

FOUNDATION AND SLAB ON GRADE:

NOTE: 1
FOOTINGS ARE DESIGNED FOR A BEARING CAPACITY OF 2000 PSF BASED ON THE GEOTECHNICAL REPORT PREPARED BY HILLIS-CARNES ENGINEERING ASSOCIATES, INC. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL 1'-0" BELOW ORIGINAL GRADE OR ON STRUCTURALLY COMPACTED FILL. BOTTOM OF EXTERIOR FOOTINGS SHALL BE 2'-0" BELOW FINISHED GRADE. A GEOTECHNICAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION SHALL VERIFY THE SOIL BEARING CAPACITY IN THE FIELD. IF FOUND TO BE LESS THAN THE REQUIRED BEARING PRESSURE, THE FOOTINGS WILL HAVE TO BE REDESIGNED.

NOTE: 2
ALL FILL UNDER SLABS ON GRADE SHALL BE COARSE GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM WATER CONTENT. SLABS ON-GRADE SHALL BE POURED IN ACCORDANCE WITH ACI 302.1R, "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (LATEST LOCAL APPROVED EDITION). SAW CUT CONTROL JOISTS SUCH THAT TOTAL AREA BOUNDED BY SAW CUTS AND FORMED EDGES DOES NOT EXCEED 400 FT² AND LONG SIDE TO SHORT SIDE DOES NOT EXCEED 1.5:1 RATIO. PROVIDE #4 X3'-0" LONG BAR AT MID-DEPTH OF SLAB AT ALL RE-ENTRANT CORNERS AND COLUMN ISOLATION JOINT CORNERS THAT DO NOT HAVE A CONTROL/CONSTRUCTION JOINT TERMINATING.

CONCRETE:

NOTE: 1
ALL CONCRETE, EXCEPT AS NOTED, SHALL BE F_c'=3000 PSI NORMAL WEIGHT CONCRETE AT 28 DAYS. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE F_c'=5000 PSI NORMAL WEIGHT CONCRETE AND SHALL BE AIR ENTRAINED FOR EXPOSURE CLASS F2 PER ACI 318. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION).

NOTE: 2
ALL REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM DESIGNATION A615 (LATEST LOCAL APPROVED EDITION), GRADE 60. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI SP-66, "ACI DETAILING MANUAL" (LATEST LOCAL APPROVED EDITION).

NOTE: 3
ALL SPLICES IN REINFORCING SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (LATEST LOCAL APPROVED EDITION) EXCEPT AS OTHERWISE NOTED.

NOTE: 4
WELDED WIRE FABRIC (W.W.F.) SHALL HAVE ENDS LAPPED ONE FULL MESE.

NOTE: 5
UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS, PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS:

CAST AGAINST EARTH - 3"
EXPOSED TO EARTH OR WEATHER:

NO. 4 AND LARGER BARS - 2"
NO. 5 AND SMALLER BARS - 1 1/2"

NOT EXPOSED TO EARTH OR WEATHER:

SLABS AND WALLS - 3/4"
BEAMS AND COLUMNS - 1 1/2" TO TIES, STIRRUPS OR SPIRALS

NOTE: 6
THE CONTRACTOR MUST SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH ACI 318 (LATEST LOCAL APPROVED EDITION). SUCH DESIGN MIX SHALL BE ACCOMPANIED BY THE APPROPRIATE GRAPHS AND BACKGROUND DATA. CONCRETE DESIGN MIX SHALL INDICATE 7 AND 28 DAY STRENGTHS, CEMENT CONTENT, WATER-CEMENT RATIO, FINE AND COARSE AGGREGATES AND ADMIXTURES FOR EACH DESIGN STRENGTH. THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN THE SPECIFIED WATER CONTENT IS STRICTLY PROHIBITED.

NOTE: 7
ALL CONCRETE WORK SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF THE FOLLOWING ACI AND ASTM DOCUMENTS:

- ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE
- ACI-318 CODE
- ACI-214 COMPRESSIVE TEST
- ACI-306 COLD WEATHER
- ACI SP-66 DETAILING FORMWORK
- ACI-347 FORMWORK
- ACI-305 HOT WEATHER
- ACI-211 PROPORTIONS OF CONCRETE
- ACI-304 PLACING CONCRETE
- ASTM C-94 READY-MIX CONCRETE

NOTE: 8
ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST LOCAL APPROVED EDITIONS OF ASTM:

- ASTM C-31 FIELD CYLINDER SPECIMENS
- ASTM C-143 SLUMP TEST
- ASTM C-231 AIR CONTENT (WHEN REQUIRED)
- ASTM C-39 LAB TESTING CYLINDERS
- ASTM C-172 SAMPLING FRESH CONCRETE
- ASTM C-42 HARDENED CORES (WHEN REQUIRED)

TEST RESULTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

NOTE: 9
ALL FORMWORK SHALL BE IN ACCORDANCE WITH ACI 347, "GUIDE TO FORMWORK FOR CONCRETE" (LATEST LOCAL APPROVED EDITION).

NOTE: 10
CONCRETE FORMWORK SHALL NOT BE DISTURBED UNTIL THE CONCRETE HAS HARDENED SUFFICIENTLY TO SUPPORT ITS OWN WEIGHT PLUS SUPERIMPOSED CONSTRUCTION LOADS. AS A MINIMUM, FORMS MUST REMAIN IN PLACE FOR THE LENGTH OF TIME RECOMMENDED BY ACI 347, "GUIDE TO FORMWORK FOR CONCRETE" (LATEST LOCAL APPROVED EDITION). FORM REMOVAL REQUIRES SMALL TANEOUS RESHORING. RESHORING SHALL REMAIN IN PLACE UNTIL THE CONCRETE HAS ATTAINED THE SPECIFIED DESIGN STRENGTH. IN LIEU OF THE RECOMMENDATIONS ESTABLISHED IN ACI 347, THE CONTRACTOR MAY TEST FIELD CURED CYLINDERS TO CONFIRM EARLY CONCRETE DESIGN STRENGTH. THE CONTRACTOR SHALL HAVE A FORMWORK PLAN AT THE SITE SHOWING THE SIZE AND STRENGTH OF FORMWORK, SEQUENCE OF CONSTRUCTION, AND A TEMPERATURE DEPENDENT FORMWORK REMOVAL AND RESHORING PROCEDURE. THE PLANS SHALL BE PREPARED AND SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

MASONRY:

NOTE: 1
CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATION C90. CONCRETE MASONRY SHALL BE SAMPLED AND TESTED BY THE MASONRY SUPPLIER ACCORDING TO ASTM C140. ALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO TMS 402/ACI 530/ASCE 5, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION) AND TMS 402/ACI 530/ASCE 6, "SPECIFICATION FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION).

NOTE: 2
UNLESS OTHERWISE NOTED, CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI ON THE NET AREA. ALL BRICK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI ON THE NET AREA.

NOTE: 3
ALL MORTAR SHALL CONFORM TO ASTM C270. MORTAR TO BE USED SHALL BE SAMPLED AND TESTED BY THE BRICK AND MASONRY SUPPLIERS ACCORDING TO ASTM C780 AND RESULTS SUBMITTED TO THE ENGINEER FOR APPROVAL. MORTAR SHALL BE PORTLAND CEMENT/LIME MORTAR TYPE "S" AS A MINIMUM.

NOTE: 4
UNLESS NOTED OTHERWISE, PROVIDE 8" MINIMUM OF BRICK OR 100% SOLID MASONRY CONTINUOUS BELOW ALL JOISTS OR SLAB BEARING LINES. PROVIDE 16" MINIMUM BRICK OR 100% SOLID MASONRY BELOW ALL LINTELS AND/OR MINOR WALL BEARING BEAMS.

NOTE: 5
LOOSE LINTELS FOR OPENINGS IN MASONRY BEARING WALLS SHALL BE AS FOLLOWS FOR EACH 4" WIDTH:

- 0'-0" TO 3'-0" 3/12 X3 1/2 X5/16 ANGLE
- 3'-1" TO 5'-0" 4 X3 1/2 X5/16 ANGLE
- 5'-1" TO 6'-0" 5 X3 1/2 X3/8 ANGLE
- 6'-1" TO 8'-0" 6 X3 1/2 X3/8 ANGLE

ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING.

NOTE: 6
LINTELS OVER OPENINGS 10'-0" WIDE OR LESS IN INTERIOR NON-BEARING MASONRY PARTITIONS NOT OTHERWISE SPECIFIED SHALL BE PRECAST LIGHTWEIGHT CONCRETE LINTELS REINFORCED WITH 1-#5 BAR TOP AND BOTTOM FOR EACH 4" WIDTH.

NOTE: 7
ALL SOLID CMU SHALL BE 100% SOLID BLOCK OR HOLLOW BLOCK WITH CELLS FILLED 100% SOLID WITH F_c'=3000 PSI COARSE AGGREGATE GROUT CONFORMING TO ASTM C476. GROUT SHALL BE PLACED IN POUR HEIGHTS NOT TO EXCEED 4'-0" AS CMU CONSTRUCTION PROGRESSES. THE WEBS OF THE MASONRY UNITS SHALL BE FULLY MORTARED AROUND ALL GROUTED CELLS.

NOTE: 8
ALL REINFORCED CELLS IN HOLLOW BLOCK SHALL BE GROUTED 100% SOLID PER NOTE ABOVE.

NOTE: 9
DOWELS SHALL BE LAPPED 64 BAR DIAMETERS WITH VERTICAL REINFORCING BARS.

NOTE: 10
ALL SPLICES IN REINFORCING STEEL FOR MASONRY WALLS SHALL AS FOLLOWS UNLESS NOTED OTHERWISE:

- #4 BAR ---- 2'-8"
- #5 BAR ---- 3'-4"
- #6 BAR ---- 4'-0"

NOTE: 12
IN ADDITION TO REINFORCING STEEL NOTED ON PLANS, SCHEDULES AND SECTIONS, PROVIDE VERTICAL BARS OF SAME SIZE WITHIN 8" OF EACH SIDE OF WALL CONTROL JOINTS, WITHIN 8" OF THE ENDS OF WALLS, WITHIN 16" OF EACH SIDE OF OPENINGS AND AT ALL CORNERS.

NOTE: 13
REINFORCING BAR POSITIONERS SHALL BE USED TO HOLD BARS IN PROPER LOCATION. POSITIONERS SHALL BE PLACED AT A MAXIMUM VERTICAL SPACING OF 48" c.c.

NOTE: 14
ALL 1/2" CMU NON-BEARING WALLS SHALL BE DOWELED TO THE SUPPORTING SLAB WITH #4 AT 48" c.c. UNLESS NOTED OTHERWISE.

NOTE: 15
ALL MASONRY ANCHORS SHALL BE INSTALLED IN MASONRY THAT HAS BEEN GROUTED SOLID A MINIMUM OF 8" ABOVE AND BELOW THE ANCHOR AND A MINIMUM OF 8" EACH SIDE OF THE ANCHOR.

NOTE: 16
MASONRY CONSTRUCTION SHALL BE INSPECTED PER TMS 402/ACI 530/ASCE 5, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION) FOR LEVEL B QUALITY ASSURANCE.

NOTE: 17
CONDUIT PLACED IN MASONRY SHALL CONFORM TO TMS 402, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (LATEST LOCAL APPROVED EDITION). A SINGLE VERTICAL CONDUIT WITH A MAXIMUM DIAMETER OF 1" IS PERMITTED IN MASONRY PIERS. CONDUIT SHALL BE PLACED A MINIMUM 1" CLEAR FROM ALL VERTICAL REINFORCEMENT. LARGER CONDUIT AND/OR GREATER QUANTITIES ARE NOT PERMITTED IN MASONRY PIERS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD. NO CONDUIT SHALL BE PLACED IN BOND BEAMS.

NOTE: 18
TYPICAL INFILLING, REMOVAL AND REPAIR OF EXISTING MASONRY

INFILLING:
WHERE NEW MASONRY IS TO BE ADDED, THE MASONRY SHALL BE TOOTHED AND MORTARED (SEE GUIDELINES FOR REPAIR). THE NEW MASONRY SHALL BEAR ON NEW CONCRETE FOUNDATIONS OR ON THE EXISTING MASONRY. IN THE LATER CASE, THE EXISTING MASONRY SHALL BE REMOVED TO GOOD, SOLID MATERIAL. THE DRAWINGS INDICATE THE APPROXIMATE EXTENT OF THE REQUIRED MASONRY INFILL. THIS IS A GUIDE ONLY AND THE EXACT EXTENT SHALL BE DETERMINED BY THE CONTRACTOR BASED ON FIELD CONDITIONS. WHEN THE RESULTING MASONRY WOULD BE PART NEW AND PART EXISTING AND WOULD FORM A PIER OR OTHERWISE SMALL ELEMENT, REMOVE ALL THE EXISTING MASONRY AND MAKE A NEW PIER OR WALL.

REPAIRING:

IN THOSE AREAS WHERE NEW OPENINGS MUST BE MADE THROUGH EXISTING MASONRY WALLS, THE EXISTING MASONRY SHALL BE CAREFULLY REMOVED AFTER THE WALL THAT REMAINS ABOVE THE PROPOSED OPENING HAS BEEN TEMPORARILY SUPPORTED OR AFTER THE LINTELS HAVE BEEN PUT IN PLACE. ANY REQUIRED CUTTING BEYOND THE MASONRY OPENING SHALL BE PATCHED WITH MASONRY AND MORTAR (SEE GUIDELINES FOR REPAIR). WHEN THE MASONRY THAT REMAINS AFTER REMOVAL WOULD RESULT IN A PIER OR OTHERWISE SMALL ELEMENT, THE EXISTING MASONRY SHALL BE REMOVED AND A NEW PIER OR WALL SHALL BE CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION SHOWING THE SUPPORT OF THE WALLS PRIOR TO AND DURING THE INSTALLATION OF LINTELS REQUIRED TO SUPPORT THE MASONRY ABOVE THE NEW OPENING.

REPAIR:
IN THOSE AREAS WHERE THE EXISTING MASONRY HAS DETERIORATED, SAGGED OR CRACKED, THE MASONRY SHALL BE REMOVED AND REPLACED. EXISTING BRICKS MAY BE RE-USED PROVIDED THAT THEY ARE IN GOOD CONDITION. THE NEW MORTAR USED TO REPLACE THE EXISTING MORTAR SHALL MATCH SOUND EXISTING MORTAR IN STRENGTH AND CONSISTENCY. IF NEW BRICKS ARE REQUIRED, THEY ALSO SHALL MATCH EXISTING BRICKS IN GOOD CONDITION. THE NEW MASONRY SHALL BE TOOTHED INTO THE EXISTING WALL. THE ARCHITECT SHALL APPROVE ALL NEW MASONRY WORK.

STEEL:

NOTE: 1
ALL STEEL JOISTS SHALL CONFORM TO THE S.I. STANDARD SPECIFICATIONS IN ALL RESPECTS AND SHALL HAVE BRIDGING IN ACCORDANCE WITH THE S.I. SPECIFICATIONS. JOISTS SHALL BE WELDED TO STEEL SUPPORTS PER S.I. SPECIFICATIONS. JOISTS SUPPORTED BY A COLUMN SHALL BE WELDED TO THE COLUMN WITH 1/8"x2" LONG FILLET WELD EACH SIDE UNLESS NOTED OTHERWISE.

NOTE: 2
STRUCTURAL STEEL FOR WIDE FLANGE SHAPES SHALL CONFORM TO ASTM SPECIFICATION A992. STRUCTURAL STEEL FOR HSS MEMBERS SHALL CONFORM TO ASTM SPECIFICATION A600 GRADE C. STRUCTURAL STEEL FOR PIPES SHALL CONFORM TO ASTM SPECIFICATION A53 TYPE E, GRADE B. ALL OTHER STEEL SHALL CONFORM TO ASTM SPECIFICATION A36. MILL TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT. ALL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL, AISC SPECIFICATION AND AISC CODE OF STANDARD PRACTICE. ALL CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL DEVELOP THE ALLOWABLE UNIFORM LOAD OF THE BEAM. CONNECTIONS FOR COMPOSITE BEAMS SHALL DEVELOP THE REACTION NOTED ON THE PLANS. IN GENERAL, FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER A325 BOLTS UNLESS OTHERWISE NOTED AND SHOP CONNECTIONS SHALL BE WELDED.

NOTE: 3
BOLTS, EXCEPT AS NOTED, NEED ONLY BE INSTALLED TO THE "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS." BOLTS IN BEAM TO COLUMN CONNECTIONS THAT HAVE SLOTTED HOLES, BOLTS NOTED AS SLIP CRITICAL, AND BOLTS SUBJECT TO DIRECT TENSION SHALL BE FULLY PRE-TENSIONED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS" (LATEST LOCAL APPROVED EDITION).

NOTE: 4
WELDS SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES.

NOTE: 5
ALL CONNECTIONS, UNLESS OTHERWISE NOTED, SHALL BE DOUBLE ANGLE, SINGLE ANGLE, SINGLE PLATE, OR THRU PLATE CONNECTIONS PER THE TYPICAL DETAILS OF THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE SELECTED BY THE STEEL DETAILER BASED ON THE CONNECTION TABLES PROVIDED IN THE TYPICAL DETAILS. LOADS SHOWN IN THE DRAWINGS ARE ASD LOADS UNLESS OTHERWISE NOTED.

NOTE: 6
FIELD MODIFICATION OF THE STRUCTURAL STEEL IS NOT ALLOWED WITHOUT PRIOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.

NOTE: 7
WELDING SEQUENCE AND TECHNIQUE SHALL BE SUCH THAT DISTORTION OF STEEL MEMBERS IS MINIMIZED AND UNDESIRABLE DISTORTION IS AVOIDED.

NOTE: 8
ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER. ALL EXPOSED STEEL AND LINTELS IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED. REFER TO ARCHITECTURAL DRAWINGS FOR GALVANIZED STEEL THAT SHALL RECEIVE A PAINTED FINISH COAT.

NOTE: 9
TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL THE INSTALLATION OF THE FOLLOWING ITEMS HAS BEEN COMPLETED AND INSPECTED:

- METAL ROOF DECK
- ELEVATED CONCRETE FLOORS
- LATERAL BRACING COMPONENTS INCLUDING ANCHOR BOLTS
- SHEAR WALLS
- MOMENT CONNECTIONS

METAL DECK:

NOTE: 1
FABRICATION AND ERECTION OF ALL METAL DECK SHALL CONFORM TO THE LATEST EDITION OF STEEL DECK INSTITUTE SPECIFICATIONS.

NOTE: 2
ROOF DECK SHALL BE MADE OF STEEL CONFORMING TO ASTM A653 SS GRADE 50. GALVANIZED DECK SHALL HAVE COATING DESIGNATION G60.

NOTE: 3
METAL DECK SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES:
ROOF DECK ---- 1 - 0.205, S = 0.227

NOTE: 4
ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 3 SPANS MINIMUM AND SHALL BEAR AT LEAST 2" ON STEEL SUPPORTS.

NOTE: 5
DECK SHALL BE WELDED TO SUPPORTING STEEL AT ENDS OF UNITS AND AT ALL INTERMEDIATE SUPPORTS AT 12" c.c. AND AS NOTED ON PLANS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SIDE LAPS SHALL BE WELDED OR SCREWED AT MID SPAN AND AS NOTED ON PLANS.

NOTE: 6
PROVIDE RIDGE AND VALLEY PLATES, REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP PANS, FINISH STRIPS, POUR STOPS, AND OTHER ACCESSORIES AS SHOWN ON THE DRAWINGS OR AS REQUIRED.

NOTE: 7
DO NOT HANG ANY EQUIPMENT, LIGHTS, DUCTS, PIPES, ETC., FROM METAL ROOF DECK.

COLD-FORMED METAL FRAMING:

NOTE: 1
GALVANIZED STUDS, JOISTS, AND TRACKS, 12, 14, AND 16 GAGE SHALL BE FORMED FROM STEEL THAT CONFORMS TO ASTM A653, GRADE 50, GALVANIZED 18 AND 20 GAGE STUDS, JOISTS, TRACKS, AND ALL GALVANIZED BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A653 GRADE 50.

NOTE: 2
ALL COLD-FORMED METAL FRAMING SHALL BE FORMED FROM STEEL HAVING A G-90 GALVANIZED COATING.

NOTE: 3
FRAMING COMPONENTS MAY BE PRE-ASSEMBLED INTO PANELS PRIOR TO ERECTING. PREFABRICATED PANELS SHALL BE SQUARE WITH COMPONENTS ATTACHED IN A MANNER AS TO PREVENT RACKING. HANDLING AND LIFTING OF PREFABRICATED FRAME PANELS SHALL BE DONE IN A MANNER AS NOT TO CAUSE DISTORTION IN ANY MEMBER.

NOTE: 4
WALL STUD BRIDGING SHALL BE INSTALLED IN A MANNER TO PROVIDE RESISTANCE TO BOTH MINOR AXIS BENDING AND ROTATION. BRIDGING ROWS SHALL BE EQUALLY SPACED NOT TO EXCEED 4'-0" c.c.

NOTE: 5
SIZES AND GAGES OF COLD-FORMED METAL FRAMING SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. FRAMING SHALL BE DESIGNED FOR THE WIND LOADS REQUIRED BY THE LOCAL BUILDING CODE AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION FOR RIDGING PURPOSES. PROVIDE MULTIPLE STUDS AT EACH SIDE OF OPENINGS EQUAL TO ONE-HALF OPENING WIDTH DIVIDED BY THE STUD SPACING.

SUPPORT FOR DUCTWORK, PIPING AND MECHANICAL UNITS:

NOTE: 1
NO MECHANICAL UNITS SHALL BE PLACED ON OR HUNG FROM JOISTS WITHOUT THE APPROVAL OF THE ENGINEER. NO UNITS SHALL BE SUPPORTED FROM THE BOTTOM CHORD OF THE JOIST.

NOTE: 2
DUCTWORK AND PIPING SHALL ONLY BE HUNG FROM THE STEEL FRAMING. AT JOISTS, HANGERS SHALL BE SUPPORTED FROM THE TOP CHORD PANEL POINT AND THE LOAD ON INDIVIDUAL HANGERS SHALL NOT EXCEED 300 POUNDS.

NOTE: 3
PIPE RISERS SHALL BE SUPPORTED FROM THE FLOOR SLAB BELOW WITH A CLAMP OR STANCHION.

NOTE: 4
JOISTS HAVE BEEN DESIGNED FOR A UNIFORM HANGING SPRINKLER LOAD OF 3 PSF. THE SPRINKLER CONTRACTOR SHALL SPACE THE SPRINKLERS SO THAT THE UNIFORM HANGING SPRINKLER LOADS IS NOT EXCEEDED. SPRINKLER LINES 4" AND LARGER THAT RUN PARALLEL WITH THE JOISTS SHALL BE PLACED EVENLY BETWEEN TWO JOISTS. SPRINKLER PIPES SHALL BE HUNG FROM THE TOP CHORD PANEL POINT OF THE JOISTS AND THE LOAD ON EACH INDIVIDUAL HANGER SHALL NOT EXCEED 300 POUNDS.

NOTE: 5
THE MAXIMUM TOTAL HUNG LOAD ON ANY SINGLE JOIST FROM MULTIPLE HANGERS SHALL NOT EXCEED 900 POUNDS.

POST-INSTALLED ANCHORS AND REINFORCING:

NOTE: 1
ANCHORS SHALL BE THE FOLLOWING TYPES MANUFACTURED BY HILTI, INC.:

- a. ADHESIVE ANCHORS IN CONCRETE: HILTI HIT-HY200 ANCHORING SYSTEM PER ICC ESR-3187 WITH HILTI HIT-Z THREADED ROD
- b. ADHESIVE ANCHORS IN SOLID GROUTED MASONRY: HILTI HIT-HY270 MASONRY ADHESIVE SYSTEM PER ICC ESR-4143/ESR-4144 WITH HILTI HAS-E CONTINUOUSLY THREADED ROD
- c. ADHESIVE ANCHORS IN HOLLOW AND MULTI-WYTHE MASONRY: HILTI HIT-HY270 MASONRY ADHESIVE SYSTEM PER ICC ESR-2682 WITH HILTI HAS-E CONTINUOUSLY THREADED ROD AND APPROPRIATE SIZE SCREEN TUBE
- d. MECHANICAL ANCHORS IN CONCRETE: HILTI KWIK BOLT TZ EXPANSION ANCHOR PER ICC ESR-1917
- e. MECHANICAL ANCHORS IN SOLID GROUTED MASONRY: HILTI KWIK BOLT 3 EXPANSION ANCHOR PER ICC ESR-1385

ALTERNATE MANUFACTURERS OR ANCHORS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO USE. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED CALCULATIONS DEMONSTRATING THAT THE PROPOSED SUBSTITUTIONS, BASED ON THEIR SPECIFIC ICC EVALUATION REPORTS, ARE CAPABLE OF ACHIEVING THE PERFORMANCE VALUES EQUAL TO OR GREATER THAN THOSE OF THE ANCHORS SPECIFIED.

NOTE: 2
ADHESIVE ANCHORS AND REINFORCING SHALL NOT BE INSTALLED UNTIL THE CONCRETE OR GROUT HAS BEEN ALLOWED TO CURE FOR 21 DAYS AND HAS ATTAINED 70% OF ITS DESIGN STRENGTH.

NOTE: 3
MECHANICAL ANCHORS SHALL NOT BE INSTALLED UNTIL THE CONCRETE OR GROUT HAS ATTAINED 70% OF ITS DESIGN STRENGTH.

NOTE: 4
POST INSTALLED ANCHORS AND REINFORCING SHALL BE INSTALLED IN DRY CONDITIONS THAT HAVE BEEN DRILLED, CLEANED AND PREPARED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND THE RESPECTIVE ICC EVALUATION REPORTS.

NOTE: 5
THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL THE ANCHORING PRODUCTS SPECIFIED IN THE DRAWINGS. PRIOR TO INSTALLATION OF ANY ANCHORS, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT DOCUMENTED CONFIRMATION FROM THE MANUFACTURER'S REPRESENTATIVE THAT THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL THE ANCHORS HAVE BEEN PROPERLY TRAINED FOR THE SPECIFIED ANCHORS.

NOTE: 6
IN ADDITION TO TRAINING BY THE MANUFACTURER'S REPRESENTATIVE, THE CONTRACTOR'S PERSONNEL WHO WILL INSTALL ADHESIVE ANCHORS IN CONCRETE SHALL BE CERTIFIED BY AN ACI/CRS ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

NOTE: 7
ALL ANCHORS AND REINFORCING SHALL BE INSTALLED IN ACCORDANCE WITH THE SPACING AND EDGE DISTANCES SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL INFORM THE ARCHITECT PRIOR TO INSTALLING THE ANCHORS IF THE SPACING AND EDGE DISTANCES SHOWN IN THE DRAWINGS CANNOT BE ACHIEVED. IF THIS IS THE CASE, RE-DESIGN MIGHT BE REQUIRED AND THE ANCHORS SHOULD NOT BE INSTALLED UNTIL APPROVAL HAS BEEN PROVIDED BY COLUMBIA ENGINEERING, INC.

NOTE: 8
DO NOT CUT ANY REINFORCING UNLESS IT IS SPECIFICALLY INDICATED IN THE DRAWINGS OR IS APPROVED BY COLUMBIA ENGINEERING, INC.

NOTE: 9
POST INSTALLED ANCHORS AND REINFORCING SHALL ONLY BE USED WHERE SPECIFIED IN THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM COLUMBIA ENGINEERING, INC. PRIOR TO INSTALLING POST INSTALLED ANCHORS WHERE CAST IN PLACE ANCHORS ARE MISSING, MISPLACED OR DAMAGED.

NOTE: 10
POST INSTALLED ANCHORS AND REINFORCING SHALL BE PERIODICALLY INSPECTED PER IBC 2018 SECTION 1705 EXCEPT ADHESIVE ANCHORS AND REINFORCING INSTALLED IN A VERTICAL OR OVERHEAD SURFACE SHALL BE CONTINUOUSLY INSPECTED.

EXISTING CONSTRUCTION:

NOTE: 1
COLUMBIA ENGINEERING, INC. PREPARED THESE PLANS BASED ON A LIMITED AMOUNT OF FIELD EXPLORATION AND ON THE STRUCTURAL INFORMATION SHOWN IN DRAWINGS 21.1, 23.1 PREPARED BY WATKINS AND VITALE, INC., 60-1-60 & 62.1, 63.1-63.4 AND 64.1 PREPARED BY GEORGE EVANS ASSOCIATES, INC. AND 71.2 PREPARED BY JAMES POSEY ASSOCIATES, INC. DATED 8/21/98, C-10, C-11, PREPARED BY KCI TECHNOLOGIES, P-3 PREPARED BY JAMES POSEY ASSOCIATES, INC., S-3 PREPARED BY MEYER CONSULTING ENGINEERS CORP. DATED 9/15/1998, C-2, C-5 AND C-8 PREPARED BY KCI TECHNOLOGIES, INC., S-1, S-6 PREPARED BY ADTEK ENGINEERS, P-2 (PREPARED BY GRE ASSOCIATES DATED 1/27/2015, THE EXISTING MEMBER SIZES ARE NOTED (A) AND ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING MEMBERS SHOWN IN THE PLANS MATCH EXISTING AS BUILT CONDITIONS PRIOR TO PREPARING SHOP DRAWINGS. IF THE AS BUILT CONDITIONS DO NOT CONFORM TO THE INFORMATION SHOWN IN THE PLANS, OR IF ANY STRUCTURAL MEMBER IS FOUND TO BE IN POOR CONDITION, THE CONTRACTOR SHALL INFORM COLUMBIA ENGINEERING, INC. OF THE ACTUAL SIZES AND/OR CONDITION, RE-DESIGN AND ADDITIONAL FRAMING MAY BE REQUIRED IN THAT CASE.

NOTE: 2
ALL NEW PENETRATIONS THROUGH THE EXISTING FRAMED FLOORS, ROOFS AND WALLS SHALL BE ACCURATELY LOCATED BY THE CONTRACTOR. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS SHOWING ALL PROPOSED OPENINGS AND SHALL SUBMIT THESE FOR REVIEW AND APPROVAL PRIOR TO CUTTING ANY OPENINGS.

NOTE: 3
NEW PENETRATIONS SHOWN IN THE STRUCTURAL DRAWINGS ARE PRINCIPAL OPENINGS. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL, MEP AND TELECOMMUNICATION DRAWINGS FOR ALL PENETRATIONS.

MISCELLANEOUS:

NOTE: 1
ITEMS AND CONDITIONS NOTED OR IDENTIFIED IN SECTIONS AND DETAILS APPLY TO AREAS SIMILAR IN CONDITION TO THOSE DENOTED BY THE SECTION CUT OR DETAIL MARK.

NOTE: 2
THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH FABRICATION OR CONSTRUCTION.

NOTE: 3
SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS MUST BE SUBMITTED BY THE CONTRACTOR. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, THE FIRM COLUMBIA ENGINEERING, INC. WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND/OR THE DESIGN OF THE PROJECT.

AT THE TIME OF SHOP DRAWING SUBMISSION, THE CONTRACTOR SHALL STATE IN WRITING ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMISSION AND MAKE ALL CORRECTIONS AS HE DEEMS NECESSARY AND SHALL CERTIFY ON EACH DRAWING AS FOLLOWS:

"I CERTIFY THAT THE CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN MET, AND ALL DIMENSIONAL CONDITIONS AND QUANTITIES ARE VERIFIED AS SHOWN AND/OR AS CORRECTED ON THIS DRAWING."

SIGNED: _____
(FOR CONTRACTOR)

NOTE: 4
REPRODUCTION OF CONTRACT DOCUMENTS WILL NOT BE ACCEPTED AS SHOP DRAWINGS.

NOTE: 5
SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER REVIEW:

- a. CONCRETE/GROUT MIX DESIGNS
- b. CONCRETE MASONRY REINFORCING STEEL
- c. CONSTRUCTION CONTROL JOINT LAYOUT FOR SLABS ON GRADE
- d. STRUCTURAL STEEL
- e. STEEL JOISTS
- f. METAL DECK

SEE SPECIFICATIONS FOR ADDITIONAL REQUIRED SUBMITTALS.

NOTE: 6
THE FOLLOWING ITEMS SHALL BE DESIGNED FOR LOADS INDICATED IN THE DRAWINGS AND IN THE LOCAL BUILDING CODE:

- a. CURTAIN WALL SYSTEMS
- b. COLD-FORMED FRAMING
- c. LADDERS

SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION AND SUBMITTED FOR REVIEW.

NOTE: 7
ALL SHOP DRAWINGS USED FOR WORK SHALL BEAR THE STAMP OF THE ARCHITECT/ENGINEER, AND SHALL BE MARKED "REVIEWED" OR "REVISED AS NOTED."

NOTE: 8
THE BUILDING FRAME IS NOT SELF-SUPPORTING UNTIL THE ENTIRE STRUCTURAL FRAME HAS BEEN INSTALLED. TEMPORARY BRACING MUST BE PROVIDED BY THE CONTRACTOR TO SUPPORT THE FRAME UNTIL THE STRUCTURAL SYSTEM HAS BEEN COMPLETED.

NOTE: 9
LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE. A CONCRETE STRUCTURE MAY NOT SUPPORT ITS DESIGN LIVE LOADS FOR 28 DAYS, UNLESS THE DESIGN STRENGTH IS ACHIEVED EARLIER BASED ON FIELD CURED CYLINDERS.

NOTE: 10
THE CONTRACTOR SHALL SUPPORT ADJACENT STRUCTURES, UTILITIES, AND EXCAVATIONS. CONTRACTOR SHALL HAVE ALL TEMPORARY FORMWORK, SHEETING, SHORING, UNDERPINNING, ETC., AS PART OF THE CONTRACTOR'S WORK, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

NOTE: 11
ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 (EXCEPTIONS NOTED SHALL NOT BE PERMITTED) AND ALL LOCAL ORDINANCES. INSPECTIONS REQUIRED SHALL BE PER THE STATEMENT OF SPECIAL INSPECTIONS NOTED ON THIS SHEET

INSPECTION TABLES

STATEMENT OF SPECIAL INSPECTIONS:

NOTE 1:
INSPECTION OR TESTING SHALL BE PROVIDED FOR ALL MATERIAL, COMPONENTS AND WORK LISTED IN THE TABLES BELOW.

NOTE 2:
DEFINITIONS:
a. CONTINUOUS INSPECTION: INDICATES SPECIAL INSPECTOR SHALL BE PRESENT DURING CONTRACTOR PERFORMANCE OF THE TASK.
b. PERIODIC INSPECTION: INDICATES SPECIAL INSPECTOR SHALL PROVIDE INSPECTION OR TESTING OF ALL WORK INDICATED, BUT THAT SPECIAL INSPECTOR IS NOT REQUIRED TO BE PRESENT DURING CONTRACTOR PERFORMANCE OF THE TASK. PERIODIC INSPECTION DOES NOT MEAN RANDOM INSPECTION IS ALLOWED.
c. RANDOM INSPECTION: INDICATES SPECIAL INSPECTOR SHALL PROVIDE INSPECTION OR TESTING, AS NEEDED, TO INSURE PROPER PERFORMANCE OF THE TASK BY THE CONTRACTOR.

SOILS	
INSPECTION TASK	TYPE OF INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC

CONCRETE	
INSPECTION TASK	TYPE OF INSPECTION
1. INSPECTION OF REINFORCING STEEL FOR SIZE, QUANTITY AND PLACEMENT.	PERIODIC
2. INSPECTION OF ANCHORS CAST IN CONCRETE.	PERIODIC
3. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (FOLLOW MANUFACTURERS WRITTEN INSTALLATION REQUIREMENTS). A. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS B. ALL OTHER CONDITIONS	A. CONTINUOUS B. PERIODIC
4. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. FOR LIGHTWEIGHT CONCRETE, PERFORM UNIT WEIGHT TESTS.	CONTINUOUS
6. INSPECTION OF CONCRETE PLACEMENT.	CONTINUOUS
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC
8. VERIFICATION OF IN SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED AND FOR CONFORMANCE WITH FORMWORK DESIGN.	PERIODIC
10. MEASURE F (F) AND F (L) TOLERANCE FOR FLOORS.	PERIODIC

MASONRY	
INSPECTION TASK	TYPE OF INSPECTION
1. VERIFICATION OF m PRIOR TO CONSTRUCTION	PERIODIC
2. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	PERIODIC
3. AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE: a. PROPORTIONS OF SITE-PREPARED MORTAR b. CONSTRUCTION OF MORTAR JOINTS c. LOCATION OF REINFORCEMENT AND CONNECTORS	PERIODIC
4. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. GROUT SPACE b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS c. PLACEMENT OF REINFORCEMENT AND CONNECTORS d. PROPORTIONS OF SITE-PREPARED GROUT e. CONSTRUCTION OF MORTAR JOINTS	PERIODIC
5. VERIFY DURING CONSTRUCTION: a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS b. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. c. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	PERIODIC
6. PLACEMENT OF GROUT	CONTINUOUS
7. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	PERIODIC
8. INSTALLATION OF POST INSTALLED ANCHORS.	CONTINUOUS

STEEL - PRIOR TO WELDING		
INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	PERIODIC	PERIODIC
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	PERIODIC	PERIODIC
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	RANDOM	RANDOM
4. WELDER IDENTIFICATION SYSTEM	RANDOM	RANDOM
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	RANDOM	PERIODIC
6. CONFIGURATION AND FINISH OF ACCESS HOLES	RANDOM	PERIODIC
7. FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	RANDOM	RANDOM
8. CHECK WELDING EQUIPMENT	RANDOM	NONE
NOTES: QC - DENOTES QUALITY CONTROL PERSONNEL SI - DENOTES SPECIAL INSPECTOR		

STEEL - DURING WELDING		
INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. USE OF QUALIFIED WELDERS	RANDOM	RANDOM
2. CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	RANDOM	RANDOM
3. NO WELDING OVER CRACKED TACK WELDS	RANDOM	RANDOM
4. ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	RANDOM	RANDOM
5. WPS FOLLOWED FOR GROOVE WELDS AND MULTI-PASS FILLET WELDS • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PRE-HEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MINIMUM / MAXIMUM) • PROPER POSITION (E, V, H, OH)	RANDOM	CONTINUOUS
6. WPS FOLLOWED FOR SINGLE - PASS FILLET WELDS • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PRE-HEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MINIMUM / MAXIMUM) • PROPER POSITION (E, V, H, OH)	RANDOM	RANDOM
7. WELDING TECHNIQUES FOR GROOVE WELDS AND MULTI-PASS FILLET WELDS • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	RANDOM	CONTINUOUS
8. WELDING TECHNIQUES FOR SINGLE-PASS FILLET WELDS • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	RANDOM	RANDOM
NOTES: QC - DENOTES QUALITY CONTROL PERSONNEL SI - DENOTES SPECIAL INSPECTOR		

STEEL - AFTER WELDING		
INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. WELDS CLEANED	PERIODIC	PERIODIC
2. SIZE, LENGTH AND LOCATION OF WELDS	PERIODIC	PERIODIC
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD / BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	PERIODIC	PERIODIC
4. ULTRASONICALLY TEST FULL PENETRATION GROOVE WELDS	PERIODIC	PERIODIC
5. ARC STRIKES	PERIODIC	PERIODIC
6. K - AREA (1")	PERIODIC	PERIODIC
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	PERIODIC	PERIODIC
8. REPAIR ACTIVITIES	PERIODIC	PERIODIC
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERIODIC	PERIODIC
NOTES: QC - DENOTES QUALITY CONTROL PERSONNEL SI - DENOTES SPECIAL INSPECTOR (1") - DENOTES WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN THREE INCHES OF THE WELD.		

STEEL - PRIOR TO BOLTING		
INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	RANDOM	PERIODIC
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	RANDOM	RANDOM
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	RANDOM	RANDOM
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	RANDOM	RANDOM
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	RANDOM	RANDOM
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	CONTINUOUS	RANDOM
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	RANDOM	RANDOM
NOTES: QC - DENOTES QUALITY CONTROL PERSONNEL SI - DENOTES SPECIAL INSPECTOR		

STEEL - DURING BOLTING		
INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	PERIODIC	PERIODIC
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION	RANDOM	RANDOM
3. PRE-TENSIONED AND SLIP CRITICAL JOINTS INSTALLED USING ONE OF THE FOLLOWING METHODS: • DIRECT-TENSION INDICATOR WASHER METHOD • TWIST-OFF TYPE TENSION CONTROL BOLT METHOD	PERIODIC	PERIODIC
4. FASTENERS COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	RANDOM	RANDOM
5. FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	RANDOM	RANDOM
NOTES: QC - DENOTES QUALITY CONTROL PERSONNEL SI - DENOTES SPECIAL INSPECTOR		

STEEL - AFTER BOLTING		
INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERIODIC	PERIODIC
NOTES: QC - DENOTES QUALITY CONTROL PERSONNEL SI - DENOTES SPECIAL INSPECTOR		

STEEL - OTHER		
INSPECTION TASK	TYPE OF INSPECTION	
	QC	SI
1. COMPLIANCE OF THE FABRICATED STEEL WITH THE SHOP DRAWINGS	PERIODIC	NONE
2. SETTING OF ANCHOR BOLTS, BEARING PLATES AND EMBEDDED ITEMS PRIOR TO PLACEMENT OF CONCRETE	RANDOM	PERIODIC
3. STRUCTURAL MEMBERS FOR PLUMBNESS, ELEVATION AND ALIGNMENT	RANDOM	PERIODIC
4. COMPLIANCE OF THE ERECTED STEEL FRAME WITH ERECTION DRAWINGS FOR ITEMS SUCH AS BRACES, MEMBER LOCATIONS AND CONNECTION DETAILS	PERIODIC	NONE
5. COMPLIANCE OF THE ERECTED STEEL FRAME WITH CONTRACT DOCUMENTS FOR ITEMS SUCH AS BRACES, MEMBER LOCATIONS AND CONNECTION DETAILS	NONE	PERIODIC
NOTES: QC - DENOTES QUALITY CONTROL PERSONNEL SI - DENOTES SPECIAL INSPECTOR		

STEEL JOISTS	
INSPECTION TASK	TYPE OF INSPECTION
1. SETTING OF BEARING PLATES	PERIODIC
2. ALIGNMENT OF JOISTS	PERIODIC
3. INSTALLATION OF BRIDGING	PERIODIC
4. SIZE, LENGTH AND LOCATION OF WELDS	PERIODIC
5. ULTRASONICALLY TEST FULL PENETRATION WELDS	PERIODIC
6. HIGH-STRENGTH BOLTS INSTALLED	PERIODIC

STEEL DECK	
INSPECTION TASK	TYPE OF INSPECTION
1. MATERIAL VERIFICATION: a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. b. MANUFACTURERS CERTIFIED TEST REPORTS.	PERIODIC
2. VERIFY WELDING CONSUMABLES AND FASTENERS TO BE USED.	PERIODIC
3. VERIFY DECK ALIGNMENT AND SUPPORT.	PERIODIC
4. VERIFY FLOOR AND ROOF DECK ATTACHMENT: a. WELDS TO SUPPORTING MEMBERS b. SIDE LAP SCREWS AND WELDS	PERIODIC
5. VERIFY TOUCH-UP GALVANIZATION APPLIED TO WELDS.	PERIODIC

COLD-FORMED STEEL	
INSPECTION TASK	TYPE OF INSPECTION
1. VERIFY SIZE AND GAGE OF FRAMING.	PERIODIC
2. VERIFY PLUMBNESS, ALIGNMENT AND PROPER BEARING OF ELEMENTS	PERIODIC
3. VERIFY COLD-FORMED FRAMING IS PROPERLY FASTENED TOGETHER	PERIODIC
4. VERIFY CONNECTIONS TO STRUCTURAL FRAME	PERIODIC
5. VERIFY TOUCH-UP GALVANIZATION IS APPLIED TO WELDS	PERIODIC

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No.: 20136, Expiration Date: 7/31/2023.

PROFESSIONAL SEAL:



PRINTS ISSUED

NO.	DESCRIPTION	DATE:
1	BID SET	07/07/2021

CROFTON MIDDLE SCHOOL ADDITION

ANNE ARUNDEL COUNTY PUBLIC SCHOOLS

SHEET TITLE:
INSPECTION TABLES

PROJECT NO:
21-112

DATE:
07/07/2022

SCALE:
As indicated

SHEET NO:

S0.02

ARCHITECT



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NO.	DESCRIPTION:	DATE:
1	BID SET	07/07/2021

CROFTON MIDDLE SCHOOL ADDITION

ANNE ARUNDEL COUNTY PUBLIC SCHOOLS

SHEET TITLE:
FOUNDATION AND SLAB ON GRADE PLAN AND SECTIONS - AREA A

PROJECT NO:

21-112

DATE:

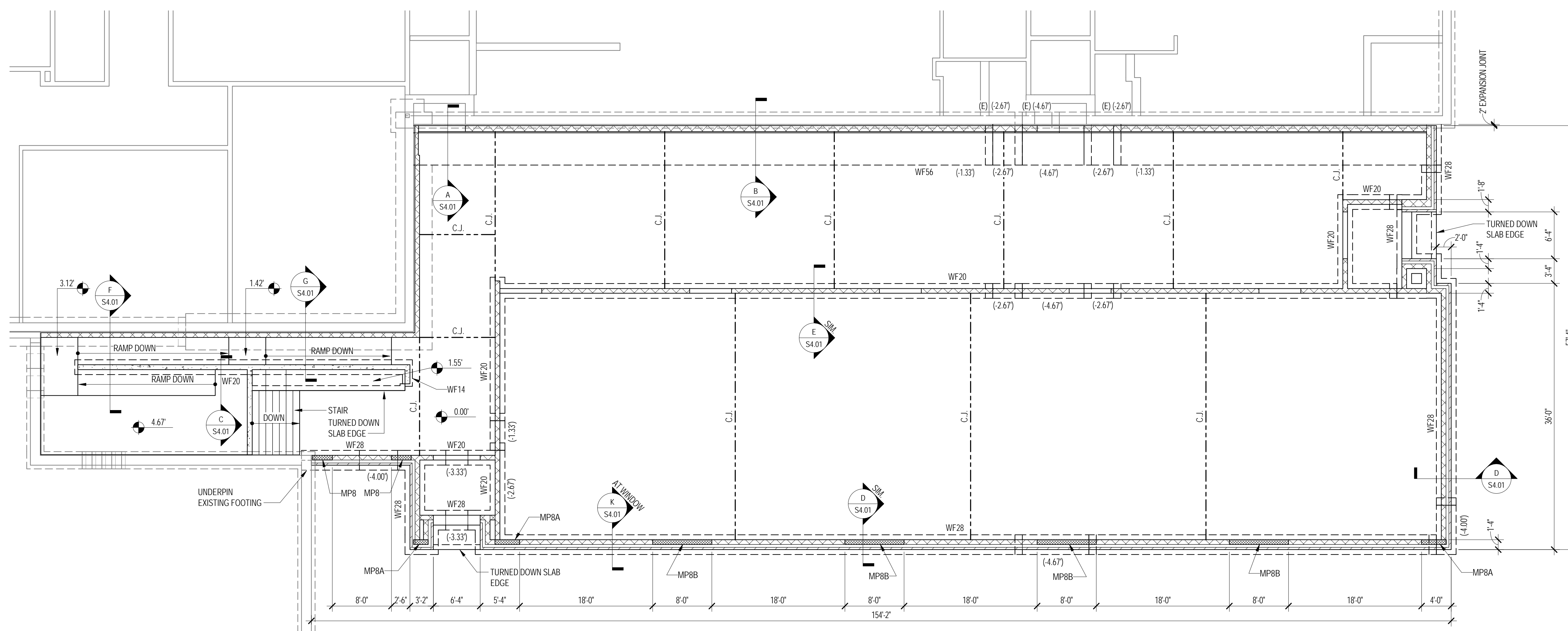
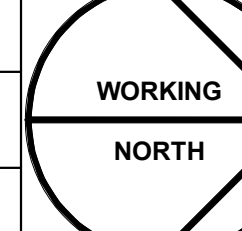
07/07/2022

SCALE:

As indicated

SHEET NO:

S1.01



FOUNDATION AND SLAB ON GRADE PLAN - AREA A

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

NOTES:

- (E) DENOTES EXISTING.
- EXISTING SHOWN LIGHT, NEW WORK SHOWN BOLD.
- TOP OF EXTERIOR FOOTING ELEVATIONS SHALL BE 2'-8" BELOW SLAB ON GRADE ELEVATION UNLESS NOTED OTHERWISE. THUS: (...) ON PLAN. TOP OF INTERIOR FOOTING ELEVATIONS SHALL BE 8" BELOW SLAB ON GRADE ELEVATION UNLESS NOTED OTHERWISE. THUS: (...) ON PLAN. FOOTING ELEVATIONS SHOWN ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED. LOWER ALL FOOTINGS AS REQUIRED BELOW ALL UTILITY LINES.
- TOP OF CONCRETE PIERS ELEVATION BELOW COLUMNS SHALL BE 8" BELOW TOP OF SLAB ELEVATION UNLESS NOTED OTHERWISE. THUS: (...) ON PLAN.
- SLAB ON GRADE SHALL BE 5" THICK CONCRETE REINFORCED WITH 6"x6" W2.1XW2.1 W.W.F. ON 15 MILS VAPOR BARRIER OVER 4" THICK LAYER OF WASHED GRAVEL OR CRUSHED STONE UNLESS NOTED OTHERWISE. TOP OF SLAB ELEVATION (DATUM 0'-00") IS SHOWN THUS: 0.000.
- SEE DETAIL E.S3.01 FOR ADDITIONAL SLAB REINFORCEMENT AT MASONRY OPENINGS.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DEPRESSED SLAB AREAS.
- PROVIDE DEEPEMED SLAB UNDER ALL INTERIOR NON-BEARING MASONRY PARTITION WALLS. SEE SHEET S3.01. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- SEE SHEET S0.01, S3.01 AND S3.02 FOR GENERAL NOTES AND TYPICAL DETAILS.
- C.J. DENOTES SLAB CONSTRUCTION/CONTROL JOINT. SEE TYPICAL DETAIL ON SHEET S3.01.

MASONRY PIER SCHEDULE

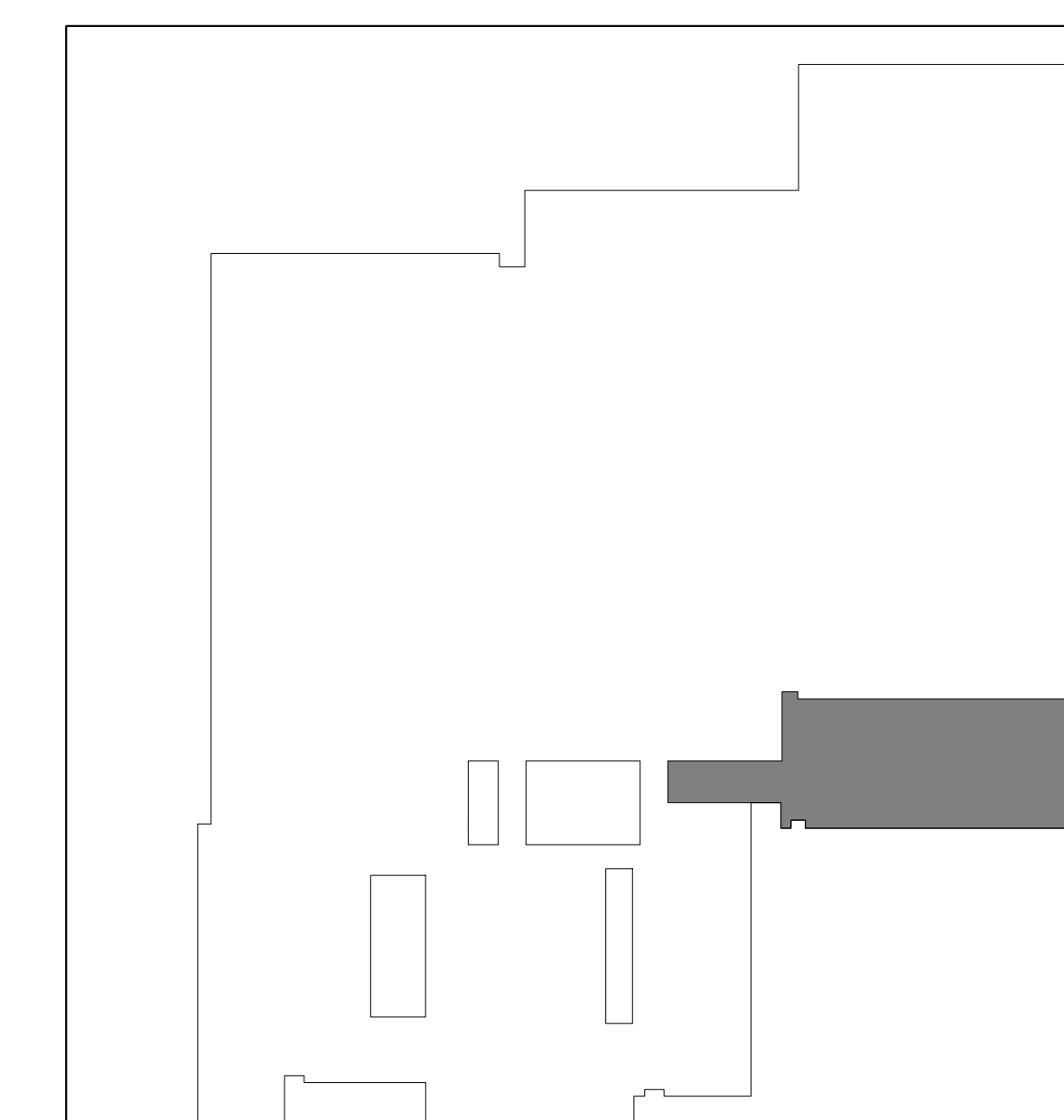
MARK	WIDTH	VERTICAL REINFORCEMENT	REMARKS
MP8	32"	4-#6	FULL HEIGHT
MP8A	40"	9-#6	FULL HEIGHT
MP8B	96"	20-#6	FULL HEIGHT
MP14	24"	6-#7	FULL HEIGHT

NOTES:

- MASONRY PIERS SHALL BE GROUTED SOLID.
- REINFORCEMENT EXTENDS FULL HEIGHT OF THE PIER.
- VERTICAL REINFORCEMENT SHALL BE PLACED TO AVOID LINTELS AND BEARING PLATES.
- NO MASONRY CONTROL JOINTS ARE PERMITTED IN THE MASONRY PIERS.

WALL FOOTING SCHEDULE

MARK	SIZE	THICKNESS	REINFORCEMENT
WF14	1'-4" CONTINUOUS	1'-0"	2-#5 CONTINUOUS BOTTOM
WF20	2'-0" CONTINUOUS	1'-0"	2-#5 CONTINUOUS BOTTOM
WF28	2'-8" CONTINUOUS	1'-0"	3-#5 CONTINUOUS BOTTOM
WF56	5'-6" CONTINUOUS	1'-4"	4-#6 CONTINUOUS TOP AND BOTTOM, #5 AT 24" O.C. SHORT



KEY PLAN

SCALE: N.T.S.

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PROFESSIONAL SEAL:



PRINTS ISSUED

NO.	DESCRIPTION:	DATE:
1	BID SET	07/07/2021

CROFTON MIDDLE SCHOOL ADDITION

ANNE ARUNDEL COUNTY PUBLIC SCHOOLS

SHEET TITLE:

FOUNDATION AND SLAB ON GRADE PLAN - AREA B

PROJECT NO:

21-112

DATE:

07/07/2022

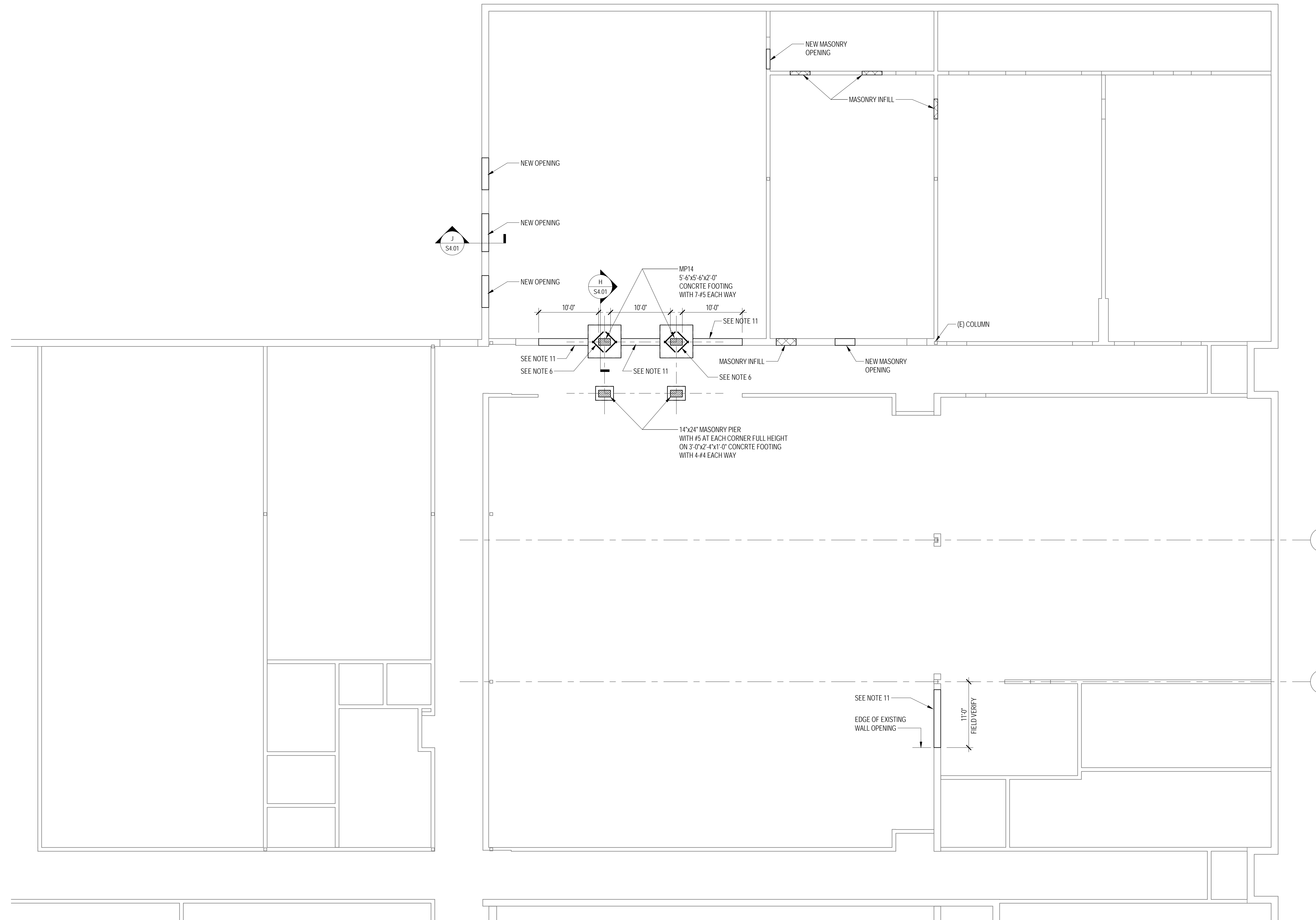
SCALE:

1/8" = 1'-0"

SHEET NO:

S1.02

6/30/2022 11:35:33 AM

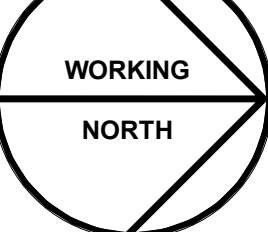
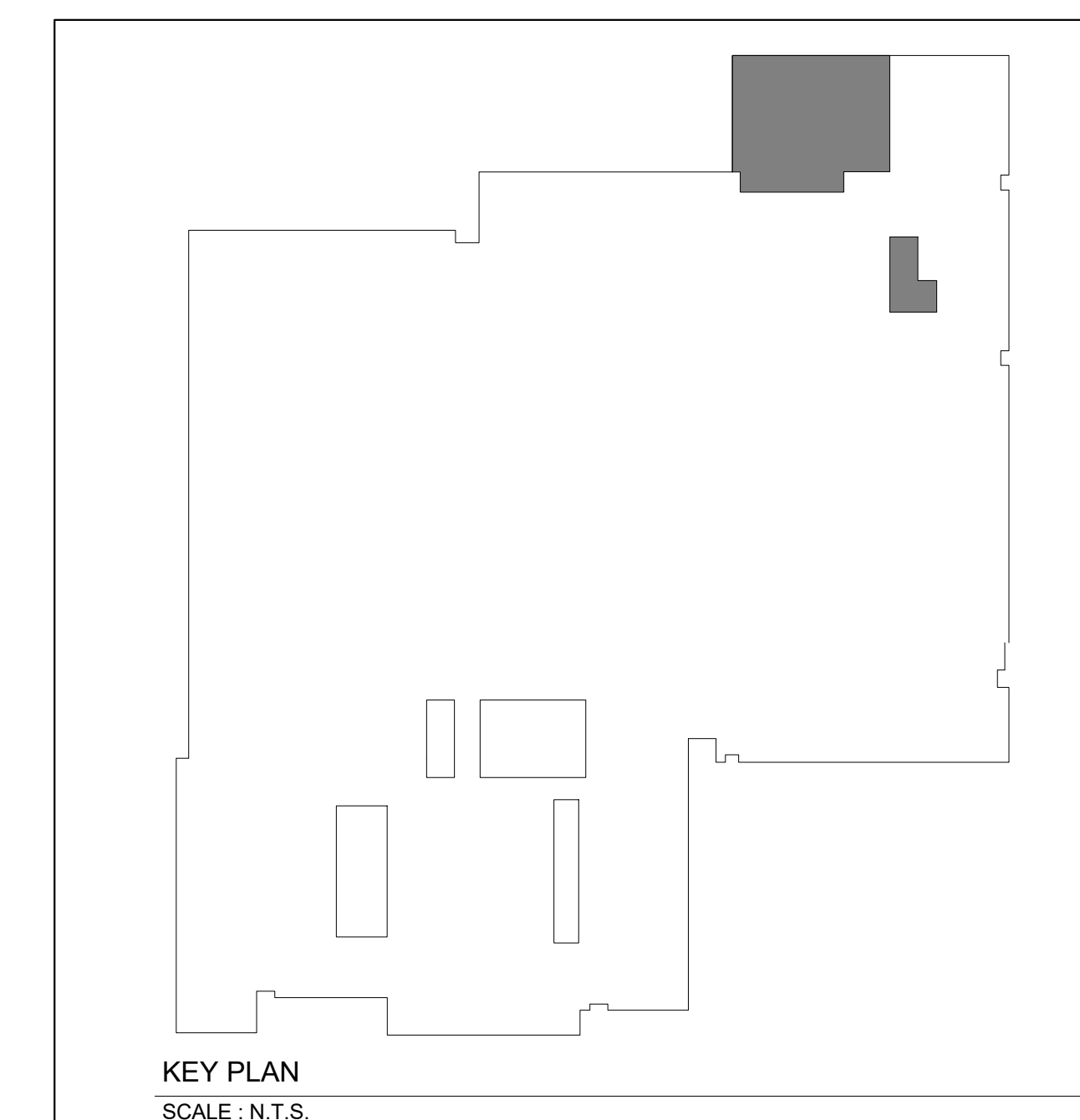


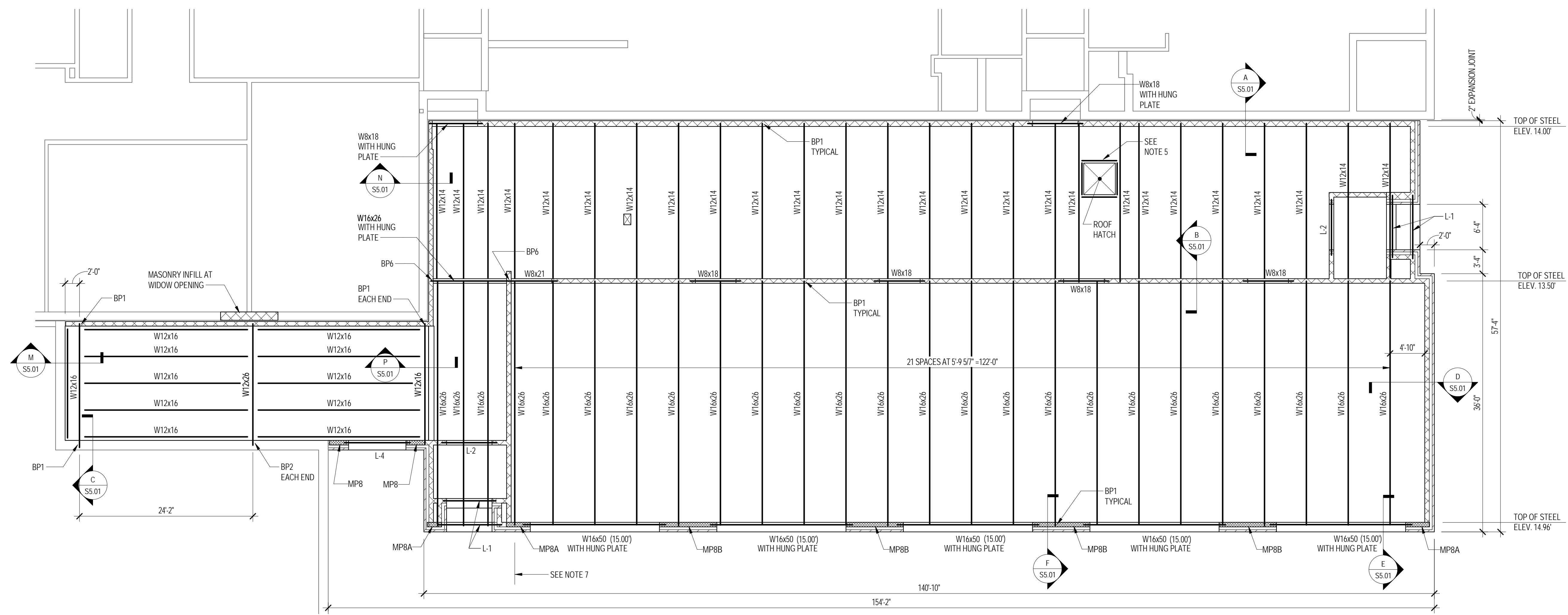
FOUNDATION AND SLAB ON GRADE PLAN - AREA B

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

NOTES:

1. (E) DENOTES EXISTING.
2. EXISTING SHOWN LIGHT; NEW WORK SHOWN BOLD.
3. TOP OF EXTERIOR FOOTING ELEVATIONS SHALL BE 2'-0" BELOW SLAB ON GRADE ELEVATION UNLESS NOTED OTHERWISE. THIS: (...) ON PLAN. TOP OF INTERIOR FOOTING ELEVATIONS SHALL BE 8" BELOW SLAB ON GRADE ELEVATION UNLESS NOTED OTHERWISE. THIS: (...) ON PLAN. FOOTING ELEVATIONS SHOWN ARE FOR BID PURPOSES ONLY AND MAY HAVE TO BE FIELD ADJUSTED. LOWER ALL FOOTINGS AS REQUIRED BELOW ALL UTILITY LINES.
4. TOP OF CONCRETE PIERS ELEVATION BELOW COLUMNS SHALL BE 8" BELOW TOP OF SLAB ELEVATION UNLESS NOTED OTHERWISE. THIS: (...) ON PLAN.
5. SLAB ON GRADE SHALL BE 5" THICK CONCRETE REINFORCED WITH #3@6" W2.1xW2.1 W.W.F. ON 15 MILS VAPOR BARRIER OVER 4" THICK LAYER OF WASHED GRAVEL OR CRUSHED STONE UNLESS NOTED OTHERWISE. TOP OF SLAB ELEVATION (DATUM 0'-00") IS SHOWN THUS: ...0.00' FROM ELEVATION 169.875.
6. SEE DETAIL E/S3.01 FOR ADDITIONAL SLAB REINFORCEMENT AT MASONRY OPENINGS.
7. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DEPRESSED SLAB AREAS.
8. PROVIDE DEPRESSED SLAB UNDER ALL INTERIOR NON-BEARING MASONRY PARTITION WALLS. SEE SHEET S3.01. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR LOCATIONS.
9. SEE SHEET S0.01, S3.01 AND S3.02 FOR GENERAL NOTES AND TYPICAL DETAILS.
10. C.J. DENOTES SLAB CONSTRUCTION/CONTROL JOINT. SEE TYPICAL DETAIL ON SHEET S3.01.
11. REMOVE EXISTING MASONRY WALL TO 8" BELOW TOP OF SLAB AND PATCH WITH CONCRETE TO MATCH LEVEL WITH ADJACENT CONCRETE SLAB ELEVATION.





ROOF FRAMING PLAN - AREA A

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

- NOTES:**
- (E) DENOTES EXISTING STRUCTURAL MEMBER.
 - EXISTING SHOWN LIGHT, NEW WORK SHOWN BOLD.
 - TOP OF STEEL ELEVATION NOTED THIS: (X.XX) IS FROM DATUM ELEVATION 0.00.
 - ROOF DECK SHALL BE 1 1/2" 20 GAGE, TYPE 'B' GALVANIZED METAL DECK (3 SPAN MINIMUM) BY VULCRAFT OR APPROVED EQUAL. ATTACH DECK TO SUPPORTING ROOF MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS ON A 364 PATTERN AND NO. 10 SIDELAP SCREWS AT 36" o.c. UNLESS NOTED OTHERWISE.
 - PROVIDE 4"x3" 15/16" ANGLE FRAME AROUND ALL ROOF OPENINGS WITH ONE SIDE LARGER THAN 1'-0". SUPPORT AT JOIST OR BEAM WITH 4"x4" 1/2" 16" LONG ANGLE SEAT. ALL ROOF DRAINS SHALL HAVE AN ANGLE FRAME SUPPORT.
 - PROVIDE 5"x3" 1/2" 3/8" ANGLE (LLV) UNDER ALL ROOF TOP UNIT CURBS. PROVIDE BLOCKING AS REQUIRED BETWEEN UNIT AND SUPPORTING STEEL. SUPPORT AT JOIST OR BEAM WITH 4"x4" 1/2" 16" LONG ANGLE SEAT.
 - SPLICE DECK AT TEMPORARY ACCESS TUNNEL. COORDINATE WITH DRAWING A0.05.

BEARING PLATE SCHEDULE

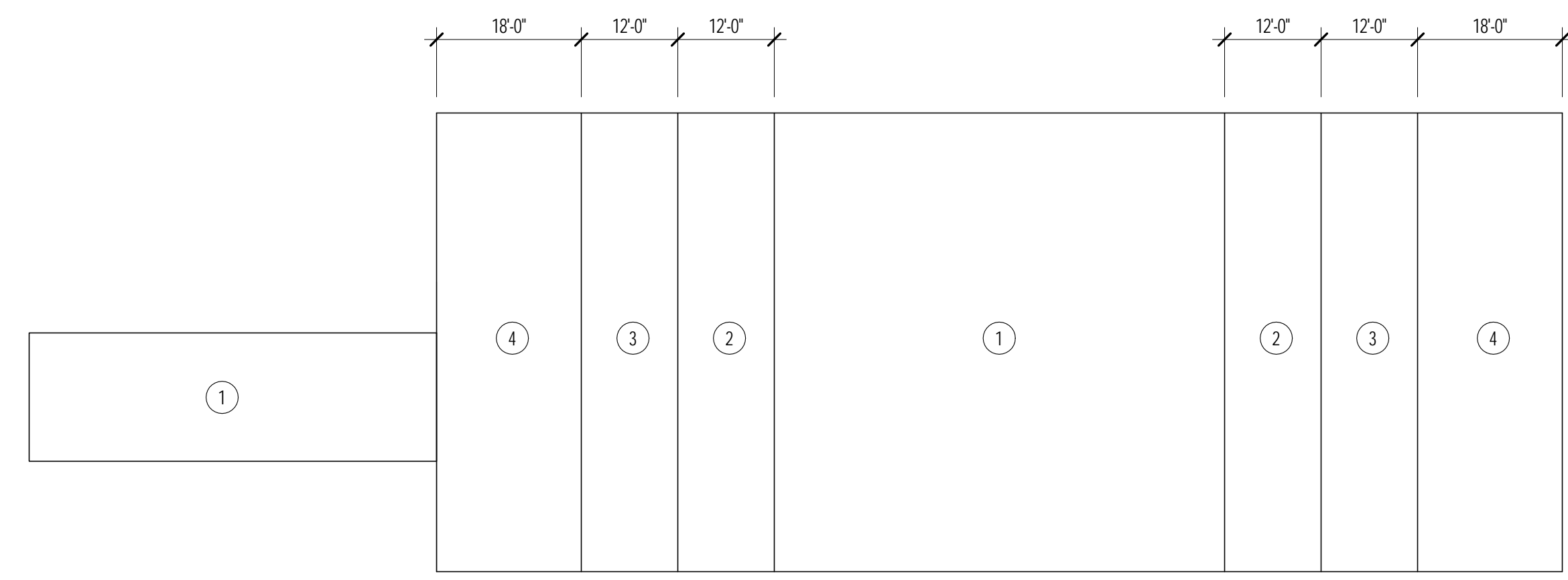
MARK	SIZE	REMARKS
BP1	7"x7"x12"	
BP2	7"x9"x8"	
BP3	12"x8"x3/4"	
BP4	22"x12"x3/4"	
BP5	10"x12"x3/4"	
BP6	7"x12"x1"	

- NOTES:**
- REFER TO SHEET S3.02 FOR BEAM BEARING DETAILS.
 - FIRST DIMENSION SHALL BE ORIENTED PARALLEL TO BEAM OR JOIST SPAN UNLESS NOTED OTHERWISE.

LINTEL SCHEDULE

MARK	SIZE	BEARING PLATE	REMARKS
L-1	W8x21 WITH BOTTOM PLATE + 6"x6"x3/8" ANGLE	7"x7"x12"	BEAR ANGLE 6" ON WALL AT EACH END
L-2	W8x18 WITH HUNG PLATE	7"x7"x12"	
L-3	8"x4" 7/16" ANGLE + 6"x6"x3/8" ANGLE WITH BOTTOM PLATE	NA	BEAR ANGLE 6" ON WALL AT EACH END (LH)
L-4	W8x21 WITH HUNG PLATE + 6"x6"x3/8" ANGLE	7"x7"x12"	BEAR ANGLE 6" ON WALL AT EACH END
L-5	W8x21 WITH HUNG PLATE	9"x12"x3/4"	BEAR BEAM 1 1/2" ON WALL

- NOTES:**
- REFER TO MASONRY NOTES ON SHEET S0.01 FOR LINTELS NOT REFERENCED ON PLANS.
 - INSTALL LOOSE ANGLE LINTELS OVER ALL MECHANICAL DUCT OPENINGS THROUGH MASONRY WALLS. REFER TO MASONRY NOTES ON SHEET S0.01 FOR SIZE.
 - BEARING PLATE SIZE APPLIES TO EACH END UNLESS NOTED OTHERWISE.
 - REFER TO SHEET S3.02 FOR LINTEL CONFIGURATIONS AND BEAM BEARING DETAILS.
 - FIRST COURSE OF CMU ABOVE STEEL BEAM SHALL BE GROUTED SOLID.
 - LINTELS WITH HUNG PLATE SHALL HAVE BOTTOM OF BEAM LOCATED 8" ABOVE OPENING UNLESS NOTED OTHERWISE.
 - LINTELS WITH CLEAR SPANS GREATER THAN 6'-4" SHALL HAVE 1/2" DIAMETER x 4" LONG HEADED STUDS WELDED TO THE TOP FLANGE AT 24" o.c.
 - LINTELS SHALL BE POSITIONED AT THE CENTERLINE OF THE CMU WALL UNLESS NOTED OTHERWISE.

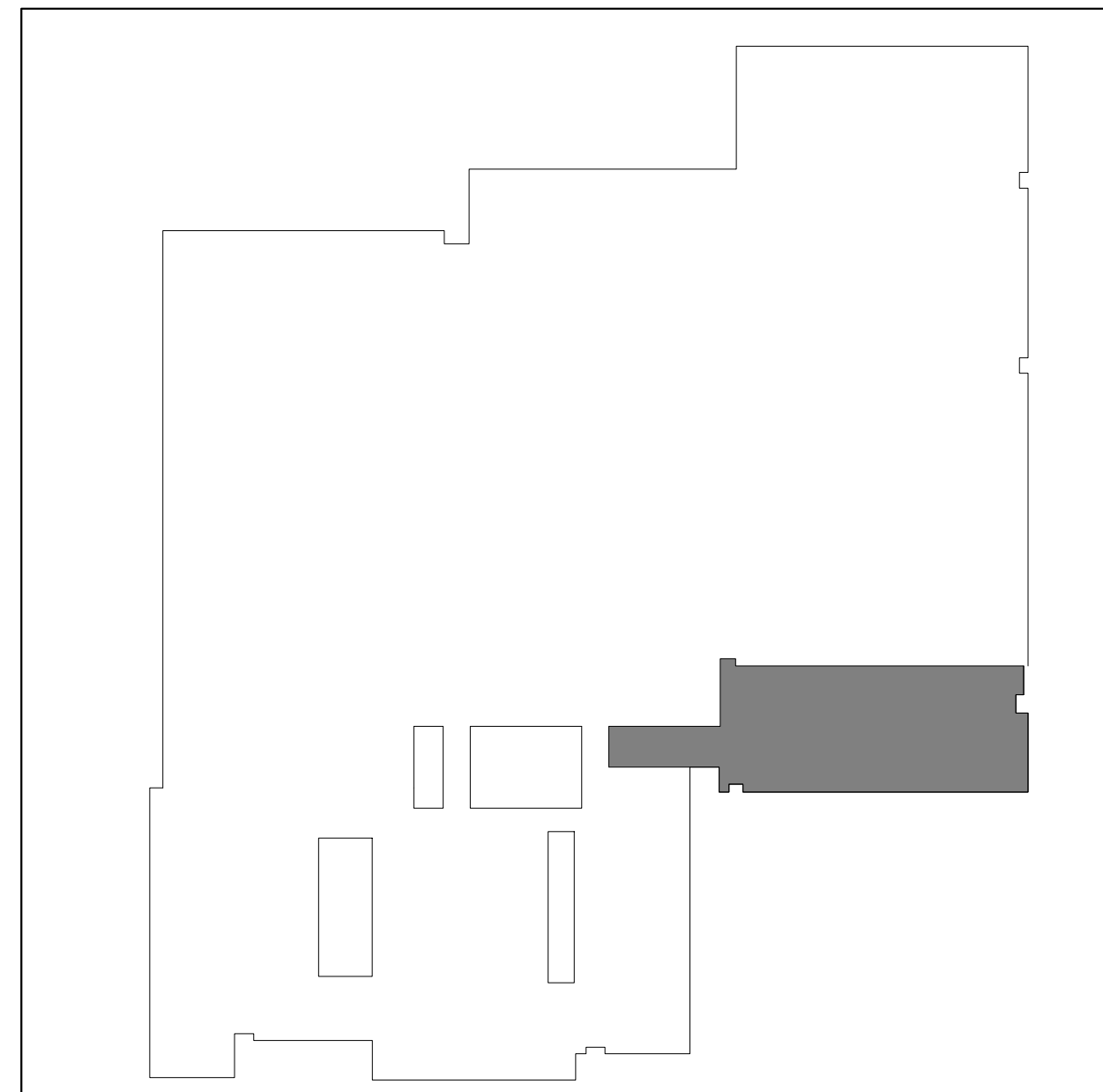


ROOF DIAPHRAM DIAGRAM

NOT TO SCALE

ROOF DIAPHRAM SCHEDULE

ZONE	WELD PATTERN AT DECK SUPPORT	#10 SIDELAP SCREWS PER SPAN
1	36/4	1
2	36/4	2
3	36/4	3
4	36/7	3



KEY PLAN
SCALE: N.T.S.

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CROFTON MIDDLE SCHOOL ADDITION

ANNE ARUNDEL COUNTY PUBLIC SCHOOLS

SHEET TITLE:
ROOF FRAMING PLAN - AREA A

PROJECT NO:
21-112

DATE:
07/07/2022

SCALE:
As indicated

SHEET NO:

S1.03

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CROFTON MIDDLE SCHOOL ADDITION

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SHEET TITLE:
FRAMING PLAN - AREA B - NEW WORK

PROJECT NO:

21-112

DATE:

07/07/2022

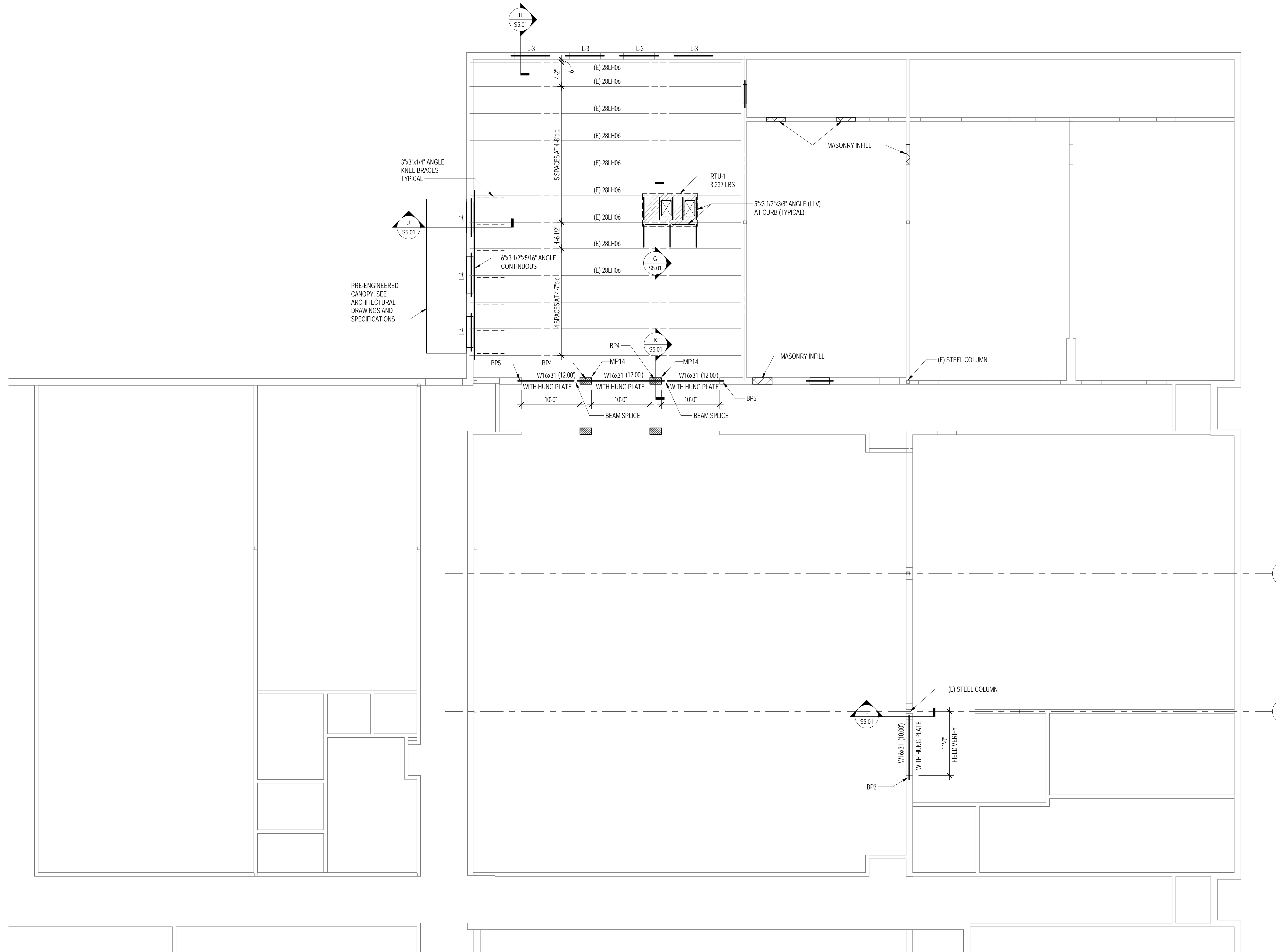
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SHEET NO:

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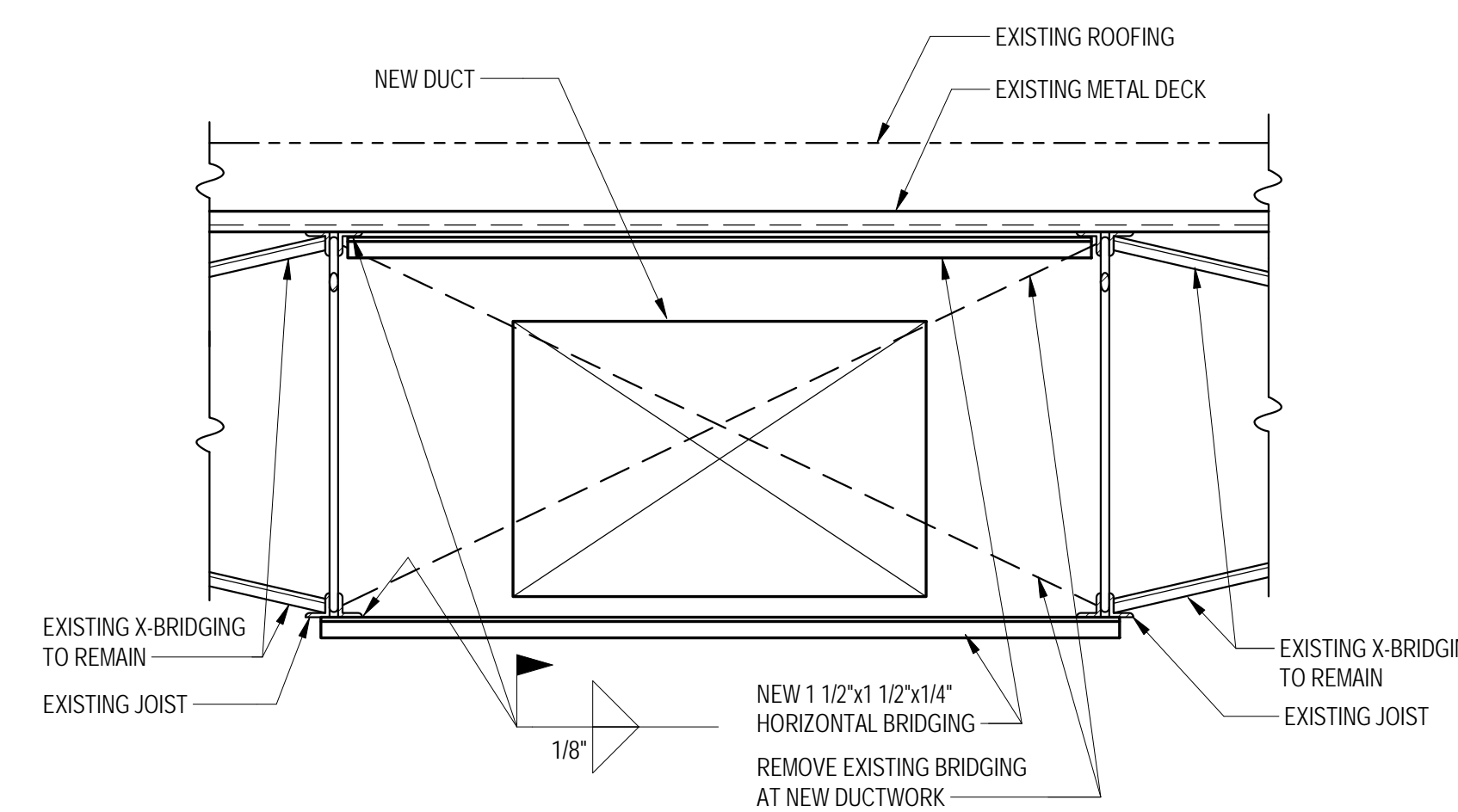
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FRAMING PLAN - NEW WORK - AREA B

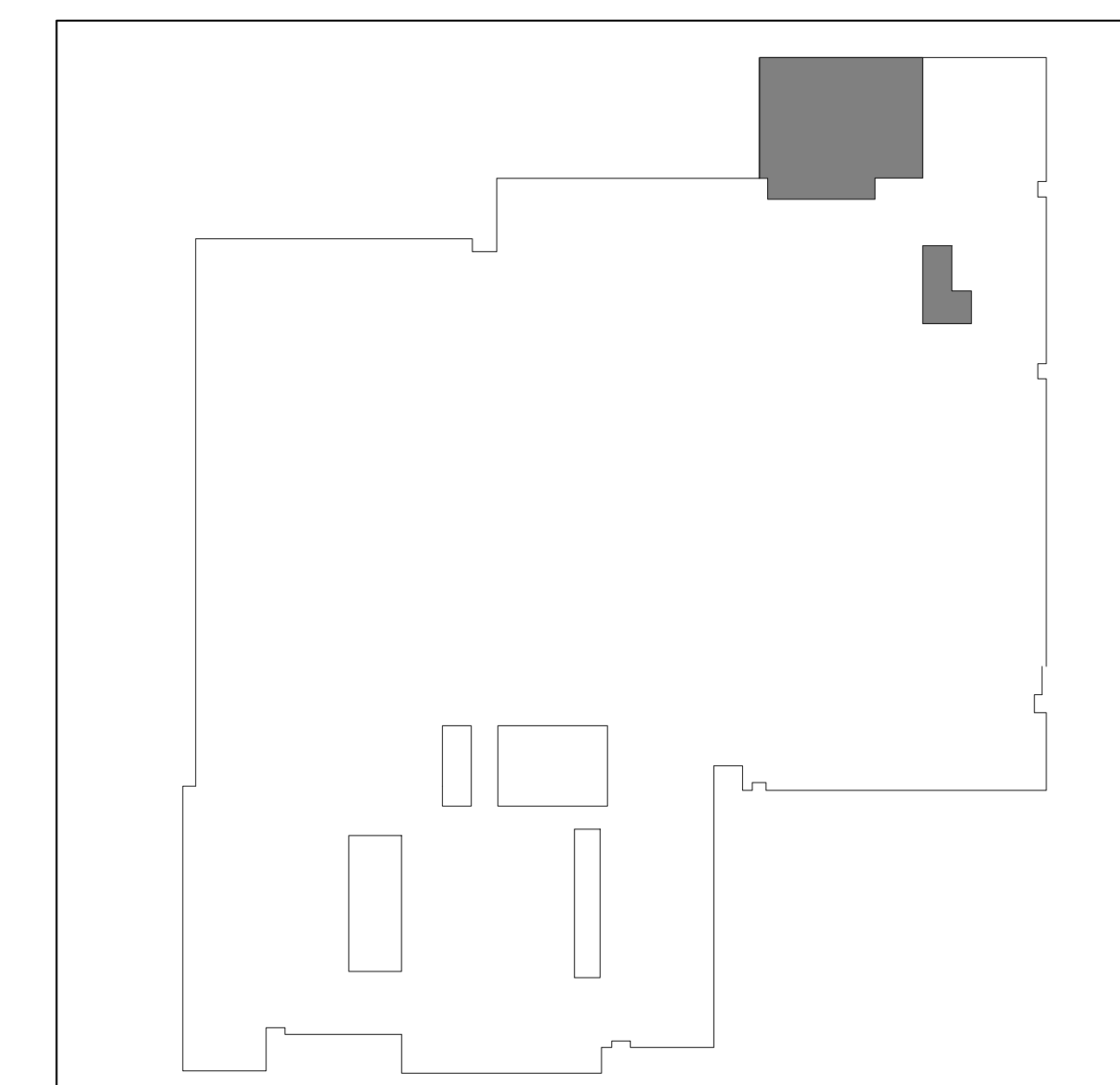
SCALE: 1/8" = 1'-0"

- NOTES:
- (E) DENOTES EXISTING FRAMING MEMBER.
 - NEW WORK SHOWN BOLD.
 - EXISTING ROOF DECK IS 2" TO 9" INSULATING CONCRETE REINFORCED WITH 12 GAGE WWF OVER 2" INSULATION BOARD OVER 1 5/16x26 GAGE CORRUGATED STEEL DECK WITH FLUTES FILLED INSULATING CONCRETE.
 - SEE SECTION ON THIS SHEET FOR JOIST BRIDGING MODIFICATION AT DUCTWORK CONFLICT.

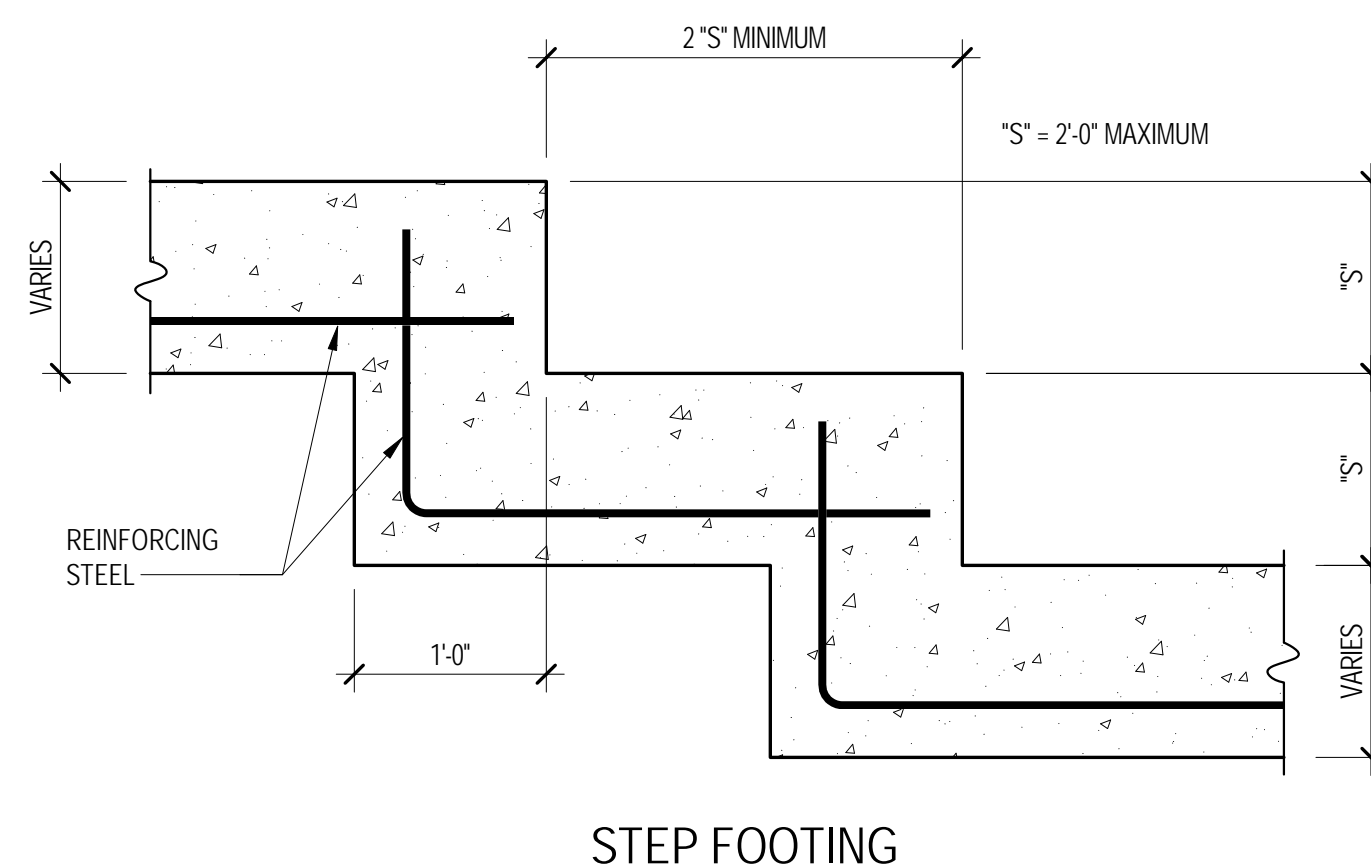


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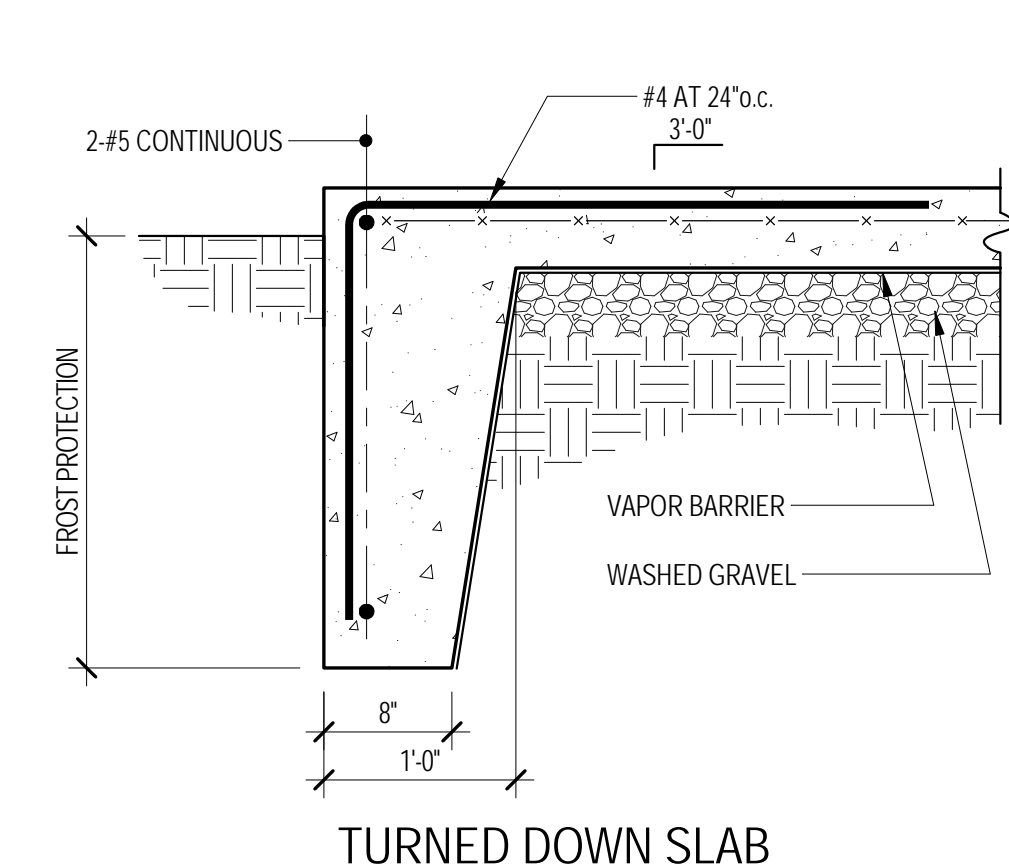
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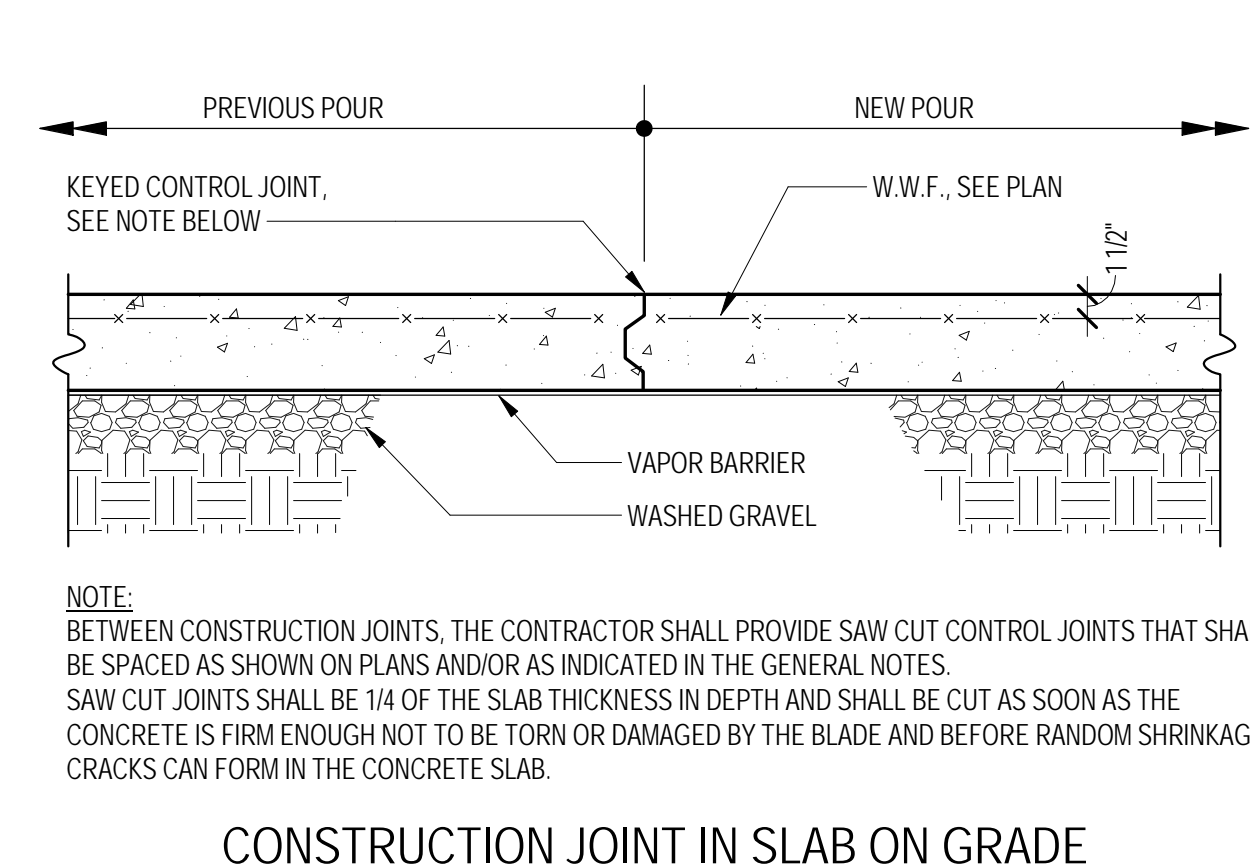
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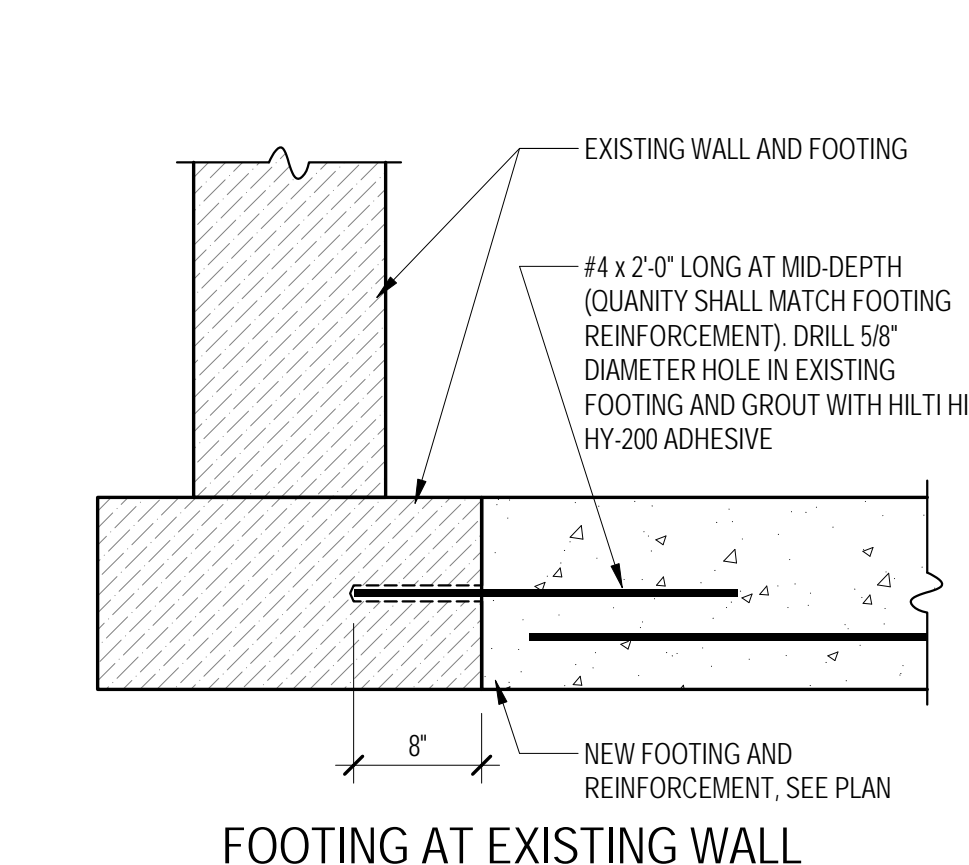
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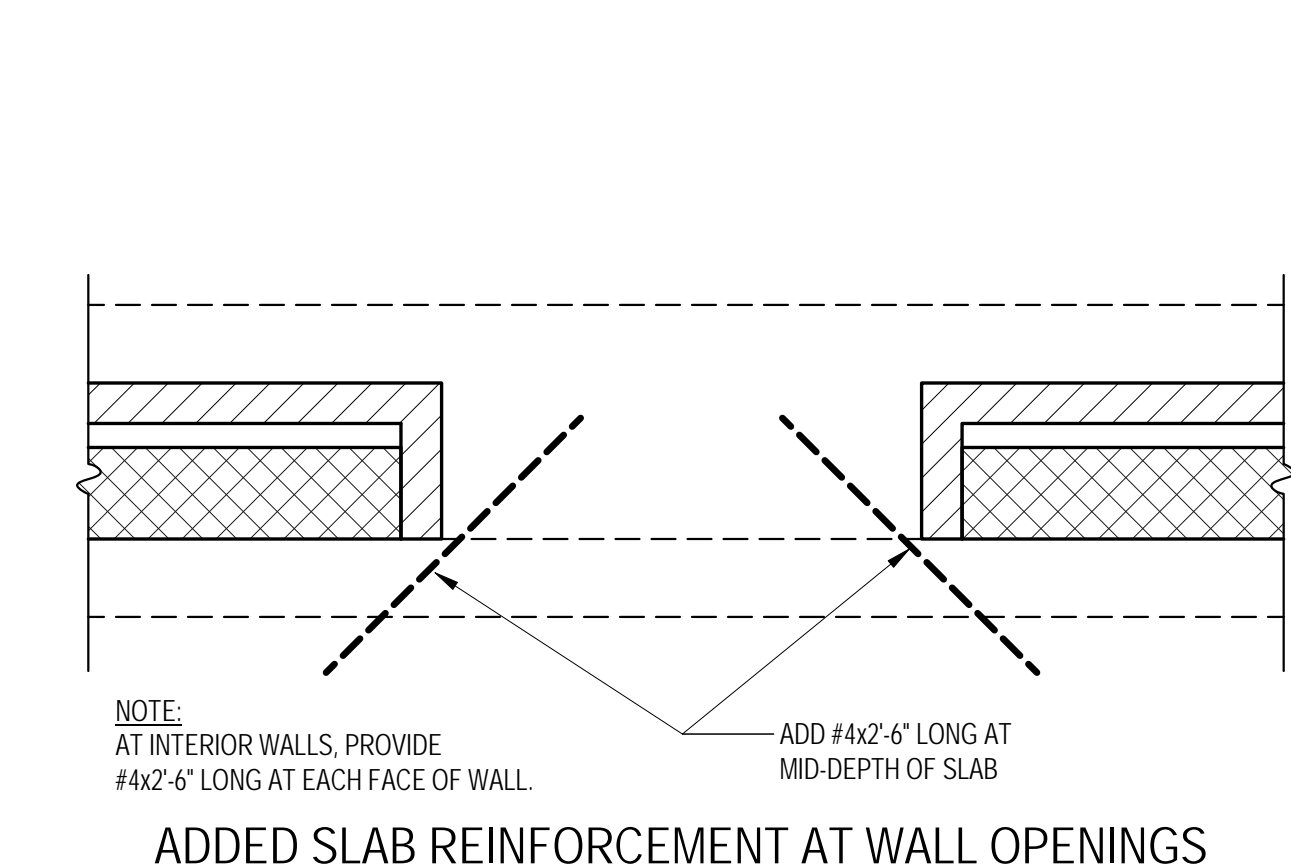
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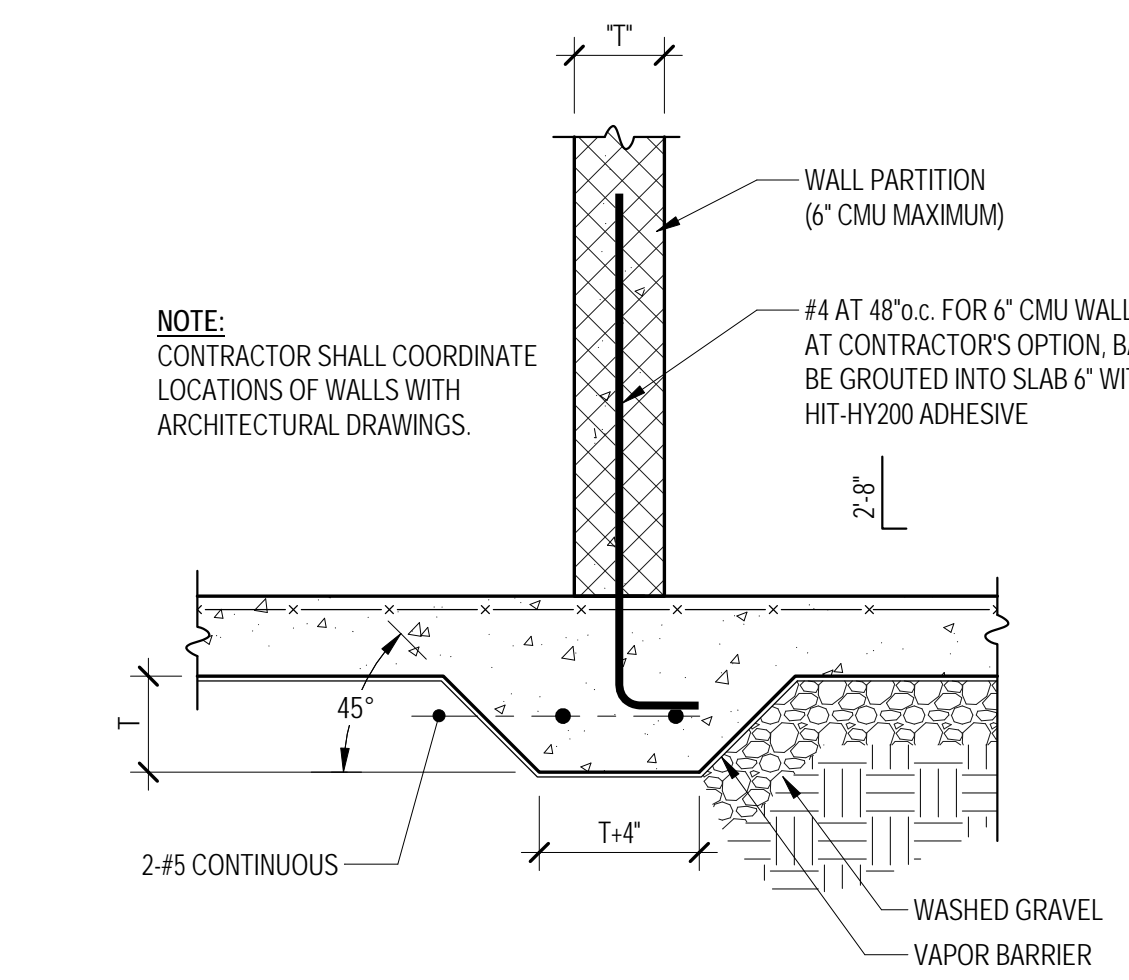
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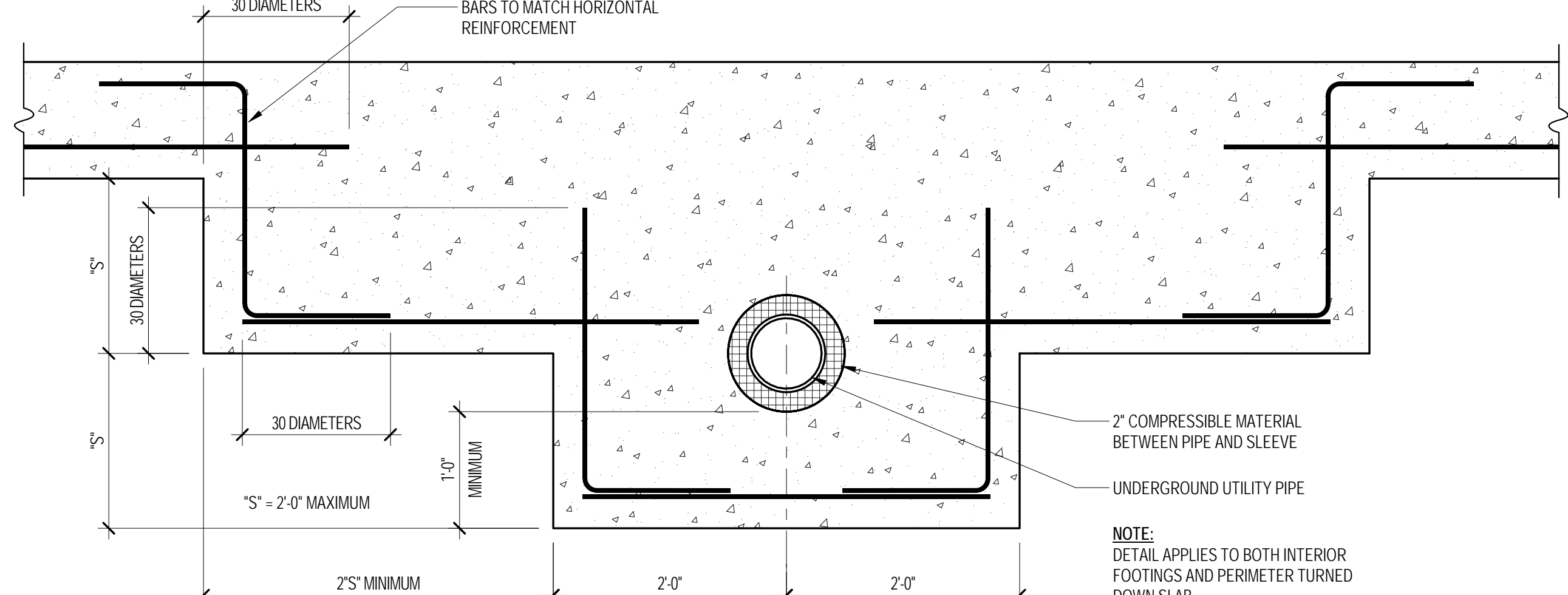
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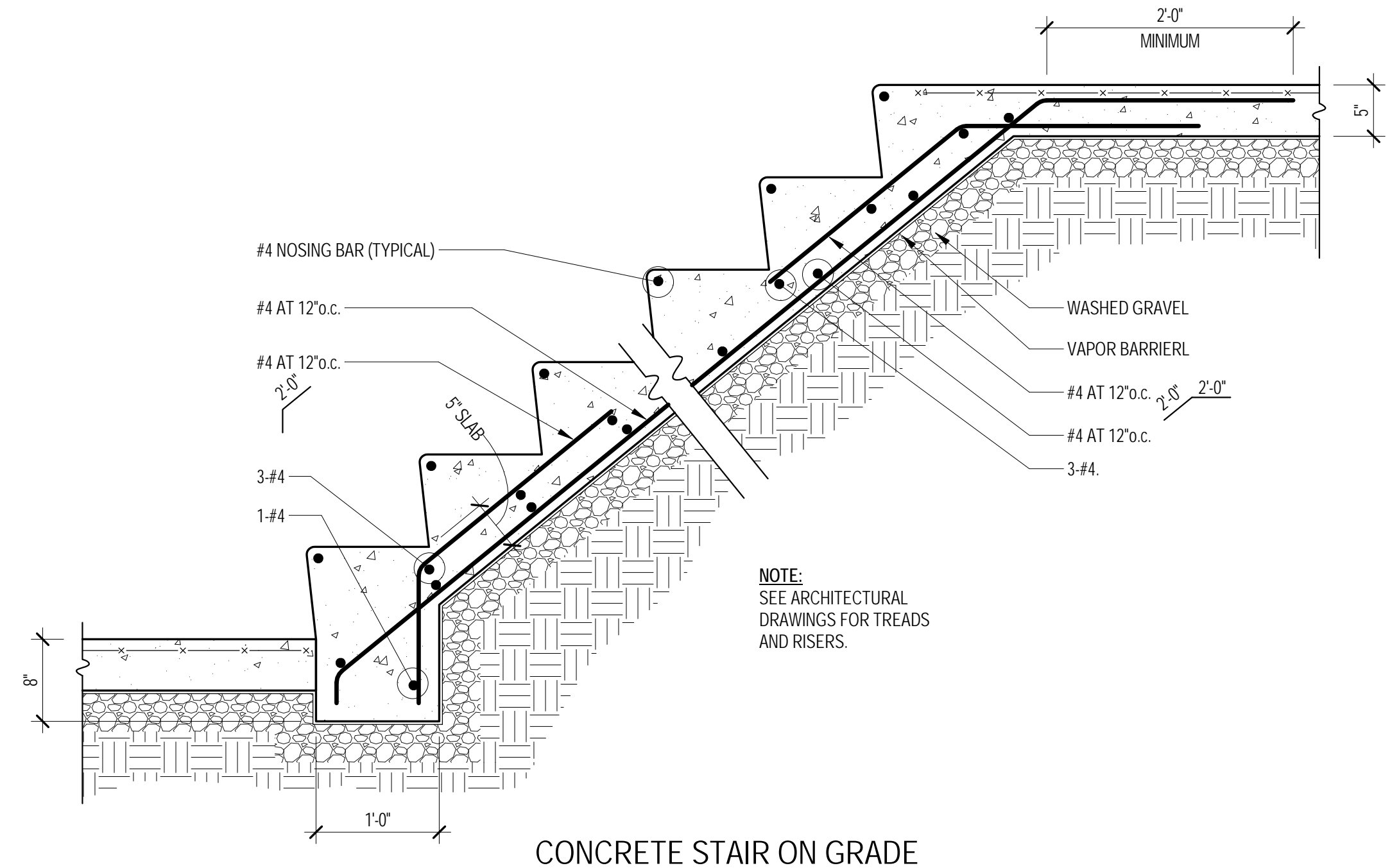
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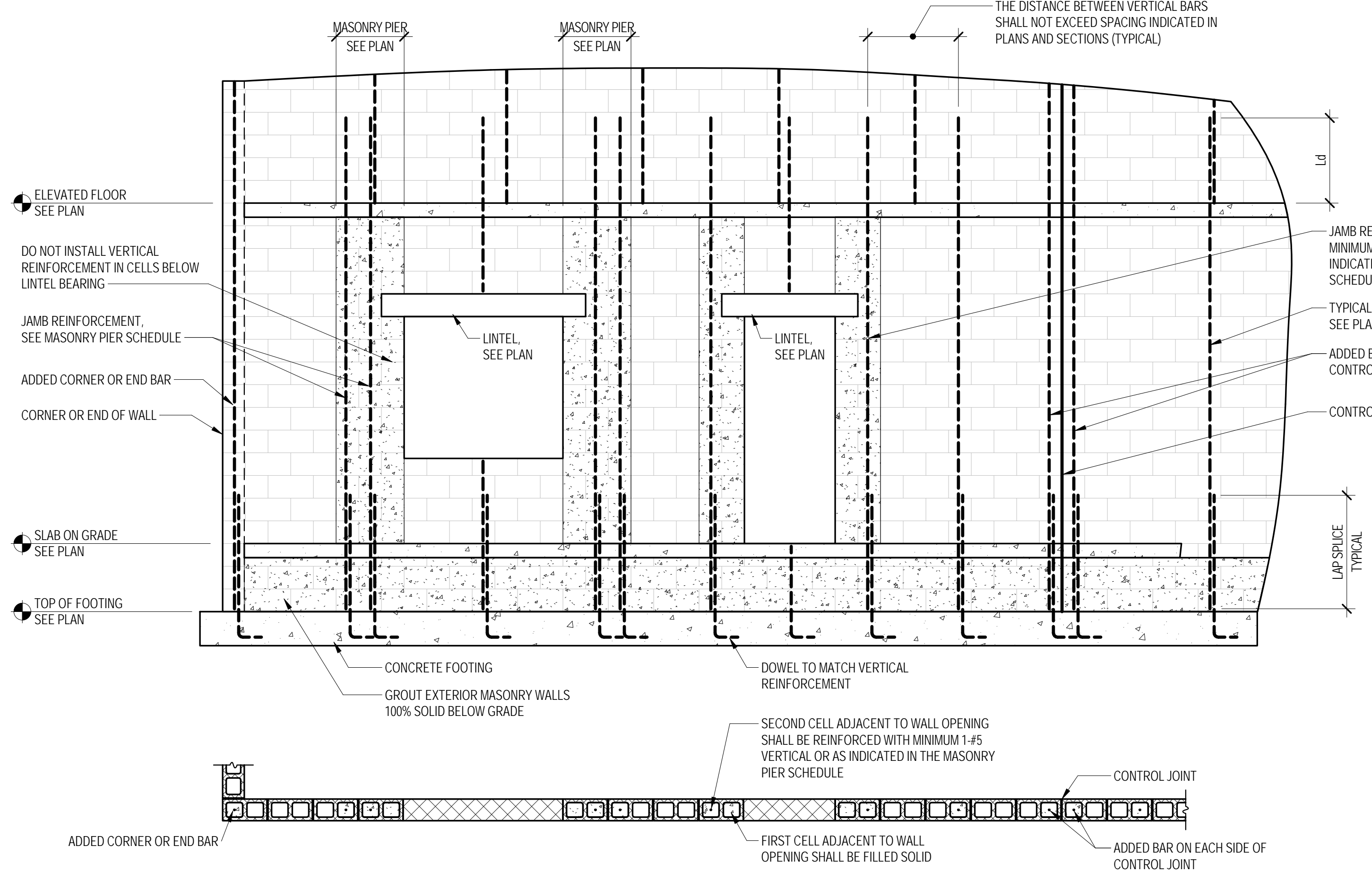
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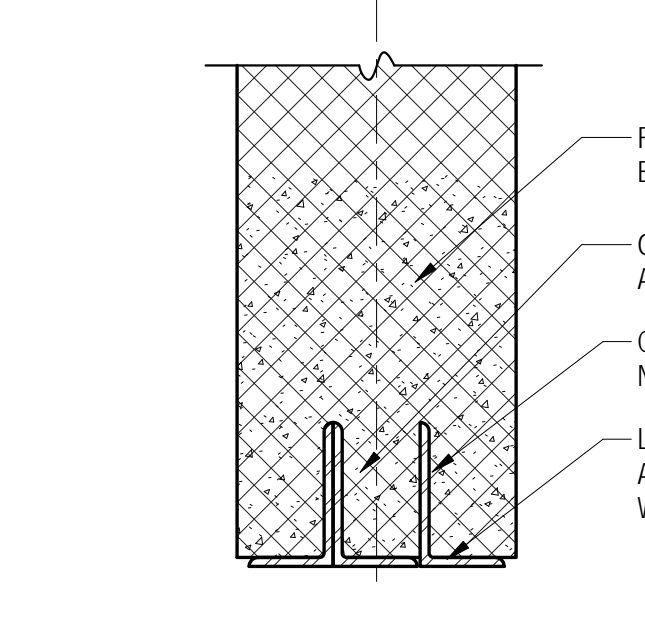
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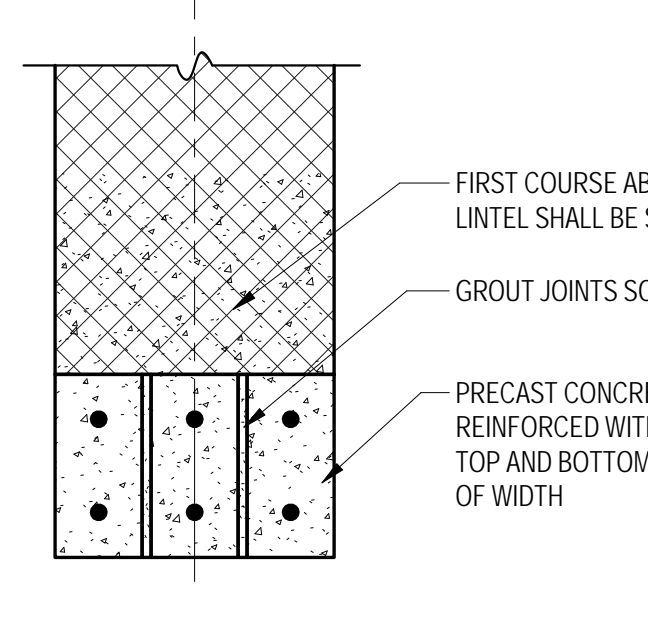
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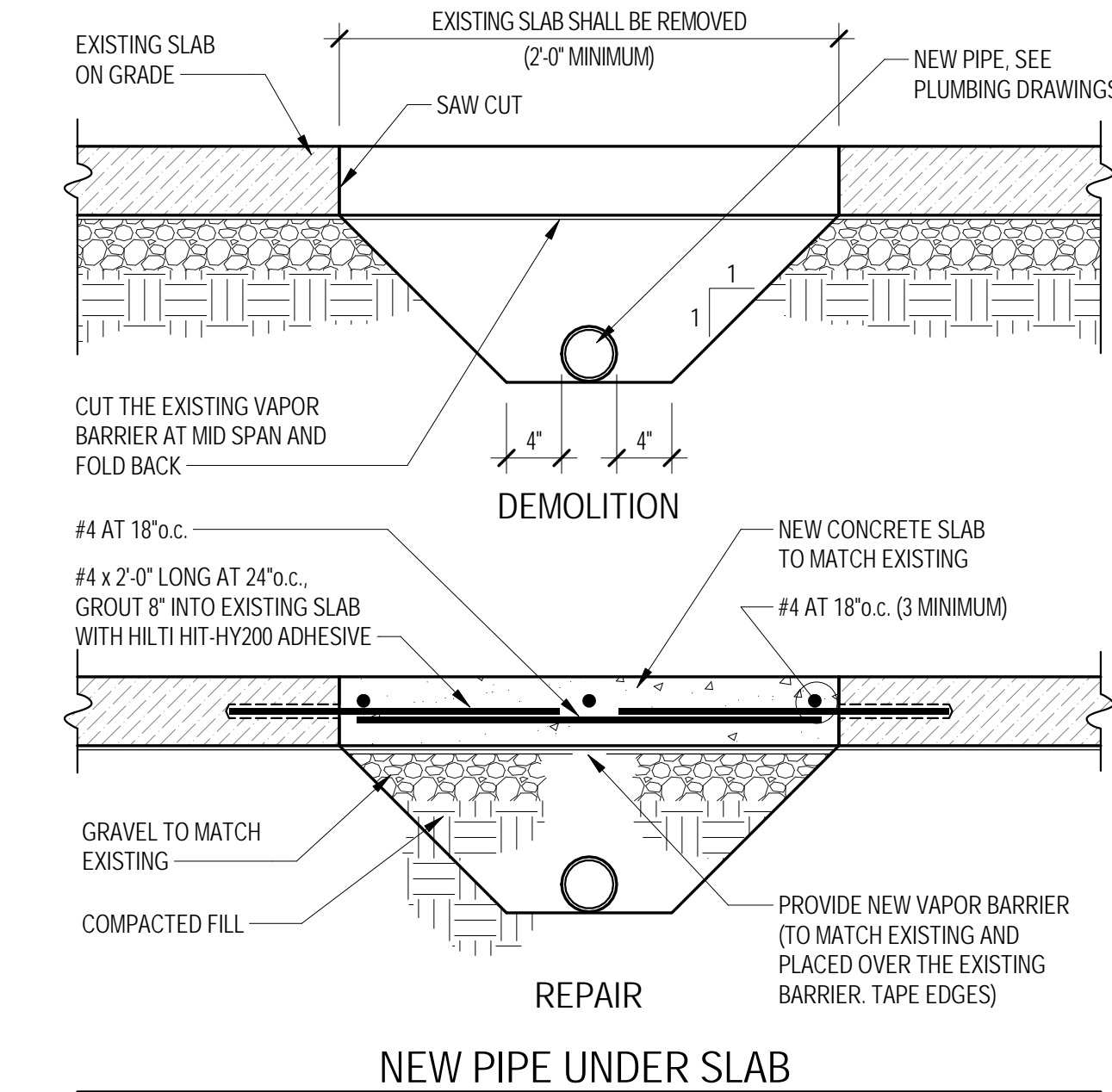
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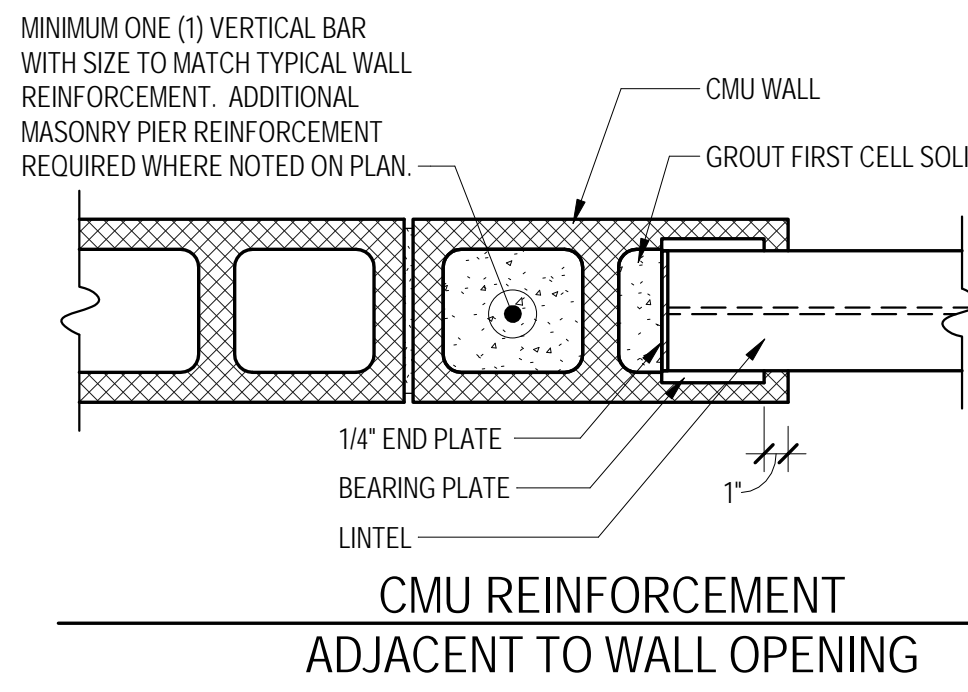
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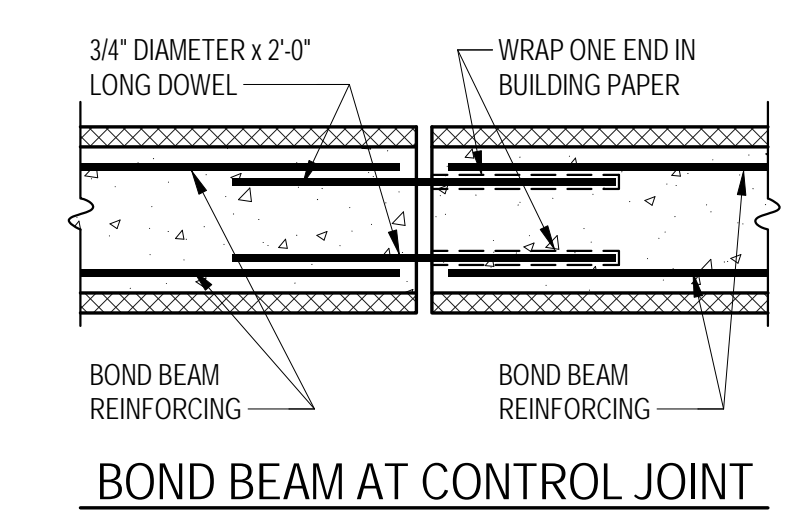
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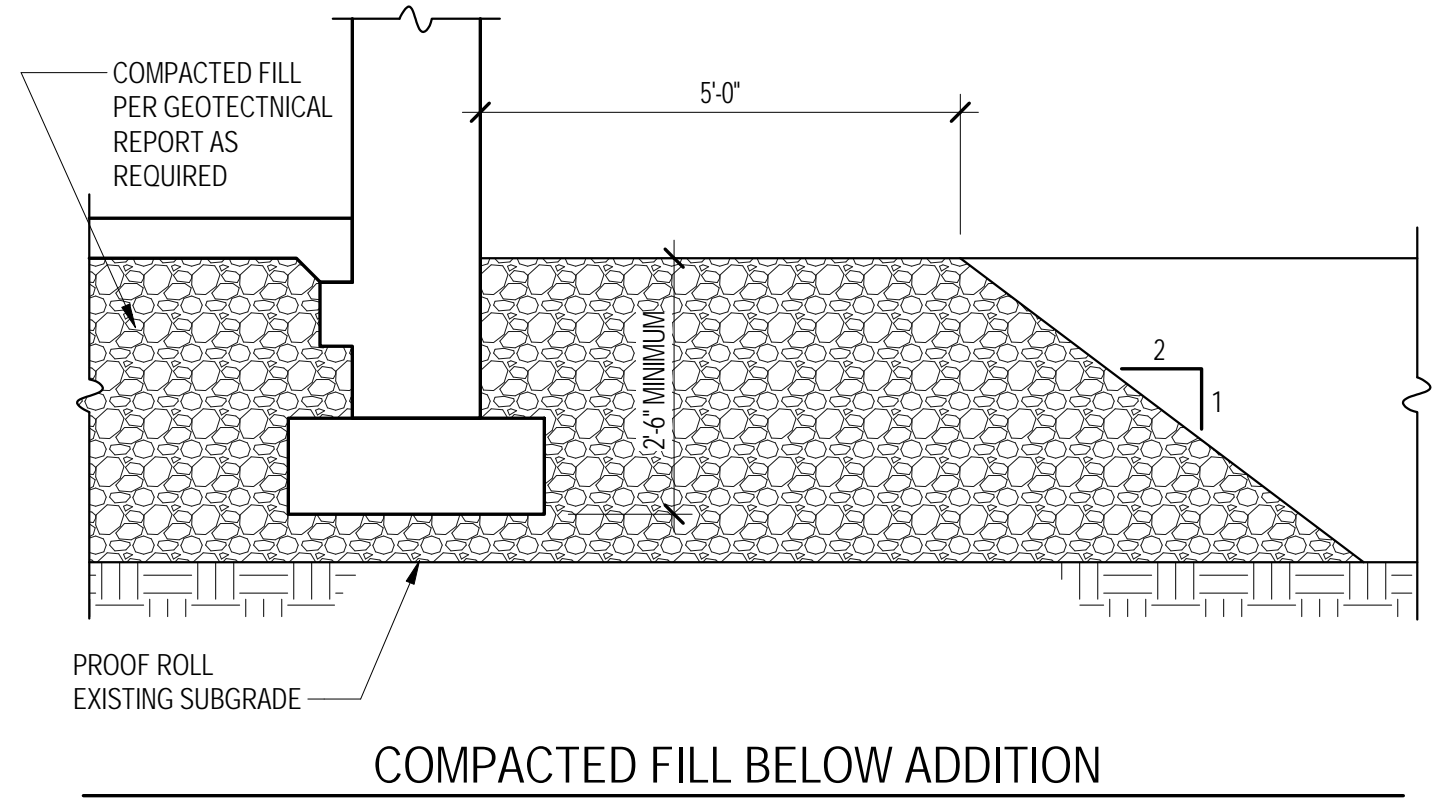
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S3.01 NOT TO SCALE



N TYPICAL DETAIL
S3.01 NOT TO SCALE



O TYPICAL DETAIL
S3.01 NOT TO SCALE



P TYPICAL DETAIL
S3.01 SCALE: 1/2" = 1'-0"

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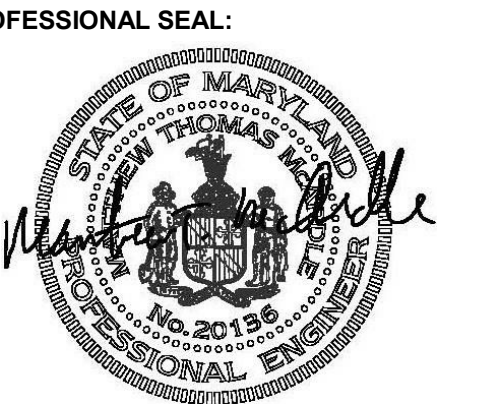
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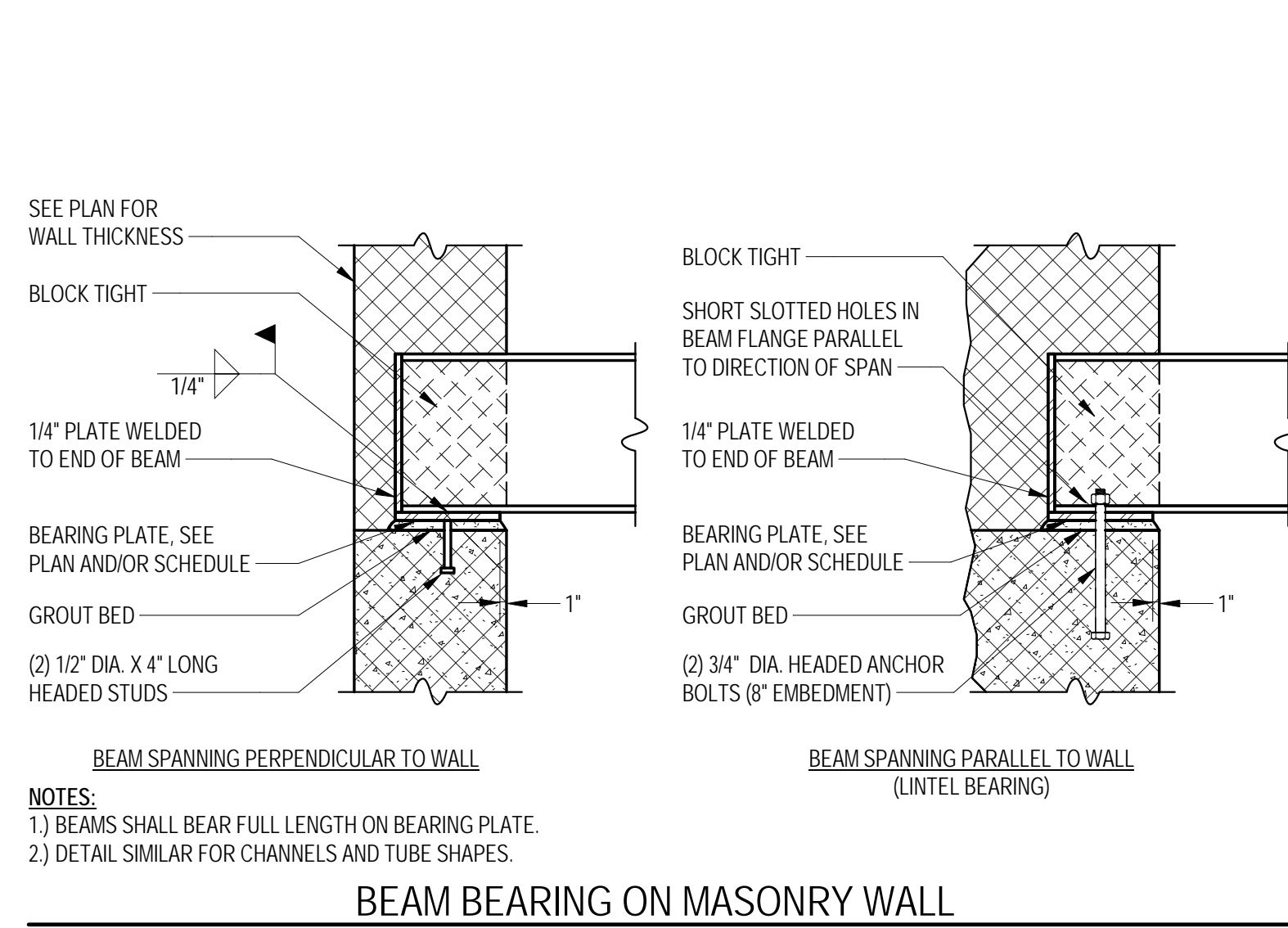
CROFTON MIDDLE SCHOOL ADDITION

ANNE ARUNDEL COUNTY PUBLIC SCHOOLS

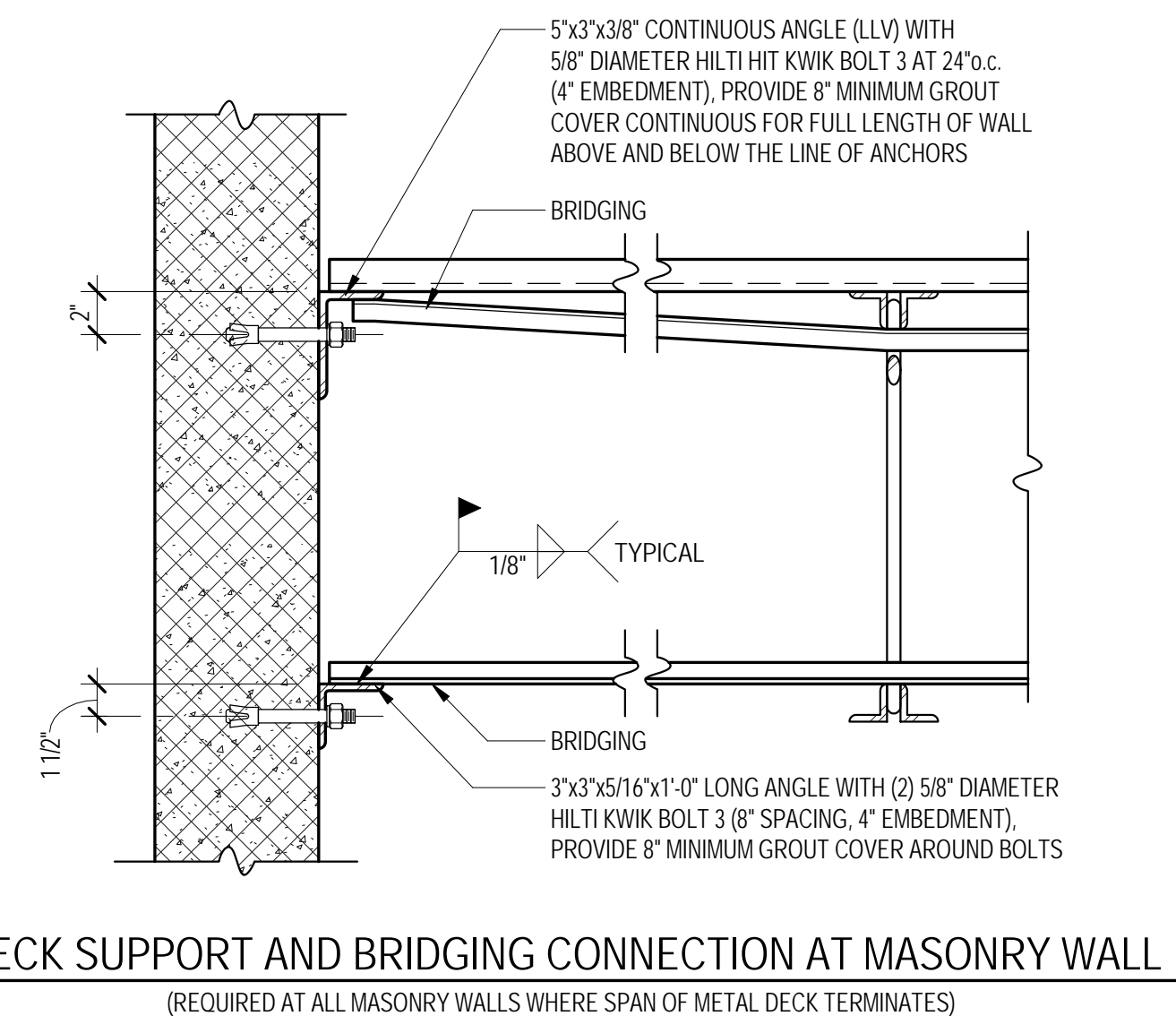
SHEET TITLE:
TYPICAL DETAILS

PROJECT NO: 21-112
DATE: 07/07/2022
SCALE: As indicated
SHEET NO:

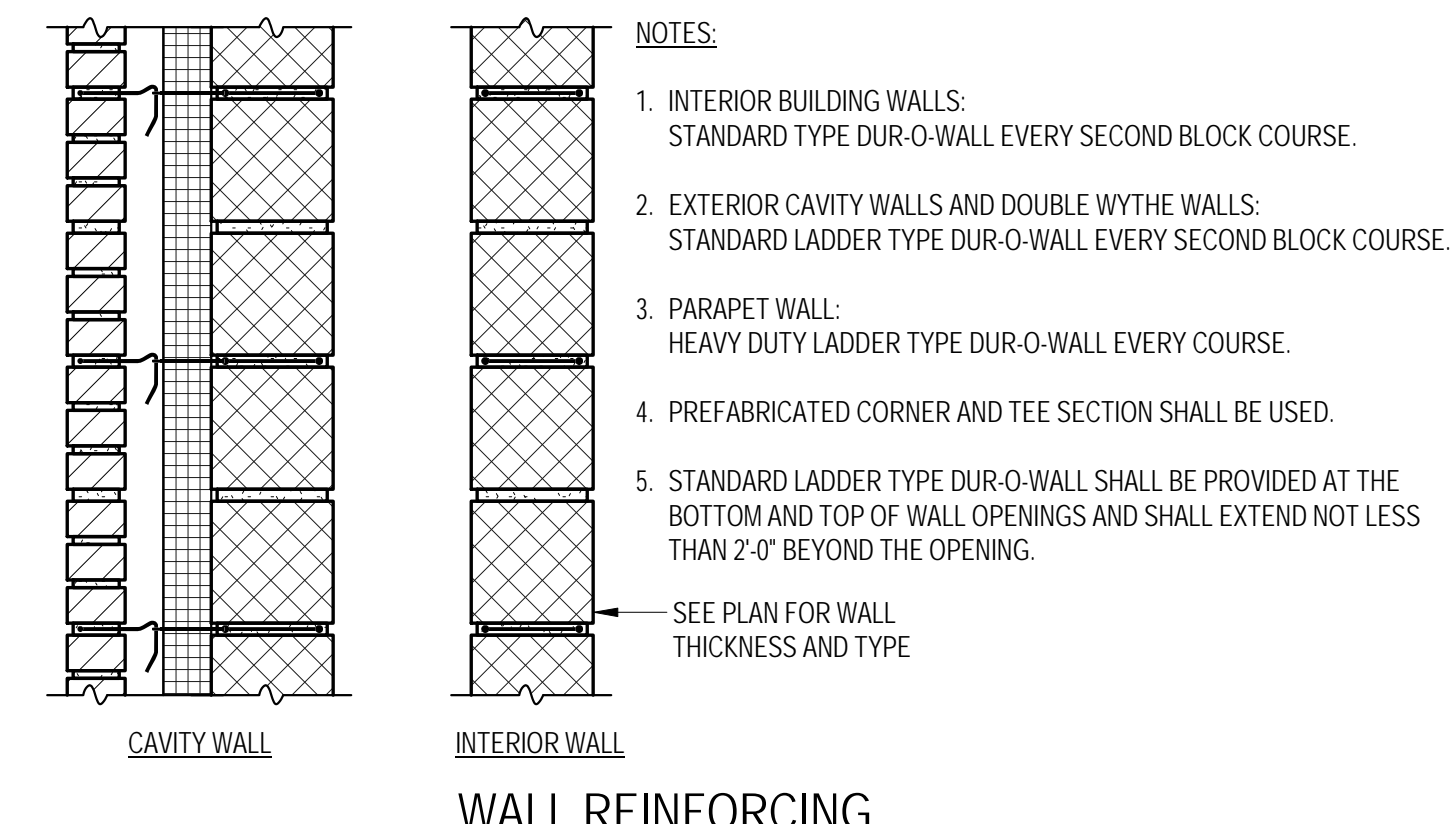
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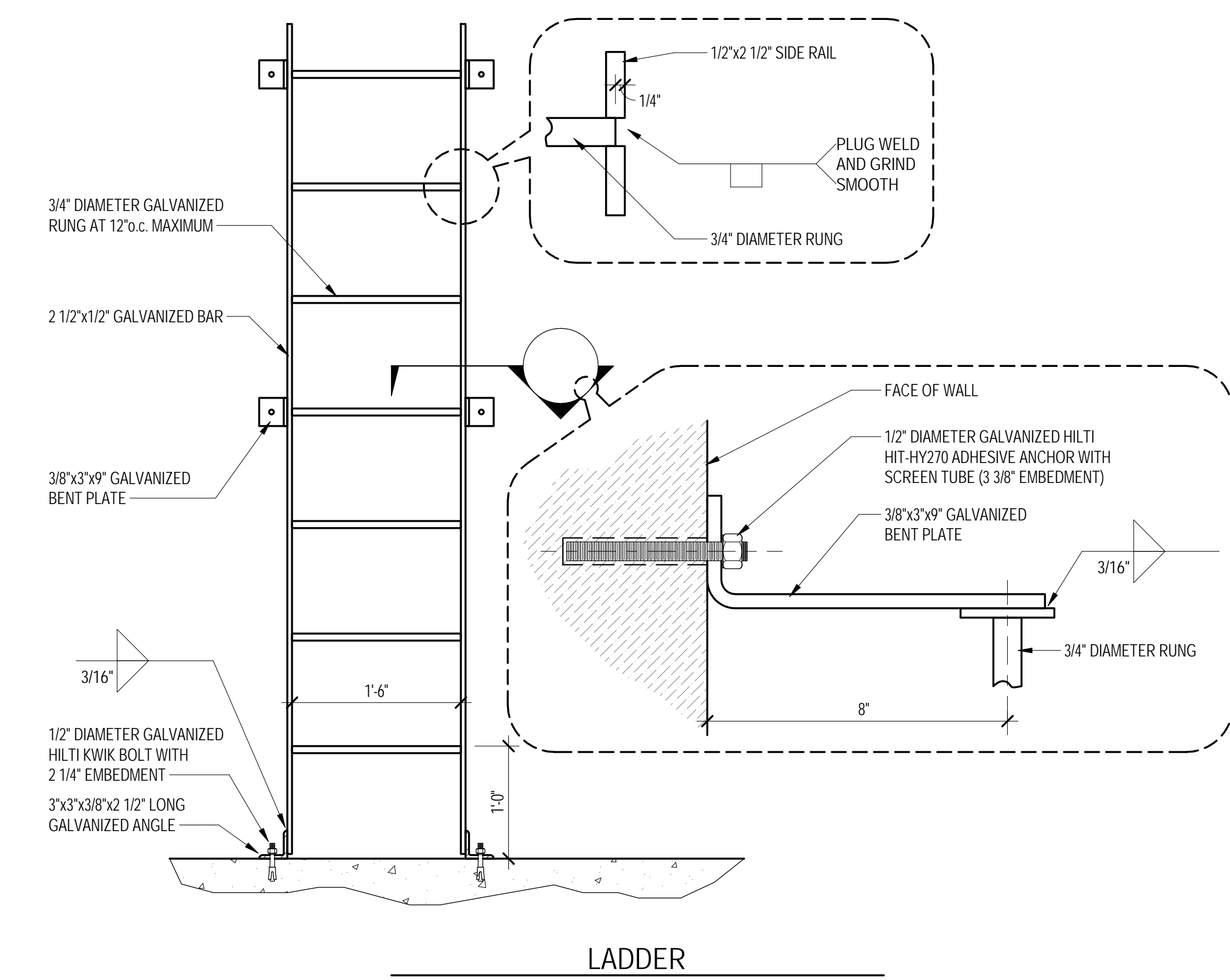
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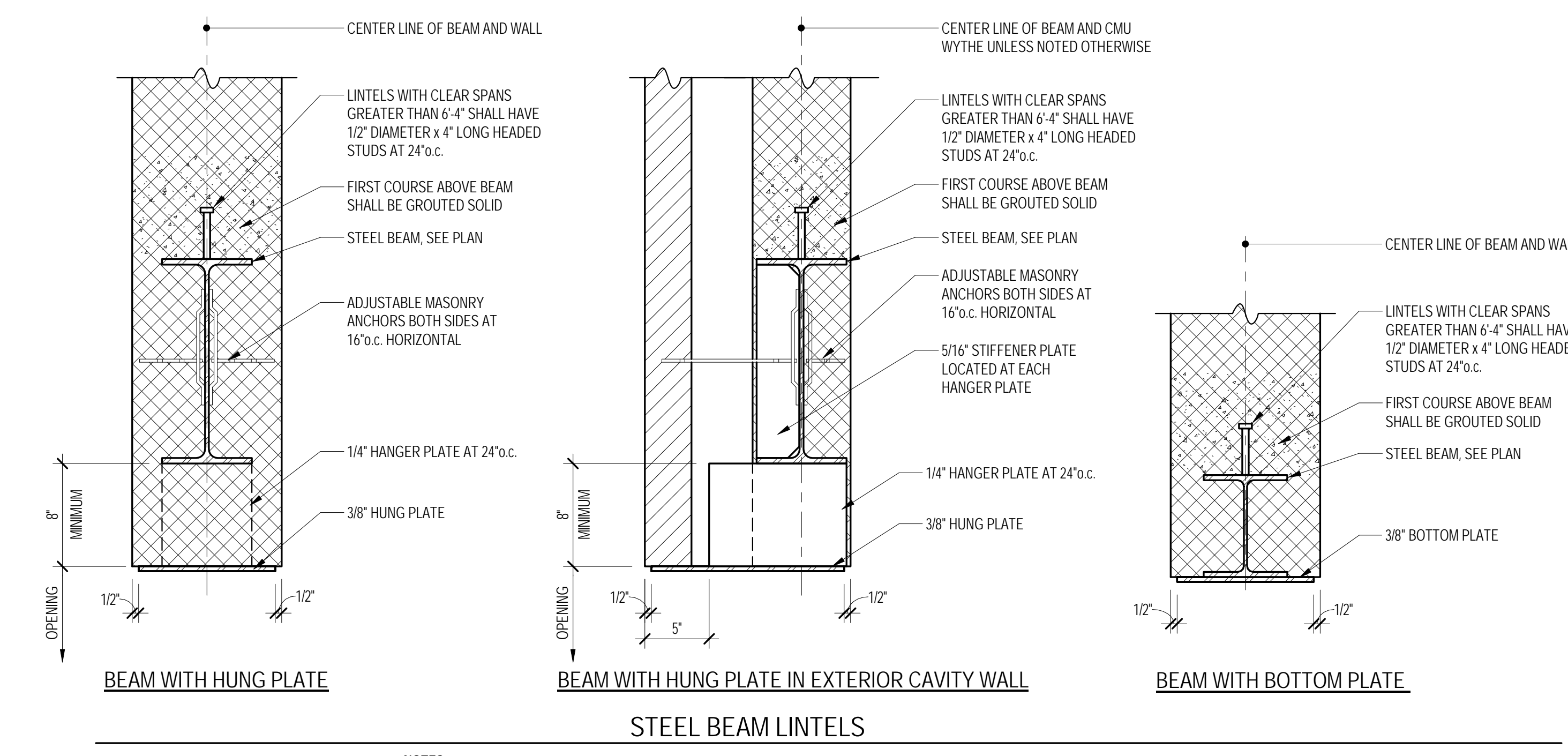
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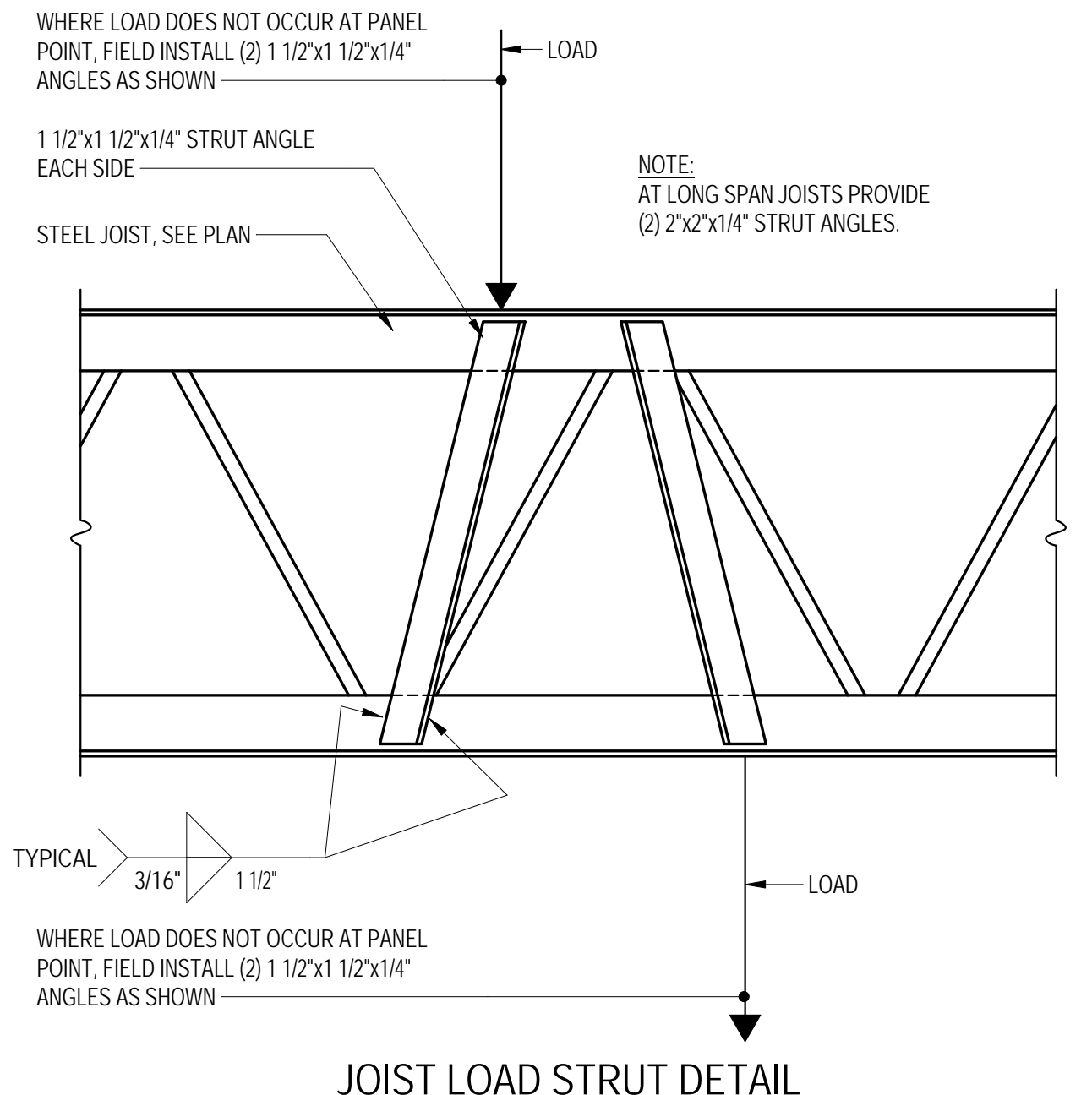
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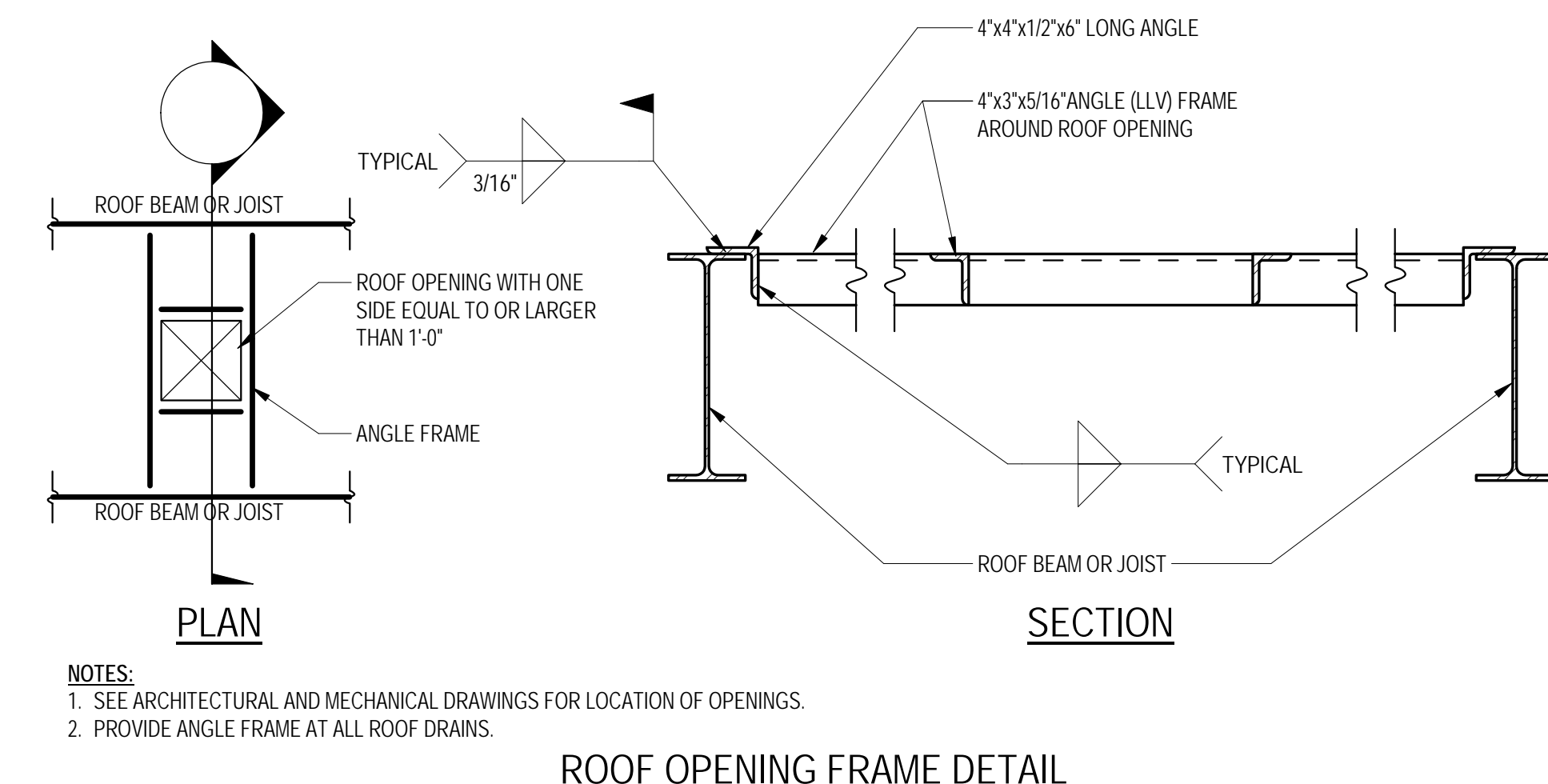
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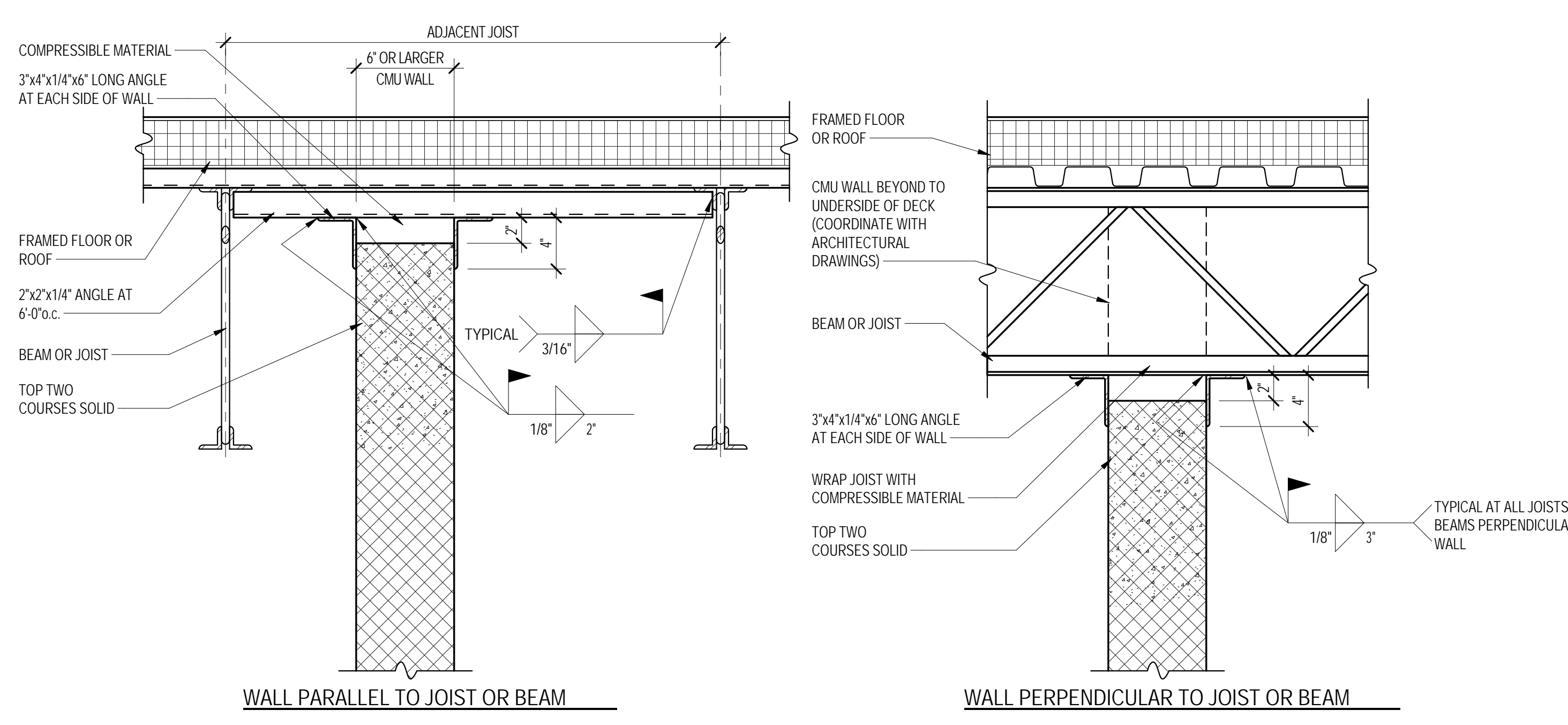
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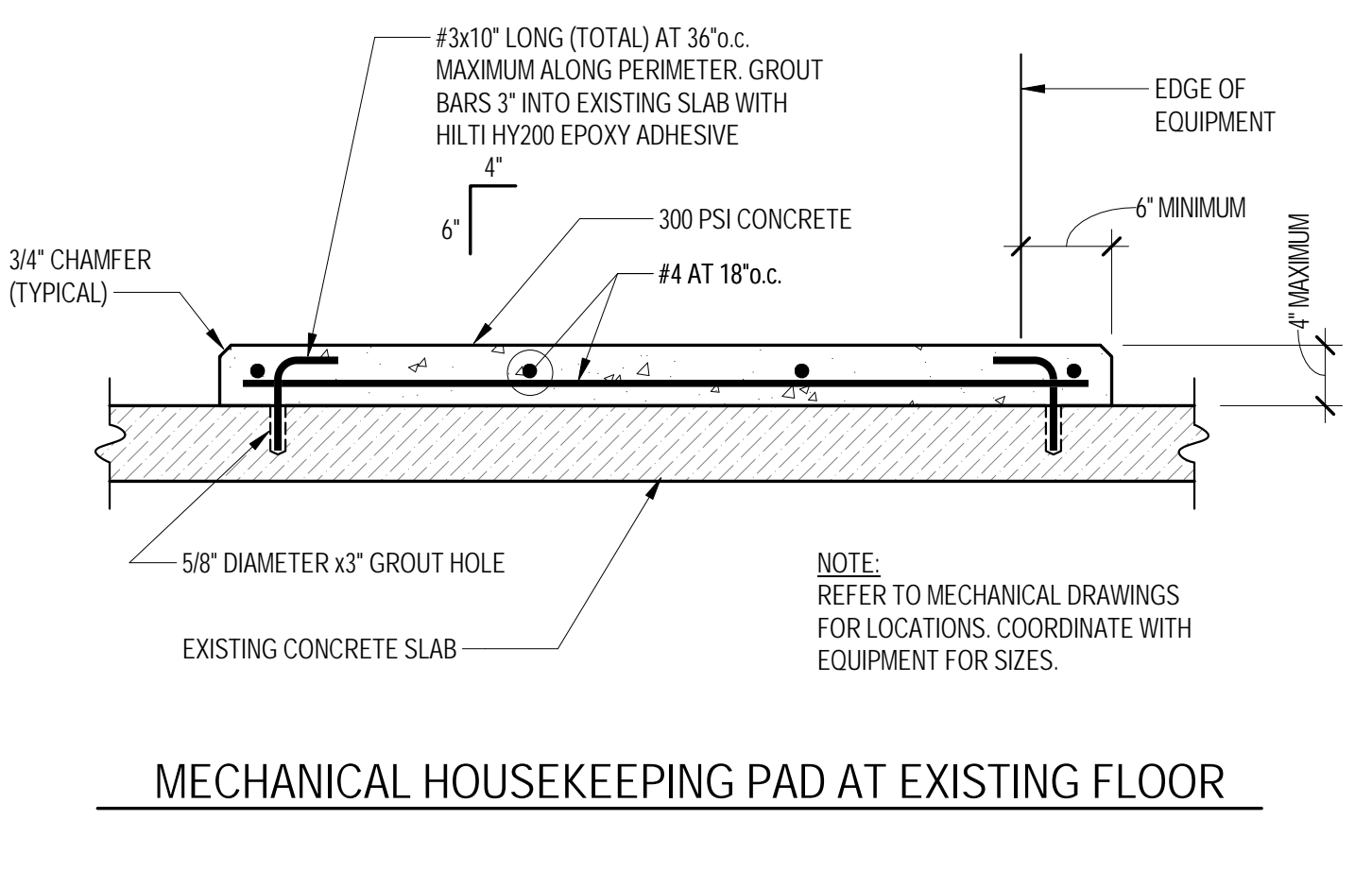
F TYPICAL DETAIL
S3.02 NOT TO SCALE



G TYPICAL DETAIL
S3.02 NOT TO SCALE



H TYPICAL DETAIL
S3.02 NOT TO SCALE



J TYPICAL DETAIL
S3.02 NOT TO SCALE

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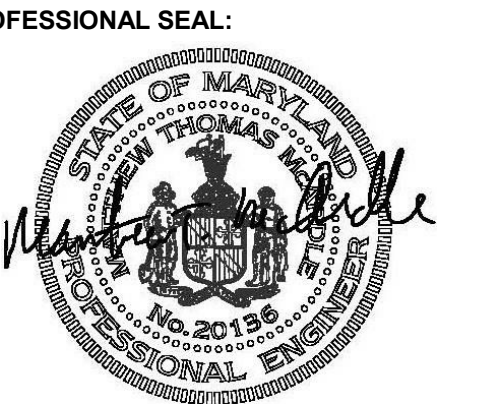
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CROFTON MIDDLE SCHOOL ADDITION

ANNE ARUNDEL COUNTY PUBLIC SCHOOLS

SHEET TITLE:
TYPICAL DETAILS

PROJECT NO: 21-112	
DATE: 07/07/2022	
SCALE: As indicated	
SHEET NO:	

S3.02

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CROFTON MIDDLE SCHOOL ADDITION

ANNE ARUNDEL COUNTY PUBLIC SCHOOLS

SHEET TITLE:
FOUNDATION SECTIONS

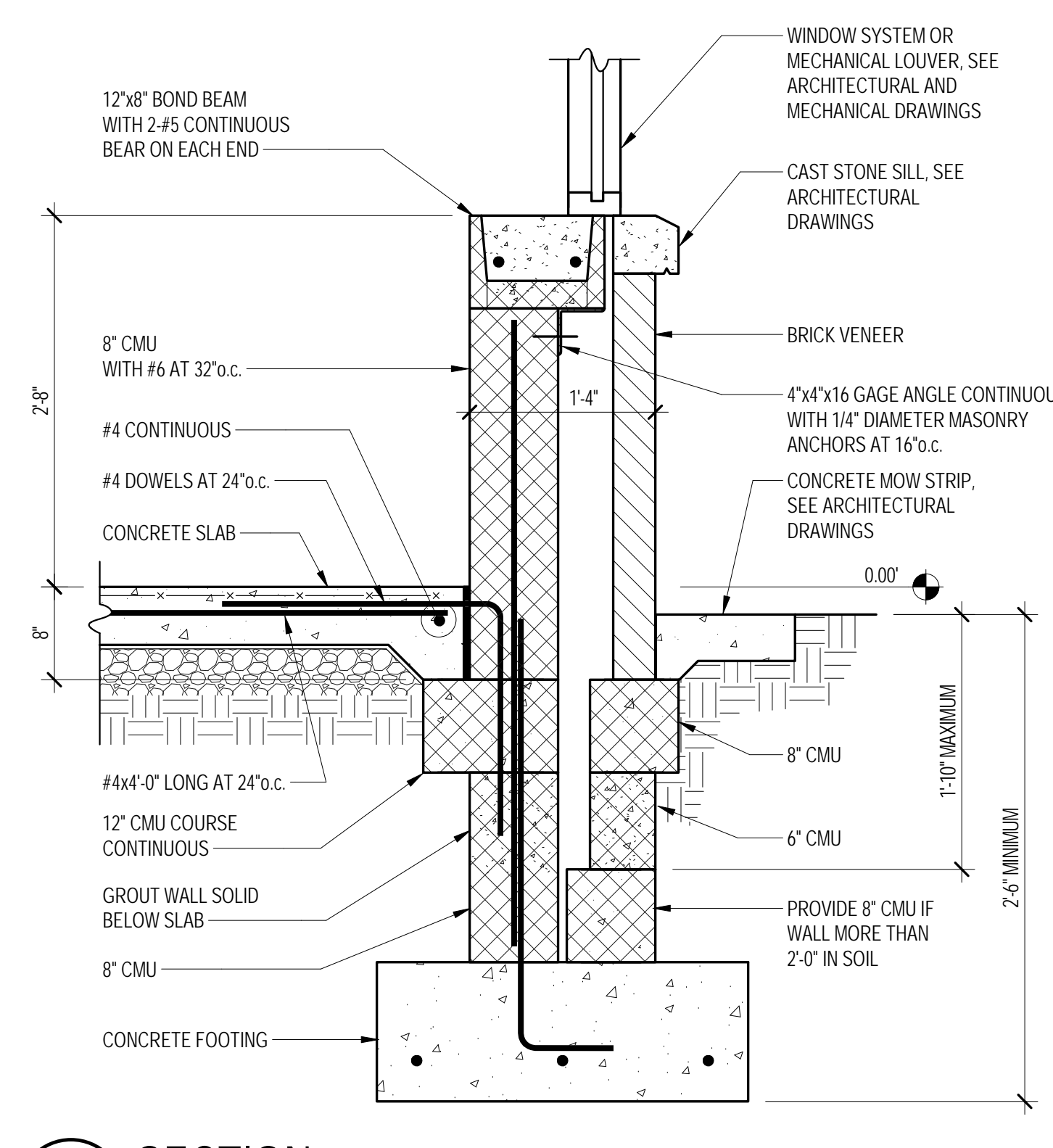
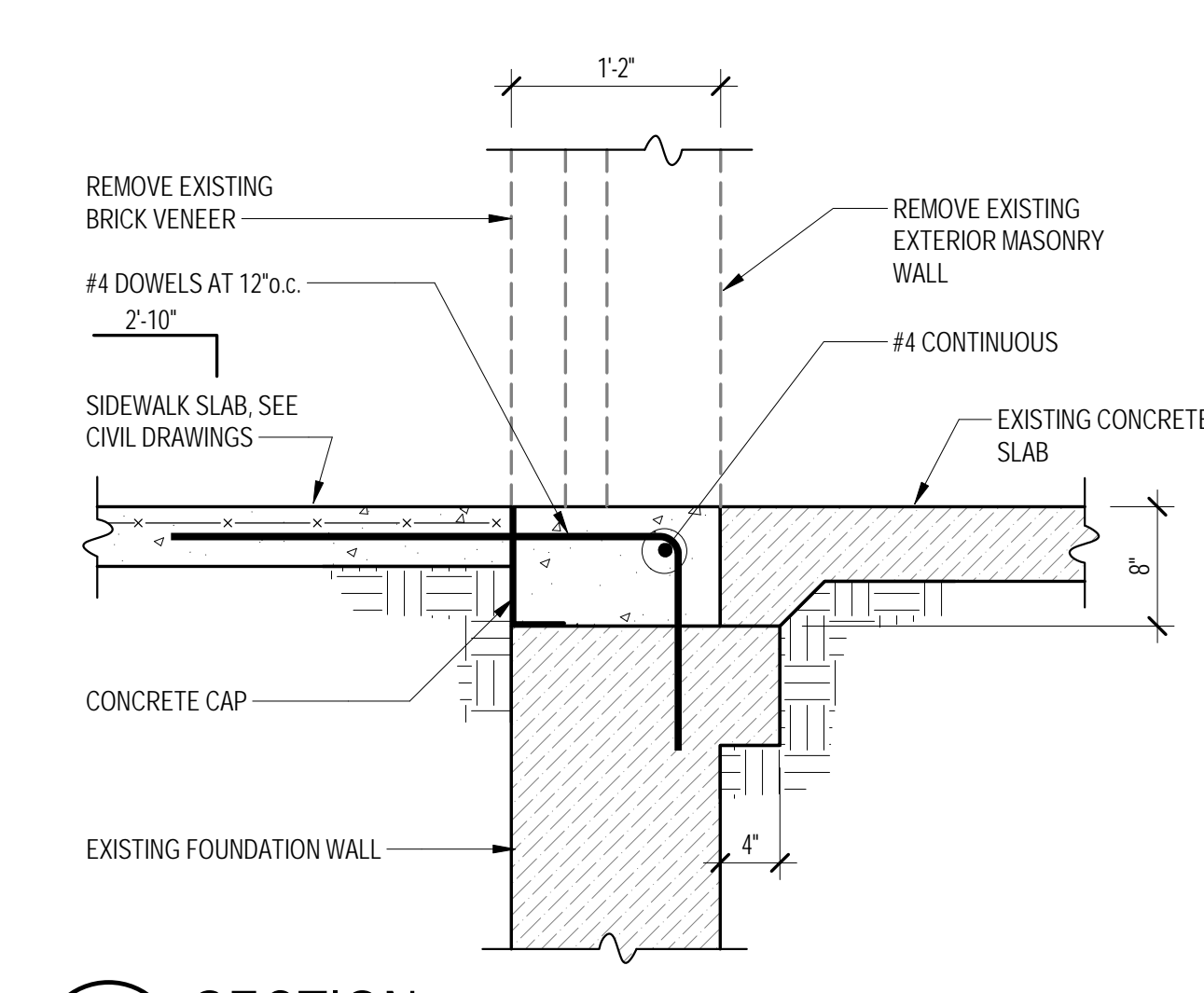
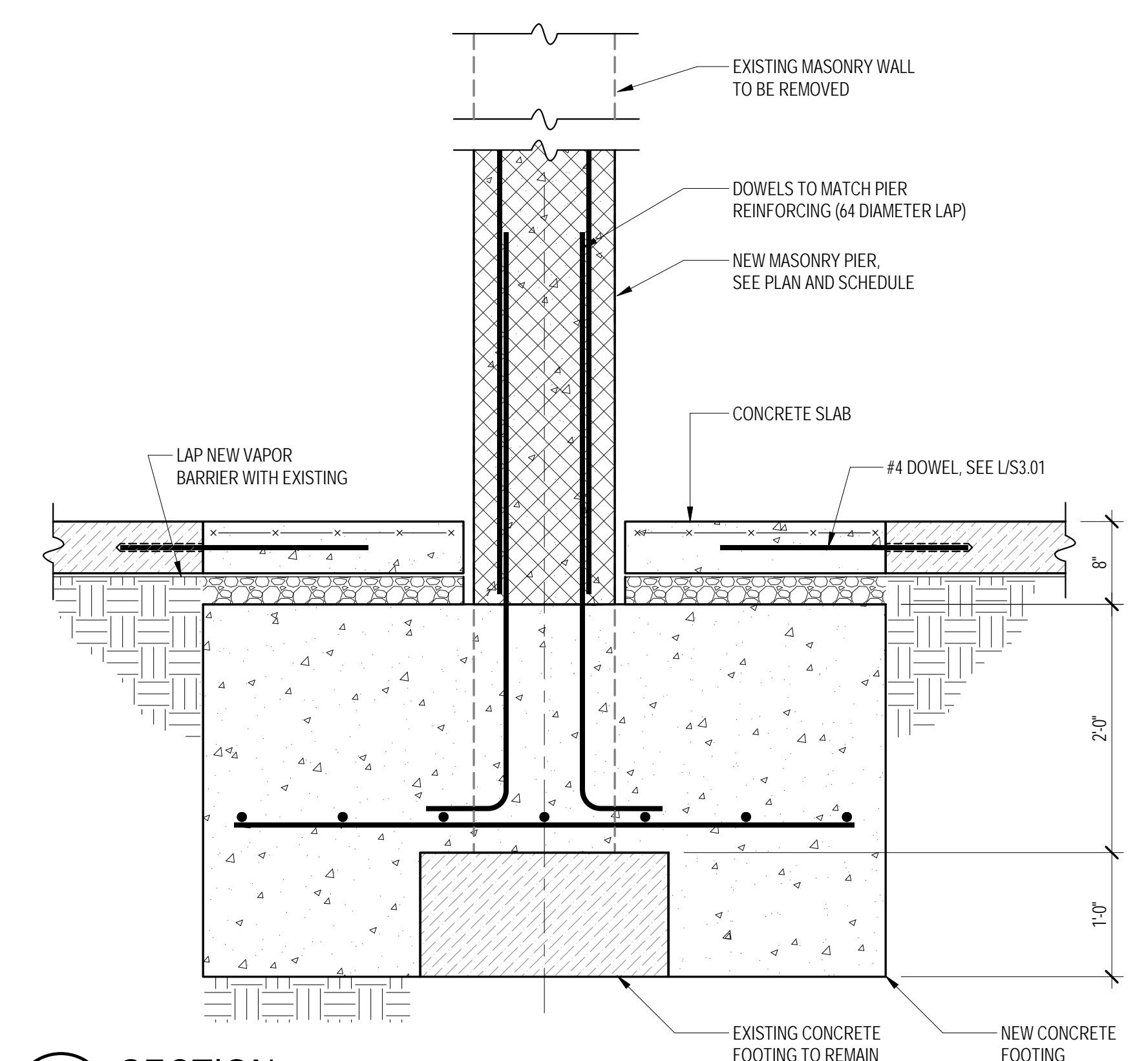
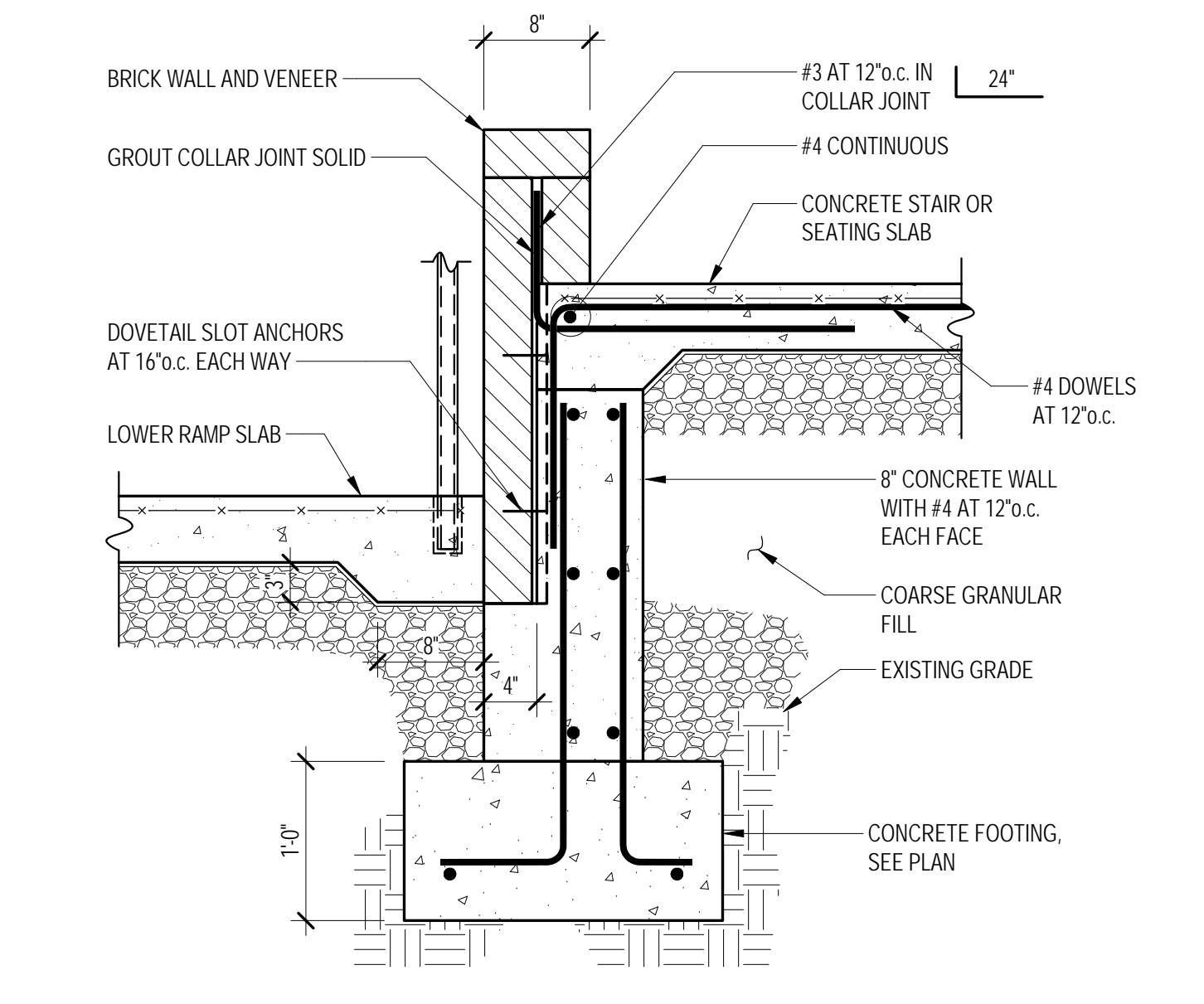
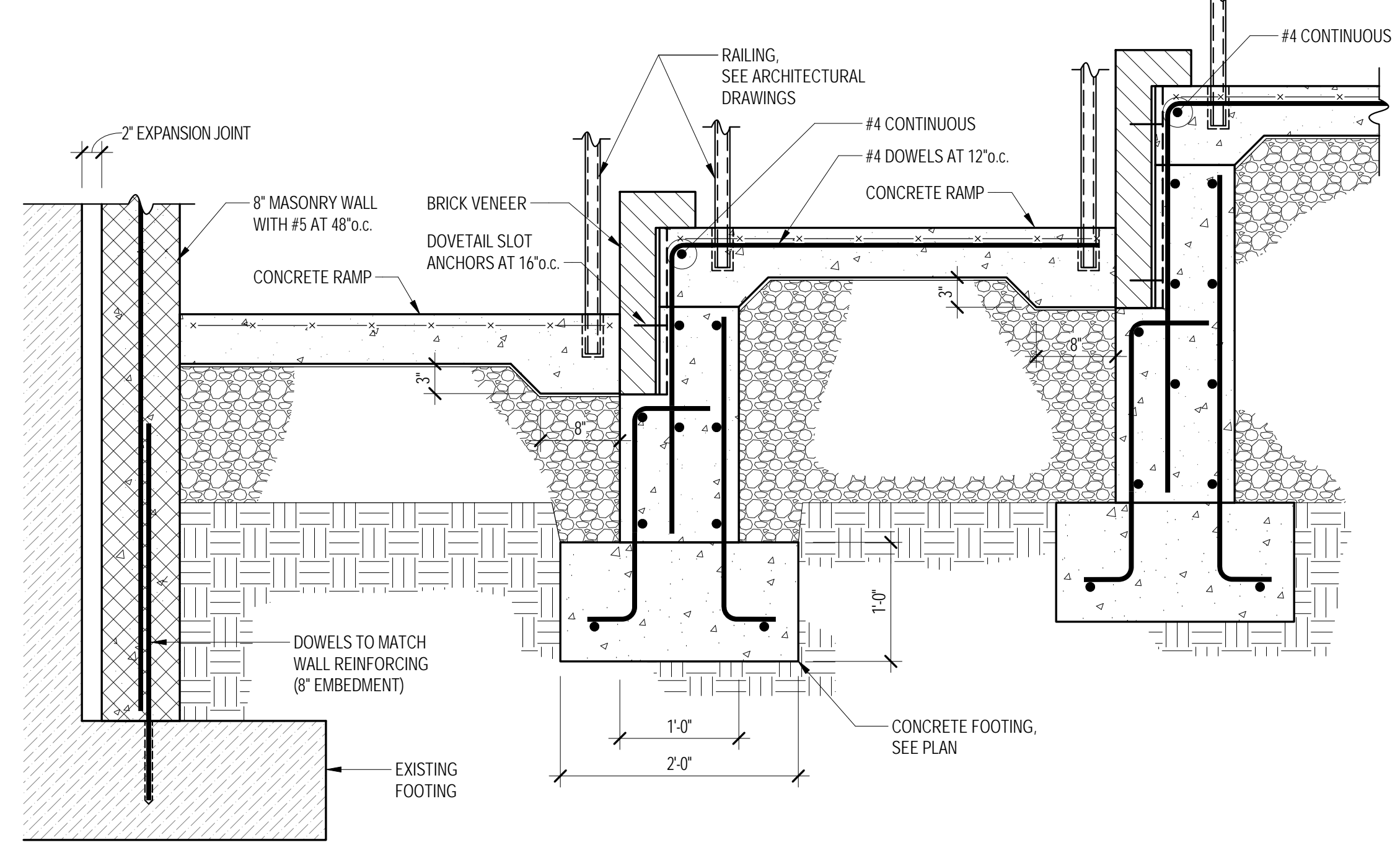
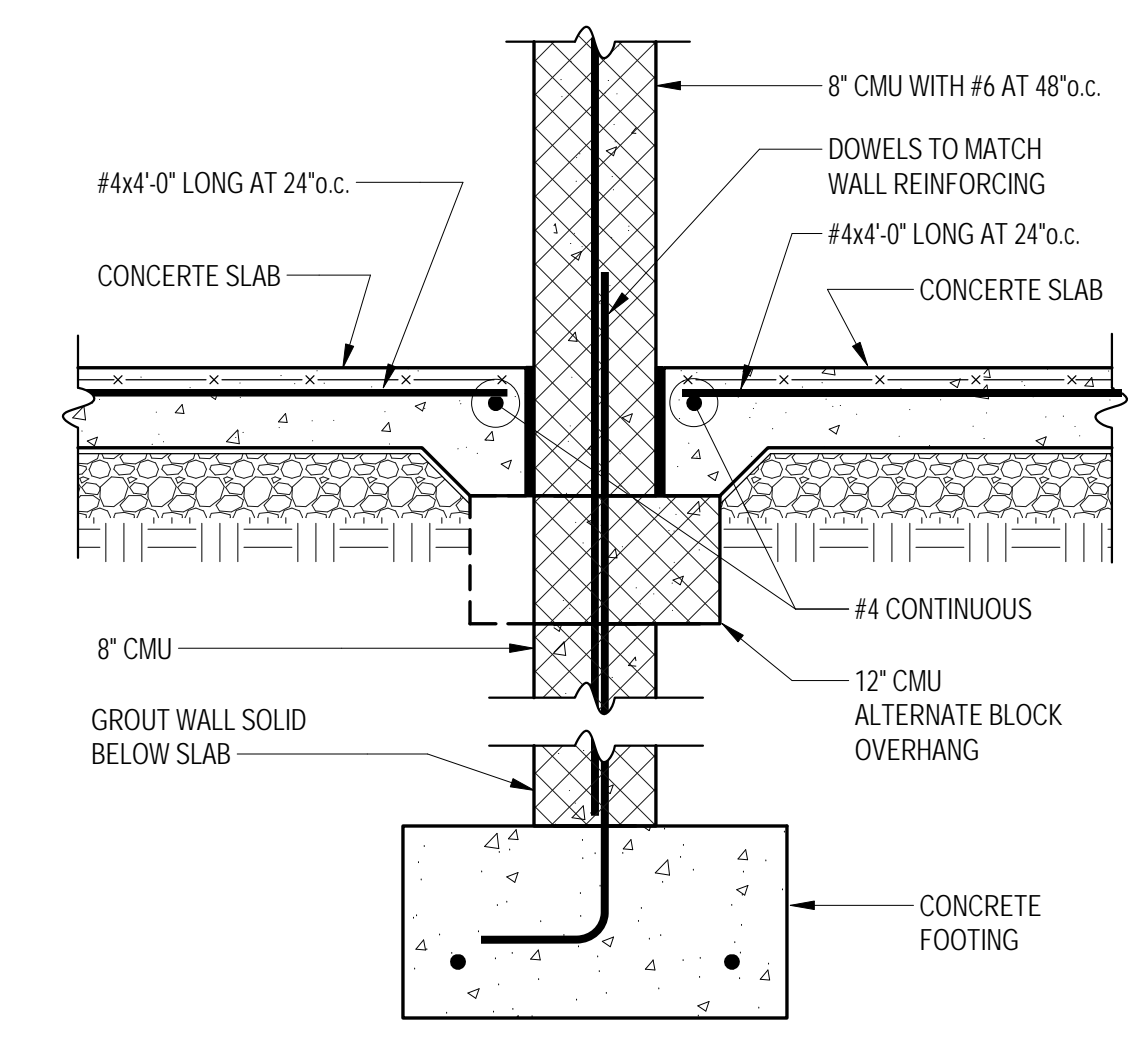
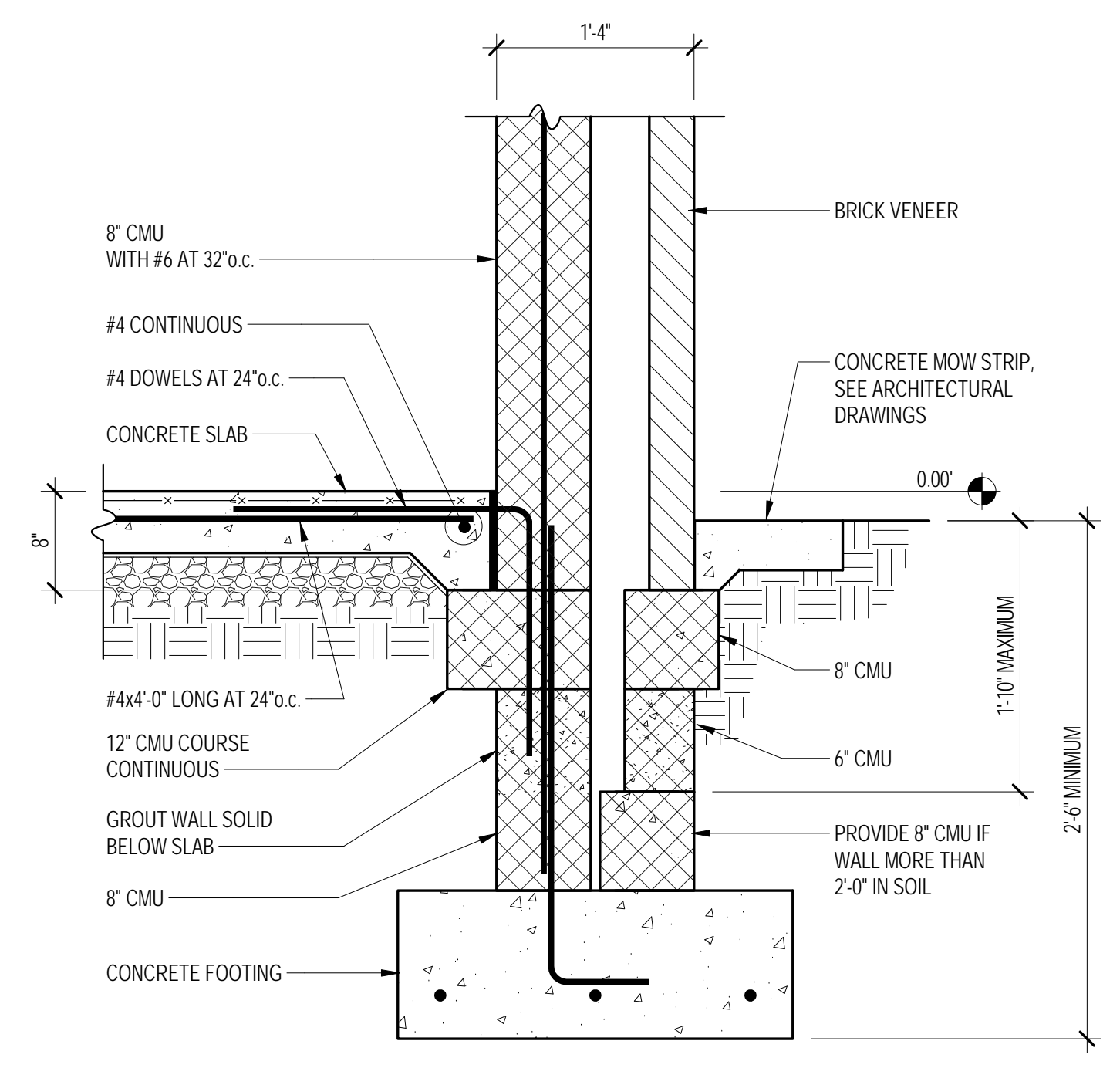
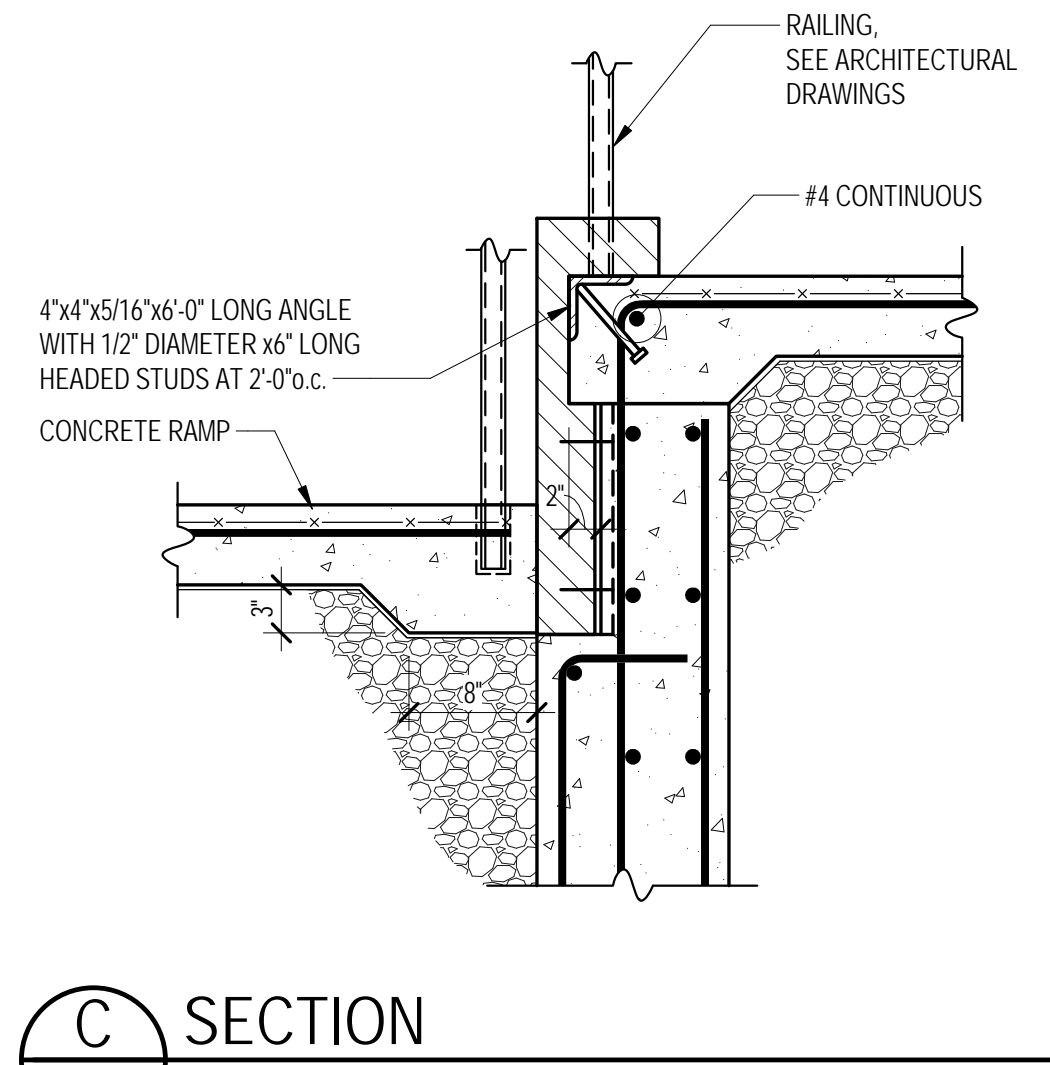
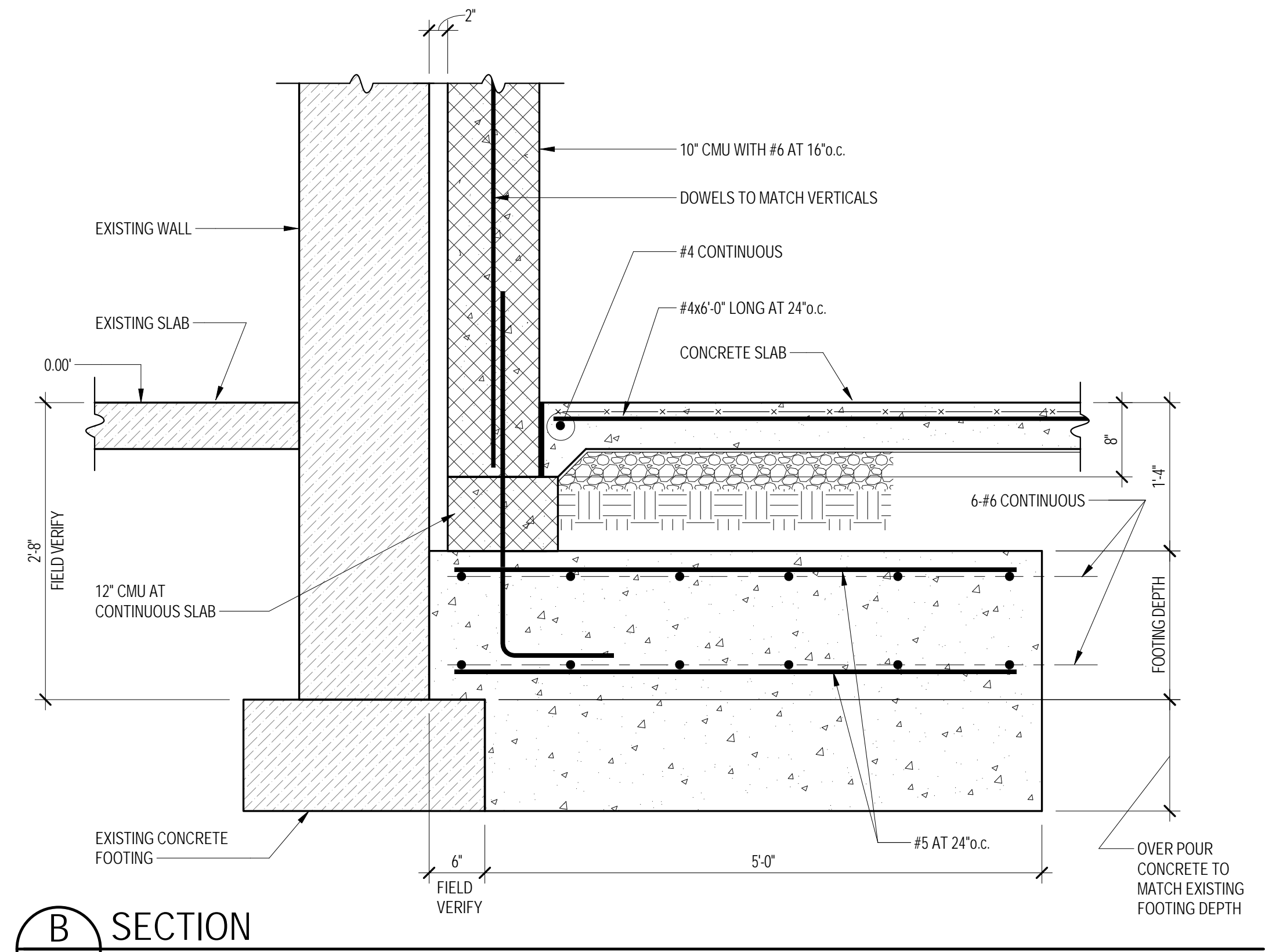
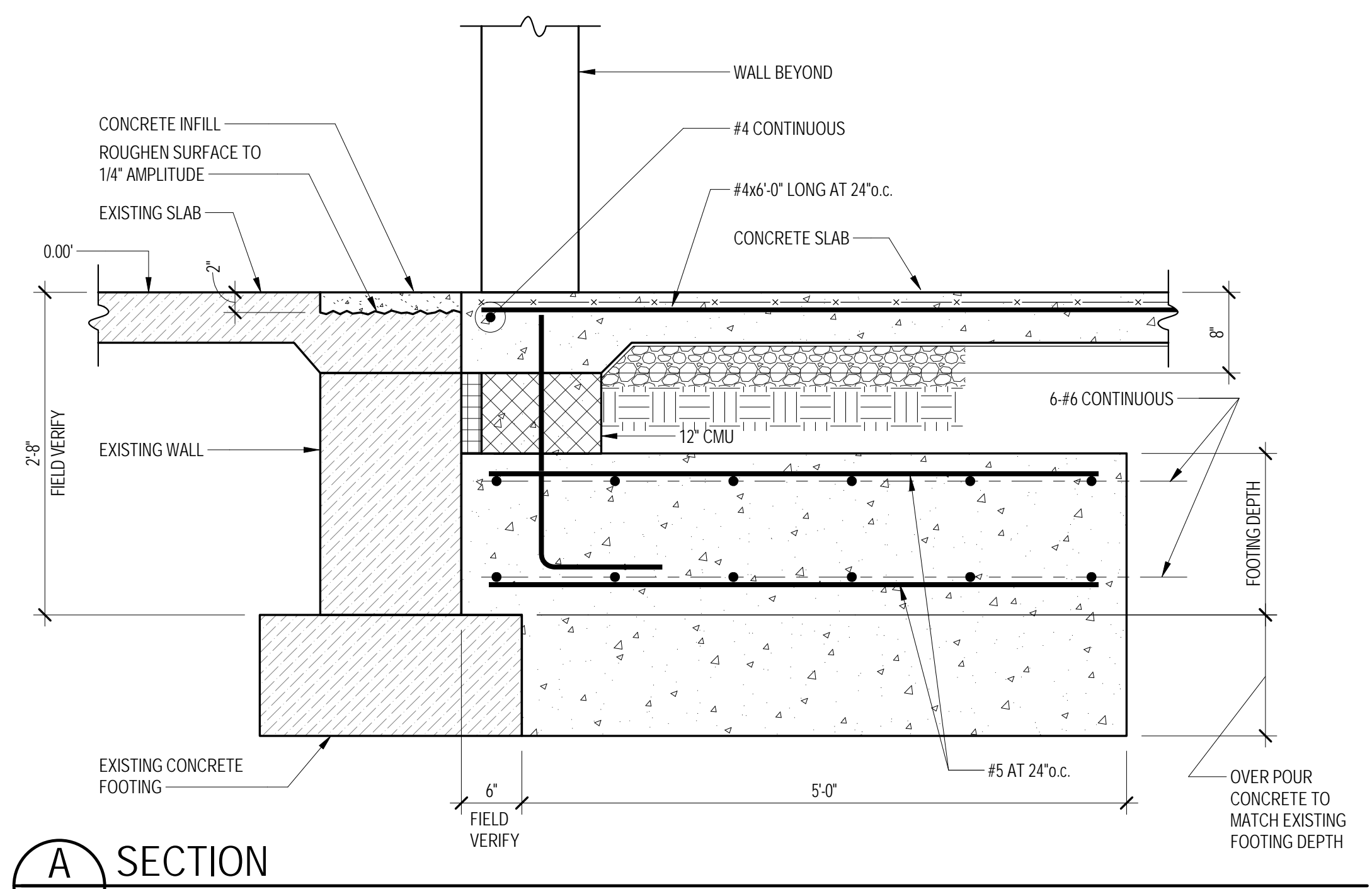
PROJECT NO:
21-112

DATE:
07/07/2022

SCALE:
1" = 1'-0"

SHEET NO:

S4.01



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NO.	DESCRIPTION:	DATE:
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CROFTON MIDDLE SCHOOL ADDITION

ANNE ARUNDEL COUNTY PUBLIC SCHOOLS

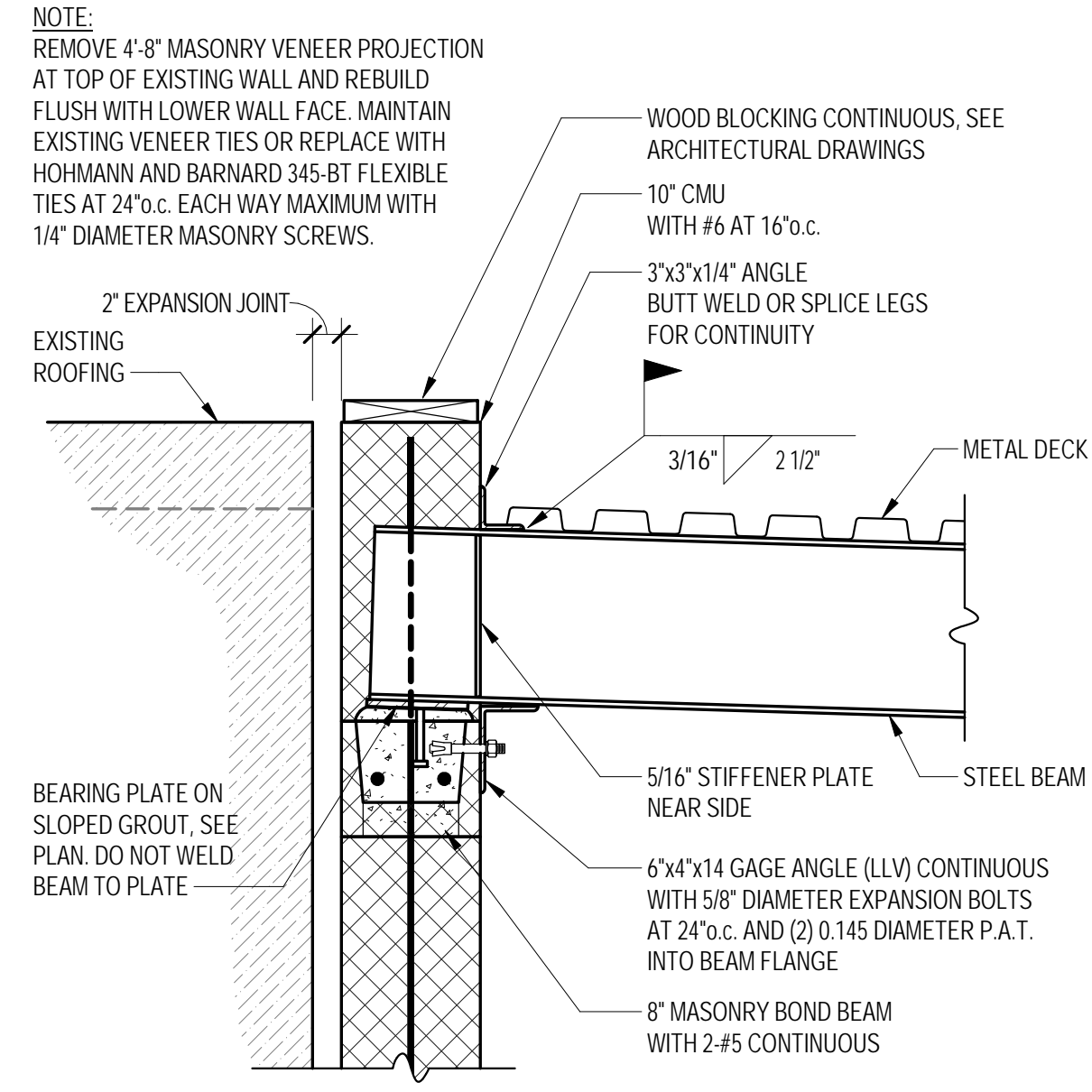
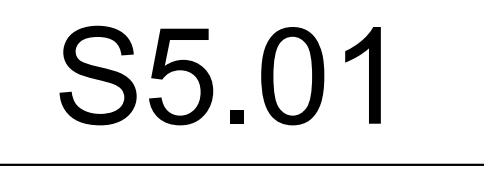
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PROJECT NO: 21-112

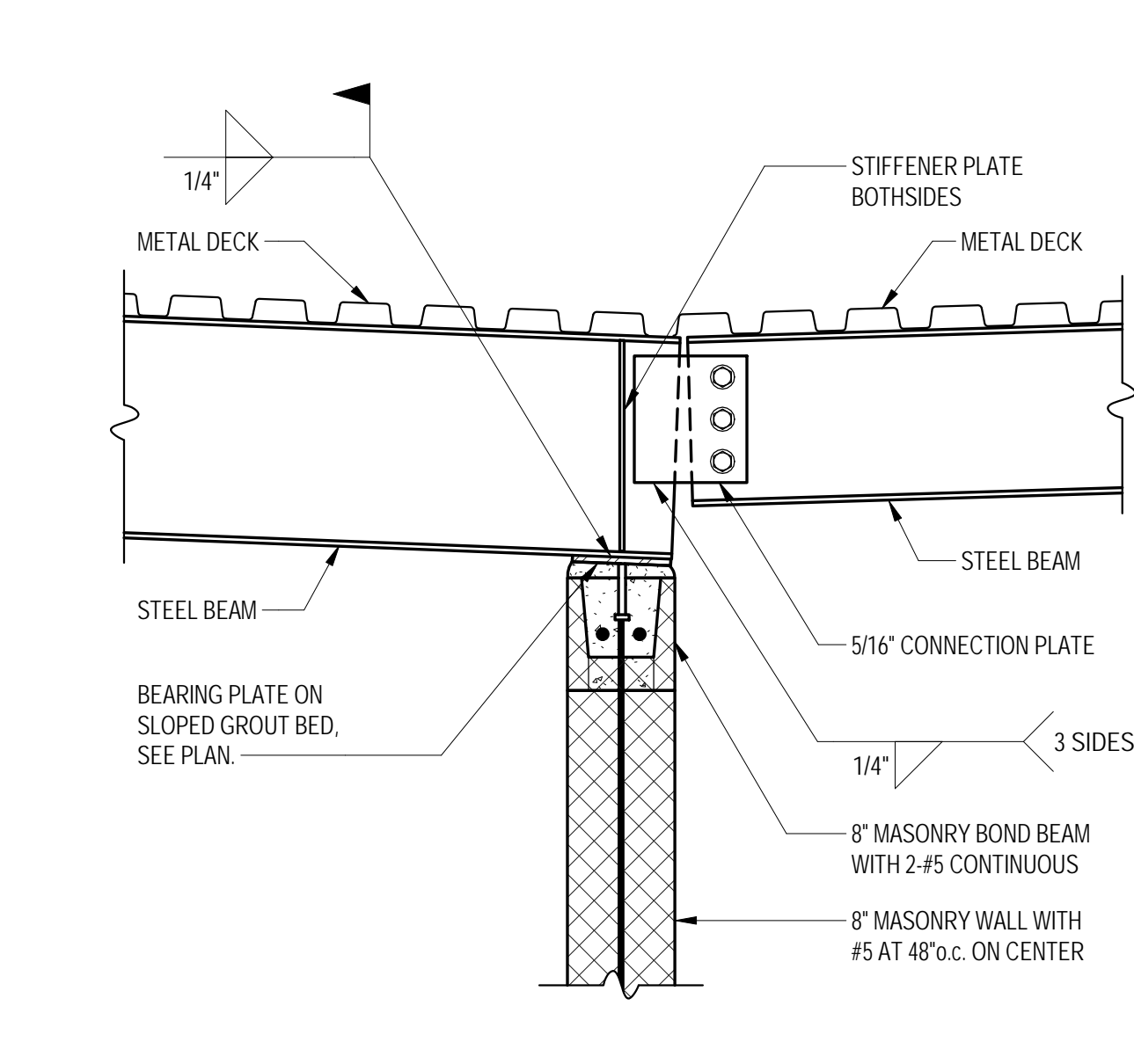
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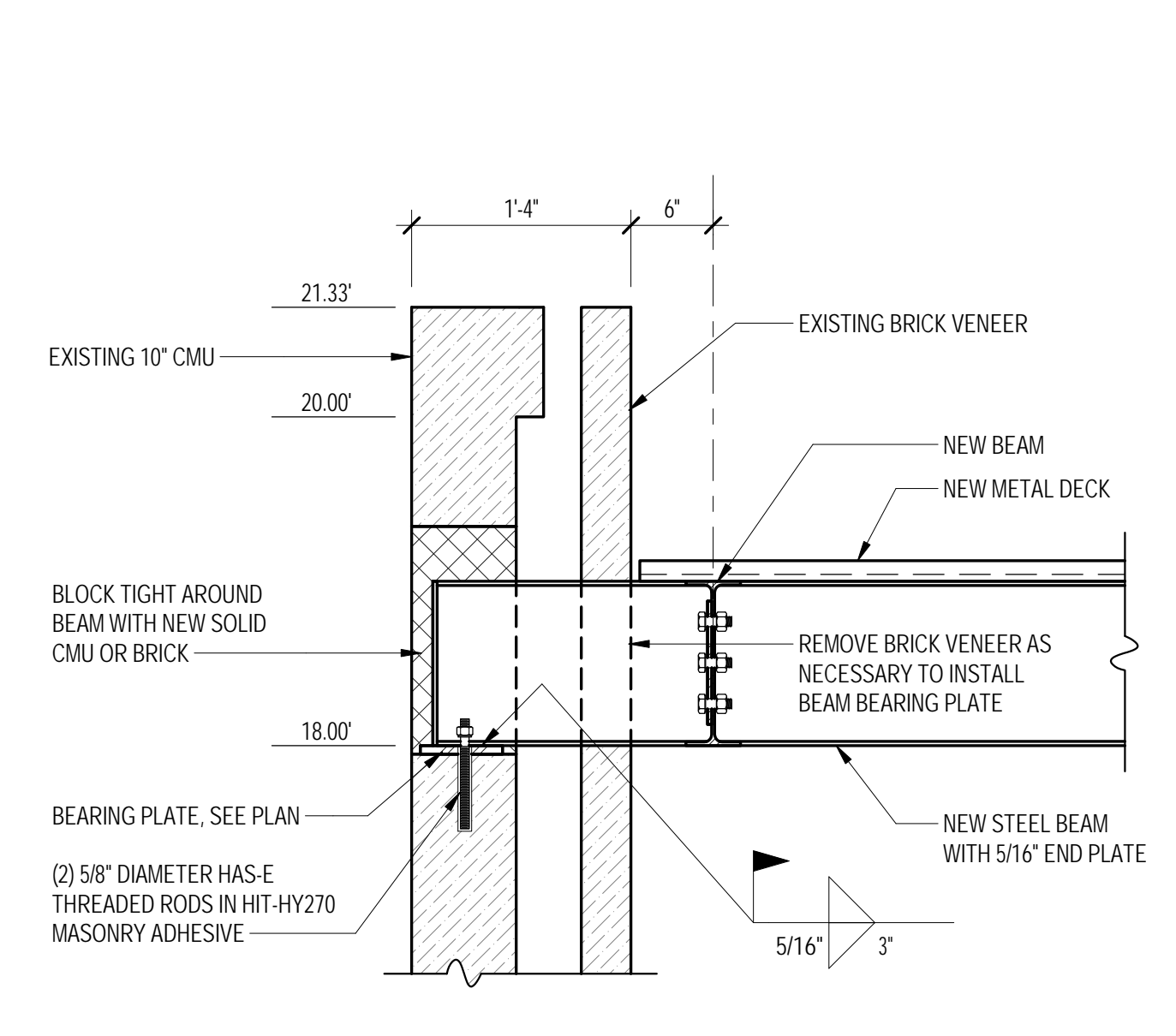
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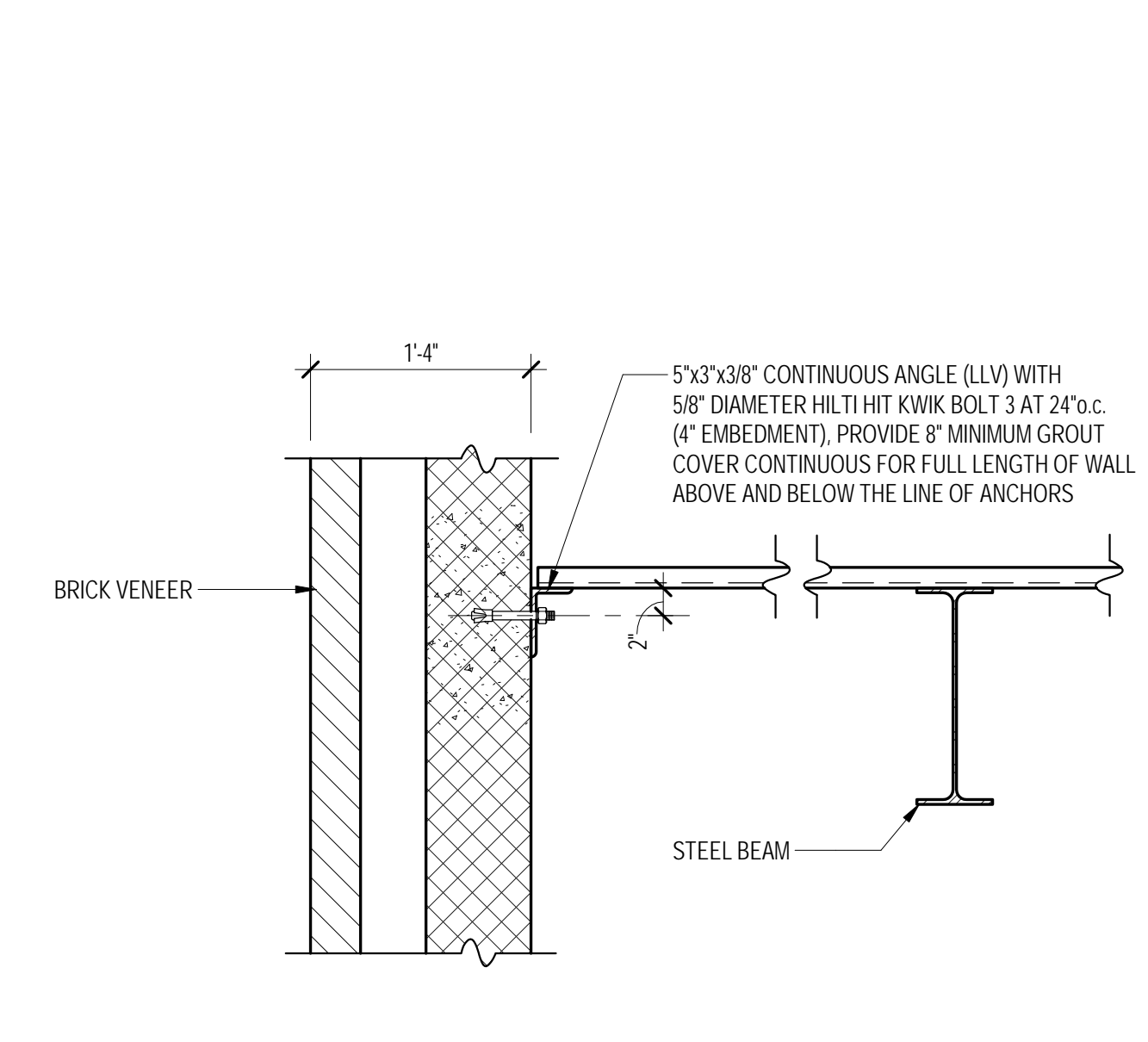
A SECTION
S5.01 SCALE: 1" = 1'-0"



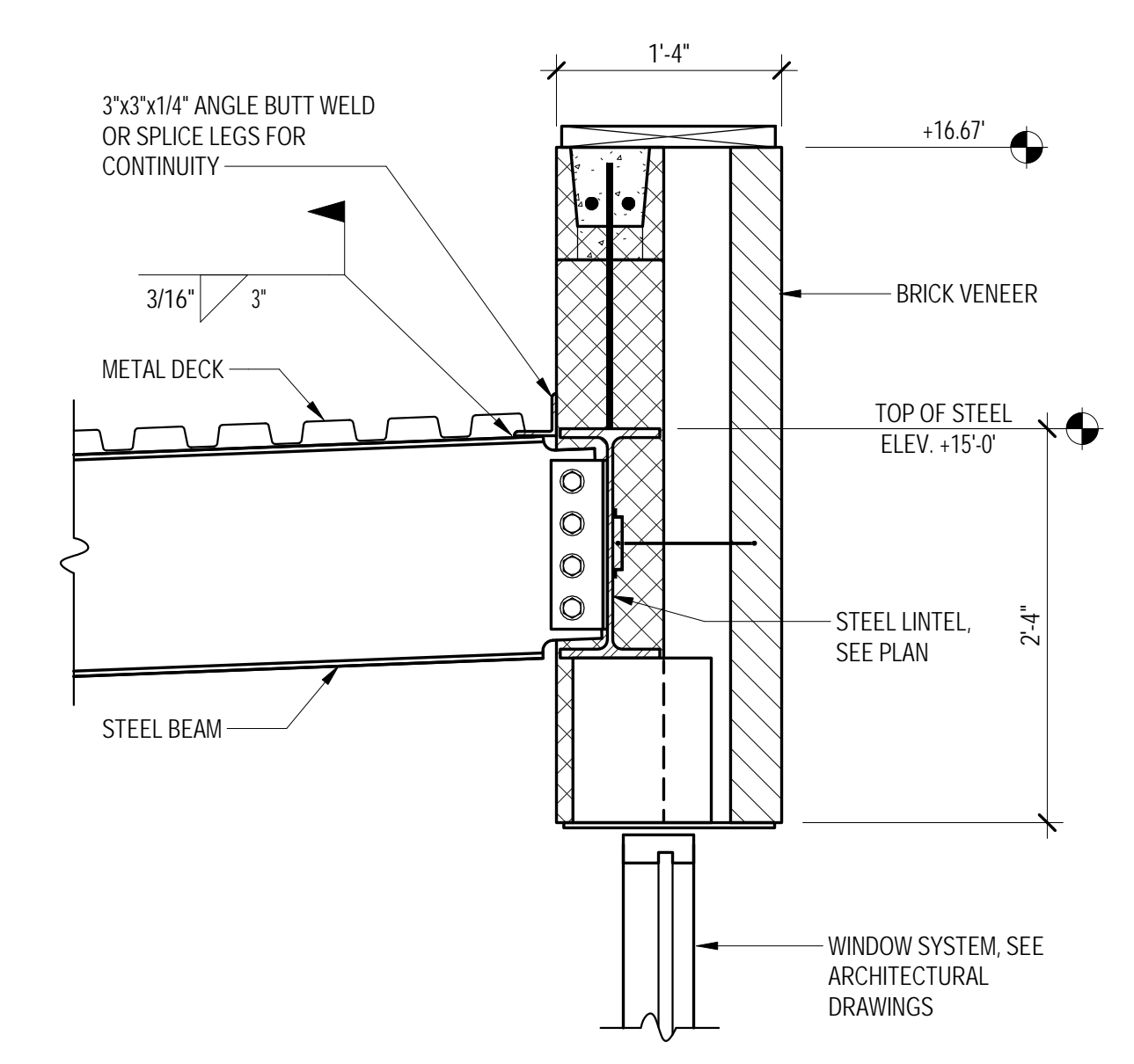
B SECTION
S5.01 SCALE: 1" = 1'-0"



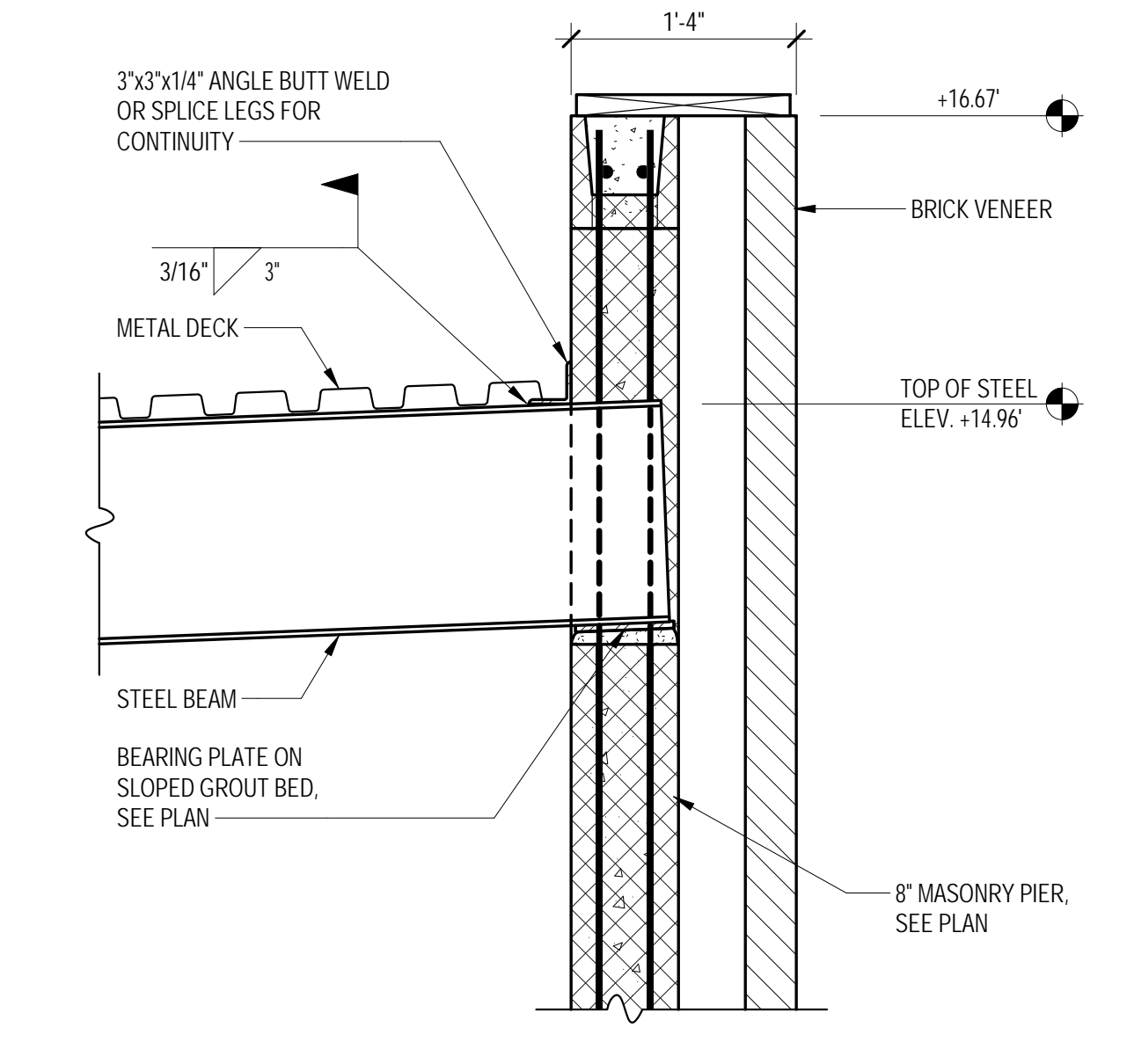
C TYPICAL DETAIL
S5.01 SCALE: 1" = 1'-0"



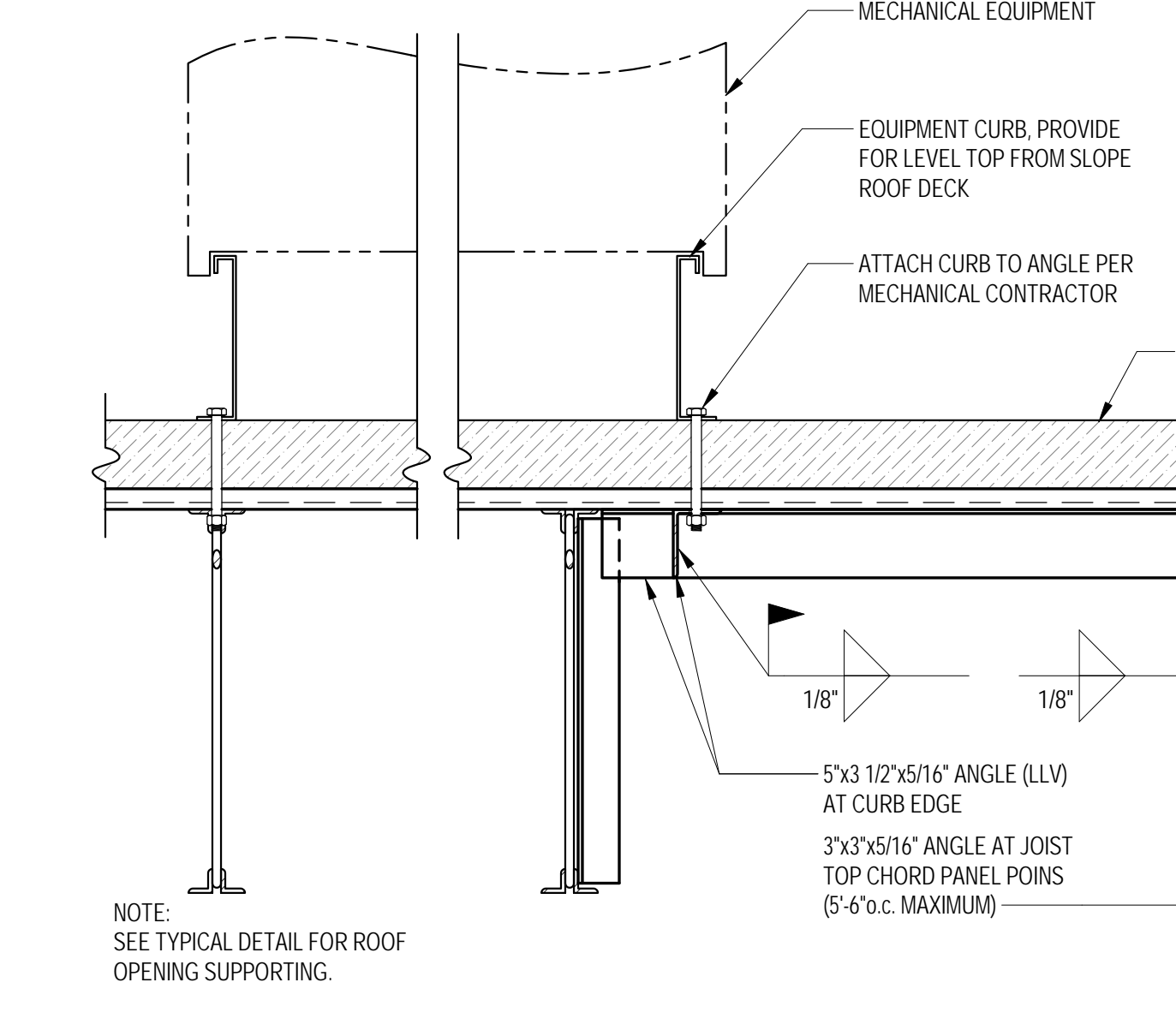
D SECTION
S5.01 SCALE: 1" = 1'-0"



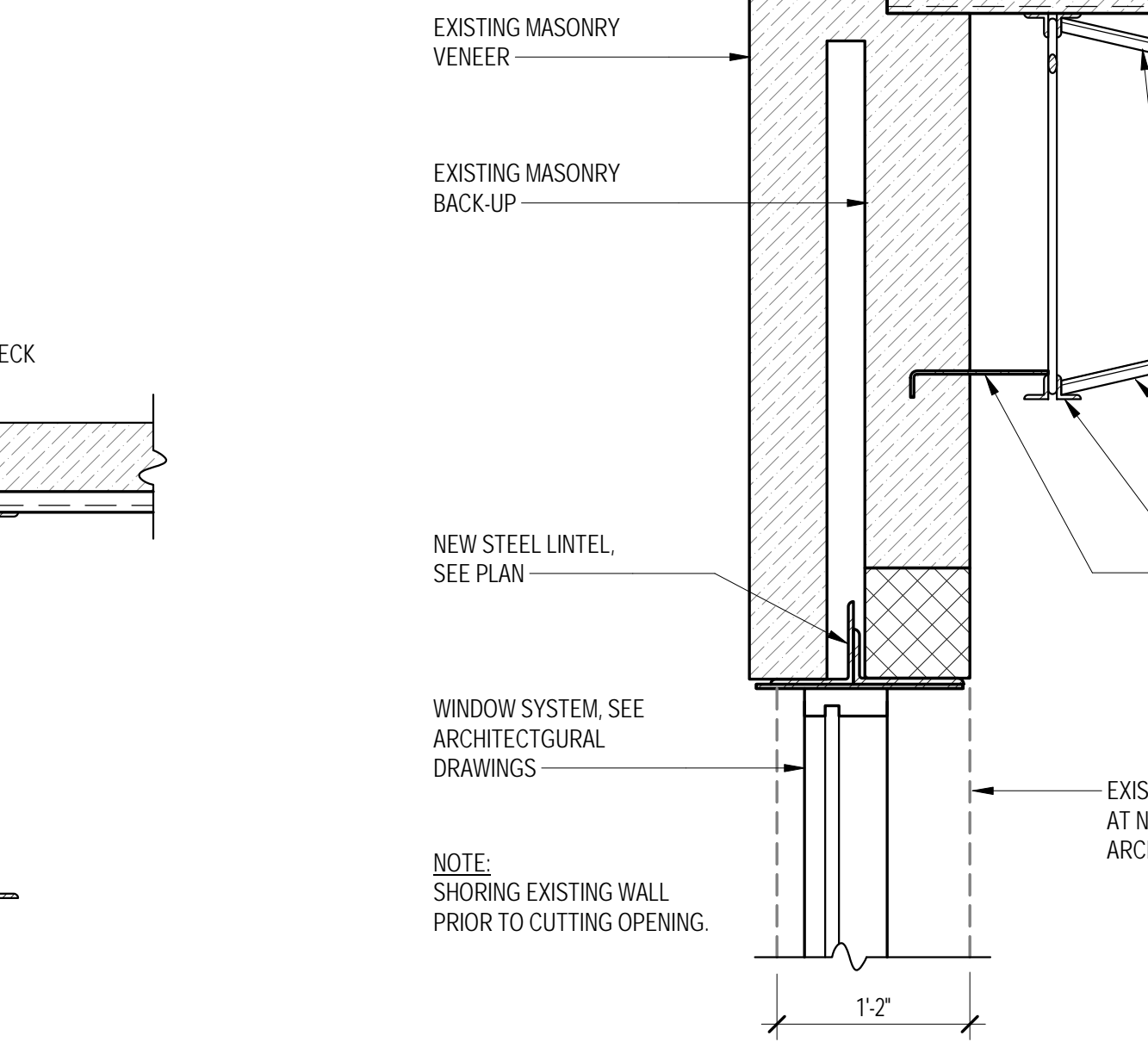
E SECTION
S5.01 SCALE: 1" = 1'-0"



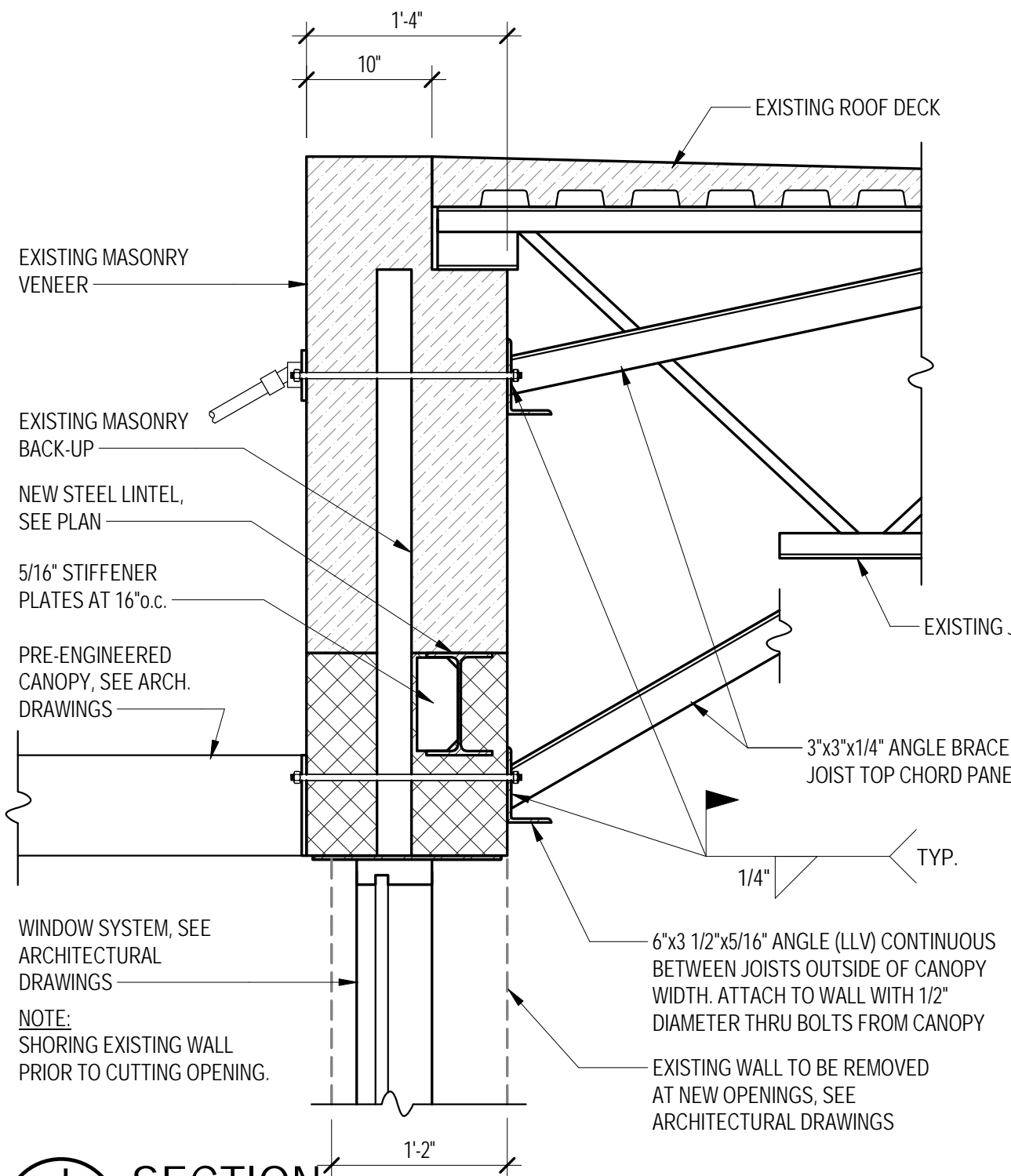
F SECTION
S5.01 SCALE: 1" = 1'-0"



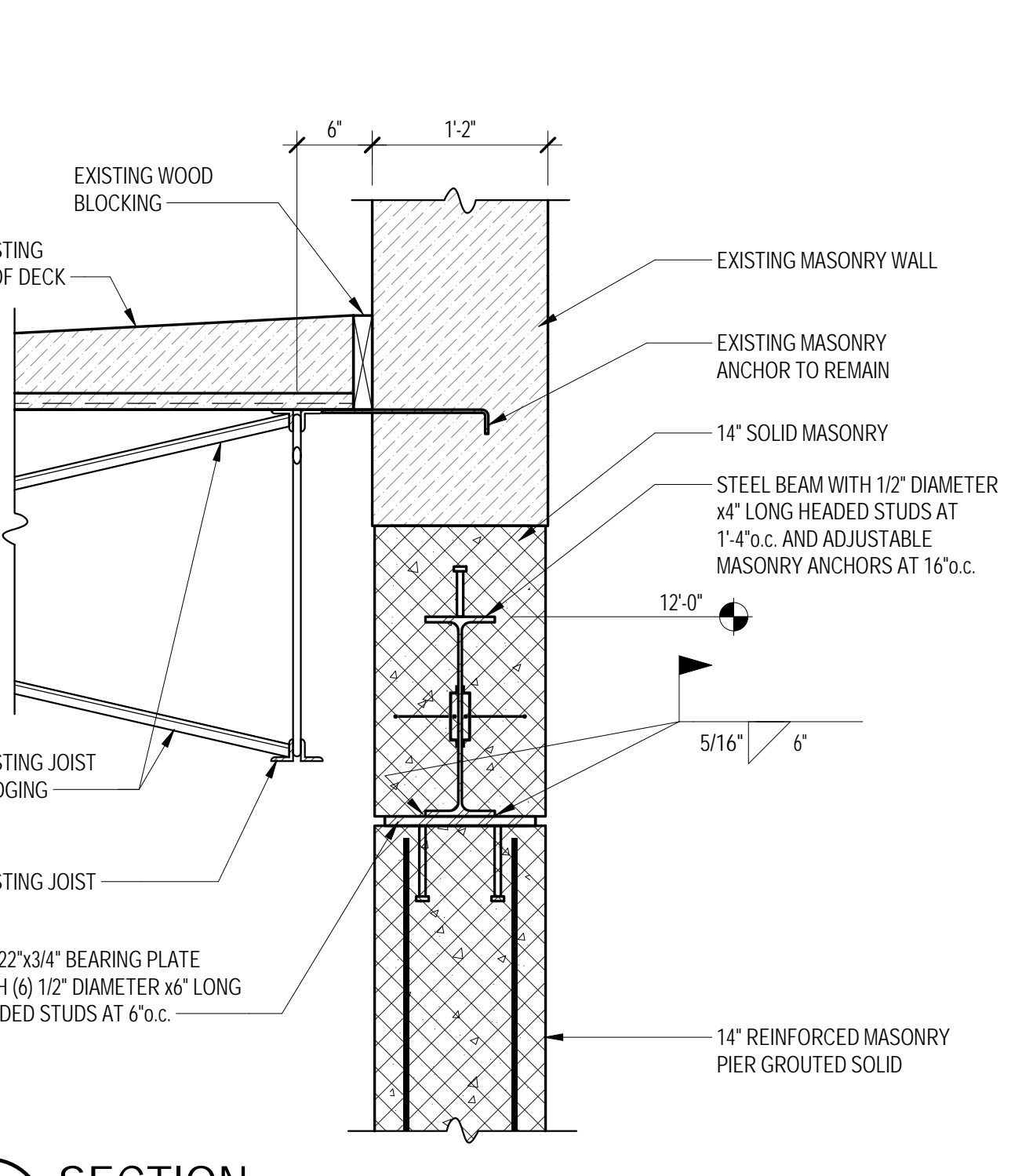
G SECTION
S5.01 SCALE: 1" = 1'-0"



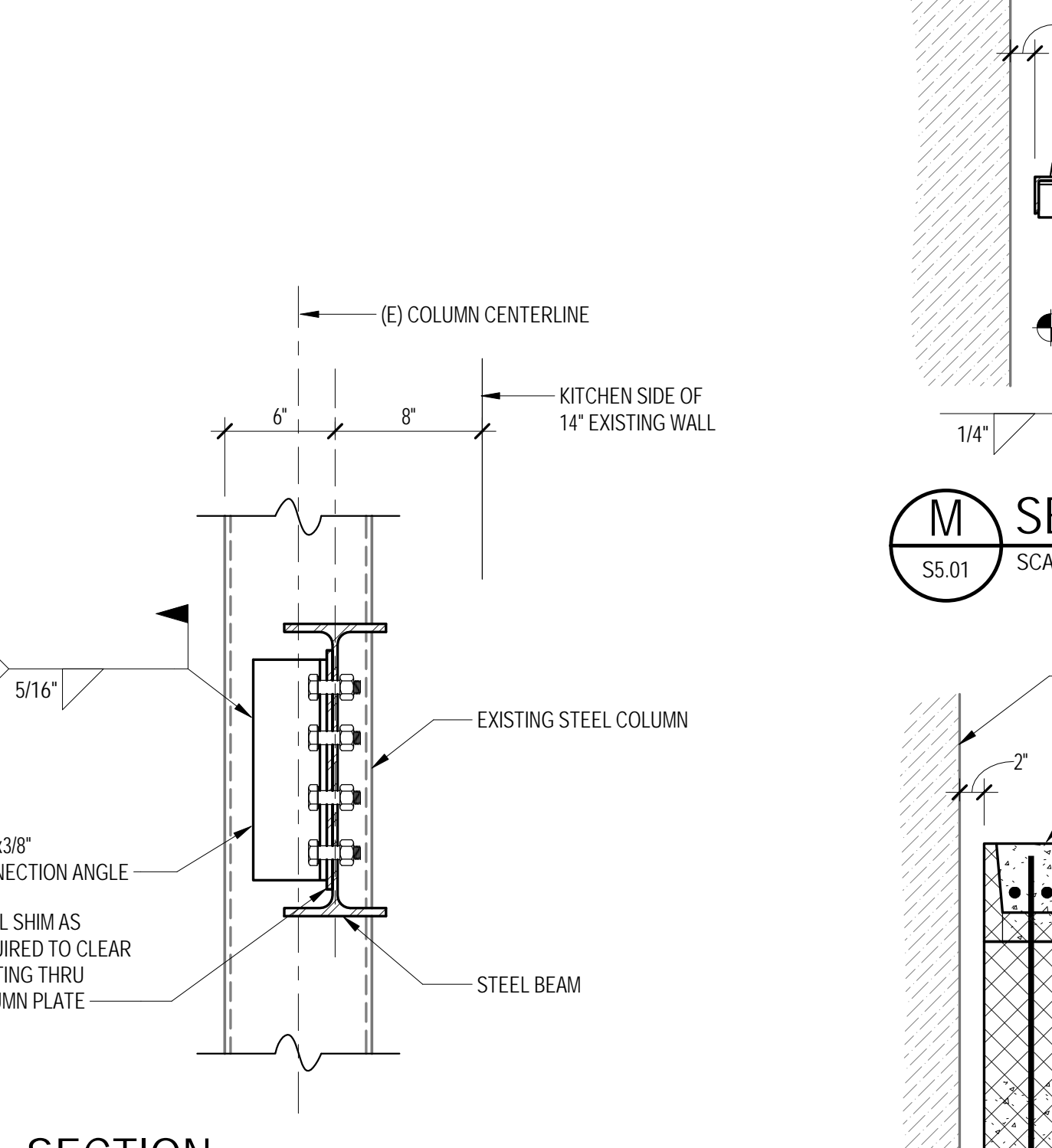
H SECTION
S5.01 SCALE: 1" = 1'-0"



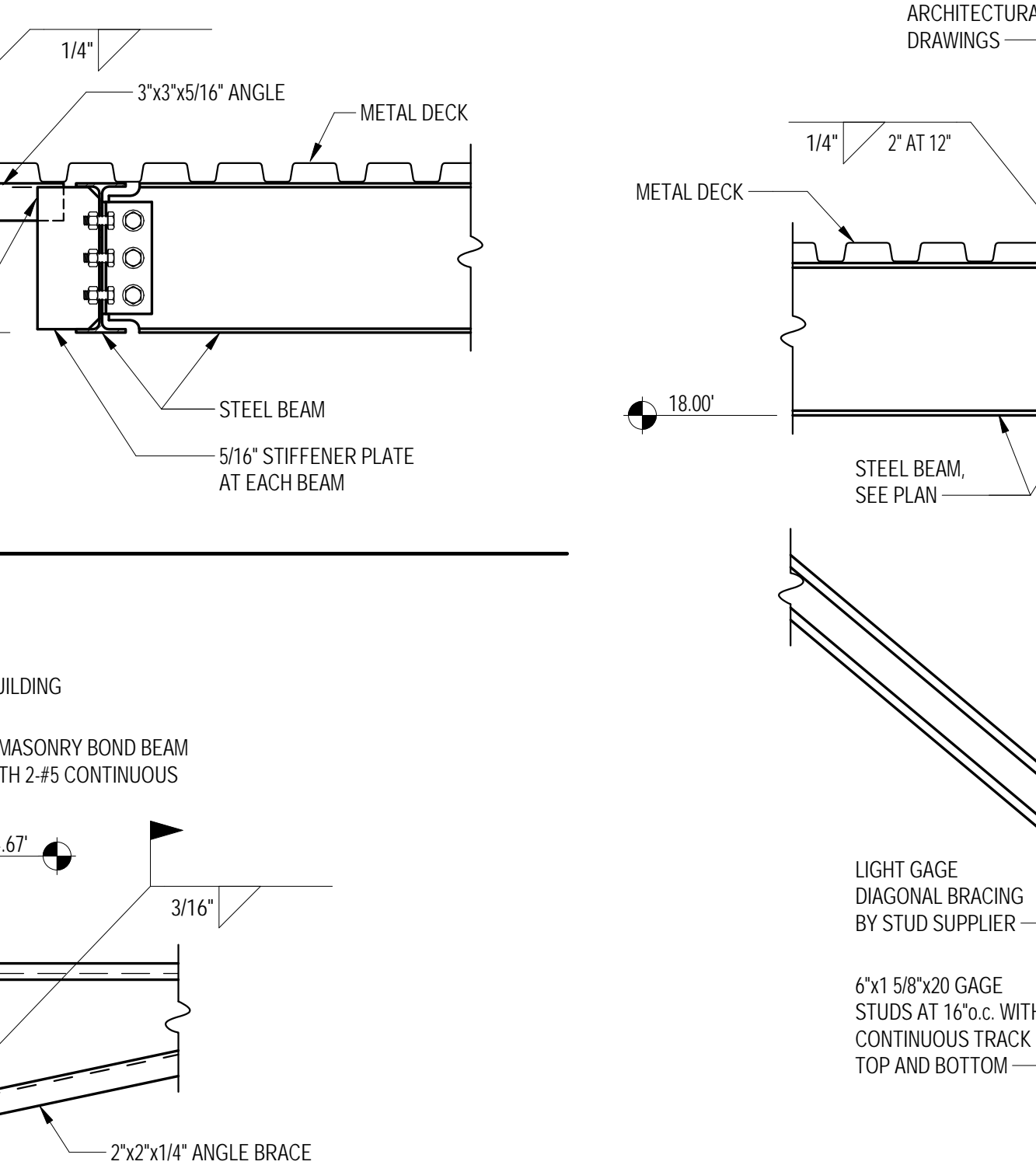
J SECTION
S5.01 SCALE: 1" = 1'-0"



K SECTION
S5.01 SCALE: 1" = 1'-0"



L SECTION
S5.01 SCALE: 1 1/2" = 1'-0"



M SECTION
S5.01 SCALE: 1" = 1'-0"



N SECTION
S5.01 SCALE: 1" = 1'-0"



O SECTION
S5.01 SCALE: 1" = 1'-0"



P SECTION
S5.01 SCALE: 1" = 1'-0"