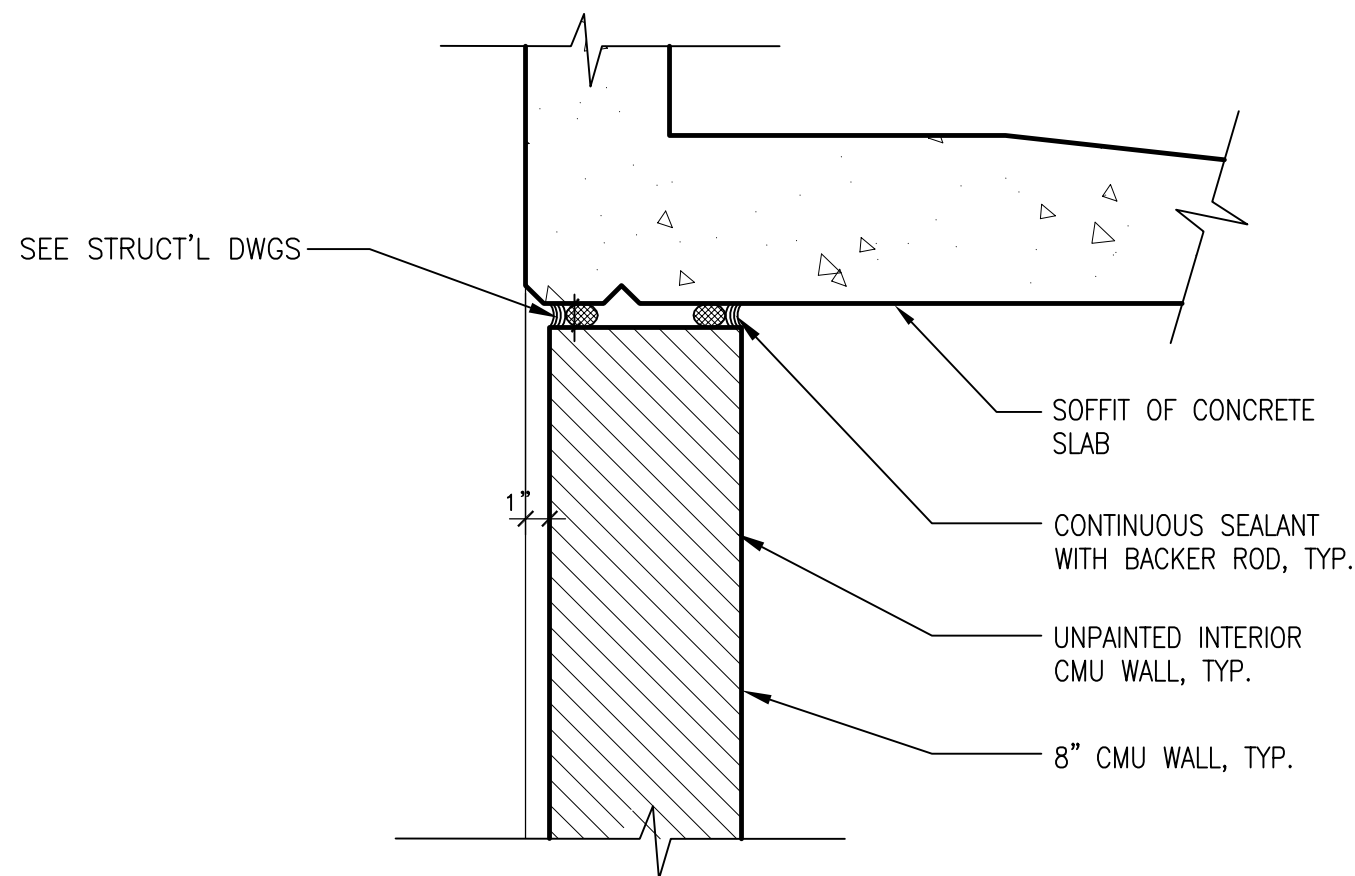
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### WALL DETAIL

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

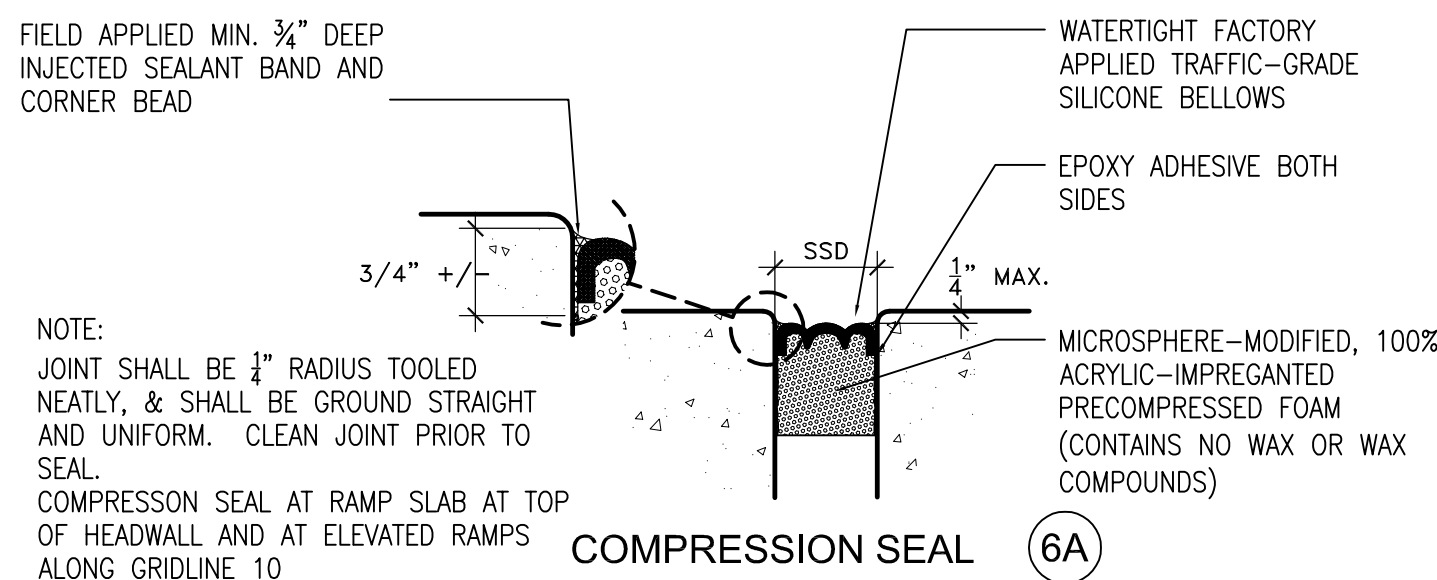
8



### WALL DETAIL

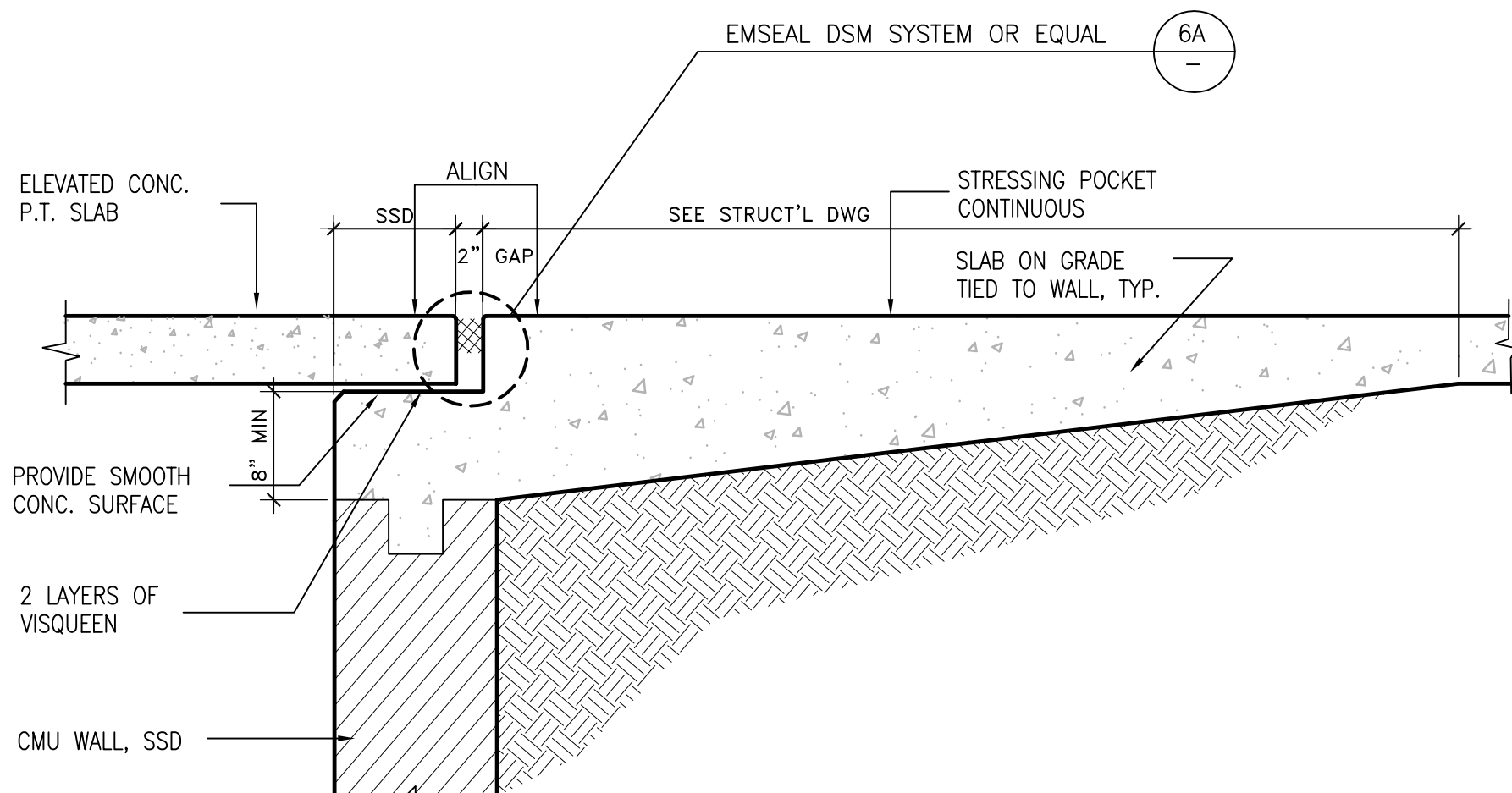
SCALE: 1 1/2" = 1'-0"

7



### COMPRESSION SEAL

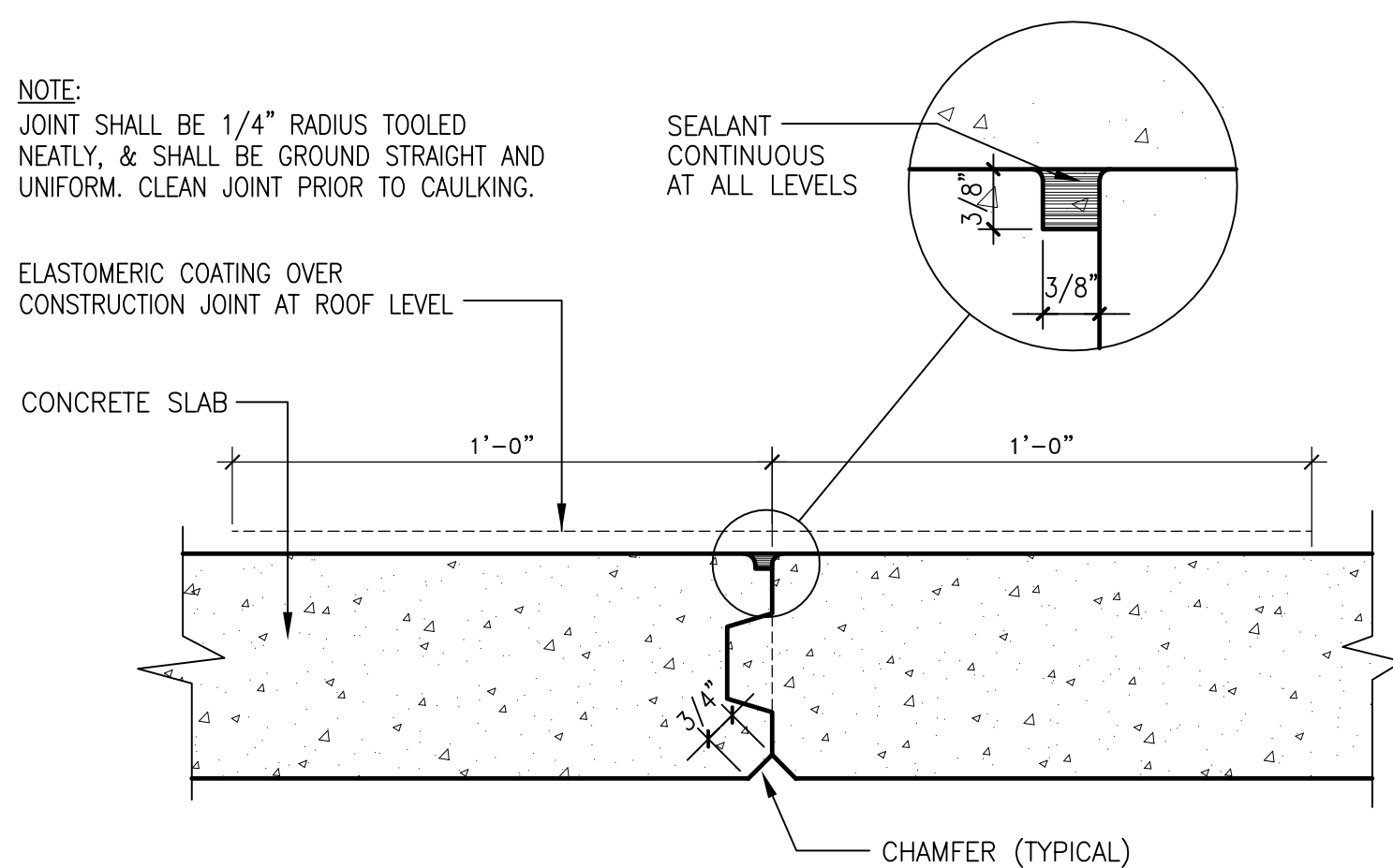
6A



### SEPARATION JOINT W/ POUR STRIP DETAIL

SCALE: 1"=1'-0"

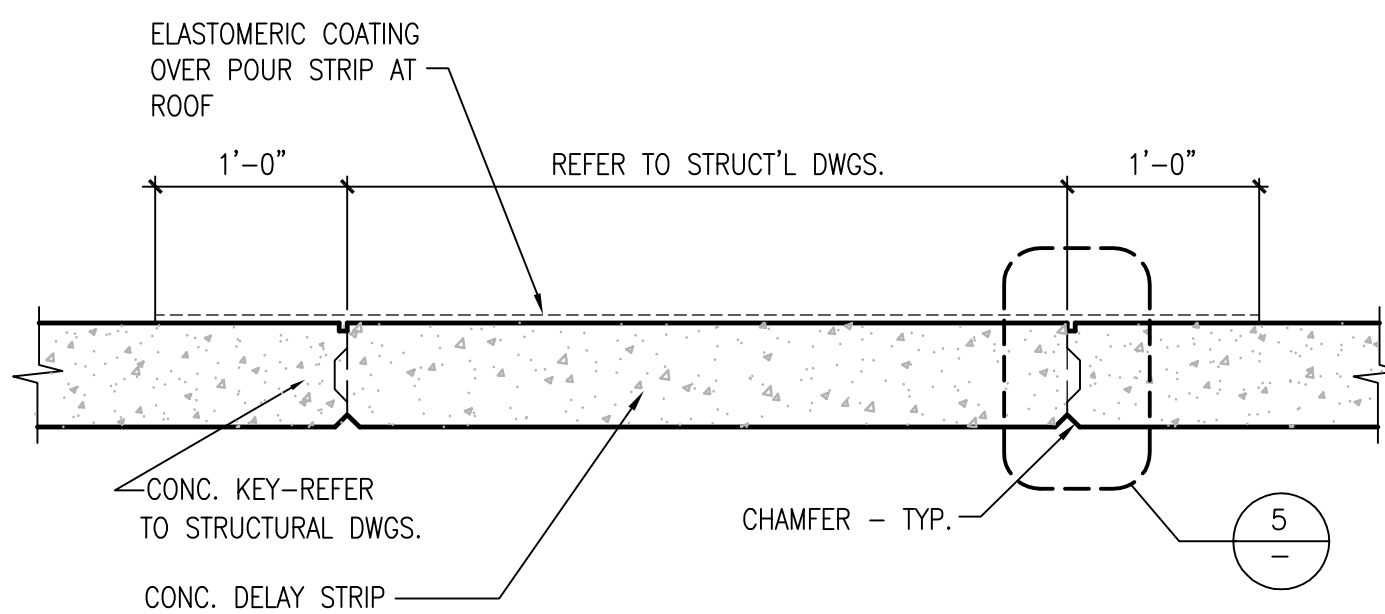
6



### CONST. JOINT DETAIL

SCALE: 3" = 1'-0"

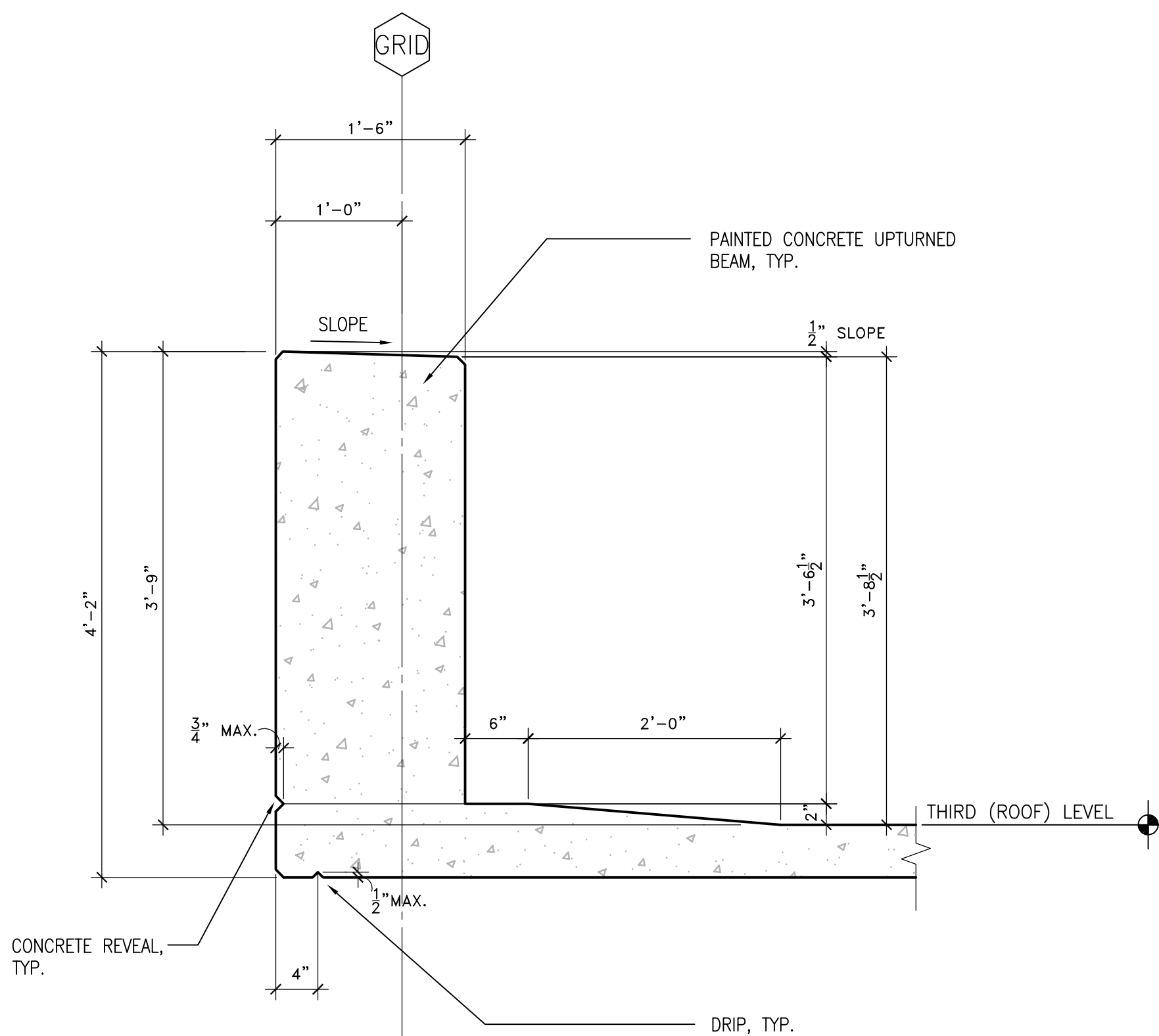
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### DELAY STRIP

SCALE: 1"=1'-0"

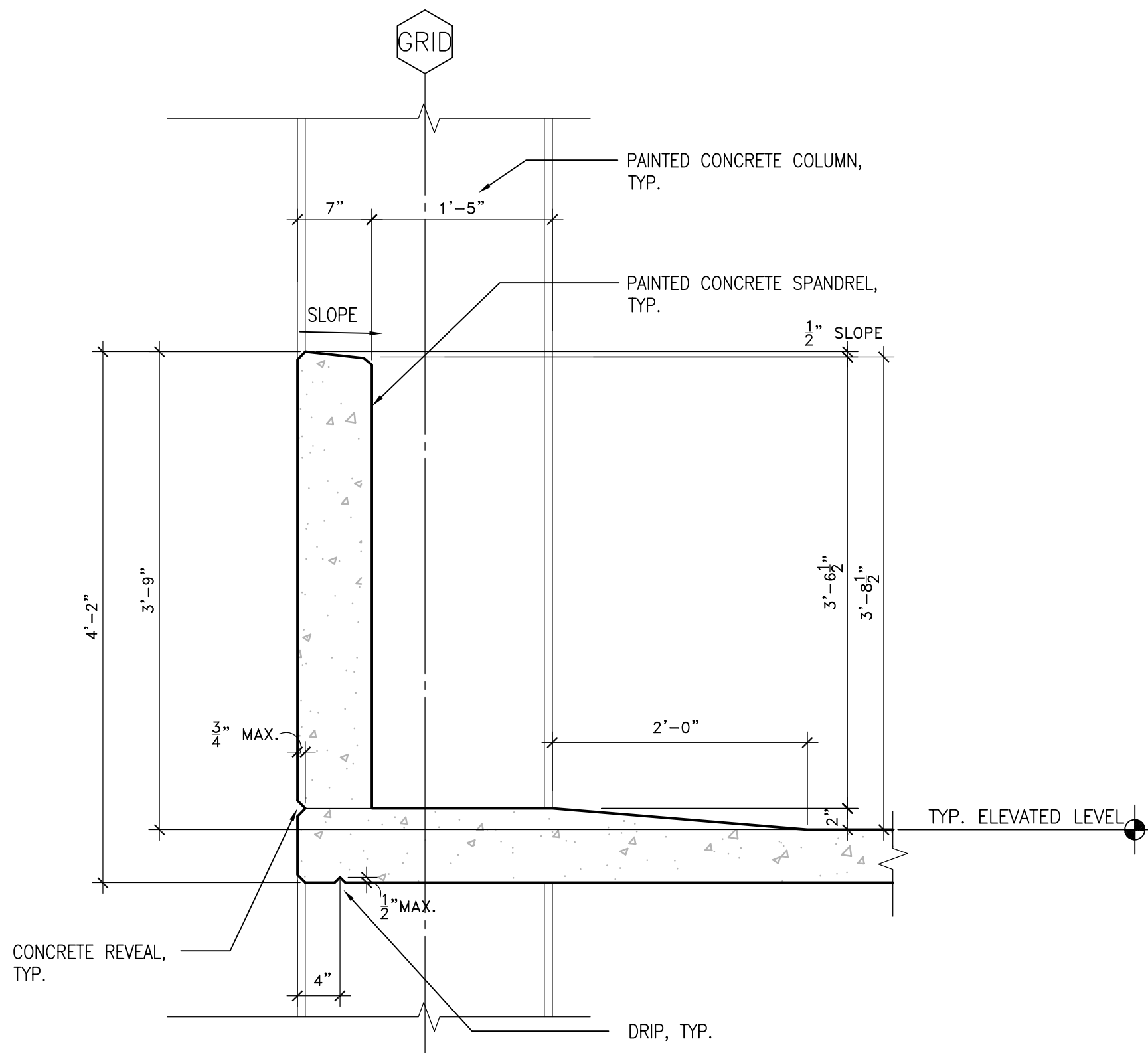
4



### C.I.P. CONCRETE UPTURNED BEAM

SCALE: 1"= 1'-0"

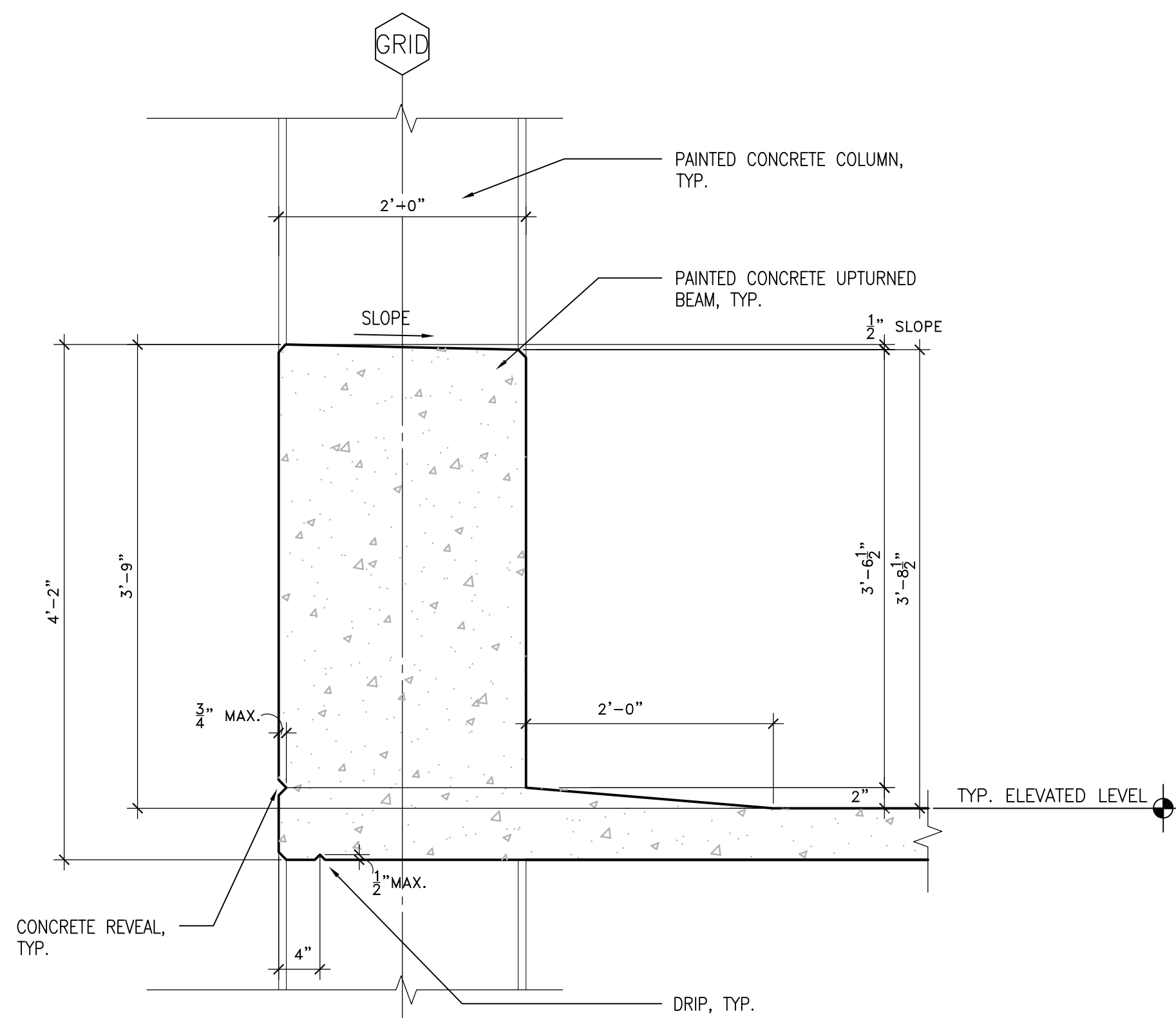
3



### C.I.P. CONCRETE SPANDREL

SCALE: 1"= 1'-0"

2



### C.I.P. CONCRETE UPTURNED BEAM

SCALE: 1"= 1'-0"

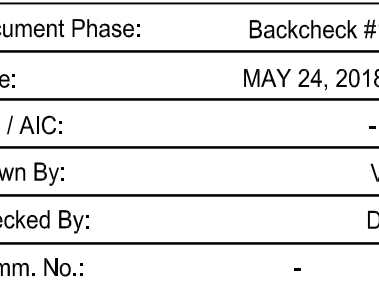
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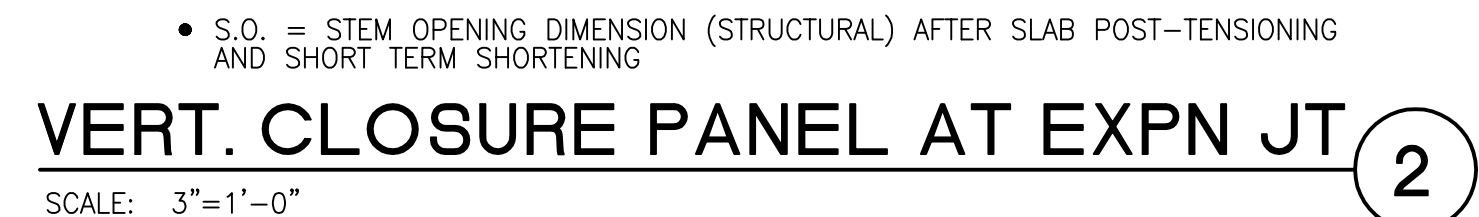


Dispositions	
Date	Description



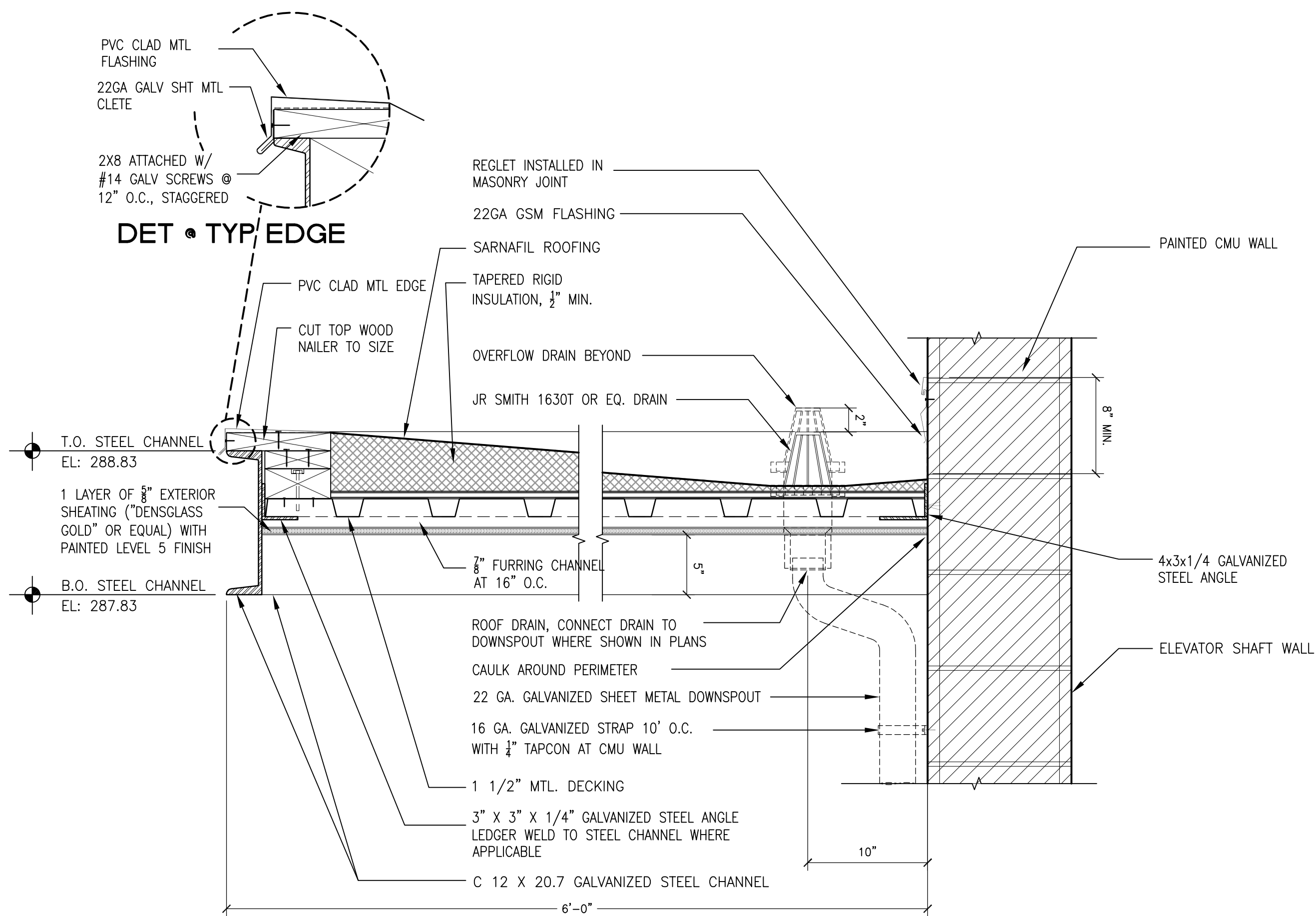
Sheet Number

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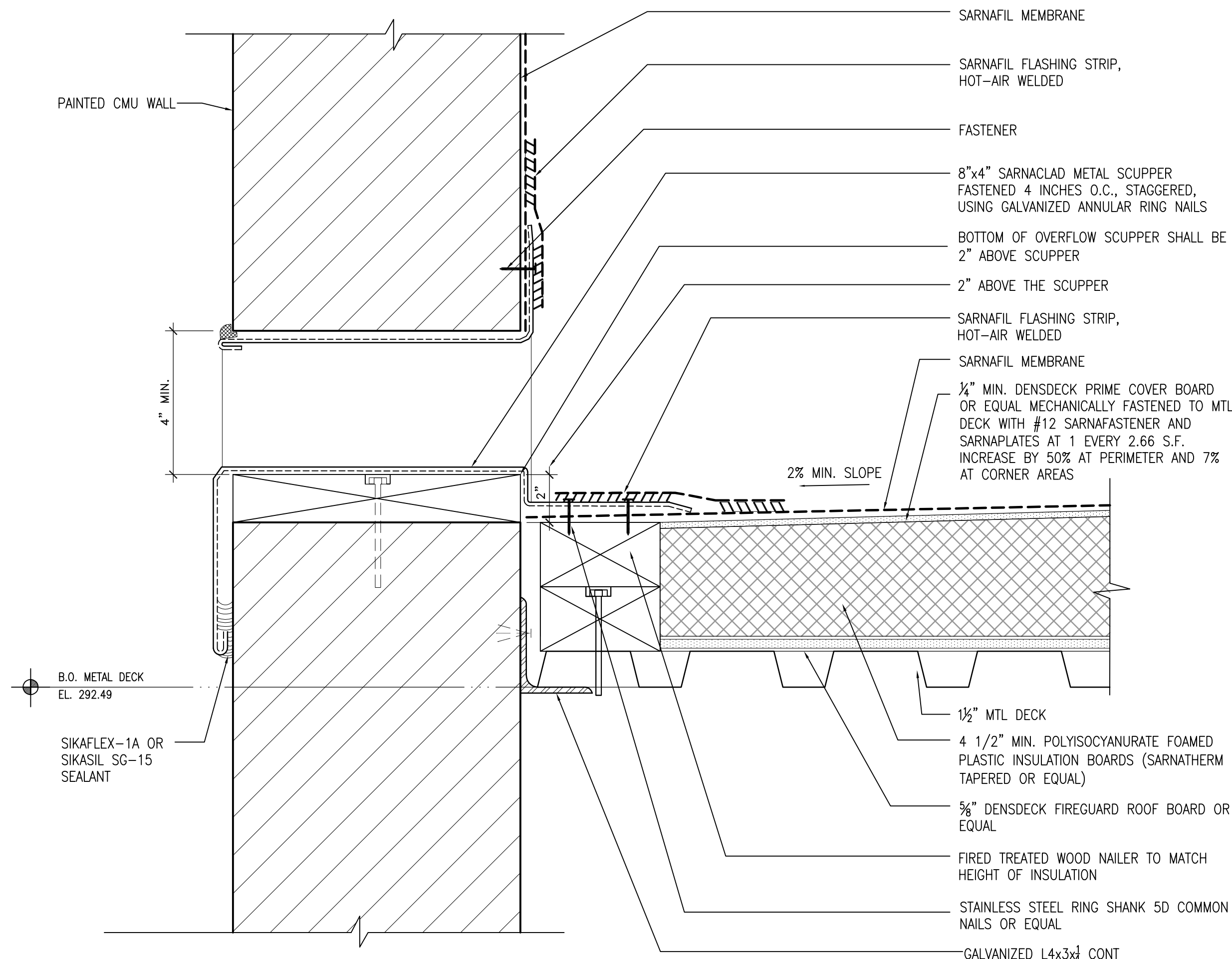




CANOPY DETAIL AT ELEVATOR No. 1 & 2

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

4



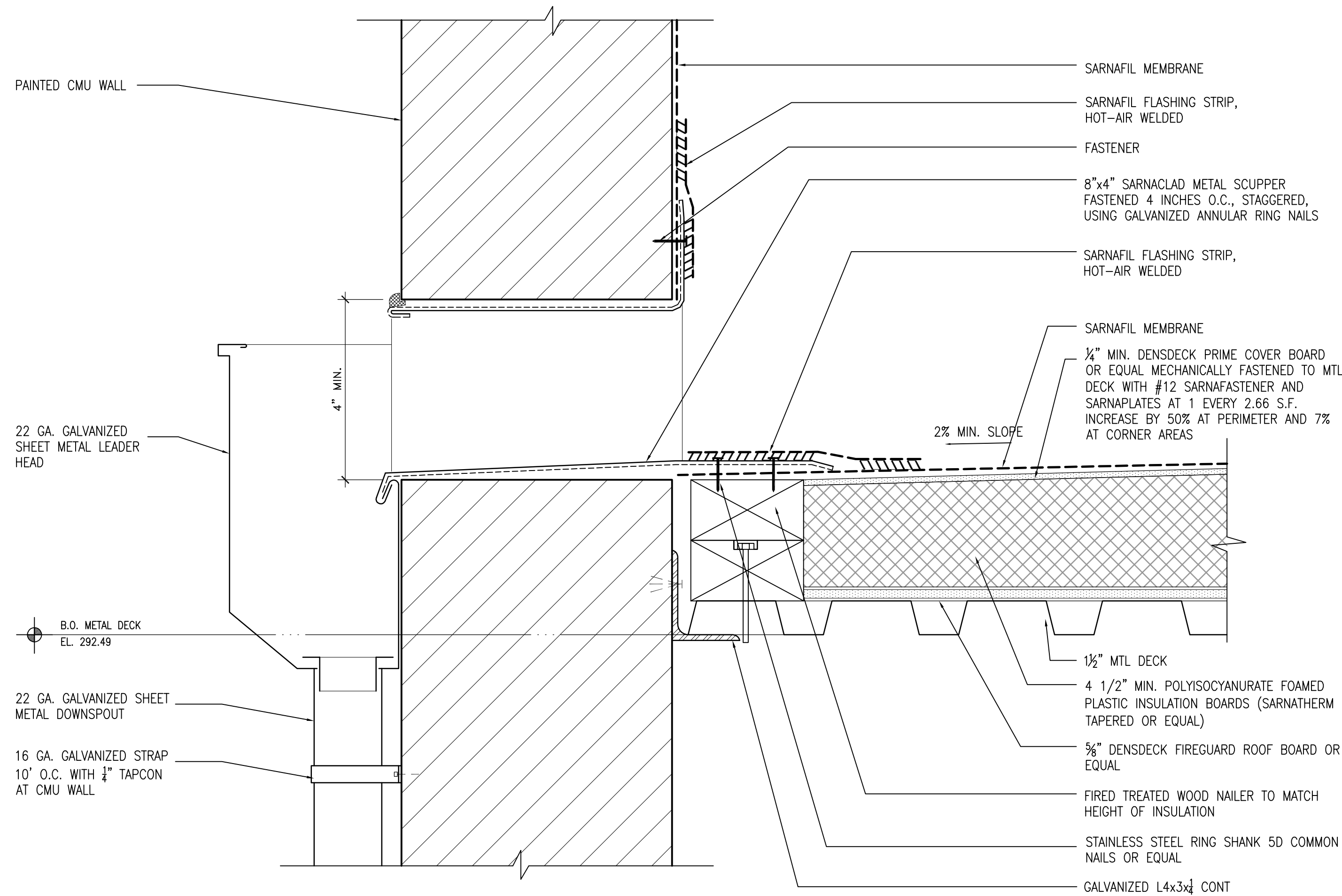
NOTES:

- 1) NAILERS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST A FORCE OF 300 POUNDS PER LINEAL FOOT IN ANY DIRECTION.

THRU-WALL OVERFLOW SCUPPER

SCALE: 3"= 1'-0"

3



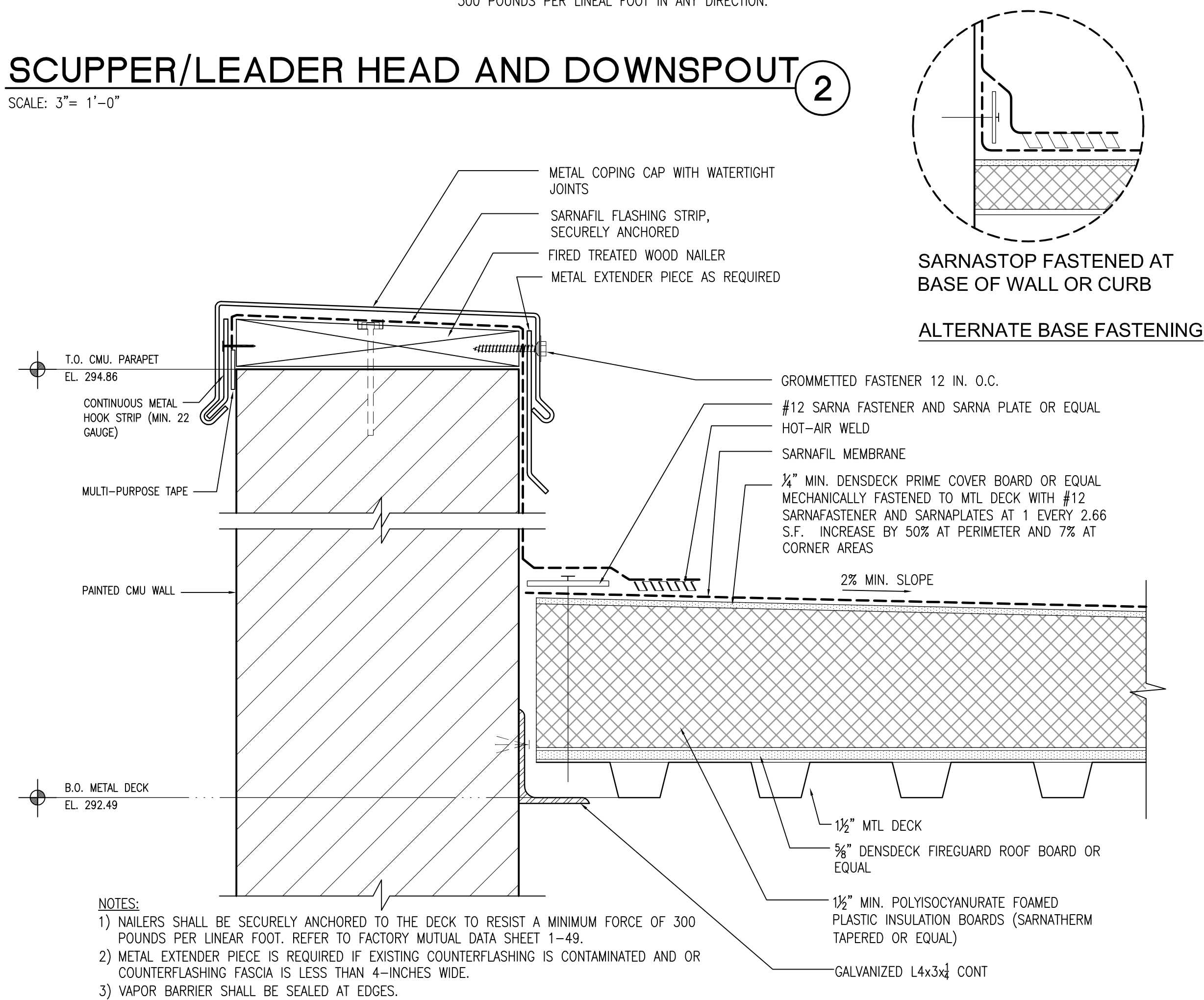
NOTES:

- 1) NAILERS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST A FORCE OF 300 POUNDS PER LINEAL FOOT IN ANY DIRECTION.

SCUPPER/LEADER HEAD AND DOWNSPOUT

SCALE: 3"= 1'-0"

2



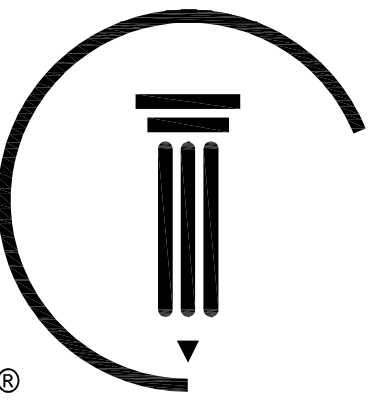
NOTES:

- 1) NAILERS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST A MINIMUM FORCE OF 300 POUNDS PER LINEAL FOOT, REFER TO FACTORY MUTUAL DATA SHEET 1-49.
- 2) METAL EXTENDER PIECE IS REQUIRED IF EXISTING COUNTERFLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4-INCHES WIDE.
- 3) VAPOR BARRIER SHALL BE SEALED AT EDGES.

PARAPET WALL WITH METAL COPING CAP

SCALE: 3"= 1'-0"

1



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Revisions

No.	Date	Description



Document Phase: Backcheck #1

Date: MAY 24, 2018

PIC / AIC: -

Drawn By: VC

Checked By: DV

Comm. No.: -

Project Title

TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY

Sheet Title

TYPICAL DETAILS

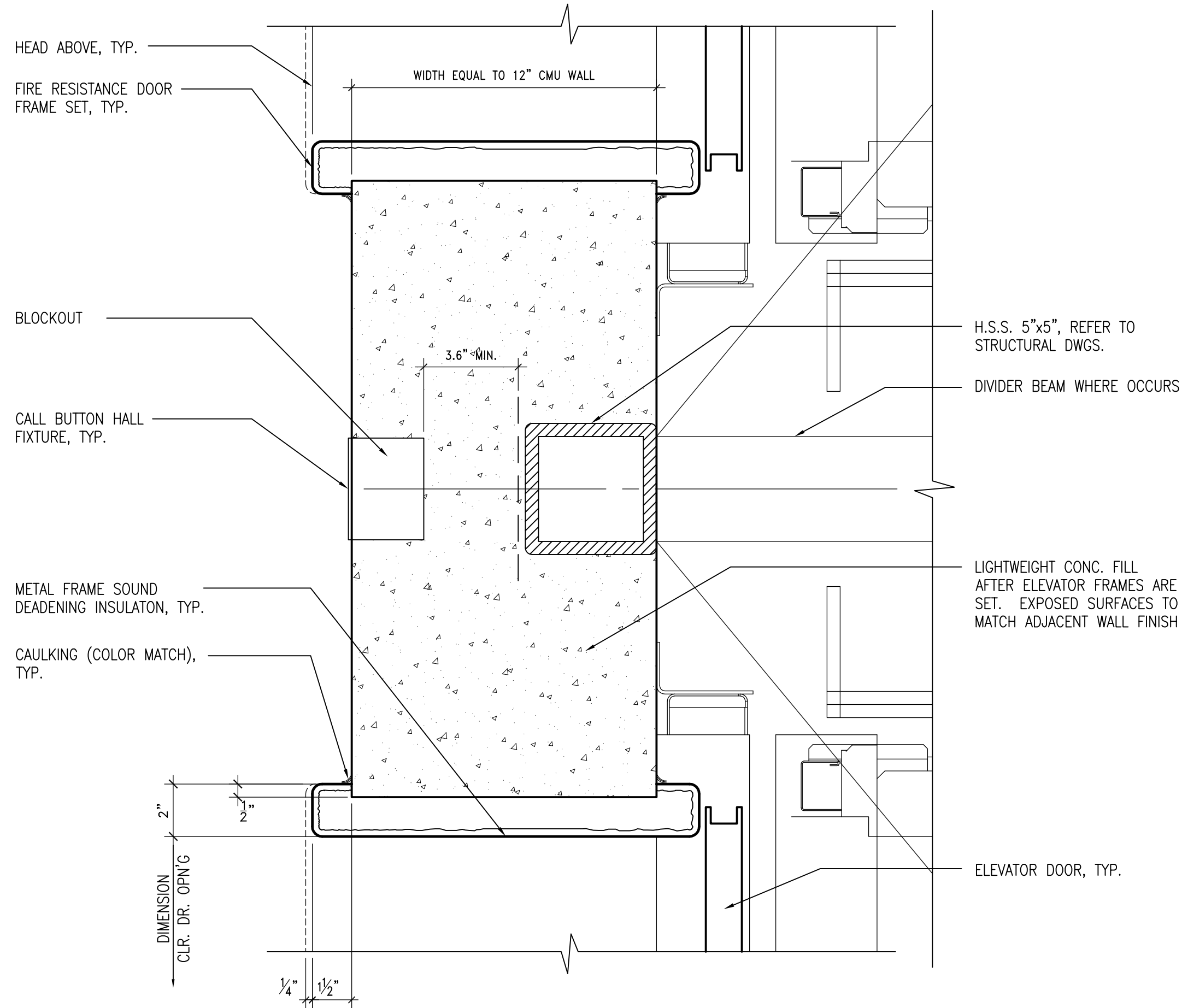
Sheet Number

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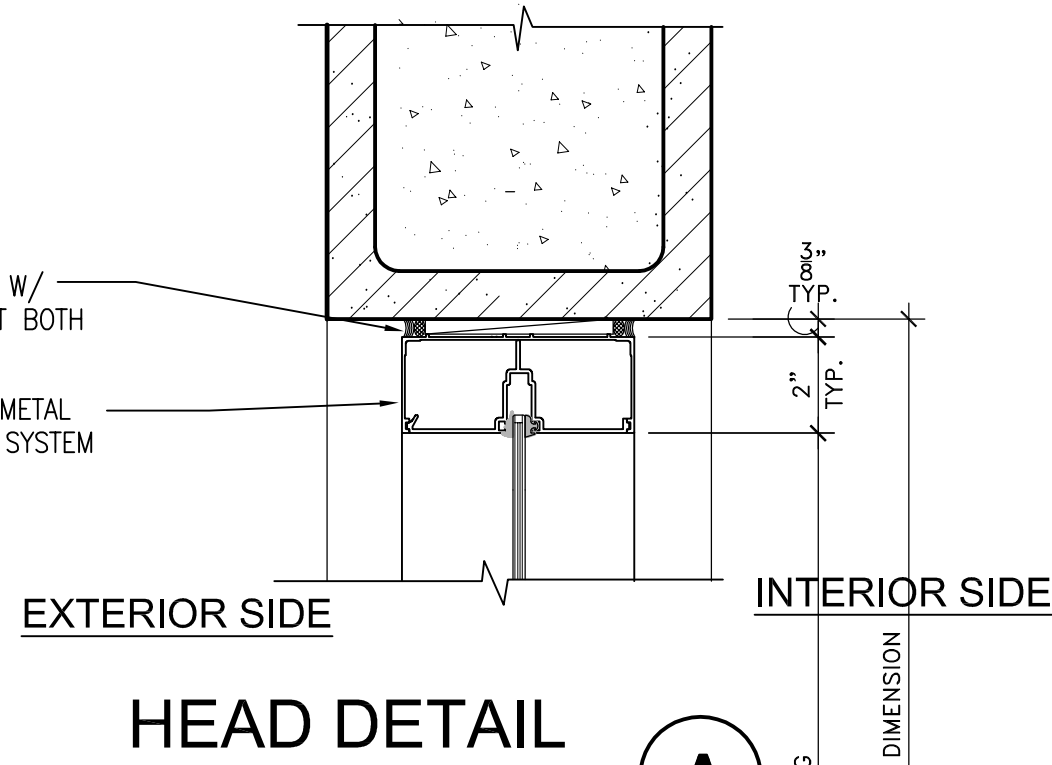


NOTE:  
1. MAINTAIN A MINIMUM LIGHTWEIGHT CONCRETE THICK COVERAGE OF 3.6" FOR A 2 HR RATING PER CBC TABLE 721.1(2), ITEM NUMBER 4-1.1.

ELEVATOR DOOR FRAME  
(JAMB DETAIL)

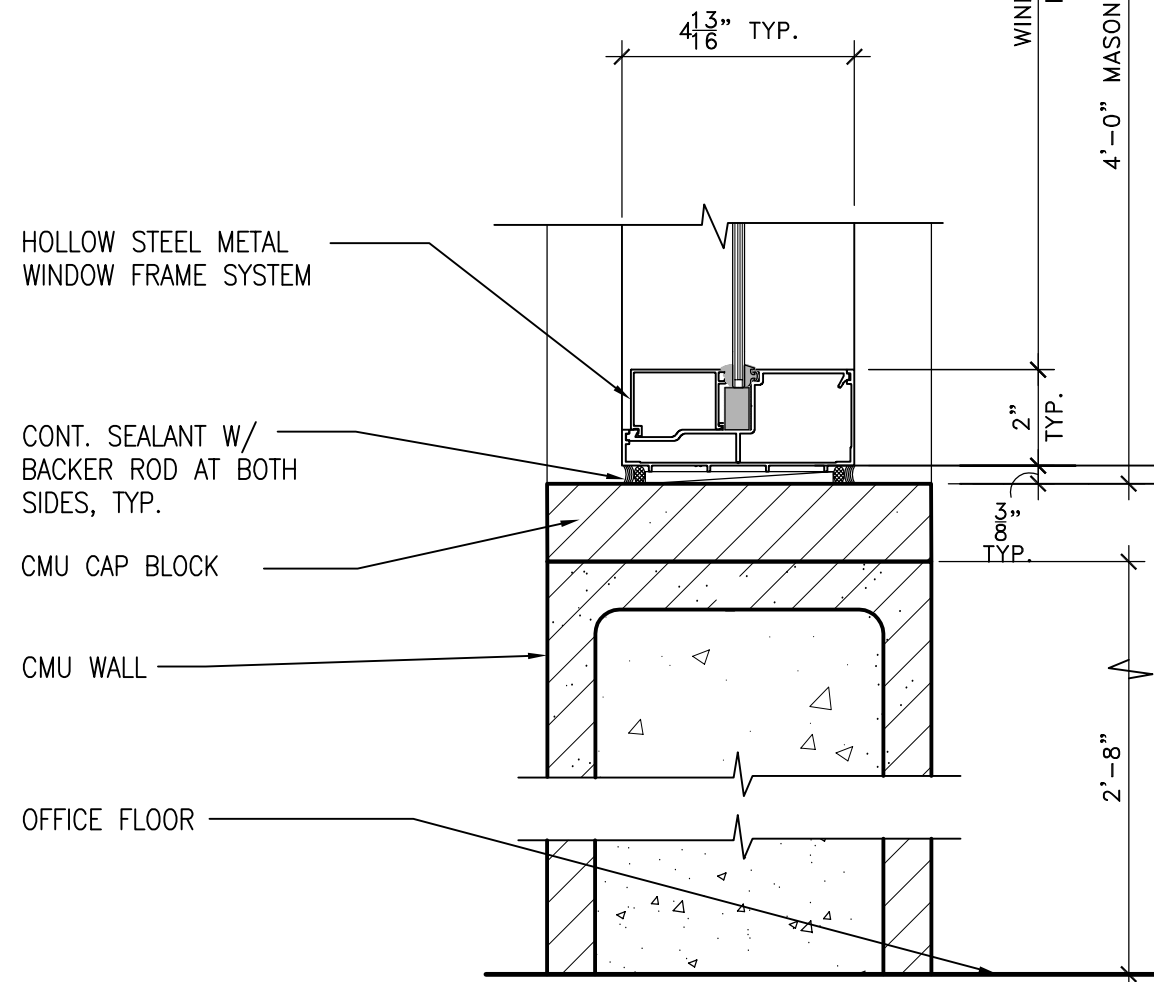
SCALE: 3"=1'-0"

5



HEAD DETAIL

A



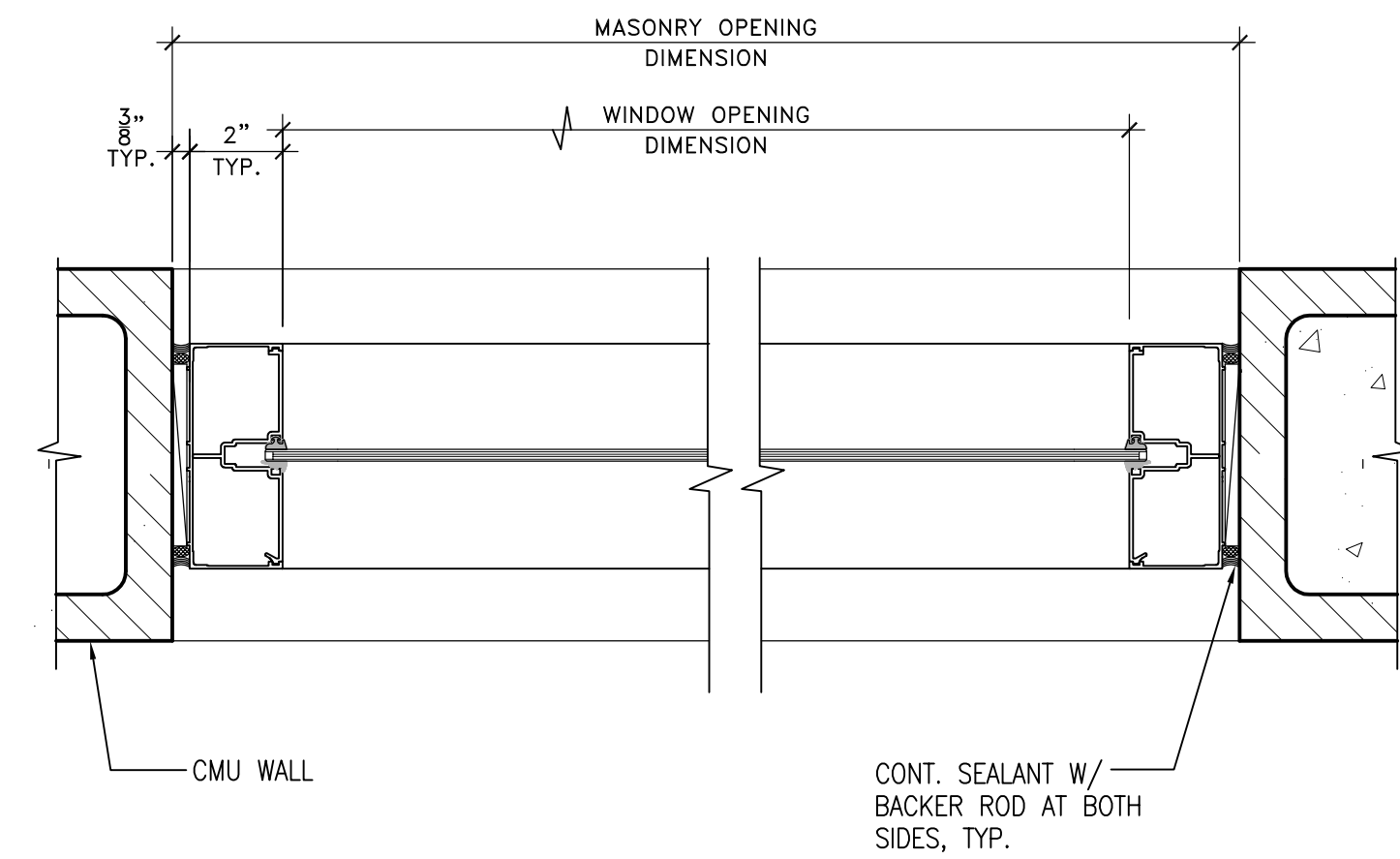
SILL DETAIL

B

WINDOW DETAIL

SCALE: 3"=1'-0"

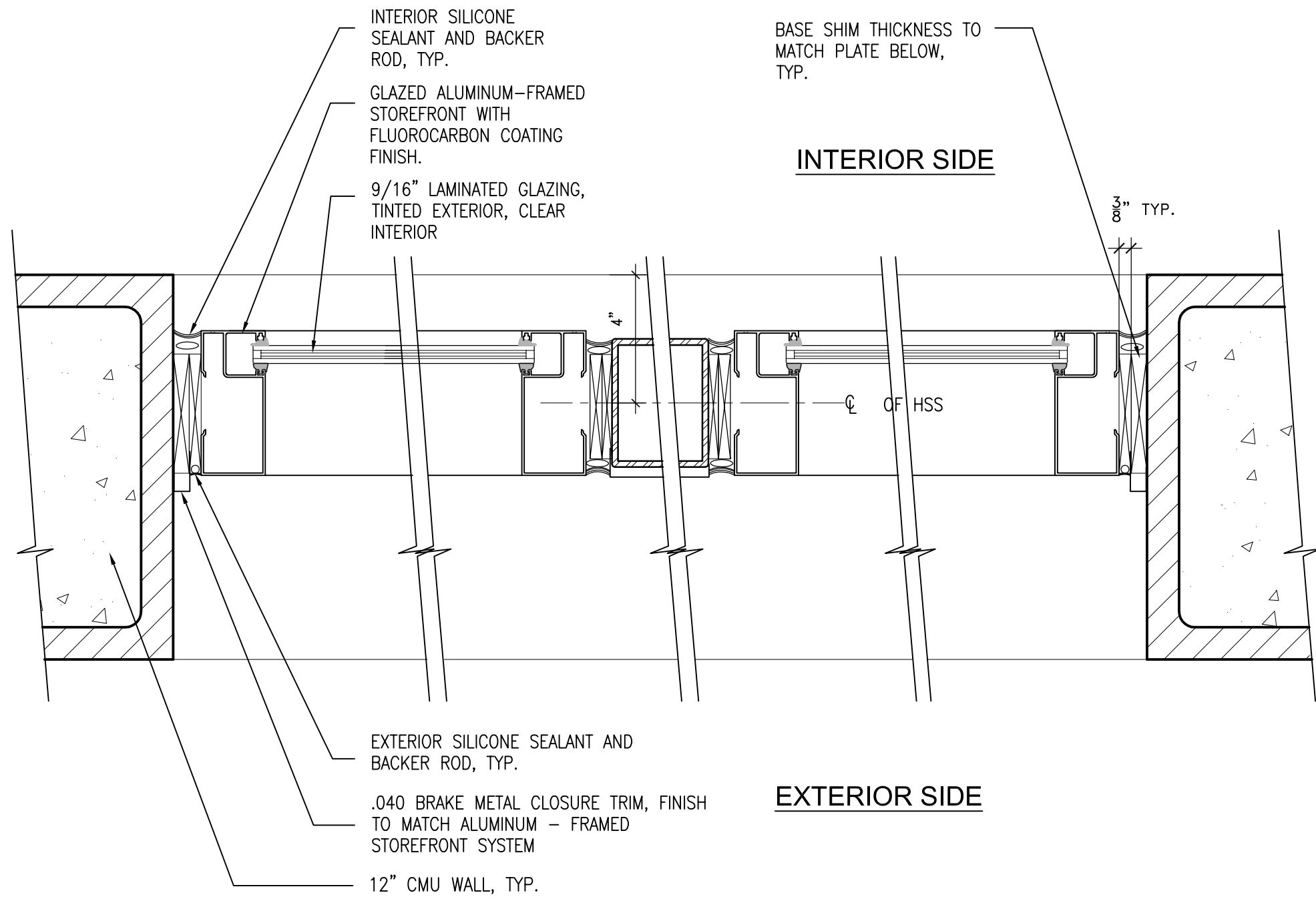
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WINDOW JAMB DETAIL

SCALE: 3"=1'-0"

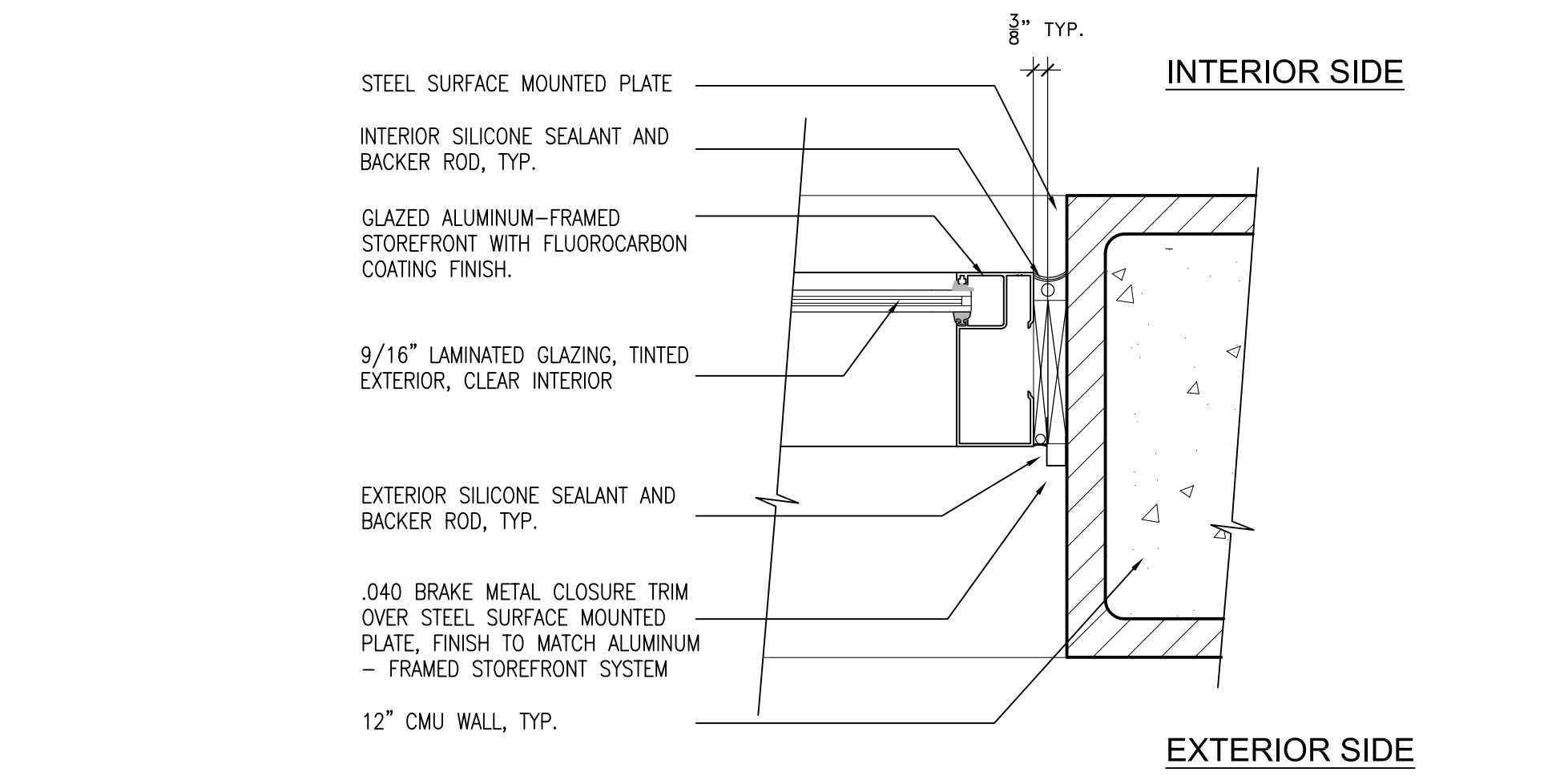
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WINDOW FRAME DETAIL

SCALE: 3"=1'-0"

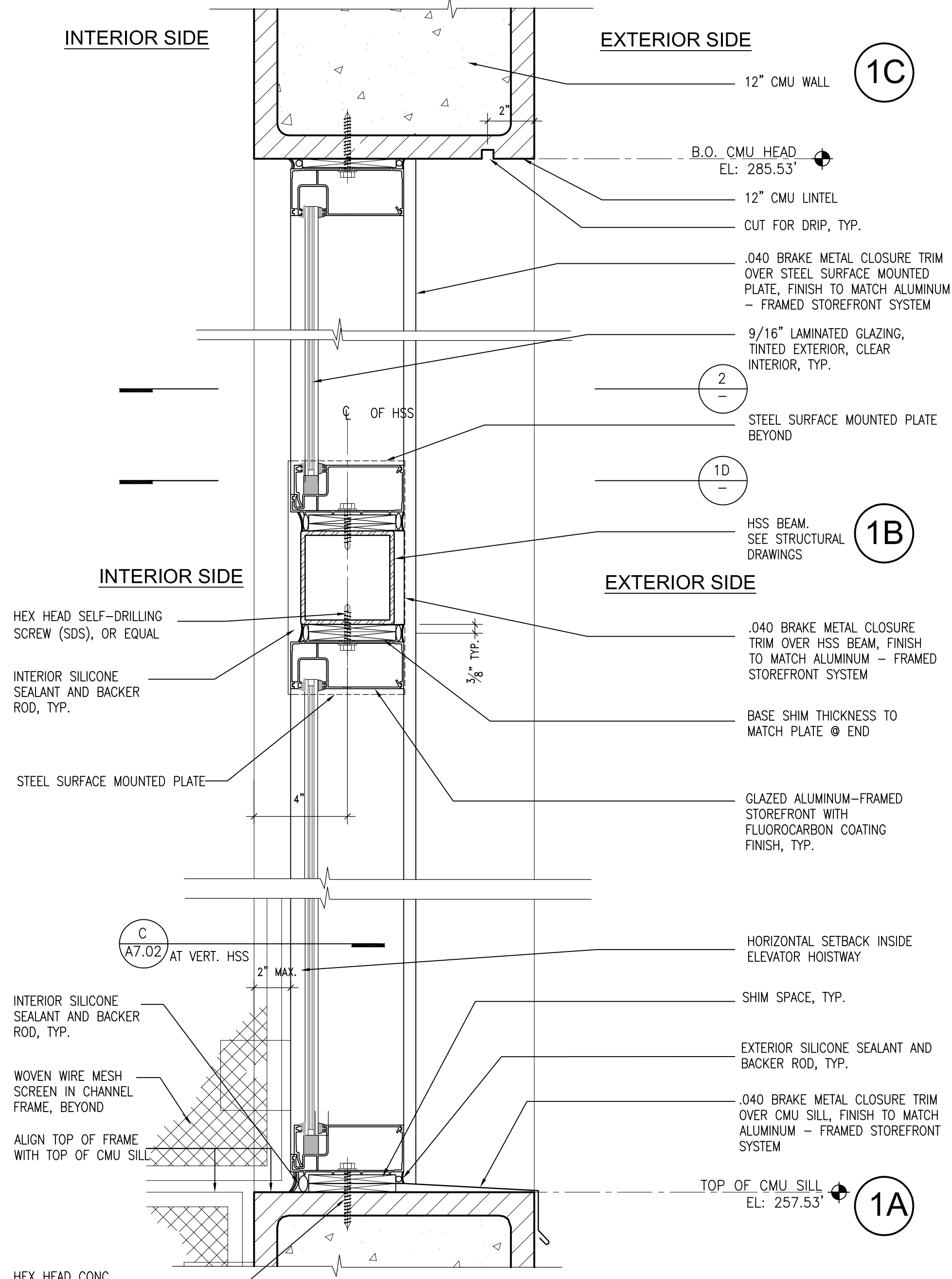
2



WINDOW FRAME DETAIL

SCALE: 3"=1'-0"

1D



ELEVATOR STOREFRONT SYSTEM DETAIL

SCALE: 3"=1'-0"

1



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No.	Date	Description



Document Phase:	Backcheck #1
Date:	MAY 24, 2018
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Drawn By:	VC
Checked By:	DV
Comm. No.:	-

Project Title  
**TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY**

Sheet Title  
**TYPICAL DETAILS**

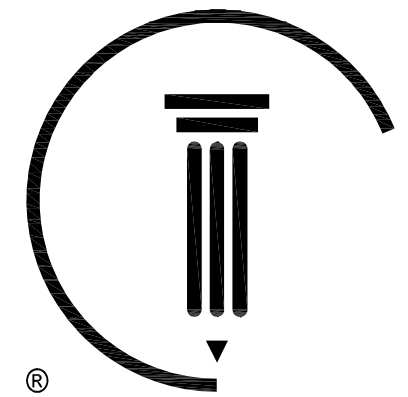
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No.	Date	Description
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Document Phase:	Backcheck #1
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Drawn By:	VC
Checked By:	DV
Comm. No.:	-

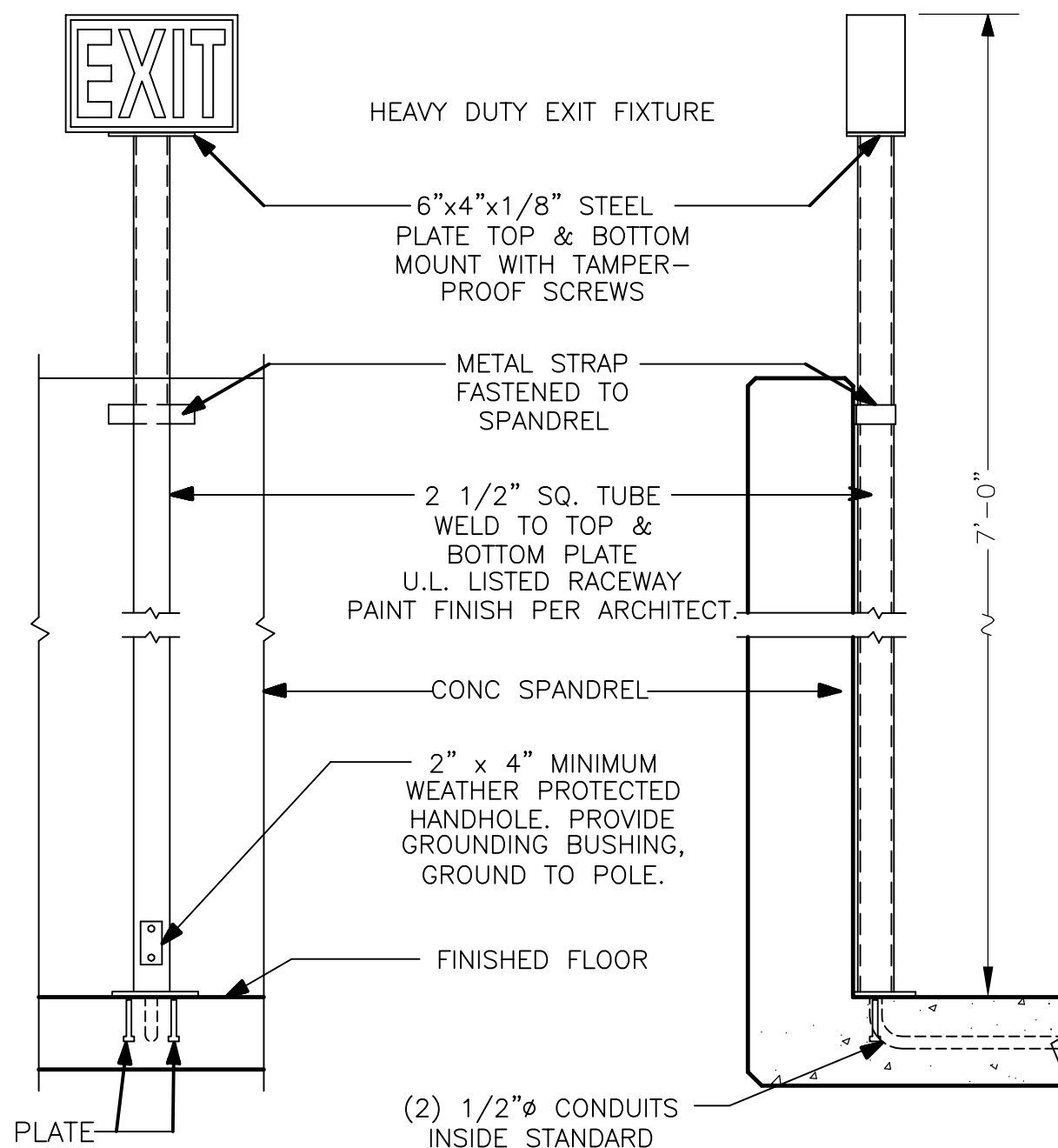
Project Title  
**TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY**

Sheet Title  
**TYPICAL DETAILS**

Sheet Number

A7.07

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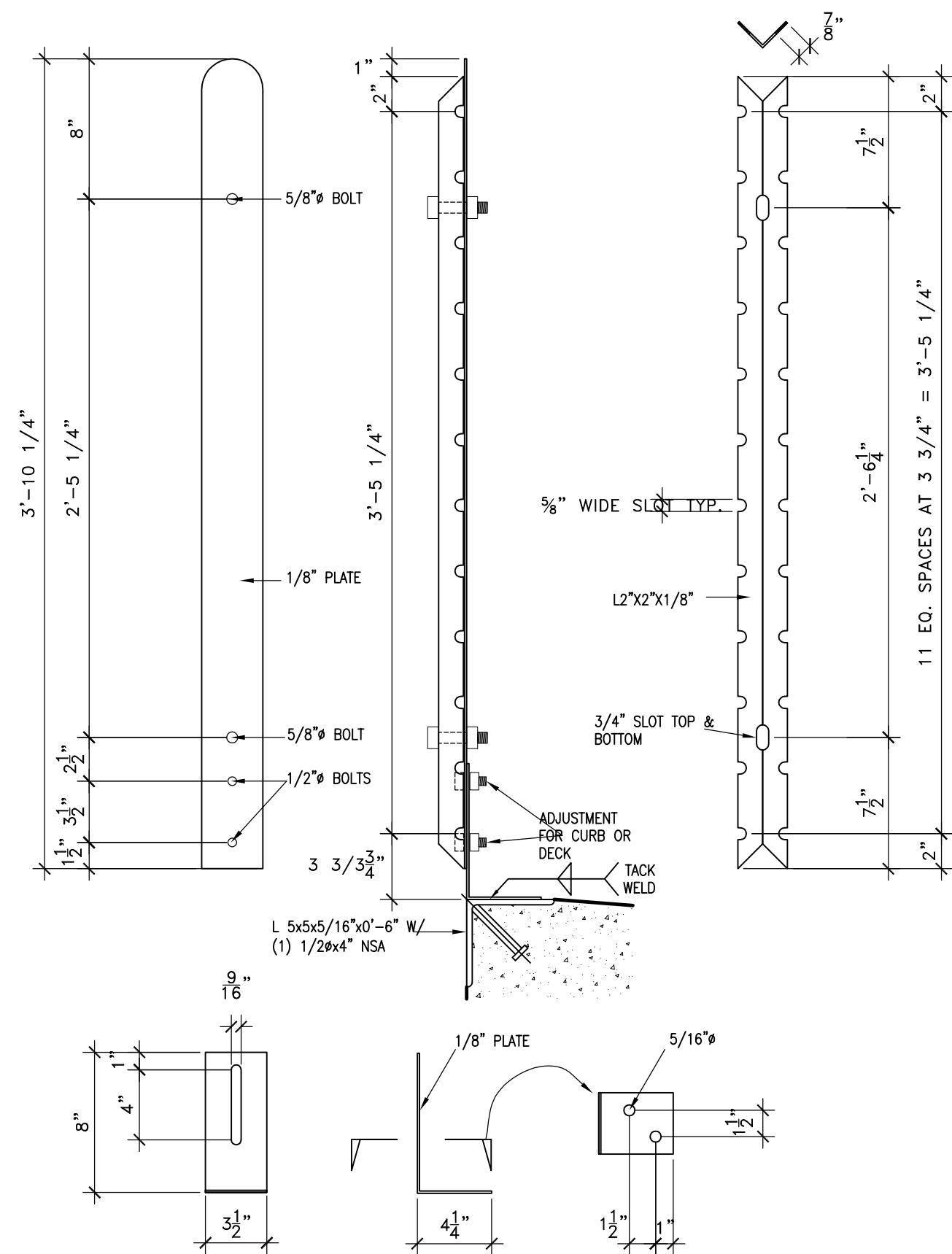
6"x6"x3/8" GALV STEEL PLATE WITH (2) 3/8" HSA WITH 3 1/2" MIN. EMBEDMENT. COORDINATE MOUNTING DETAIL AND LOCATIONS WITH STRUCTURAL TO MISS P.T. TENDONS.

NOTE:  
SUBMIT SHOP DRAWINGS, SHOW NON-CORROSIVE TOP & BOTTOM CONNECTIONS & METAL STRAP DETAILS FOR ARCHITECTS APPROVAL. GALVANIZE ENTIRE ASSEMBLY AFTER FABRICATION.

## EXIT SIGN AT RAILING

SCALE: NO SCALE

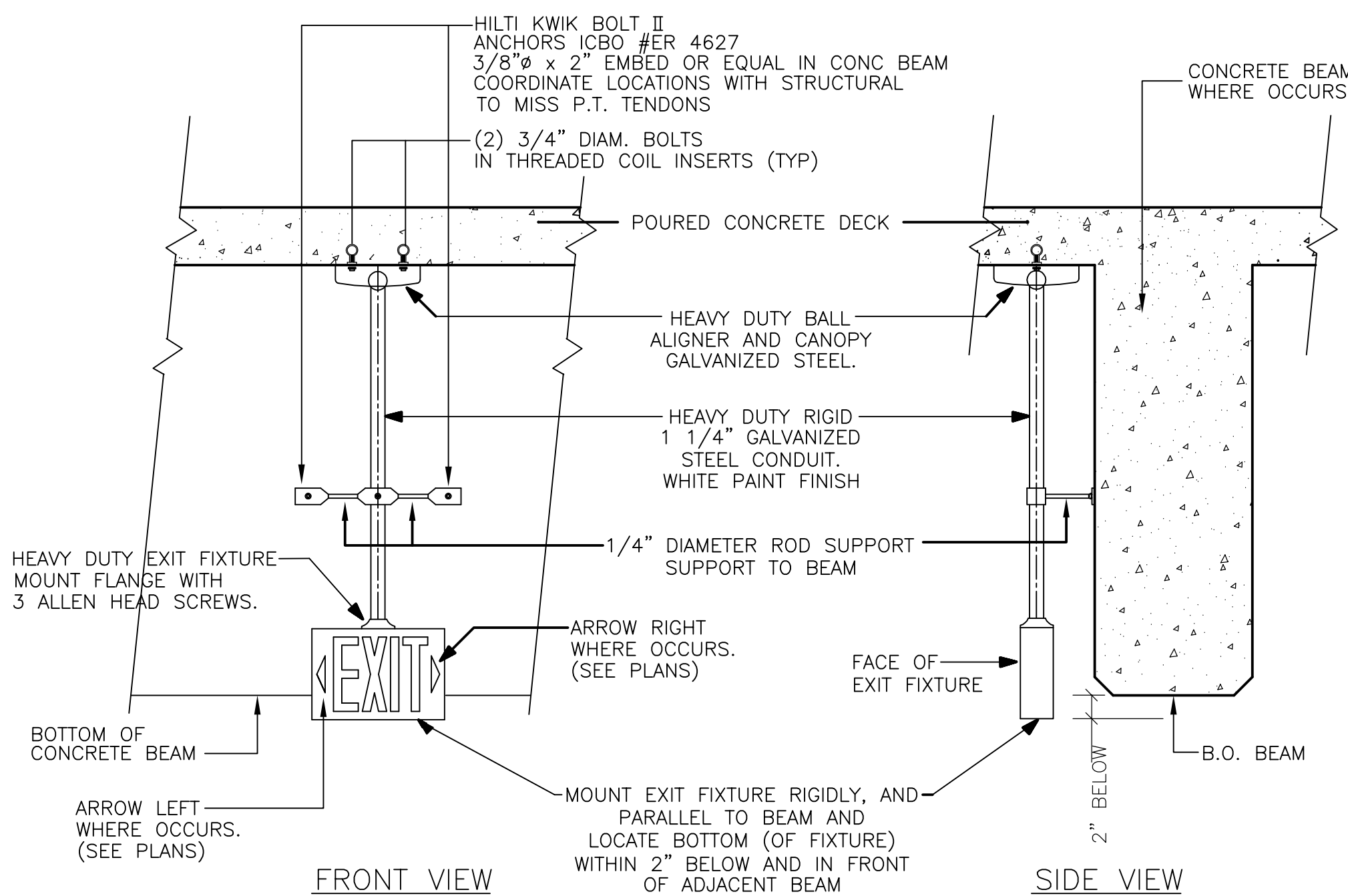
4



## CABLE BARRIER RAIL SUPPORT AT MIDSPAN

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

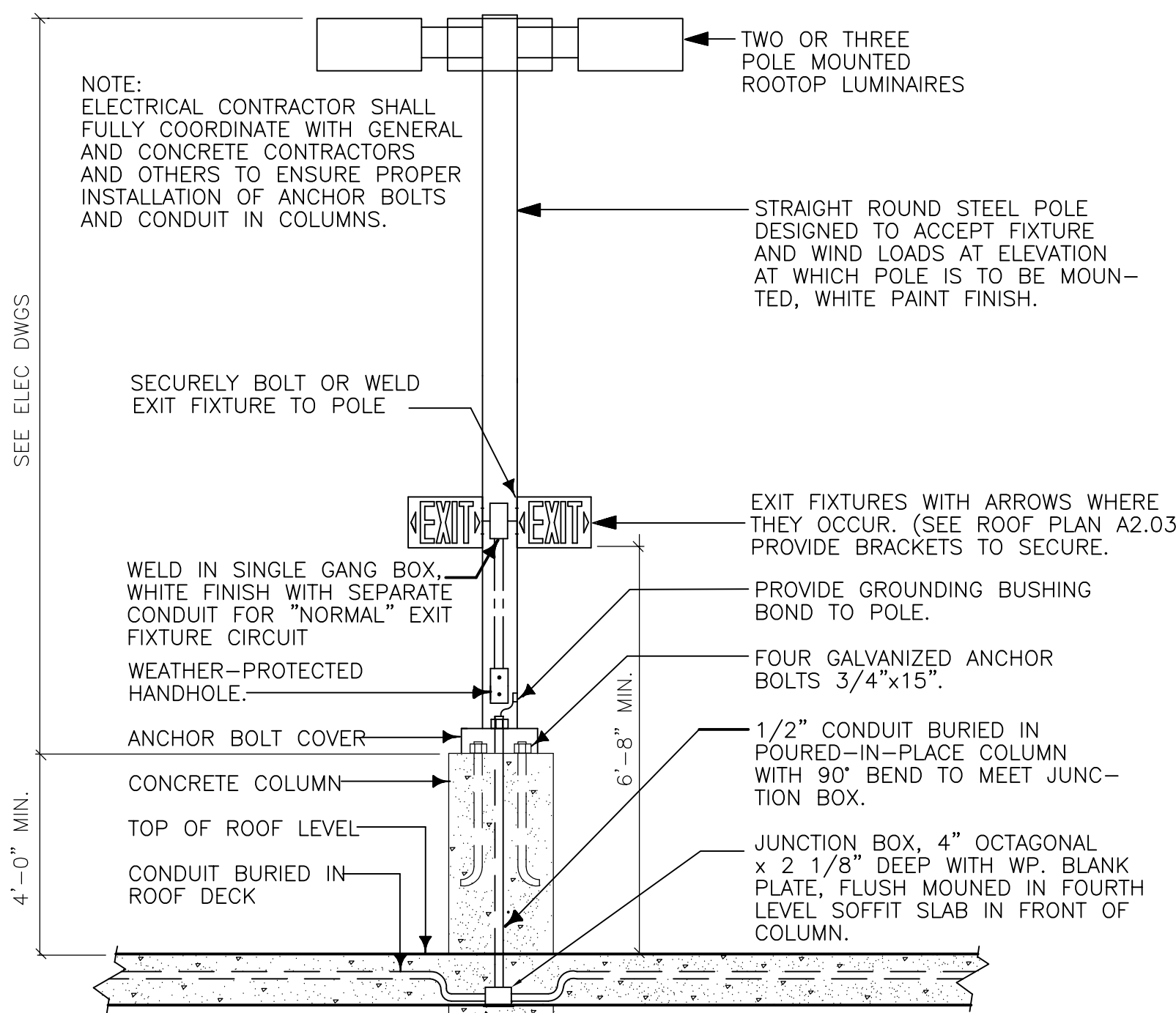
2



## EXIT SIGN AT BEAM

SCALE: NO SCALE

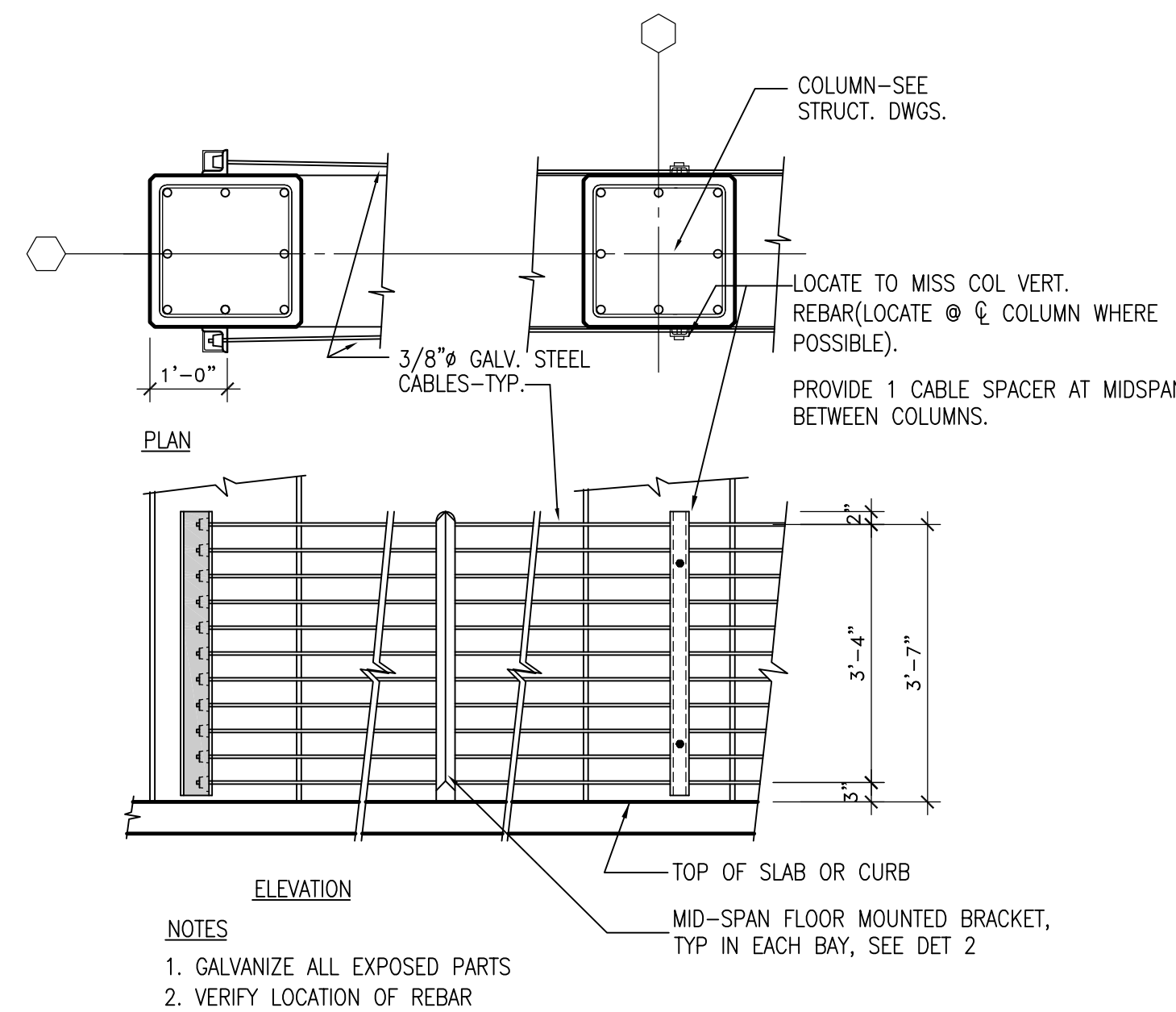
5



## LIGHT POLE BASE

SCALE: NO SCALE

3



## CABLE RAILING @ RAMP

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

1

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Revisions		
No.	Date	Description



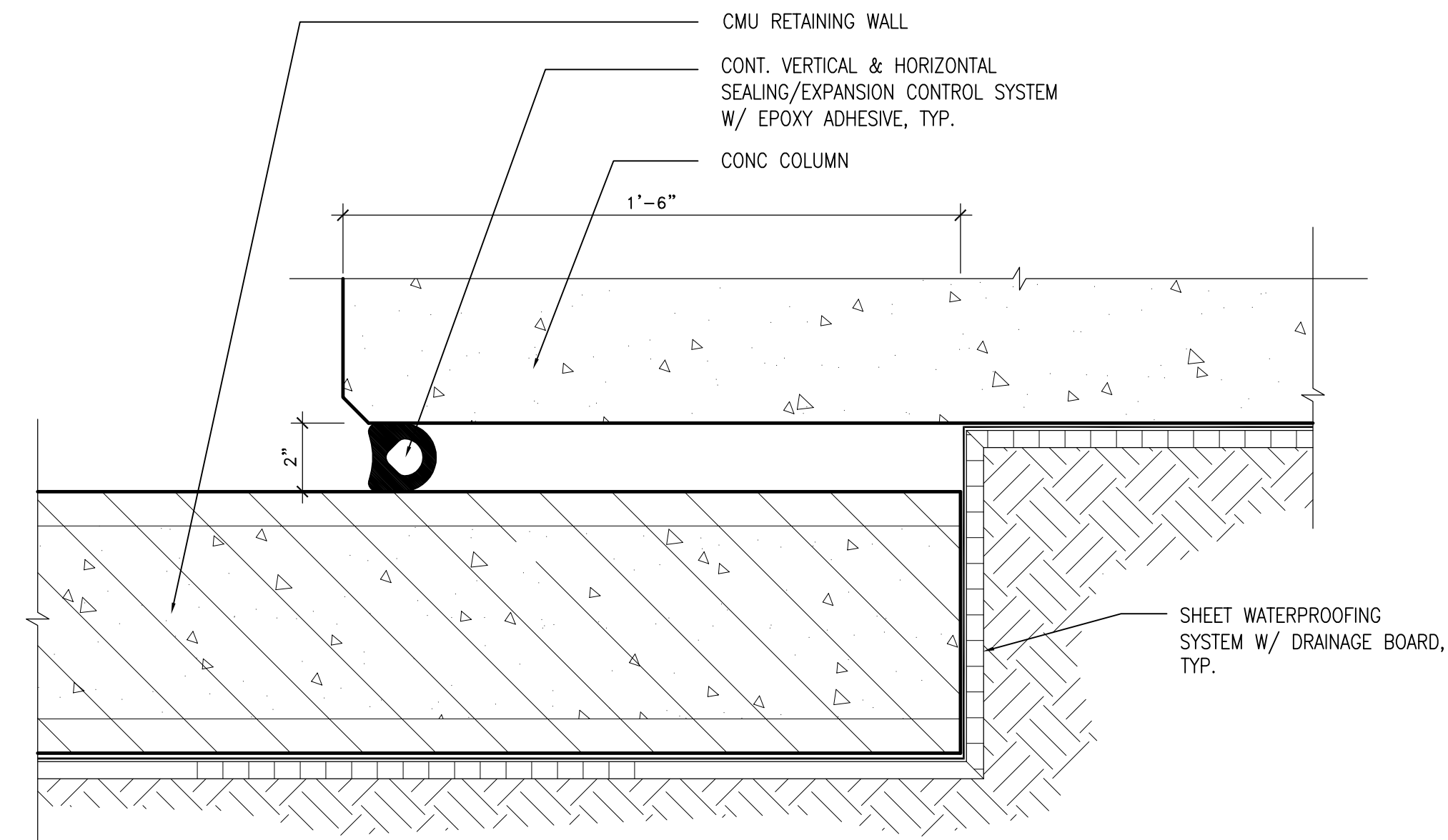
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Date:	MAY 24, 2018
PIC / AIC:	-
Drawn By:	VC
Checked By:	DV
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Project Title  
**TCMC PARKING  
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MAIN ENTRY**

Sheet Title  
**TYPICAL DETAILS**

Sheet Number

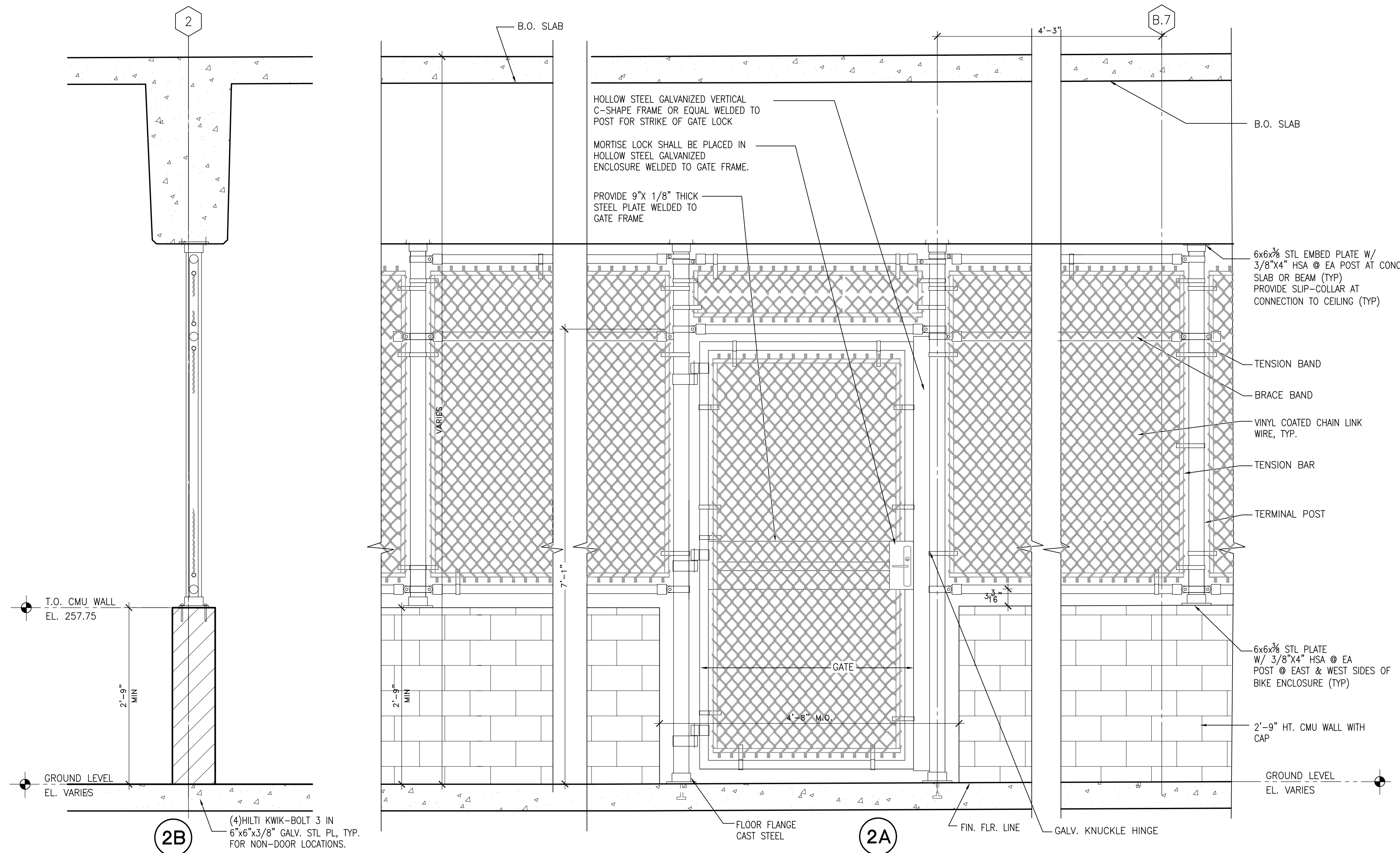
**A7.08**



## PLAN VIEW FLASHING AT CMU WALL

SCALE: 3" = 1'-0"

2



## CHAIN LINK FENCE & GATE

SCALE: 1" = 1'-0"

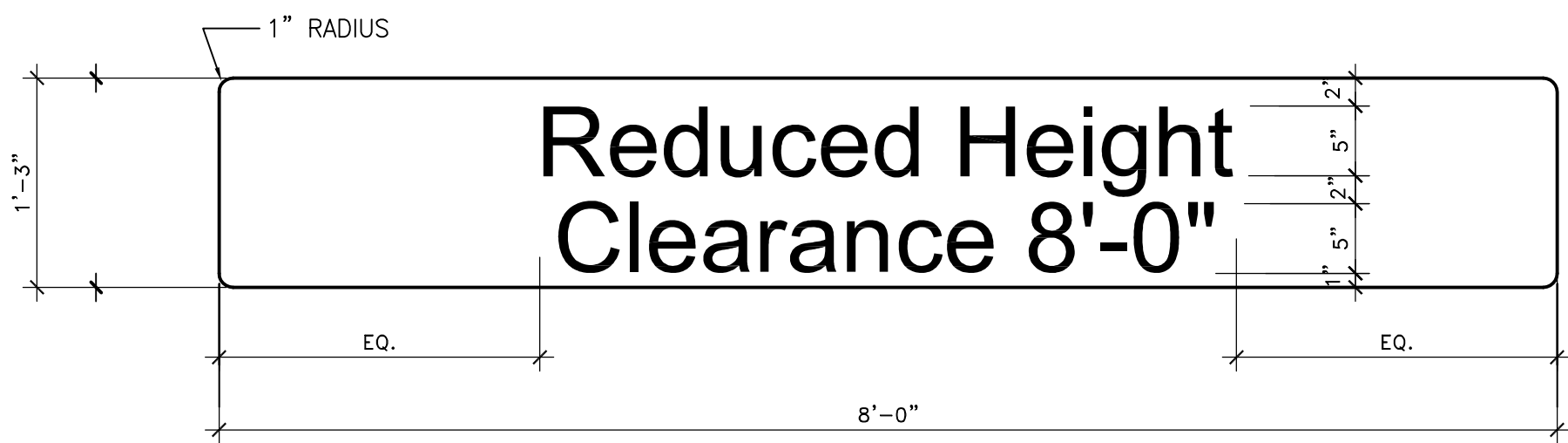
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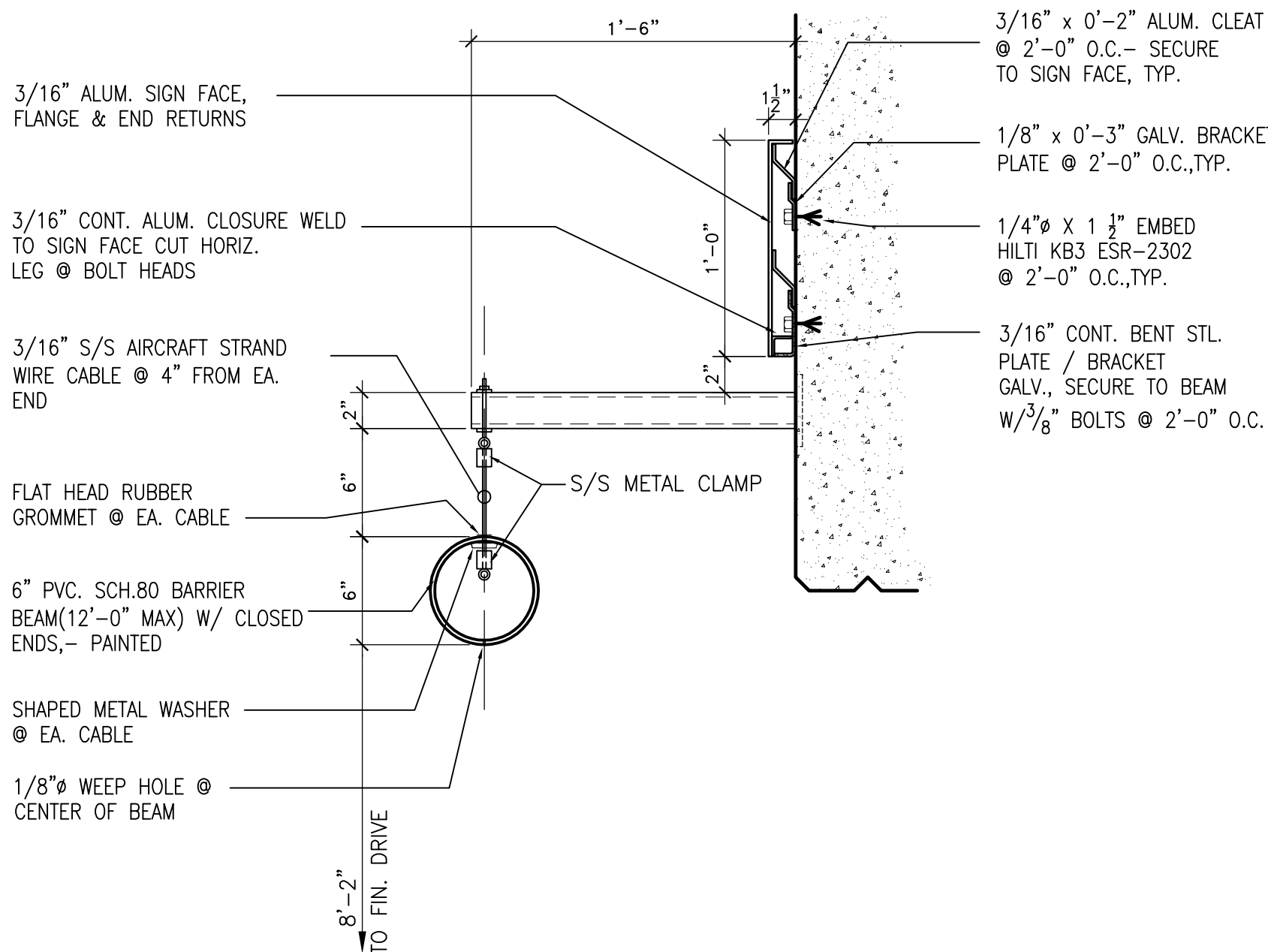






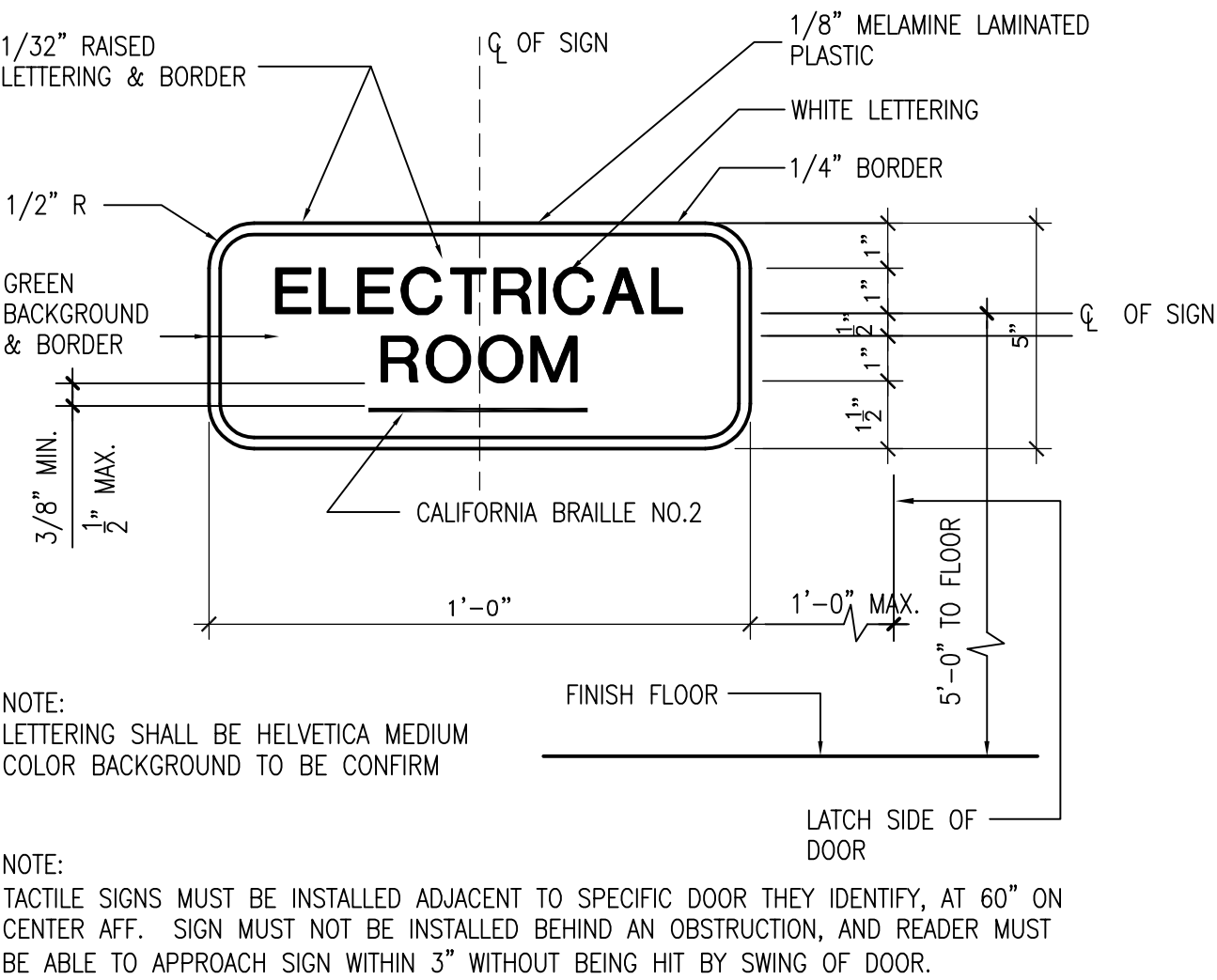
### SIGN DETAIL

SCALE: 1"= 1'-0"



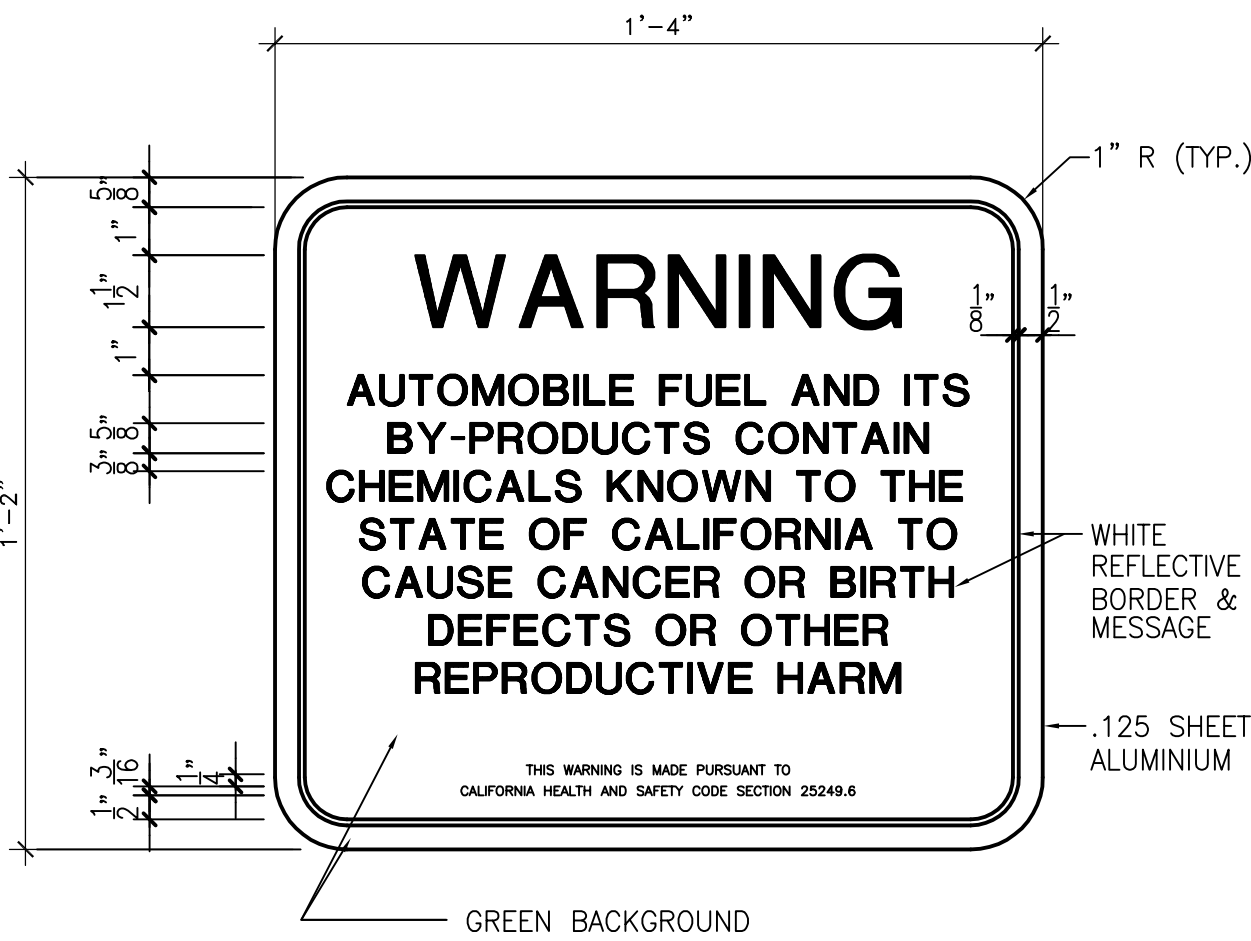
### BARRIER BEAM DETAIL

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



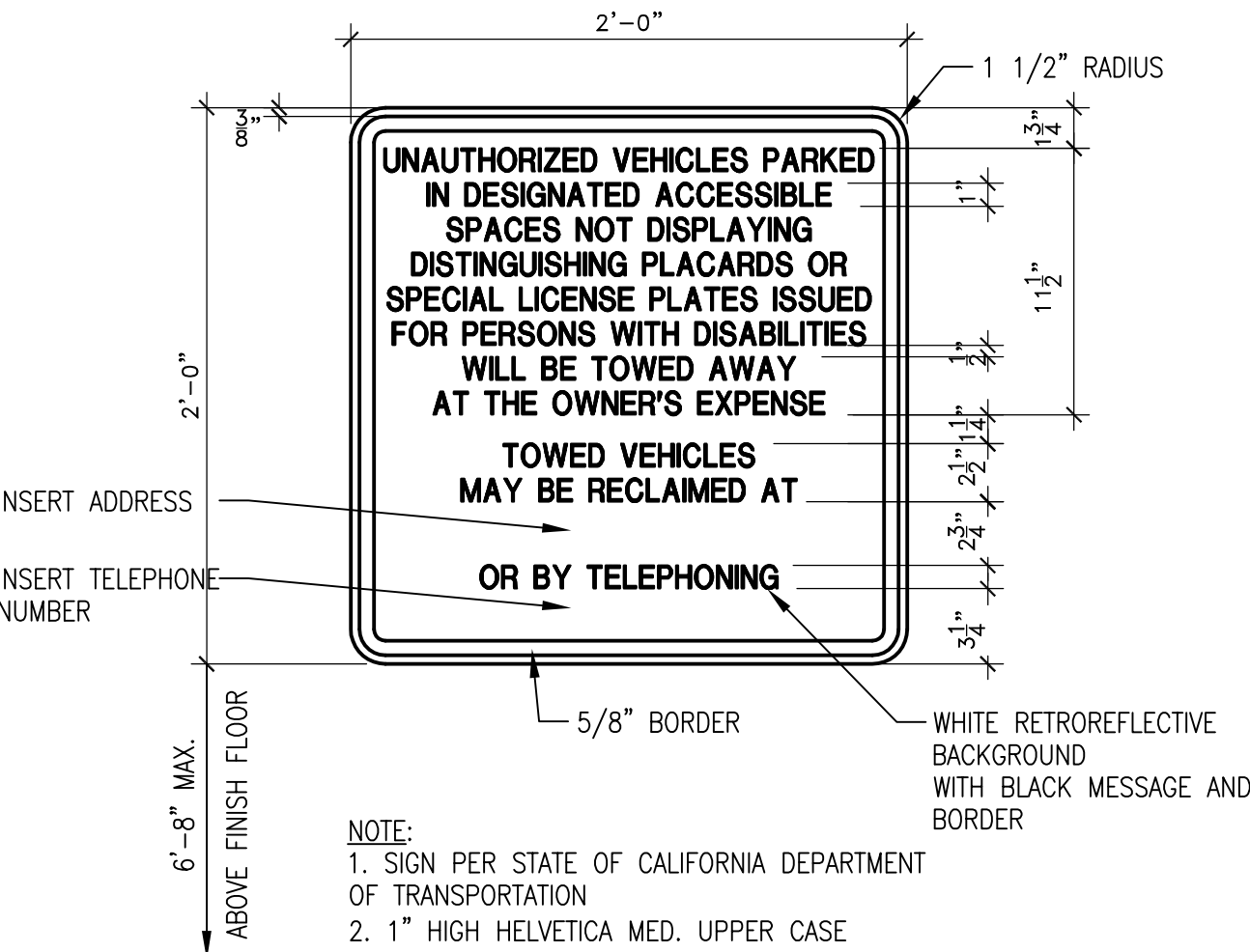
### SIGN DETAIL

SCALE: 3"=1'-0"



### SIGN DETAIL

SCALE: 3"=1'-0"



### SIGN DETAIL

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

# SIGNAGE AND GRAPHICS SCHEDULE

SIGN/GRAPHIC DESIGNATION	PLAN LOCATION (CONTRACTOR USE)	MESSAGE	DETAIL REFERENCE	BACKGROUND MATERIAL	BACKGROUND FINISH	SIZE	TYPE FACE	TYPE FACE MATERIAL/FINISH	COLOR				MOUNT	MOUNTING DETAIL	REMARKS
									MESSAGE/TEXT	LEVEL	COLOR	CODING			
S-1		Clearance 8'-2" Max. Vehicle Weight 6,000 lbs.	1	AL	P	11'-6" x 1'-0"	HM	V	DG	W	-	W/BL	SM	6	
S-2	EXIT		2	AL	P	8'-0" x 1'-0"	HM	V	DG	W	-	W/R	SM	6	
S-3	Unauthorized Vehicles Parked ..., - FOR MESSAGE REFER TO DETAIL		3	AL	P	2'-0" x 2'-0"	HM	V	W	B	-	-	SM	-	
S-4	WARNING AUTOMOBILE FUEL, - FOR MESSAGE REFER TO DETAIL		4	AL	P	1'-4" x 1'-2"	HM	SC	DG	W	-	-	SM	-	
S-5	ACCESSIBLE SIGN, - FOR MESSAGE REFER TO DETAIL		1 A9.02	AL	P	1'-0" x 2'-0"	HC	V	BL	W	-	W	SM	-	
S-6	ACCESSIBLE SIGN, - FOR MESSAGE REFER TO DETAIL		1 A9.02	AL	P	1'-0" x 2'-0"	HC	V	BL	W	-	W	C-BR-H	3 A9.02	
S-7	VAN ACCESSIBLE SIGN, - FOR MESSAGE REFER TO DETAIL		2 A9.02	AL	P	1'-0" x 2'-0"	HC	V	BL	W	-	W	C-BR-H	3 A9.02	
S-8	VAN ACCESSIBLE SIGN, - FOR MESSAGE REFER TO DETAIL		2 A9.02	AL	P	1'-0" x 2'-0"	HC	V	BL	W	-	W	SM	-	
S-9	ELECTRICAL ROOM		5	MPL	P	1'-0" x 5"	HM	RI	DG	W	-	-	SM	-	
S-10	STORAGE ROOM		5	MPL	P	1'-0" x 5"	HM	RI	DG	W	-	-	SM	-	
S-11	ELEVATOR CONTROL ROOM		5	MPL	P	1'-0" x 6 1/2"	HM	RI	DG	W	-	-	SM	-	
S-12	REDUCED HEIGHT CLEARANCE 8'-0"		7	AL	P	8'-0" x 1'-3"	HM	V	DG	W	-	-	SM	-	
S-13	ACCESSIBLE SIGN, - FOR MESSAGE REFER TO DETAIL		4 A9.02	AL	P	1'-0" x 1'-5 1/2"	HC	V	BL	W	-	W	C-BR-H	3 A9.02	
S-14	VAN ACCESSIBLE SIGN, - FOR MESSAGE REFER TO DETAIL		5 A9.02	AL	P	1'-0" x 1'-5 1/2"	HC	V	BL	W	-	W	C-BR-H	3 A9.02	

<b>A</b> MATERIAL TYPES/FINISH:	<b>C</b> TYPE FACE:
AL/MTL - ALUMINIUM/METAL, GALV.	HB - HELVETICA BOLD
C - CONCRETE	HC - HELVETICA COMPACT
FB - FIBERBOARD, EXTERIOR TYPE	HM - HELVETICA MEDIUM
FG - FIBERGLASS	
MP - METAL PAINTED	
MPL - MELAMINE PLASTIC LAMINATE	
P - PAINTED SURFACE	<b>D</b> MOUNT:
PF - PAINTED FRISKET METHOD	C-CH-H - CEILING CHAIN HUNG
RI - RAISED, INTEGRAL	C-CA-H - CEILING CABLE HUNG
SC - SILK SCREENED	C-BR-H - CEILING BRACKET HUNG
STL C - STEEL CHANNEL	PM - POST MOUNTED
STL - STEEL PRIMED	SM - SURFACE MOUNTED
V* - DIE CUT VINYL	

<b>B</b> BACKGROUND/TEXT/COPY		
BL - BLACK	R - RED	R - RED
BL - BLUE	W - WHITE	W - WHITE
BR - BROWN	Y - YELLOW	DG - DARK GREEN

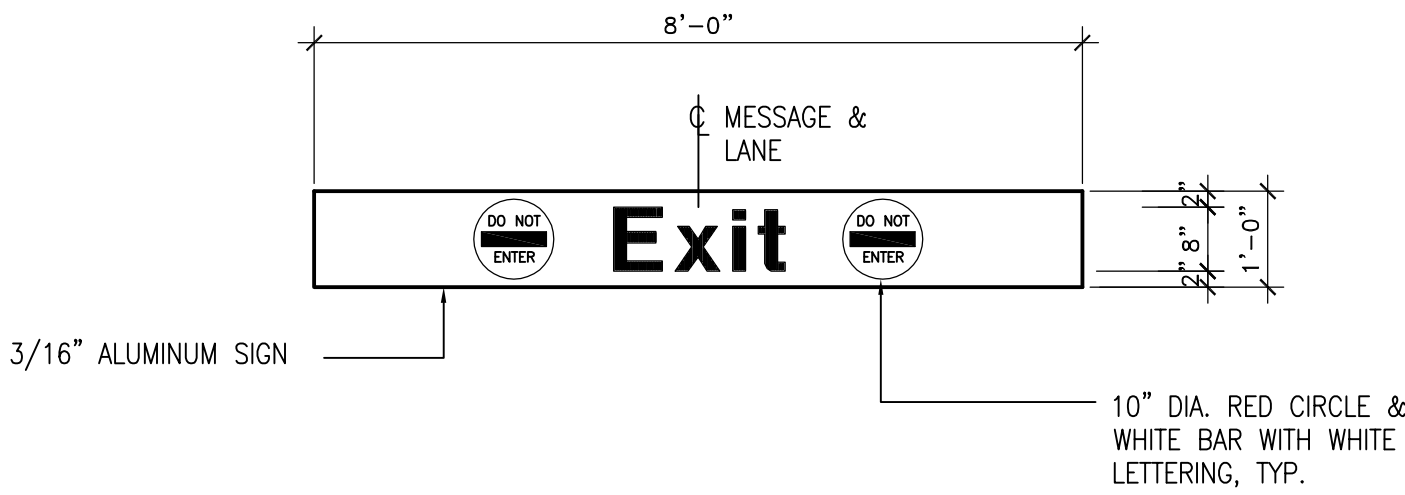
<b>E</b> LEGEND:
• FOR SIGN & GRAPHIC LOCATIONS REFER TO FLOOR PLANS
<span style="border: 1px solid black; padding: 2px;">S-1</span> — INDICATES SIGN DESIGNATION

**G** \*NOTE:

1. COPY SHALL BE 3M SCOTCH CAL SELF-ADHERING DIE-CUT VINYL OR APPROVED EQUAL.
2. FOR ADDITIONAL INFORMATION REFER TO SPECIFICATION.
3. 70 % MIN. CONTRAST VALUE FOR 2 COLOR SIGNS.
4. ALL BLUE BACKGROUNDS FOR ACCESSIBLE SIGNS SHALL BE FEDERAL BLUE (COLOR #15090 PER STANDARD 595B TYP.)
5. ALL BRAILLE ON SIGNS SHALL BE CALIFORNIA BRAILLE NO. 2
6. FINAL GRAPHIC CONSULTANT SHALL CONFIRM AND APPROVE FINAL SIGN DESIGN INCLUDING COLOR, TYPEFACE, MATERIAL, SIZE PRIOR TO EXECUTION OF ANY FINISH WORK.

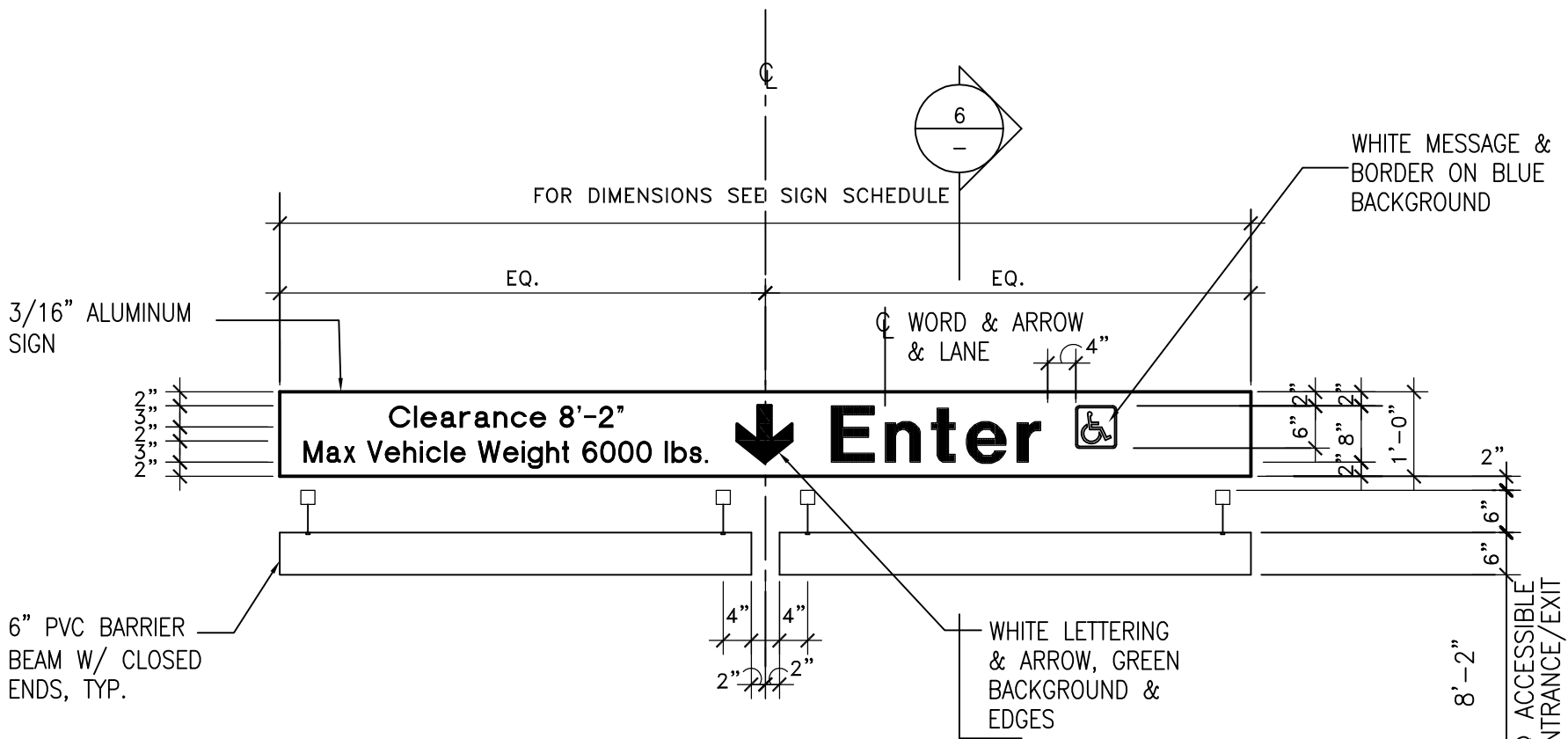
**F** • PROJECT COLORS: ALL COLORS SHALL BE CONFIRMED & APPROVED BY THE OWNER PRIOR TO EXECUTION OF ANY FINISH WORK. COLORS MAY BE CHANGED PRIOR TO FABRICATION/EXECUTION OF WORK.

- (A) MATERIAL TYPES/FINISH:**  
 AL/MTL - ALUMINIUM/METAL, GALV.  
 C - CONCRETE  
 FB - FIBERBOARD, EXTERIOR TYPE  
 FG - FIBERGLASS  
 MP - METAL PAINTED  
 MPL - MELAMINE PLASTIC LAMINATE  
 P - PAINTED SURFACE  
 PF - PAINTED FRISKET METHOD  
 RI - RAISED, INTEGRAL  
 SC - SILK SCREENED  
 STL C - STEEL CHANNEL  
 STL - STEEL PRIMED  
 V\* - DIE CUT VINYL
- (B) BACKGROUND/TEXT/COPY**  
 B BLACK  
 BL BLUE  
 BR BROWN  
 R RED  
 W WHITE  
 Y YELLOW  
 R RED  
 W WHITE  
 DG DARK GREEN
- (C) TYPE FACE:**  
 HB - HELVETICA BOLD  
 HC - HELVETICA COMPACT  
 HM - HELVETICA MEDIUM
- (D) MOUNT:**  
 C-CH-H - CEILING CHAIN HUNG  
 C-CA-H - CEILING CABLE HUNG  
 C-BR-H - CEILING BRACKET HUNG  
 PM - POST MOUNTED  
 SM - SURFACE MOUNTED
- (E) LEGEND:**  
 • FOR SIGN & GRAPHIC LOCATIONS REFER TO FLOOR PLANS  
 S-1 - INDICATES SIGN DESIGNATION
- (F) PROJECT COLORS:** ALL COLORS SHALL BE CONFIRMED & APPROVED BY THE OWNER PRIOR TO EXECUTION OF ANY FINISH WORK. COLORS MAY BE CHANGED PRIOR TO FABRICATION/EXECUTION OF WORK.
- (G) \*NOTE:**  
 1. COPY SHALL BE 3M SCOTCH CAL SELF-ADHERING DIE-CUT VINYL OR APPROVED EQUAL.  
 2. FOR ADDITIONAL INFORMATION REFER TO SPECIFICATION.  
 3. 70 % MIN. CONTRAST VALUE FOR 2 COLOR SIGNS.  
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 6. FINAL GRAPHIC CONSULTANT SHALL CONFIRM AND APPROVE FINAL SIGN DESIGN INCLUDING COLOR, TYPEFACE, MATERIAL, SIZE PRIOR TO EXECUTION OF ANY FINISH WORK.



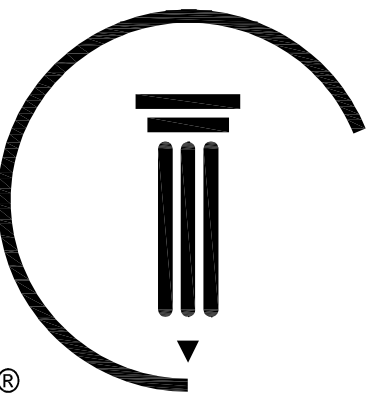
### CLEARANCE BARRIER SIGN DETAIL AT EXIT

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



### CLEARANCE BARRIER SIGN DETAIL AT ENTRY

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



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**Project Title**  
 TCMC PARKING  
 STRUCTURE AND  
 MAIN ENTRY

**Sheet Title**  
 SIGNAGE & GRAPHICS  
 SCHEDULE

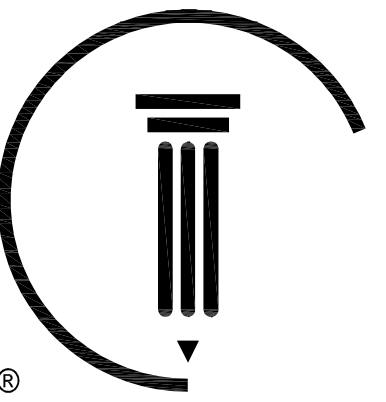
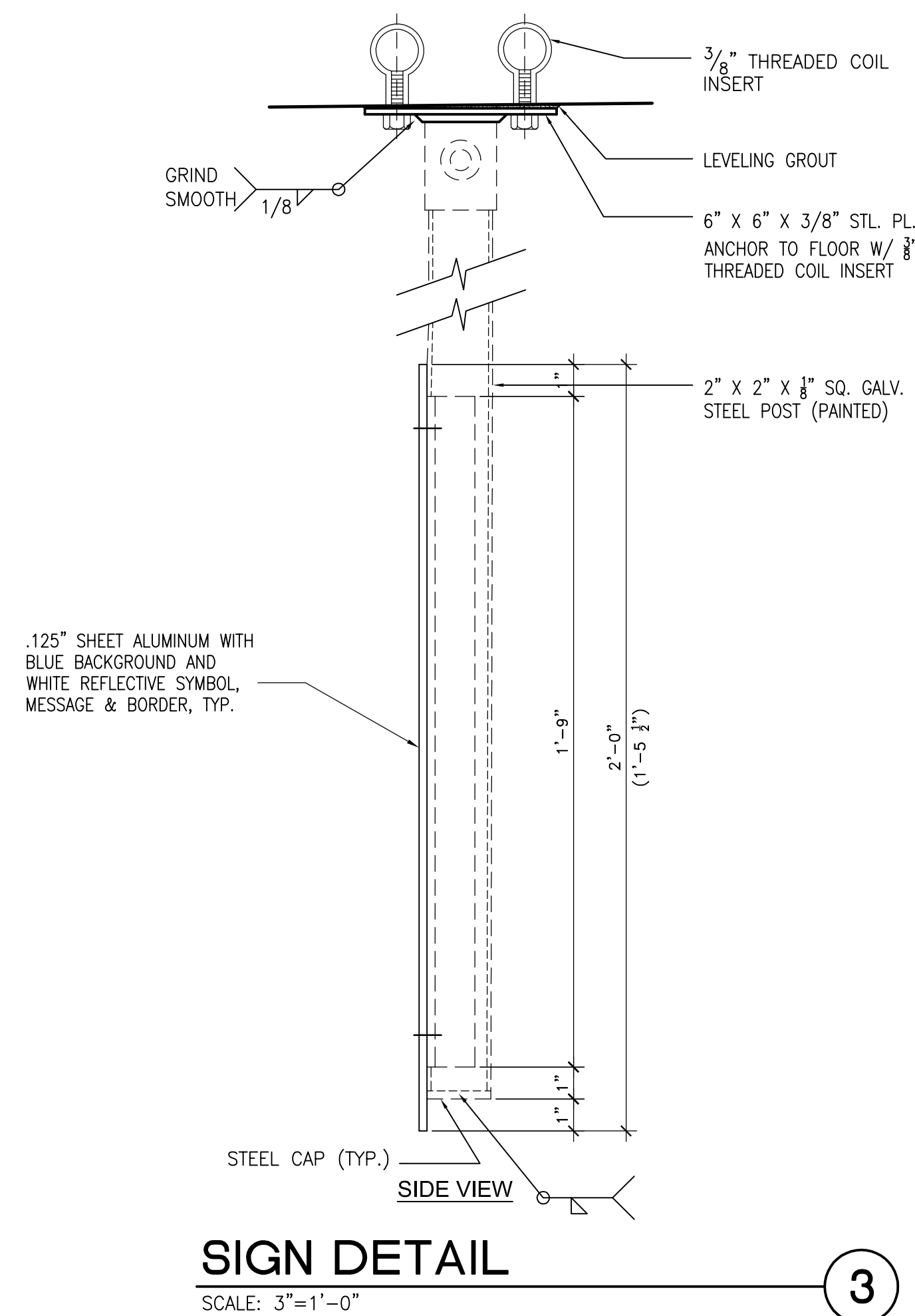
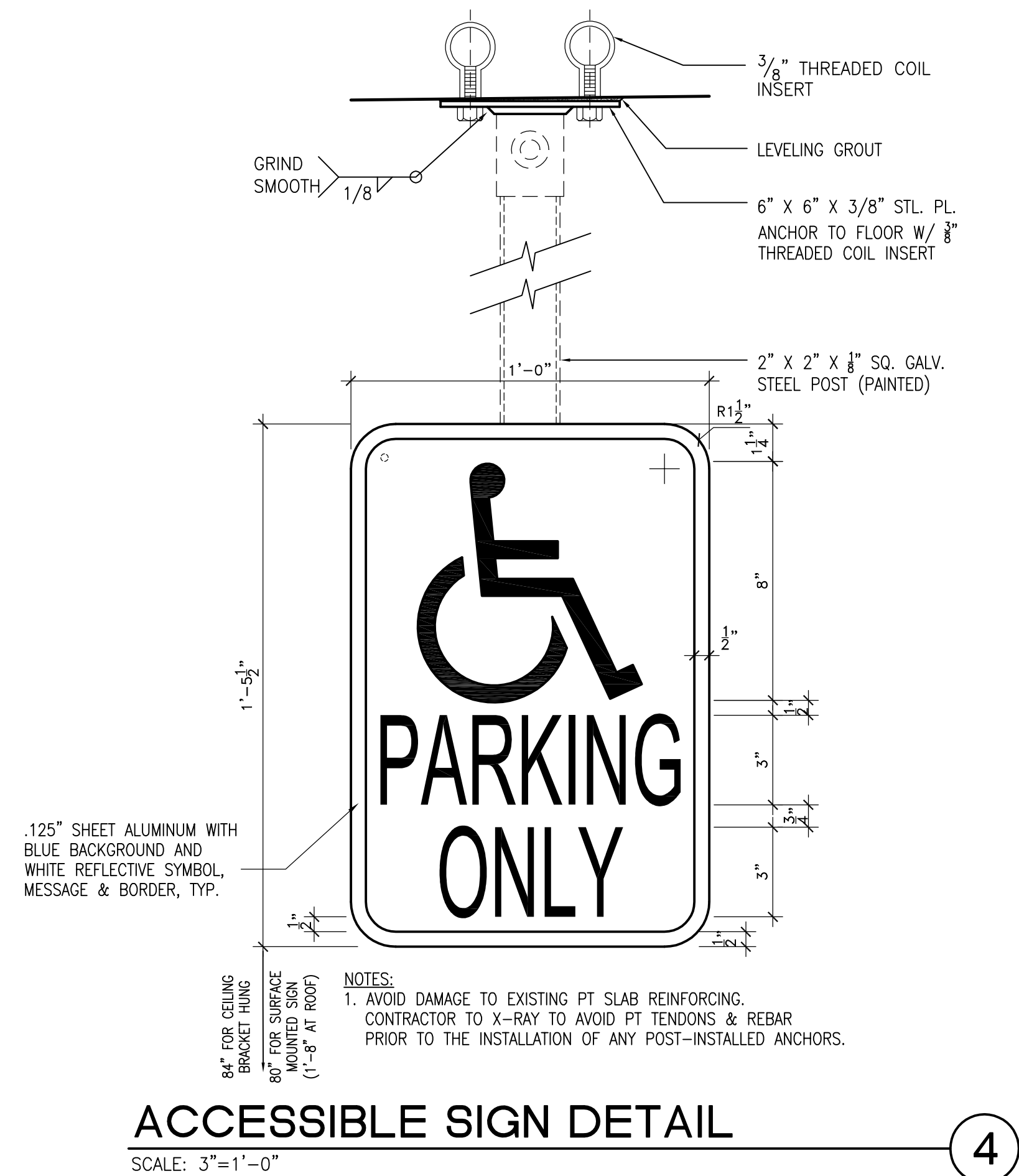
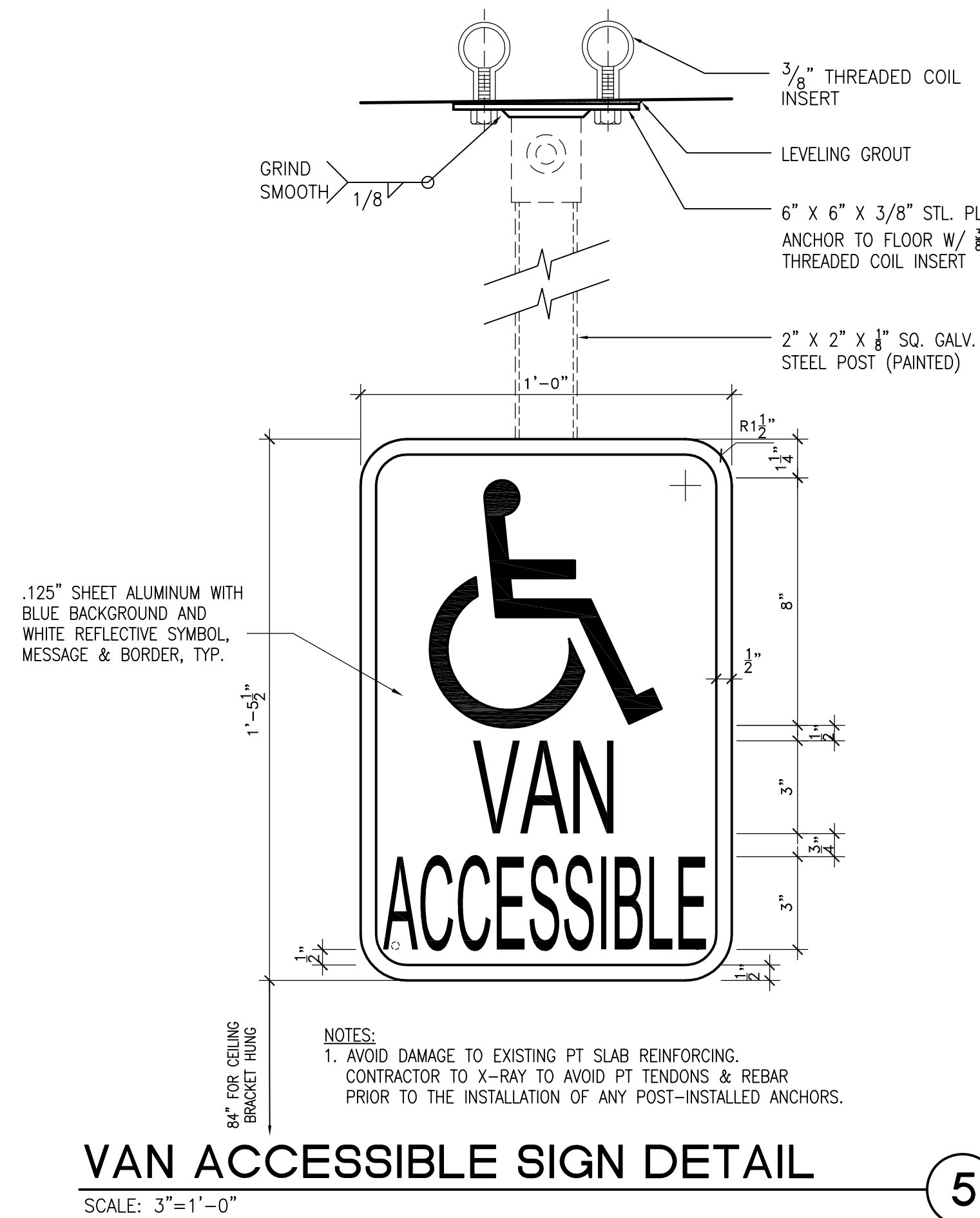
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Document Phase:	Backcheck #1
Date:	MAY 24, 2018
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Comm. No.:	-

## CMC PARKING STRUCTURE AND MAIN ENTRY

## SIGNAGE DETAILS

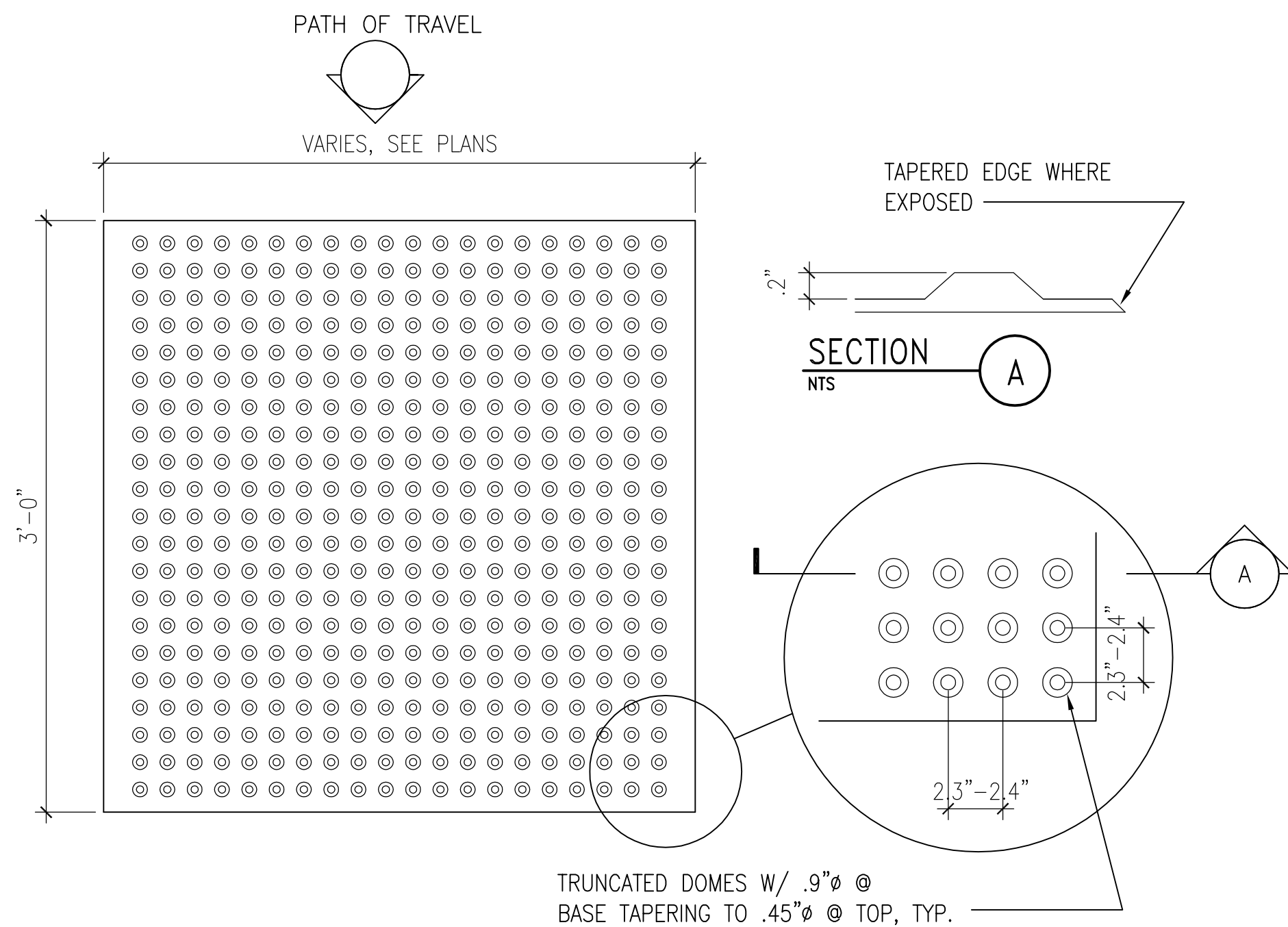
Sheet Number

## A9.02

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1317-166012-188-Traffic-PAVING-Architectural-Documents\A9.03.dwg, 9/18/18, 10/12/2018 9:50:04 AM, Markham P&S, ARCS, C:\JAMES\_C\36123.dwg, 1:1



### TRUNCATED DOMES

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

9

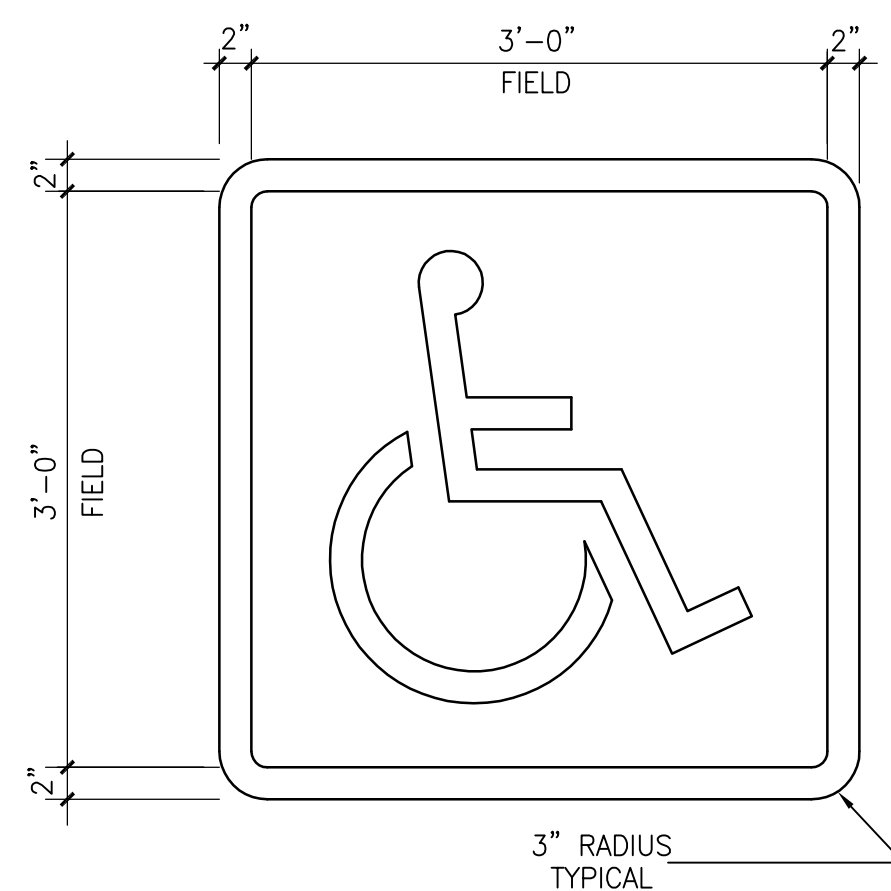


STENCIL PAINT MESSAGE DIRECTLY ON FLOOR SLAB WITH "TRAFFIC WHITE" REFLECTORIZED PAINT

### "No Parking" LETTERING DETAIL

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

8

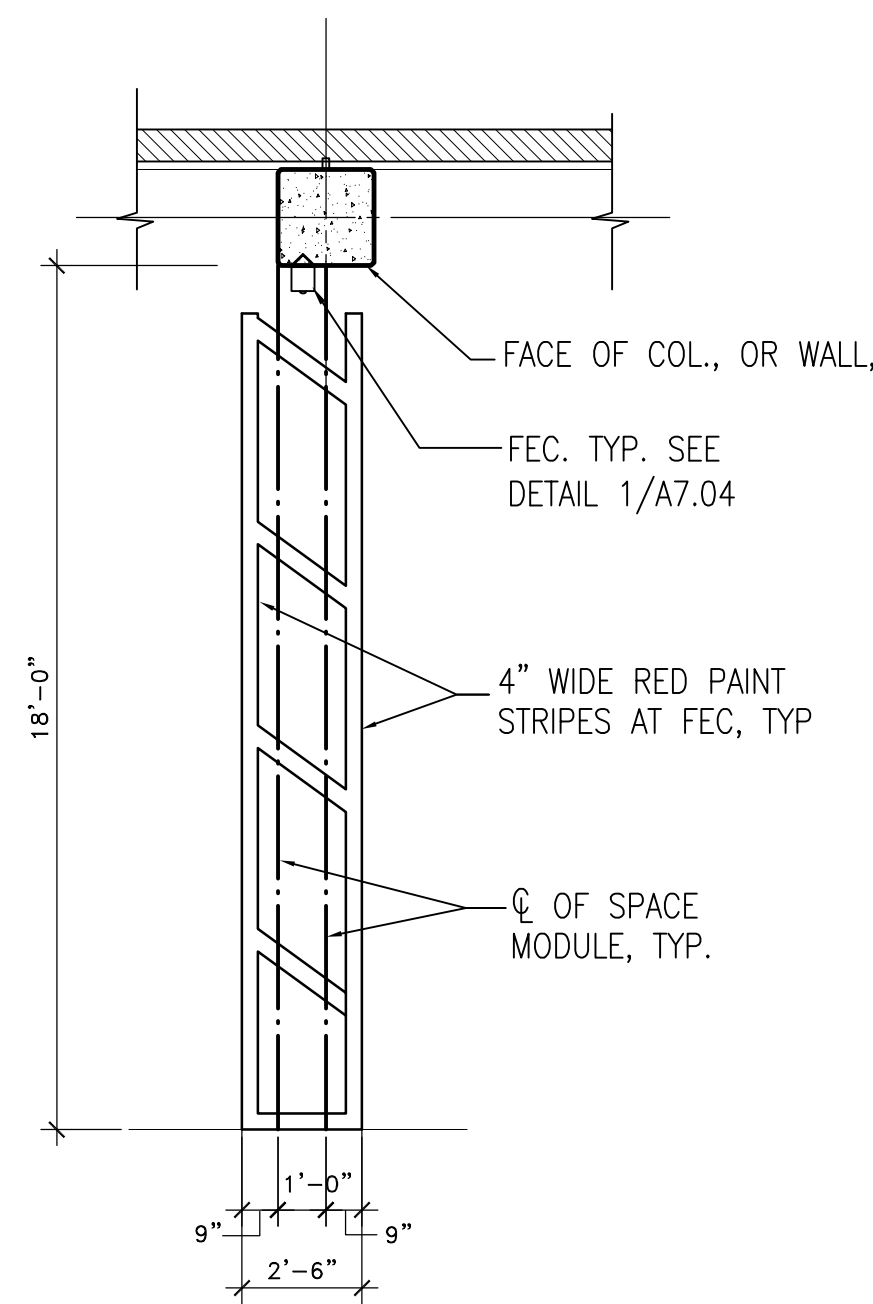


- BORDER AND IMAGE TO BE STENCIL PAINTED WITH WHITE REFLECTORIZED TRAFFIC PAINT
- BACKGROUND TO BE BLUE

### ACCESSIBLE FLOOR SYMBOL

SCALE: 1" = 1'-0"

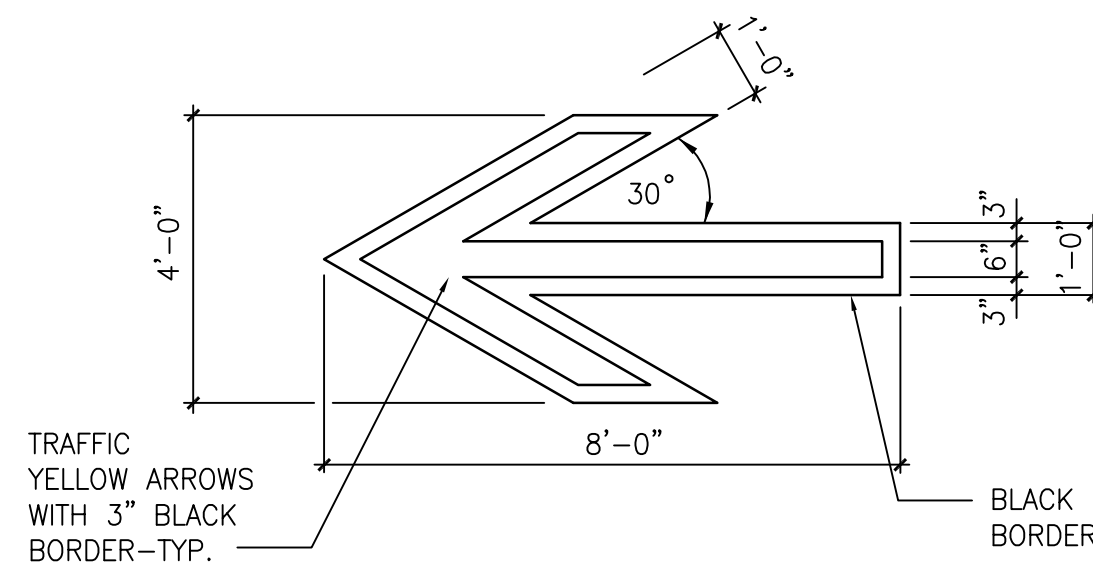
7



### DOUBLE LINE STRIPING @ FIRE EXTINGUISHER CABINET

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

6

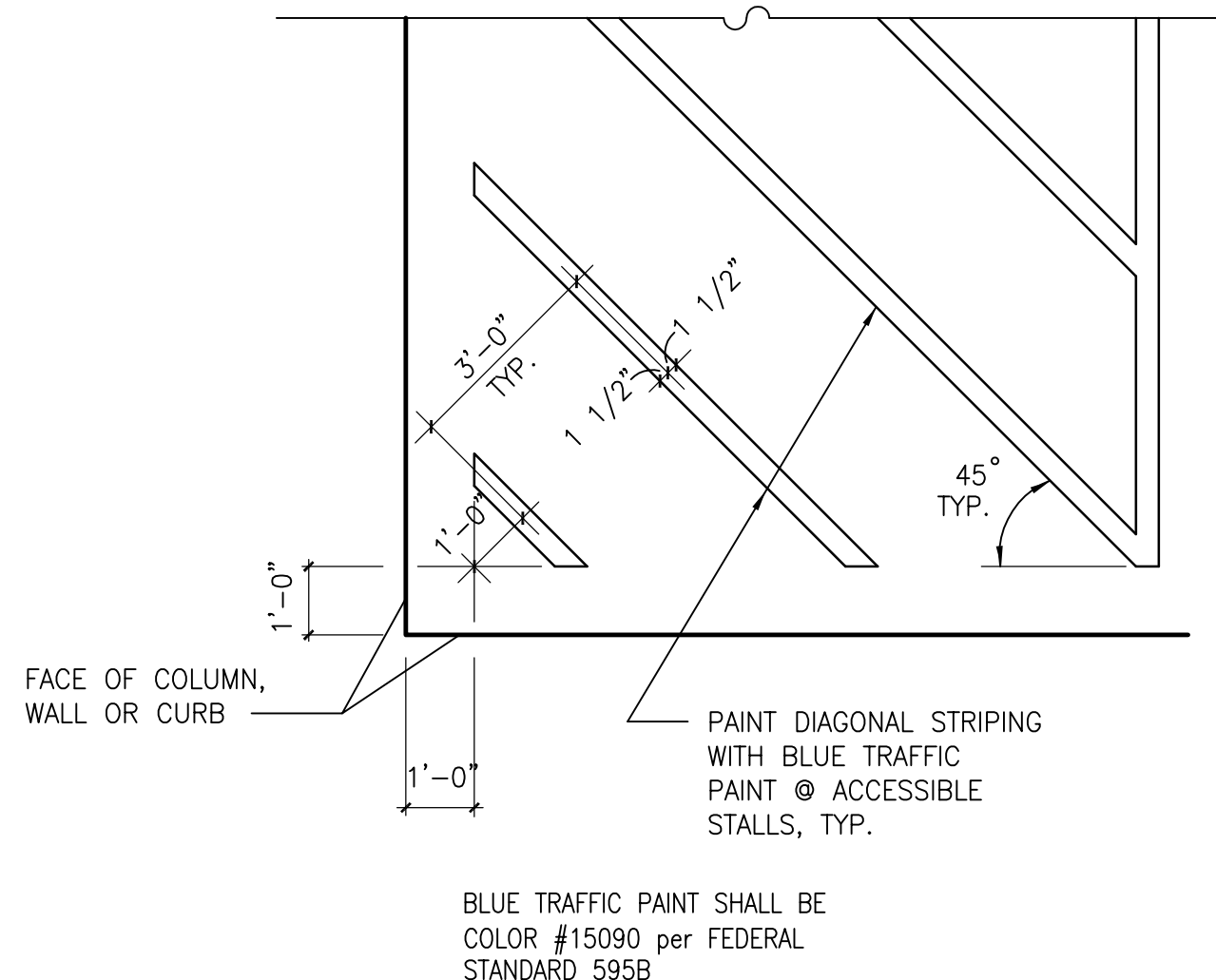


NOTE: STENCIL PAINT DIRECTLY ON FLOOR SLAB W/ REFLECTORIZED PAINT

### PAINTED DIRECTIONAL ARROWS

SCALE: 3/8" = 1'-0"

5

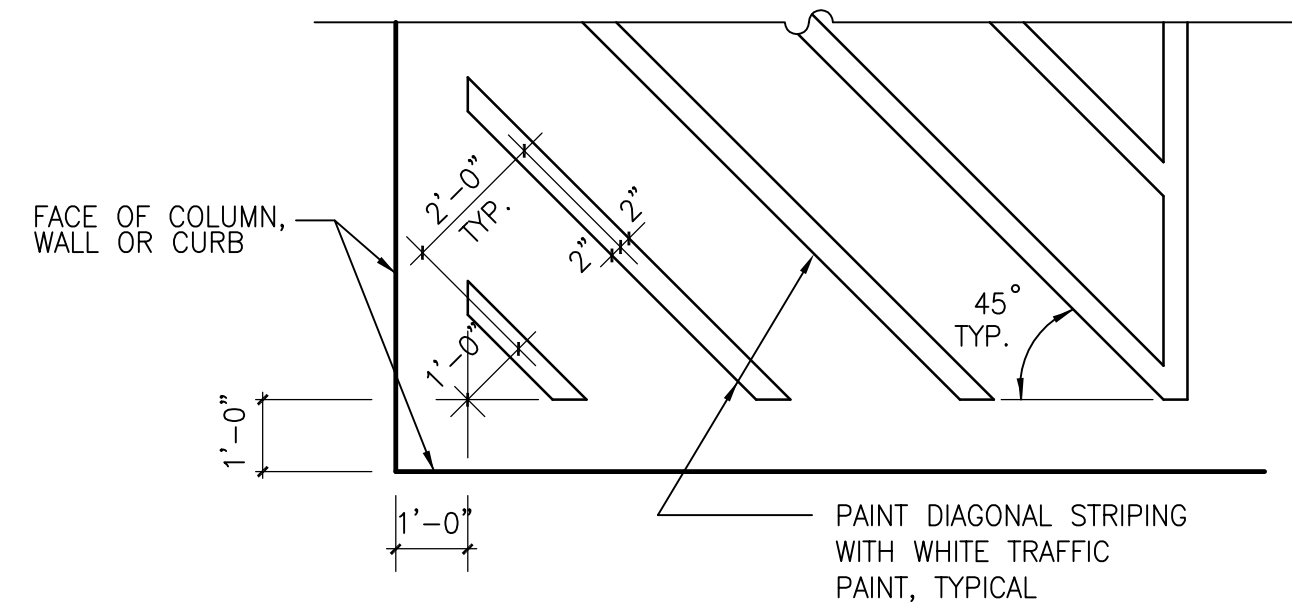


BLUE TRAFFIC PAINT SHALL BE COLOR #15090 per FEDERAL STANDARD 595B

### TYPICAL ACCESSIBLE DIAGONAL STRIPING

SCALE: 3/8" = 1'-0"

4

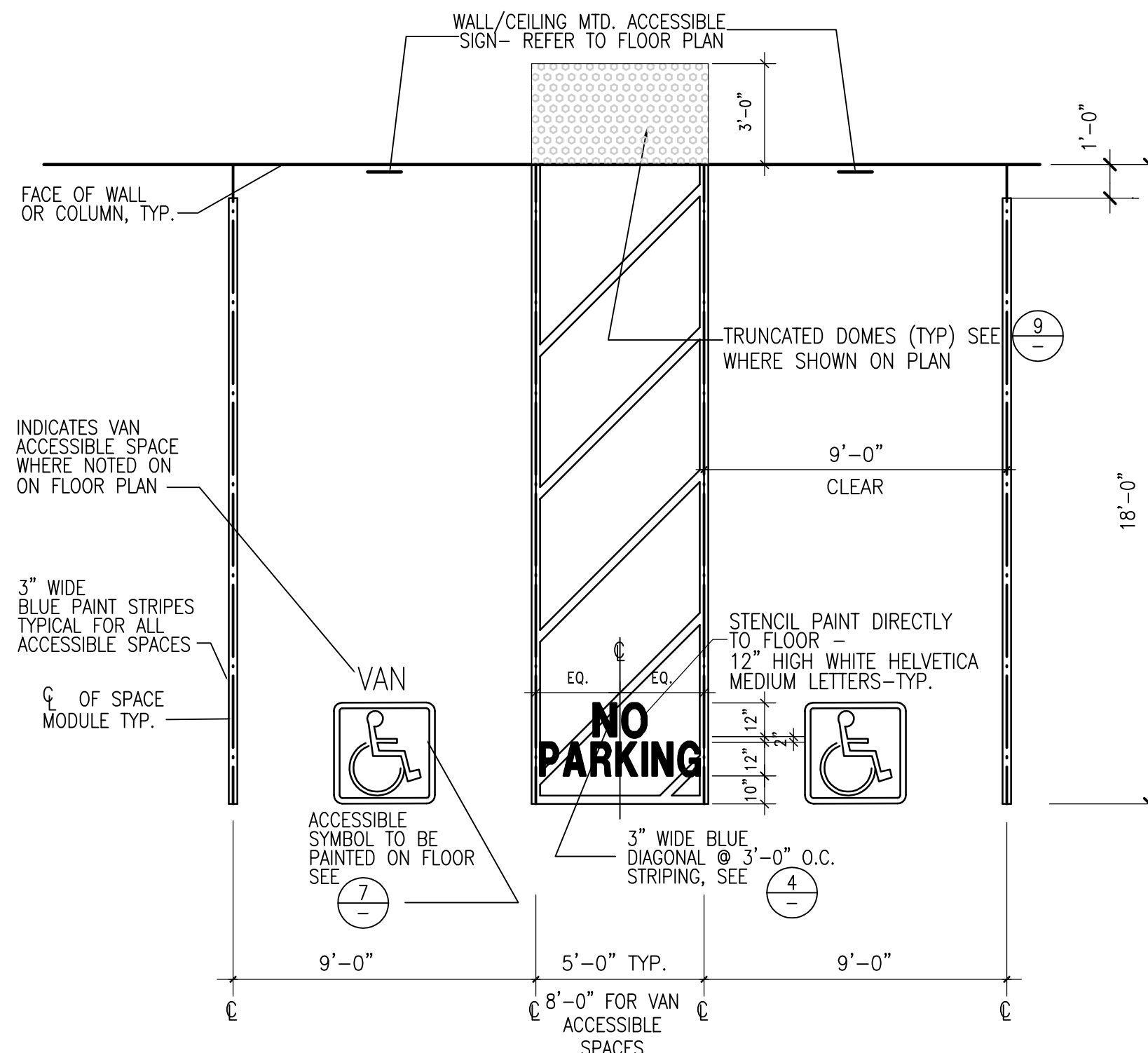


NOTE: PAINT STRIPING BLUE @ ACCESSIBLE AREAS

### TYPICAL DIAGONAL STRIPING

SCALE: 3/8" = 1'-0"

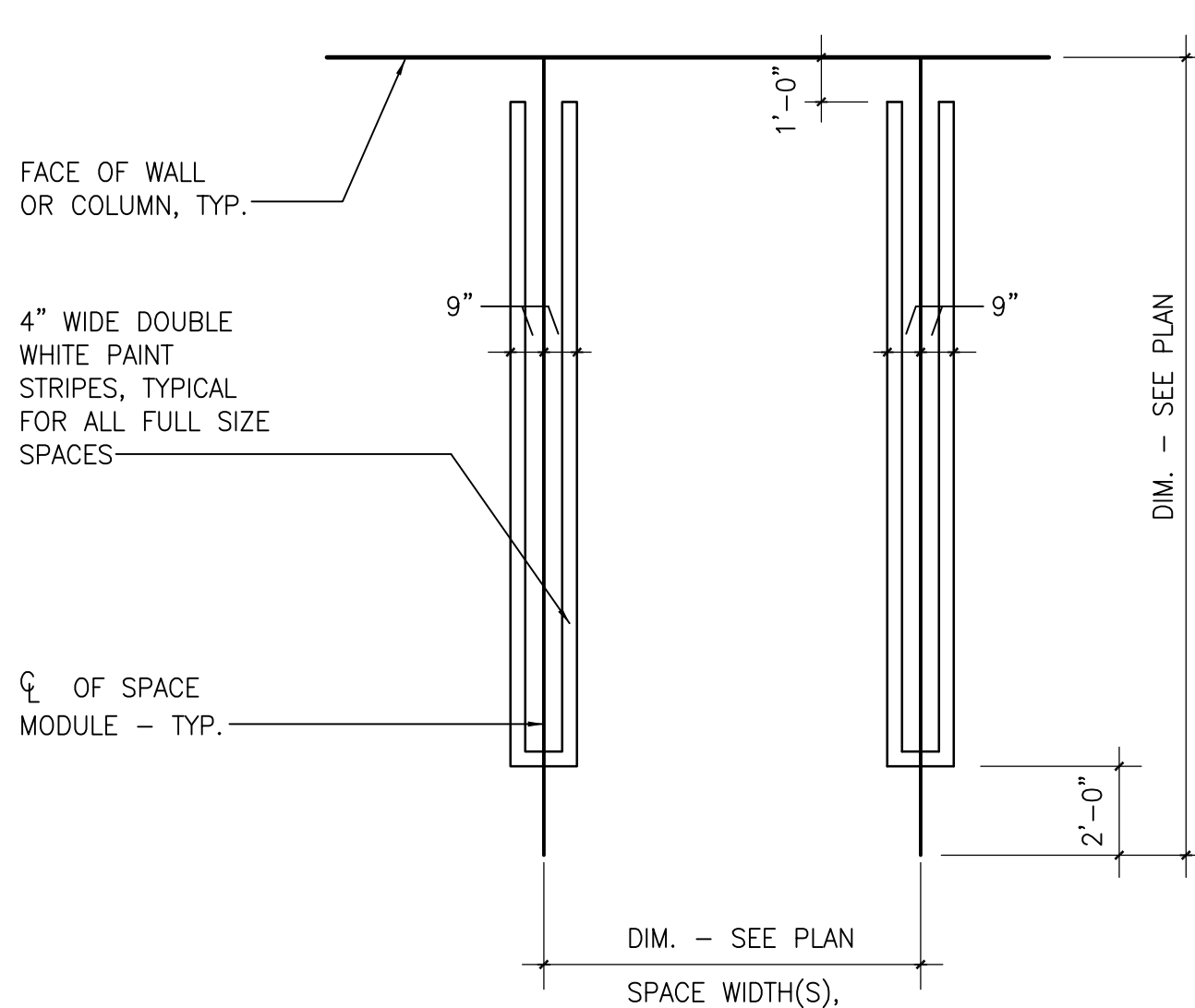
3



### ACCESSIBLE SPACE STRIPING @ 90°

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

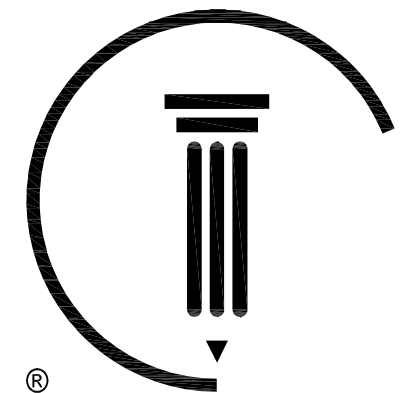
2



### DOUBLE LINE STRIPING AT 90

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

1



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Project Title

TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY

Sheet Title

TYPICAL STRIPING  
DETAILS

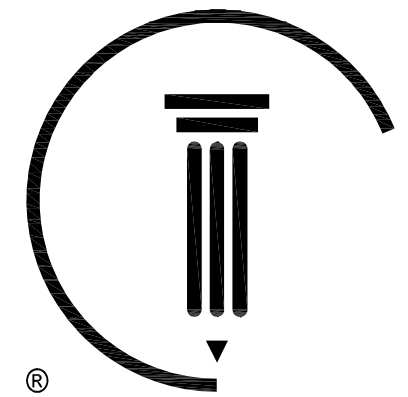
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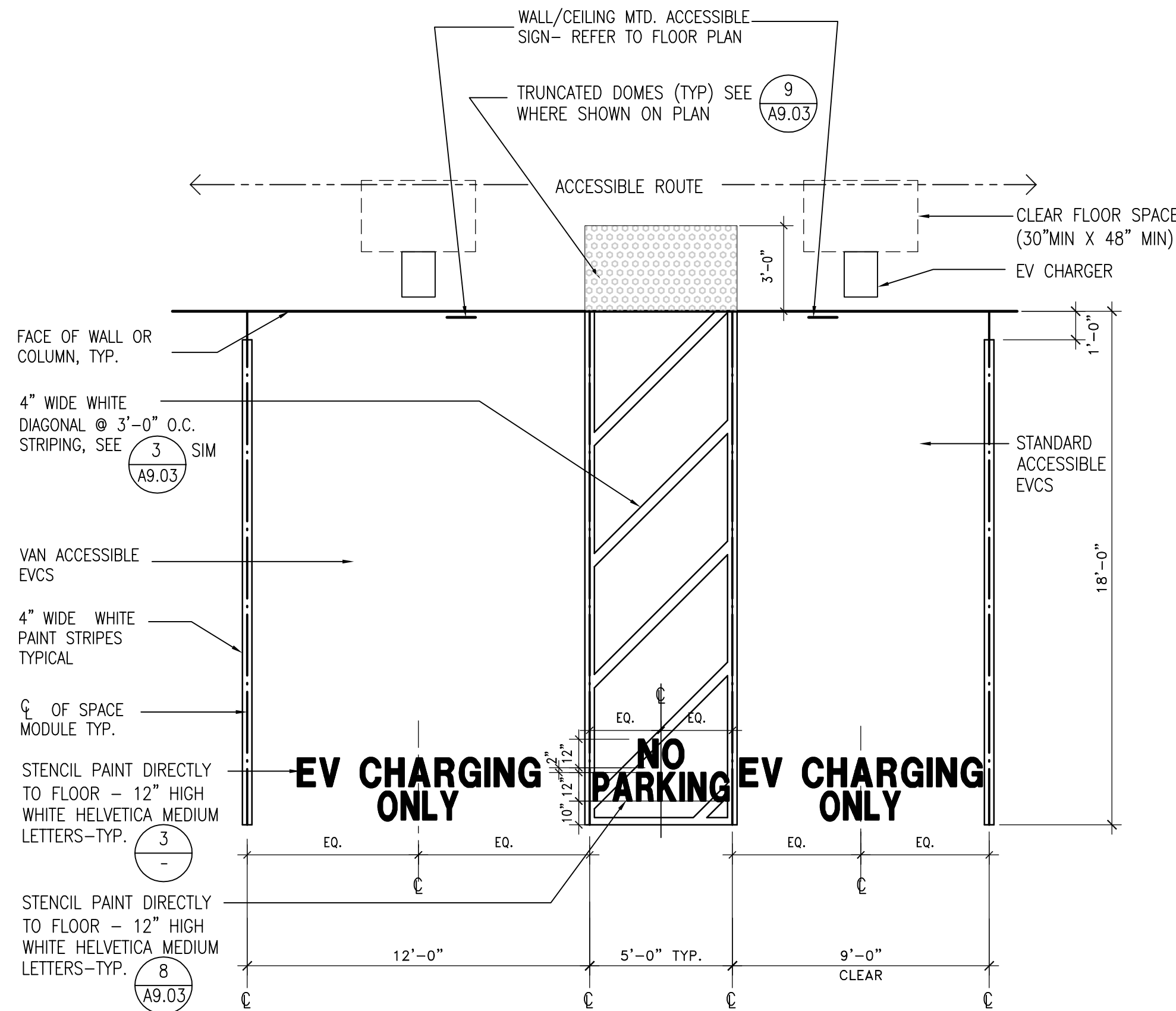
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STRUCTURE AND  
MAIN ENTRY

Sheet Title  
TYPICAL STRIPING  
DETAILS

Sheet Number

A9.04

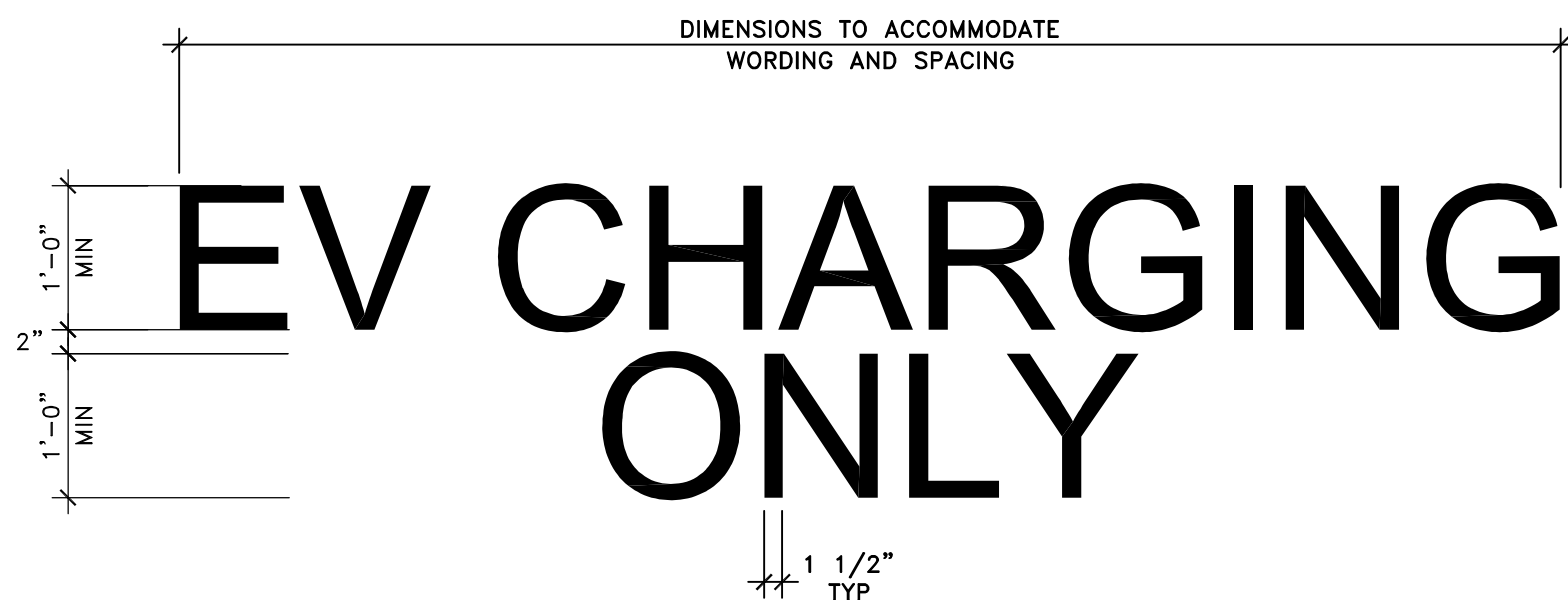
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### ACCESSIBLE EVCS SPACE STRIPING @ 90°

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

2

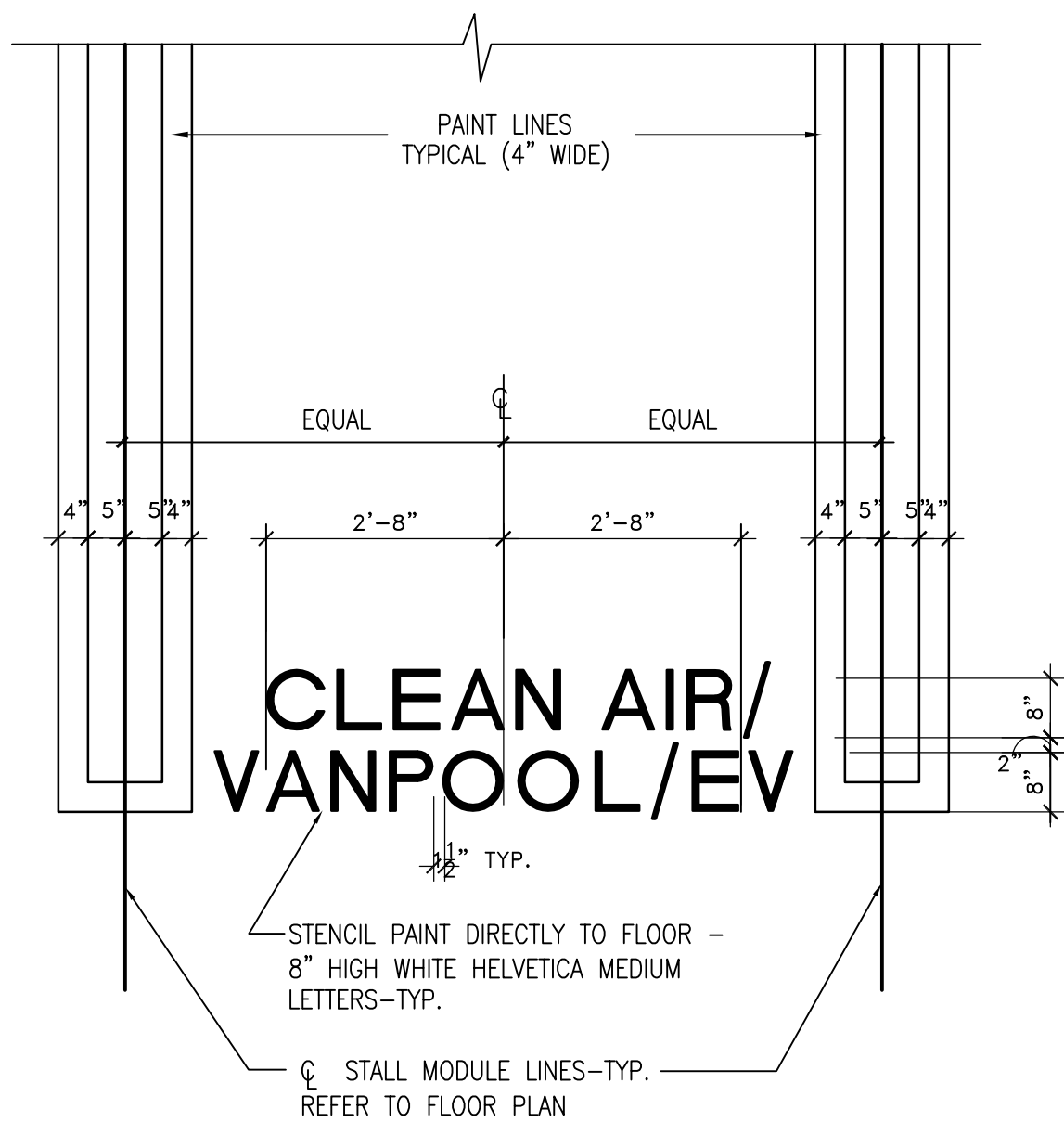


STENCIL PAINT MESSAGE DIRECTLY ON FLOOR SLAB  
WITH "TRAFFIC WHITE" REFLECTORIZED PAINT

### "EV CHARGING ONLY" LETTERING DETAIL

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

3



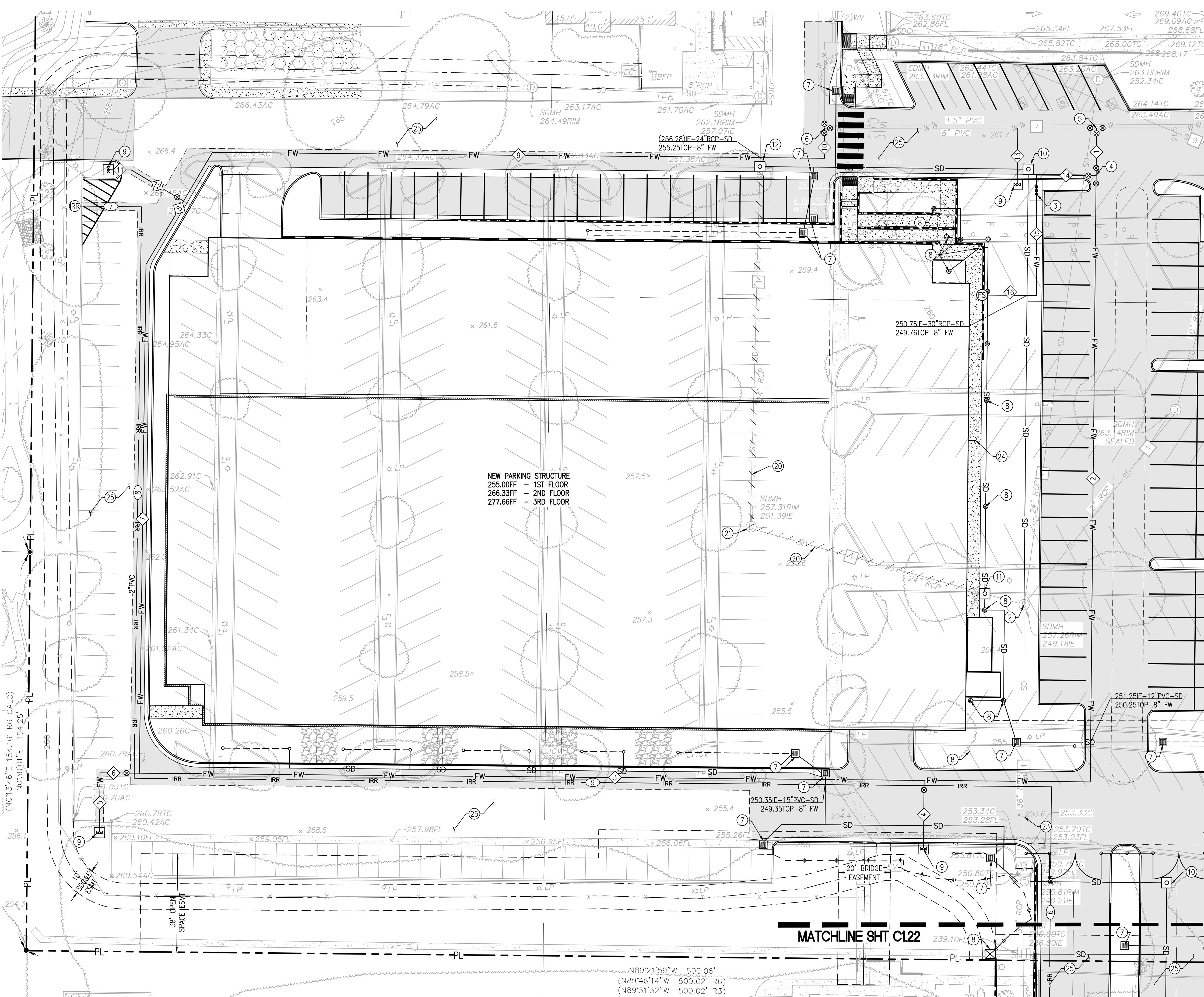
NOTE:  
1. PROVIDE THIS LETTERING AT REAR OF EACH  
CAV STALL TYPICAL. CENTER LETTERING.

### "CLEAN AIR/VANPOOL/EV" LETTERING DETAIL - "CAV"

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

1





WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS THE PROJECT SPECIFICATIONS, THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF OCEANSIDE.

CONSTRUCTION OF NEW WATER MAINS, FIRE HYDRANTS, BACKFLOW PREVENTER, FIRE DEPARTMENT CONNECTION, & FIRE SERVICES.

UTILITY NOTES:

1. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON OBSERVATION OF VISIBLE ABOVE GROUND STRUCTURES AND REVIEW OF RECORD DRAWINGS PROVIDED TO THE SURVEYOR. THE DEPICTED LOCATIONS, SIZES AND TYPES OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM THE RECORD DRAWINGS AND/OR ACTUAL AS-BUILT LOCATIONS. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES.
2. BWE MAKES NO CLAIM AS TO THE ACCURACY OF UNDERGROUND UTILITIES SHOWN HEREON. THE USER OF THIS DRAWING SHALL CONDUCT INDEPENDENT PHYSICAL INSPECTION OF EACH UNDERGROUND UTILITY PRIOR TO EXCAVATION OR CONSTRUCTION.
3. THE PROPOSED STORM DRAINS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. SEE SEPARATE GRADING PLAN FOR CONSTRUCTION OF STORM DRAINS.
4. FOR OVERALL SITE MAP INDICATING LOCATIONS OF EXISTING WATER SYSTEM CONNECTIONS TO PUBLIC MAINS SEE A/C1.22.

LEGEND

ITEM	STANDARD DRAWINGS
NEW FIRE HYDRANT	OSD M-13 & W-01
NEW TYPE A SDCO	PER GRADING PLAN
NEW 24"x24" CATCH BASIN	PER GRADING PLAN
NEW ATRIUM DRAIN	PER GRADING PLAN
NEW GATE VALVE	OSD W-23
NEW REDUCED PRESSURE DETECTOR CHECK ASSEMBLY	OSD W-29
NEW STORM DRAIN	PER GRADING PLAN
NEW FIRE SERVICE	PER GRADING PLAN
NEW DOMESTIC WATER LINE	
DEMO EX UTILITY LINE	

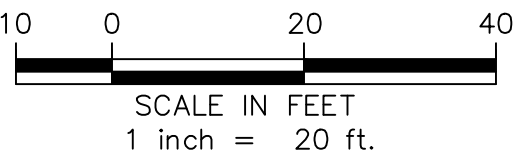
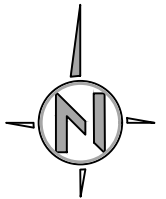
SYMBOL

UTILITY KEYNOTES

- (FS) FIRE SERVICE POINT OF CONNECTION AT 5' FROM FACE OF BUILDING. REFER TO PLUMBING AND FIRE PROTECTION DWGS FOR CONTINUATION INTO BUILDING.
- (IRR) CONNECT TO EXISTING STUBOUT FOR SURFACE LOT IRRIGATION SYSTEM PER IRRIGATION PLANS
- (2) CONNECT NEW 18" PVC SD TO EX MANHOLE PER GRADING PLAN
- (3) CONSTRUCT 6" REDUCED PRESSURE DETECTOR CHECK ASSEMBLY WITH FDC PER OSD W-29
- (4) CONNECT NEW 6" PVC FIRE SERVICE TO NEW 8" PVC WATER
- (5) CONNECT NEW 8" PVC WATER TO EX 8" PVC WATER WITH NEW TEE AND VALVES
- (6) CONNECT NEW 8" PVC WATER TO EX 8" PVC WATER WITH NEW TEE AND VALVES
- (7) CONSTRUCT 24"x24" CATCH BASIN PER GRADING PLAN
- (8) CONSTRUCT STORM DRAIN INLET PER GRADING PLANS
- (9) CONSTRUCT FIRE HYDRANT PER OSD M-13 & W-01
- (10) CONSTRUCT NEW TYPE A SD CLEANOUT PER GRADING PLAN
- (11) CONNECT TWO (2) 6" PVC SD TO EX 24" RCP SD W/NEW CLEANOUT PER GRADING PLAN
- (12) CONNECT NEW 24" PVC SD TO EX 24" RCP SD WITH NEW TYPE A CLEANOUT PER GRADING PLAN
- (20) REMOVE EX 24" CMP PER GRADING PLAN
- (21) REMOVE EX SD MANHOLE PER GRADING PLAN
- (23) PROTECT EXISTING STORM DRAIN
- (24) 1" FIRE WATER RISER DRAIN PIPE DISCHARGE LOCATION
- (25) PAINT ALL CURBS ALONG FIRE ACCESS ROADWAY RED WITH WHITE 3" LETTERING STATING "FIRE LANE - NO PARKING", 30" ON CENTER

FIRE WATER DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	SIZE/TYPE (CLASS)
1	N00°37'42"E	---	18.28'	8" PVC C-900
2	N00°37'42"E	---	234.61'	8" PVC C-900
3	N89°23'56"W	---	367.96'	8" PVC C-900
4	N00°36'04"E	---	26.50'	6" PVC C-900
5	N00°36'04"E	---	23.17'	6" PVC C-900
6	N89°23'56"W	---	15.23'	6" PVC C-900
7	N30°48'43"E	---	196.85'	8" PVC C-900
8	N30°45'29"E	---	50.48'	8" PVC C-900
9	N89°22'23"W	---	236.83'	8" PVC C-900
10	N00°00'00"E	---	11.57'	8" PVC C-900
11	N89°22'23"W	---	8.87'	6" PVC C-900
12	N59°14'31"W	---	23.54'	6" PVC C-900
13	N00°36'04"E	---	21.87'	6" PVC C-900
14	N89°22'18"W	---	23.11'	6" PVC C-900
15	N00°00'00"E	---	45.46'	6" PVC C-900
16	N89°24'16"W	---	20.25'	6" PVC C-900

IRRIGATION WATER DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
6	N00°37'42"E	---	337.15'	2" PVC
7	N89°11'17"W	---	23.74'	2" PVC
8	N00°48'43"E	---	221.13'	2" PVC
9	N89°23'56"W	---	354.96'	2" PVC



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TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY

Sheet Title

UTILITY PLAN

Sheet Number

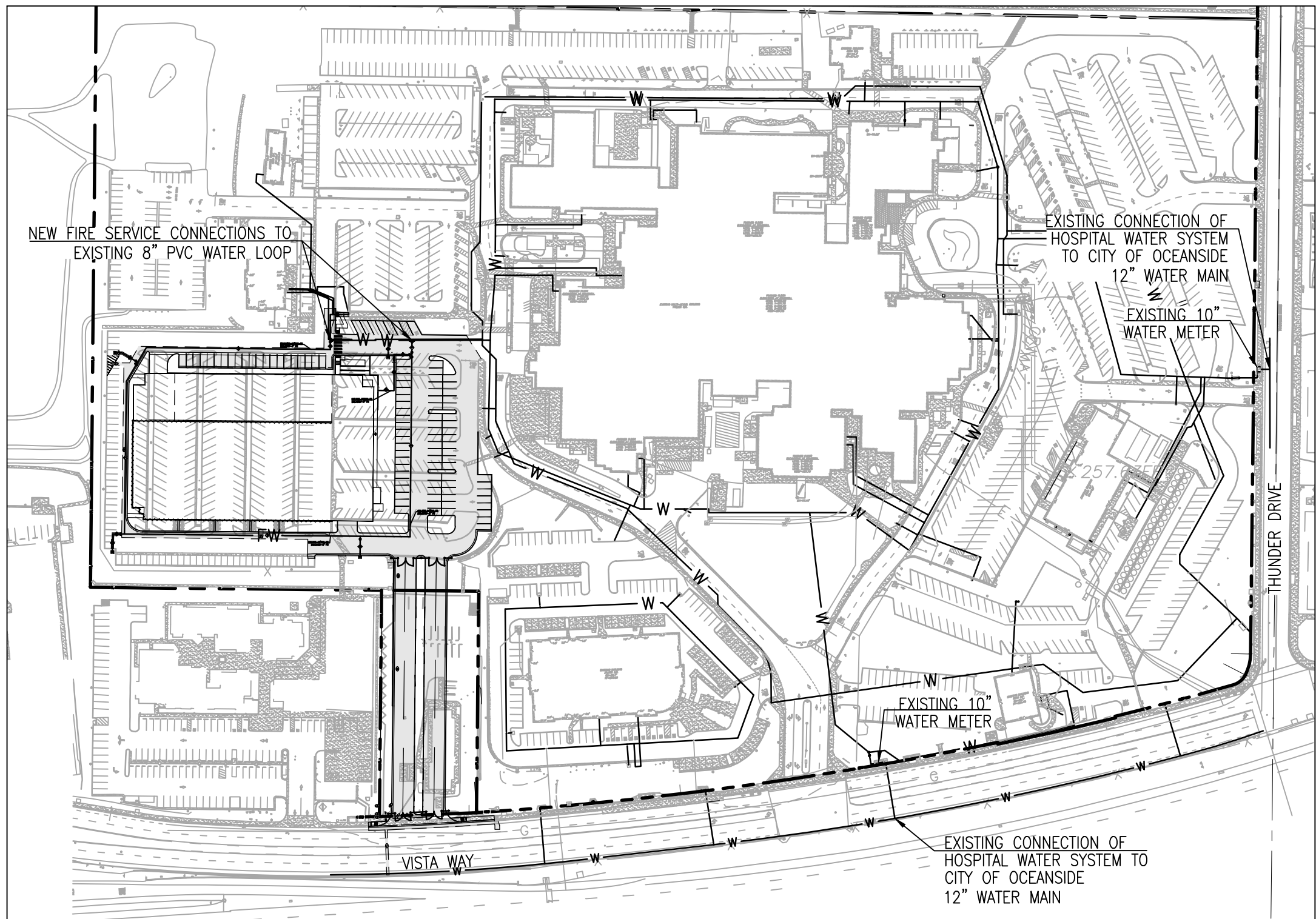
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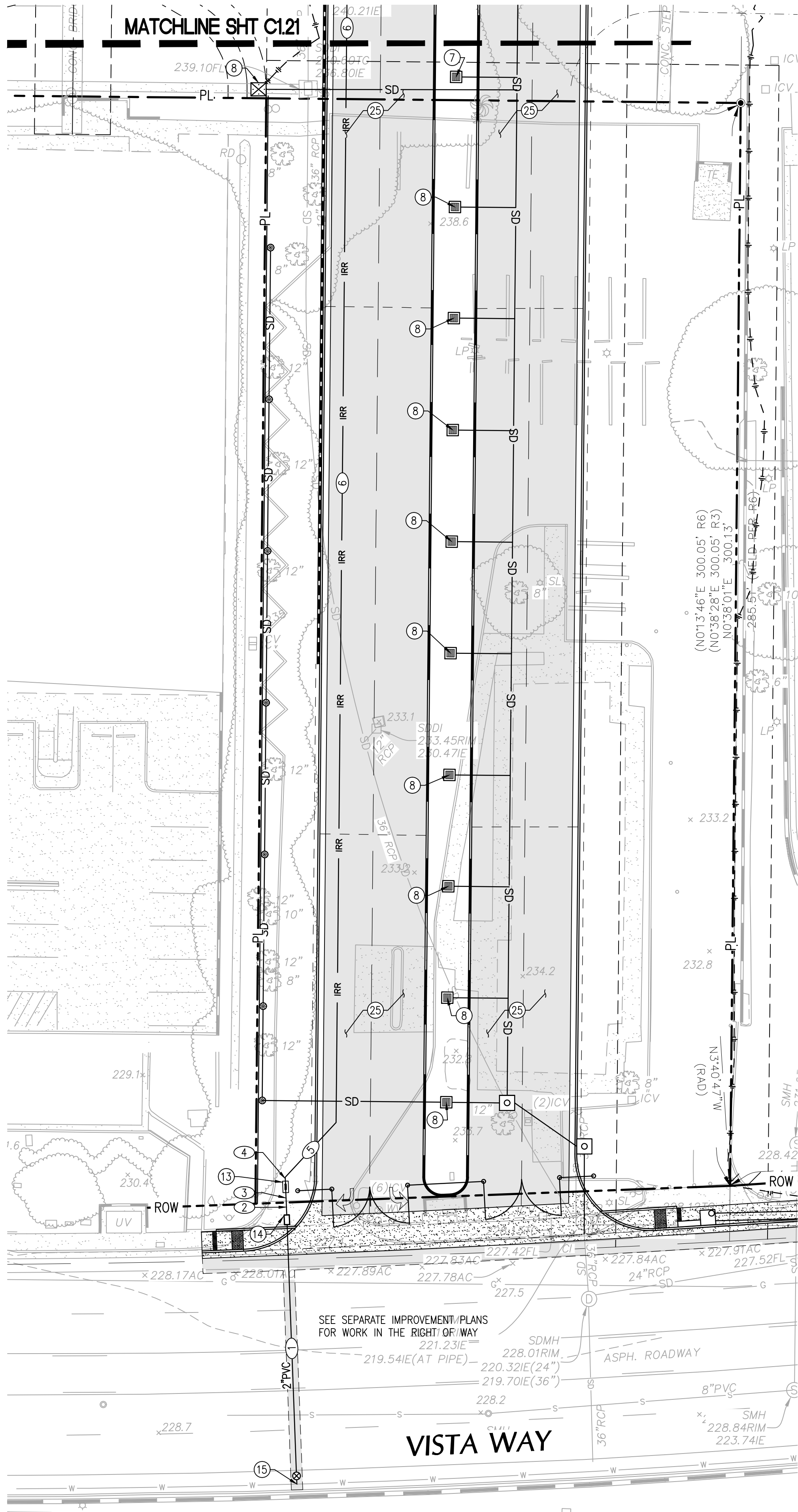
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A  
C1.22

EXISTING WATER LINE REFERENCE MAP  
SCALE: 1"=150'

NOTE:  
BOTH THE THUNDER DRIVE AND VISTA WAY 10"  
WATER METERS ARE MAINTAINED BY THE CITY OF  
OCEANSIDE WATER UTILITIES DEPARTMENT



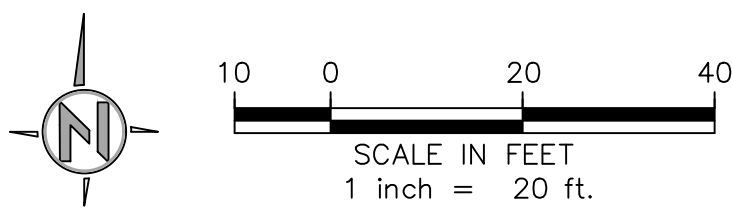
#### UTILITY NOTES:

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3. THE PROPOSED STORM DRAINS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY. SEE SEPARATE GRADING PLAN FOR CONSTRUCTION OF STORM DRAINS.

#### UTILITY KEYNOTES

- 7 CONSTRUCT 24"x24" CATCH BASIN PER GRADING PLAN
- 8 CONSTRUCT STORM DRAIN INLET PER GRADING PLANS
- 13 NEW 2" IRRIGATION TO EXISTING 12" ACP WATER MAIN PER CITY OF OCEANSIDE STANDARD DRAWING RW-5. SEE PUBLIC IMPROVEMENT PLAN SET
- 14 NEW 2" IRRIGATION METER PER CITY OF OCEANSIDE STANDARD DRAWING RW-5. SEE PUBLIC IMPROVEMENT PLAN SET
- 15 NEW 2" REDUCED PRESSURE PRINCIPLE ASSEMBLY PER CITY OF OCEANSIDE STANDARD DETAIL W-12
- 25 PAINT ALL CURBS ALONG FIRE ACCESS ROADWAY RED WITH WHITE 3" LETTERING STATING "FIRE LANE - NO PARKING", 30' ON CENTER

IRRIGATION WATER DATA				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
1	N02°05'26"W	--	65.25'	2" PVC
2	N02°05'26"W	--	3.23'	2" PVC
3	N02°22'17"W	--	3.12'	2" PVC
4	N02°05'26"W	--	1.50'	2" PVC
5	N42°54'34"E	--	19.71'	2" PVC
6	N00°37'42"E	--	337.15'	2" PVC



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**TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY**

Sheet Title

**UTILITY PLAN**

Sheet Number

**C1.22**

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GENERAL STRUCTURAL NOTES

SECTION 1: GENERAL

1-1 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO STARTING CONSTRUCTION AND THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES WITH ANY WORK SO INVOLVED.

1-2 ALL PHASES OF THE WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE 2016 CALIFORNIA BUILDING CODE.

1-3 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, AND SHORING OF RETAINING WALLS.

1-4 OPENINGS, POCKETS, ETC., SHALL NOT BE PLACED IN SLABS, BEAMS, COLUMNS, WALLS, ETC., UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

1-5 ALL ASTM SPECIFICATIONS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.

1-6 IN ACCORDANCE WITH CBC SECTION 1705, THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK:

- A. CONCRETE
- B. BOLTS INSTALLED IN CONCRETE
- C. POST-INSTALLED ANCHORS
- D. REINFORCING STEEL AND PRESTRESSING TENDONS
- E. STRUCTURAL WELDING
- F. HIGH STRENGTH BOLTING
- G. STRUCTURAL MASONRY
- H. SPECIAL GRADING, EXCAVATION AND FILLING

INSPECTIONS SHALL BE PROVIDED ON AN ONGOING FULL-TIME BASIS IN AN ORGANIZED AND SYSTEMATIC MANNER IN ORDER TO MINIMIZE POTENTIAL CONSTRUCTION DELAYS REQUIRED TO CORRECT ENCOUNTERED DEFICIENCIES. SEE SHEET S1.05 FOR INSPECTION PROGRAM.

1-7 WHERE REQUIRED BY THE BUILDING OFFICIAL OR OTHER PROVISIONS OF CBC SECTION 1704.6, THE OWNER SHALL EMPLOY AN ENGINEER ACCEPTABLE TO THE ENGINEER OF RECORD & BUILDING OFFICIAL TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN CBC SECTION 202 AND IN COMPLIANCE WITH CBC SECTION 1704.6.

CONSTRUCTION STAGES AND ELEMENTS TO BE OBSERVED:

A. IN-PLACE REINFORCING FOR THE FOLLOWING:

- FIRST FOOTINGS AND GRADE BEAMS SUPPORTING THE SEISMIC FORCE RESISTING MOMENT FRAME COLUMNS.
- FIRST LIFT OF SEISMIC FORCE RESISTING MOMENT FRAME COLUMNS.
- FIRST POUR OF ELEVATED SLAB AND SEISMIC FORCE RESISTING MOMENT FRAME BEAMS.
- COMPLETED STRUCTURE.

1-8 IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR AND SHALL BE REVIEWED BY THE ARCHITECT.

1-9 EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR AS THEY ARE UNCOVERED DURING CONSTRUCTION. IN THE EVENT EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IMMEDIATELY AND AWAIT FURTHER INSTRUCTION BEFORE PROCEEDING WITH CONSTRUCTION.

1-10 PRIOR TO ANY DRILLING, CORING, OR CUTTING OF CAST CONCRETE, THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER FOR REVIEW, THE PROPOSED SIZES AND LOCATIONS OF ALL HOLES. THE CONTRACTOR SHALL TAKE WHATEVER STEPS THAT ARE NECESSARY TO LOCATE AND AVOID ALL REINFORCEMENT.

1-11 FOR TYPICAL DETAILS SEE SHEET S1.02, S5.01, S5.02 & S5.03.

SECTION 2: FOUNDATION

2-1 FOUNDATION DESIGN BASED ON SOIL INVESTIGATION BY: CONSTRUCTION TESTING & ENGINEERING, INC.

CTE JOB NUMBER: 10-13000G DATED: 9/29/16

IN COMPLIANCE WITH THE ABOVE REFERENCED GEOTECHNICAL REPORT:

- MINIMUM FOOTING WIDTH SHALL BE 24" AND MINIMUM BOTTOM OF FOOTING EMBEDMENT BELOW LOWEST ADJACENT GRADE SHALL BE 24" AND THE CORRESPONDING ALLOWABLE SOIL BEARING PRESSURE IS 2500 psf.
- ALLOWABLE SOIL BEARING PRESSURE MAY BE INCREASED 500 psf FOR EACH ADDITIONAL FOOT OF WIDTH AND 500 psf FOR EACH ADDITIONAL FOOT OF EMBEDMENT, NOT TO EXCEED A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 4500 psf.

2-2 ALL SITE WORK AND GRADING SHALL BE DONE IN COMPLIANCE WITH THE SOIL INVESTIGATION REPORT.

2-3 THE SOILS ENGINEER SHALL REVIEW ALL SITE WORK AND FOOTING EXCAVATIONS BEFORE ANY CONCRETE IS CAST, AND SUBMIT A LETTER OF COMPLIANCE TO THE ARCHITECT.

2-4 THE SOILS ENGINEER SHALL REVIEW ALL BACKFILL MATERIALS PRIOR TO PLACEMENT AND OBSERVE BACKFILL OPERATIONS. A LETTER OF COMPLIANCE SHALL BE SUBMITTED TO THE ARCHITECT STATING THAT FILLS HAVE BEEN CONSTRUCTED PER THE RECOMMENDATIONS OF THE SOILS ENGINEER AND WILL PERFORM SATISFACTORILY.

SECTION 3: CONCRETE

3-1 CONCRETE MIXES TO BE DESIGNED BY A RECOGNIZED TESTING LABORATORY AND COPIES OF DESIGN SENT TO THE ARCHITECT. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND ARCHITECT. ALL CONCRETE SHALL USE A POLYMER BASED WATER REDUCING ADMIXTURE. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.

3-2 PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II OR I-LOW ALKALI. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C33, AND AGGREGATE FOR LIGHT-WEIGHT CONCRETE SHALL CONFORM TO ASTM C330. AGGREGATE SIZE FOR ALL CONCRETE SHALL CONFORM TO ASTM C33 SIZE NUMBER 57 (1" MAXIMUM SIZE). AGGREGATE SIZE FOR FOOTINGS AND SLABS-ON-GRADE MAY CONFORM TO ASTM C33 SIZE NUMBER 467 (1 1/2" MAXIMUM SIZE) AT CONTRACTOR'S OPTION. WHERE CONCRETE IS TO BE IN DIRECT CONTACT WITH THE SOIL OR IRRIGATION WATER, CEMENT SHALL BE TYPE V OR EQUIVALENT, WATER TO CEMENT RATIO SHALL BE .50 MAXIMUM AND 28-DAY COMPRESSIVE STRENGTH SHALL BE 4000 psi MINIMUM.

3-3 WATER ADDITIONS AFTER LEAVING THE BATCH PLANT SHALL NOT BE MADE EXCEPT AS ALLOWED BY ASTM C94/94M. WATER ADDITIONS DURING TRANSIT SHALL BE PERMITTED ONLY FOR REDI-MIX TRUCKS EQUIPPED WITH AN ONBOARD AUTOMATED SLUMP AND WATER MONITORING SYSTEM IN COMPLIANCE WITH ASTM C94/94M.

3-4 FOR WALLS, SLABS ON GRADE, AND ELEVATED SLABS AND BEAMS, DRY CURING SHRINKAGE AT 28 DAYS SHALL NOT EXCEED 0.045%. SHRINKAGE TESTS SHALL COMPLY WITH ASTM C157, AS MODIFIED BY S102, AND SHALL BE PERFORMED BY AN INDEPENDENT LABORATORY. SPECIFIED SHRINKAGE LIMITS ARE FOR LABORATORY PREPARED AND CURED SPECIMENS. FOR CONCRETE TO BE PLACED IN SLABS ON GRADE AND ELEVATED SLABS AND BEAMS, PROVIDE SHRINKAGE TEST RESULTS 2 WEEKS MINIMUM, PRIOR TO PLACING CONCRETE.

3-5 ALL REINFORCING BARS, ANCHOR BOLTS, PRESTRESSING TENDONS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

3-6 THE MAXIMUM SLUMP SHALL NOT EXCEED THE FOLLOWING:

- A. PRIOR TO THE ADDITION OF A HIGH RANGE WATER REDUCING AGENT: 4" ± 1"
- B. AFTER ADDITION OF A HIGH RANGE REDUCING AGENT: 8" ± 1"

3-7 MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS (UNO) SHALL BE AS FOLLOWS: (MINIMUM 470 POUNDS OF CEMENTITIOUS MATERIALS PER CUBIC YARD)

- A. FOOTINGS & SOG: 4000 psi
- B. UPTURNED BEAMS INCLUDING @ GRADE LEVEL: 4000 psi TYPICAL EXCEPT 5000 psi WHERE SHOWN ON FRAME ELEVATIONS
- C. COLUMNS: 4000 psi TYPICAL EXCEPT 5000 psi WHERE NOTED ON COLUMN SCHEDULE
- D. ELEVATED SLABS & DOWNTURNED BEAMS: 3000 psi @ 3 DAYS & 4500 psi @ 28 DAYS
- E. ELEVATOR DOOR FRAME: 3000 psi LIGHTWEIGHT CONCRETE
- F. ALL OTHER CONCRETE: 4000 psi UNO ON PLANS

3-8 ALL CONCRETE FOR ROOF DECKS (ALL DECKS EXPOSED TO WEATHER) SHALL CONTAIN 1.5 POUNDS PER CUBIC YARD OF FIBERMESH 300 SYNTHETIC FIBERS.

3-9 SAMPLES FOR TESTING SHALL BE REQUIRED AS OUTLINED BY ACI 318-14 SECTION 26.12 CONCRETE EVALUATION AND ACCEPTANCE. A SAMPLE SHALL CONSIST OF A MINIMUM OF FOUR 6" x 12" OR FIVE 4" x 8" CYLINDERS, ONE TO BE TESTED AT 7 DAYS, TWO 6" x 12" OR THREE 4" x 8" CYLINDERS TO BE TESTED AT 28 DAYS AND ONE TO BE TESTED AT 56 DAYS IF AVERAGE REQUIRED STRENGTH AT 28 DAYS IS NOT MORE THAN 10% ABOVE ACCEPTABLE LIMITS. FOR POST-TENSIONED MEMBERS, A 3-DAY TEST MAY BE USED IN LIEU OF THE 7-DAY TEST TO FACILITATE STRESSING OPERATIONS. ALL TEST CYLINDERS SHALL BE NUMBERED SEQUENTIALLY AS THEY PERTAIN TO THIS PROJECT. TEST REPORTS SHALL ALSO INCLUDE THE TEST RESULTS FOR SLUMP AND IF APPLICABLE, PERCENTAGE OF AIR.

3-10 PROJECTING CORNERS OF BEAMS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER UNLESS DETAILED OTHERWISE.

3-11 CONDUIT OR PIPE SIZE (OD) SHALL NOT EXCEED 30% OF SLAB THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE AND SHALL BE LOCATED IN MIDDLE 1/3 OF SLAB. CLEAR SPACING BETWEEN ADJACENT CONDUITS OR PIPES SHALL BE THREE TIMES THE LARGER O.D. MINIMUM, UNLESS NOTED OTHERWISE ON PLANS. FOR CONDUITS OR PIPES IN COLUMNS SEE J/S3.10.

3-12 ALL CONCRETE CONSTRUCTION JOINTS SHALL HAVE 1/4" ± AMPLITUDE ROUGHNESS OR KEYED JOINTS, UNLESS NOTED OTHERWISE.

3-13 LIGHTWEIGHT CONCRETE SHALL HAVE A MAXIMUM DENSITY OF 115 pcf.

3-14 FLY ASH SHALL CONFORM TO ASTM C618 CLASS F, EXCEPT AS NOTED. FLY ASH SHALL NOT EXCEED 25% OF CEMENTITIOUS MATERIAL BY WEIGHT. FLY ASH USED SHALL NOT EXPERIENCE A LOSS ON IGNITION OF GREATER THAN 2%.

3-15 IF CONCRETE IS PUMPED, PROVIDE HORSES OR OTHER SUITABLE MEANS TO SUPPORT THE HOSE SO THAT IT DOES NOT RIDE ON THE TENDONS OR ON THE MILD REINFORCING STEEL.

SECTION 5: MASONRY

5-1 BLOCK MASONRY UNITS SHALL BE SINGLE OR DOUBLE OPEN END BOND BEAM UNITS CONFORMING TO ASTM C90, LATEST REVISION. THE FIRST COURSE OF BLOCK FOR BLOCK LIFTS EXCEEDING 5'-0" SHALL HAVE CLEANOUTS CONSISTING OF DOUBLE OPEN END BOND BEAM BLOCK. SEE DETAIL A/S5.03.

5-2 MINIMUM f'm = 1500 psi UNO. MINIMUM f'm = 2000 psi @ ELEVATOR HOISTWAY WALLS.

5-3 f'm SHALL BE DETERMINED PER THE ACI 530.1-13 SECTION 1.4. PROVIDE SUBMITTALS, TESTING AND INSPECTIONS AS REQUIRED BY ACI 530-13 TABLE 3.1.2.

5-4 IN NO CASE SHALL COMPRESSIVE STRENGTH OF BLOCK UNITS BE LESS THAN 125% OF SPECIFIED f'm. IN NO CASE SHALL GROUT FOR THE BLOCK UNITS HAVE A COMPRESSIVE STRENGTH LESS THAN 2000 psi AND 125% OF SPECIFIED f'm AT 28 DAYS. MORTAR SHALL BE TYPE 'S' OR 'M'.

5-5 MINIMUM LAP OF REINFORCING STEEL SHALL BE PER C/S5.03.

5-6 GROUT POURS SHALL BE TO THE FULL HEIGHT OF THE BLOCK LIFT. MAXIMUM GROUT POUR HEIGHT SHALL COMPLY WITH ACI 530-13 SECTION 3.2. GROUT POURS EXCEEDING 5'-0" IN HEIGHT SHALL CONSIST OF MULTIPLE GROUT LIFTS OF 5'-0" OR LESS IN HEIGHT. CONSOLIDATE AND RECONSOLIDATE EACH GROUT LIFT BY MEANS OF MECHANICAL VIBRATION IN COMPLIANCE WITH ACI 530.1 SECTION 3.5.E. A GROUT LIFT SHALL NOT BE PERMITTED TO SET PRIOR TO PLACEMENT AND CONSOLIDATION OF SUBSEQUENT GROUT LIFT.

5-7 HORIZONTAL CONSTRUCTION JOINTS BETWEEN GROUT POURS SHALL BE LOCATED 1" ± 1/2" BELOW A MORTAR JOINT.

5-8 MINIMUM GROUTING: FILL ALL CELLS.

5-9 ALL BOLTS IN MASONRY SHALL BE CENTERED IN CELLS ± 2 INCHES.

SECTION 6: REINFORCING STEEL

6-1 LONGITUDINAL REINFORCING STEEL IN ALL CONCRETE COLUMNS AND BEAMS SHALL BE ASTM A706, GRADE 60.

6-2 ALL OTHER REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 OR ASTM A706, GRADE 60, UNO.

6-3 REINFORCING STEEL THAT IS TO BE WELDED SHALL BE ASTM A706, GRADE 60. REBAR WELDED TO REBAR SHALL BE WELDED USING E80XX LOW-HYDROGEN ELECTRODES.

6-4 CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS UNO:

A. CAST-IN-PLACE CONCRETE (NONPRESTRESSED):

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER:
  - #6 THROUGH #18 BARS: 2"
  - #5 BAR, W31 OR D31 WIRE, AND SMALLER: 1 1/2"
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS:
  - #14 AND #18 BARS: 1 1/2"
  - #11 BAR AND SMALLER: 3/4"BEAMS, COLUMNS:
  - PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1 1/2"

B. CAST-IN-PLACE CONCRETE (PRESTRESSED) - PRESTRESSED AND NON-PRESTRESSED REINFORCEMENT, DUCTS, AND END FITTINGS:

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER: WALL PANELS, SLABS, JOISTS: 1" OTHER MEMBERS: 1 1/2"
- CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: 3/4" BEAMS, COLUMNS:
  - PRIMARY REINFORCEMENT: 1 1/2"
  - TIES, STIRRUPS, SPIRALS: 1 1/2"

6-5 SMOOTH WIRE MESH SHALL CONFORM TO ASTM A1064, AND SHALL BE LAPPED SUCH THAT THE DISTANCE BETWEEN OUTER MOST CROSS WIRES IS NOT LESS THAN 1 1/2 SPACES (9" MIN). DEFORMED WELDED WIRE REINFORCEMENT IN SLABS ON GRADE AND FOR STIRRUPS IN BEAMS AND GIRDERS SHALL CONFORM TO ASTM A1064 AND MINIMUM YIELD STRESS fy = 80 ksi. WELDED WIRE IN ELEVATED SLABS SHALL CONFORM TO ASTM A1064 AND MINIMUM YIELD STRESS fy = 60 ksi.

6-6 ALL FIELD BENDING OR STRAIGHTENING OF REINFORCING BARS SHALL BE MADE PER ACI 301 SECTION 3.3.2.8.

6-7 REINFORCING BARS SHALL BE SPLICED AS SHOWN ON DRAWINGS. ANY ADDITIONAL SPLICING SHALL REQUIRE REVIEW FROM THE ENGINEER.

6-8 MECHANICAL COUPLERS SHALL HAVE AN EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH THE REQUIREMENTS OF A TYPE 2 CONNECTOR PER THE LATEST EDITION OF ACI 318.

6-9 CONTRACTOR SHALL NOT PLACE ANY REINFORCING UNTIL SHOP DRAWINGS REVIEWED BY THE ENGINEER ARE RECEIVED ON THE JOB. SHOP DRAWINGS SHALL CONSIST OF BOTH 'CUT' AND PLACING SHEETS. PLACING SHEETS SHALL CONTAIN ALL INFORMATION NECESSARY TO POSITION ALL REINFORCING STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTION OF THE

ABBREVIATIONS

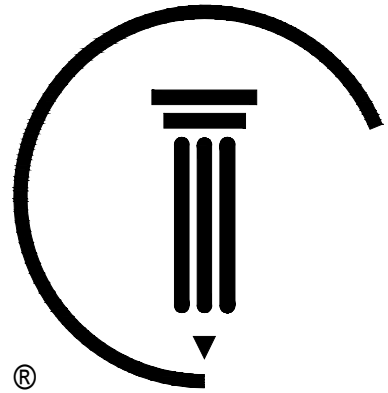
THIS LIST IS FOR INFORMATION ONLY - OTHER ABBREVIATIONS MAY BE USED. ABBREVIATIONS THAT ARE UNCLEAR SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR CLARIFICATION.

AB	ANCHOR BOLT	EF	EACH FACE	k	KIPS	RM	ROOM
ADDL	ADDITIONAL	EJ	EXPANSION JOINT	k/f	KIPS PER FOOT	RO	ROUGH OPENING
ADJ	ADJACENT	EL	ELEVATION	ksf	KIPS PER SQUARE FOOT	S	STEP or WELD SIZE or SOUTH
AFF	ABOVE FINISH FLOOR	ELEV	ELEVATOR	ksi	KIPS PER SQUARE INCH	SC	SLIP CRITICAL CONNECTION
ALT	ALTERNATE	ENGR	ENGINEER	L	ANGLE or ANGLE IRON	SCHED	SCHEDULE
ANC	ANCHOR	EOR	ENGINEER OF RECORD	LB	POUND	SCW	SLIP CRITICAL CONN w/WELD
ARCH	ARCHITECT	EOS	EDGE OF SLAB	LL	LIVE LOAD	SE	STRUCTURAL ENGINEER
ASSY	ASSEMBLY	EQ	EQUAL	LLBB	LONG LEGS BACK TO BACK	SECT	SECTION
B	BOTTOM	EQUIP	EQUIPMENT	LLV	LONG LEG VERTICAL	SHT	SHEET
BC	BARRIER CABLE	EQUIV	EQUIVALENT	LONG	LONGITUDINAL	SIM	SIMILAR
BFF	BELOW FINISH FLOOR	ES	EACH SIDE	LP	LIGHT POLE	SJ	SCORED JOINT
BLDG	BUILDING	EW	EACH WAY	LSL	LONG-SLOTTED HOLE	SLBB	SHORT LEGS BACK TO BACK
BLKG	BLOCKING	EXP	EXPANSION	LT	LIGHT	SLTD	SLOTTED
BM	BEAM	EXT	EXTERIOR	LW	LONG WAY	SLV	SHORT LEG VERTICAL
BMD	BOTTOM OF METAL DECK	(F)	FUTURE CONDITION	LWC	LIGHT-WEIGHT CONCRETE	SMRF	SPECIAL MOMENT RESISTING
BOF	BOTTOM OF FOOTING	f'c	MIN ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE	MACH	MACHINE	FRAME	FRAME
BOT	BOTTOM	MATL	MATERIAL	MAX	MAXIMUM	SOG	SLAB ON GRADE
BP	BUTTON PUNCH	f'm	MIN ULTIMATE COMPRESSIVE STRENGTH OF MASONRY	MB	MACHINE BOLT	SP	STD PIPE or SPACES, SPACING
BRG	BEARING	FD	FLOOR DRAIN	MECH	MECHANICAL	SPEC	SPECIFICATION
BSMT	BASEMENT	FDN	FOUNDATION	MFR	MANUFACTURER	SQ	SQUARE
BTWN	BETWEEN	FDS	FULL DEPTH STIFFENER	MIN	MINIMUM	SSL	SHORT-SLOTTED HOLE
C	CHANNEL or CAMBER	FF	FINISH FLOOR or FAR FACE	MISC	MISCELLANEOUS	STAG	STAGGER
CA	COLUMN ABOVE	FG	FINISH GRADE	MTL	METAL	STD	STANDARD
CB	COLUMN BELOW	FIN	FINISH	N	NORTH	STHG	SHEATHING
CFM	COLD FORMED METAL	FLR	FLOOR	NA	NOT APPLICABLE	STIF	STIFFENER
CGS	CENTER OF GRAVITY OF SECTION	FOC	FACE OF CONCRETE	NIC	NOT IN CONTRACT	STL	STEEL
CIP	CAST-IN-PLACE CONCRETE	FOM	FACE OF MASONRY	NOI	NOMINAL	STRUCT	STRUCTURAL
CJ	CONSTRUCTION JOINT	FOS	FACE OF STUD	NOM	NOMINAL	SW	SHORT WAY
CJP	COMPLETE JOINT PENETRATION	FRMG	FRAMING	NS	NEAR SIDE	SYM	SYMMETRICAL
CL	CENTERLINE	FS	FAR SIDE	NTS	NOT TO SCALE	T	TOP or TREAD
CLR	CLEAR	FT	FOOT or FEET	oc	ON CENTER	T&B	TOP AND BOTTOM
CMU	CONCRETE MASONRY UNIT	FTG	FOOTING	OD	OUTSIDE DIAMETER	T&S	TEMPERATURE AND SHRINKAGE
COL	COLUMN	FTT	FINGER TIGHTEN NUT & STAKE THREADS	OH	OPPOSITE HAND	THD	THREAD or THREADED
CONC	CONCRETE	FTS	FINGER TIGHTEN NUT & STAKE THREADS	OPNG	OPENING	THK	THICK or THICKNESS
COND	CONDITION	FTTW	FINGER TIGHTEN NUT & TACK WELD	OPP	OPPOSITE	TN	TOE NAIL
CONN	CONNECTION	G	GROUND LEVEL	ORIG	ORIGINAL	TOC	TOP OF CONCRETE
CONST	CONSTRUCTION	GA	GAGE or GAUGE	OSF	OUTSIDE FACE	TOF	TOP OF FOOTING
CONT	CONTINUOUS	GALV	GALVANIZED	OVS	OVERSIZE ROUND HOLE	TOS	TOP OF STEEL (NOT DECK)
CONTR	CONTRACTOR	GR	GRADE	OWG	OPEN WEB GIRDER	TOW	TOP OF WALL
COORD	COORDINATION, -ATE	HA	HANGER ABOVE	OWJ	OPEN WEB JOIST	TRANS	TRANSVERSE
CR	CHORD REINF	HB	HANGER BELOW	PC	PRECAST CONCRETE	TS	THREADED STUD ANCHOR
d	DEEP	HCA	HEADED CONCRETE ANCHOR	pdf	POUNDS PER CUBIC FOOT	TYP	TYPICAL
db	REINFORCING BAR DIAMETER	HDR	HEADER	PDF	POWER-DRIVEN FASTENER	UNIF	UNIFORM
DBL	DOUBLE	HGR	HANGER	PEN	PENETRATION	UNO	UNLESS NOTED OTHERWISE
DBO	DESIGN BY OTHERS	HORIZ	HORIZONTAL	PERP	PERPENDICULAR	VERT	VERTICAL
DIA	DIAMETER	HS	HORIZONTAL SLOT	PL	PLATE or PROPERTY LINE	VF	VERIFY IN FIELD
DIA	DIAGONAL	HSS	HIGH-STRENGTH BOLT	PLC	PLACES	VS	VERTICAL SLOT
DIM	DIMENSION	HT	HOLLOW STRUCTURAL SECTION	plf	POUNDS PER LINEAR FOOT	VSC	VERTICAL SLIDE CLIP
DK	DECK	ID	INSIDE DIAMETER	psf	POUNDS PER SQUARE FOOT	W	WIDE FLANGE or WEST
DNL	DEAD LOAD	IN	INCH	psi	POUNDS PER SQUARE INCH	w/c	WATER-CEMENT RATIO
DTL	DETAIL	INT	INTERIOR	PT	POST-TENSION, -ED, -ING or POST-TENSION TENDONS	w/o	WITHOUT
DTS	DIAGONAL TENSION STRAP	INFO	INFORMATION	QTY	QUANTITY	WDO	WINDOW
DWG	DRAWING	ISF	INSIDE FACE	R	ROOF, RISER or RADIUS	WP	WORK POINT or WATERPROOF
E	EAST	J	JOIST	RD	ROOF DRAIN	WWF	WELDED WIRE FABRIC
(E)	EXISTING CONDITION	JH	JOIST HANGER	REF	REFER, or REFERENCE	XP	EXTRA STRONG PIPE
EA	EACH	JO	JOIST	REINF	REINFORCED	XXP	DBL EXTRA STRONG PIPE
EB	EXPANSION BOLT	JOH	JOIST HANGER	REQD	REQUIRED	>	GREATER THAN
EE	EACH END	JOH	JOIST HANGER	REV	REVISED, or REVISION	<	LESS THAN
						Δ	HEADED STUD QUANTITY
						Δ	TENDON ELONGATION

SHEET INDEX

PROGRESS DESIGN DEVELOPMENT	DESIGN DEVELOPMENT	50% CD	PLAN CHECK SUBMITTAL	BACK CHECK #1	
•	•	•	•	•	\$1.00
•	•	•	•	•	\$1.01
•	•	•	•	•	\$1.02
•	•	•	•	•	\$1.05
•	•	•	•	•	\$2.01
•	•	•	•	•	\$2.02
•	•	•	•	•	\$2.03
•	•	•	•	•	\$2.10
•	•	•	•	•	\$3.10
•	•	•	•	•	\$3.11
•	•	•	•	•	\$3.15
•	•	•	•	•	\$3.40
•	•	•	•	•	\$3.41
•	•	•	•	•	\$3.50
•	•	•	•	•	\$3.60
•	•	•	•	•	\$3.85
•	•	•	•	•	\$3.90
•	•	•	•	•	\$3.91
•	•	•	•	•	\$3.92
•	•	•	•	•	\$3.93
•	•	•	•	•	\$4.01
•	•	•	•	•	\$4.03
•	•	•	•	•	\$5.01
•	•	•	•	•	\$5.02
•	•	•	•	•	\$5.03
•	•	•	•	•	\$5.04
•	•	•	•	•	\$5.10

- STRUCTURAL COVER SHEET
- STRUCTURAL COVER SHEET CONTINUED
- POST TENSIONING NOTES & DETAILS
- SPECIAL INSPECTION NOTES
- GROUND LEVEL FOUNDATION PLAN
- SECOND LEVEL FRAMING PLAN
- THIRD (ROOF) LEVEL FRAMING PLAN
- PARTIAL PLANS
- COLUMN SCHEDULE & DETAILS
- COLUMN DETAILS
- FRAME COLUMN SCHEDULE & DETAILS
- FRAME ELEVATIONS
- FRAME ELEVATIONS
- GIRDER ELEVATIONS & DETAILS
- BEAM ELEVATIONS
- BEAM DETAILS
- SLAB SECTIONS
- SLAB SECTIONS
- SLAB SECTIONS
- SLAB SECTIONS
- ELEVATOR TOWER WALL ELEVATIONS & DETAILS
- ELEVATOR TOWER WALL DETAILS
- ELEVATOR TOWER WALL DETAILS
- CONCRETE DETAILS
- CONCRETE DETAILS
- CONCRETE DETAILS
- CONCRETE DETAILS
- CONCRETE DETAILS



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STRUCTURAL DRAWINGS.

SECTION 7: STRUCTURAL STEEL

7-1 STRUCTURAL STEEL WIDE FLANGE SECTIONS SHALL CONFORM TO ASTM A572 GRADE 50 OR ASTM A992, UNLESS NOTED OTHERWISE. ALL OTHER STEEL SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMENDED TO DATE.

7-2 PIPE SHALL CONFORM TO ASTM A53, GRADE B.

7-3 HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM 500, GRADE B.

7-4 ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325 UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE ON DRAWINGS. MACHINE BOLTS SHALL CONFORM TO ASTM A307.

7-5 INSTALLATION AND INSPECTION OF HIGH STRENGTH BOLTS SHALL CONFORM TO THE REQUIREMENTS OF THE FOURTEENTH EDITION AISC SPECIFICATIONS. HOLES FOR HIGH STRENGTH BOLTS SHALL BE BOLT DIAMETER + 1/16", UNO.

7-6 SLIP CRITICAL (SC) TYPE BOLTS SHALL BE INSTALLED AT ALL MOMENT CONNECTIONS AND WHERE NOTED ON PLANS AND DETAILS. SLIP CRITICAL BOLTS SHALL BE INSTALLED PER THE AISC SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS. CONTACT FACES OF STEEL AT CONNECTIONS SHALL NOT BE PAINTED WHERE BOLTS ARE SPECIFIED AS "SC" TYPE.

7-7 BEARING (N) TYPE CONNECTIONS SHALL BE USED AT ALL SIMPLE SHEAR CONNECTIONS, UNLESS NOTED OTHERWISE.

7-8 THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP AND ERECTION DRAWINGS OF ALL STEEL FOR ENGINEER REVIEW BEFORE FABRICATION. ALL STEEL FABRICATION TO BE DONE IN A SHOP ACCEPTABLE TO THE BUILDING DEPARTMENT. CONTRACTOR SHALL NOT ERECT ANY STRUCTURAL STEEL UNTIL THE SHOP DRAWINGS REVIEWED BY THE ENGINEER ARE RECEIVED AT THE JOB SITE. SHOP AND ERECTION DRAWINGS SHALL CONTAIN ALL INFORMATION NECESSARY TO ERECT ALL STRUCTURAL STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTIONS OF THE STRUCTURAL DRAWINGS.

7-9 ALL WELDING SHALL BE DONE BY EXPERIENCED WELDERS USING AN ELECTRIC ARC WELDING PROCESS. WELDERS SHALL ALSO MEET THE QUALIFICATION REQUIREMENTS OF AWS D1.1 FOR THE TYPES AND POSITIONING OF WELDS TO BE PERFORMED. FILLER WELD METAL SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 ksi, UNO. FILLER WELD METAL FOR METAL DECKING SHALL HAVE A MINIMUM TENSILE STRENGTH OF 60 ksi, ALL COMPLETE PENETRATION GROOVE WELD METAL SHALL HAVE A MINIMUM CVN TOUGHNESS OF 20 ft-lbs at 40° F. OPEN WEB JOISTS SHALL BE WELDED PER THE STEEL JOIST INSTITUTE SPECIFICATIONS. ALL WELDING SHALL CONFORM TO AISC AND AWS STANDARDS.

7-10 EXCEPT WHERE ENCASED IN CONCRETE, MASONRY OR SPRAYED-ON FIREPROOFING, ALL STEEL IN UNCONDITIONED SPACES SHALL BE HOT-DIPPED GALVANIZED UNLESS NOTED OTHERWISE ON THE DRAWINGS. WELDS OF GALVANIZED STEEL SHALL BE GALVANIZED OR PAINTED WITH A ZINC BASED PAINT TO PROTECT AGAINST CORROSION.

7-11 STRUCTURAL STEEL FRAMING MEMBERS SHALL BE SUPPORTED DURING FIELD WELDING. EXCEPT WELDING OF METAL DECK, STEEL STUDS, ETC. SUPPORTS SHALL REMAIN IN PLACE UNTIL STEEL TEMPERATURE HAS RETURNED TO AIR TEMPERATURE.

7-12 OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED, STEEL MEMBERS SHALL BE SHORED WHEN PERMISSIBLE HOLES ARE CUT WITH A TORCH AFTER STEEL IS ERECTED. THE SHORES SHALL REMAIN IN PLACE UNTIL STEEL TEMPERATURE HAS RETURNED TO AIR TEMPERATURE.

7-13 STIFFENERS SHALL HAVE THE SAME WIDTH AS THE FLANGES OF THE STEEL MEMBERS UNLESS DETAILED OTHERWISE. BEARING STIFFENERS SHALL HAVE CLOSE BEARING AGAINST FLANGES.

7-14 BASE PLATES SHALL BE FINISHED PER AISC SPECIFICATIONS, SECTION M2-8. COLUMN ENDS SHALL BE FINISHED PER CODE OF STANDARD PRACTICE, SECTION 6.2.2.

7-15 ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS. SIZE OF WELD SHALL BE BASED ON AISC STANDARDS FOR THICKER PART JOINED.

7-16 STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC. OR ANY OTHER SUBSTANCE WHICH MAY IMPAIR PROPER ADHESION OF THE FIREPROOFING.

7-17 ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL HAVE NON-DESTRUCTIVE TESTING PERFORMED BY EITHER ULTRASONIC TESTING OR RADIOGRAPHY. THE BASIC RATE OF TESTING SHALL BE 100% BUT MAY BE REDUCED AS ALLOWED BY AISC 341-10 SECTIONS J6.2g AND J6.2h.

7-18 BASE METAL THICKER THAN 1 1/2" INCHES, WHEN SUBJECTED TO THROUGH-THICKNESS WELD SHRINKAGE STRAINS, SHALL BE ULTRASONICALLY INSPECTED FOR DISCONTINUITIES AFTER JOINT COMPLETION AS REQUIRED BY AISC 341-10 SECTION J6.2c.

7-19 HEADED CONCRETE ANCHORS (HCA), THREADED STUD ANCHORS (TSA) AND DEFORMED BAR ANCHORS (DBA) SHALL BE AS MANUFACTURED BY NELSON STUD WELDING, INC. OR EQUIVALENT. HCAs, TSAs AND DBAs SHALL BE INSTALLED WITH A STUD WELDING GUN ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS. ALTERNATE WELDING PROCESSES MUST BE REVIEWED IN ADVANCE BY THE ENGINEER.

7-20 ALL STRUCTURAL STEEL EMBEDS SHALL BE PROVIDED WITH 3/16" DIAMETER NAIL HOLES AT 12" O.C. MAXIMUM SPACING EACH WAY AND 3 HOLES MINIMUM PER EMBED. THESE NAIL HOLES SHALL BE UTILIZED BY THE INSTALLER TO SECURELY FASTEN THE EMBED TO THE CONCRETE FORMWORK.

7-21 WHERE SHORT SLOTTED HOLES ARE USED IN AN OUTER PLY, A STANDARD WASHER SHALL BE PROVIDED. WHERE HIGH STRENGTH BOLTS ARE USED, SUCH WASHERS SHALL BE HARDENED. THE WASHERS SHALL BE OF SUFFICIENT SIZE TO COMPLETELY COVER THE HOLE AFTER INSTALLATION.

7-22 WHERE LONG SLOTTED HOLES ARE USED IN AN OUTER PLY, PLATE WASHERS OR A CONTINUOUS BAR WITH STANDARD HOLES, HAVING A SIZE SUFFICIENT TO COMPLETELY COVER THE SLOT AFTER INSTALLATION, SHALL BE PROVIDED. IN HIGH STRENGTH BOLTED CONNECTIONS, SUCH PLATES OR CONTINUOUS BARS SHALL NOT BE LESS THAN 5/16" THICK AND SHALL BE ASTM A36 MATERIAL. IF HARDENED WASHERS ARE REQUIRED FOR USE, THEY SHALL BE PLACED OVER THE PLATE WASHER OR BAR.

SECTION 8: METAL DECK

8-1 METAL DECK SHALL BE VERCO METAL DECK OR EQUIVALENT. PROVIDE VENT TABS PER MANUFACTURERS SPECIFICATIONS WHERE CONCRETE FILL IS PLACED OVER DECK.

8-2 METAL DECK SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653 SS, WITH G60 GALVANIZED COATING. UNITS SHALL BE FASTENED TO ALL FRAMING BY 3/4" DIA. PUDDLE WELDS (1/2" DIA. NET) AT INTERVALS INDICATED ON STRUCTURAL DRAWINGS. SIDELAP OF ADJACENT UNITS SHALL BE CONNECTED AS INDICATED ON STRUCTURAL DRAWINGS.

8-3 LIGHT GAGE CLOSURE ANGLES SHALL BE PROVIDED BY DECKING CONTRACTOR FOR ALL CONCRETE FILLED DECKS.

8-4 CONDUIT IN CONCRETE SLABS ON METAL DECK:

- A. THE STRUCTURAL ENGINEER SHALL REVIEW PROPOSED CONDUIT LOCATIONS, SIZES AND SPACINGS PRIOR TO INSTALLATION.
- B. THE DIAMETER OF CONDUIT PLACED ON THE TOP OF THE DECKING SHALL NOT EXCEED 1/3 THE THICKNESS OF THE CONCRETE ABOVE THE TOP OF THE DECK. THE SPACING BETWEEN INDIVIDUAL CONDUIT RUNS SHALL BE 6"oc MINIMUM.
- C. CONDUIT RUNNING PARALLEL TO THE FLUTES MAY BE PLACED IN THE BOTTOM OF THE FLUTES PROVIDED A MINIMUM OF 1" CLEAR IS MAINTAINED FROM THE RIBBED WEBS (VERTICAL SIDES) AND BETWEEN ADJACENT PIPES IN THE SAME FLUTE.

8-5 METAL DECKING SHALL BE WELDED USING E60XX ELECTRODES, MINIMUM.

SECTION 9: STRUCTURAL STEEL STUDS

9-1 ALL STUDS, TRACKS AND BRIDGING SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED PER THE STEEL STUD MANUFACTURERS ASSOCIATION STANDARDS COMPLYING WITH ICC ESR-3064P OR EQUAL, AND BE OF THE TYPE, SIZE AND GAGE AS SHOWN ON THE STRUCTURAL DRAWINGS. MATERIALS USED TO FABRICATE THE STUDS, TRACKS, AND BRIDGING SHALL BE AS SPECIFIED BY THE MANUFACTURER. BRIDGING (WHERE NOT SHOWN) SHALL SATISFY THE RECOMMENDATION OF THE STEEL STUD MANUFACTURER. TRACKS (WHERE NOT SHOWN) SHALL BE 14 GAGE DEEP LEG TRACK.

SECTION 20: MISCELLANEOUS

20-1 NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED NON-METALLIC FORMULA HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION (ASTM C827) AFTER SET, ONE DAY COMPRESSIVE STRENGTH OF AT LEAST (ASTM C109) 3000 psi AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C191).

GENERAL STRUCTURAL NOTES CONTINUED

PROVIDE "SUPREME GROUT", FROM U.S. GROUT CORP.; "5 STAR GROUT", FROM BURKE CO.; "324", FROM CLIFFORD HILL, OR EQUIVALENT. MINIMUM f'c AT 28 DAYS = 5,000 psi.

20-2 THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS:

- A. ROOFS: 20 psf REDUCIBLE
- B. PARKING FLOORS: 40 psf REDUCIBLE
- C. STAIRS: 100 psf REDUCIBLE
- D. VEHICLE BARRIER: 6000 lbs PER CBC 1607.8.3

20-3 THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING LATERAL LOADS:

- A. WIND
  - BASIC WIND SPEED: 110 MPH
  - RISK CATEGORY: I I
  - EXPOSURE: C
  - INTERNAL PRESSURE COEFFICIENT: GCpi = 0.18

SEE SCHEDULE THIS SHEET FOR DESIGN WIND PRESSURES FOR EXTERNAL COMPONENTS AND CLADDING.

- B. SEISMIC
  - SHORT PERIOD SPECTRAL ACCELERATION: Ss = 1.12
  - 1-SECOND PERIOD SPECTRAL ACCELERATION: Si = 0.352
  - SOIL SITE CLASS: C
  - SHORT PERIOD SPECTRAL COEFFICIENT: S0s = 0.747
  - 1-SECOND PERIOD SPECTRAL COEFFICIENT: S0i = 0.340
  - RISK CATEGORY: I I
  - SEISMIC DESIGN CATEGORY: D
  - IMPORTANCE FACTOR: I = 1.00
  - RESPONSE MODIFICATION COEFFICIENT: R = 8
  - SPECIAL MOMENT FRAMES: Cs = 0.093
  - SEISMIC RESPONSE COEFFICIENT:

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE ANALYSIS

20-4 VERTICAL DEFORMATION COMPATIBILITY BETWEEN FLOORS: DESIGN AND ATTACHMENT OF ELEMENTS TO THE PRIMARY STRUCTURAL SYSTEM SHALL BE CAPABLE OF ACCOMMODATING VERTICAL MEMBER DEFLECTION WITHOUT STRUCTURAL OR COSMETIC DAMAGE. CONNECTIONS TO PRIMARY STRUCTURAL SYSTEM SHALL NOT BE MADE UNTIL ALL STRUCTURAL WORK SHOWN ON THE DRAWINGS IS COMPLETE, UNLESS SPECIFICALLY AUTHORIZED BY THE STRUCTURAL ENGINEER. SUPERIMPOSED LOAD DEFLECTION IS LIMITED TO THE LESSER OF 3/4" OR SPAN/360 FOR BUILDING EDGE BEAMS AND SPAN/360 FOR ALL OTHER BEAMS.

20-5 LATERAL DEFORMATION COMPATIBILITY BETWEEN FLOORS: DESIGN AND ATTACHMENT OF ELEMENTS TO THE PRIMARY STRUCTURAL SYSTEM SHALL BE GOVERNED BY ASCE 7 - SECTION 12.12.5, 13.5.2, 13.5.3 AND 13.5.4, AND LIMITED TO THE FOLLOWING:

- A. ELASTIC INTER-STORY DRIFT LIMIT: MEMBERS, CONNECTIONS, AND FINISHES SHALL BE CAPABLE OF ACCOMMODATING 3/4" LATERAL INTER-STORY DISPLACEMENT IN ANY DIRECTION WITHOUT STRUCTURAL OR COSMETIC DAMAGE.
- B. INELASTIC INTER-STORY DRIFT LIMIT: MEMBERS, CONNECTIONS, AND FINISHES SHALL BE CAPABLE OF ACCOMMODATING 2" OF LATERAL INTER-STORY DISPLACEMENT IN ANY DIRECTION WITHOUT STRUCTURAL FAILURE OR COLLAPSE.

SECTION 22: DEFERRED SUBMITTAL ITEMS & REQUIREMENTS

22-1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR ALL DEFERRED SUBMITTAL ITEMS.

22-2 THE CONTRACTOR SHALL PREPARE THE DEFERRED SUBMITTAL DOCUMENTS: CALCULATIONS, SHOP DRAWINGS, MATERIAL SPECIFICATIONS AND DATA SHEETS, ALL OF WHICH SHALL BE WET-STAMPED AND WET-SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. THE PREPARER OF THE DEFERRED SUBMITTAL DOCUMENTS IS SOLELY RESPONSIBLE FOR THEIR DESIGN.

22-3 DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD, WHO SHALL REVIEW THEM AND RETURN THEM TO THE CONTRACTOR WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

22-4 CULP AND TANNER'S REVIEW OF DEFERRED SUBMITTAL DOCUMENTS IS LIMITED TO VERIFICATION THAT THE DESIGN COMPLIES WITH THE PROJECT DESIGN INTENT, AND THAT THE PRIMARY STRUCTURAL SYSTEM DETAILED ON THE CULP AND TANNER DRAWINGS IS CAPABLE OF SUPPORTING THE IMPOSED LOADS AT CONNECTION POINTS. CULP AND TANNER IS NOT RESPONSIBLE FOR VERIFICATION OF CODE COMPLIANCE OF DEFERRED SUBMITTAL ITEMS.

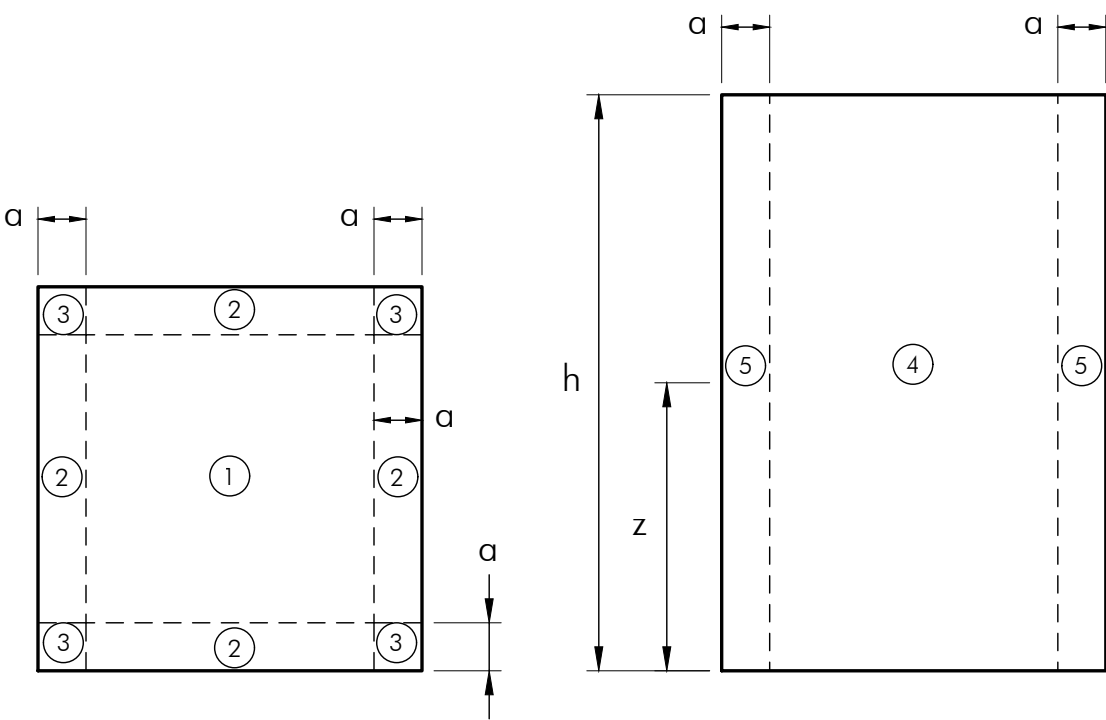
22-5 THE CONTRACTOR SHALL SUBMIT THE DEFERRED SUBMITTAL DOCUMENTS AND ANY OTHER SUPPORTING DOCUMENTATION REQUIRED TO THE BUILDING DEPARTMENT AND RESOLVE ALL PLAN CHECK CORRECTIONS REQUIRED TO OBTAIN A PERMIT FOR DEFERRED SUBMITTAL ITEMS. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT PROCEED UNTIL A PERMIT FOR THE ITEMS HAS BEEN OBTAINED BY THE CONTRACTOR.

22-6 THE CONTRACTOR SHALL COORDINATE ALL DEFERRED SUBMITTAL ITEMS WITH OTHER TRADES, THE ARCHITECT, AND OTHER CONSULTANTS. DESIGN SHALL INCLUDE THE DESIGN OF THE ELEMENT AND ITS CONNECTION TO THE STRUCTURE. EMBEDS REQUIRED BY DEFERRED SUBMITTAL CONTRACTORS SHALL BE FURNISHED, LAID OUT AND INSTALLED BY THAT SUBCONTRACTOR.

22-7 DEFERRED SUBMITTAL ITEMS SHALL BE DESIGNED TO SPAN HORIZONTALLY AND VERTICALLY TO STRUCTURAL SUPPORT MEMBERS. METAL ROOF DECK AND METAL DECK WITH CONCRETE FILL SHALL NOT BE CONSIDERED STRUCTURAL SUPPORT MEMBERS FOR DEFERRED SUBMITTAL ITEMS UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY THE ENGINEER OF RECORD.

22-8 ITEMS NOT DESIGNED BY CULP AND TANNER THAT MAY REQUIRE DEFERRED SUBMITTAL BY THE BUILDING DEPARTMENT INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

- A. EXTERIOR & INTERIOR METAL STUDS.
- B. WINDOW WALL, LOUVER, GLAZING AND SKYLIGHT SYSTEMS.
- C. STAIRS, HANDRAILS, GUARDRAILS, CABLE BARRIERS, AND LANDINGS.
- D. LIGHT STANDARD POLES, BASES AND ANCHORAGES.
- E. SUPPORTS AND CONNECTIONS FOR PIPES, SPRINKLER AND WASTE LINES, DUCTS, CONDUITS, SUSPENDED CEILINGS, SOFFITS, LIGHTS, CABLE TRAYS, ELECTRICAL, PLUMBING, AND MECHANICAL EQUIPMENT.
- F. LADDERS, GATES, AND METAL GRATING.
- G. ELEVATORS, ELEVATOR GUIDE RAILS, MACHINE BEAMS AND HOIST BEAMS.
- H. SIGNAGE
- I. VENEERS, FACADES, AND RELATED ANCHORAGE SYSTEMS.
- J. ANY STRUCTURE THAT IS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT IS REQUIRED BY OTHER DISCIPLINES, SUCH AS ARCHITECTURAL, MECHANICAL, ELECTRICAL, LANDSCAPE, ETC.



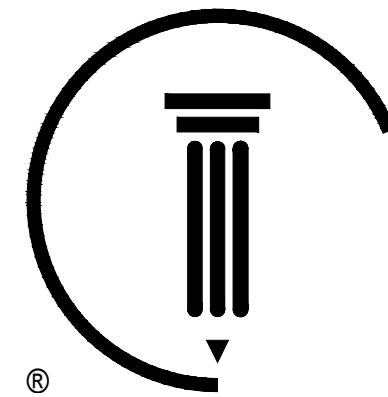
ROOF PLAN

WALL ELEVATION

ZONE	AREA = 10 ft²		AREA = 20 ft²		AREA = 50 ft²		AREA = 100 ft²		AREA = 200 ft²		AREA = 500 ft²	
	+p(psf)	-p(psf)	+p(psf)	-p(psf)	+p(psf)	-p(psf)	+p(psf)	-p(psf)	+p(psf)	-p(psf)	+p(psf)	-p(psf)
1	16.0	-28.9	16.0	-28.1	16.0	-27.1	16.0	-26.4	16.0	-26.4	16.0	-26.4
2	28.9	-48.4	27.6	-43.3	25.8	-36.4	24.5	-31.3	23.2	-31.3	21.5	-31.3
3	28.9	-48.4	27.6	-43.3	25.8	-36.4	24.5	-31.3	23.2	-31.3	21.5	-31.3
4	28.9	-31.3	27.6	-30.0	25.8	-28.3	24.5	-27.0	23.2	-25.7	21.5	-24.0
5	28.9	-38.6	27.6	-35.9	25.8	-32.5	24.5	-30.1	23.2	-27.4	21.5	-24.0
TYP PARAPET	70.5	-52.9	63.9	-50.2	55.1	-46.7	48.5	-44.0	47.1	-41.3	45.4	-37.8
CORNER PARAPET	70.5	-60.5	63.9	-56.4	55.1	-51.1	48.5	-47.2	47.1	-43.1	45.4	-37.8

NOTES:

- POSITIVE SIGNS SIGNIFY PRESSURES ACTING TOWARD THE EXTERIOR SURFACE. NEGATIVE SIGNS SIGNIFY PRESSURES ACTING AWAY FROM THE EXTERIOR SURFACE. POSITIVE AND NEGATIVE FORCES DO NOT ACT CONCURRENTLY.
- a (ft) = 9.20



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**TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY**

Sheet Title

**STRUCTURAL  
COVER SHEET  
CONTINUED**

Sheet Number

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1721 S100 & S101

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SPECIAL INSPECTION NOTES

SECTION 24: STATEMENT OF SPECIAL INSPECTIONS

24-1 SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, THIS STATEMENT AND CBC SECTIONS 1704 & 1705.

24-2 SEE GENERAL NOTE 1-6 FOR TYPES OF WORK REQUIRING SPECIAL INSPECTIONS.

24-3 SEE THE APPLICABLE TABLE ON THIS SHEET FOR THE FREQUENCY OF INSPECTIONS AND REFERENCE FOR CRITERIA. INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. INTERIM REPORTS AND A FINAL REPORT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH CBC SECTION 1704.2.4.

24-4 THE BUILDING SEISMIC FORCE RESISTING SYSTEM CONSISTS OF HORIZONTALLY SPANNING FLOOR AND ROOF DIAPHRAGMS SUPPORTED BY SPECIAL MOMENT FRAMES.

24-5 SEE CBC SECTIONS 1705.11, 1705.12 AND 1705.13 FOR ADDITIONAL ITEMS REQUIRING SPECIAL INSPECTION AND TESTING FOR WIND AND THE SEISMIC DESIGN CATEGORY SPECIFIED IN GENERAL NOTE 20-3.

24-6 CERTIFIED MILL TEST REPORTS SHALL BE SUBMITTED FOR EACH SHIPMENT OF DEFORMED REINFORCING TO BE USED IN BEAMS, COLUMNS AND WALLS WHICH ARE PART OF THE SEISMIC FORCE RESISTING SYSTEMS.

24-7 TESTING CONTAINED IN THE STRUCTURAL STEEL FABRICATORS QUALITY ASSURANCE PLAN SHALL BE AS REQUIRED BY AISC 341.

24-8 SEISMIC CERTIFICATION OF NON-STRUCTURAL COMPONENTS SHALL COMPLY WITH CBC SECTION 1705.13.2.

24-9 EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, INSTALLATION OF EQUIPMENT/COMPONENTS REQUIRING SPECIAL SEISMIC CERTIFICATION, OR A WIND OR SEISMIC RESISTING COMPONENT LISTED IN NOTE 24-4 SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTORS STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN SPECIAL INSPECTION NOTE SECTION 24.

Table 4 — Level B Quality Assurance

MINIMUM TESTS				
Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with Article 1.5 B.1.b.3 for self-consolidating grout				
Verification of $f'_m$ and $f'_{ACI}$ in accordance with Article 1.4 B prior to construction, except where specifically exempted by the Code.				
MINIMUM SPECIAL INSPECTION				
Inspection Task	Frequency <sup>(a)</sup>		Reference for Criteria	
	Continuous	Periodic	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
1. Verify compliance with the approved submittals		X		Art. 1.5
2. As masonry construction begins, verify that the following are in compliance:				
a. Proportions of site-prepared mortar		X		Art. 2.1, 2.6 A
b. Construction of mortar joints		X		Art. 3.3 B
c. Grade and size of prestressing tendons and anchorages		X		Art. 2.4 B, 2.4 H
d. Location of reinforcement, connectors, and prestressing tendons and anchorages		X		Art. 3.4, 3.6 A
e. Prestressing technique		X		Art. 3.6 B
f. Properties of thin-bed mortar for AAC masonry	X <sup>(b)</sup>	X <sup>(c)</sup>		Art. 2.1 C
3. Prior to grouting, verify that the following are in compliance:				
a. Grout space		X		Art. 3.2 D, 3.2 F
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		X	Sec. 6.1	Art. 2.4, 3.4
c. Placement of reinforcement, connectors, and prestressing tendons and anchorages		X	Sec. 6.1, 6.2.1, 6.2.6, 6.2.7	Art. 3.2 E, 3.4, 3.6 A
d. Proportions of site-prepared grout and prestressing grout for bonded tendons		X		Art. 2.6 B, 2.4 G.1.b
e. Construction of mortar joints		X		Art. 3.3 B

Table 4 — Level B Quality Assurance (Continued)

MINIMUM SPECIAL INSPECTION				
Inspection Task	Frequency <sup>(a)</sup>		Reference for Criteria	
	Continuous	Periodic	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
4. Verify during construction:				
a. Size and location of structural elements		X		Art. 3.3 F
b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction		X	Sec. 1.2.1(e), 6.1.4.3, 6.2.1	
c. Welding of reinforcement	X		Sec.8.1.6.7.2, 9.3.3.4 (c), 11.3.3.4(b)	
d. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))		X		Art. 1.8 C, 1.8 D
e. Application and measurement of prestressing force	X			Art. 3.6 B
f. Placement of grout and prestressing grout for bonded tendons is in compliance	X			Art. 3.5, 3.6 C
g. Placement of AAC masonry units and construction of thin-bed mortar joints	X <sup>(b)</sup>	X <sup>(c)</sup>		Art. 3.3 B.9, 3.3 F.1.b
5. Observe preparation of grout specimens, mortar specimens, and/or prisms		X		Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

(a) Frequency refers to the frequency of Special Inspection, which may be continuous during the task listed or periodic during the listed task, as defined in the table.

(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.

(c) Required after the first 5000 square feet (465 square meters) of AAC masonry.

TABLE 1705.2.3  
REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD <sup>a</sup>
1. Installation of open-web steel joists and joist girders.			
a. End connections – welding or bolted.	—	X	SJI specifications listed in Section 2207.1.
b. Bridging – horizontal or diagonal.	—		
1. Standard bridging.	—	X	SJI specifications listed in Section 2207.1.
2. Bridging that differs from the SJI specifications listed in Section 2207.1.		X	

For SI: 1 inch = 25.4 mm.

a. Where applicable, see also Section 1705.12, Special inspections for seismic resistance.

TABLE 1705.3  
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD <sup>a</sup>	IBC REFERENCE
1. Inspect reinforcement, including prestressing tendons, and verify placement.	—	X	ACI 318 Ch. 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
2. Reinforcing bar welding:				
a. Verify weldability of reinforcing bars other than ASTM A706;	—	X		
b. Inspect single-pass fillet welds, maximum $\frac{7}{16}$ ”;		X	AWS D1.4 ACI 318: 26.5.4	—
c. Inspect all other welds.	X			
3. Inspect anchors cast in concrete.	—	X	ACI 318: 17.8.2	—
4. Inspect anchors post-installed in hardened concrete members. <sup>b</sup>				
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X		ACI 318: 17.8.2.4	—
b. Mechanical anchors and adhesive anchors not defined in 4.a.		X	ACI 318: 17.8.2	
5. Verify use of required design mix.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C172 ASTM C31 ACI 318: 26.4.5, 26.12	1908.10
7. Inspect concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.4.7-26.4.9	1908.9
9. Inspect prestressed concrete for:				
a. Application of prestressing forces; and	X	—	ACI 318: 26.9.2.1	—
b. Grouting of bonded prestressing tendons.	X	—	ACI 318: 26.9.2.3	
10. Inspect erection of precast concrete members.	—	X	ACI 318: Ch. 26.8	—
11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.10.2	—
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.10.1(b)	—

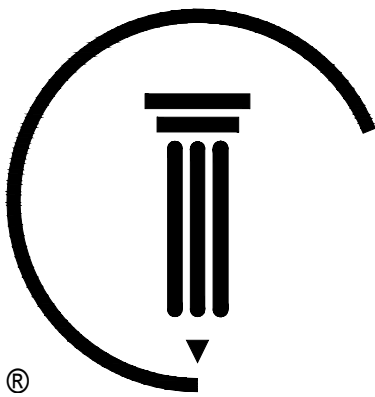
For SI: 1 inch = 25.4 mm.

a. Where applicable, see also Section 1705.12, Special inspections for seismic resistance.

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

TABLE 1705.6  
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	—	X
2. Verify excavations are extended to proper depth and have reached proper material.	—	X
3. Perform classification and testing of compacted fill materials.	—	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	—
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	—	X



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MAIN ENTRY

Sheet Title

SPECIAL  
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NOTES

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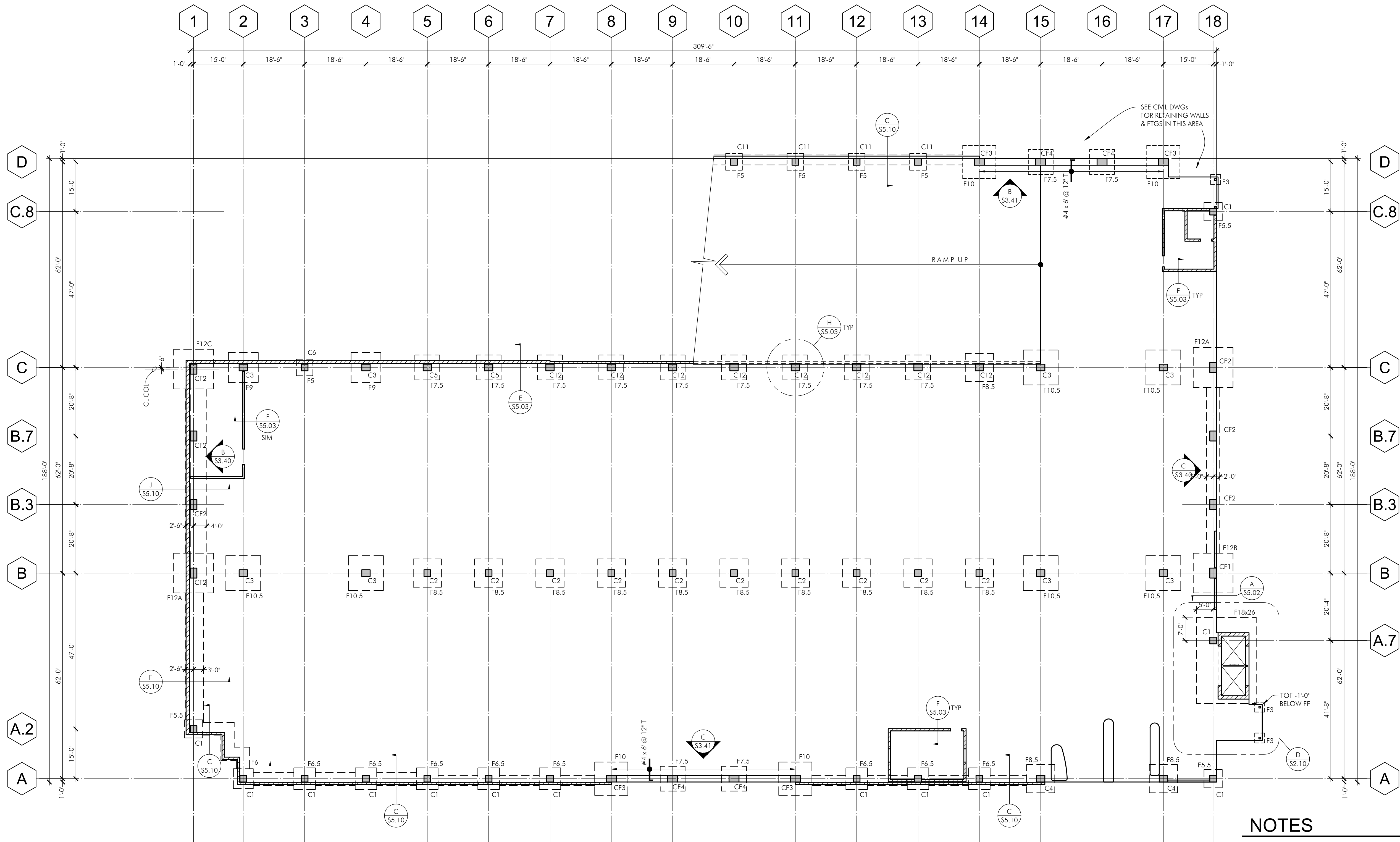
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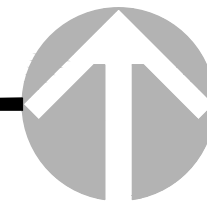
MARK	PLAN SIZE	THICKNESS	REINF EW BOT UNO
F3	3'-0" SQ	1'-0"	4-#4
F5	5'-0" SQ	1'-4"	6-#5
F5.5	5'-6" SQ	1'-4"	7-#5
F6	6'-0" SQ	1'-4"	7-#5
F6.5	6'-6" SQ	1'-8"	7-#6
F7.5	7'-6" SQ	1'-8"	8-#6
F8.5	8'-6" SQ	2'-0"	11-#6
F9	9'-0" SQ	2'-0"	11-#6
F10	10'-0" SQ	3'-0"	9-#6 EW TOP 18-#6 EW BOT
F10.5	10'-6" SQ	2'-4"	15-#6
F12A	12'-0" SQ	3'-6"	9-#7 EW TOP 18-#7 EW BOT
F12B	12'-0" SQ	6'-0"	16-#7 EW T&B
F12C	12'-0" SQ	5'-0"	13-#7 EW T&B
F18x26	18'-0" x 26'-0"	2'-6"	#6 @ 16" EW TOP #6 @ 8" EW BOT

#### NOTES:

- LOCATE FOOTINGS CENTERED UNDER COLUMN(S) EACH WAY, UNO.

### GROUND LEVEL FOUNDATION PLAN

1/16" = 1'-0"



### NOTES

- SEE S5.01, S5.02 & S5.03 FOR TYPICAL CONCRETE DETAILS. SEE S6.01 FOR TYPICAL STEEL DETAILS.
- "F<sub>x</sub>" INDICATES FOOTING MARK - SEE SCHEDULE THIS SHEET. "C<sub>x</sub>" INDICATES CONCRETE COLUMN MARK - SEE SCHED ON S3.10. "CF<sub>x</sub>" INDICATES CONCRETE FRAME COLUMN MARK - SEE SCHED ON S3.10. "HS<sub>xxxx</sub>" INDICATES HOLLOW STRUCTURAL STEEL COLUMN - SIZE AS NOTED. "W<sub>xxxx</sub>" INDICATES WIDE FLANGE COLUMN - SIZE AS NOTED. "P<sub>x</sub>" INDICATES PIPE COLUMN - SIZE AS NOTED.
- SLABS ON GRADE SHALL BE 5 1/2" THICK UNO, w/ #4 @ 16"oc EW UNO. SEE GEOTECHNICAL REPORT, ARCHITECT AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. SLABS ON GRADE SPECIFIED ON THE STRUCTURAL DRAWING ARE DIAPHRAGMS AND PART OF THE LATERAL FORCE RESISTING SYSTEM.
- HOOK ALL SLAB ON GRADE REINFORCEMENT AT EDGE OF SLAB.
- REFER TO SOILS REPORT(S) FOR ADDITIONAL INFORMATION.
- VERIFY ALL TOP OF SLAB, WALL AND STEP ELEVATIONS AND LOCATIONS, AND OPENING SIZES AND LOCATIONS WITH ARCHITECT.
- REBAR LENGTHS NOTED ON PLAN DO NOT INCLUDE HOOK LENGTH, IF ANY.
- PROVIDE MISC CONNECTION ITEMS AT STAIRS, ELEVATORS, EXTERIOR WALL SYSTEMS AND ELEC & MECH EQUIPMENT AS REQUIRED BY MANUFACTURERS AND ARCHITECT. EXTERIOR WALL SYSTEMS ARE DESIGNED BY OTHERS.



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**TCMC PARKING  
STRUCTURE AND  
MAIN ENTRY**

Sheet Title

**GROUND LEVEL  
FOUNDATION  
PLAN**

Sheet Number

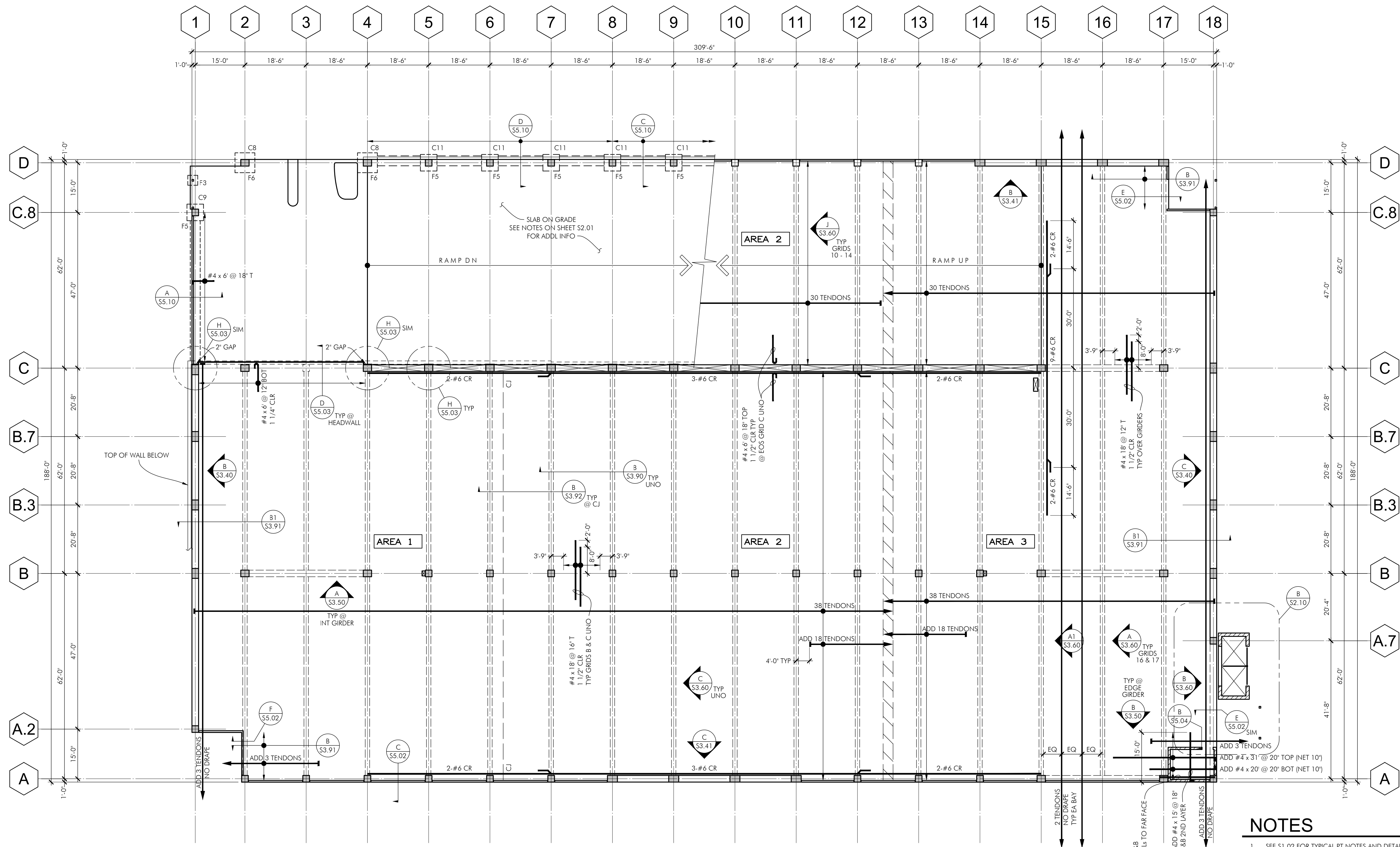
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1721 PLAN

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## SECOND LEVEL FRAMING PLAN

1/16" = 1'-0"

### NOTES

- SEE S1.02 FOR TYPICAL PT NOTES AND DETAILS.  
SEE S3.90, S3.91, S3.92 & S3.93 FOR TYPICAL SLAB SECTIONS & DETAILS.  
SEE S5.01, S5.02 & S5.03 FOR TYPICAL CONCRETE DETAILS.  
SEE S6.01 FOR TYPICAL STEEL DETAILS.
- SLABS SHALL BE 5" THICK, UNO.
- VERIFY ALL TOP OF SLAB, WALL AND STEP ELEVATIONS AND LOCATIONS, AND OPENING SIZES AND LOCATIONS WITH ARCHITECT.
- PROVIDE 1" CLR TYP TO TOP SLAB REINFORCING UNO.
- TYP PT TENDON ORDINATES ARE AS FOLLOWS, UNO:  
A. AT STRESSING AND ANCHORAGE ENDS - AT MID DEPTH OF SLAB  
B. OVER SUPPORTS - AT 1 1/4" BELOW TOP OF SLAB  
C. AT MID SPAN - AT 1" ABOVE BOTTOM OF SLAB  
D. ORDINATES SHOWN ON PLAN ARE MEASURED FROM SOFFIT OF SLAB UNLESS NOTED \*\* WHICH INDICATES AS MEASURED FROM BOTTOM OF BEAM AND DRC.  
E. \*\* INDICATES TENDON ORDNATE VARIES LINEARLY ALONG LINE SHOWN.
- SEE NOTE 12.9 ON SHEET S1.02 FOR ANCHORS DRILLED OR SHOT INTO POST-TENSIONED CONCRETE.
- HOOK ALL REINF BARS AT SLAB EDGES.
- REBAR LENGTHS NOTED ON PLAN DO NOT INCLUDE HOOK LENGTH, IF ANY.
- PROVIDE 1-#4 CONT T&B ALONG ALL SLAB EDGES, UNO AND EXTEND 4'-0" BEYOND INSIDE CORNERS UNO. SPACE ALL TRIM BARS @ 4"oc WHERE MULTIPLE BARS OCCUR.
- "CR" INDICATES CHORD REINFORCING, LAP SPICE @ SLAB CLOSURES, DOWN LAP SPICE WHERE CROSSING PERPENDICULAR CHORD REINFORCING. LOCATE CHORD REINFORCING @ 6"oc AND PROVIDE 2" MIN CLEAR COVER @ LAPS UNO.
- PROVIDE MISC CONNECTION ITEMS AT STAIRS, ELEVATORS, EXTERIOR WALL OPENINGS AND ELEC & MECH EQUIPMENT AS REQUIRED BY MANUFACTURERS. EXTERIOR WALL SYSTEMS ARE DESIGNED BY OTHERS.
- "SRx" INDICATES STUDRAIL CONFIGURATION MARK - SEE SCHEDULE THIS SHEET.
- SEE SHEET S2.01 FOR FOUNDATION NOTES & FOOTING SCHEDULE.



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**SECOND LEVEL  
FRAMING  
PLAN**

Sheet Number

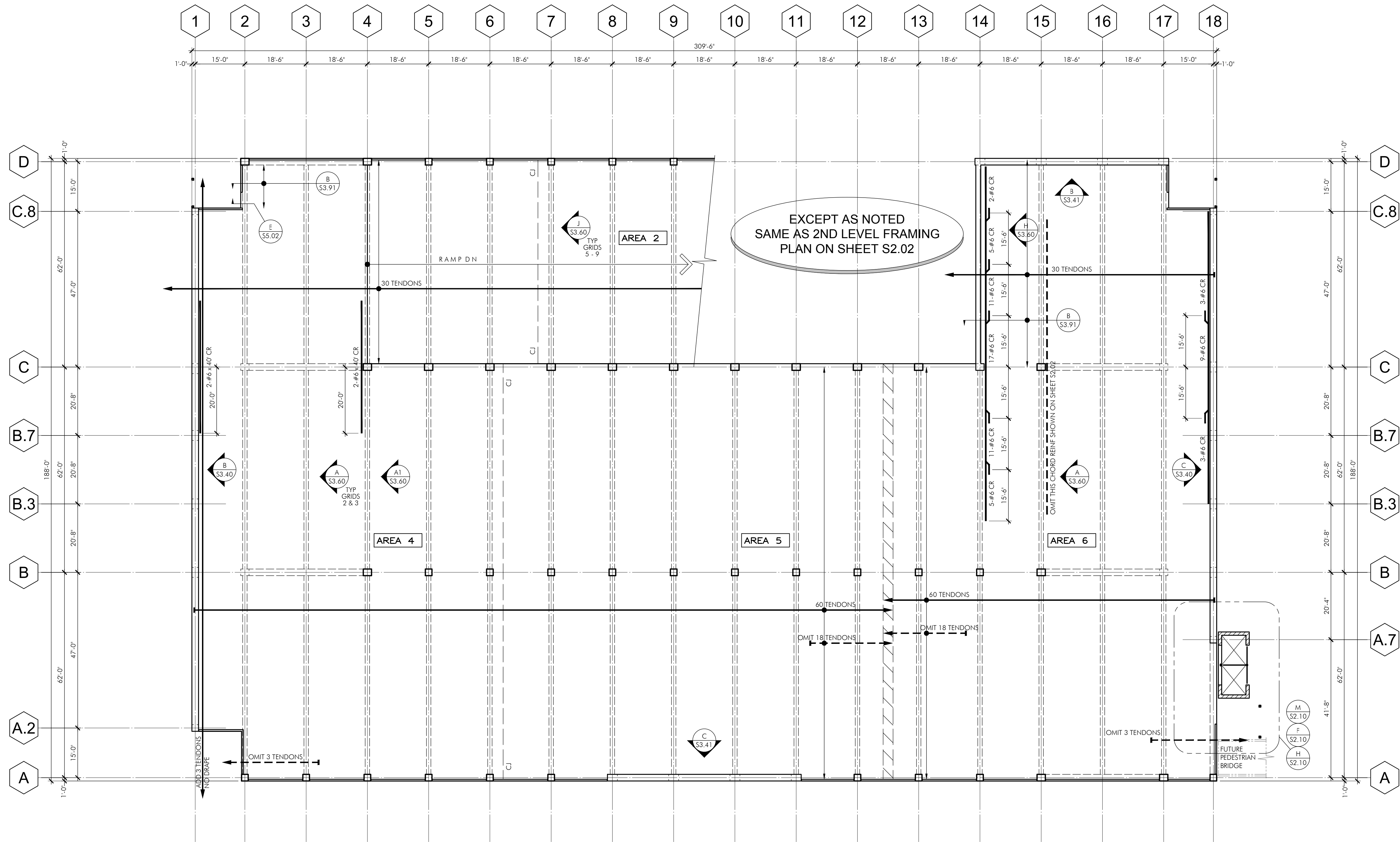
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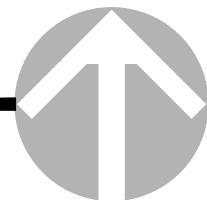


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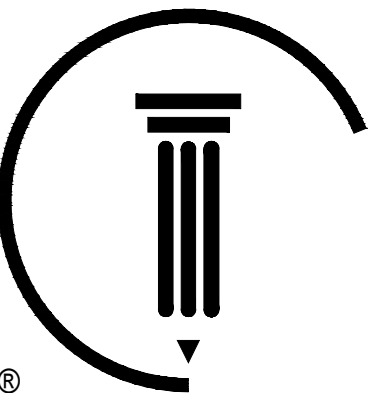


THIRD (ROOF) LEVEL FRAMING PLAN

1/16" = 1'-0"



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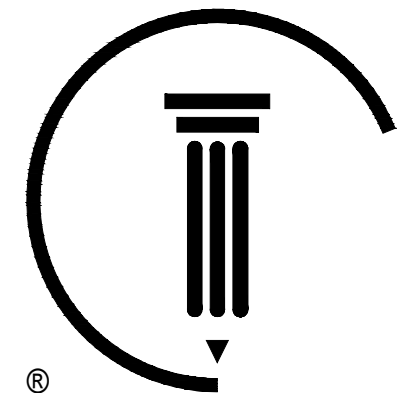
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THIRD (ROOF)  
LEVEL FRAMING  
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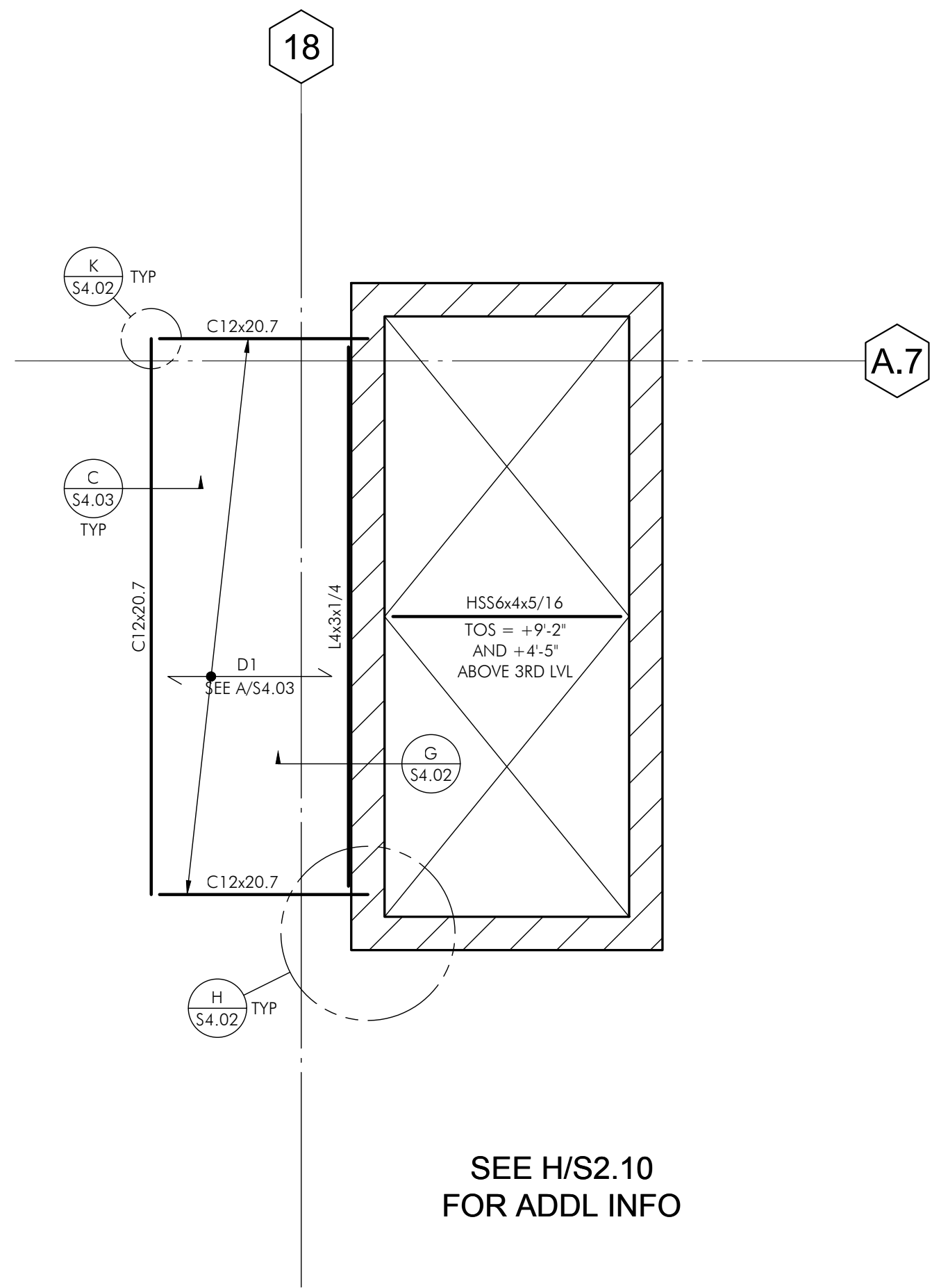
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Sheet Title  
**THIRD (ROOF)  
LEVEL FRAMING  
PLAN**

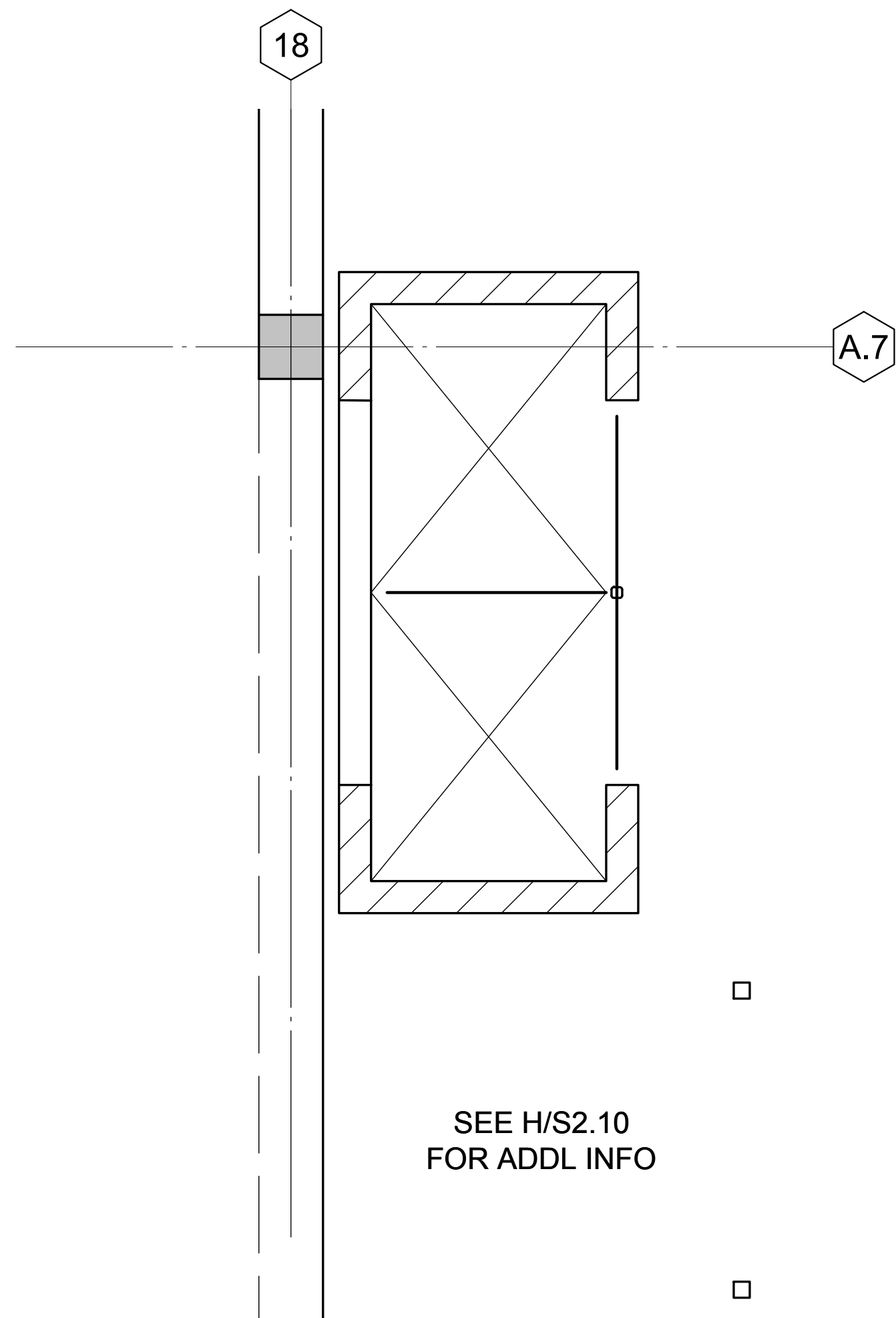
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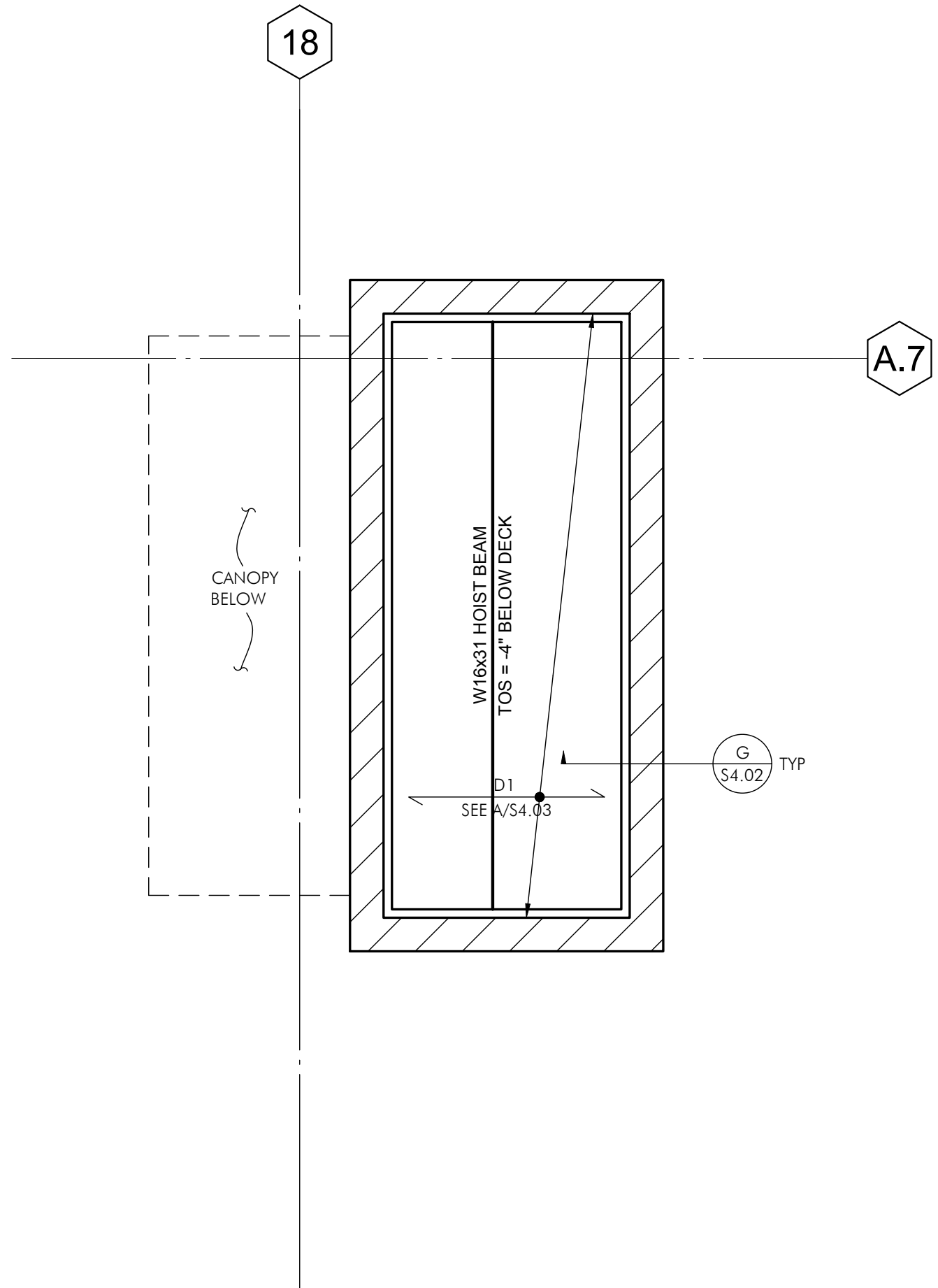
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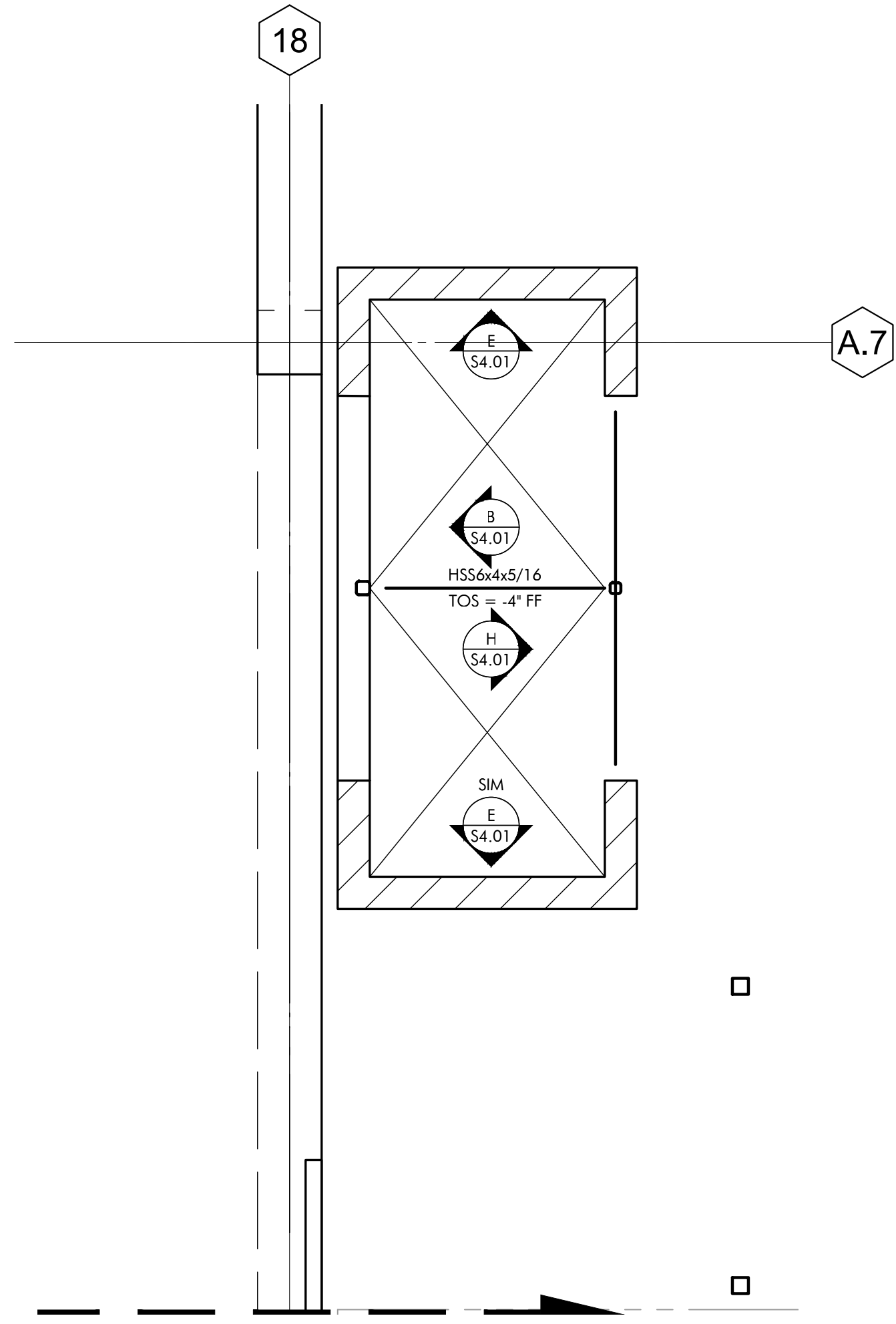
ELEV. CANOPY FRAMING PLAN  
1/4" = 1'-0" 14 F



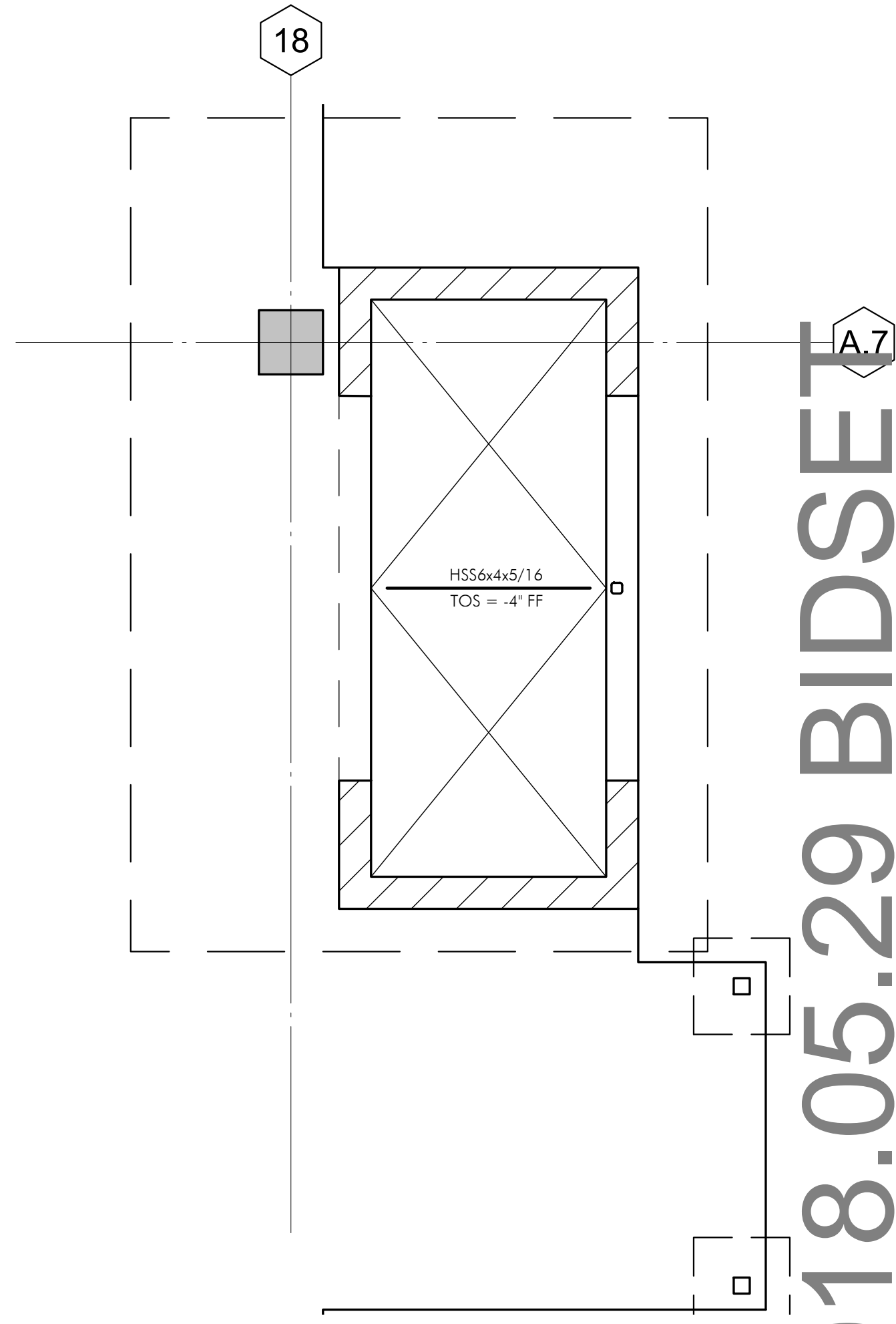
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1/4" = 1'-0" 14 B



ELEVATOR ROOF FRAMING PLAN  
1/4" = 1'-0" 14 M



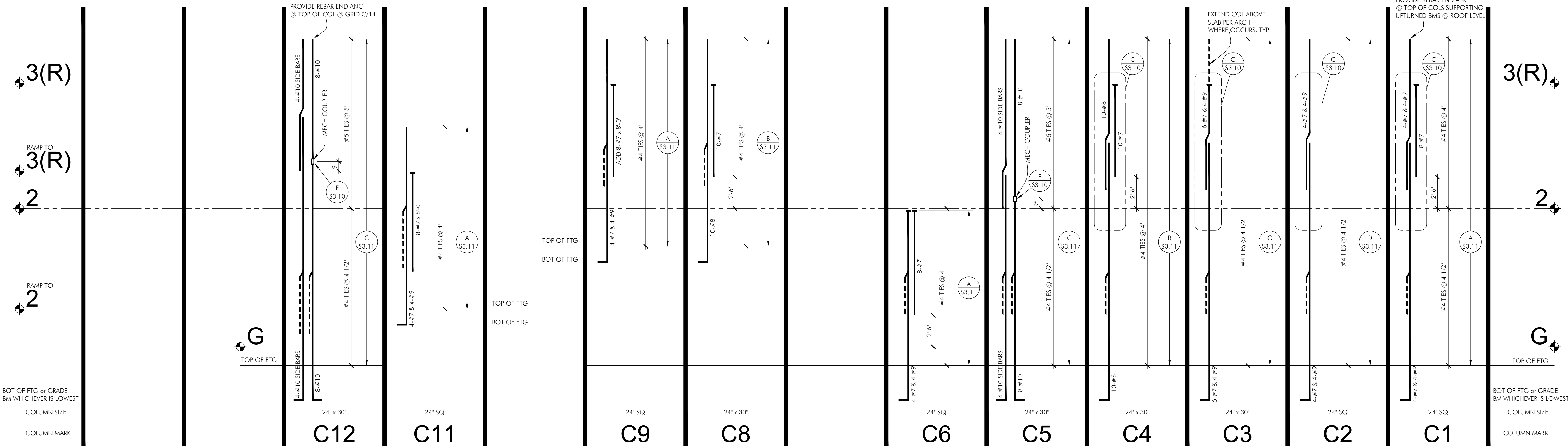
ELEVATOR SHAFT @ THIRD LVL  
1/4" = 1'-0" 14 H



ELEVATOR SHAFT @ GROUND LVL  
1/4" = 1'-0" 14 D

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COLUMN REINF LAP SCHEDULE

SMALLER BAR SIZE	LARGER BAR SIZE	MIN LAP LENGTH	SMALLER BAR SIZE	LARGER BAR SIZE	MIN LAP LENGTH	SMALLER BAR SIZE	LARGER BAR SIZE	MIN LAP LENGTH	SMALLER BAR SIZE	LARGER BAR SIZE	MIN LAP LENGTH
#6	#6 - #8	31"	#6	#11	43"	#7	#11	43"	#9	#9 - #11	45"
#6	#9	35"	#7	#7 - #9	35"	#8	#8 - #10	40"	#10	#10 - #11	50"
#6	#10	39"	#7	#10	39"	#8	#11	43"	#11	#11	55"

COLUMN NOTES

- REBAR SPICES SHOWN DASHED DERICT AN OPTIONAL SPLICE PATTERN WHICH MAY BE USED IN LIEU OF THE SPLICE PATTERN SHOWN.
- LAP LENGTHS IN THE COLUMN REINFORCING LAP SCHEDULE SHALL BE INCREASED BY 20% OR 33% WHERE 3 OR 4 BARS ARE BUNDLED TOGETHER RESPECTIVELY.
- PROVIDE 2-#4 TIES @ 3" @ TOP OF COLUMNS.

COLUMN SCHEDULE

NO SCALE CS63x3b 2 18b 35d 5a IBC06 Mpr 523 50r 35i 60h GRAVITY JD

- NOTE:
- CONDUIT ENTERING OR EXITING THE SLAB ON GRADE OR ELEVATED SLAB SHALL NOT EXCEED 1.5' OD.
  - CONDUIT SHALL NOT CROSS THROUGH THE COLUMN CORE.
  - TOTAL AREA OF VERTICAL CONDUIT AT ANY ONE SECTION SHALL NOT EXCEED 1.5% OF THE COLUMN AREA.
  - TOTAL AREA OF CONDUIT, FITTINGS AND ELECTRICAL BOXES AT ANY ONE SECTION SHALL NOT EXCEED 4% OF THE COLUMN AREA.
  - CONDUIT IS NOT ALLOWED ON THE SIDE WHERE POST TENSIONED ANCHORS OCCUR.

⊖ = ELECTRICAL CONDUIT

CONDUIT IN COL PLAN SECTION

1 1/2" = 1'-0" CPD101

J

RAMP COLUMN SPLICE

3' = 1'-0" CPD1001

F

COLUMN VERT SPLICE

NO SCALE TCD8500

38



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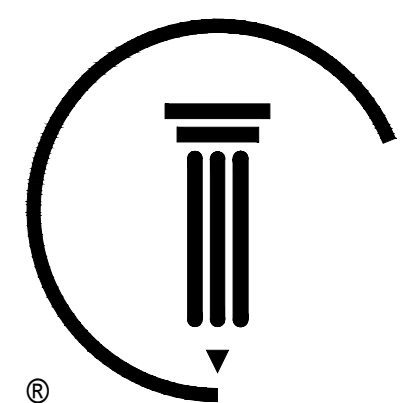
COLUMN SCHEDULE & DETAILS

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S3.10

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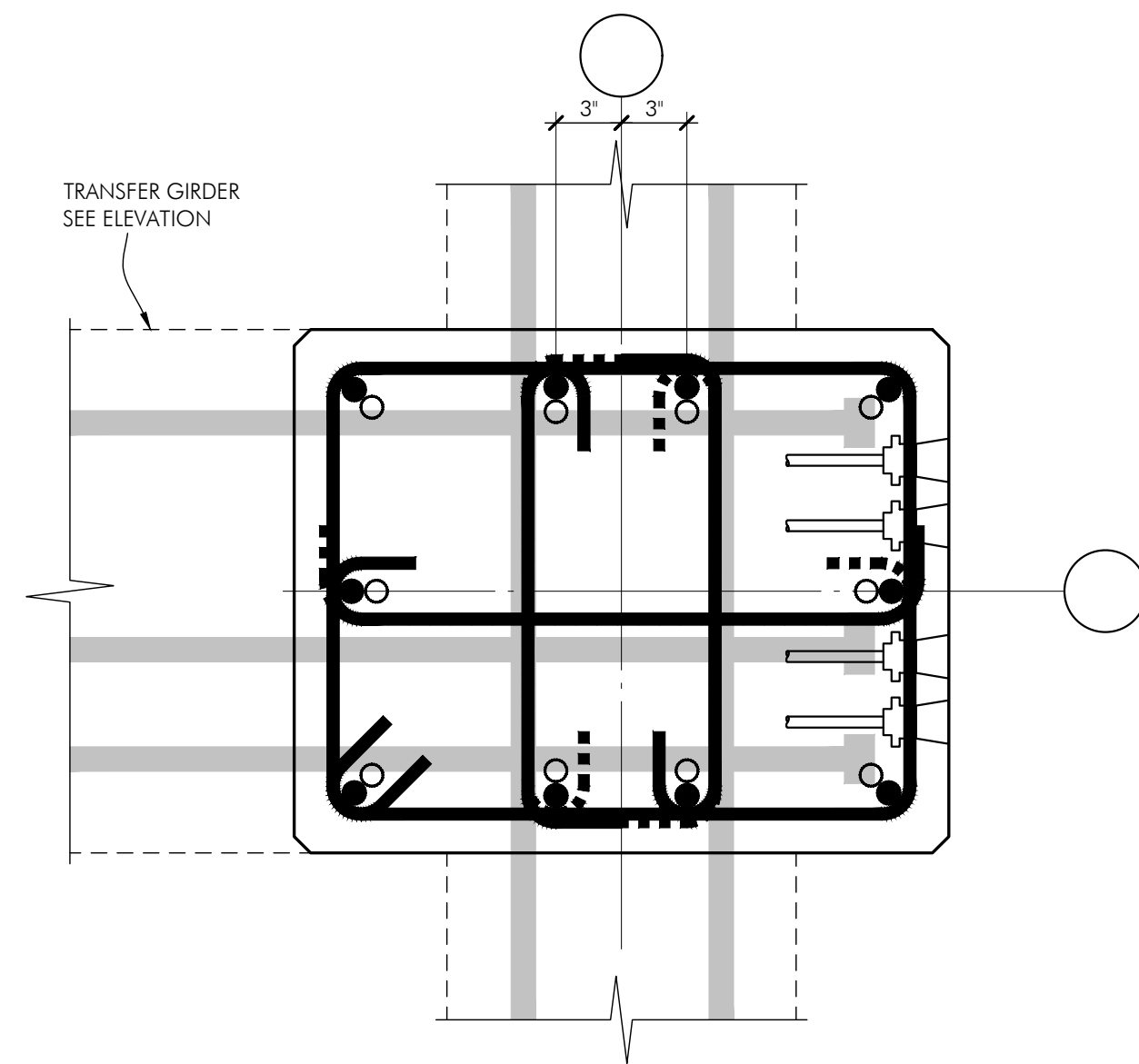


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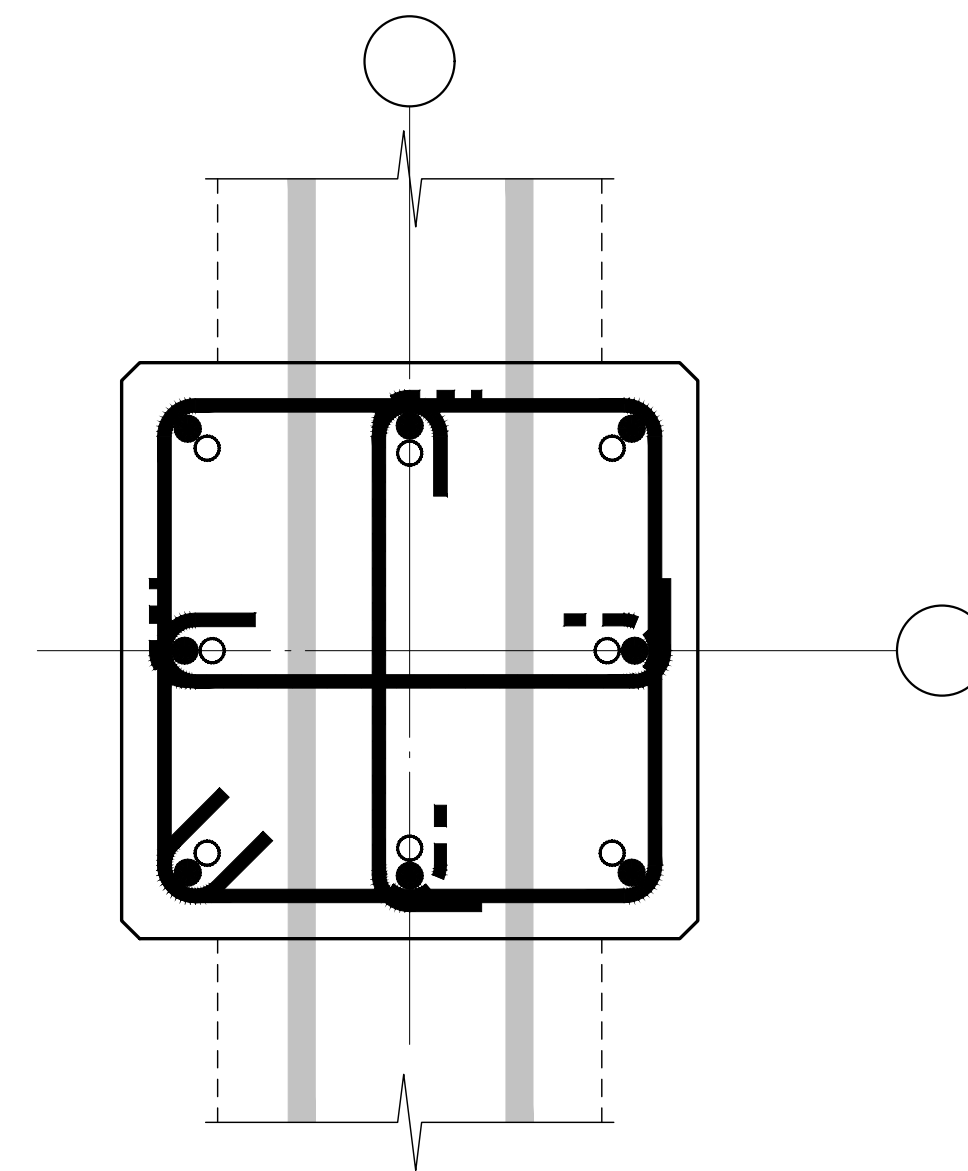


SEE A/S3.11 FOR ADDL INFO

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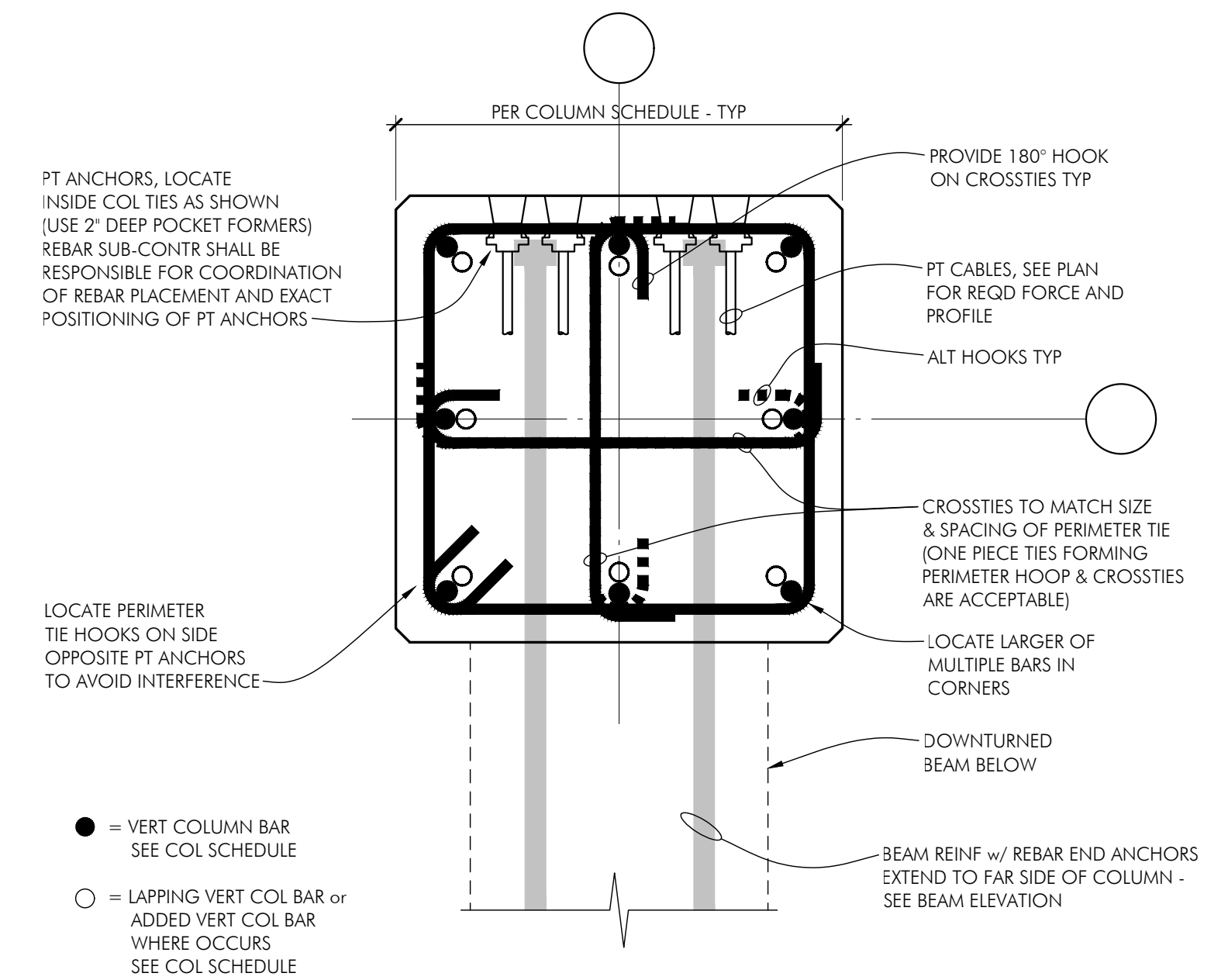


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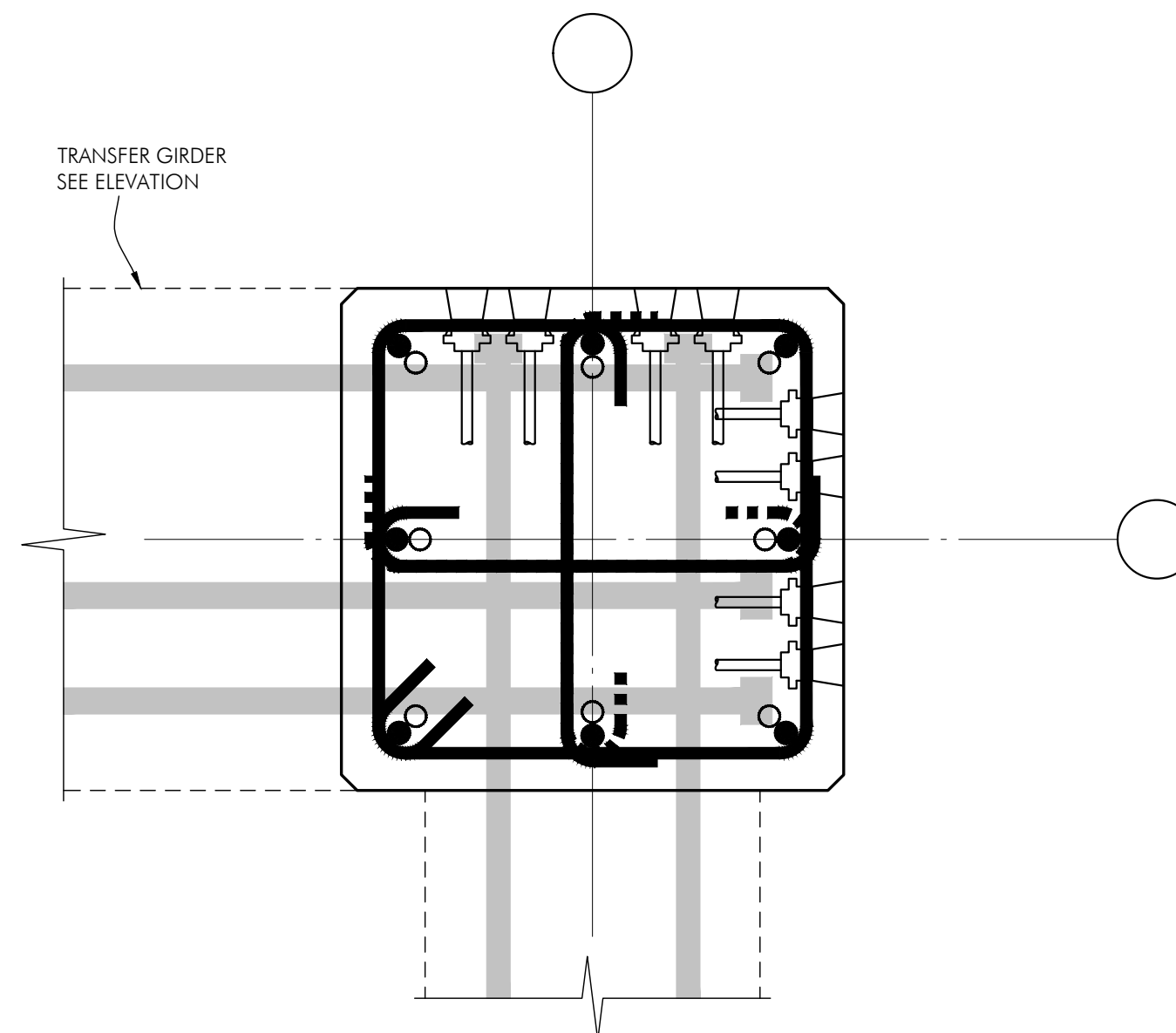


NOTE: SEE J/S3.10 FOR CONDUIT PLACEMENT.

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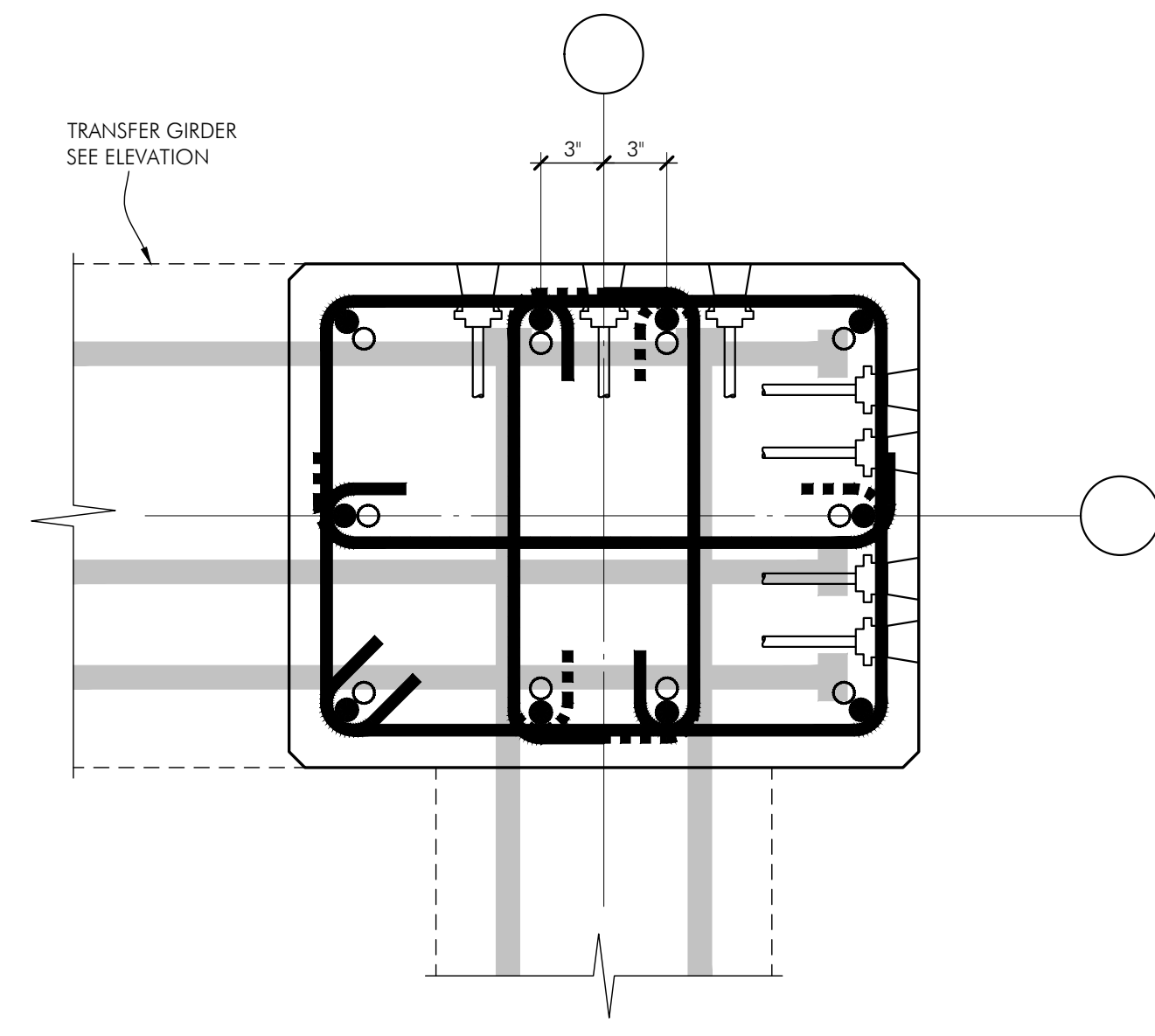


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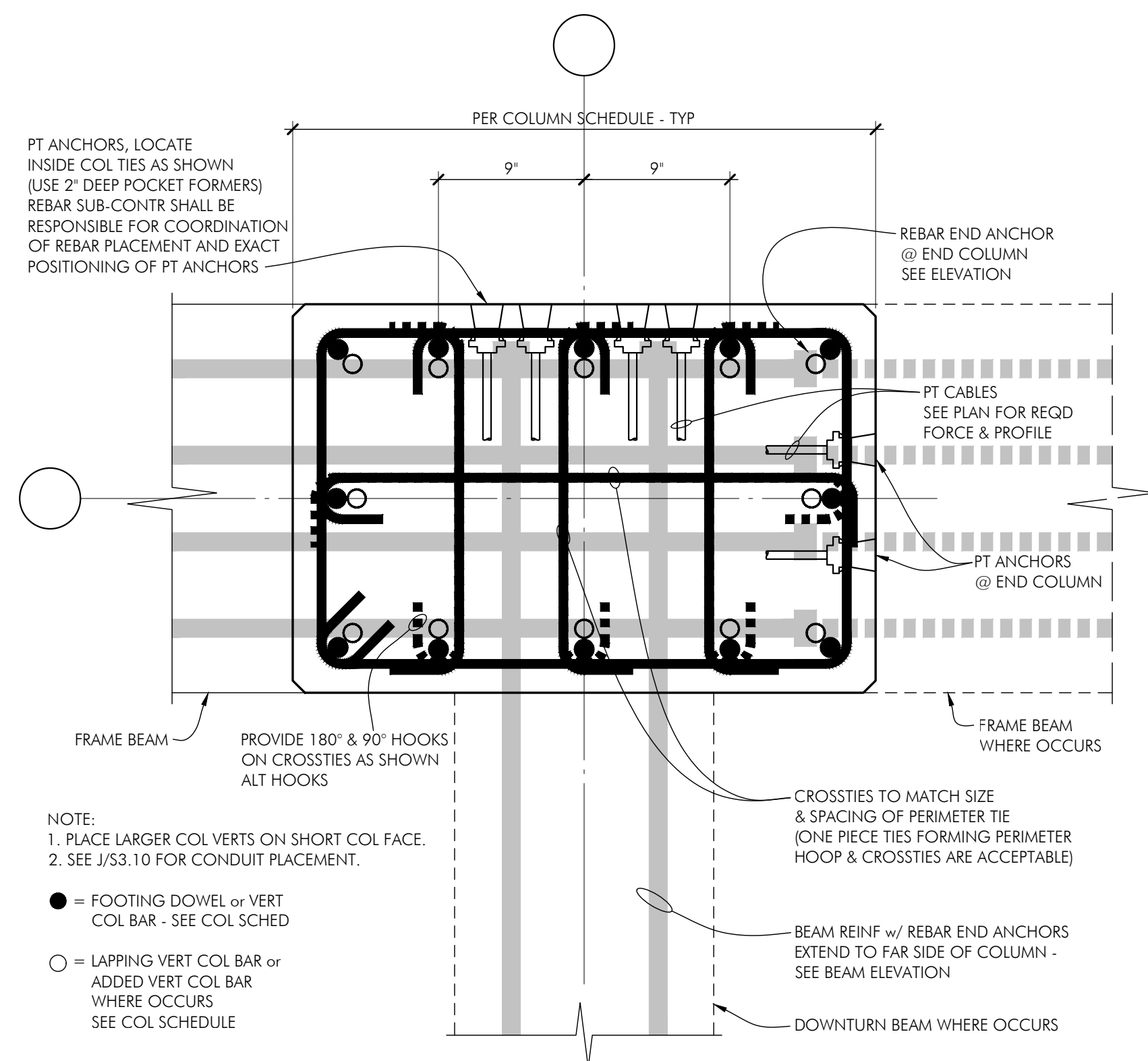


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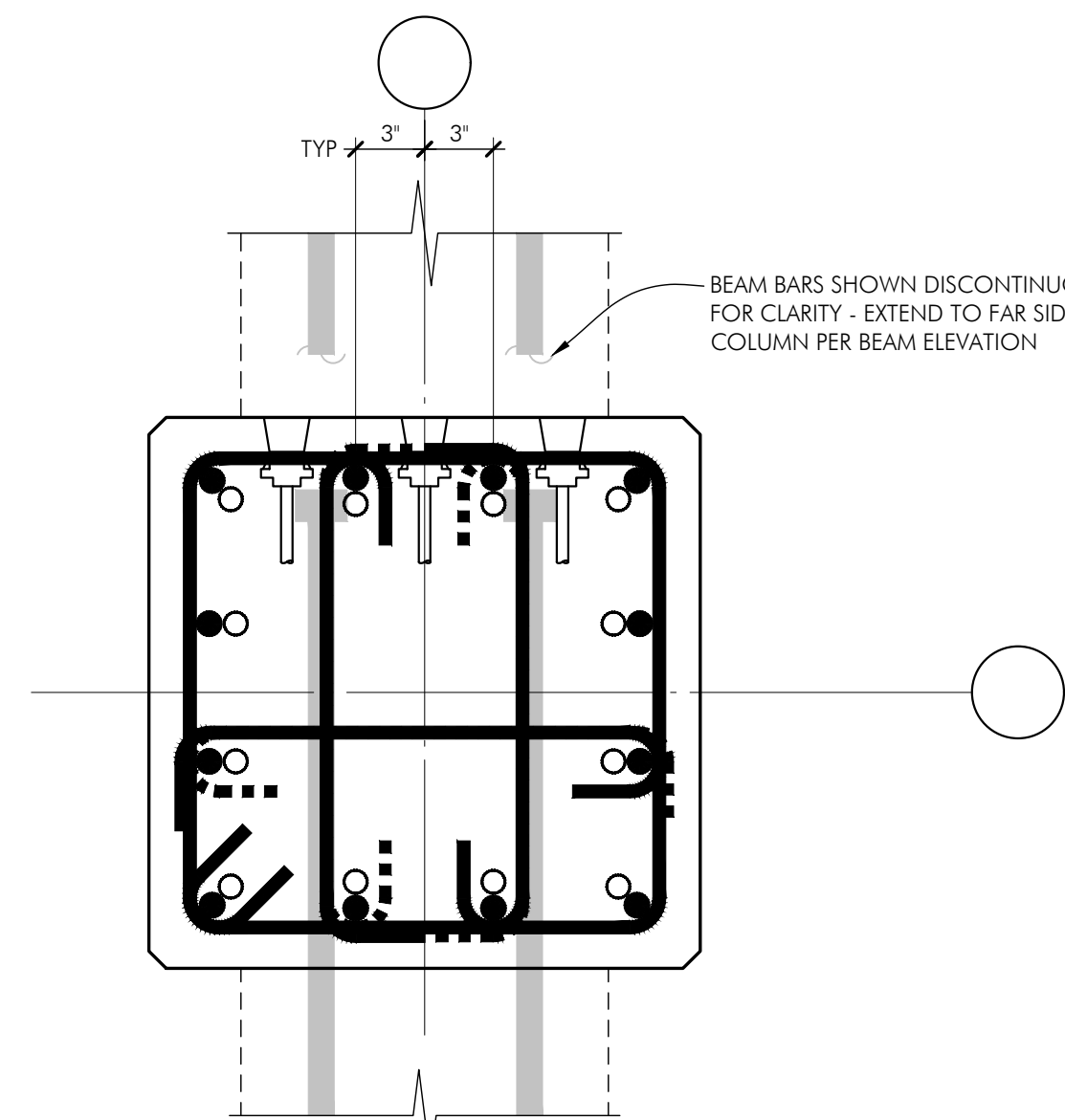
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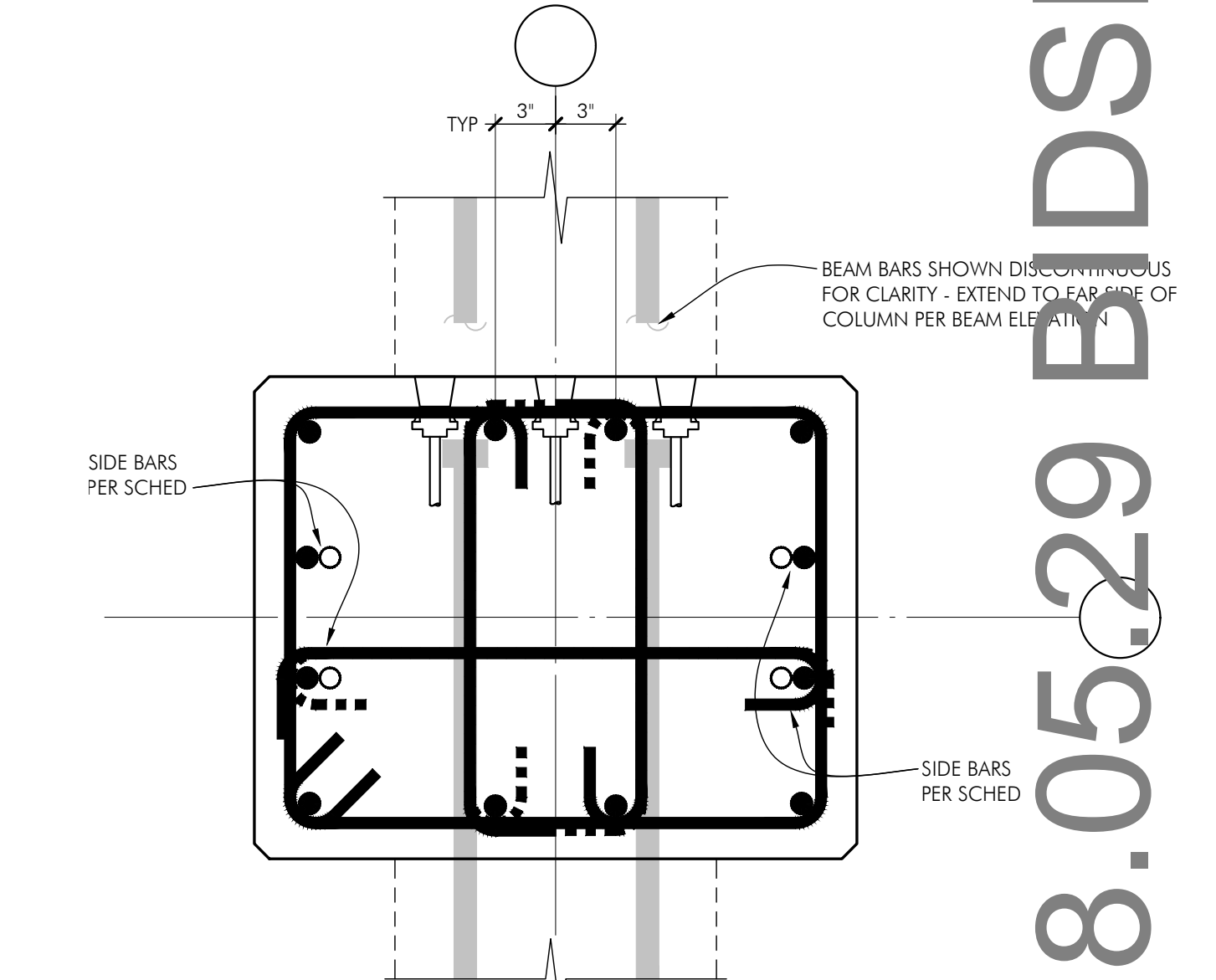


SEE A/S3.11 FOR ADDL INFO

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112 F

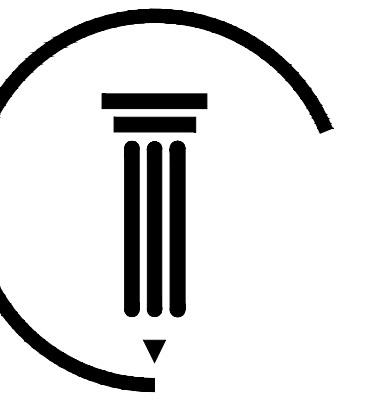


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112 F



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**COLUMN  
DETAILS**

Sheet Number

**S3.11**

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Sheet Title

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COLUMN  
SCHEDULE  
& DETAILS

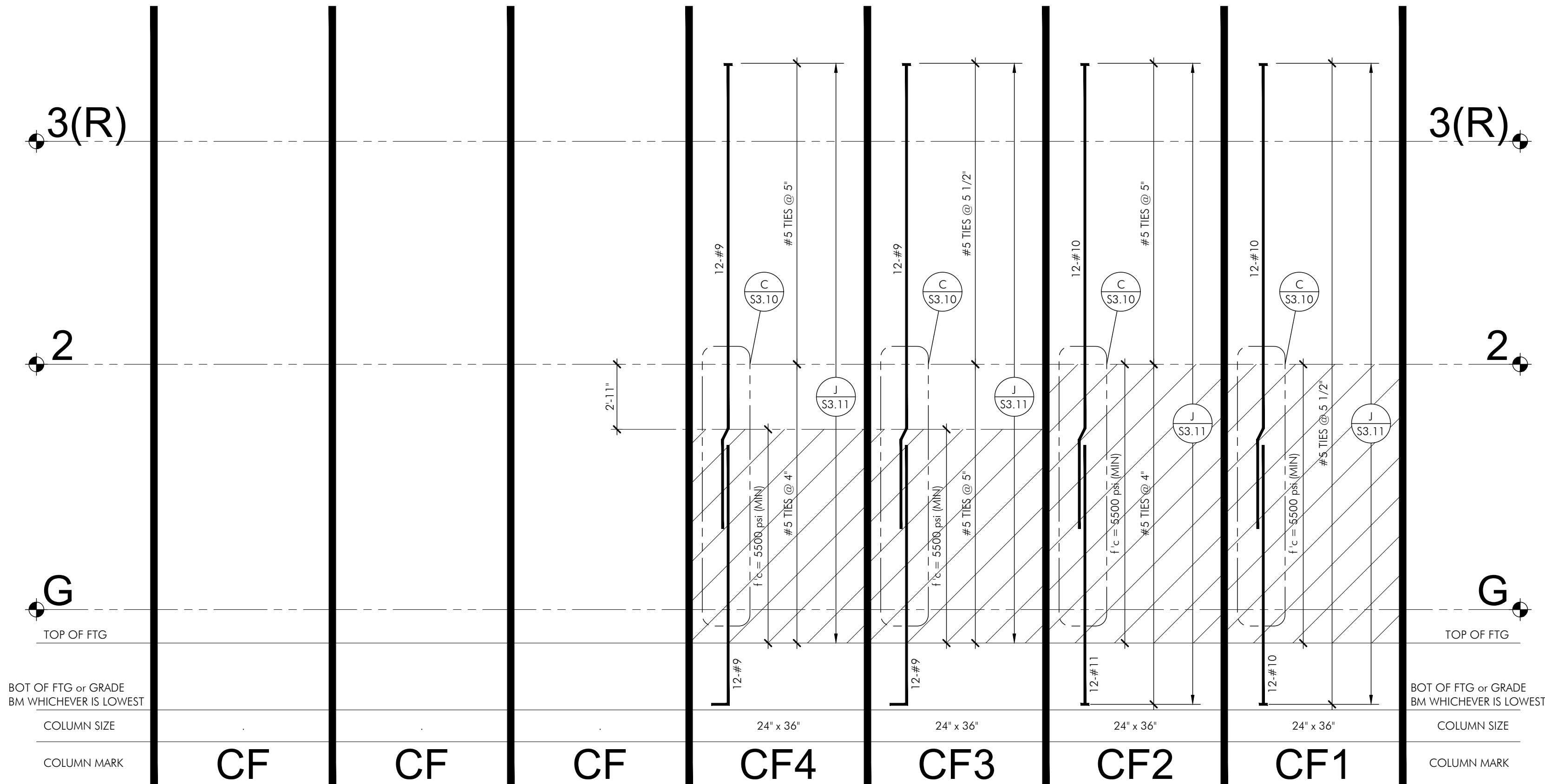
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### COLUMN REINF LAP SCHEDULE

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#6	#6 - #8	31"	#6	#11	43"	#7	#11	43"	#9	#9 - #11	45"
#6	#9	35"	#7	#7 - #9	35"	#8	#8 - #10	40"	#10	#10 - #11	50"
#6	#10	39"	#7	#10	39"	#8	#11	43"	#11	#11	55"

### COLUMN NOTES

1. EXTEND COLUMN TIES TO BOTTOM OF GRADE BEAM WHERE OCCUR.

### FRAME COLUMN SCHEDULE

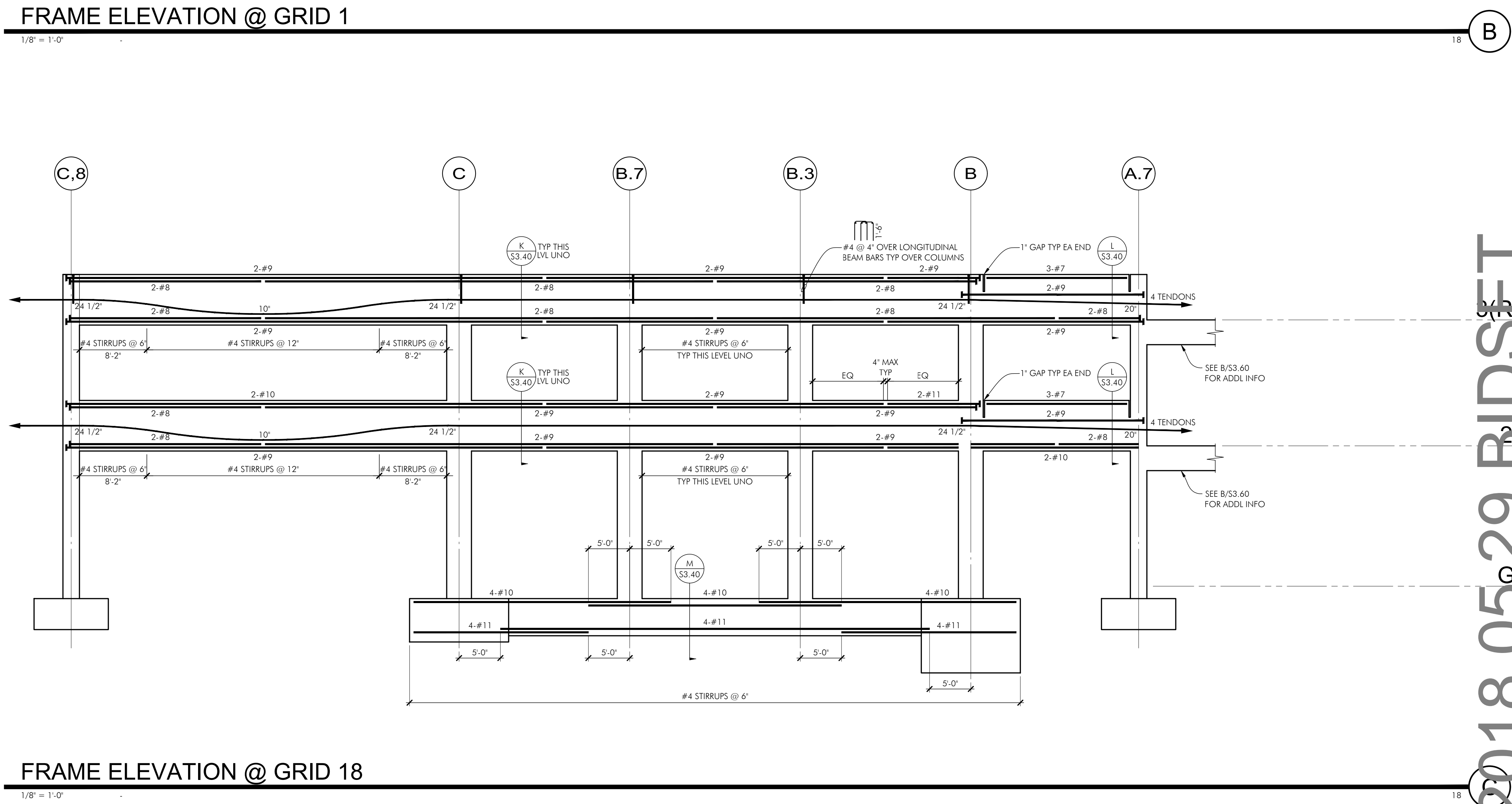
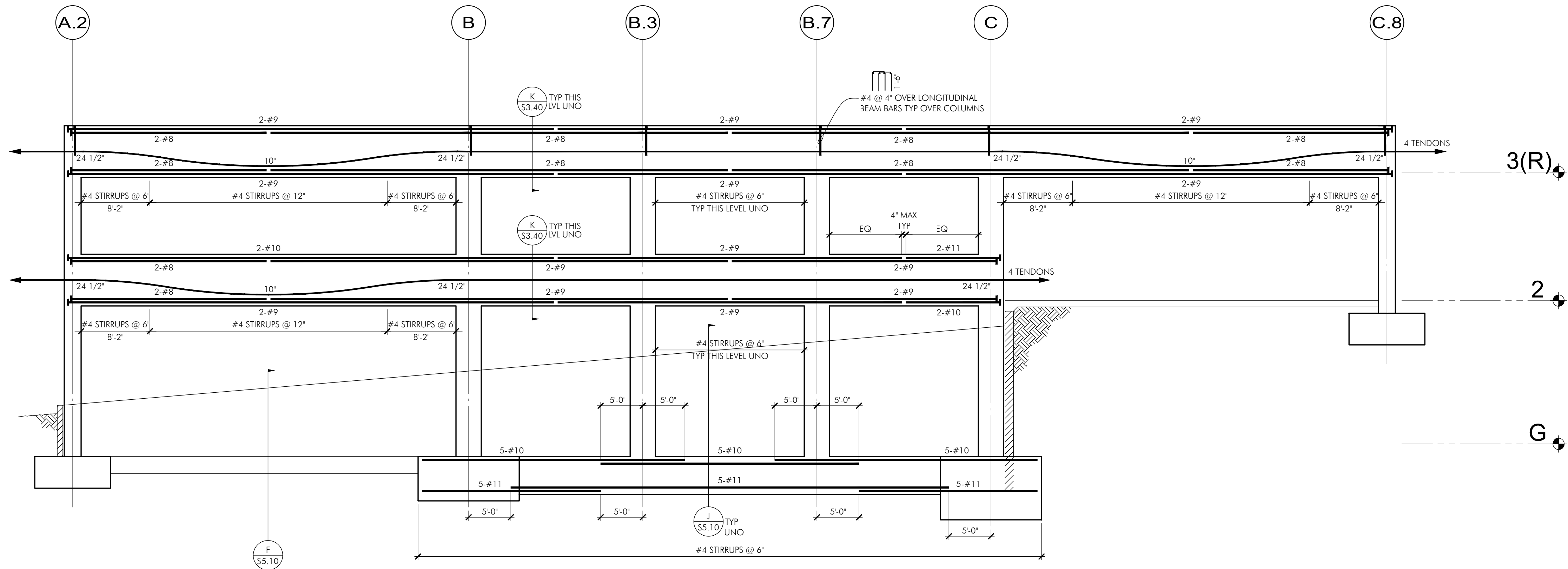
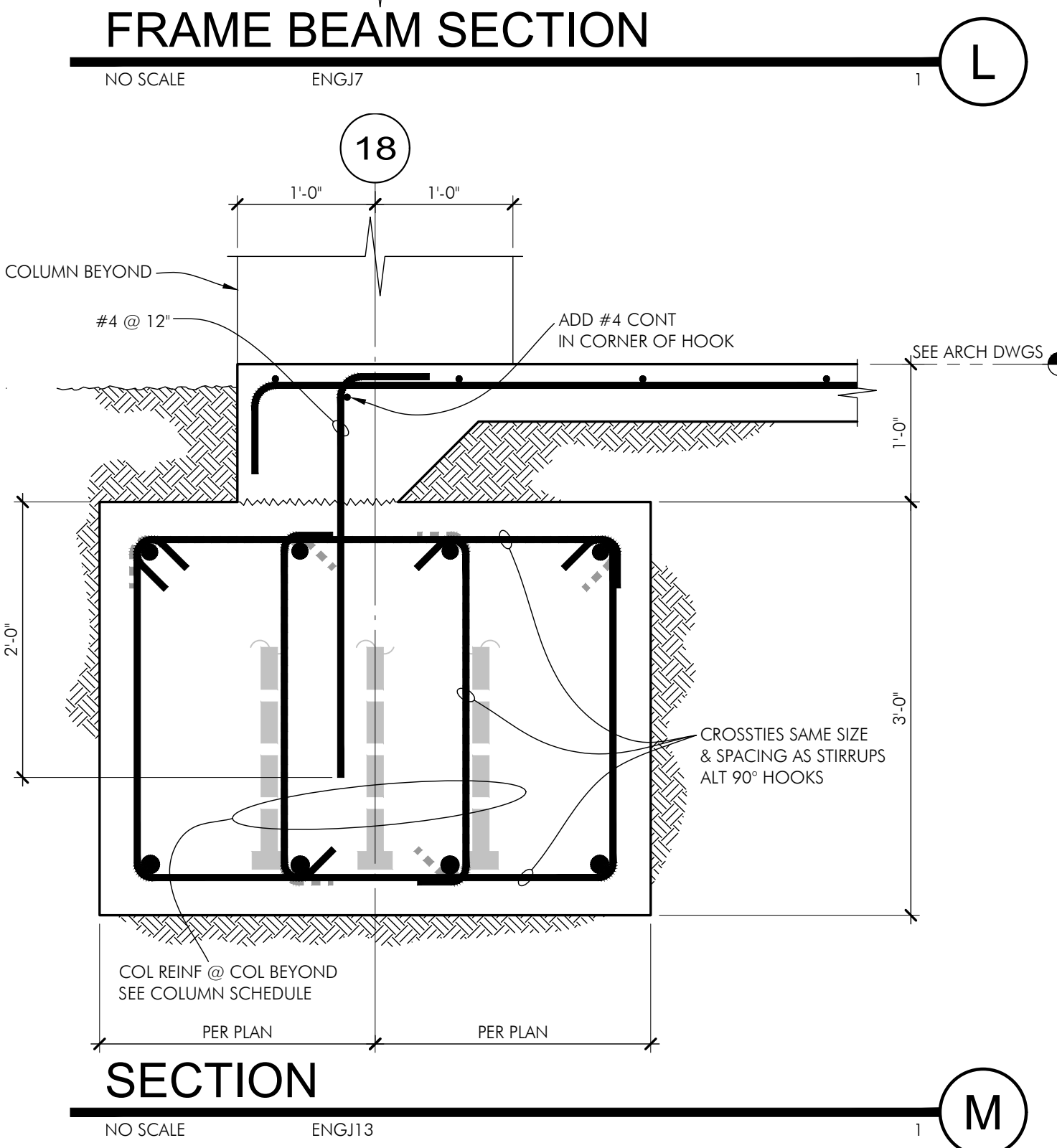
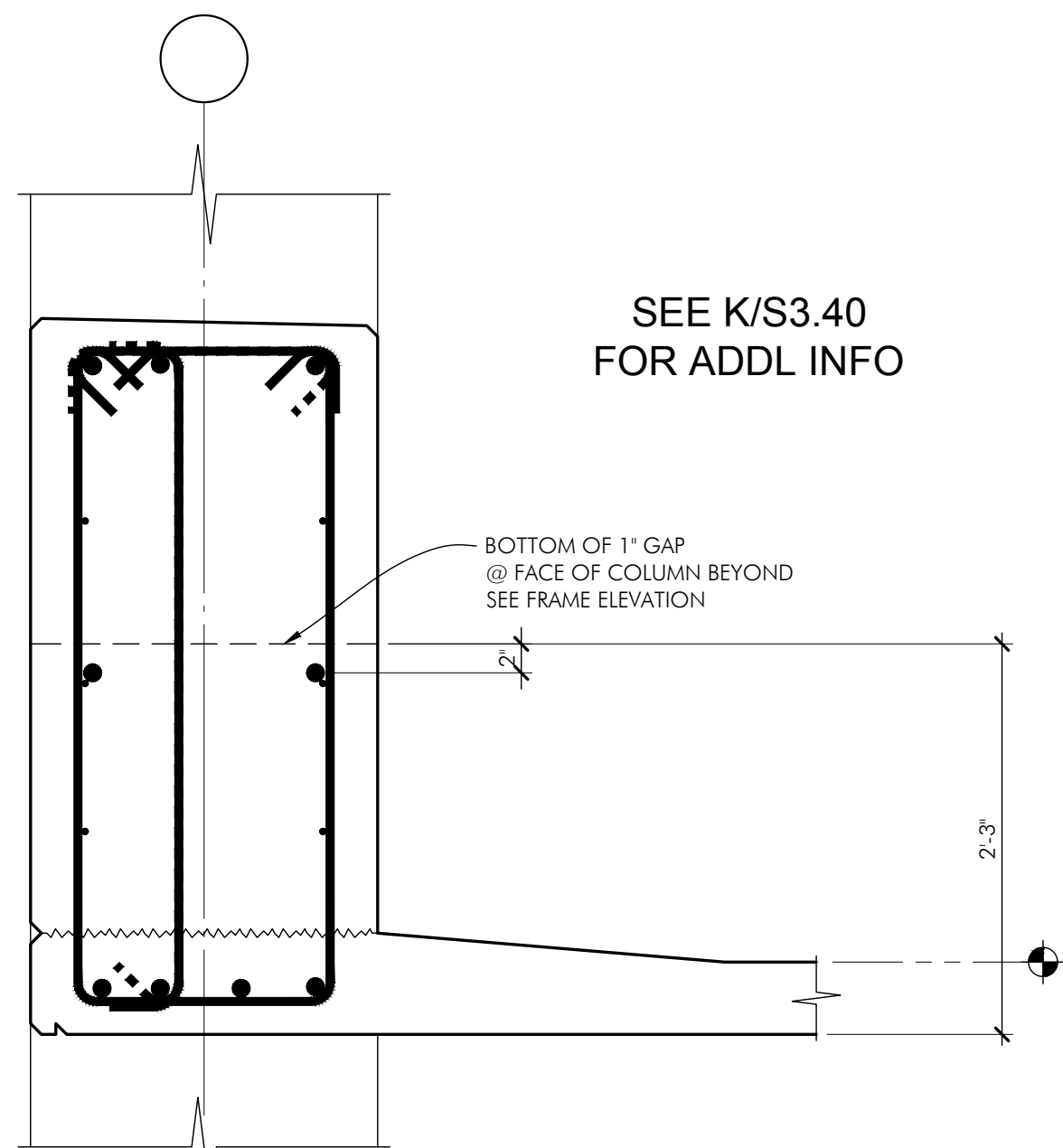
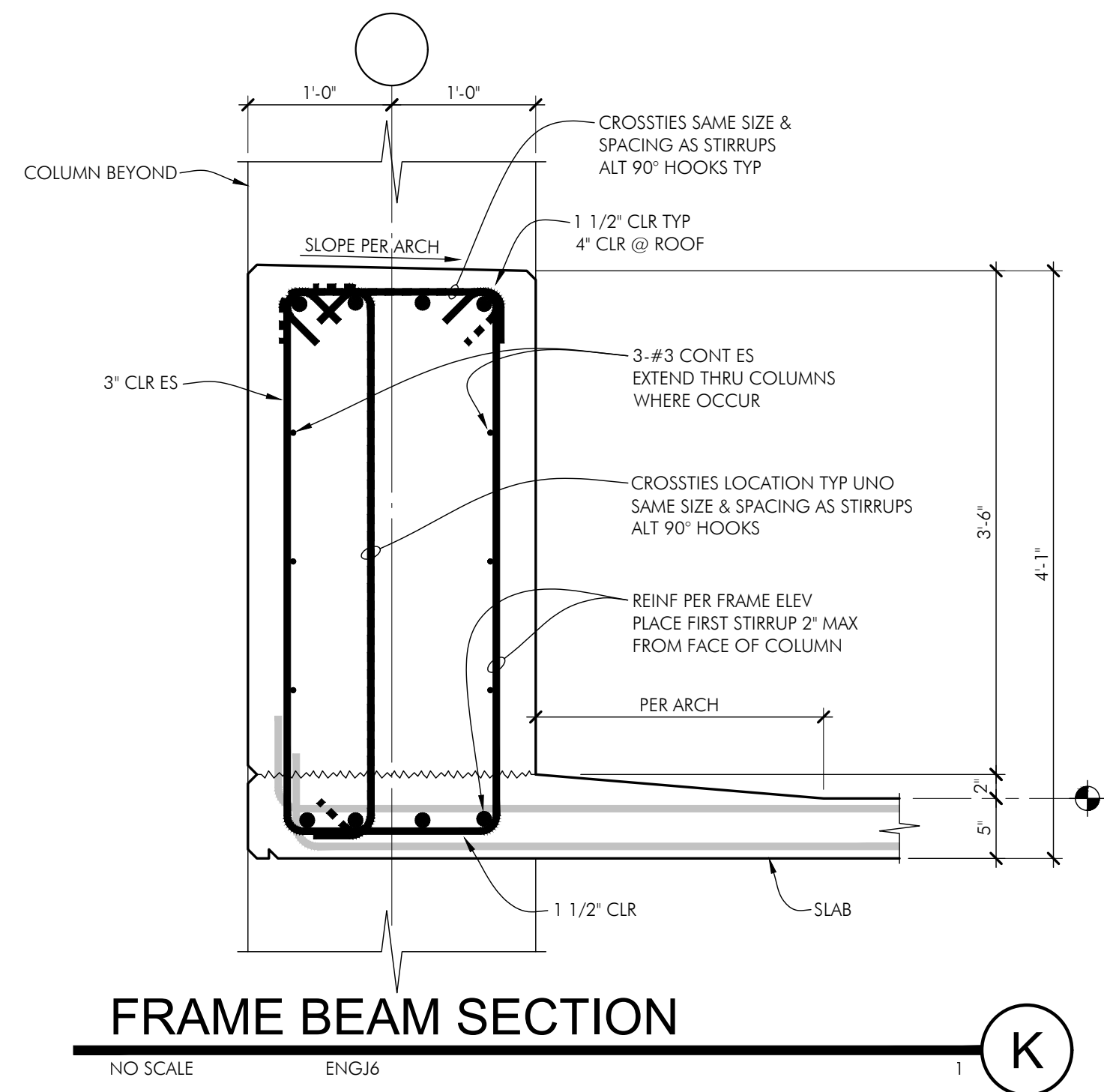
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**FRAME  
ELEVATIONS**

Sheet Number

**S3.40**

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$$1/8^{\circ} = 1'-0''$$

8

3)



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$$\text{---}(\text{M})$$

$$1/8^{\circ} = 1'-0''$$

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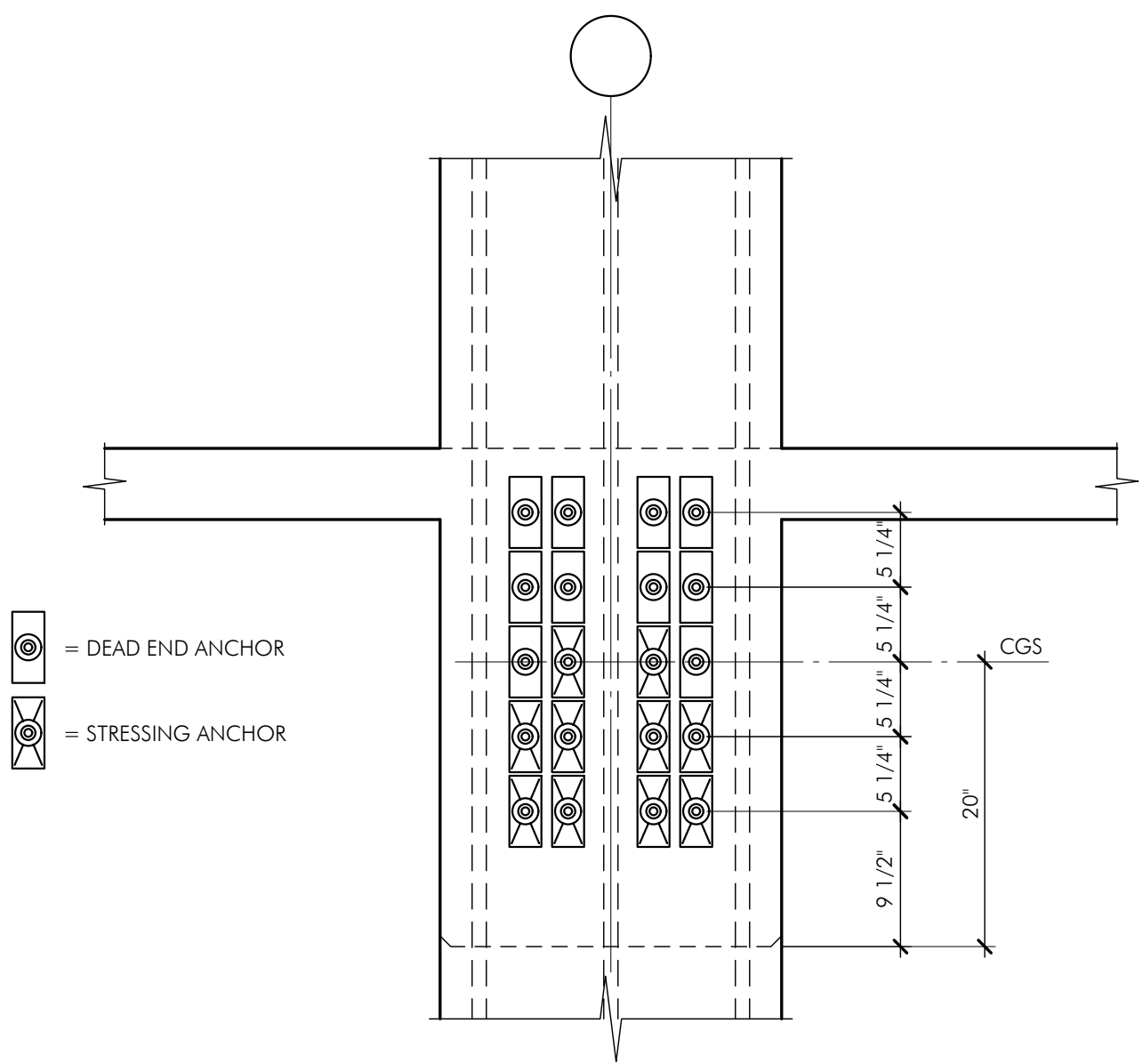
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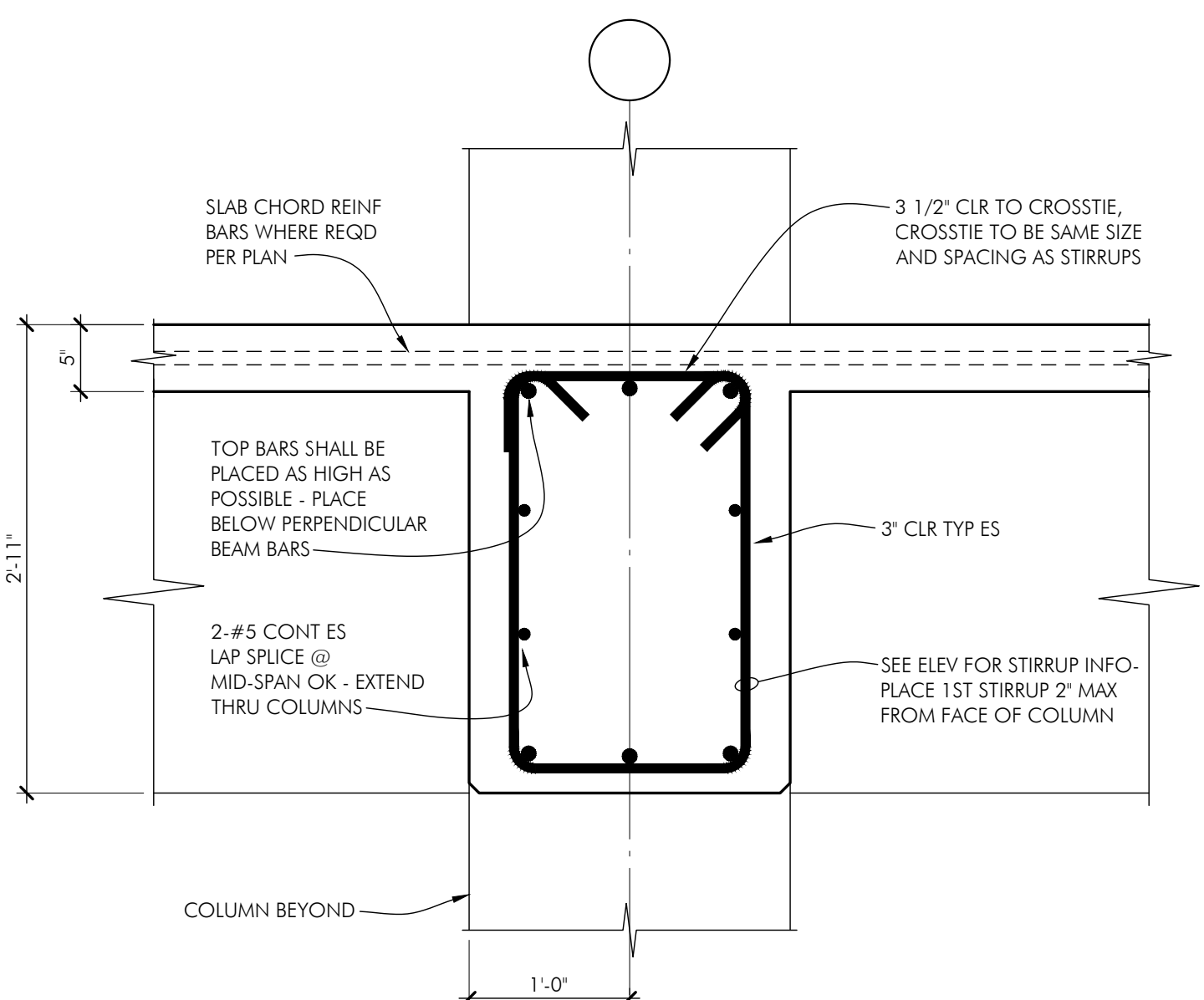
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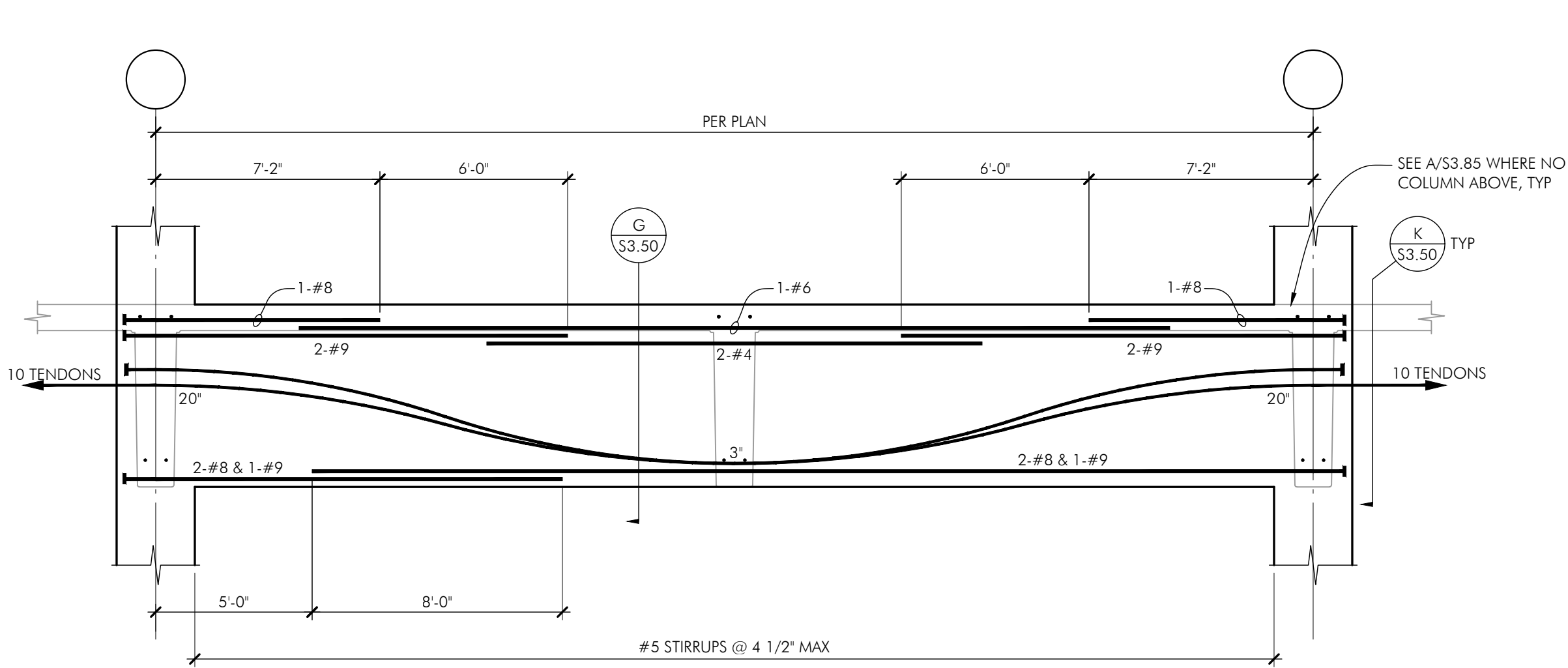
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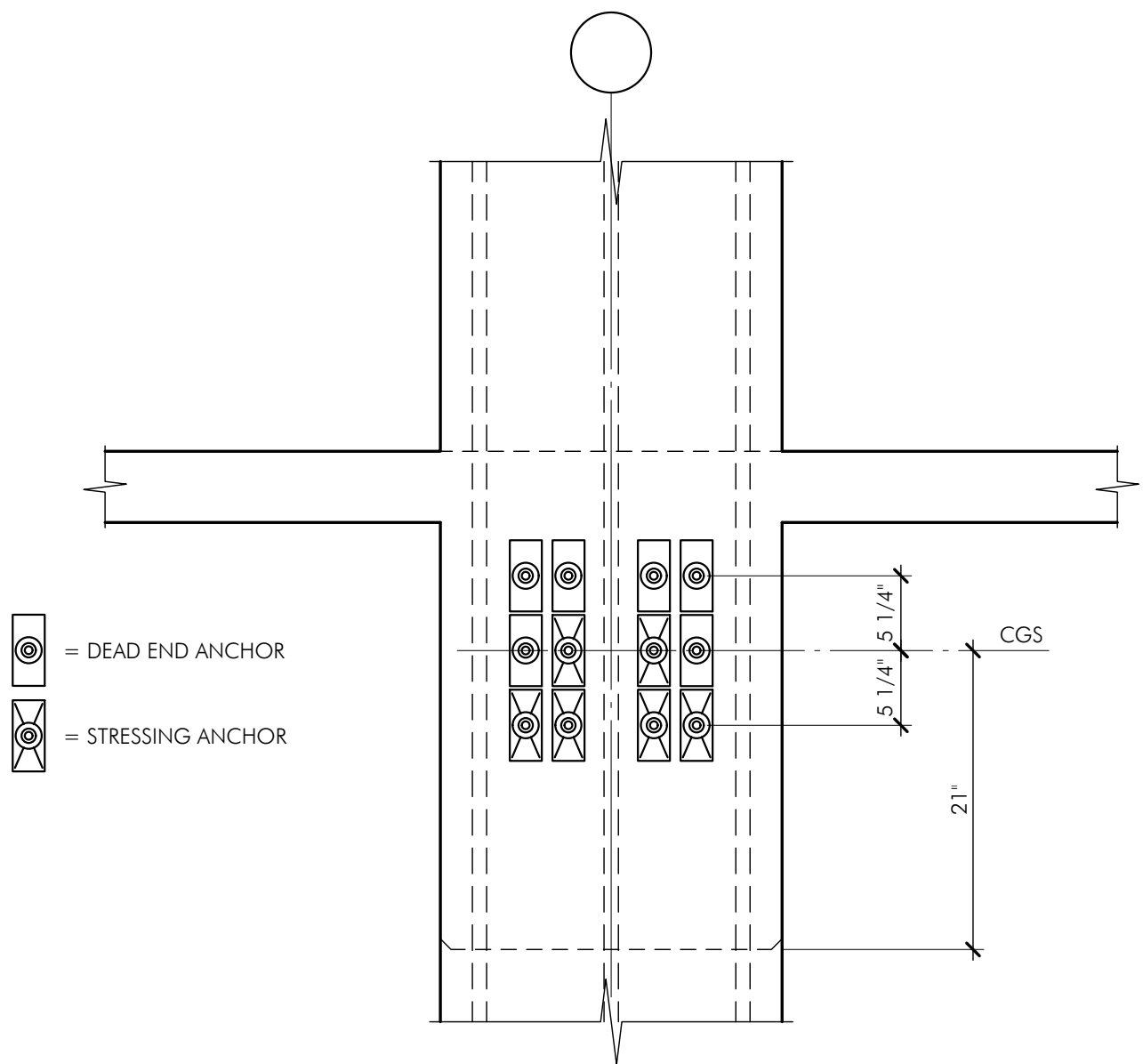
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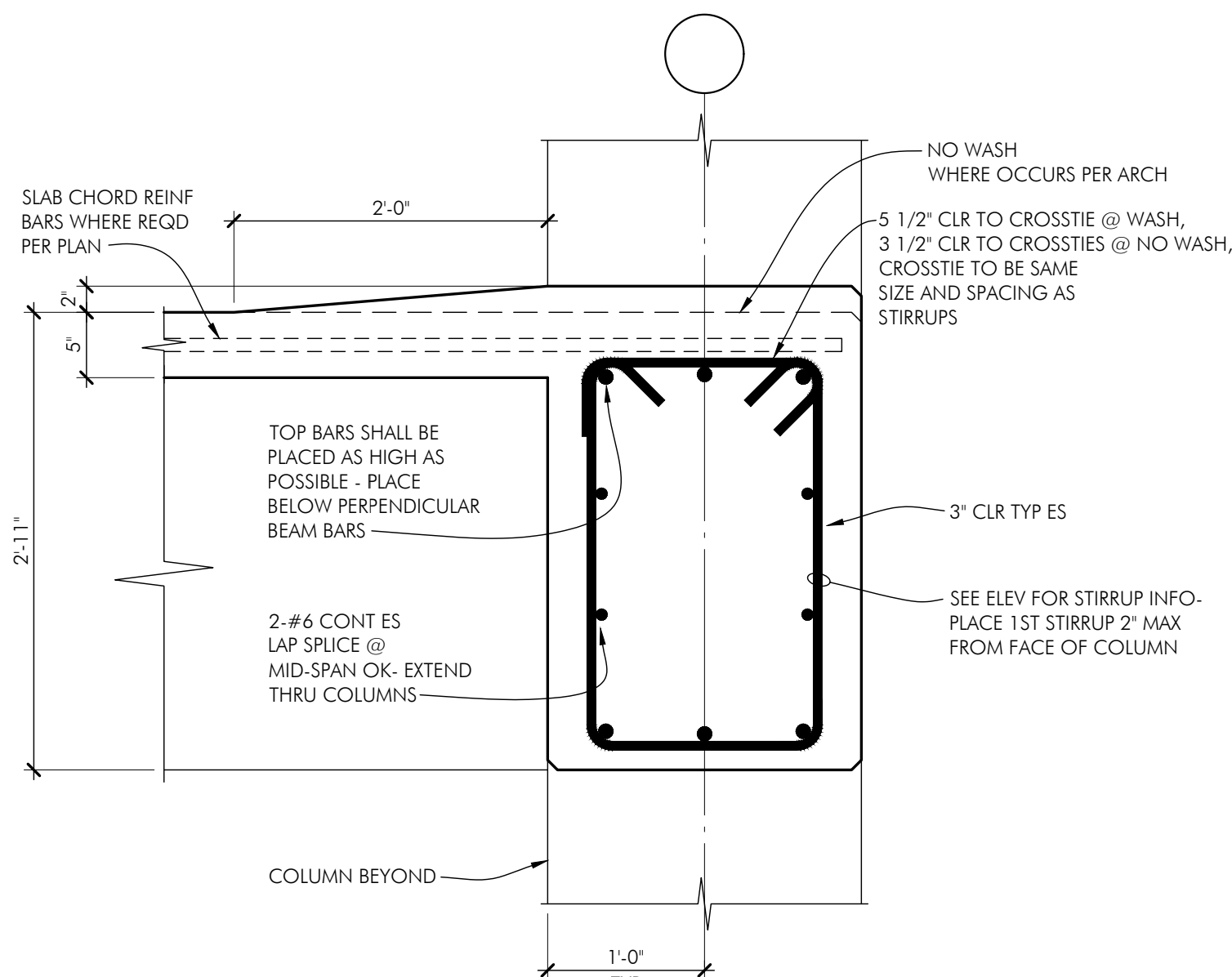
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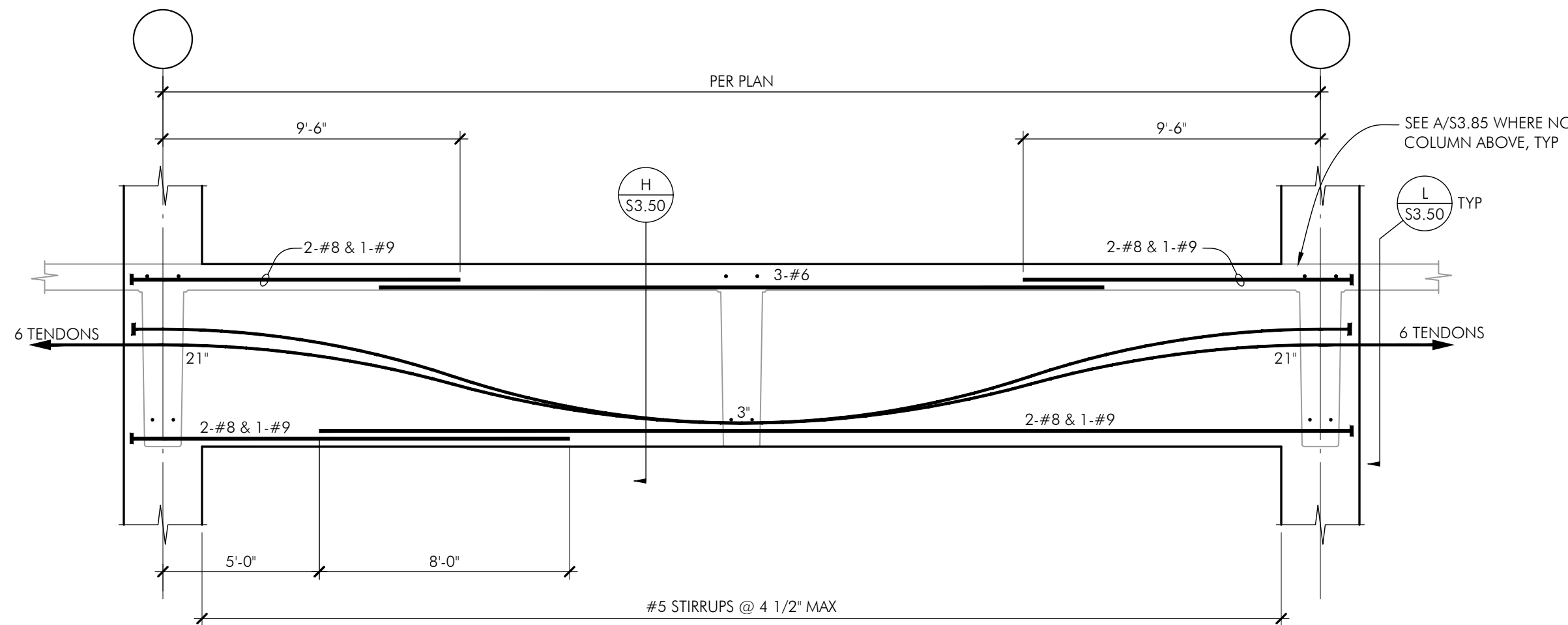
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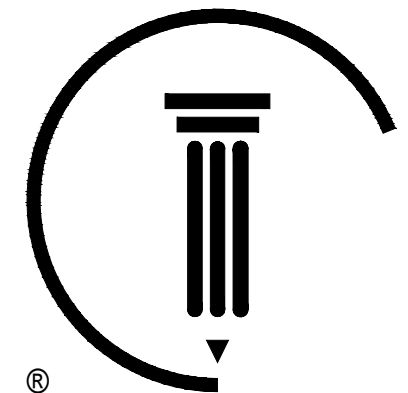
GIRDER SECTION

NO SCALE CPD GD 24x35 E R MOD 1 H



GIRDER ELEVATION

NO SCALE GE37x64bs 1s 18.5b 35d 5st IBC09 MPR 40u JD 14 B



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ELEVATIONS  
& DETAILS

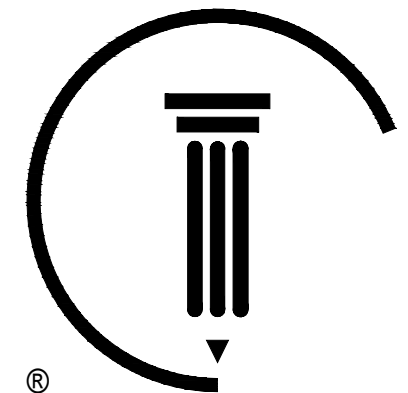
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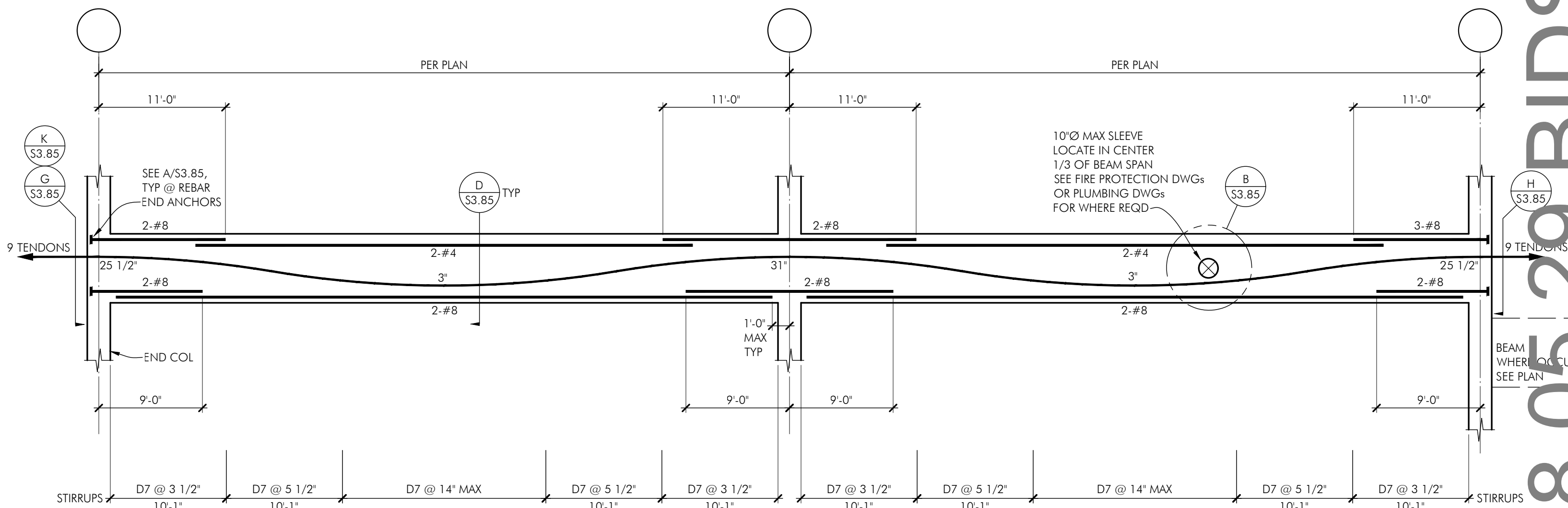
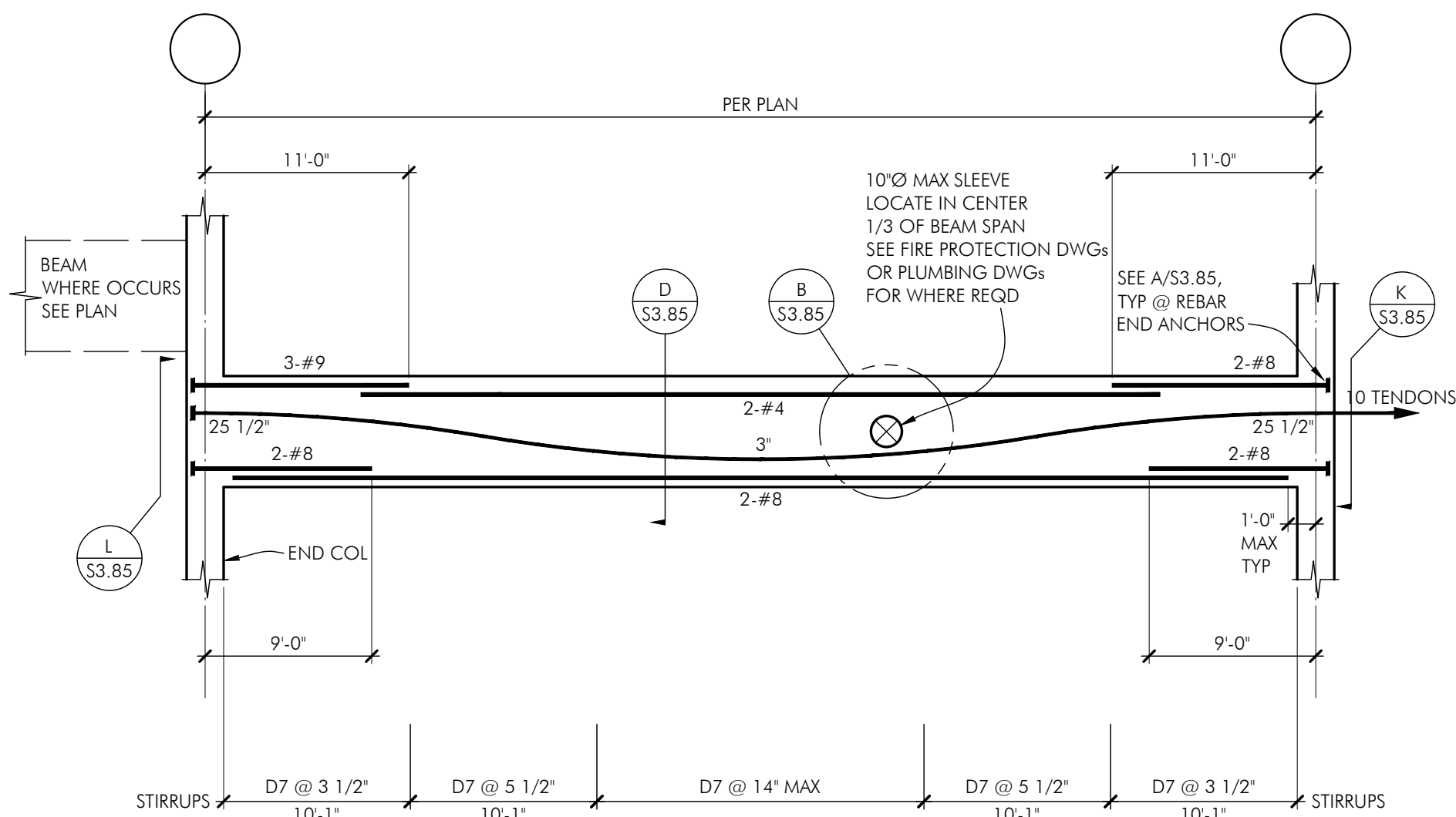
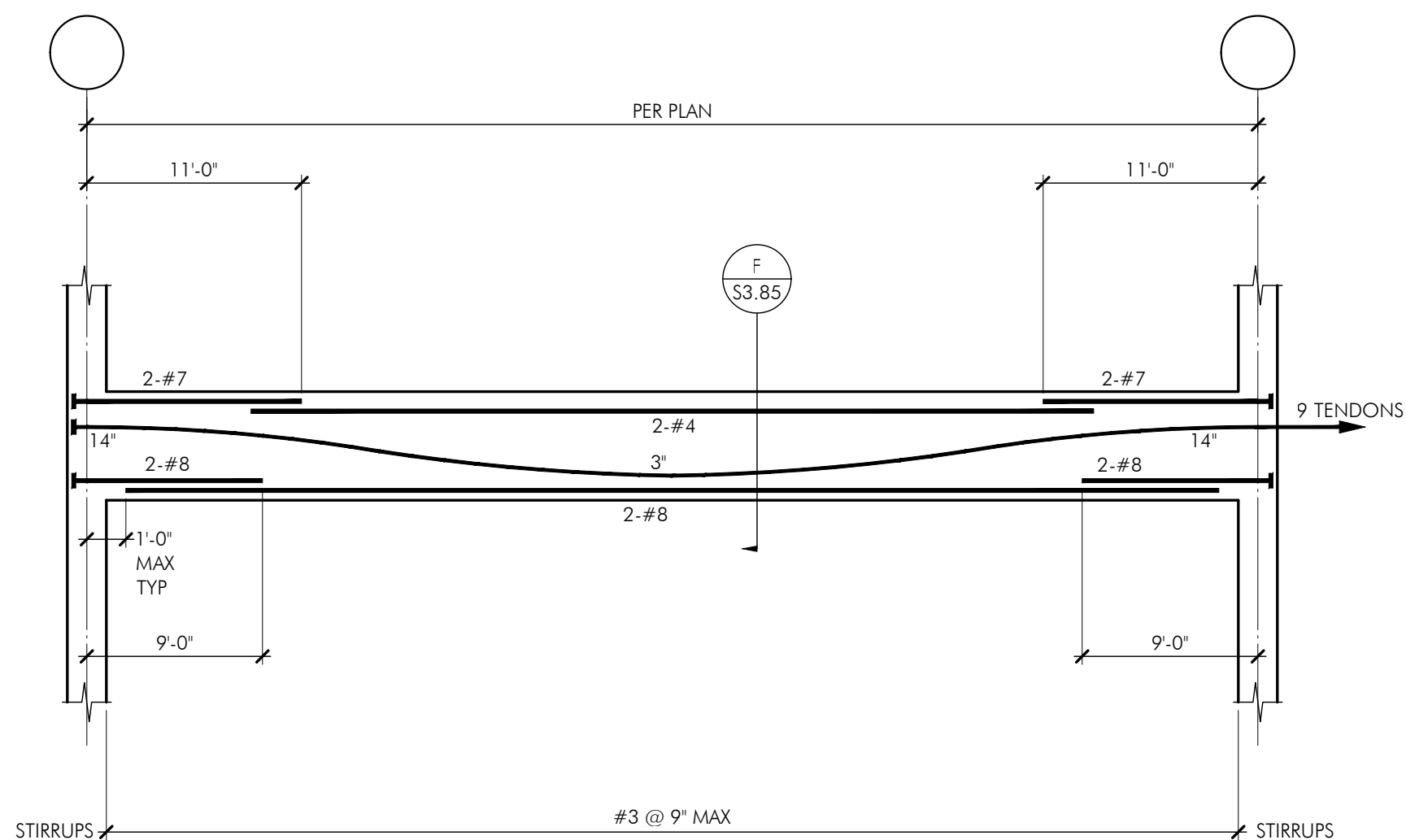
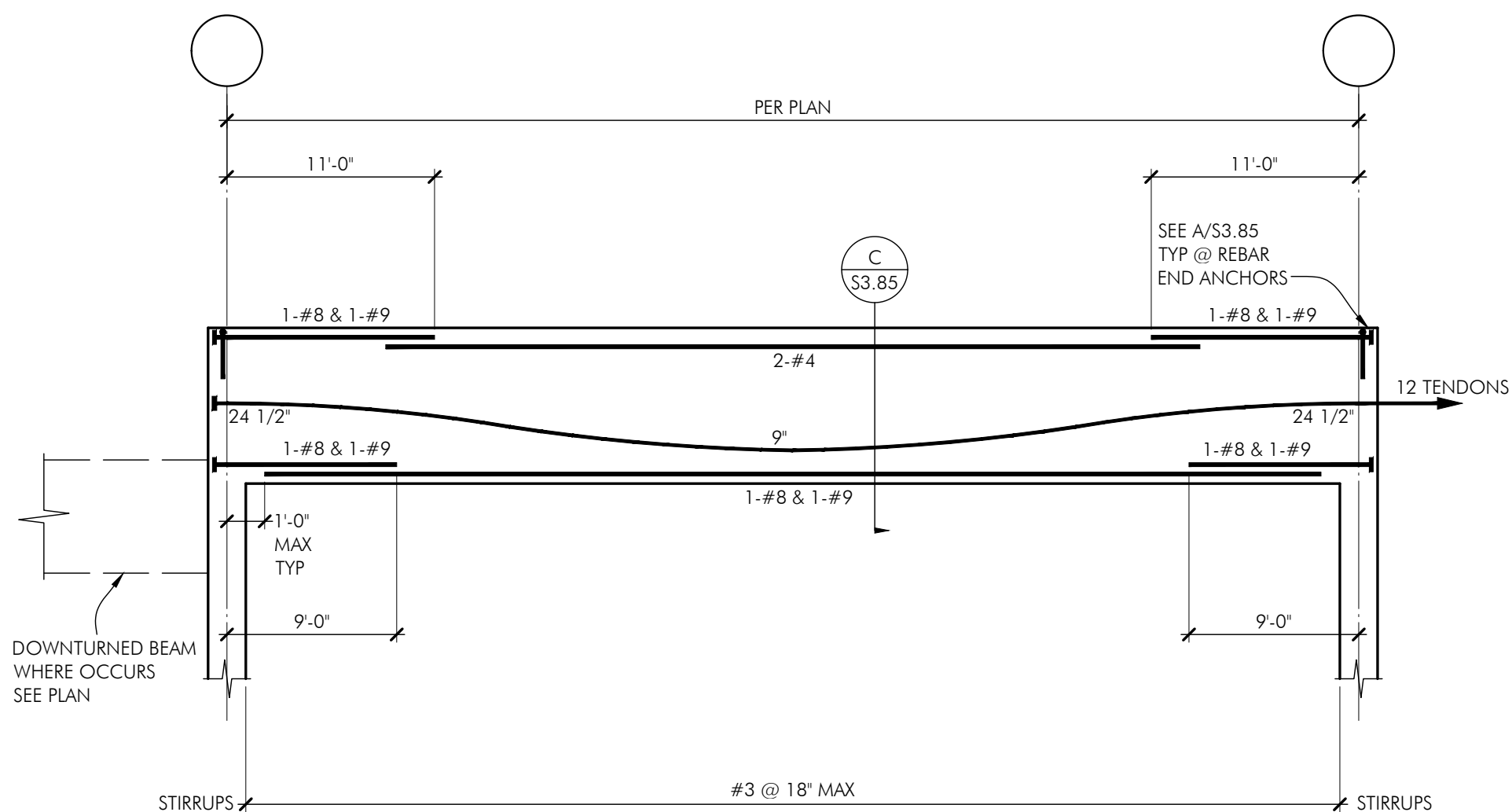
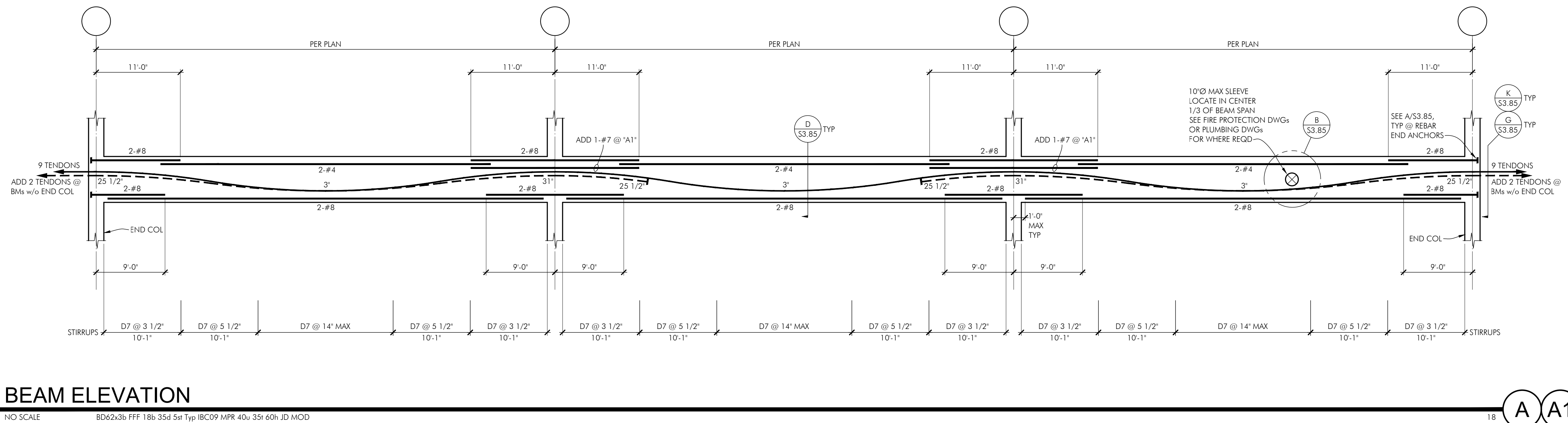
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Sheet Title  
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Sheet Number

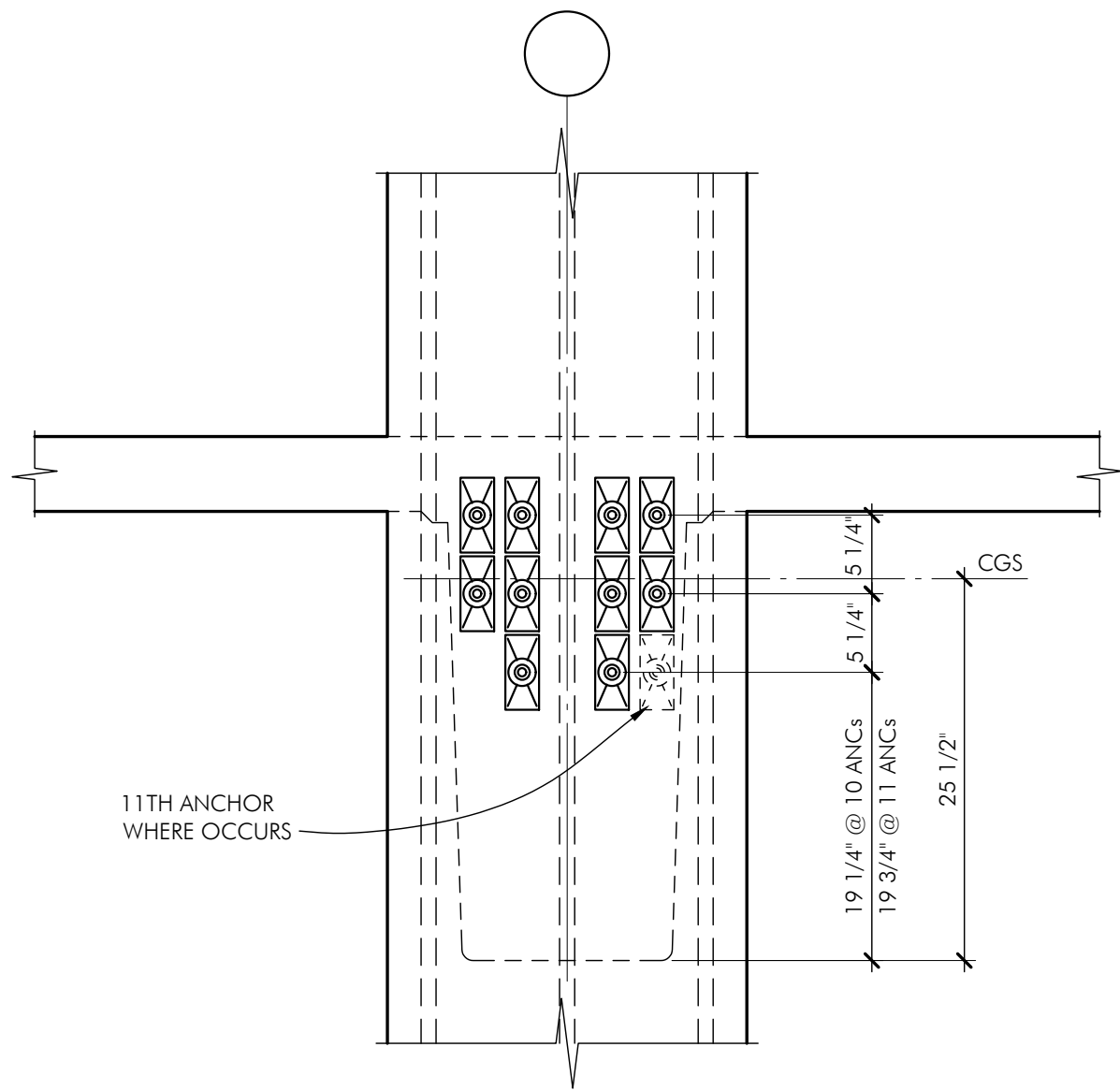
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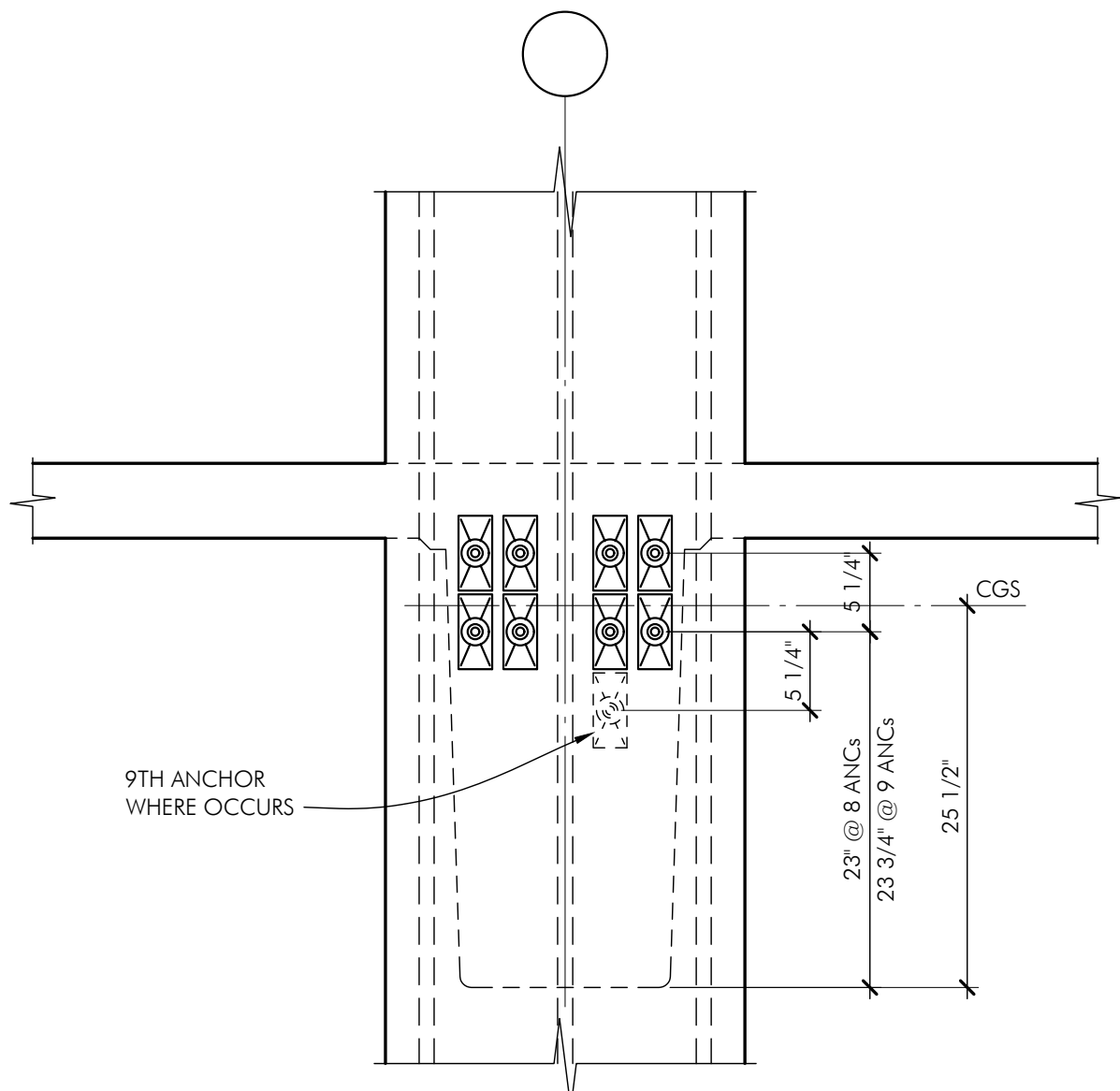


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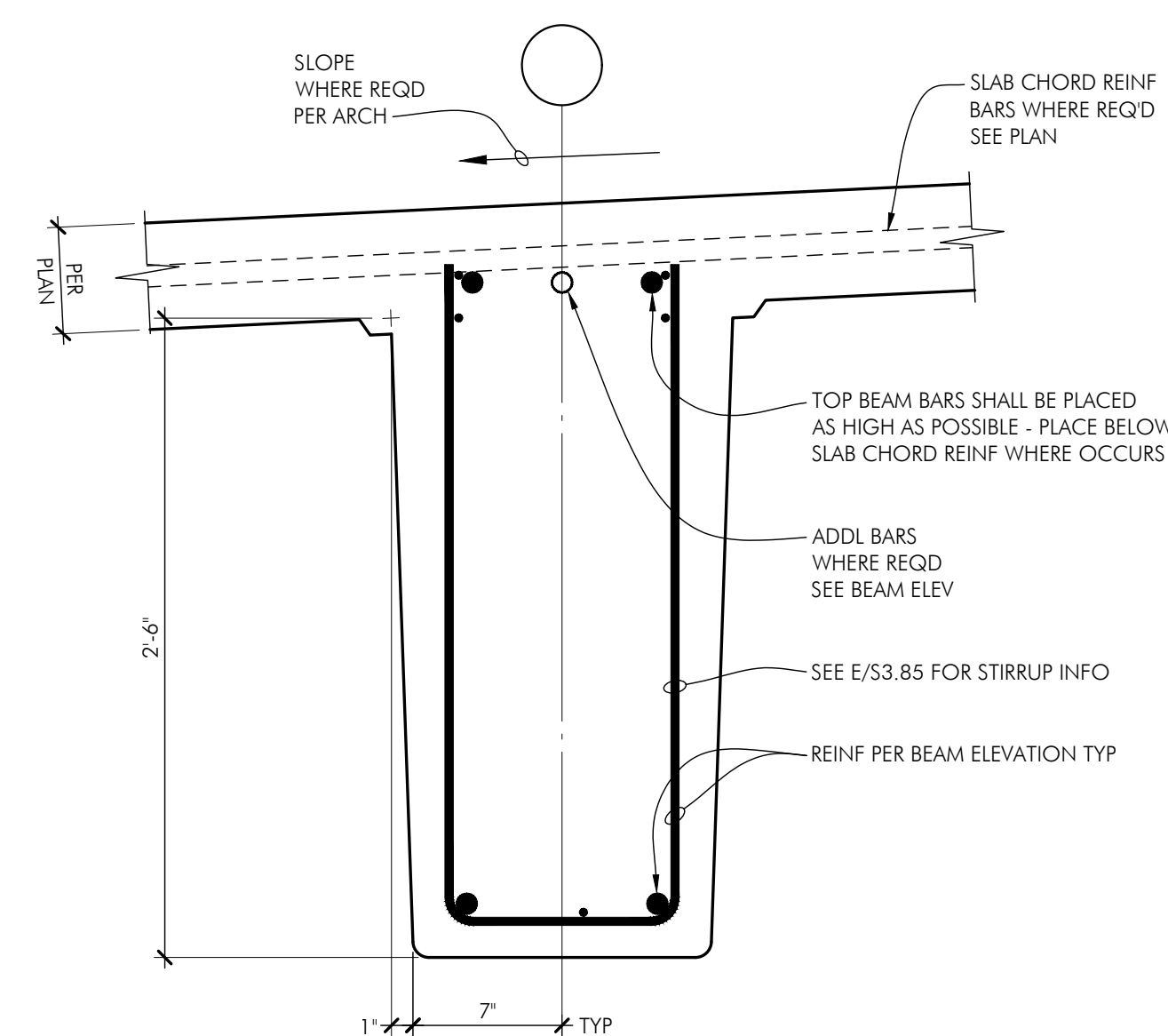




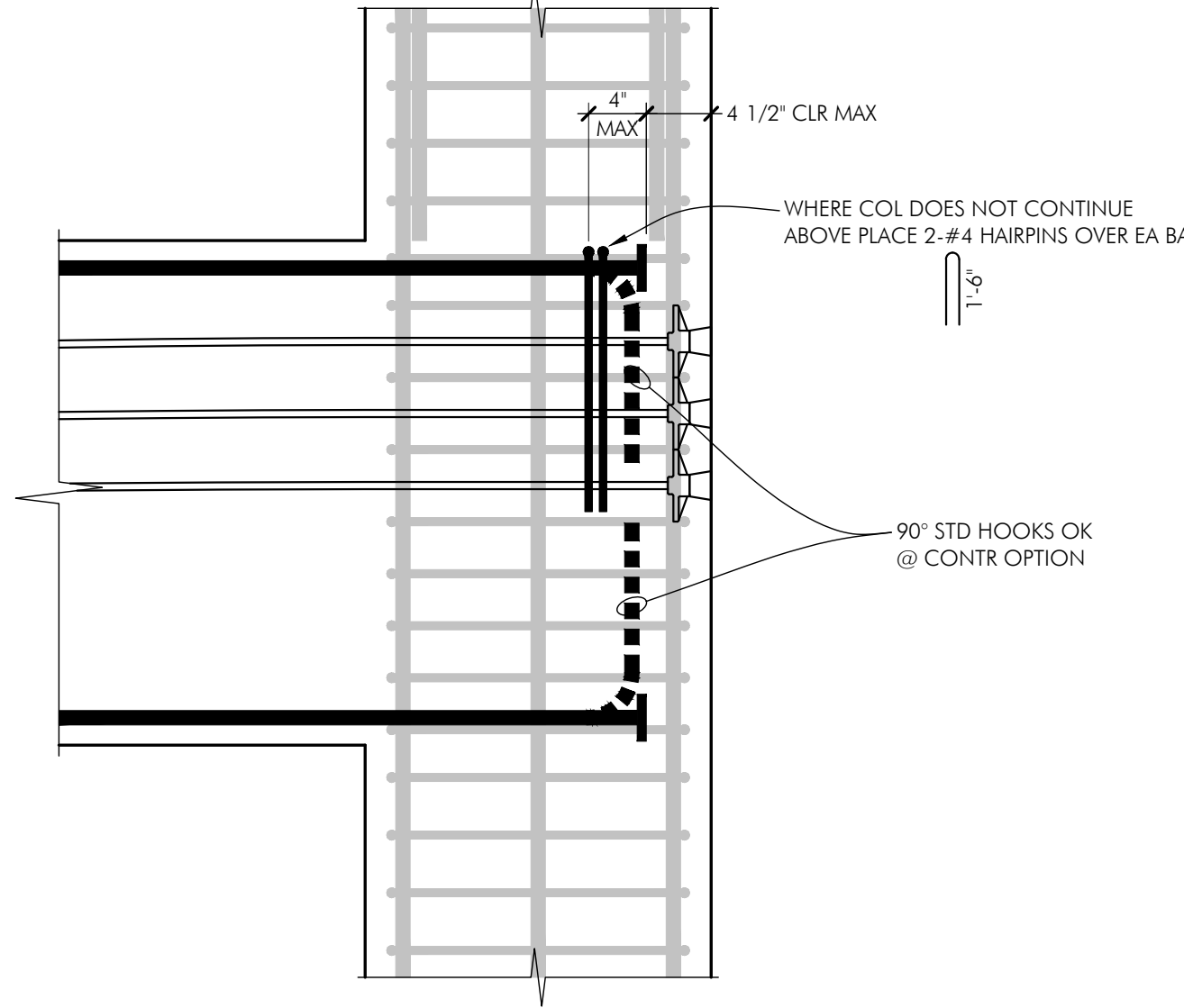
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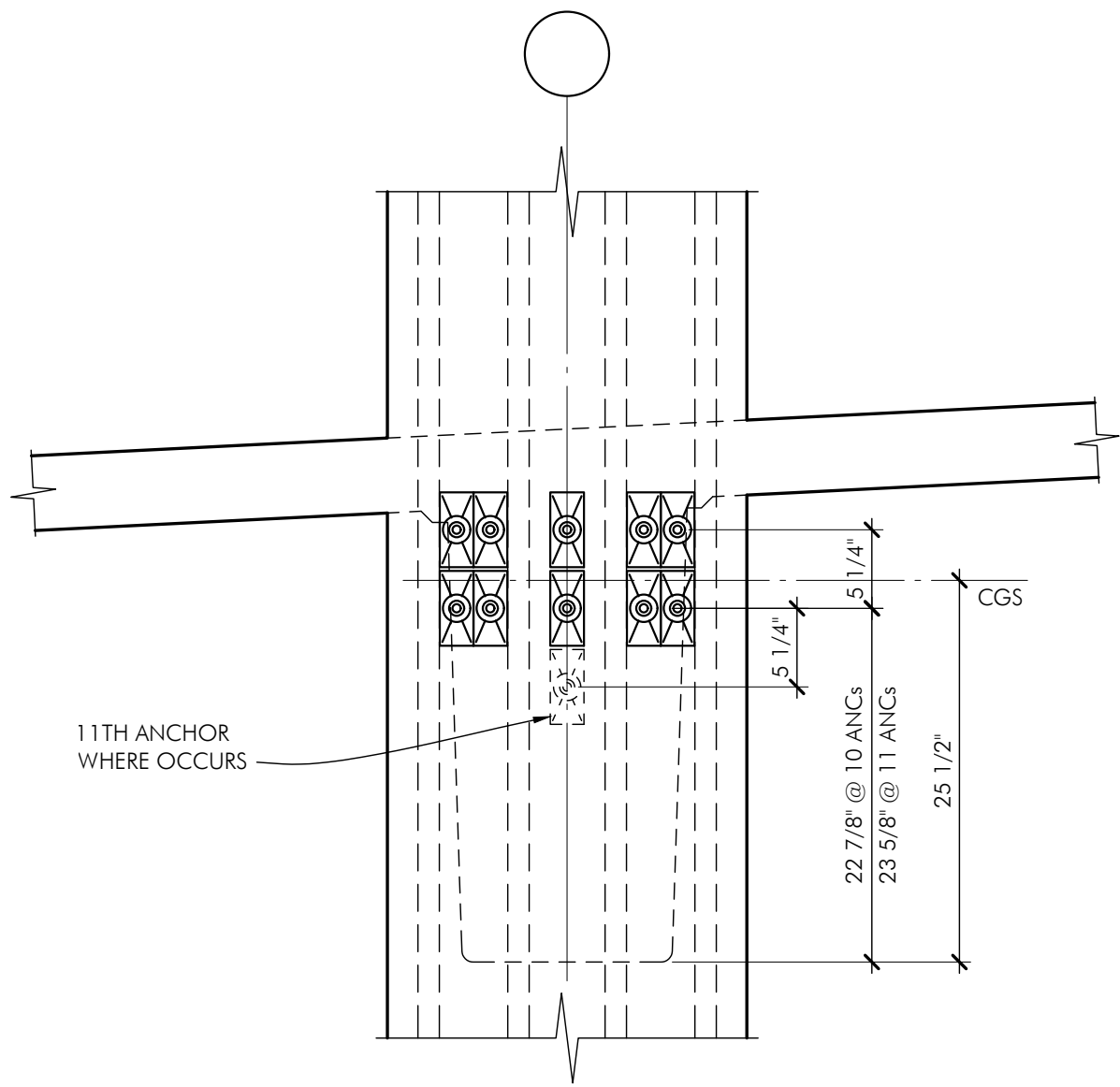
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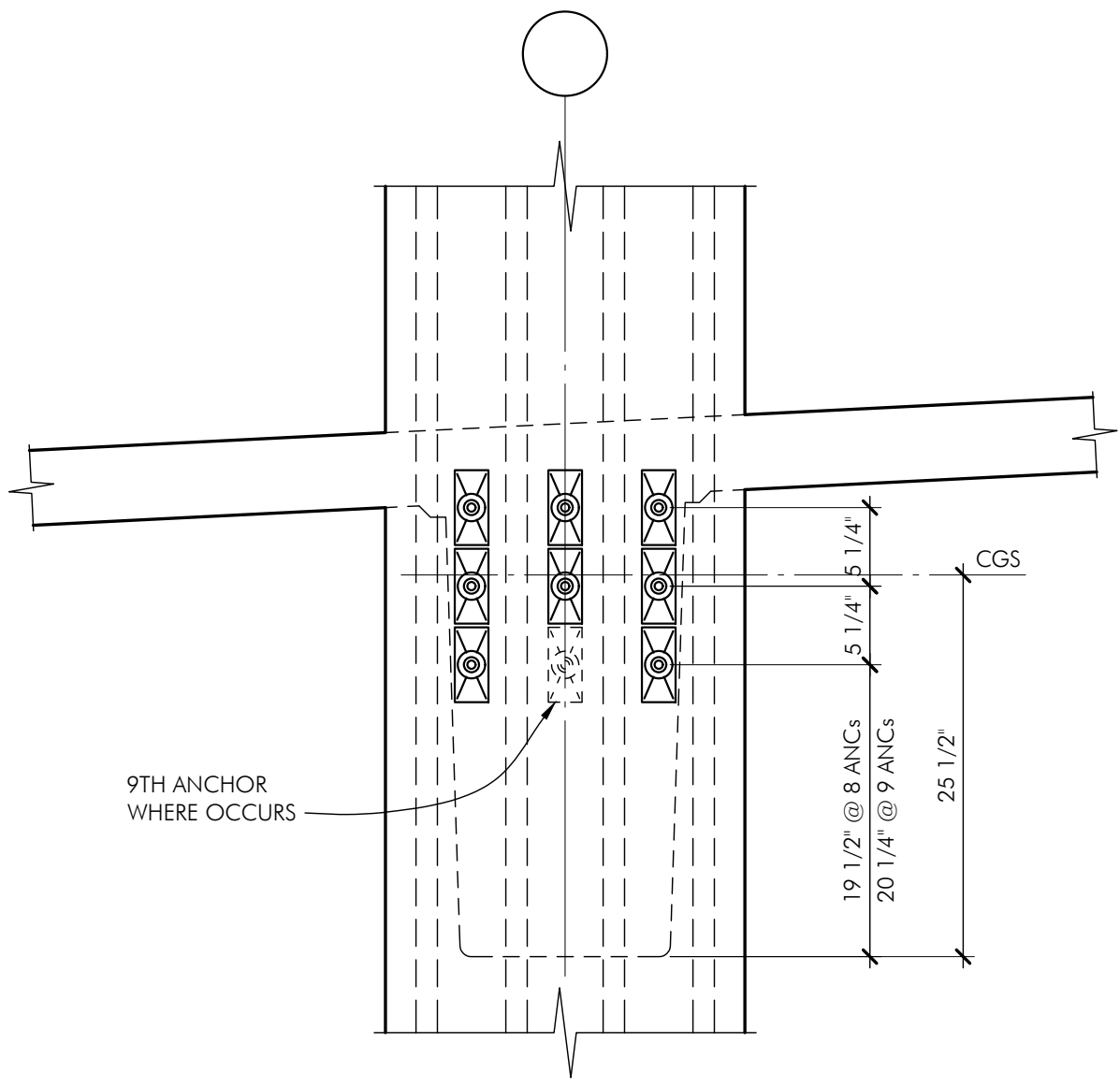
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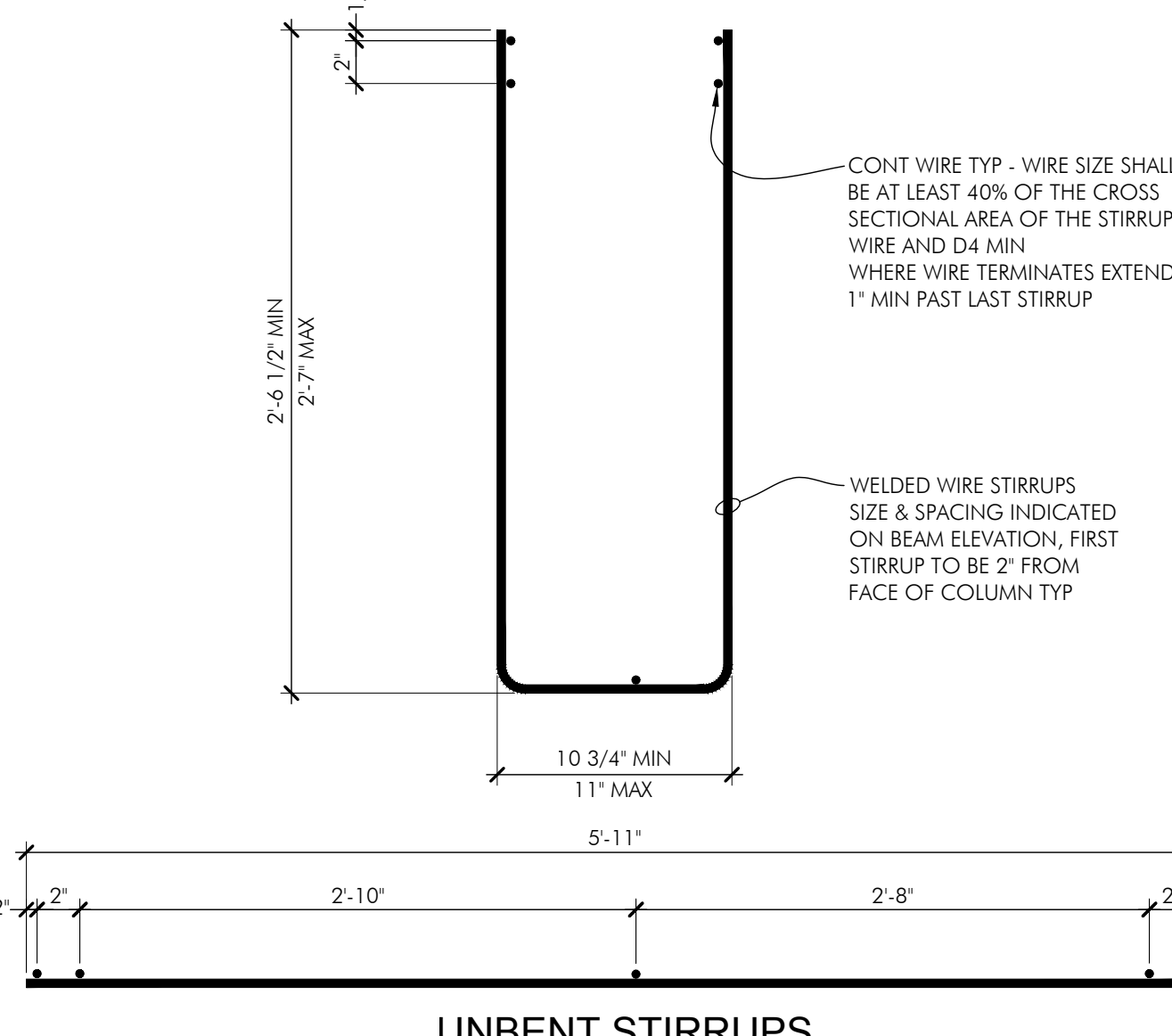
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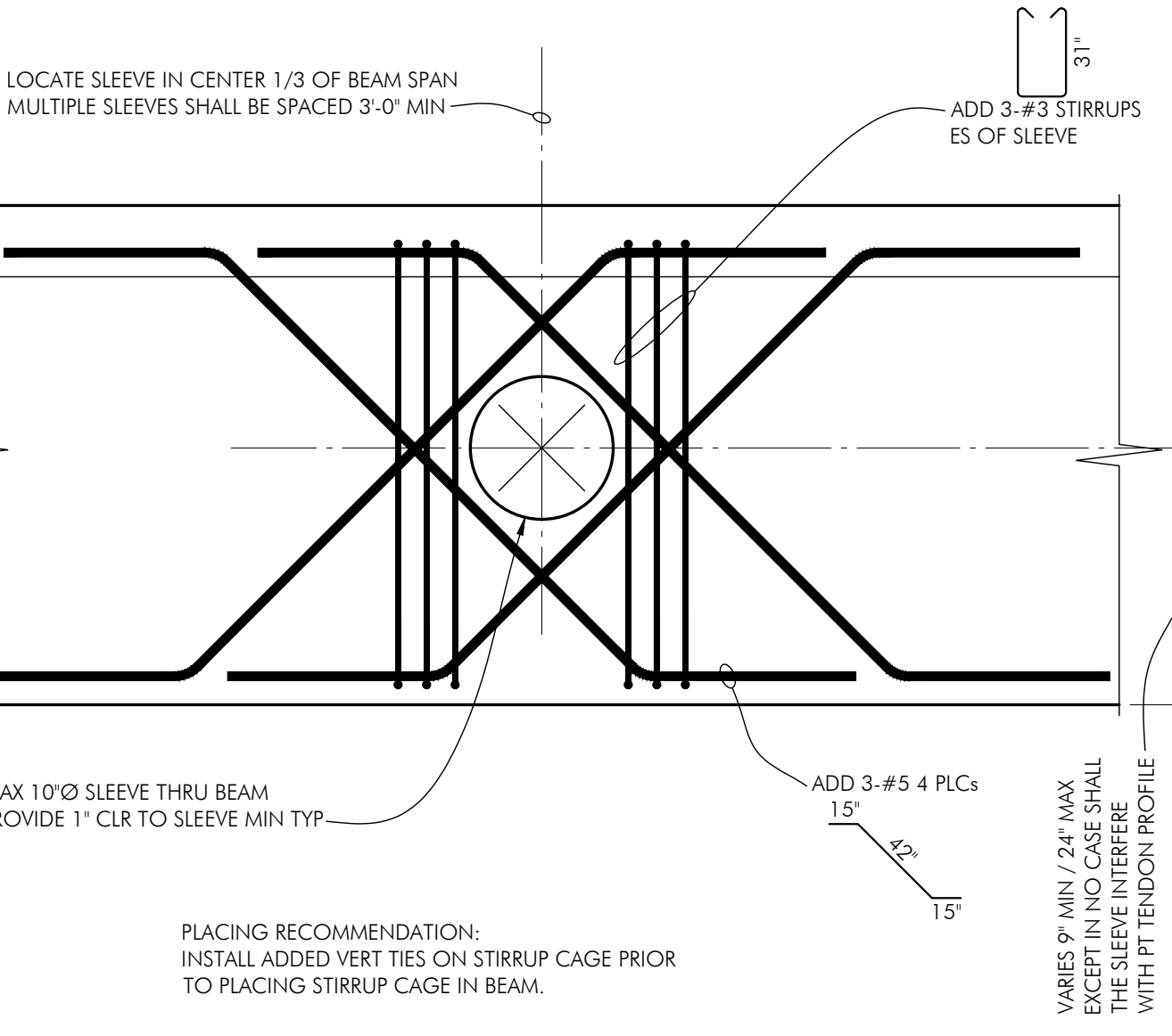
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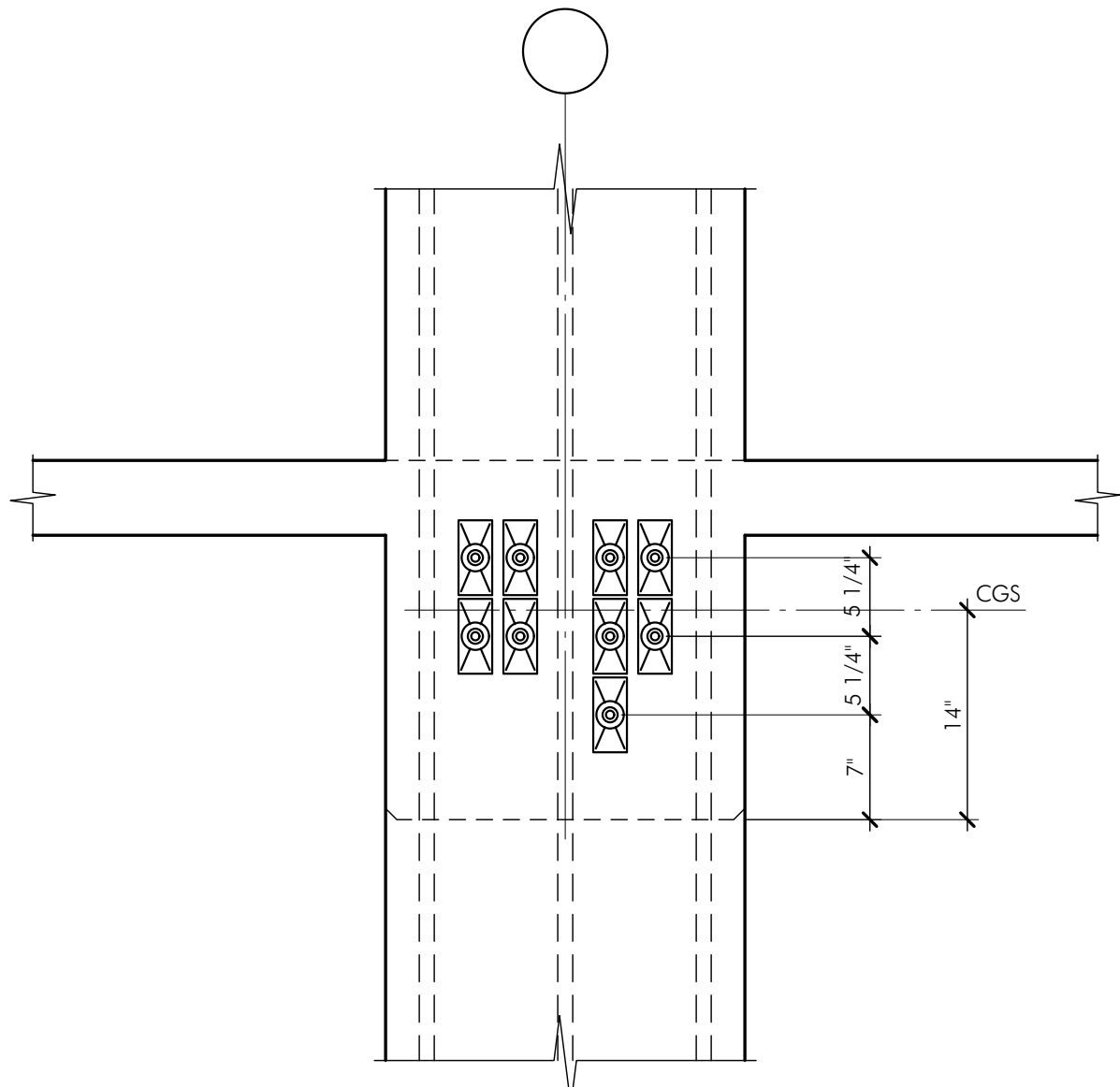
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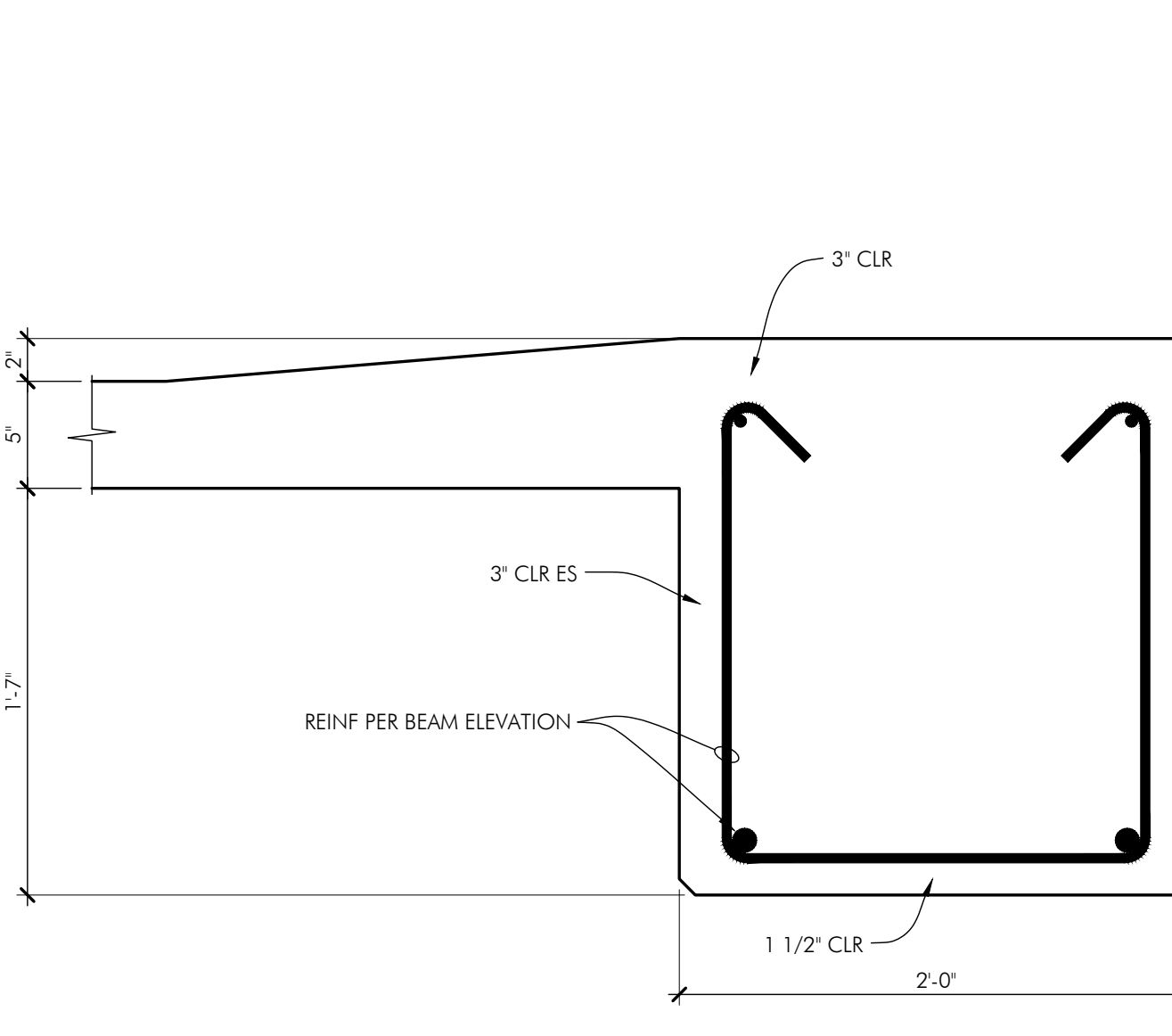
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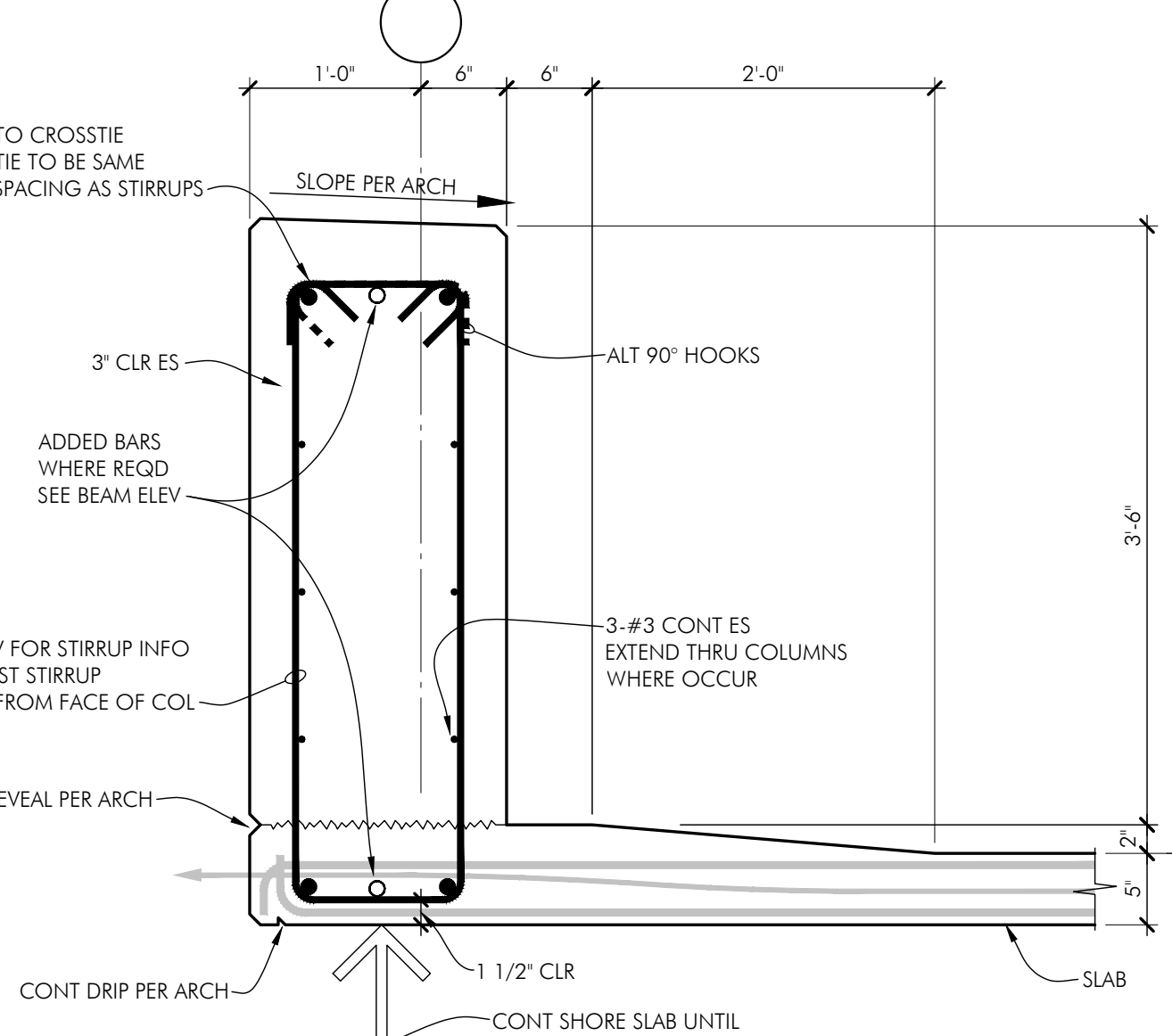
SLEEVE THRU BEAM DETAIL  
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BEAM SECTION  
1 1/2 inch = 1'-0 inch ENG08 112 (F)



BEAM SECTION  
NO SCALE ENG06 1 (C)



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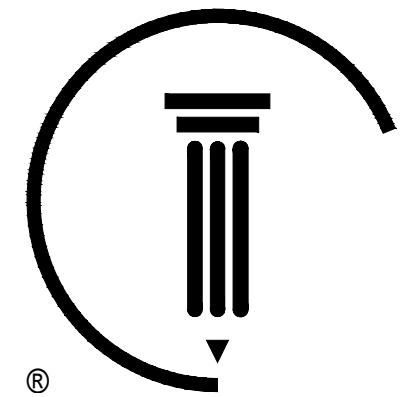
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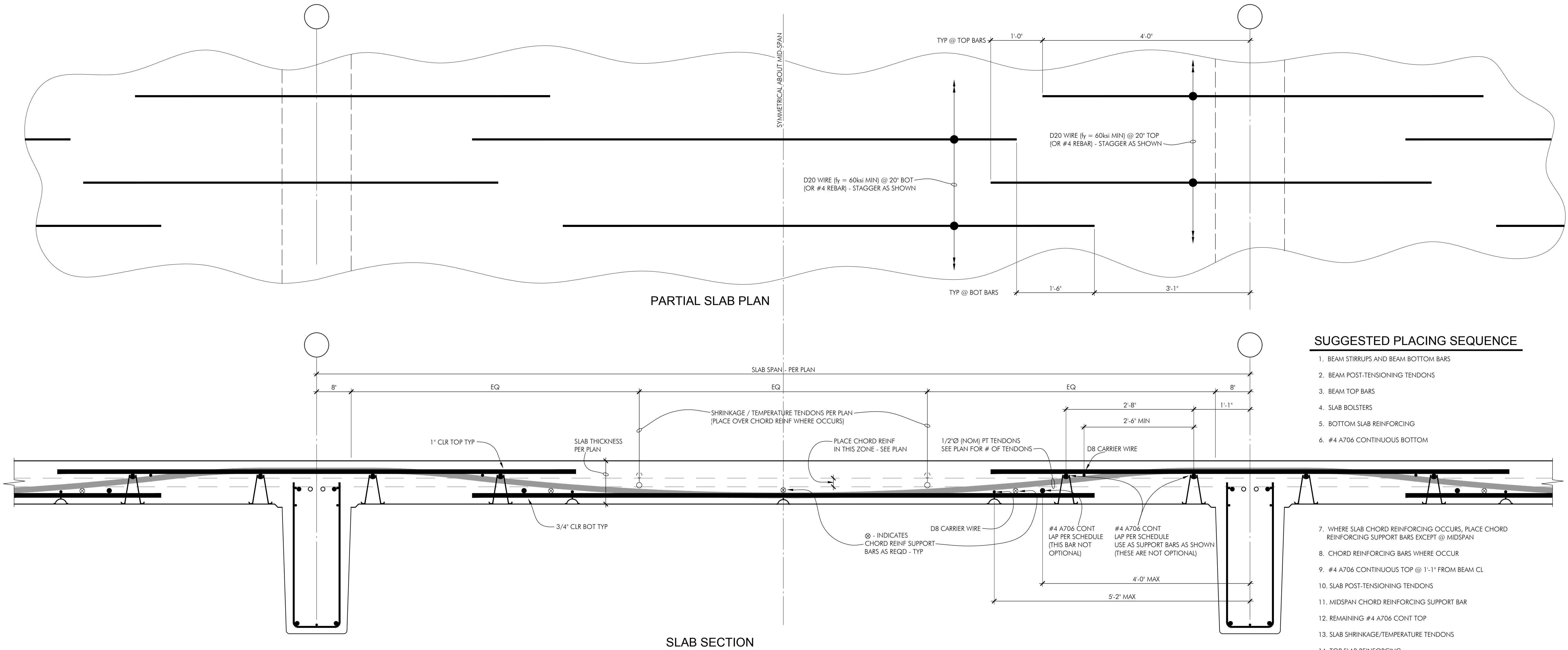
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Sheet Title  
**SLAB  
SECTION**

Sheet Number

**S3.90**

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**TYPICAL SLAB SECTION**

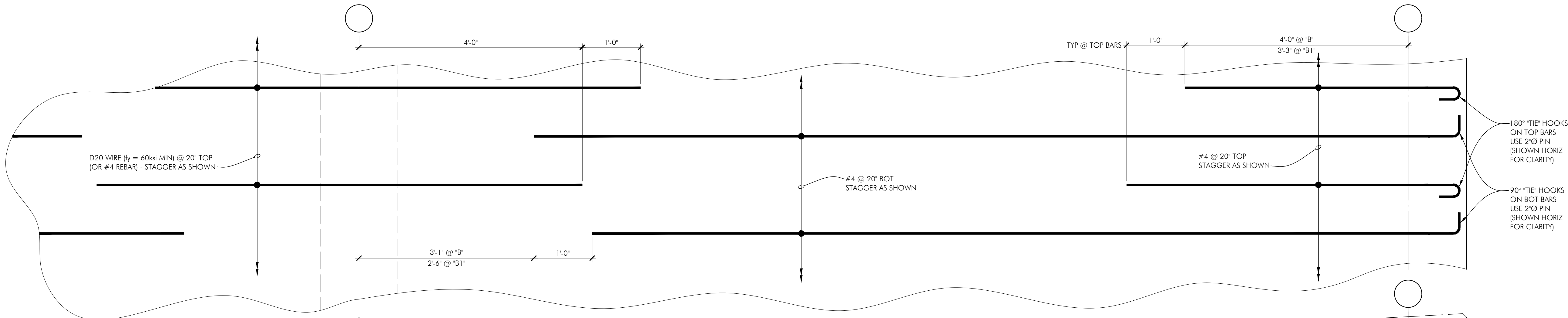
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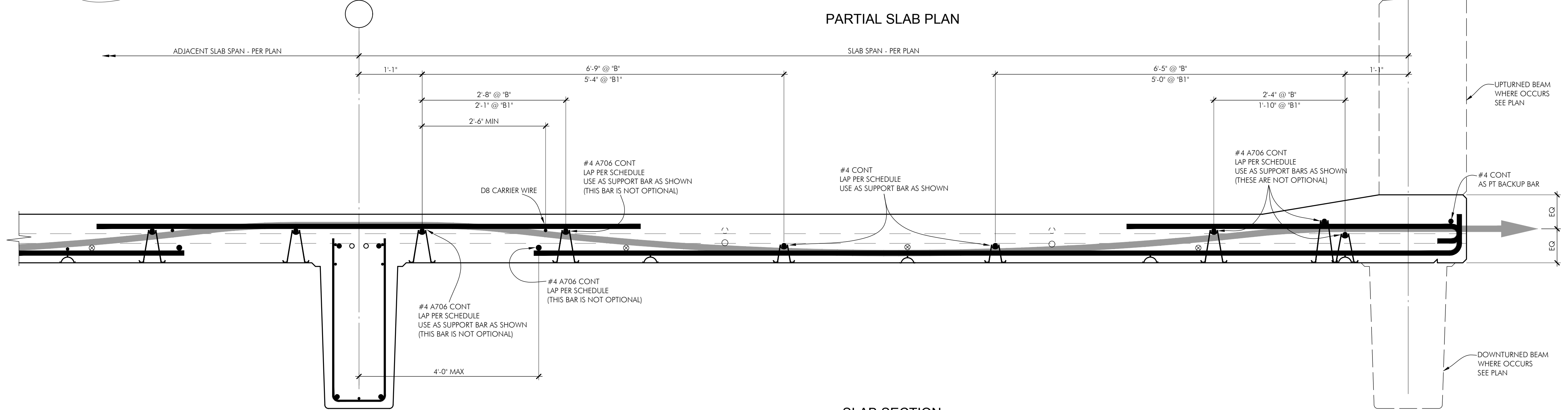
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PARTIAL SLAB PLAN



SLAB SECTION

EXCEPT AS SHOWN, SAME AS TYP SLAB SECTION B/S3.90

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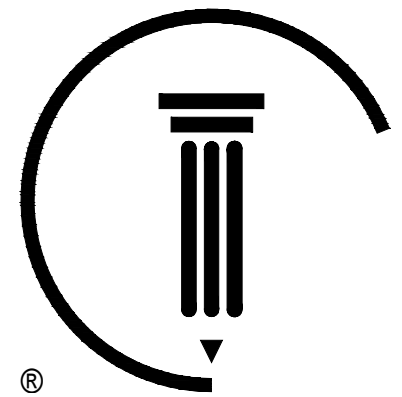
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B

B1

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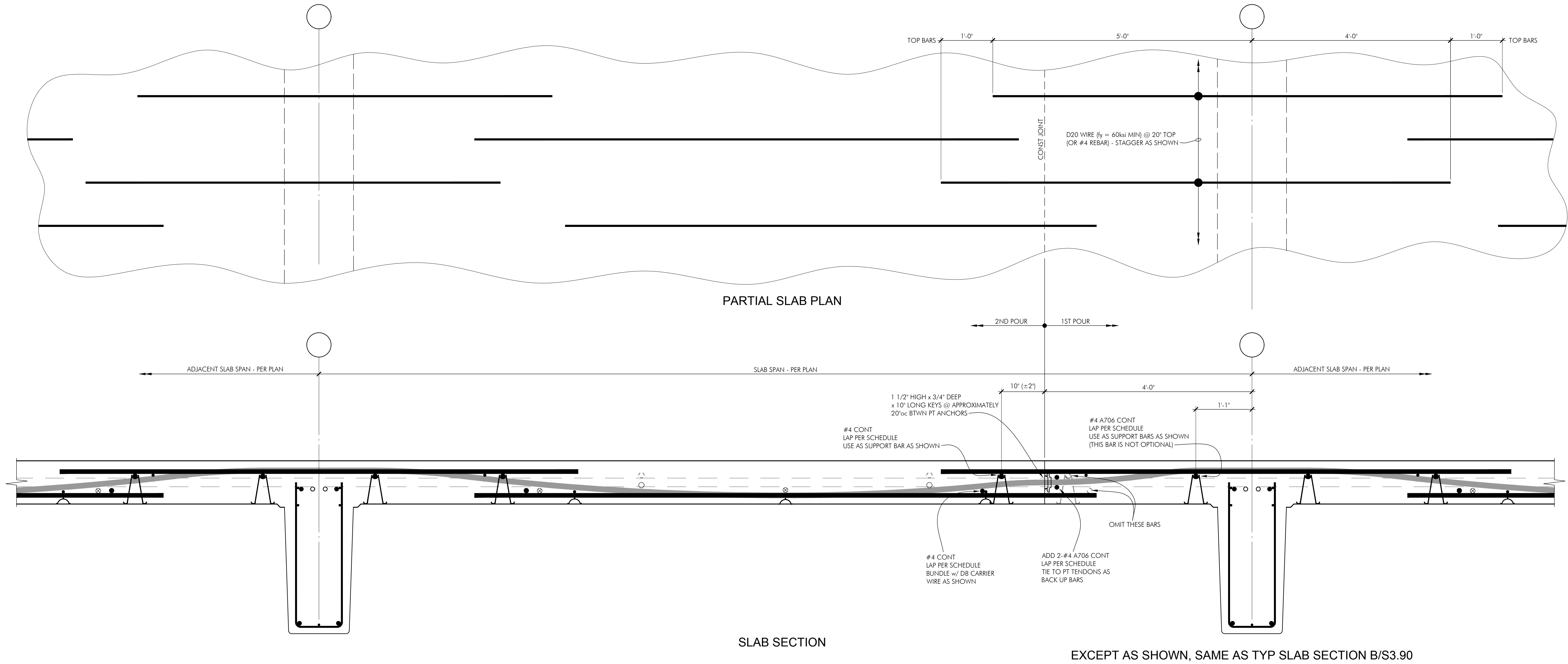
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Sheet Title  
SLAB  
SECTION

Sheet Number

S3.91



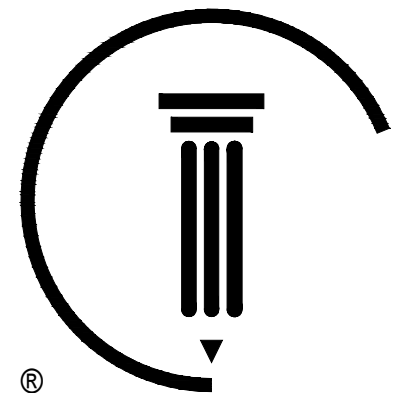


SLAB SECTION @ CONSTRUCTION JOINT

NO SCALE S115-19 CJ 5th STD IBC06 40u

1 2

B



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MAIN ENTRY**

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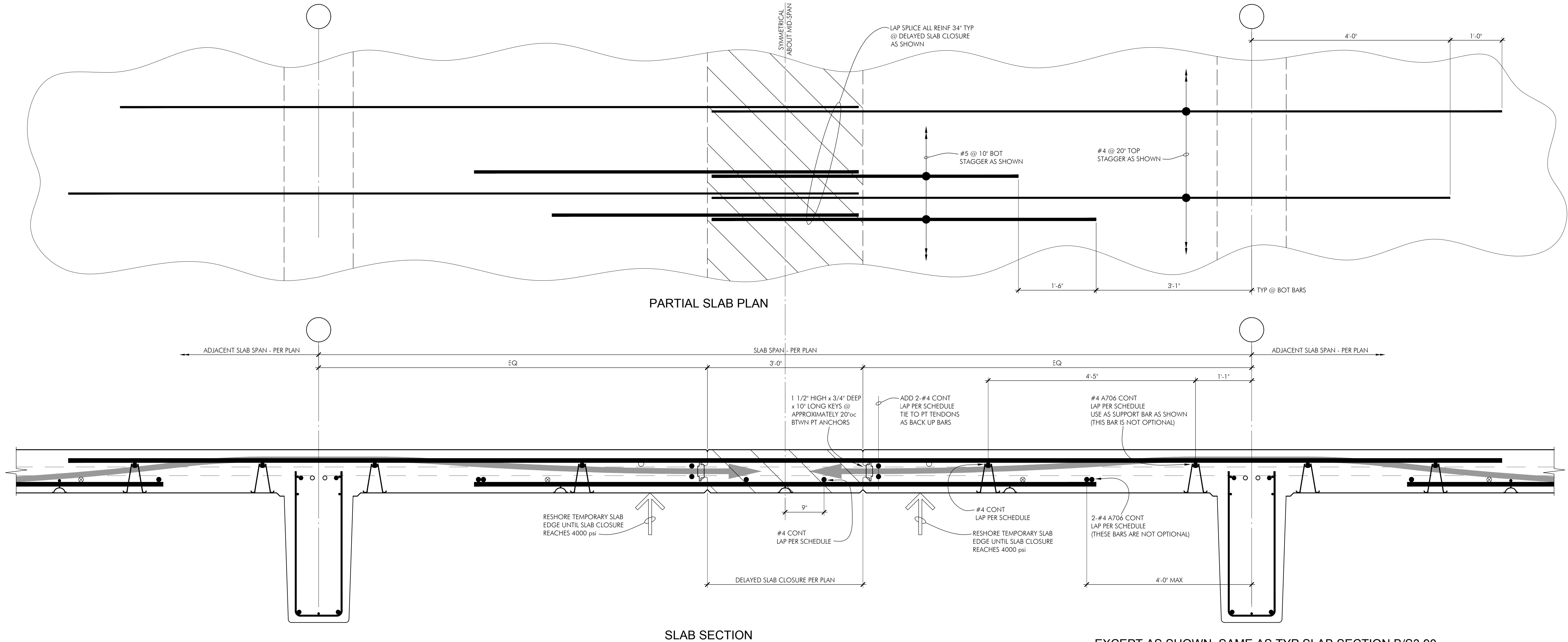
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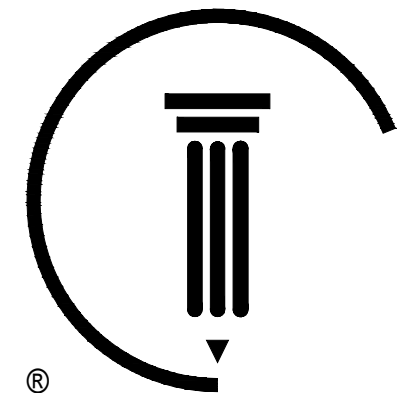
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NO SCALE ENG03

1 2

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EXCEPT AS SHOWN, SAME AS TYP SLAB SECTION B/S3.90



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SECTION**

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REGISTERED PROFESSIONAL ENGINEER  
RORY ROTTSCHALK  
No. 2563  
STATE OF CALIFORNIA  
May 23 2018

Sheet Title

ELEVATOR TOWER  
ALL ELEVATION  
& DETAILS

## S4.01

7021 1721 S40

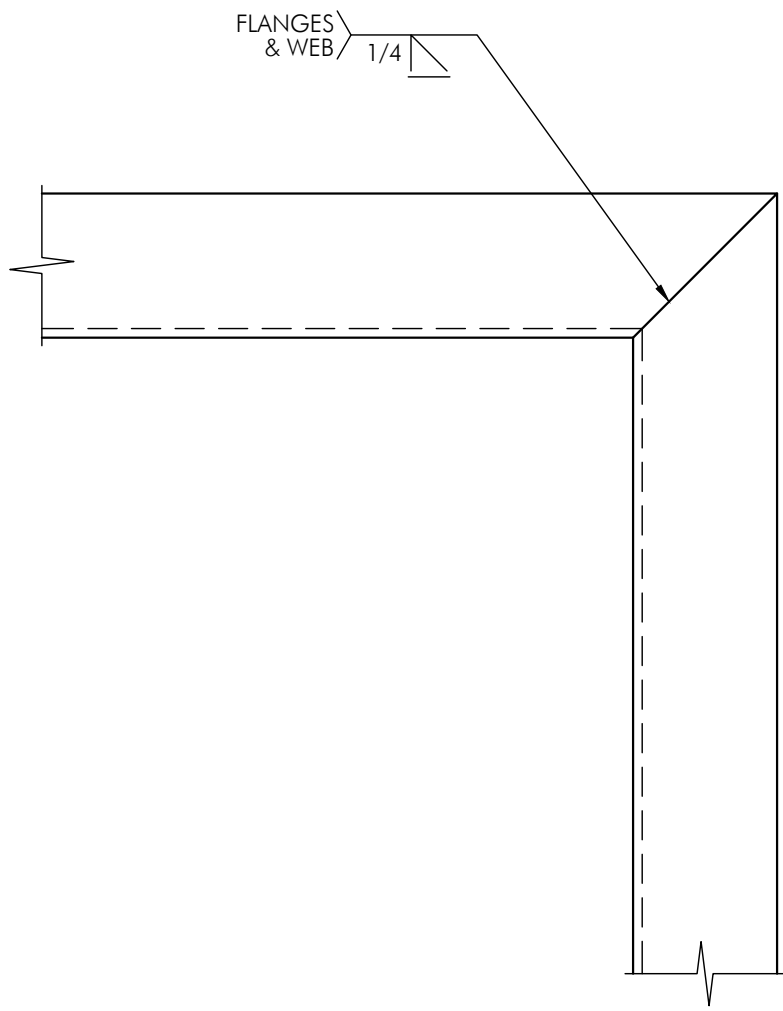
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SEE F/S4.01  
FOR ADDL INFO

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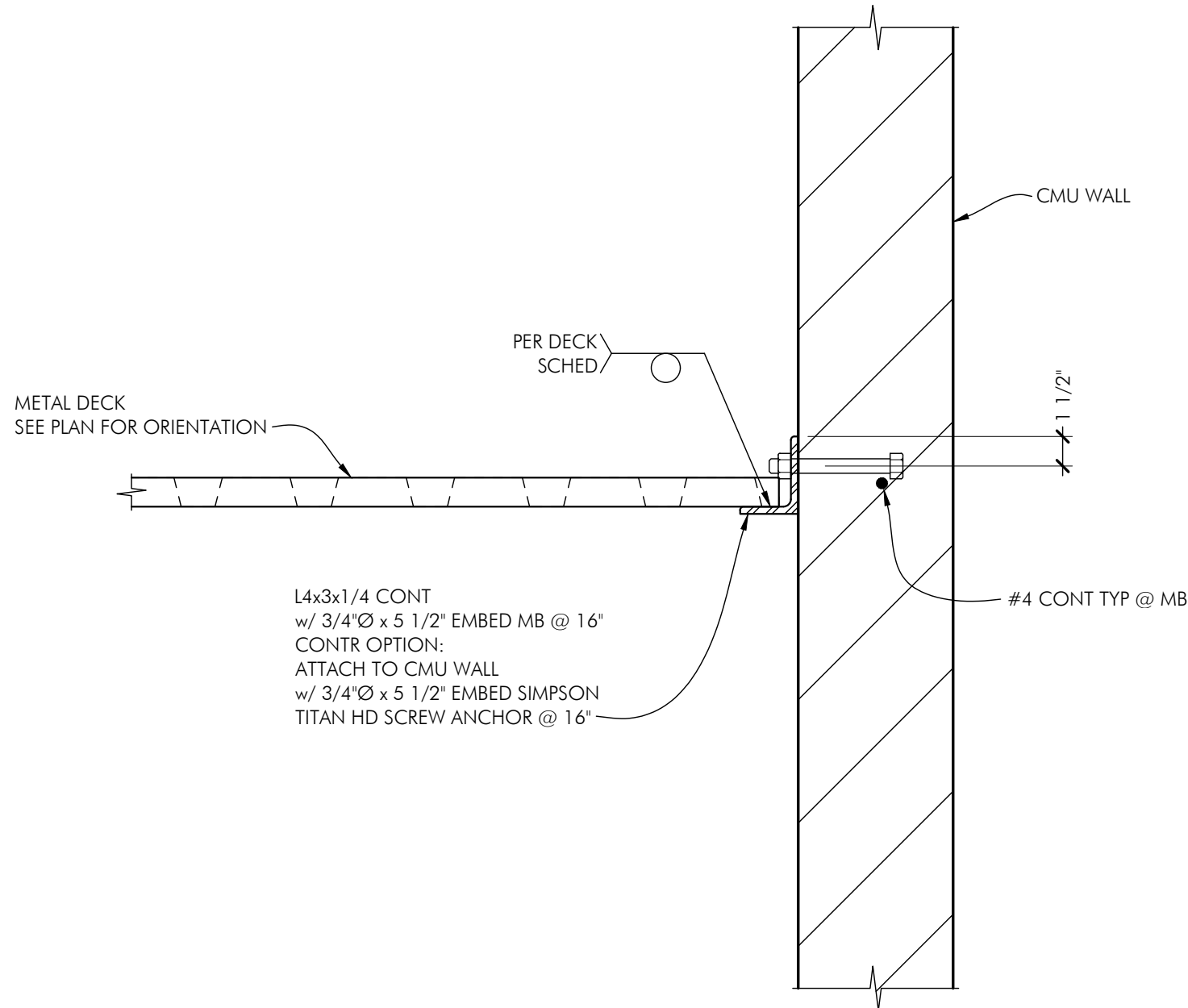
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3' = 1'-0"

ENGJ1

3

K

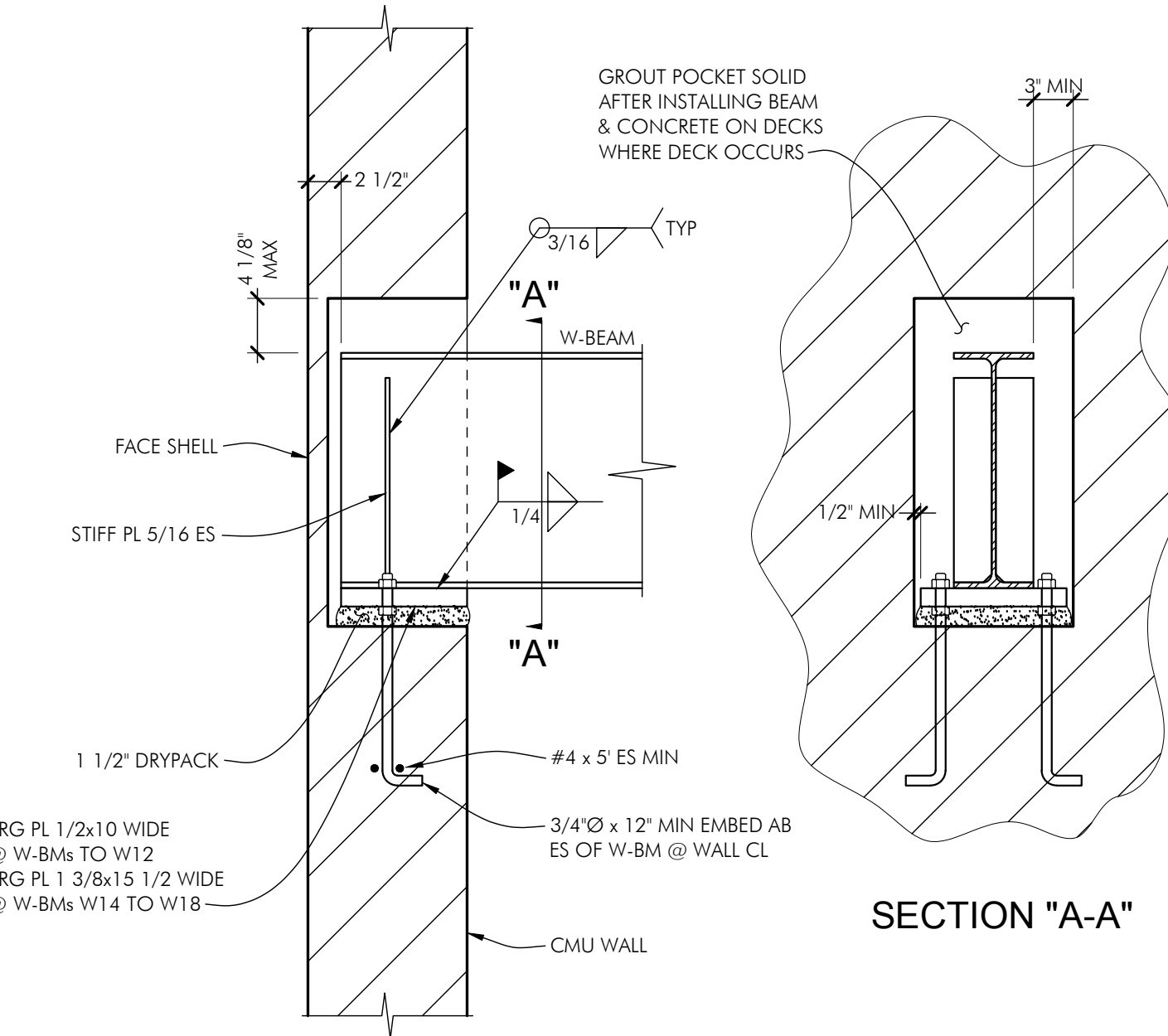


SECTION

1 1/2' = 1'-0"

112

G

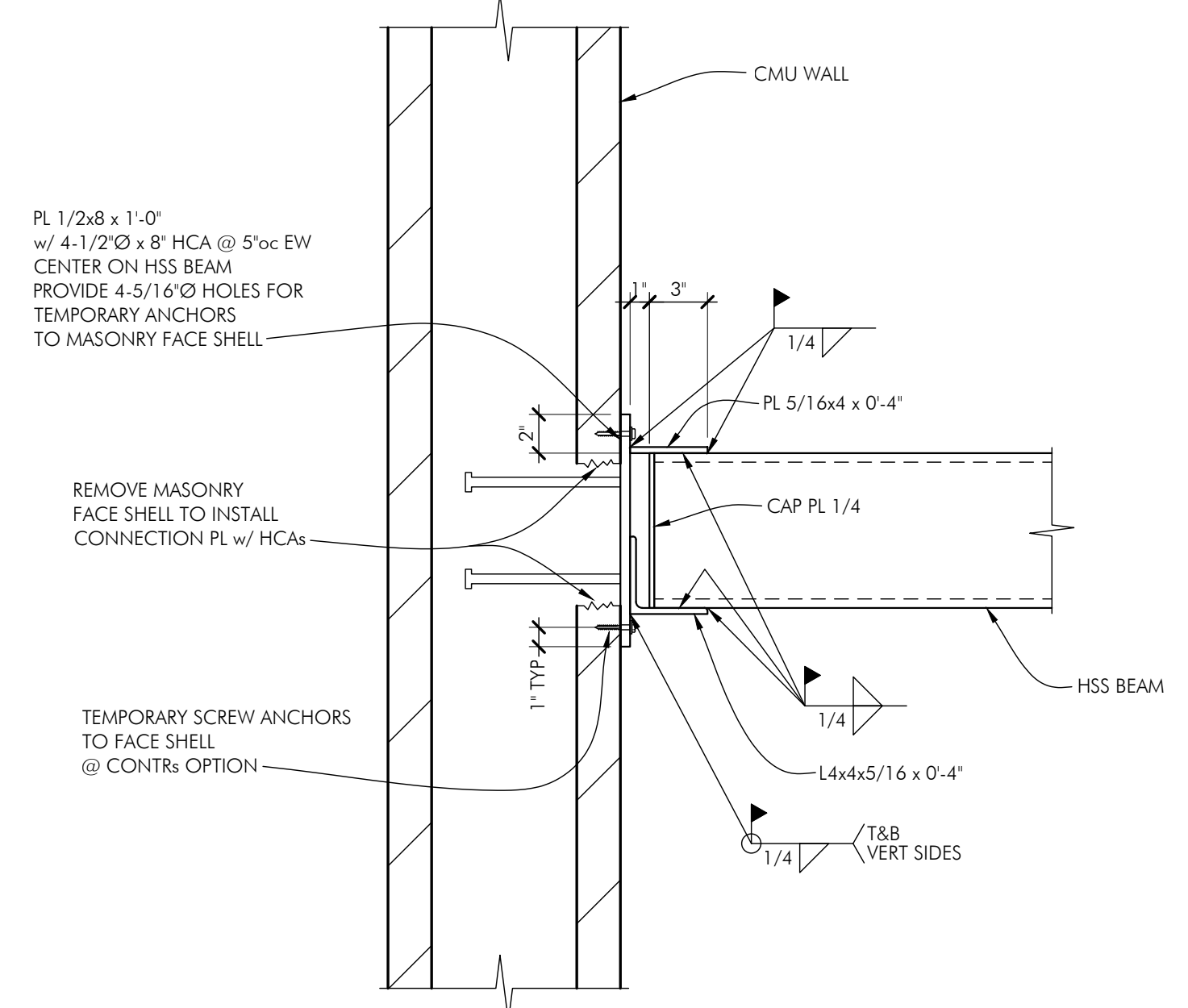


SECTION

1' = 1'-0"

1

D



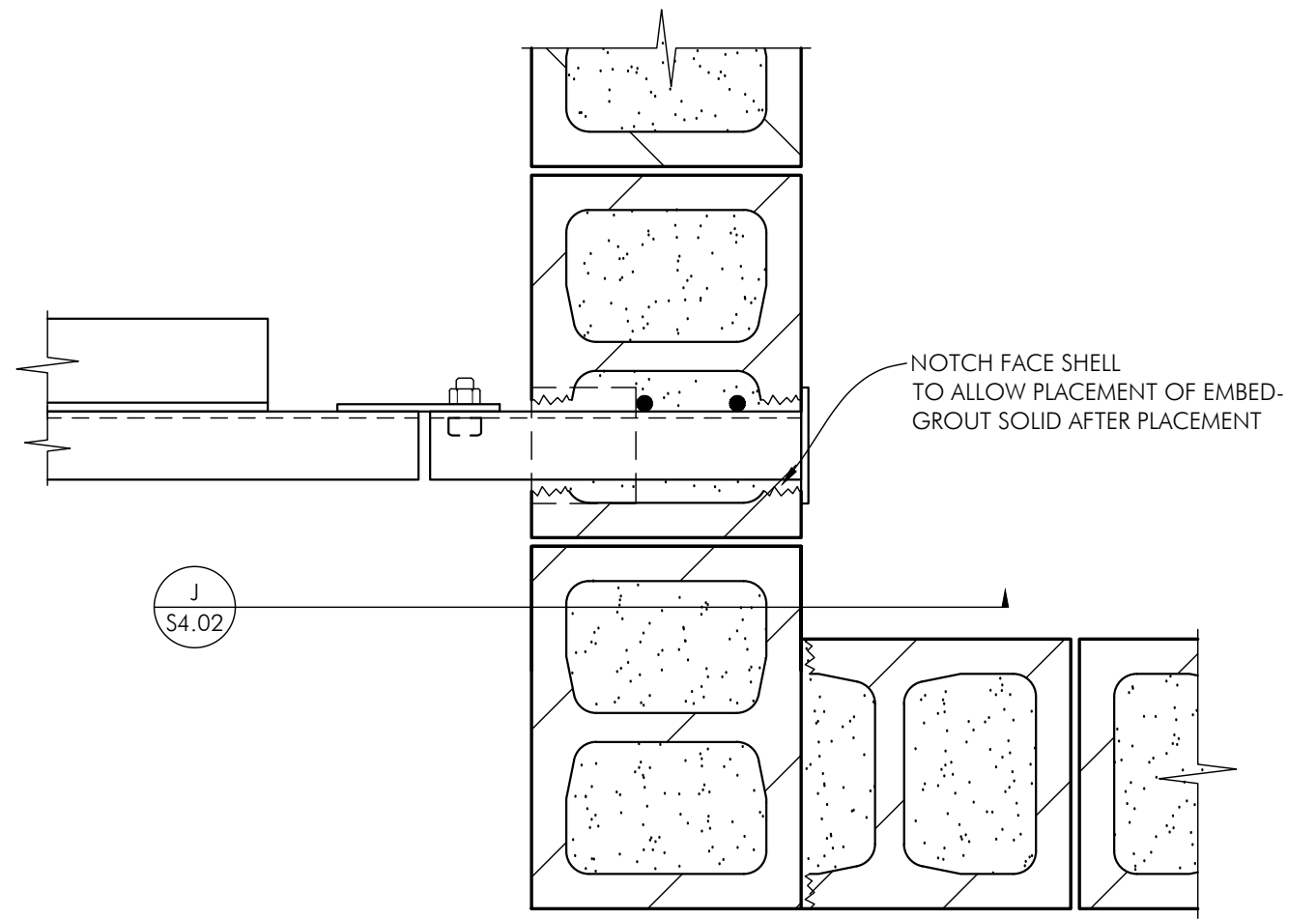
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1 1/2' = 1'-0"

MOD

112

A



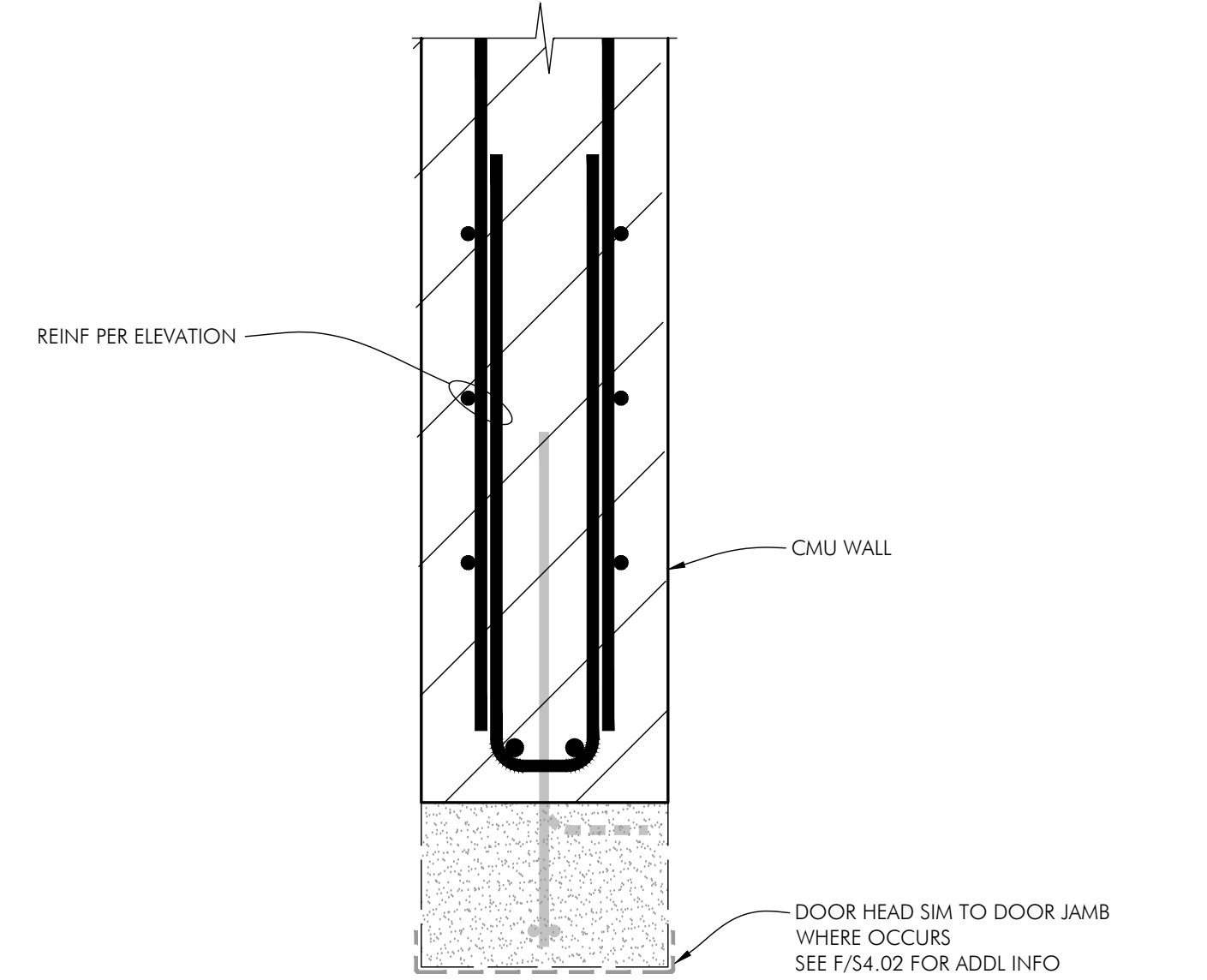
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1 1/2' = 1'-0"

ENGJ3

112

H

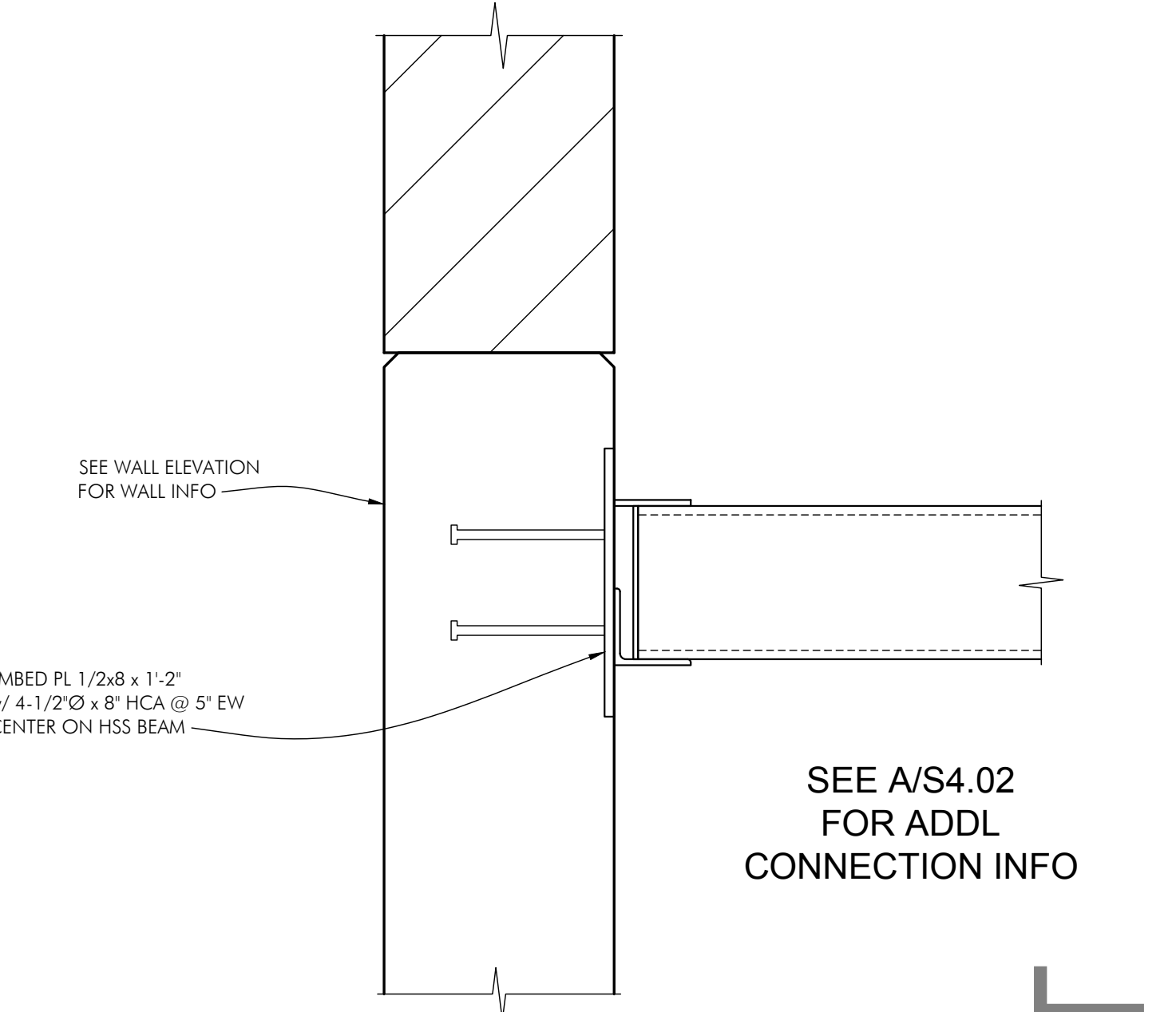


SECTION

1 1/2' = 1'-0"

112

E

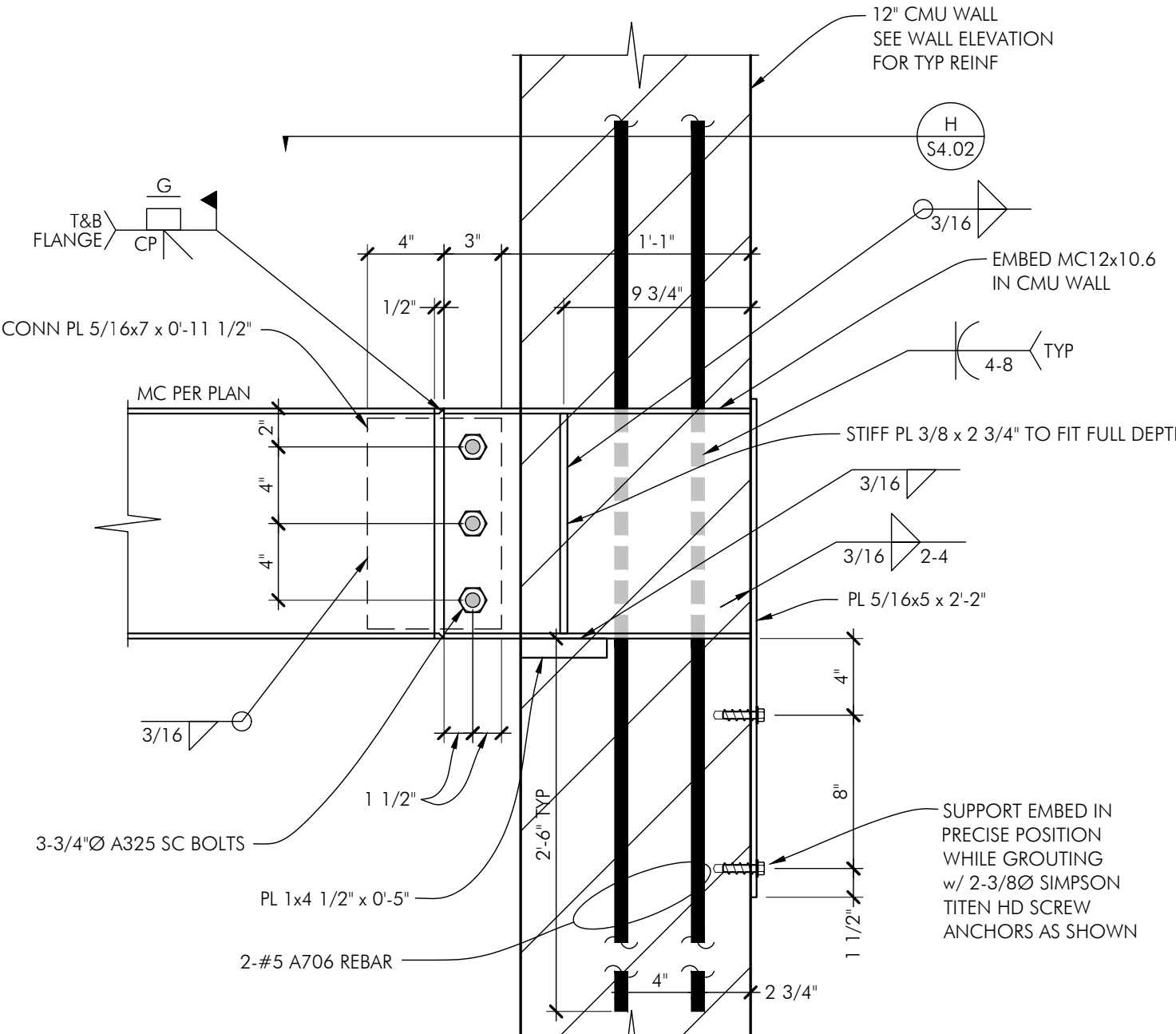


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1 1/2' = 1'-0"

112

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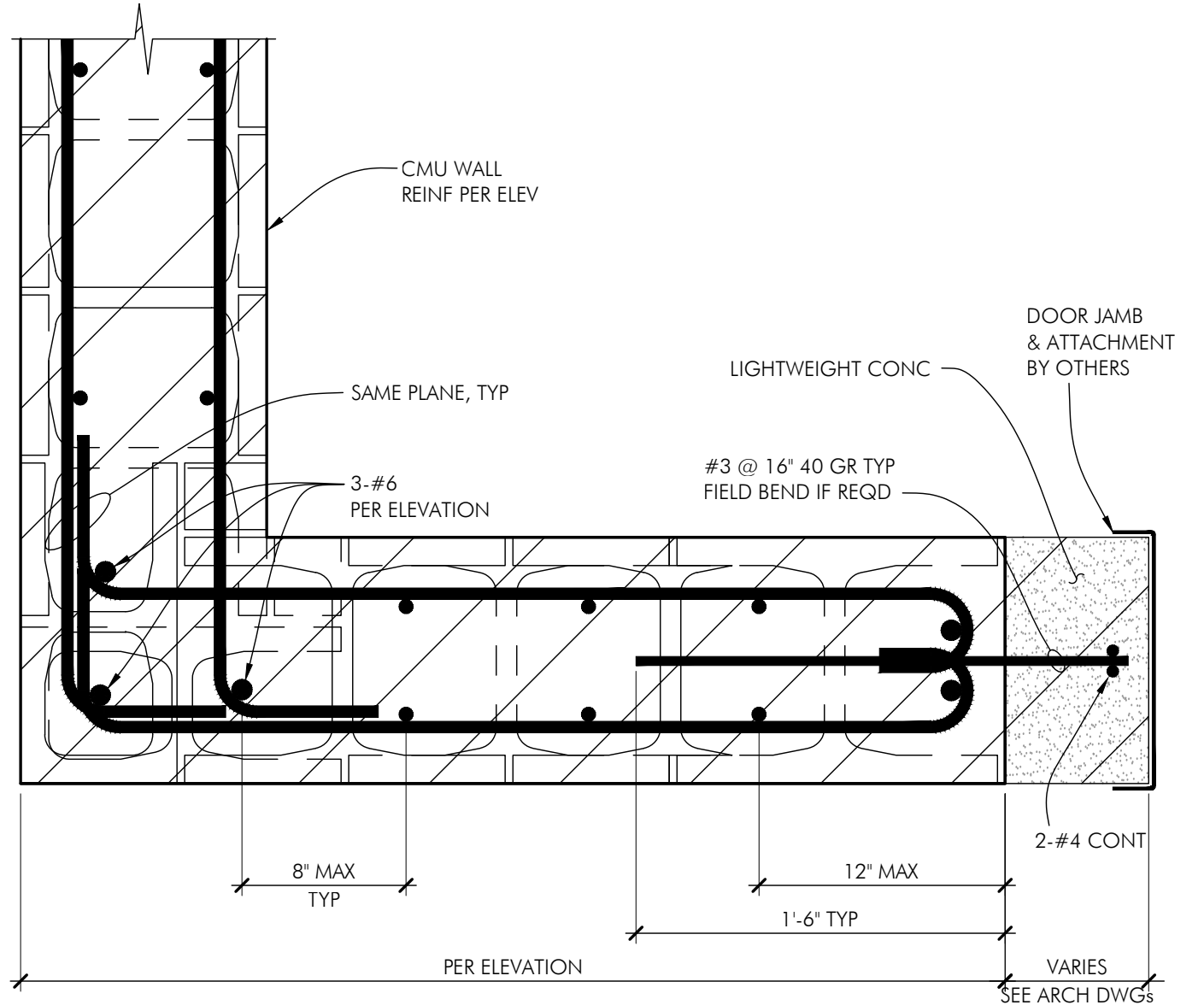


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1 1/2' = 1'-0"

112

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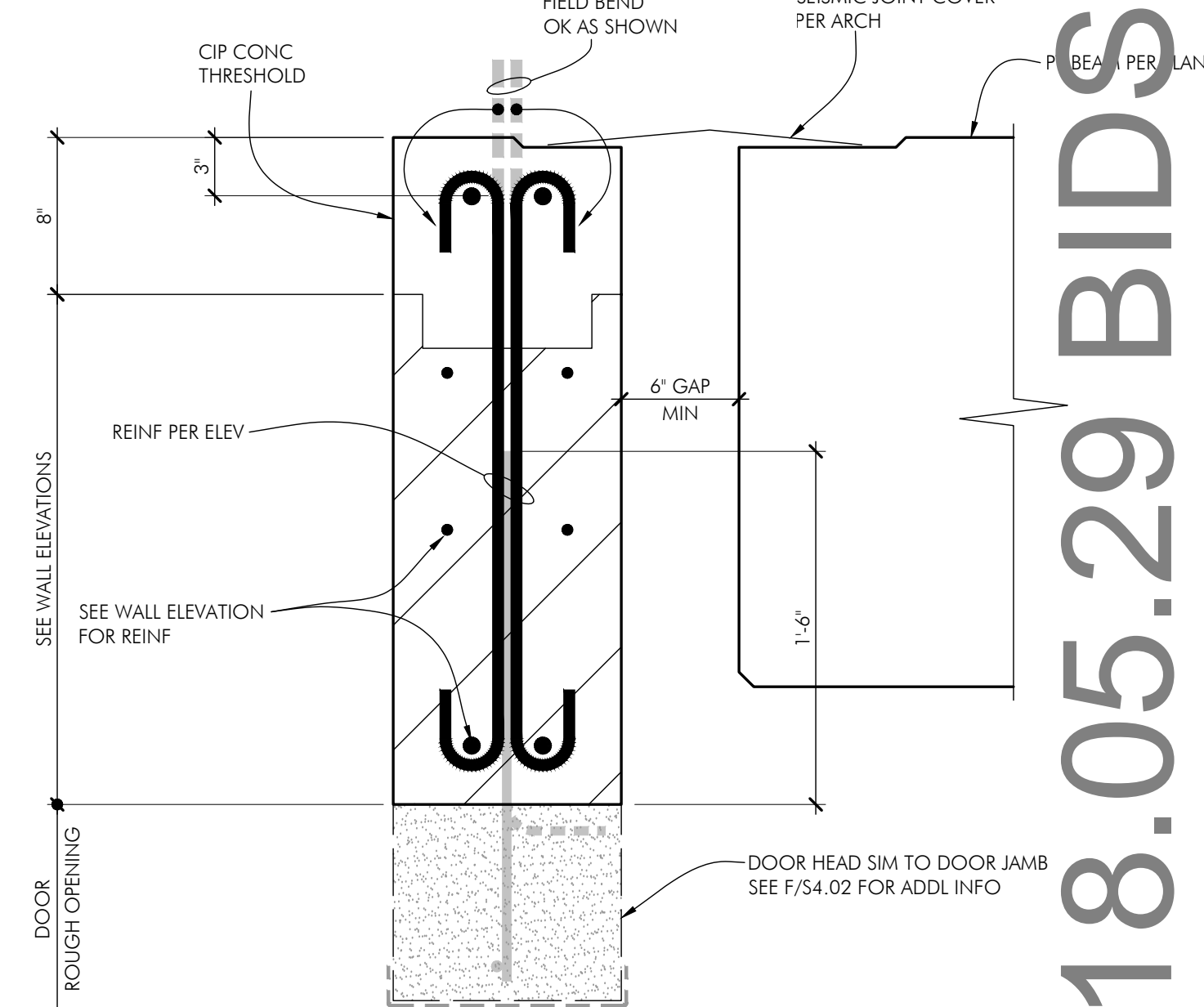


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1 1/2' = 1'-0"

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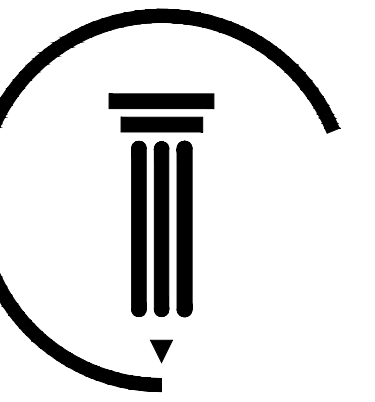


SECTION

1 1/2' = 1'-0"

112

B



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ELEVATOR TOWER  
WALL DETAILS

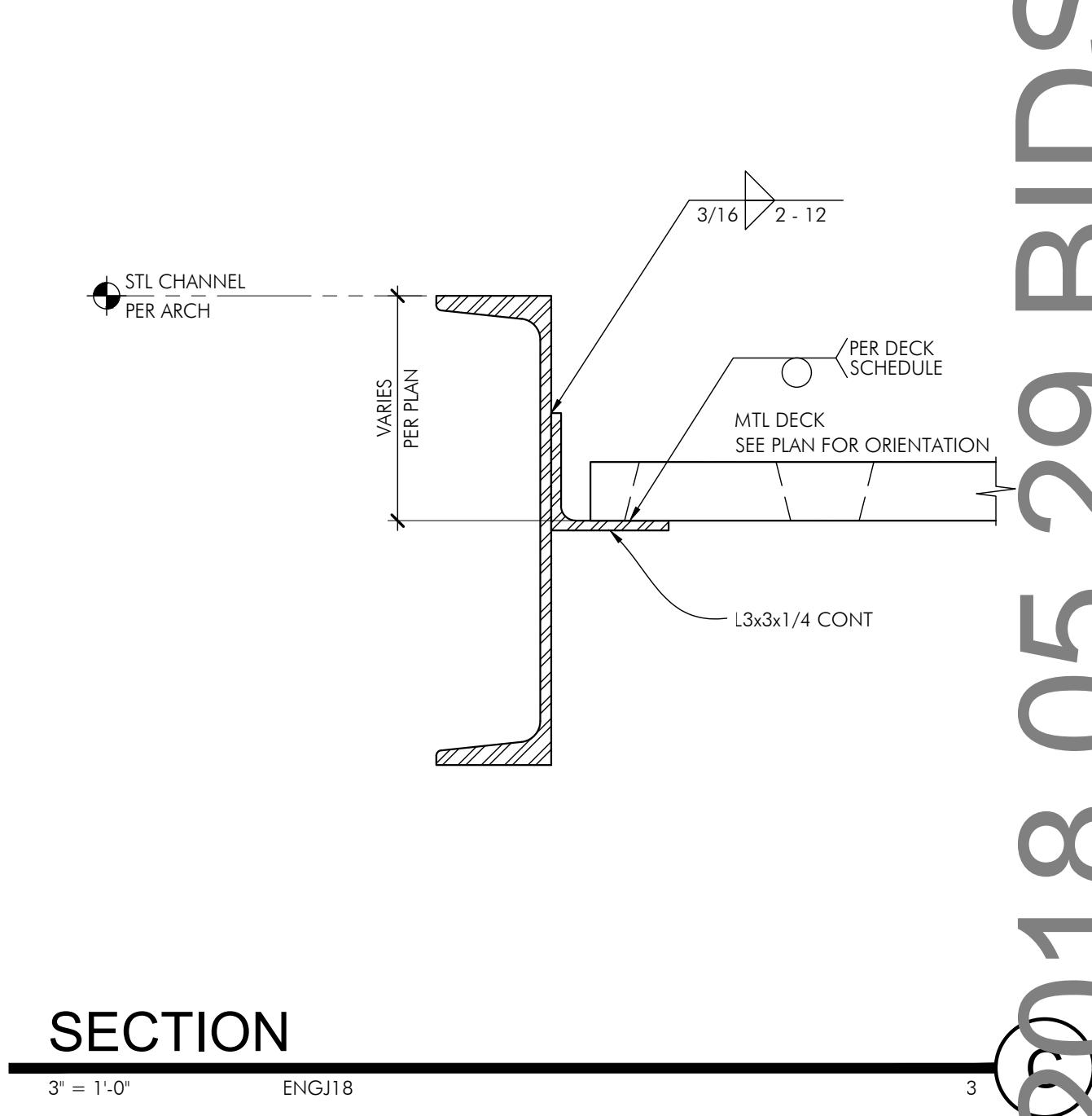
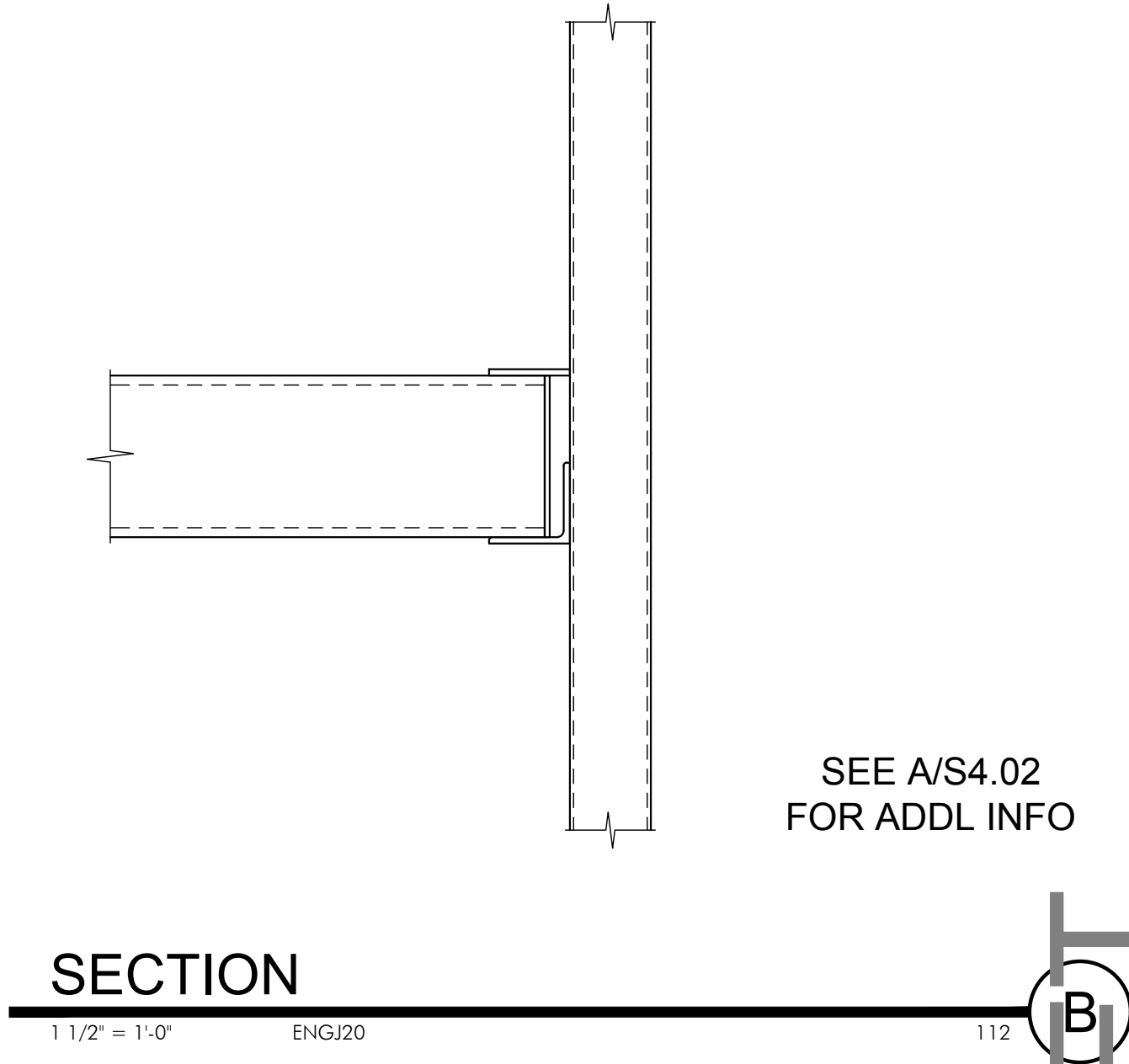
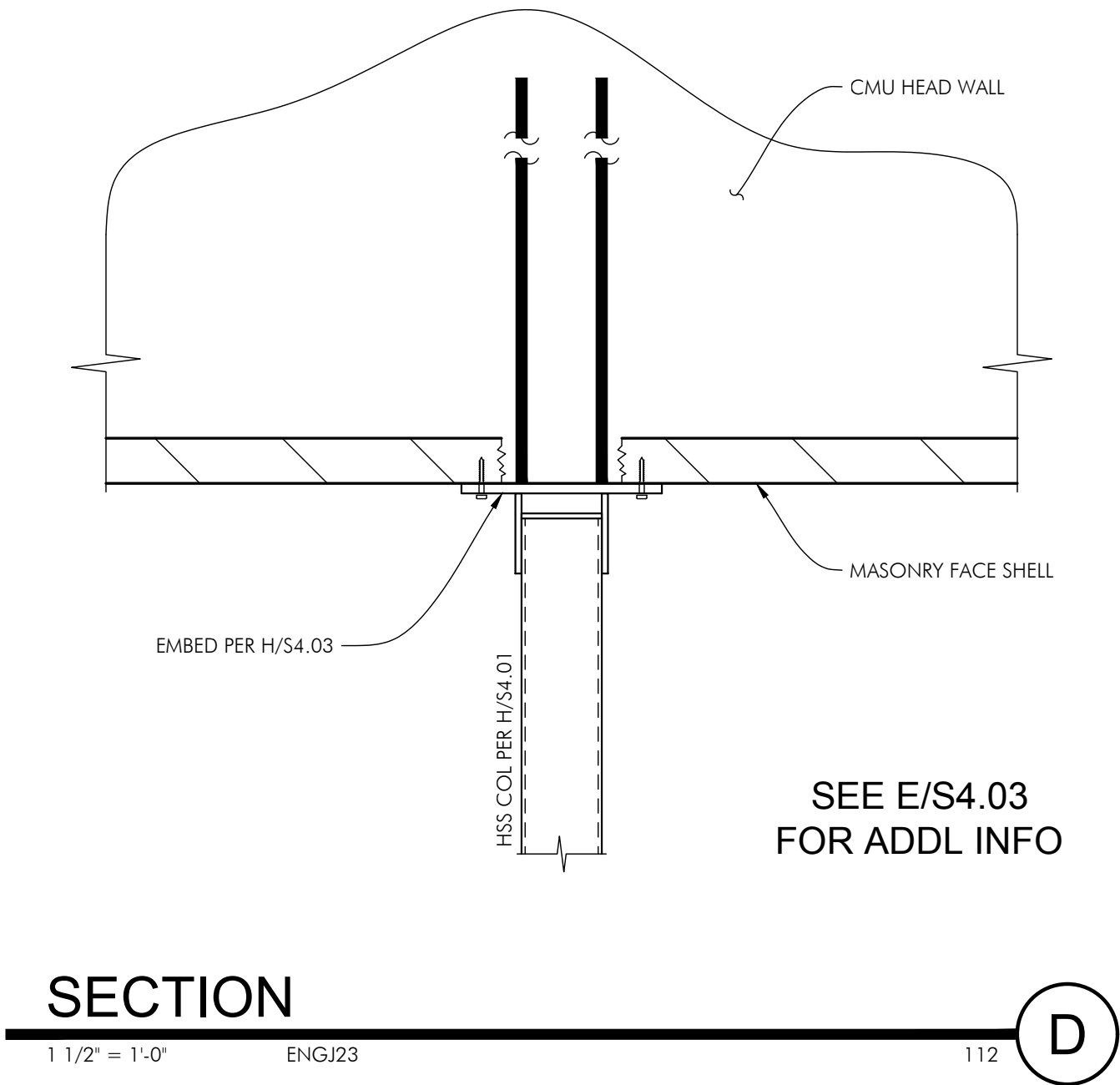
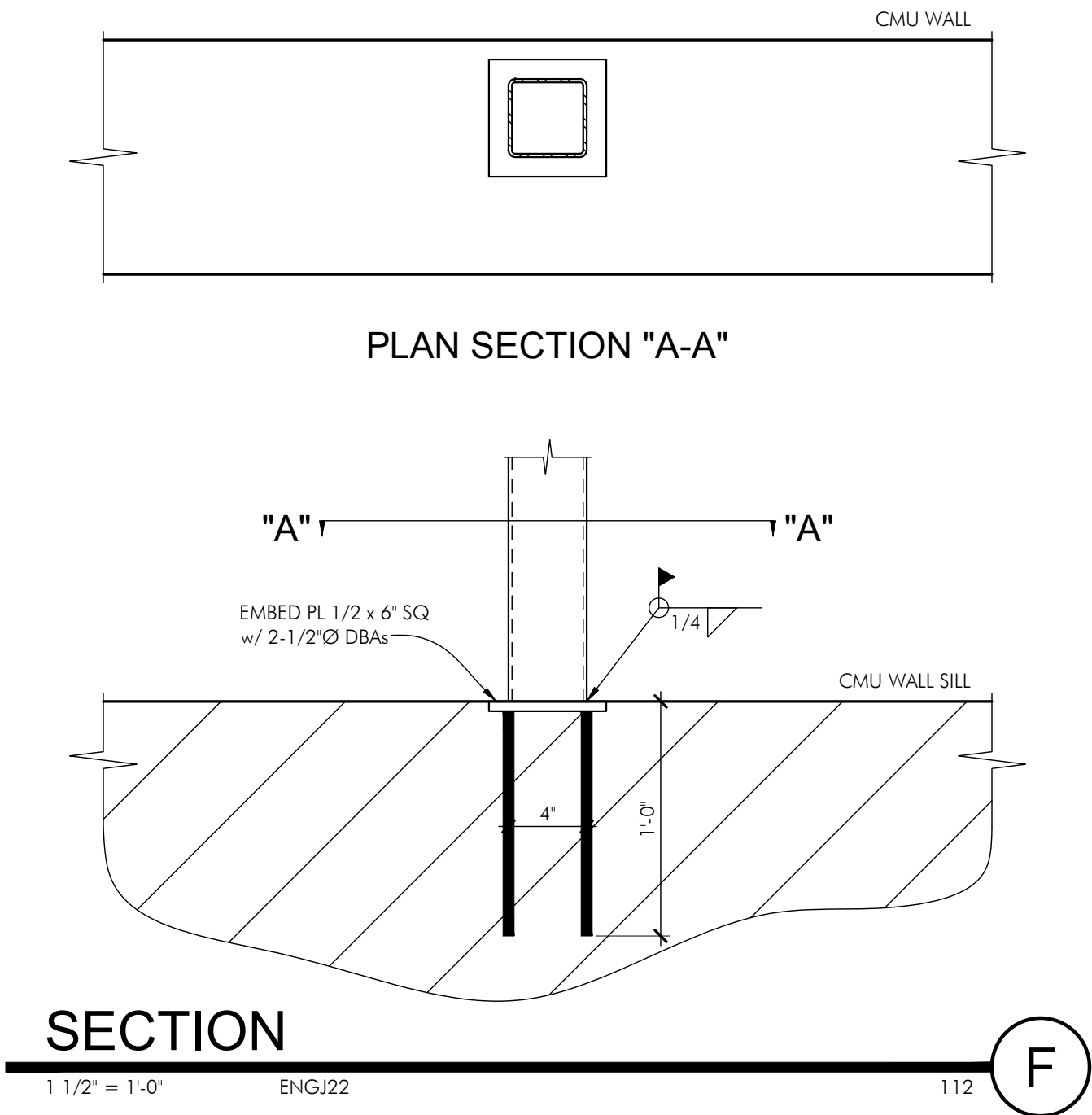
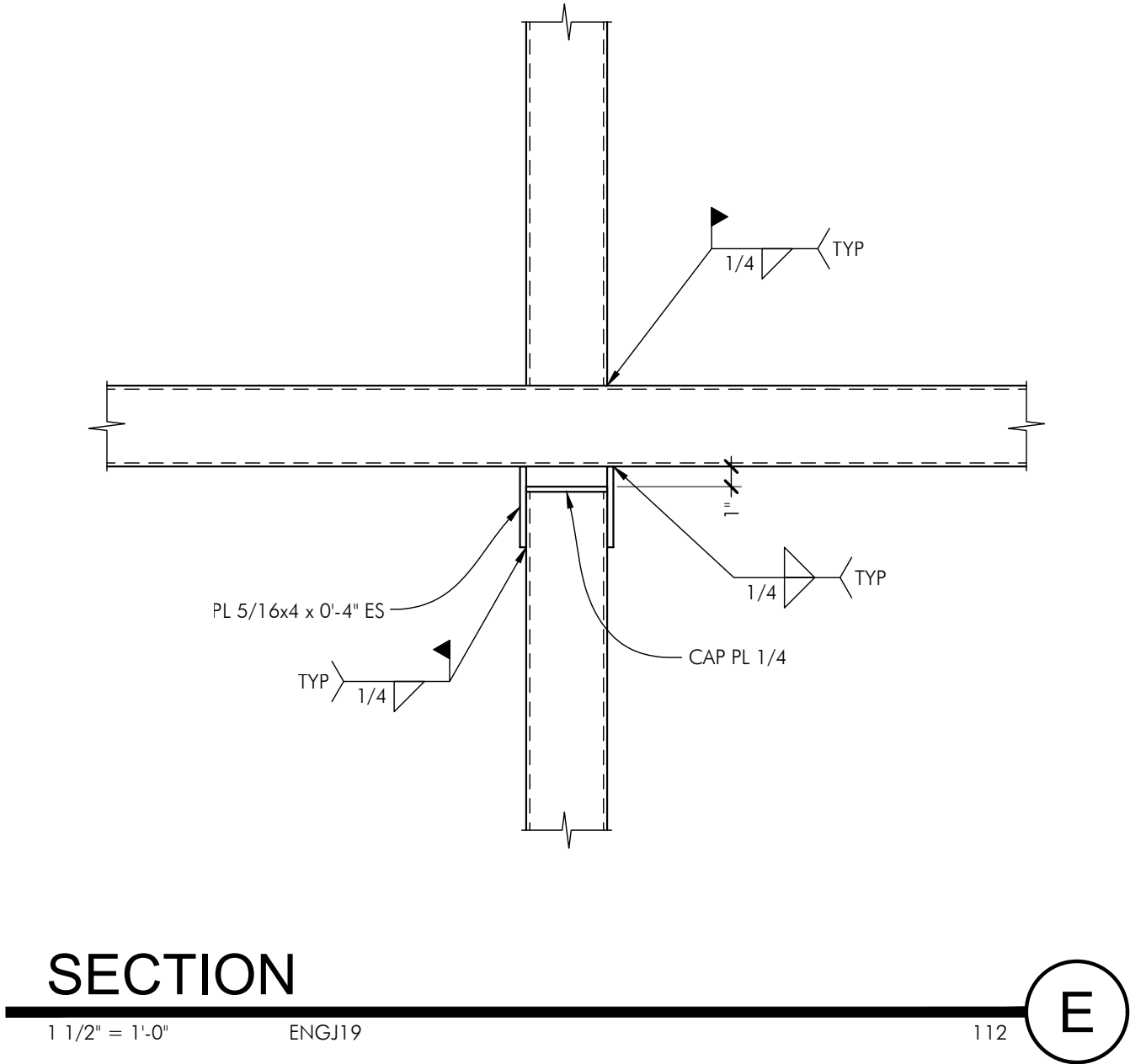
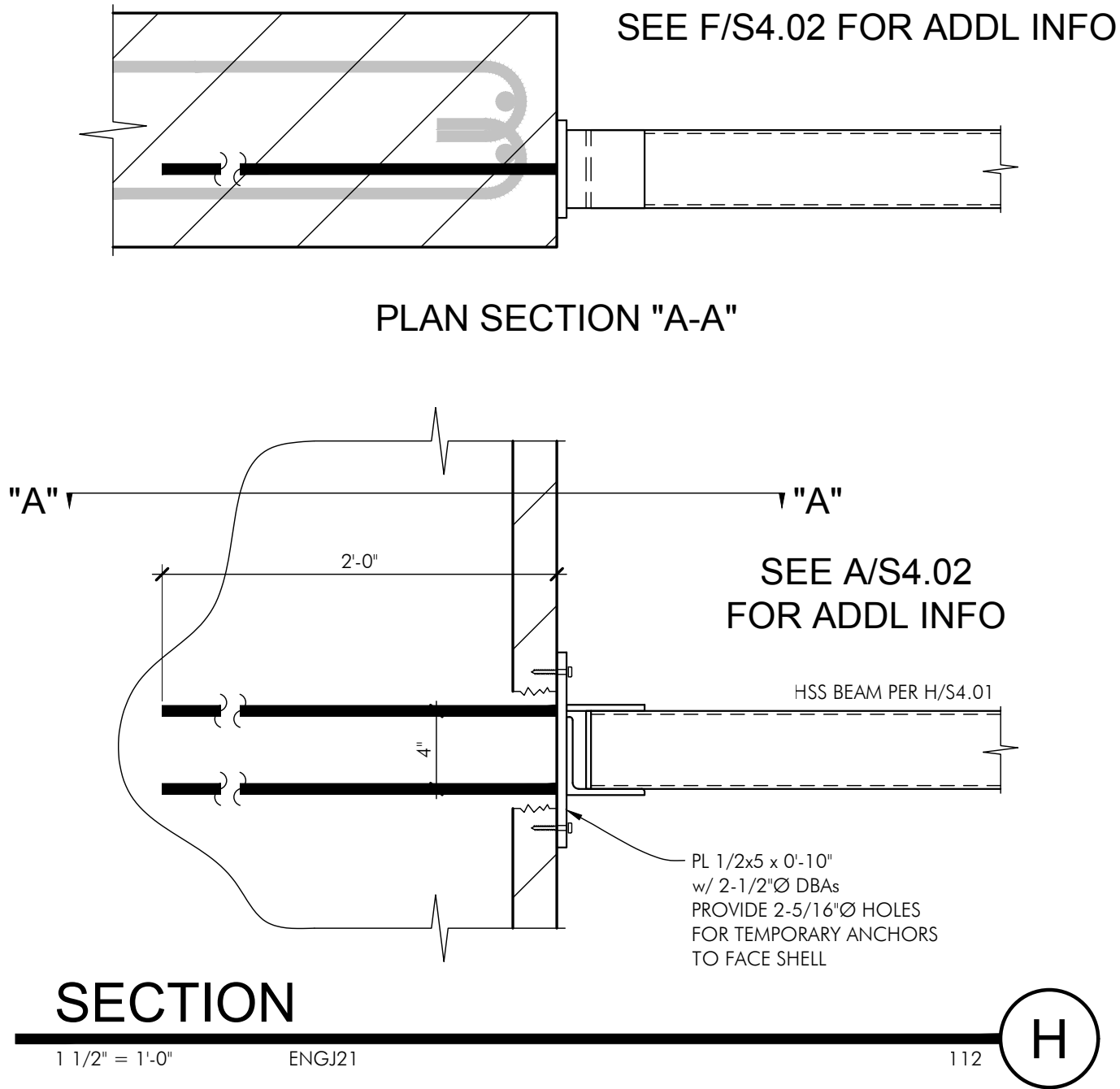
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S4.02

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DECK MARK	GALVANIZED (G60) VERO DECK TYPE	DECK GAGE	MIN SPANS ①	SIDE LAPS		WELDS TO SUPPORTS		CONCRETE FILL		
				PUNCH LOK SPACING	TOP SEAM WELD SPACING	WELD SPACING PARALLEL TO FLUTES ②	WELDS PER SHEET PERPENDICULAR TO FLUTES ②	NET THICKNESS "LW" = LT WT (11.5 pcf MAX)	TOTAL THICKNESS	REINFORCING ③
D1	PLB-36	18	1	12"	---	6"	7	---	---	---

- NOTES:
- SPAN AS INDICATED ON PLAN, CONTINUOUS OVER NUMBER OF SPANS INDICATED, UNO. WHERE MINIMUM NUMBER OF SPANS NOT ATTAINABLE INCREASE DECK GAGE AS REQUIRED SO DECK DOES NOT REQUIRE SHORING.
  - PROVIDE 3/4"Ø (1/2"Ø NET) PUDDLE WELDS AS INDICATED.
  - SEE GENERAL STRUCTURAL NOTES FOR ADDL INFO, "A" = 6x6-W1.4xW1.4 WWF MIN, UNO ON PLAN.
  - PROVIDE 3/4"Ø STUDS AS INDICATED IN QUANTITIES AS SHOWN IN ( ) ON PLAN, EQUALLY SPACED ALONG RESPECTIVE SUPPORT MEMBERS. WHERE DECK WELDING COINCIDES WITH STUD SPACING, DECK WELDS MAY BE OMITTED.
  - ALL INFO SHOWN HERE IS TYPICAL UNO ON PLANS or DETAILS.
  - DO NOT HANG PIPES, DUCTS OR EQUIPMENT FROM METAL DECK. SEE GENERAL NOTE 22-7.

## METAL DECK SCHEDULE

ENGJ17

1



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STRUCTURE AND  
MAIN ENTRY**

Sheet Title

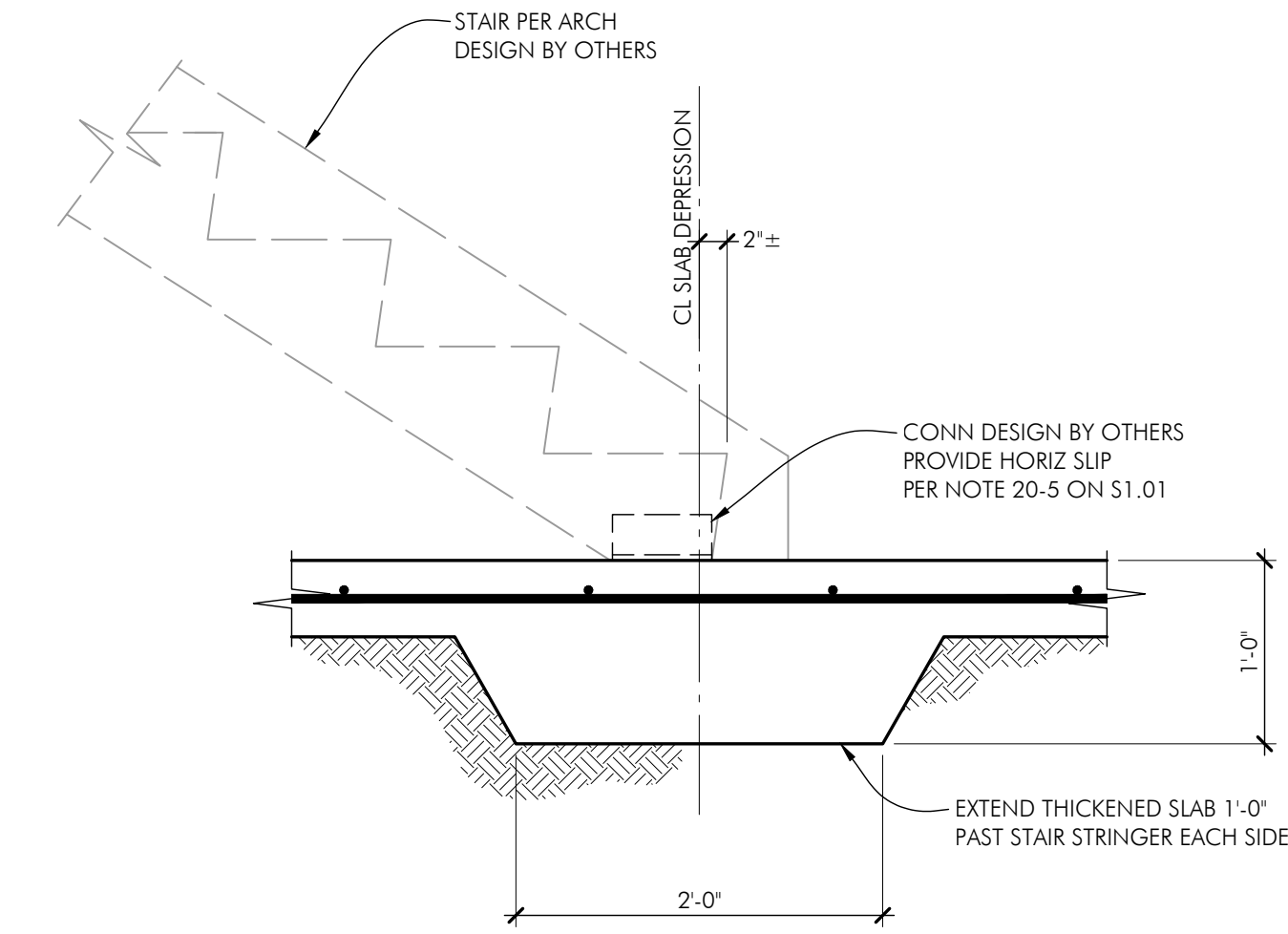
**ELEVATOR TOWER  
WALL DETAILS**

Sheet Number

**S4.03**

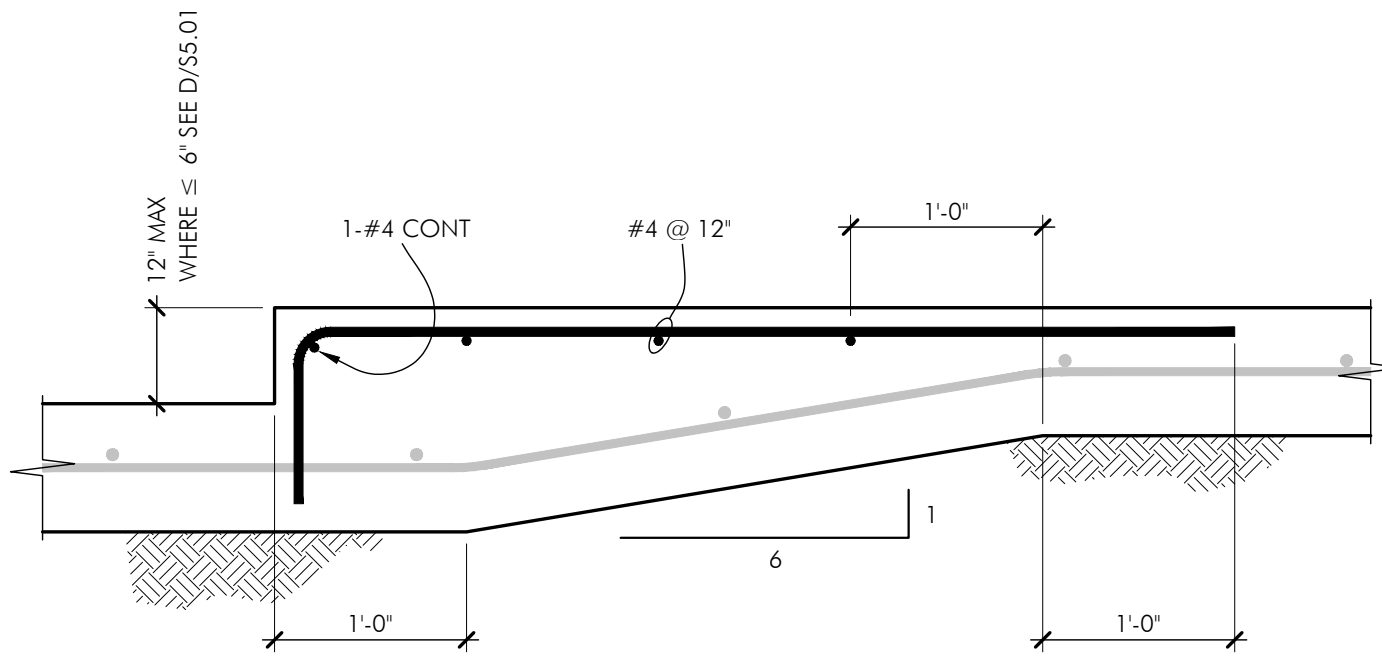
217021 1721 S403  
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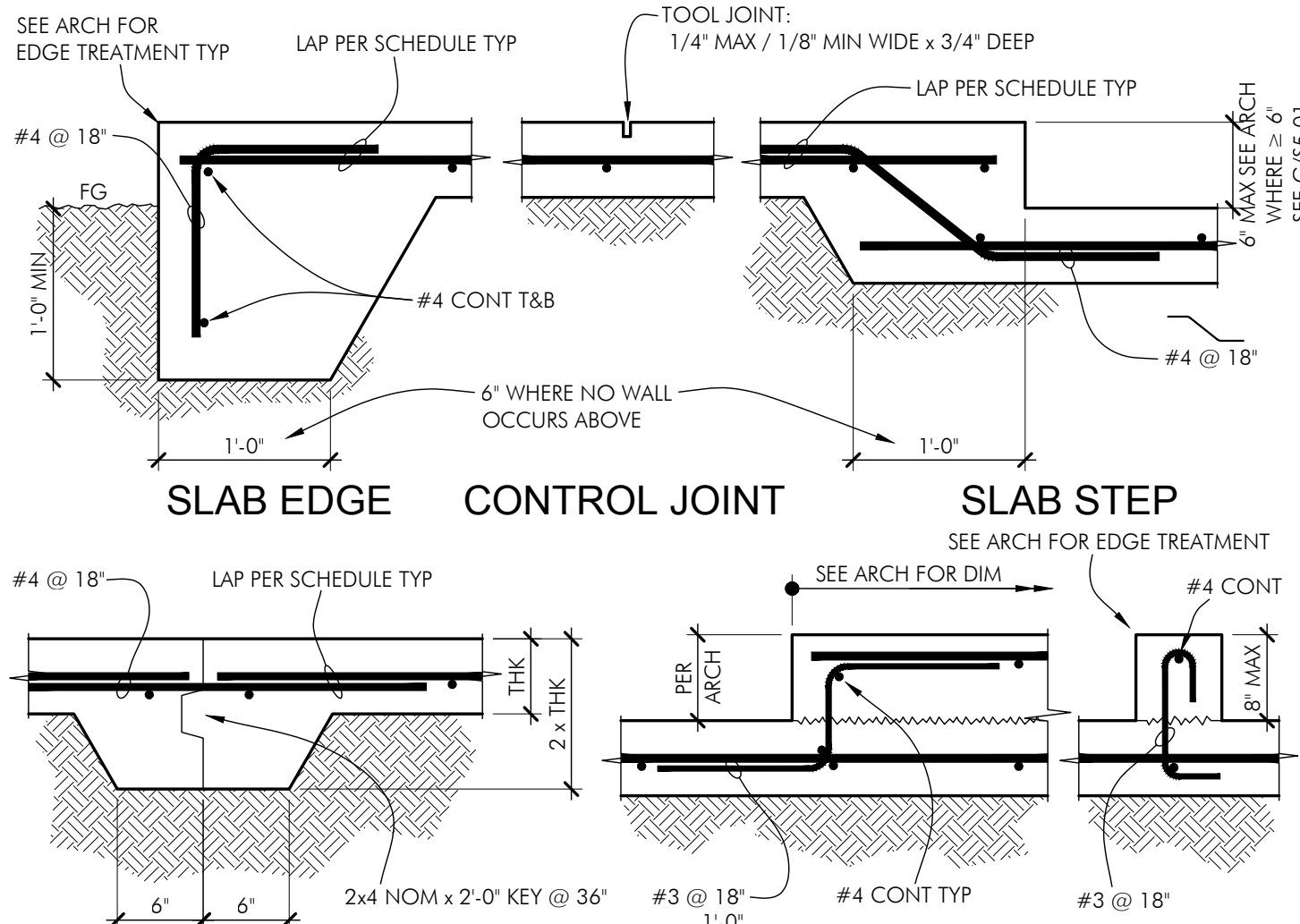
TYP FOOTING AT STEEL STAIR

NO SCALE TCD1050



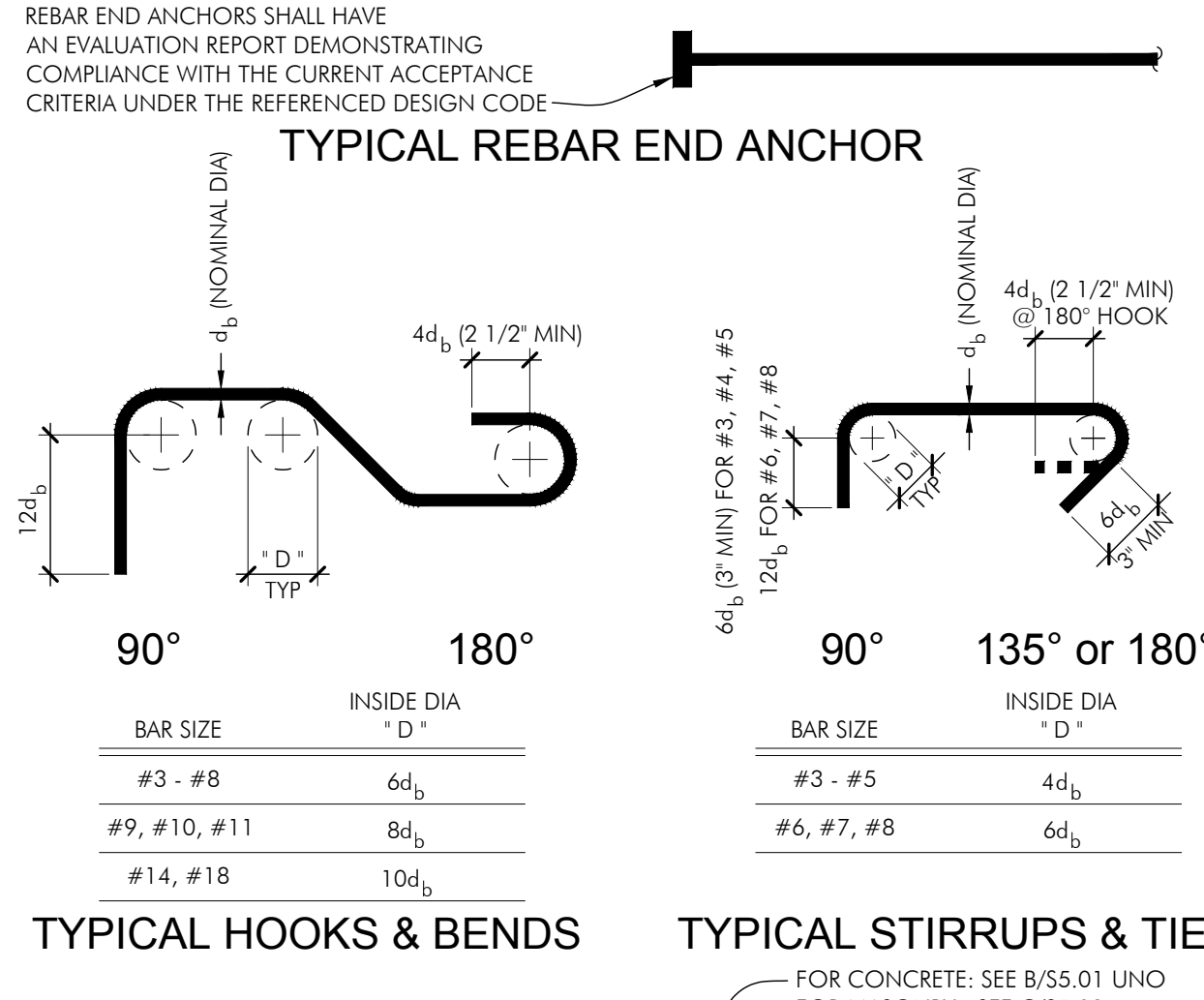
TYP STEP IN SLAB ON GRADE

NO SCALE TCD1101



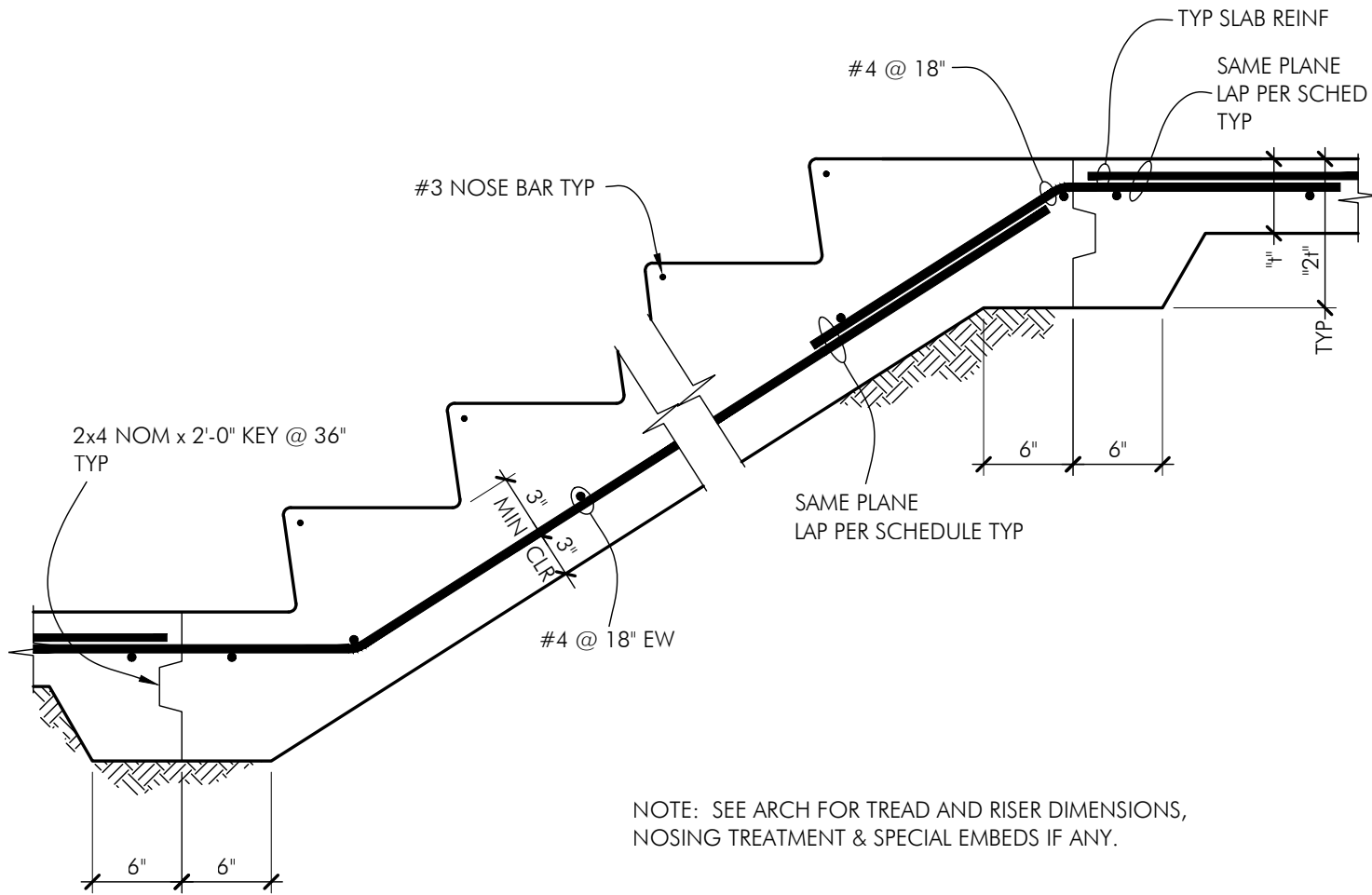
TYP SLAB ON GRADE DETAILS

NO SCALE TCD1100RPS



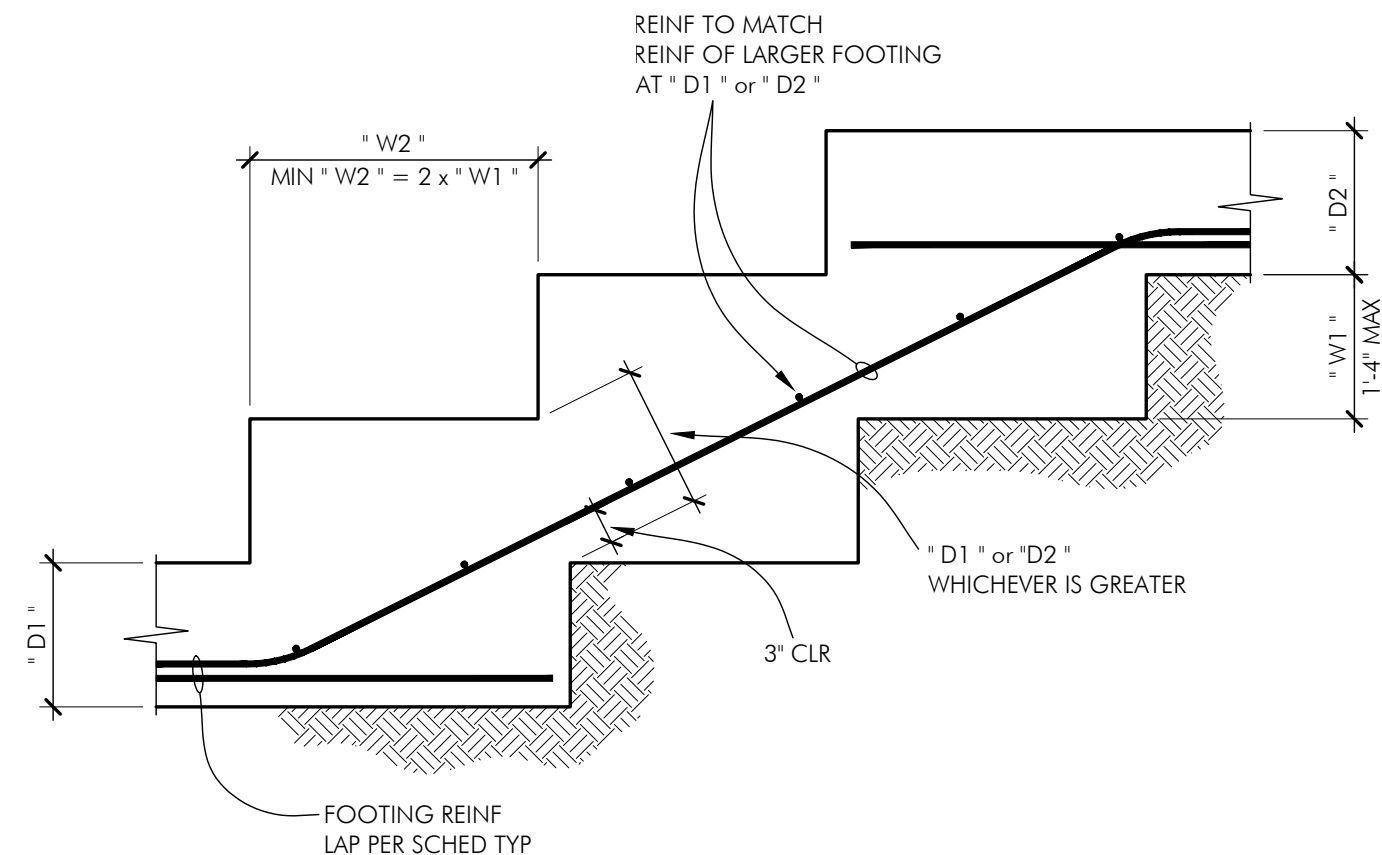
TYPICAL REBAR END ANCHOR

NO SCALE TCD0000



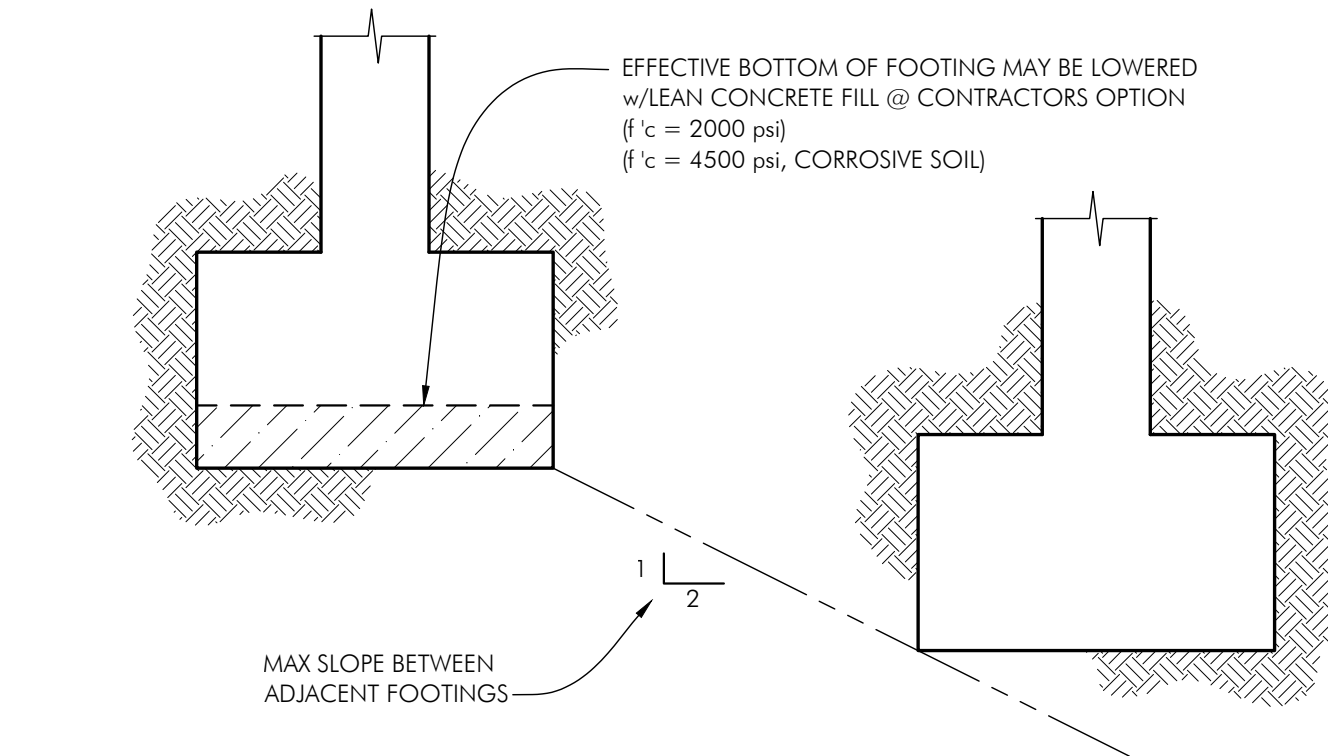
TYPICAL STEPS ON GRADE

NO SCALE TCD1105



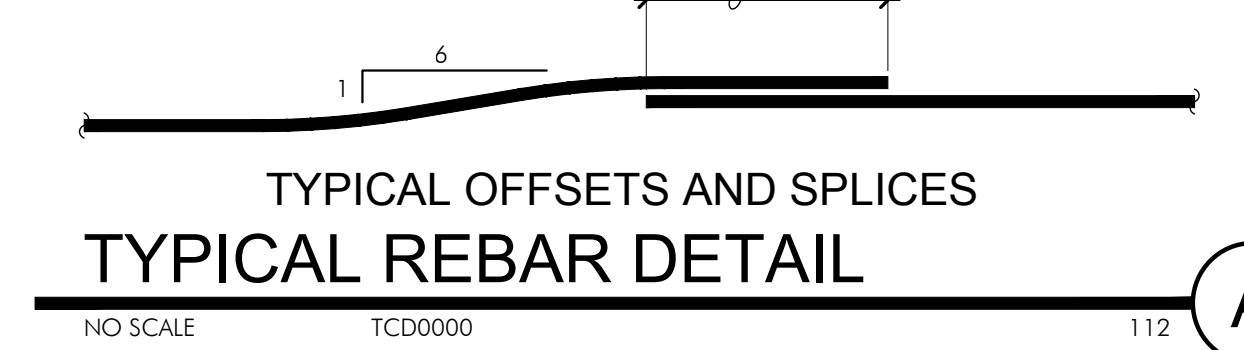
TYP STEPPED FOOTING DETAIL

NO SCALE TCD1010



TYPICAL ADJACENT FOOTING DETAIL

NO SCALE TCD1000A



TYPICAL OFFSETS AND SPLICES

NO SCALE TCD0000

BAR SIZE ASTM (METRIC)	CONCRETE STRENGTH f'c psi						
	3,000	3,500	4,000	4,500	5,000	5,500	6,000 & GREATER
#3 (10)	17	16	15	14	13	12	12
#4 (13)	28	26	24	23	22	21	20
#5 (16)	41	38	36	34	32	31	29
#6 (19)	56	52	49	46	43	42	40
#7 (22)	81	75	71	67	63	60	58
#8 (25)	93	86	81	76	72	69	66
#9 (29)	105	97	91	86	81	78	74
#10 (32)	118	109	102	96	92	87	84
#11 (36)	131	121	113	107	102	97	93

- NOTES:
- LAP LENGTHS SHOWN ARE IN INCHES.
  - INCREASE LAP LENGTHS 33% FOR LIGHTWEIGHT CONCRETE (110 pcf), 20% FOR 3 BAR BUNDLES (WHERE 1 BAR LAPS WITH 2 OTHER BARS), AND 33% AT 4 BAR BUNDLES (WHERE 2 BARS LAP WITH 2 OTHER BARS).
  - TOP BARS - HORIZ BARS PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM.
  - MIN CLEAR COVER > d<sub>s</sub> (3/4" MIN) AND CLEAR SPACING > 2d<sub>s</sub> (1.5" MIN).
  - INCREASE LAP LENGTHS 50% FOR EPOXY COATED BARS.

TYPICAL CONCRETE REBAR LAP SCHEDULE

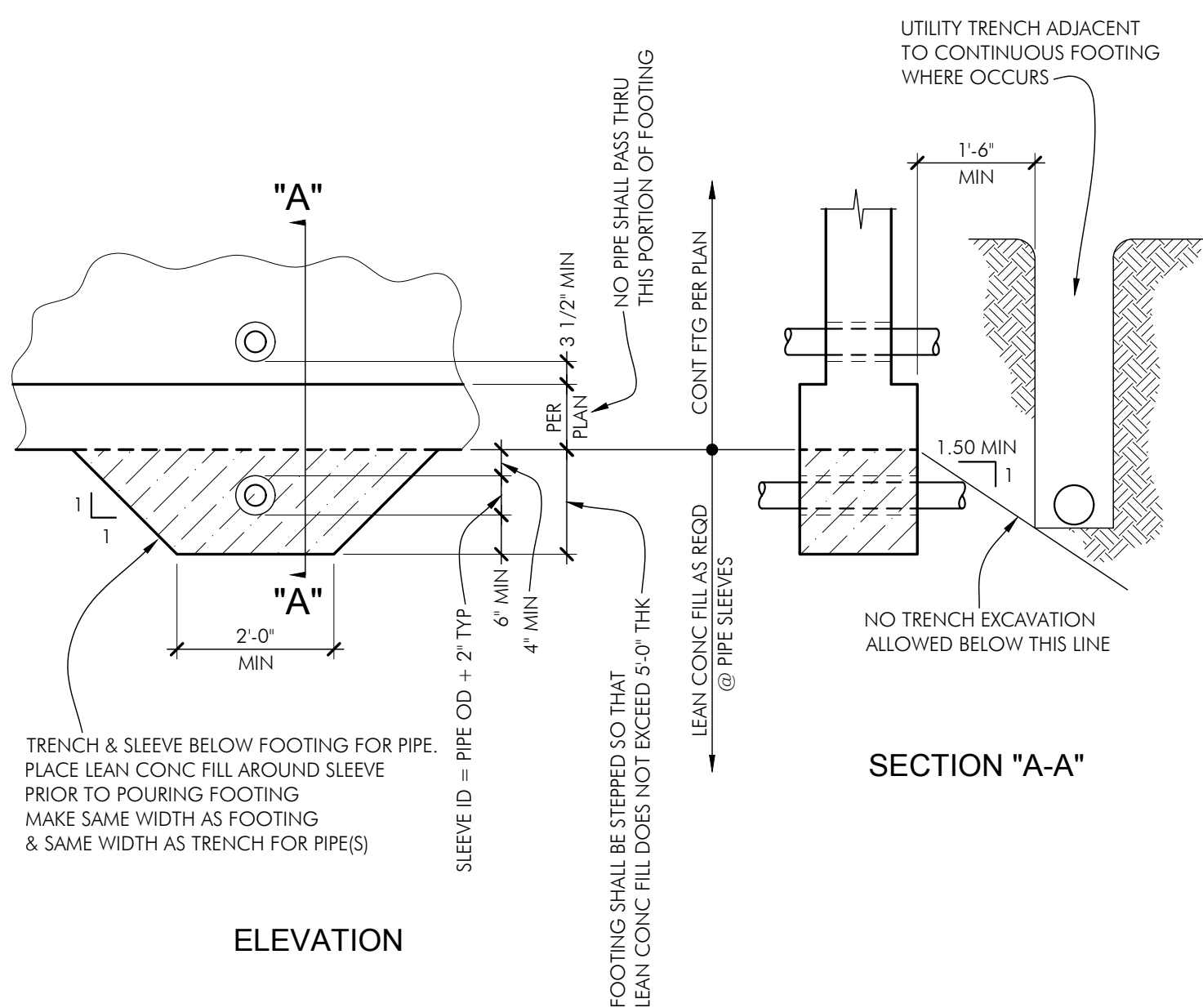
NO SCALE TCD0005

WWF SP x SP - D# x D#	WWF LAP LENGTH		
	f'c = 3000	f'c = 4000	f'c = 5000
12 x 12 - D8.3 x D8.3	16	16	16
16 x 16 - D8.3 x D8.3	16	16	16
18 x 18 - D8.3 x D8.3	16	16	16
24 x 24 - D8.3 x D8.3	16	16	16
12 x 12 - D15 x D15	20	18	16
16 x 16 - D15 x D15	20	18	16
18 x 18 - D15 x D15	20	18	16
24 x 24 - D15 x D15	20	18	16
12 x 12 - D23.3 x D23.3	25	22	20
16 x 16 - D23.3 x D23.3	25	22	20
18 x 18 - D23.3 x D23.3	25	22	20

- NOTES:
- LAP LENGTHS ARE IN INCHES.
  - INCREASE LAP LENGTHS 33% FOR LIGHT WEIGHT CONCRETE (110 pcf).
  - INCREASE LAP LENGTHS 30% FOR HORIZONTAL REINFORCEMENT PLACED WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW THE SPLICE.
  - INCREASE LAP LENGTH 50% FOR EPOXY COATED BARS.

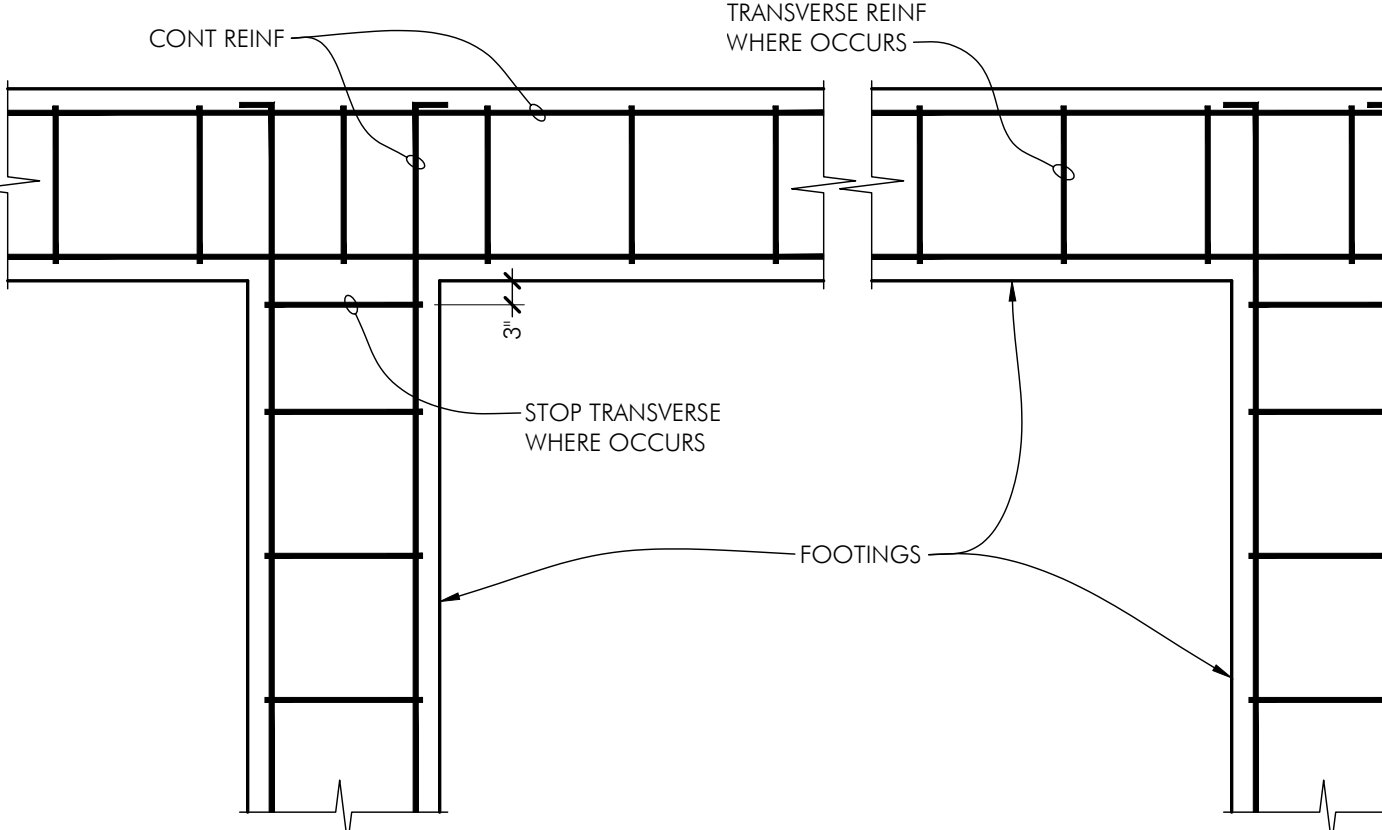
TYPICAL DEFORMED WWF LAP SCHEDULE

NO SCALE TCD0006



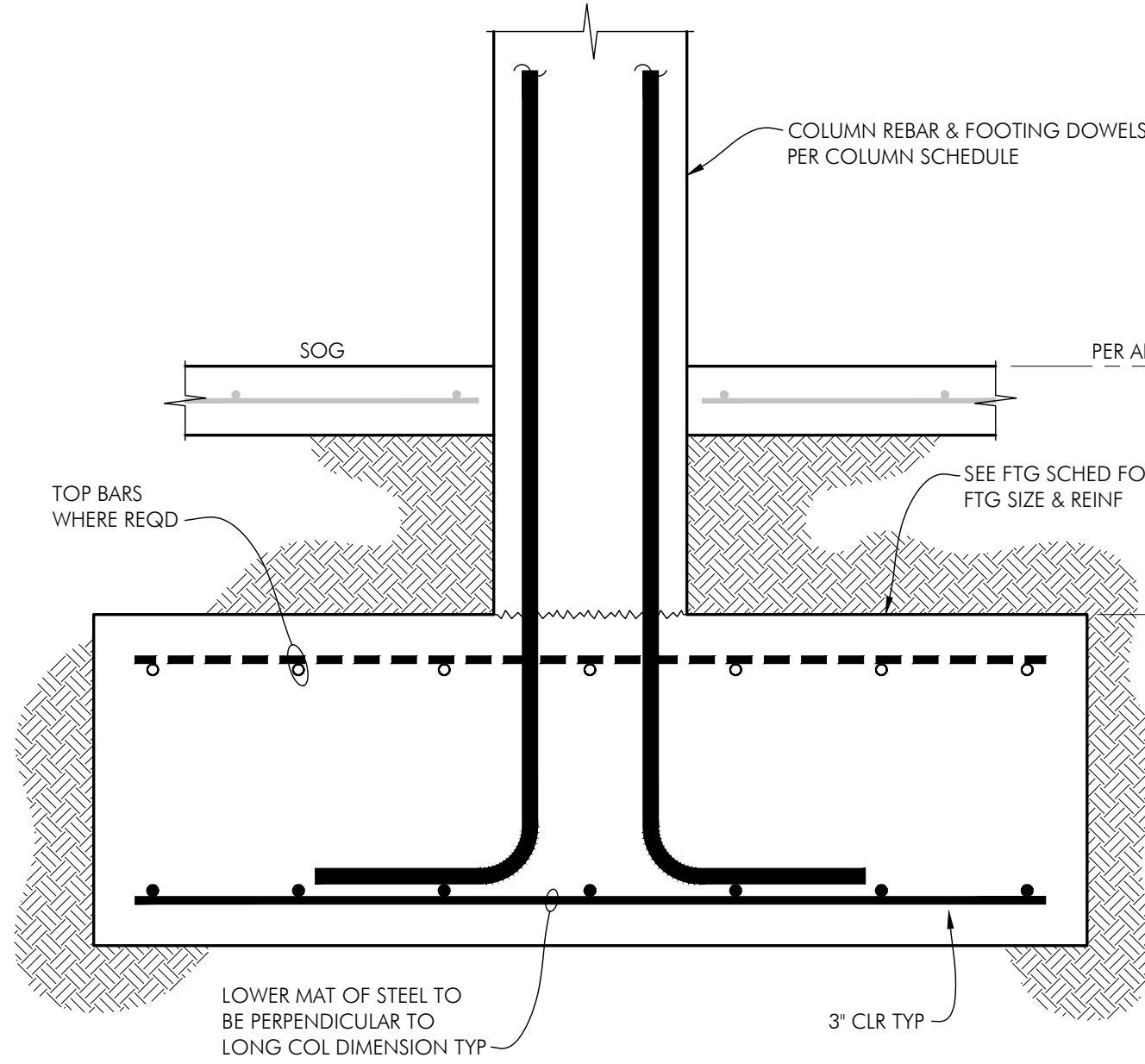
TYPICAL PIPE THRU FOOTING

NO SCALE TCD1005



TYP FTG REINFORCING PLAN SECTION AT INTERSECTIONS

NO SCALE TCD1070



TYP CONC COL FTG DETAIL

NO SCALE TCD1021



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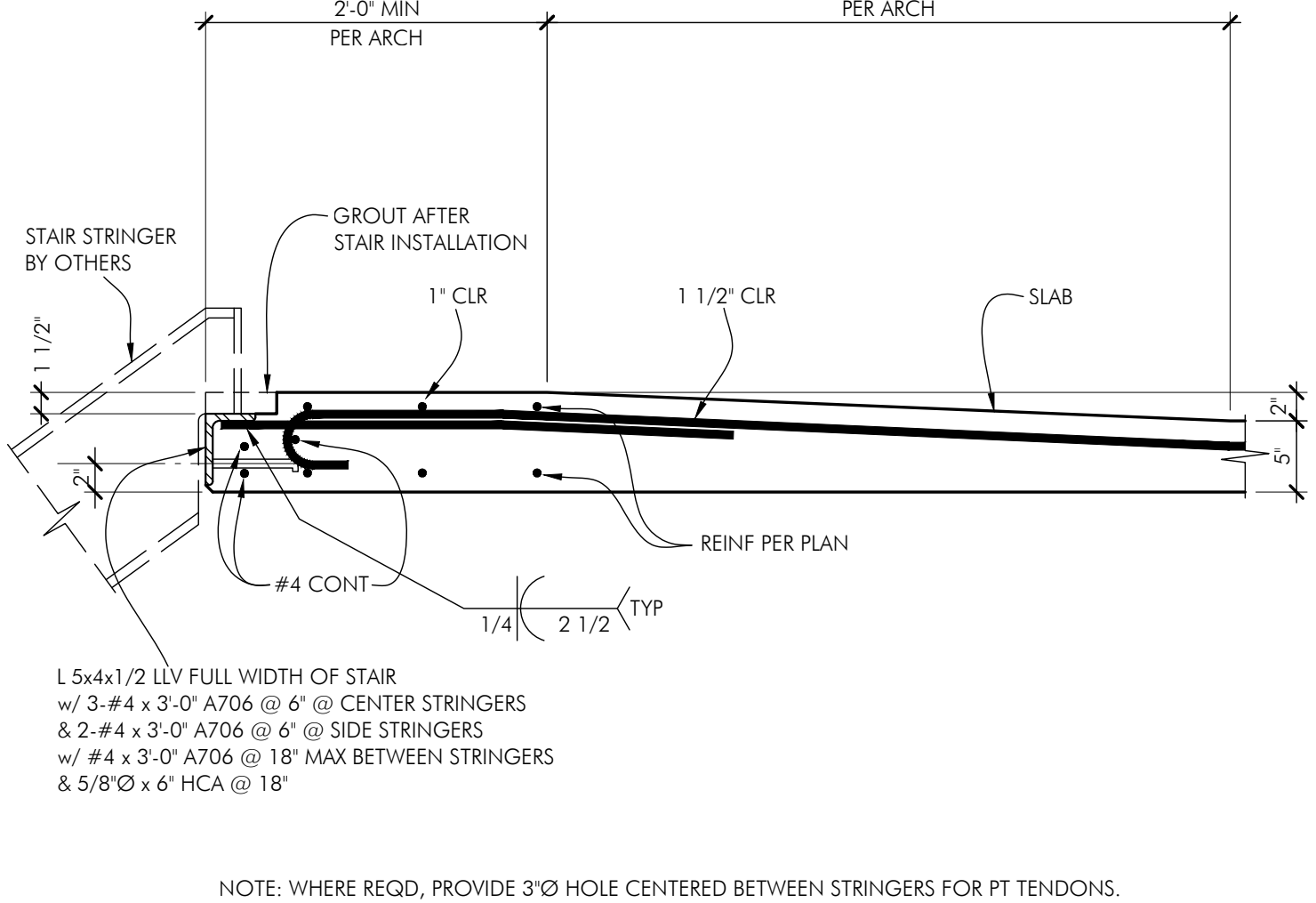
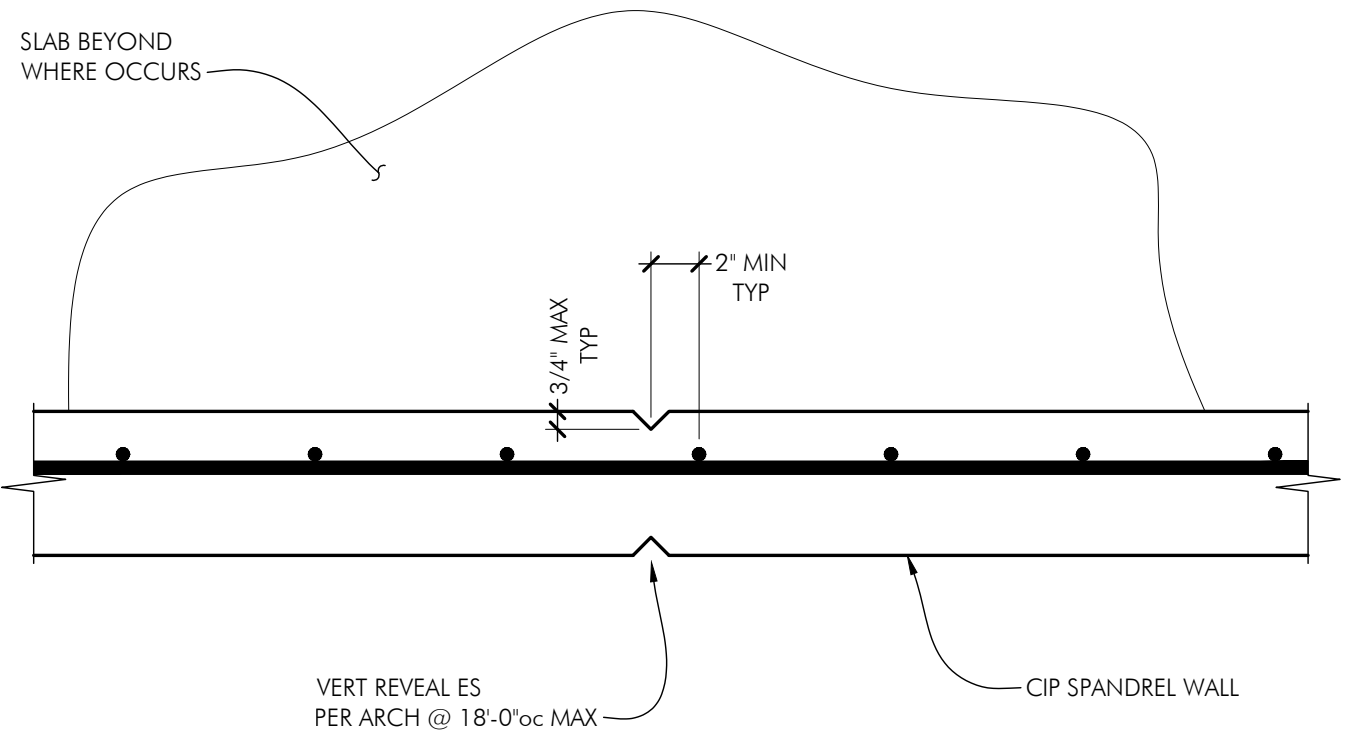
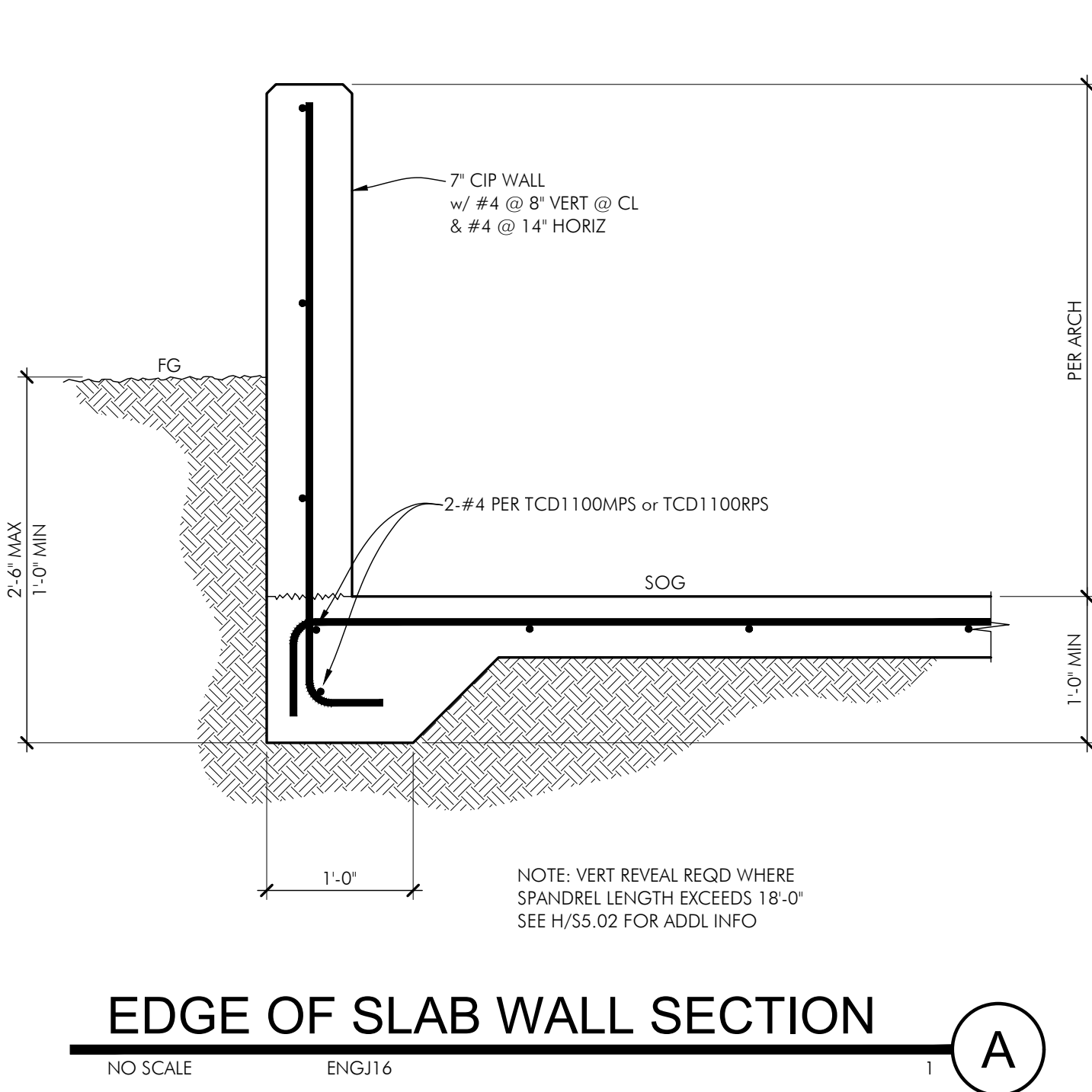
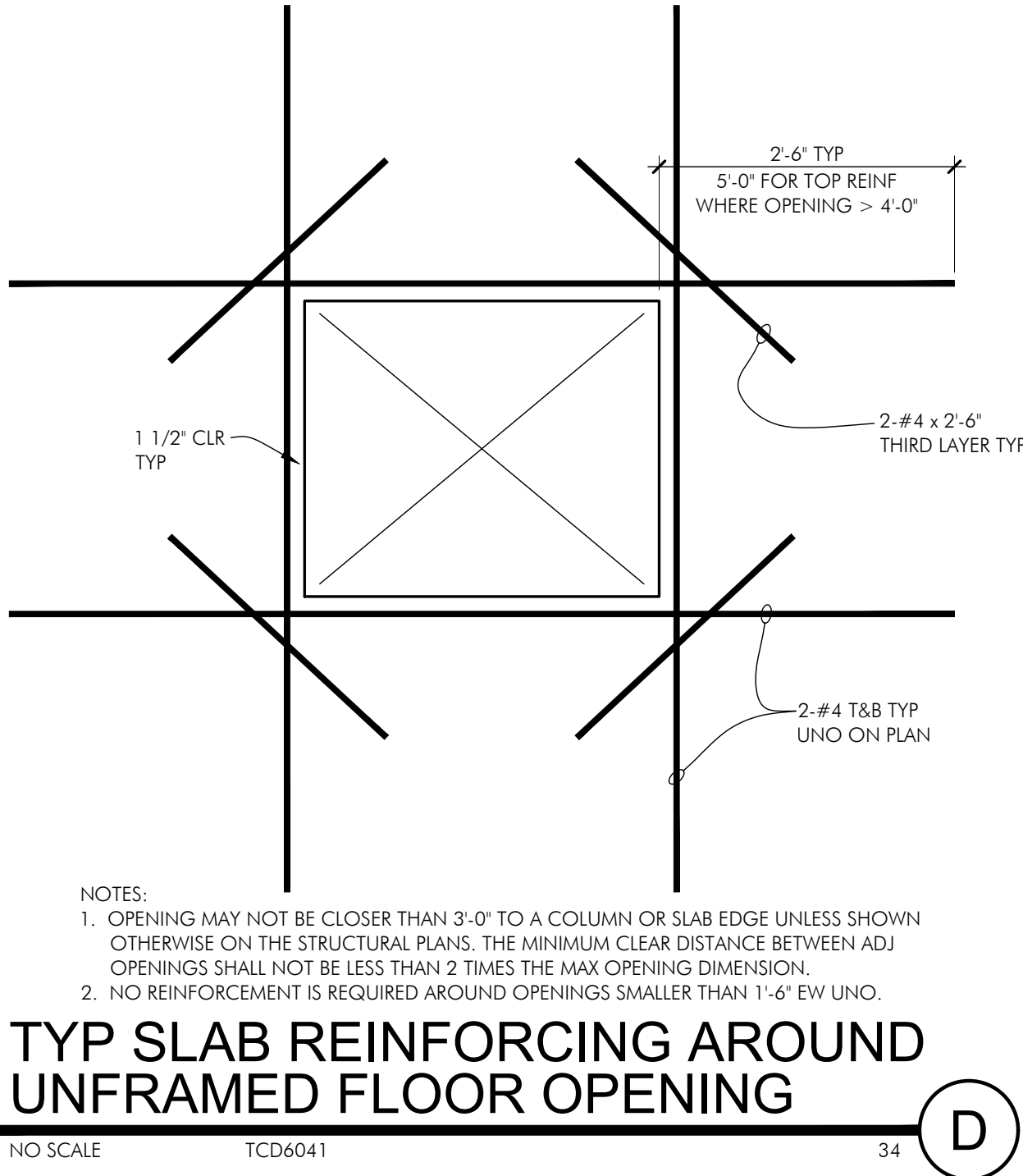
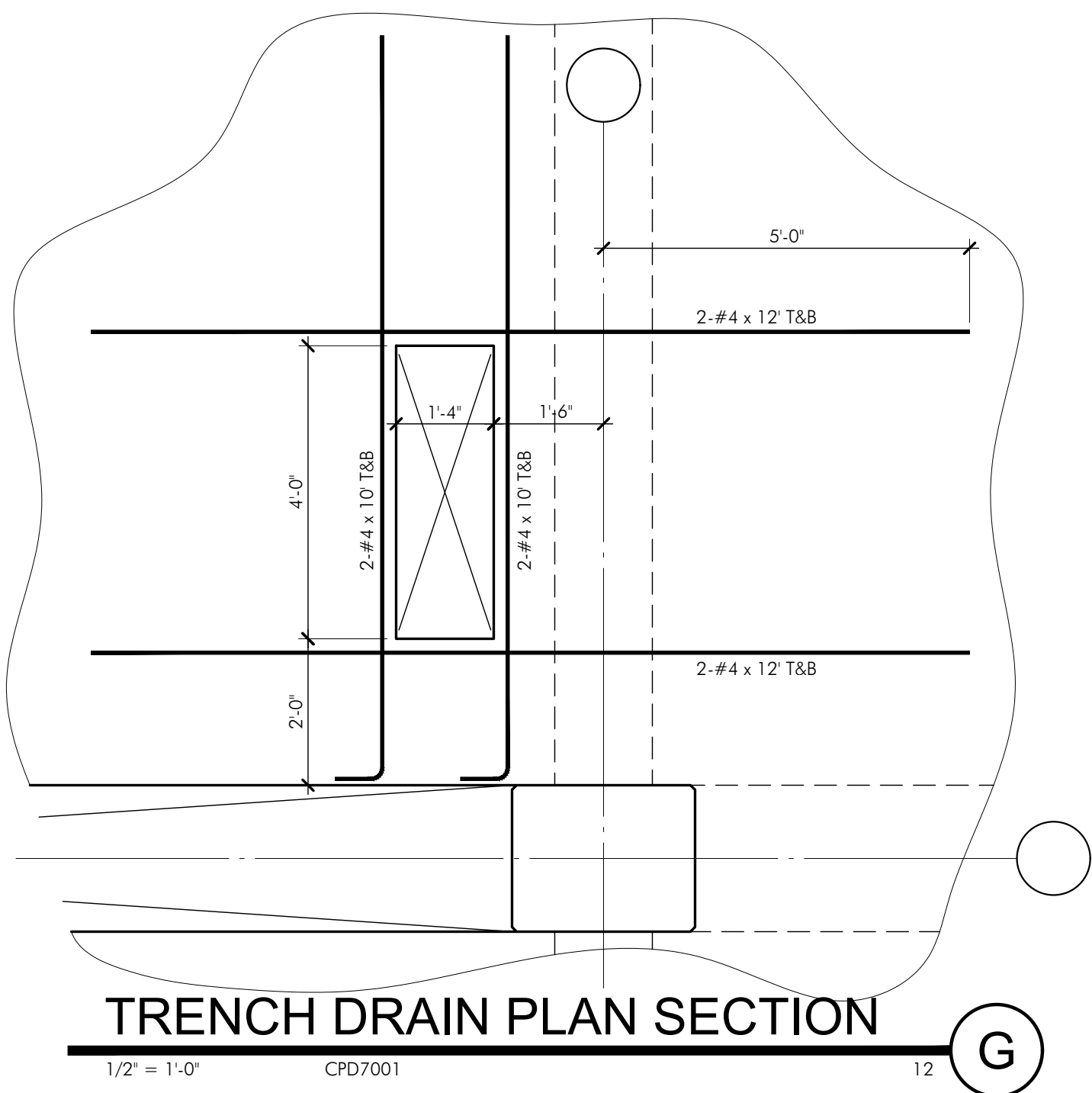
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S5.01

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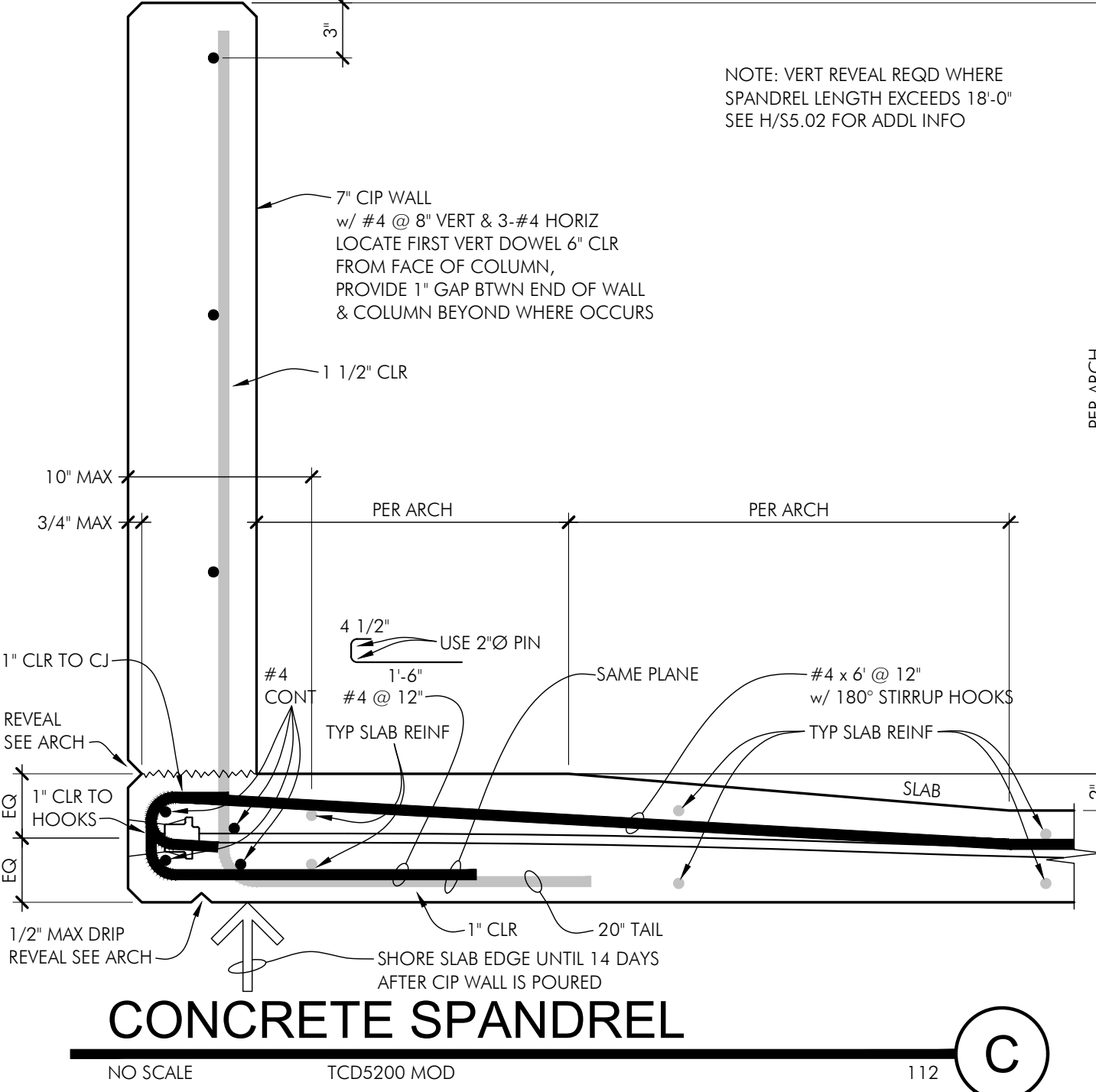
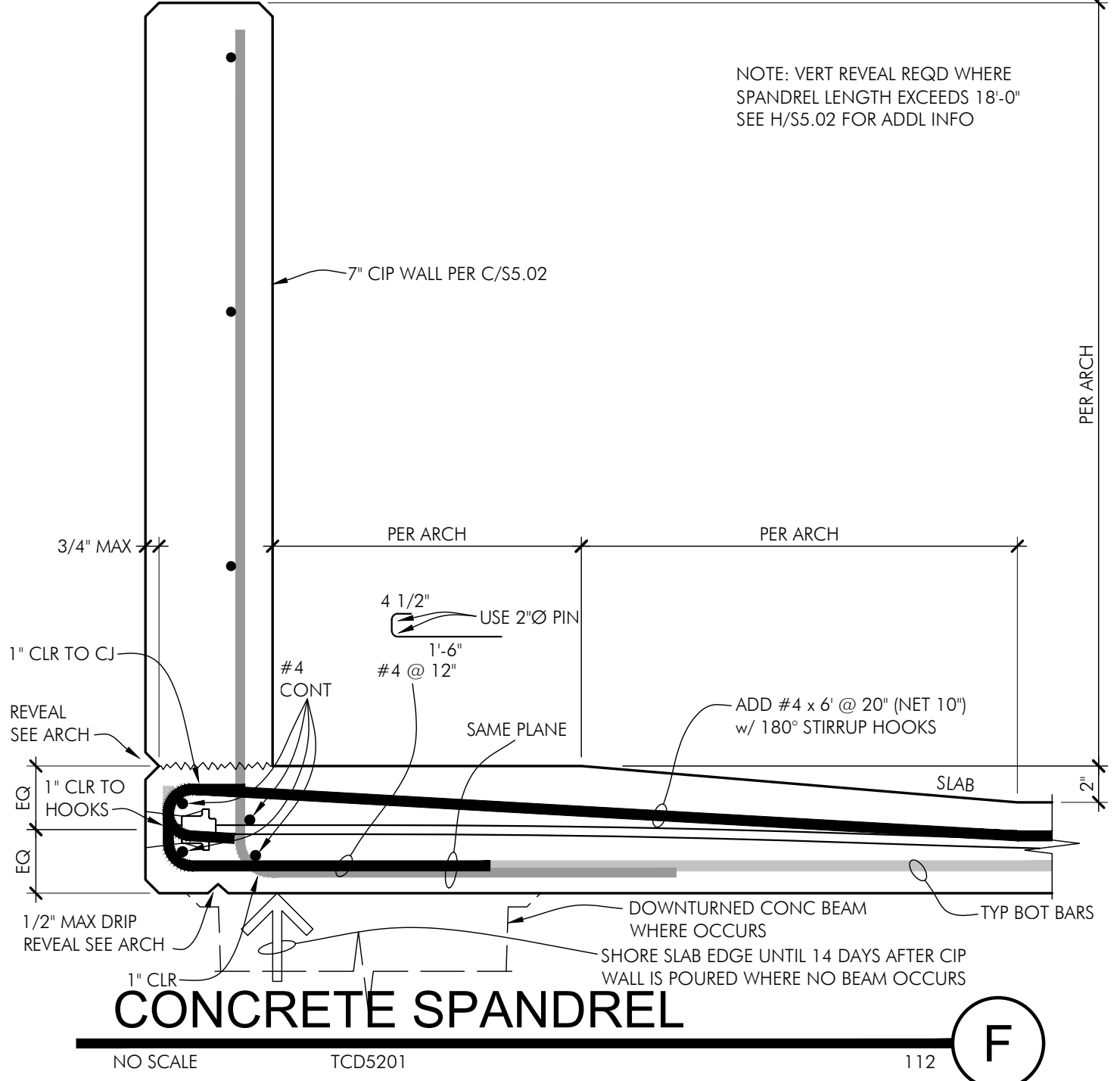
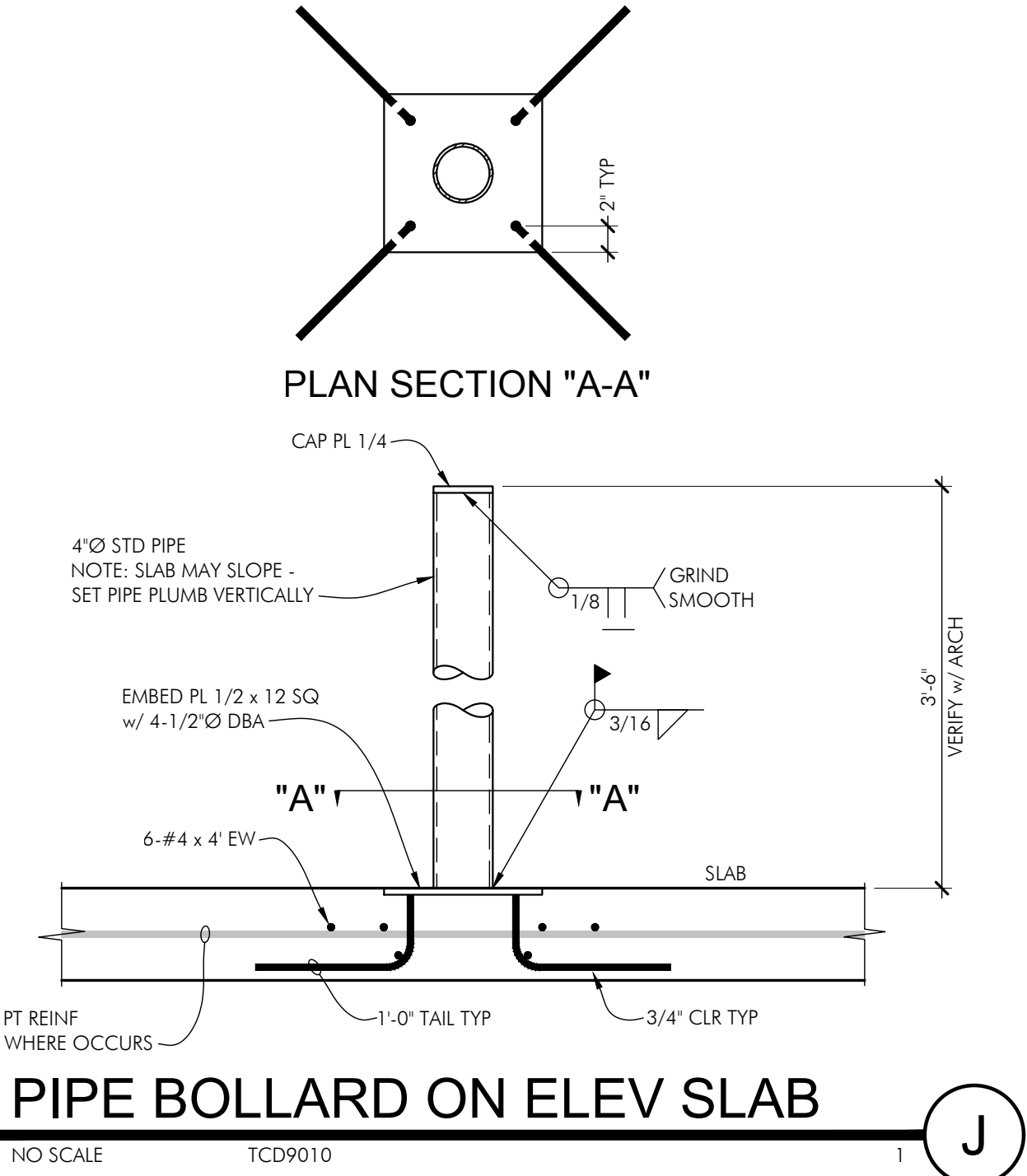
TRENCH DRAIN PLAN SECTION  
1/2" = 1'-0" CPD7001 12

TYP SLAB REINFORCING AROUND  
UNFRAMED FLOOR OPENING  
NO SCALE TCD6041 34

EDGE OF SLAB WALL SECTION  
NO SCALE ENG16 1

PLAN SECTION  
@ SPANDREL REVEAL  
NO SCALE TCD5210 112

TYPICAL STEEL STAIR STRINGER  
ON SLAB EDGE w/ WASH  
NO SCALE TCD6031 1



PIPE BOLLARD ON ELEV SLAB  
NO SCALE TCD9010 1

CONCRETE SPANDREL  
NO SCALE TCD5201 112

CONCRETE SPANDREL  
NO SCALE TCD5200 MOD 112



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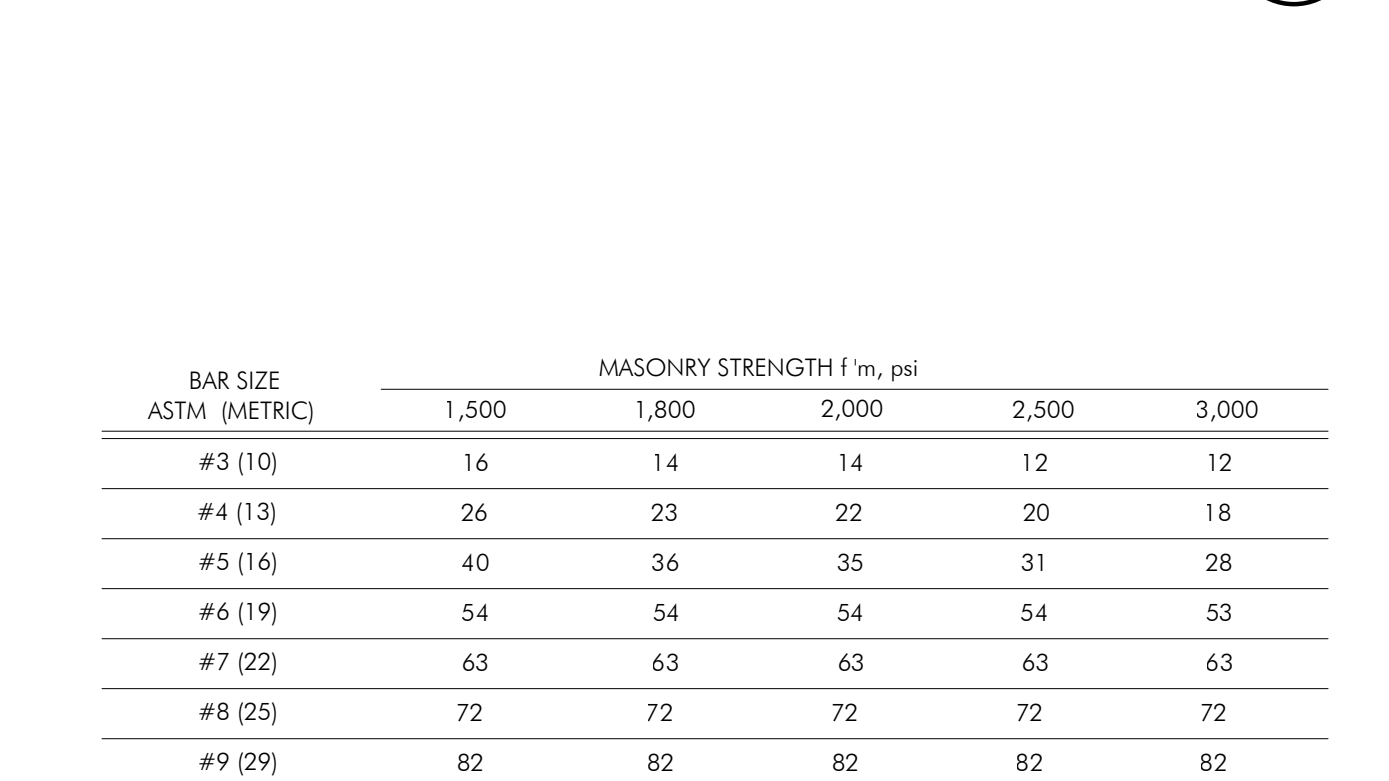
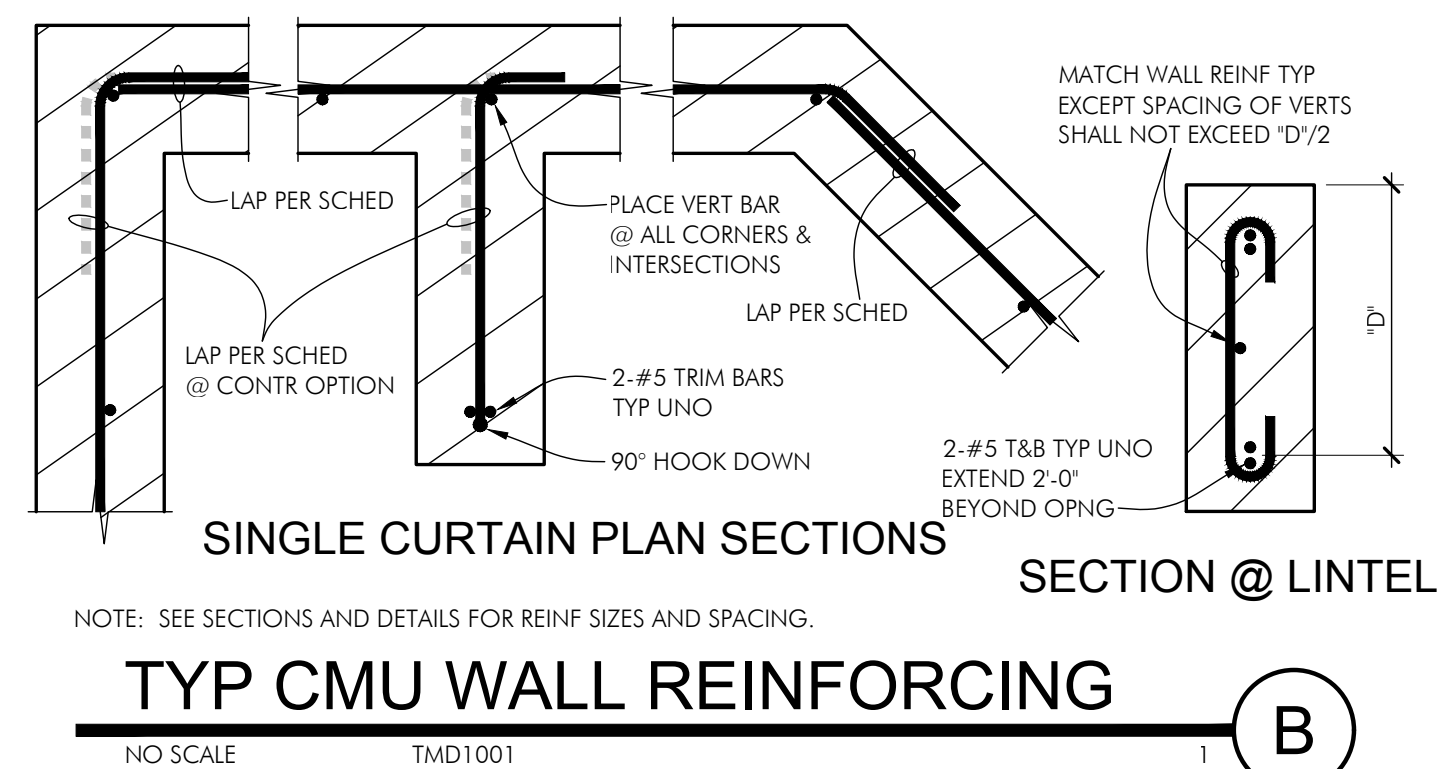
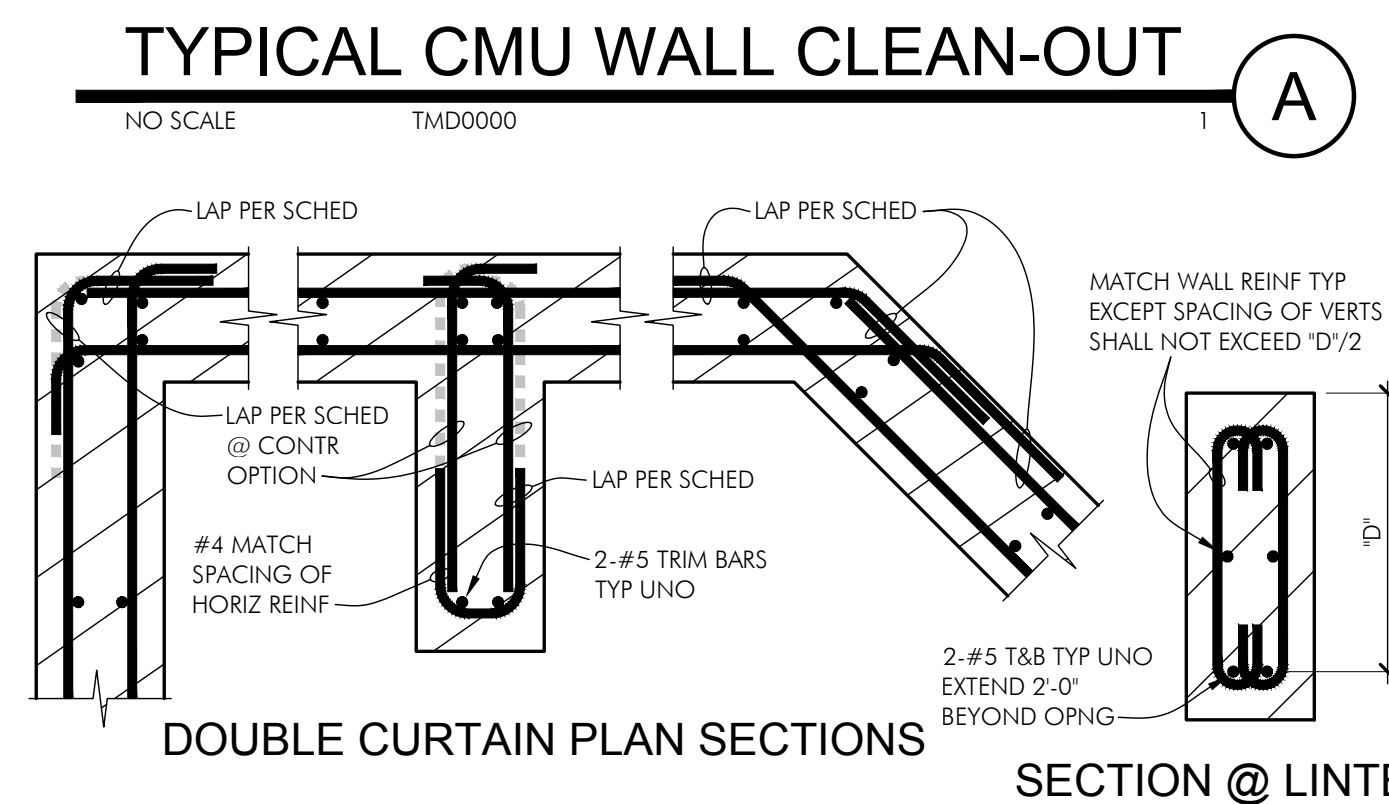
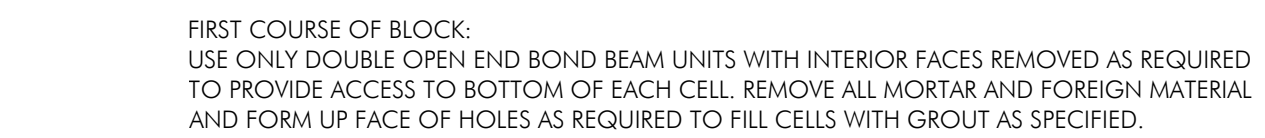
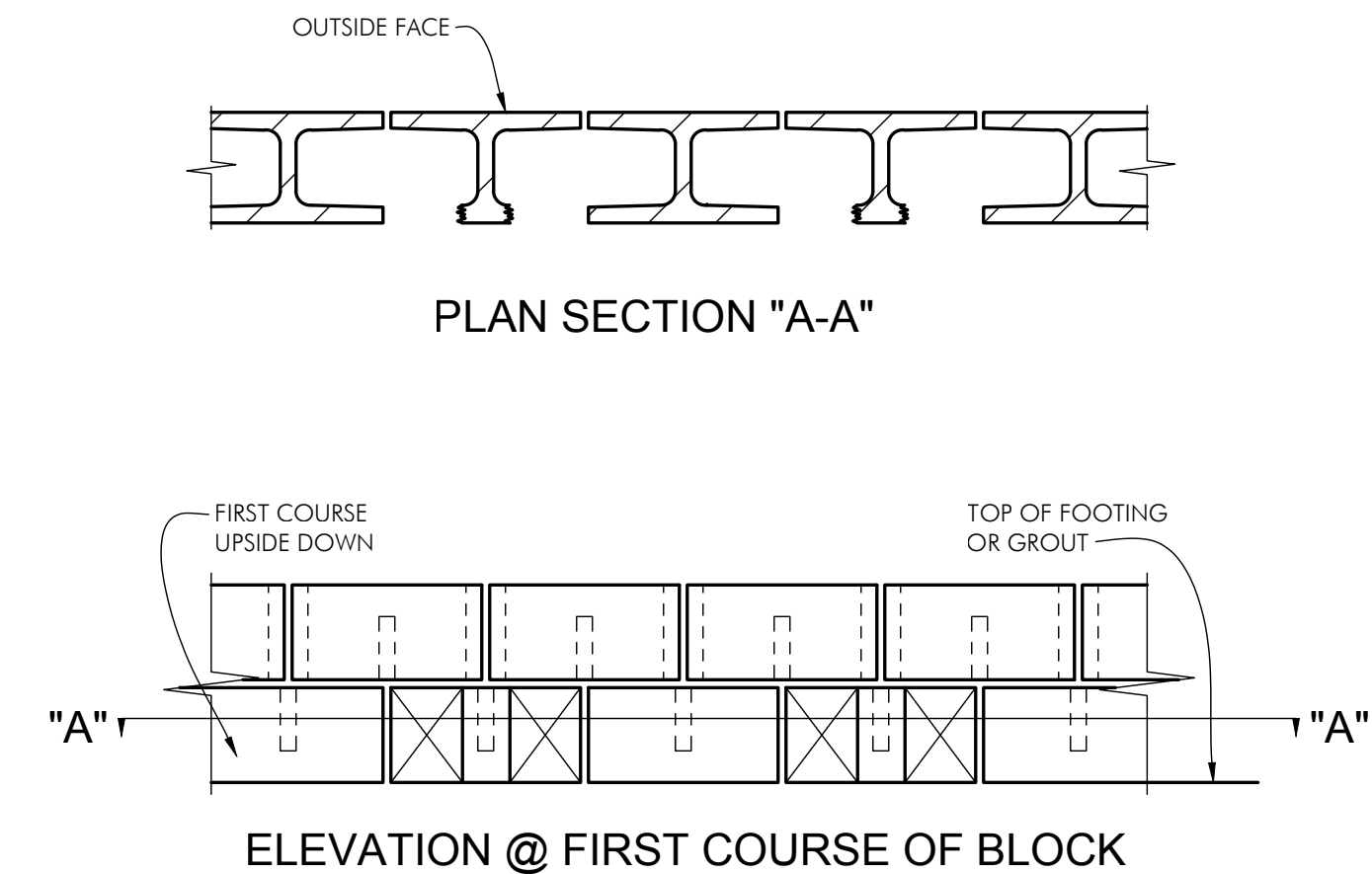
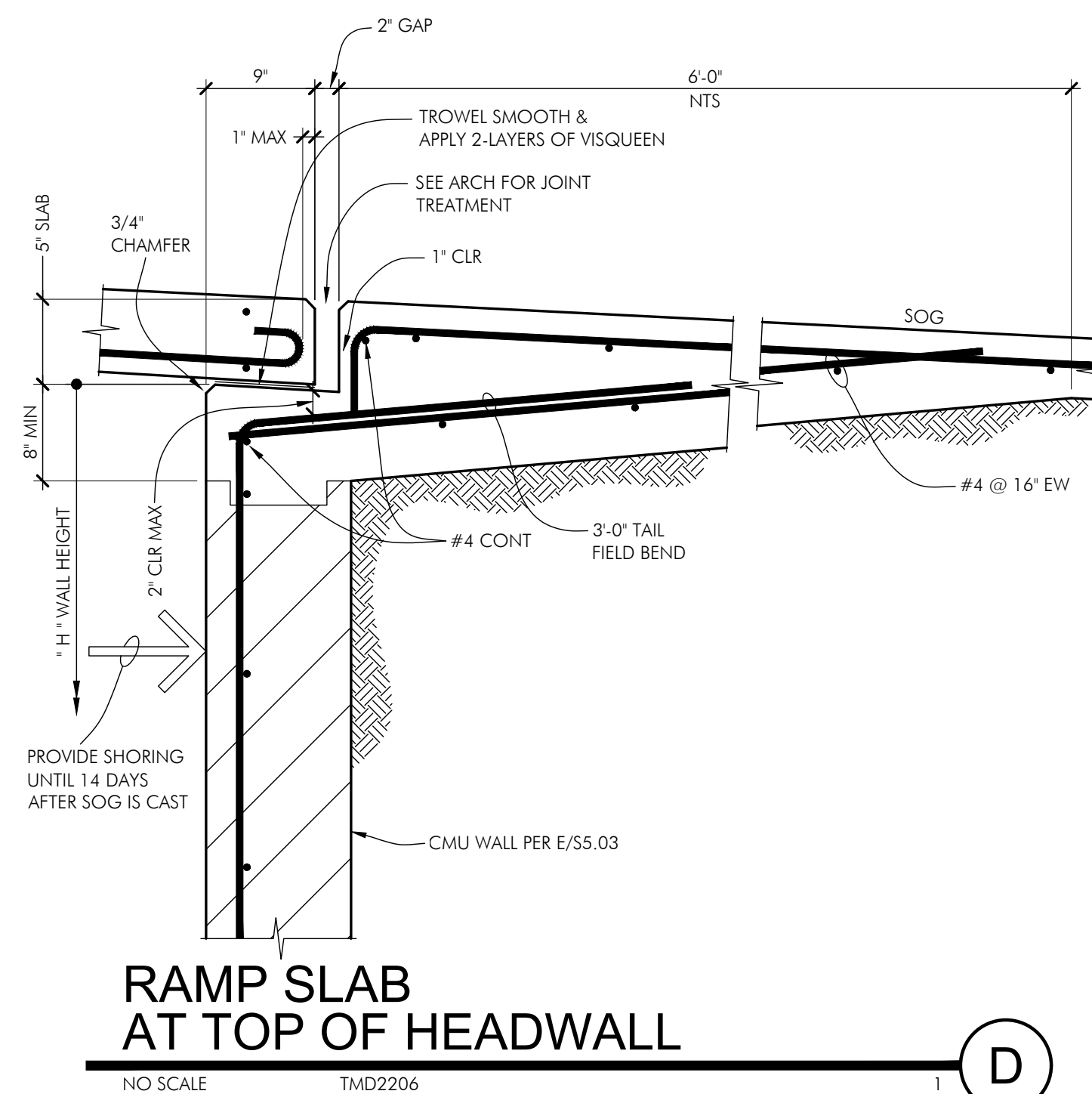
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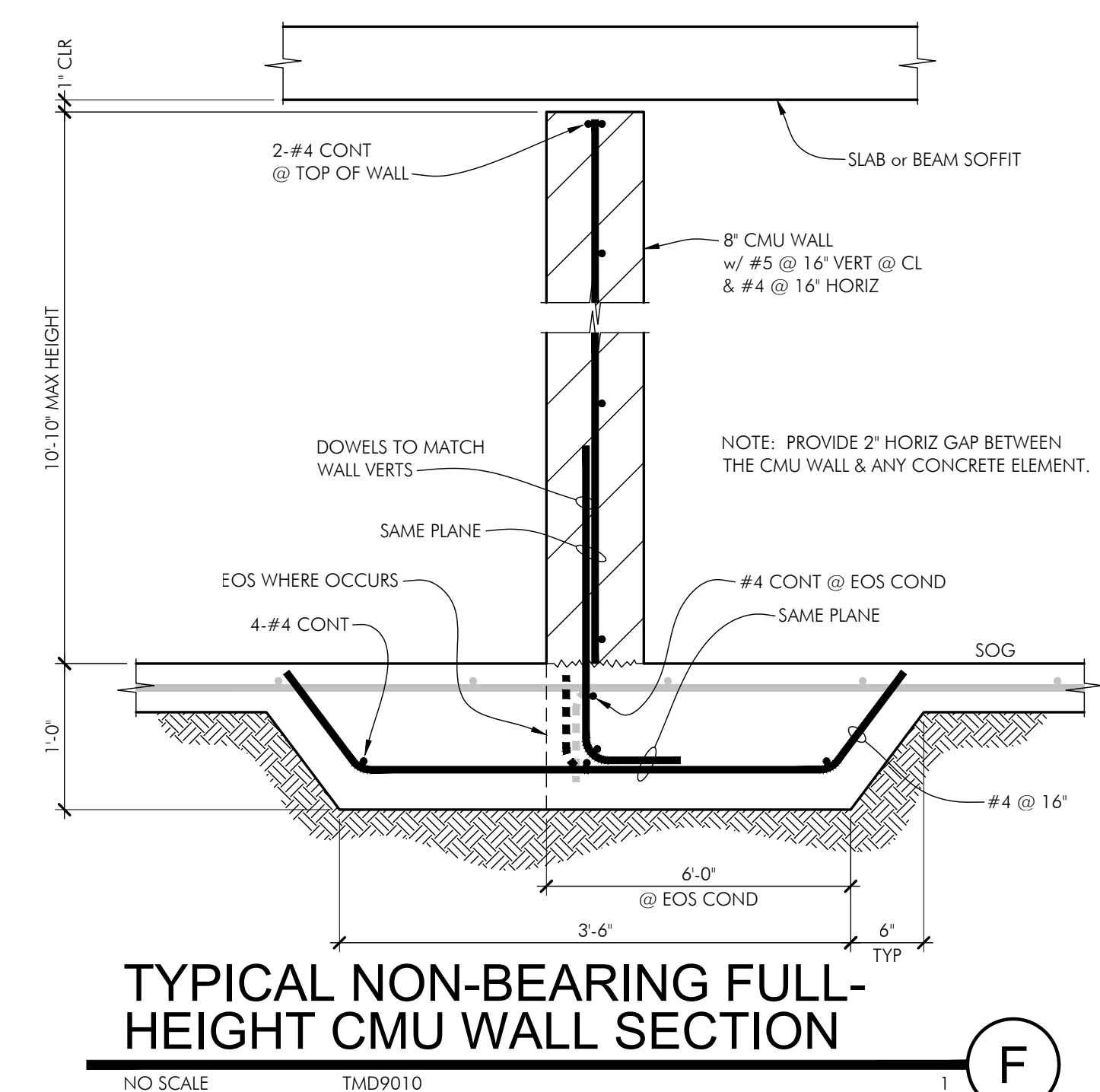
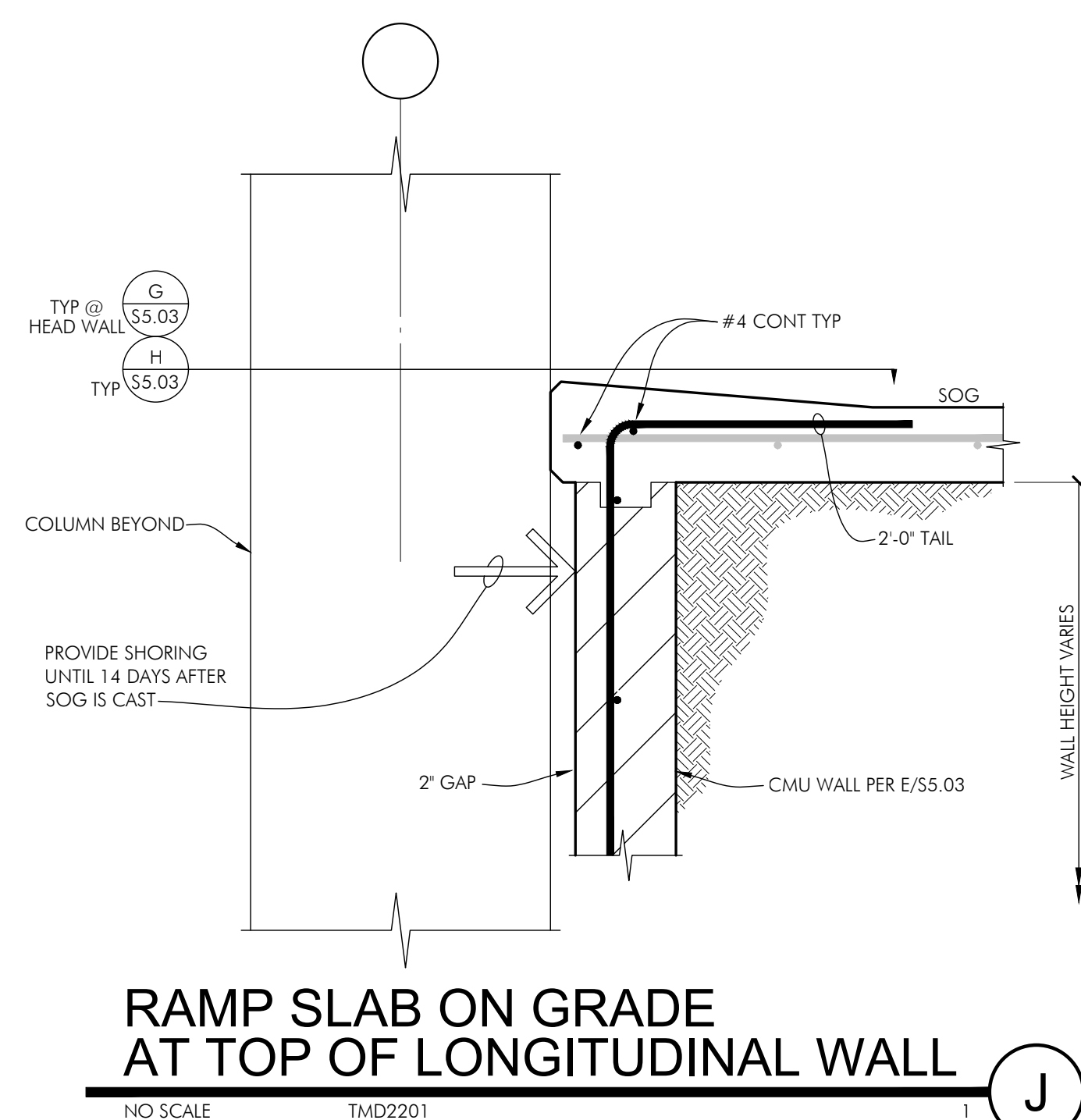
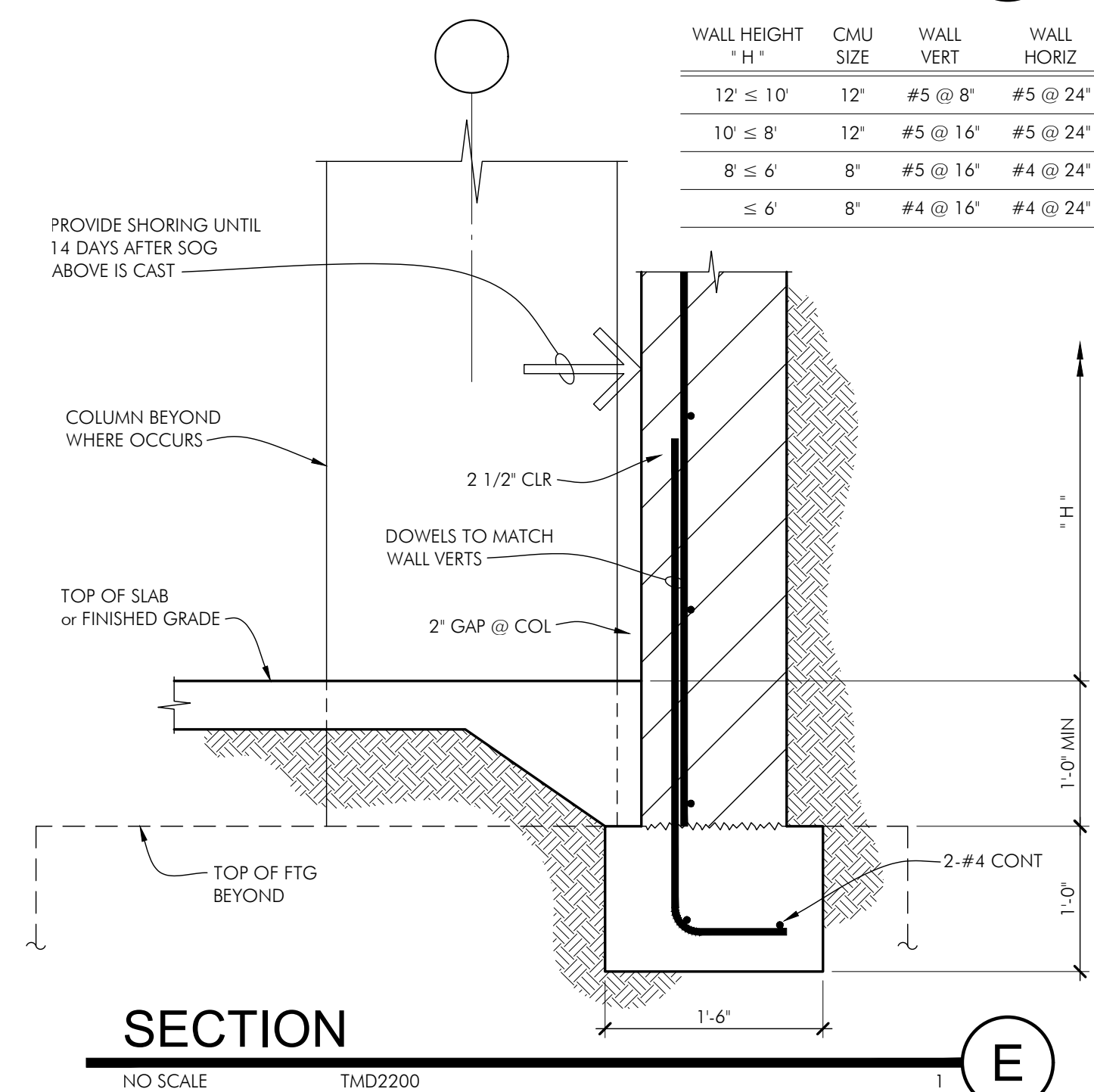
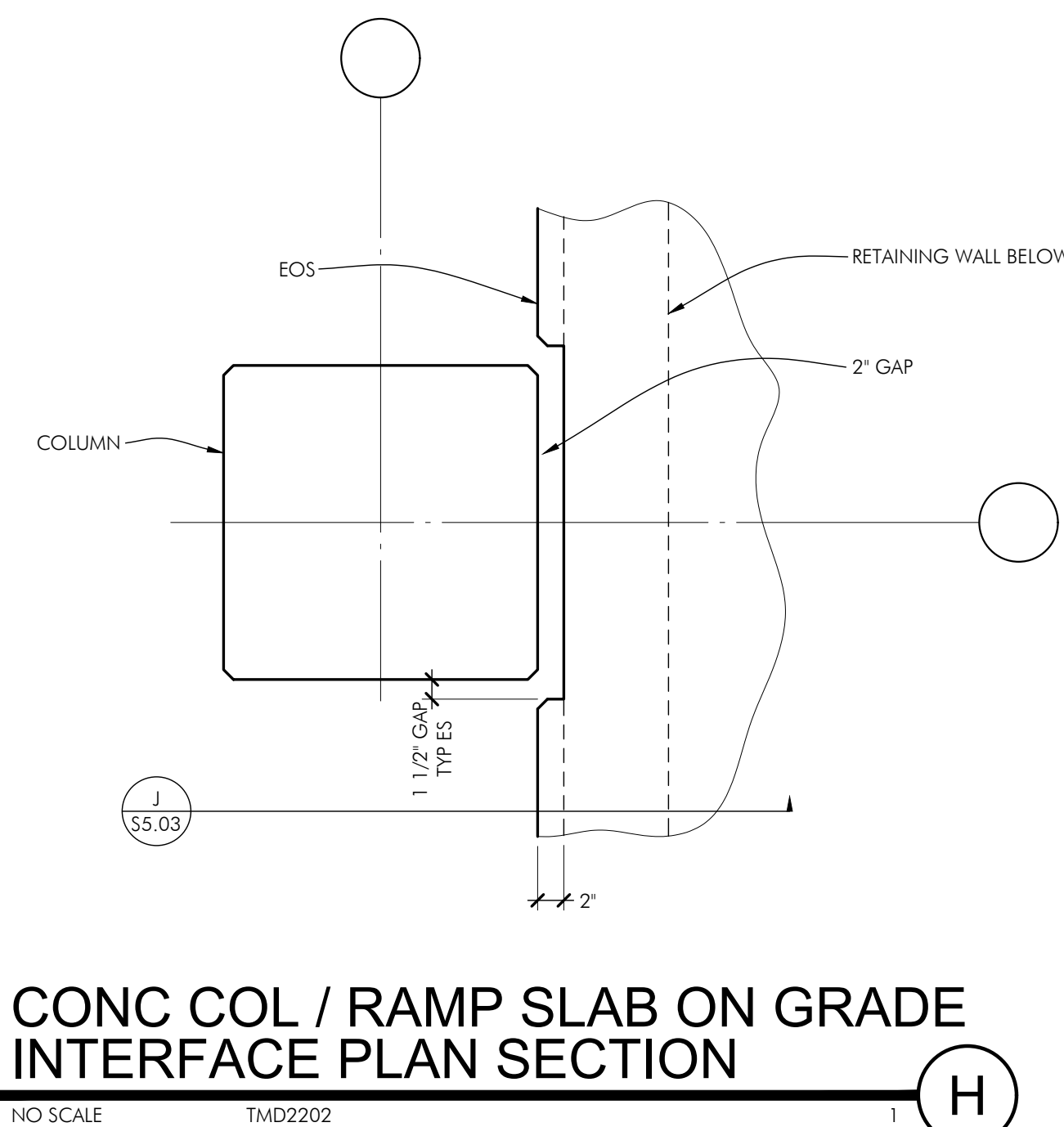
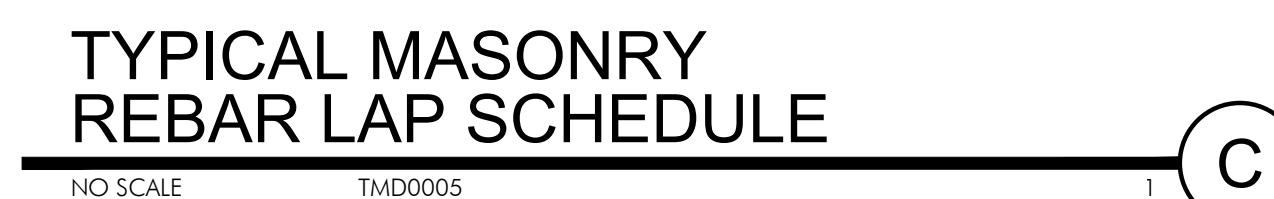




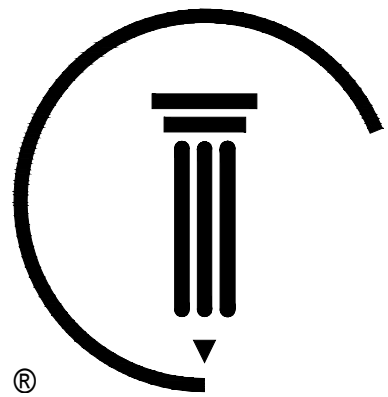
BAR SIZE ASTM (METRIC)	MASONRY STRENGTH $f_m$ , psi				
	1,500	1,800	2,000	2,500	3,000
#3 (10)	16	14	14	12	12
#4 (13)	26	23	22	20	18
#5 (16)	40	36	35	31	28
#6 (19)	54	54	54	54	53
#7 (22)	63	63	63	63	63
#8 (25)	72	72	72	72	72
#9 (29)	82	82	82	82	82

NOTES:

1. LAP LENGTHS SHOWN ARE IN INCHES.
2. WHEN BARS OF DIFFERENT DIAMETERS ARE LAPPED, USE LAP LENGTH OF SMALLER BAR.
3. LAP LENGTHS SHOWN ARE BASED ON MINIMUM CLEAR COVER OF 2".








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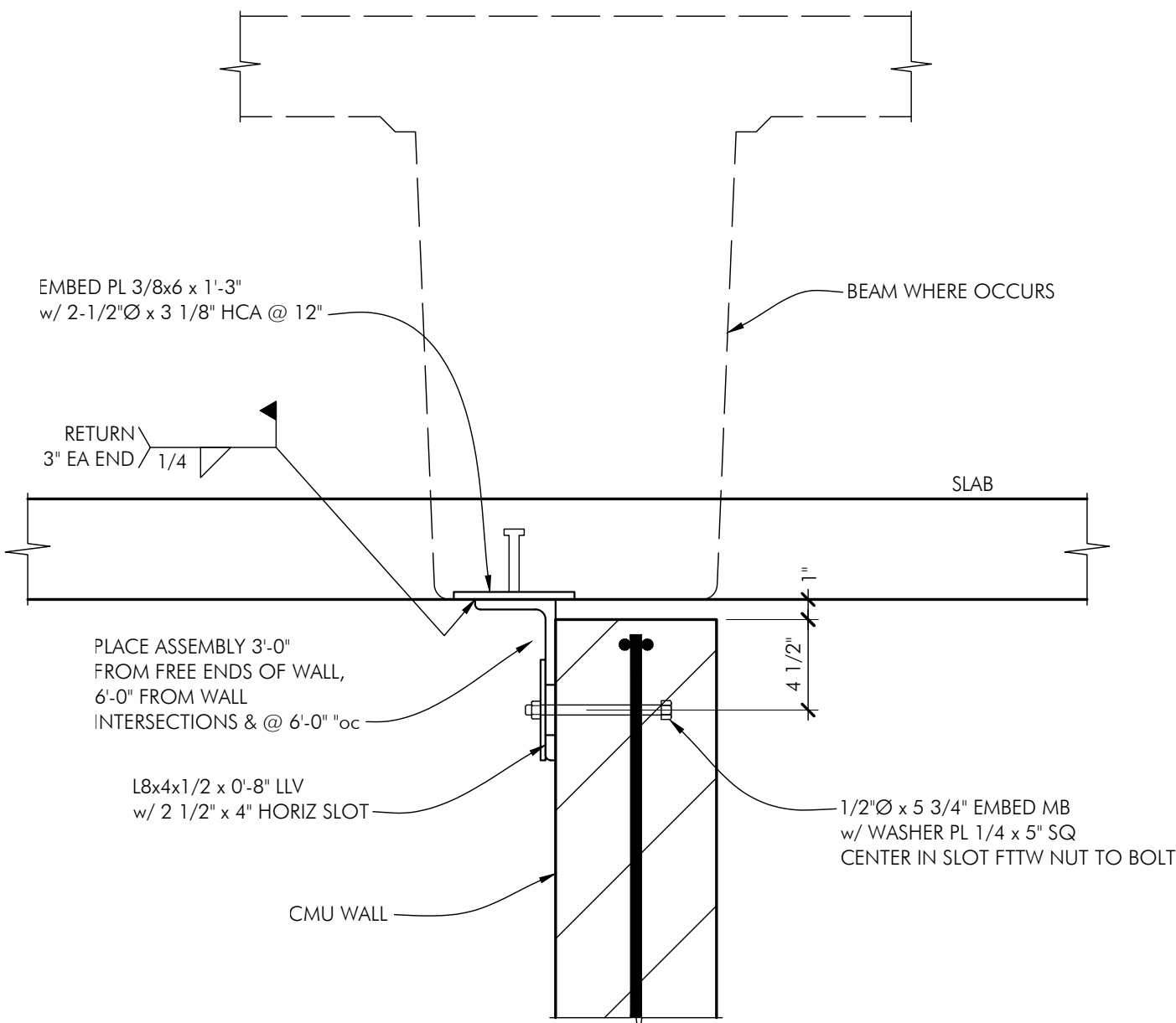
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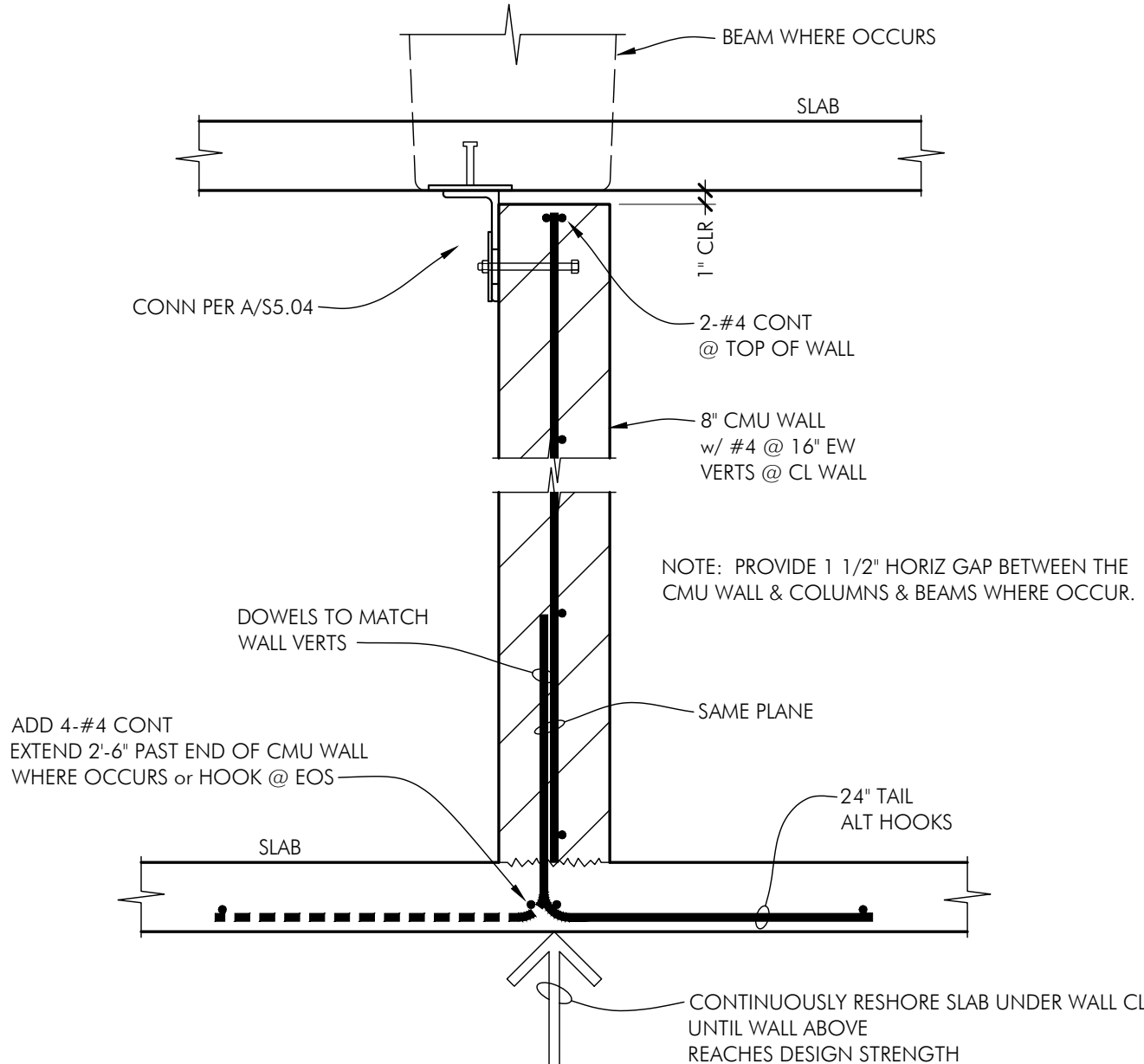
**S5.04**

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### TOP OF NON-BEARING CMU WALL BRACE

NO SCALE ENG02 112

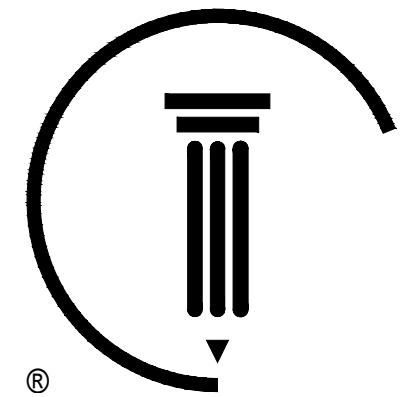


### TYPICAL NON-BEARING FULL-HEIGHT CMU WALL

NO SCALE TMD9020 1

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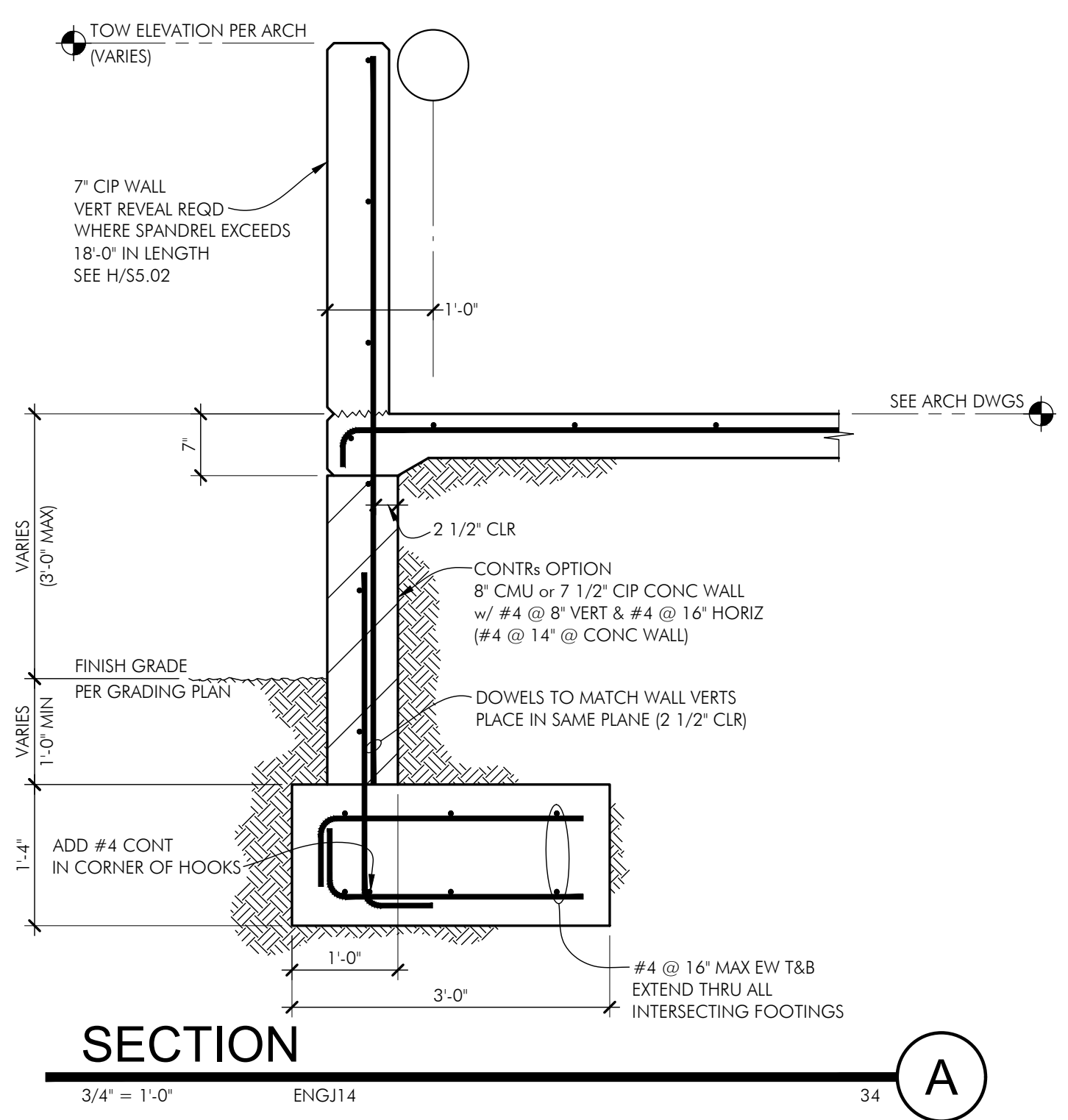
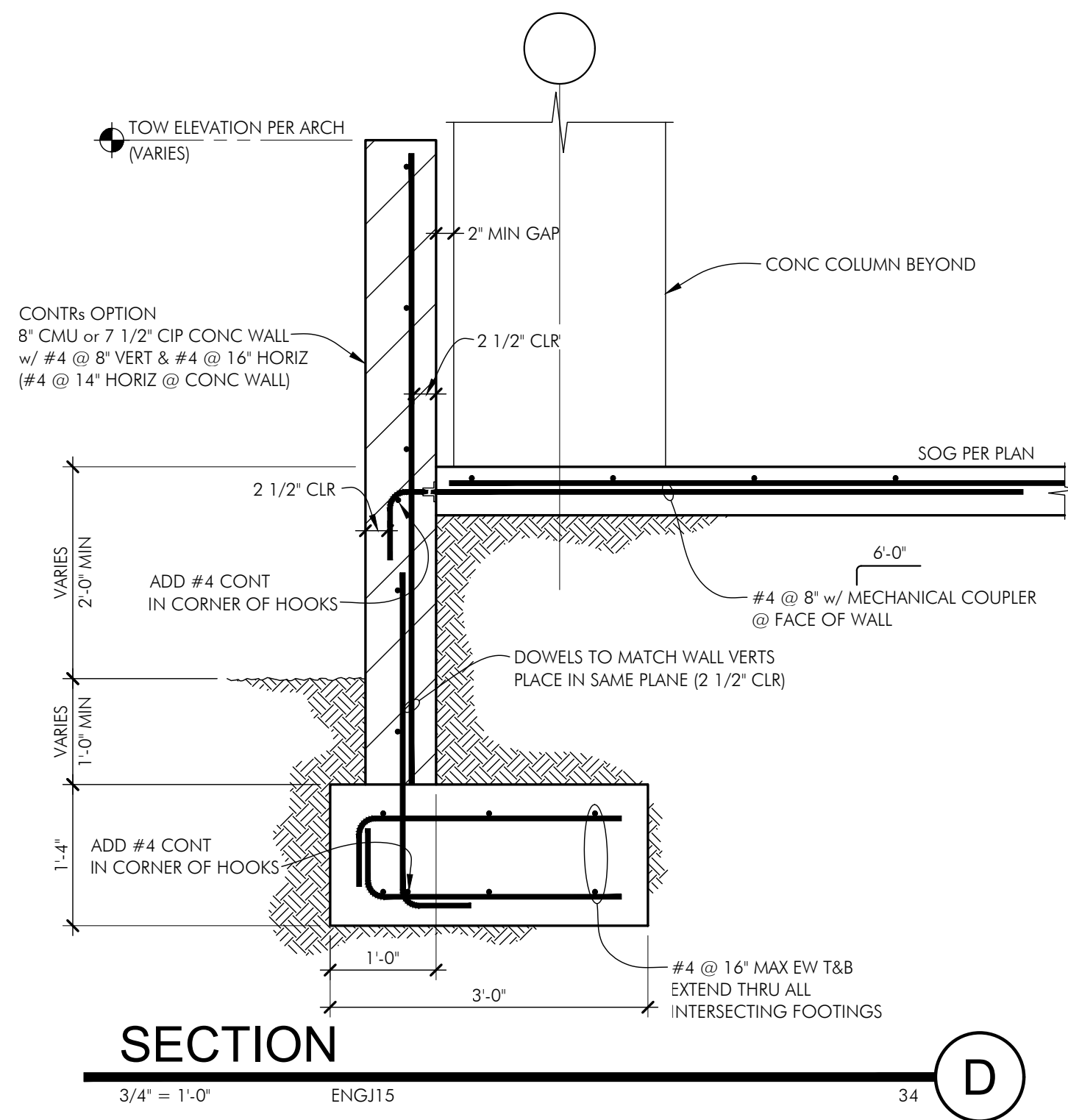
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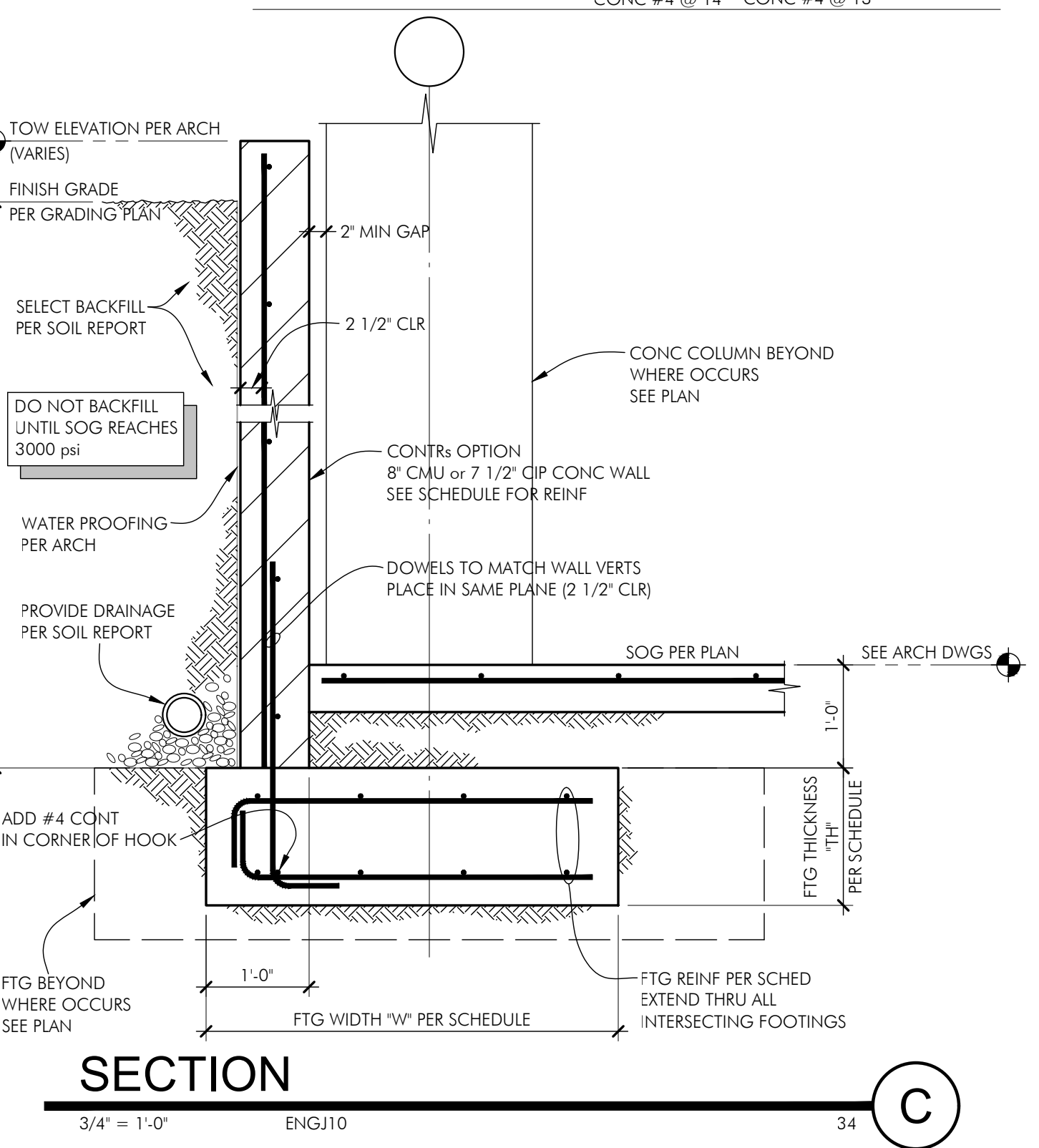
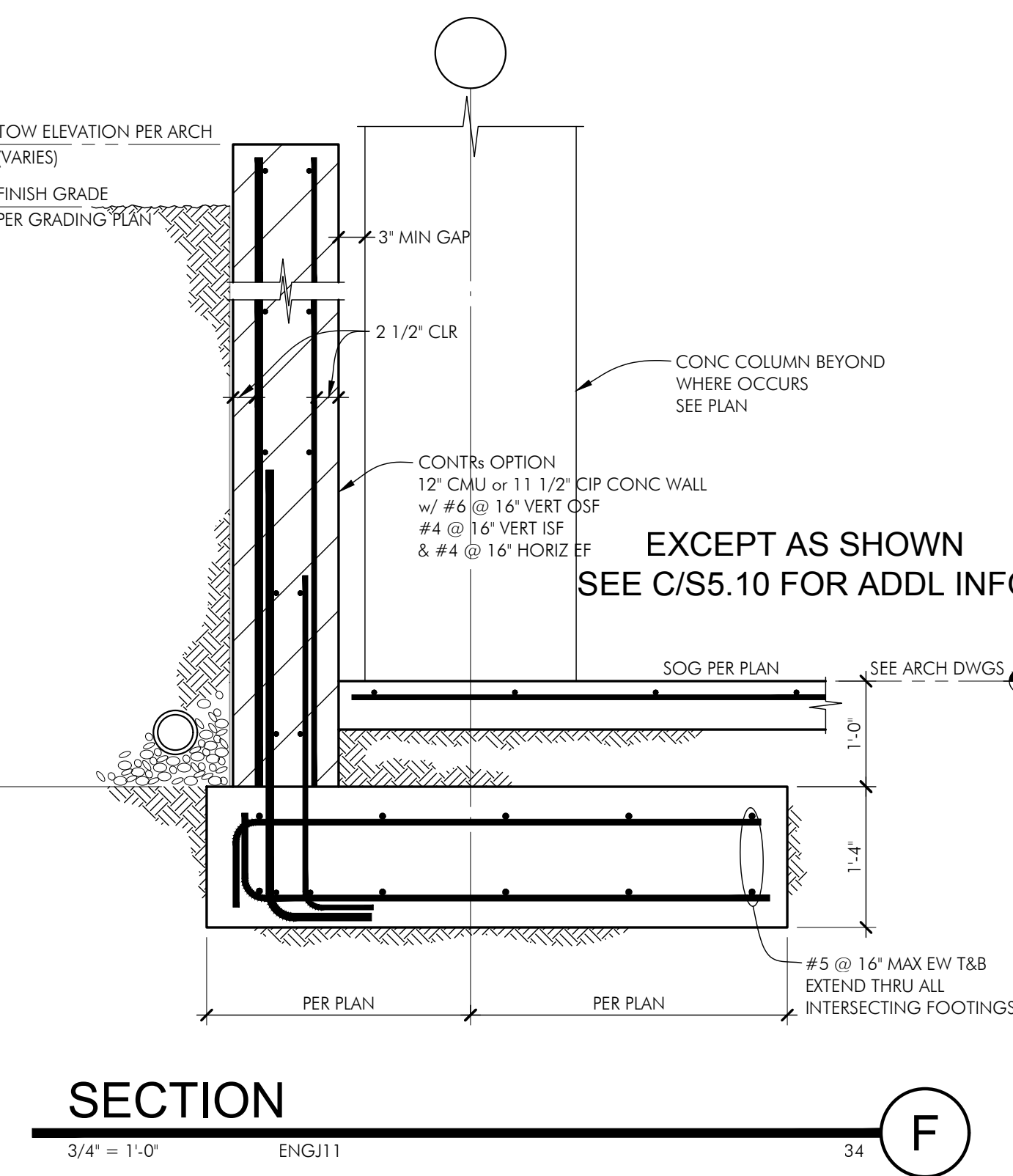
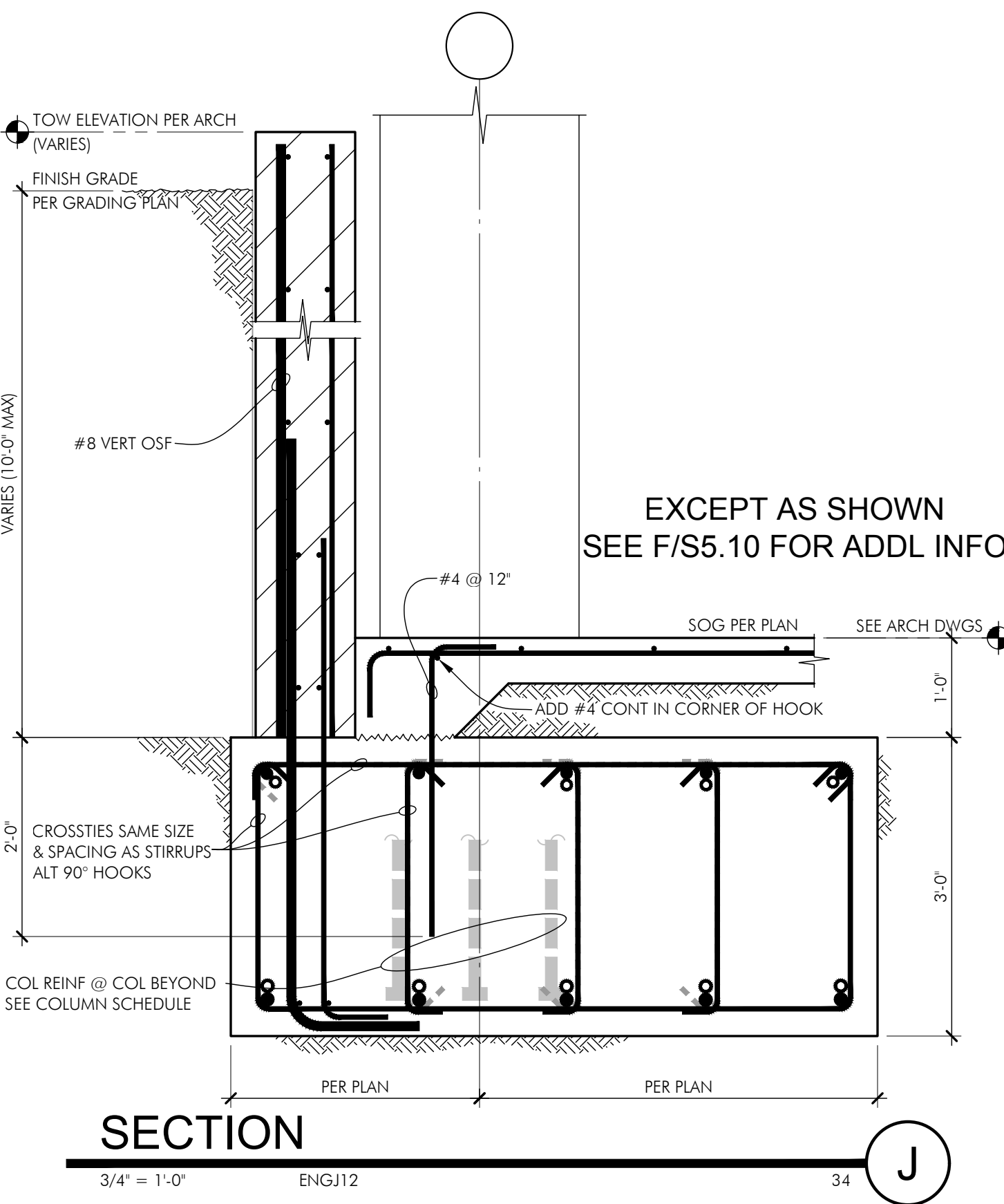
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MAXIMUM RETAINED EARTH HEIGHT "H" MAX	FOOTING WIDTH "W" "	FOOTING THICKNESS "B" "	WALL REINF VERTICAL BARS	WALL REINF HORIZ BARS	FTG REINF EA WAY T&B
7'-0"	4'-0"	1'-4"	#6 @ 16"	CMU #4 @ 16" CONC #4 @ 13"	#4 @ 12" MAX
6'-0"	4'-0"	1'-0"	#5 @ 16"	CMU #4 @ 16" CONC #4 @ 13"	#4 @ 16" MAX
5'-0"	3'-0"	1'-0"	CMU #4 @ 16" CONC #4 @ 14"	CMU #4 @ 16" CONC #4 @ 13"	#4 @ 16" MAX



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