

GENERAL NOTES

- 1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE PROVISIONS OF THE 2018 INTERNATIONAL BUILDING CODE.
2. THE BUILDING STRUCTURE HAS BEEN DESIGNED TO RESIST THE FOLLOWING CODE PRESCRIBED LOADS:
LIVE LOADS
ROOF FLOOR 20 PSF
SNOW LOADS
GROUND SNOW LOAD, Pg 5 PSF
SNOW IMPORTANCE FACTOR, Is 1.1
SNOW EXPOSURE FACTOR, Ce 0.9
THERMAL FACTOR, Ct 1.0
WIND LOADS (BUILDINGS)
ULTIMATE DESIGN WIND SPEED (RISK CATEGORY III) 112 MPH
EXPOSURE CATEGORY B
SURFACE ROUGHNESS B
SEISMIC LOADS
OCCUPANCY CATEGORY III
SEISMIC IMPORTANCE FACTOR, IE 1.25
SPECTRAL RESPONSE COEFFICIENT, Ss 7.79g
SPECTRAL RESPONSE COEFFICIENT, S1 4.49g
SITE CLASS C
SEISMIC DESIGN CATEGORY A

- 3. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKMEN AND OTHER PERSONS DURING CONSTRUCTION.
4. THE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR DETERMINATION OF QUANTITY, LENGTH OR FIT OF MATERIALS.
5. PRINCIPAL OPENINGS ARE INDICATED ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, BLOCKOUTS, INSERTS, CURBS, OPENINGS AND SLAB DEPRESSIONS NOT SHOWN.
6. CONTRACTOR SHALL COMPARE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
7. CONTRACTOR SHALL INSURE THAT CONSTRUCTION MATERIALS WHOSE WEIGHT EXCEEDS THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS ARE NOT STORED ON STRUCTURALLY SUPPORTED FLOOR OR ROOF FRAMING.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OR HER OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
9. LOADINGS FOR MECHANICAL EQUIPMENT ARE BASED ON THE UNIT(S) SHOWN ON THE STRUCTURAL DRAWINGS. ANY CHANGES IN TYPE, SIZE, WEIGHT OR NUMBER OF UNIT(S) SHALL BE REPORTED TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS OR MECHANICAL EQUIPMENT.
10. REPRODUCTION OF THE STRUCTURAL DRAWINGS, EITHER IN PART OR IN WHOLE, FOR SUBMITTALS OR SHOP DRAWINGS SIGNIFIES ACCEPTANCE OF INFORMATION SHOWN AS CORRECT AND OBLIGES THE USER TO ANY EXPENSE, REAL OR IMPLIED, ARISING FROM THEIR USE.
11. CONTRACTOR SHALL SCHEDULE SITE OBSERVATION VISITS WITH THE ENGINEER OF RECORD AND/OR TESTING LABORATORY A MINIMUM OF FORTY-EIGHT HOURS PRIOR TO THE REQUIRED TIME OF THE VISIT.
12. CONTRACTOR SHALL ALLOW TEN (10) WORKING DAYS FOR THE ENGINEER TO REVIEW EACH STRUCTURAL SUBMITTAL OR SHOP DRAWING.
13. FIELD VERIFY ALL HORIZONTAL AND VERTICAL DIMENSIONS OF EXISTING STRUCTURE PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN CONDITIONS OBSERVED IN THE FIELD AND CONDITIONS INDICATED ON PLAN.

FOUNDATION NOTES

- 1. THE FOUNDATION DESIGN IS BASED ON THE PROJECT GEOTECHNICAL REPORT PREPARED BY D&S ENGINEERING LABS/(D&S PROJECT NO. G21-2350) DATED MARCH 18, 2022.
2. THE FOUNDATION DESIGN IS BASED ON A POTENTIAL VERTICAL MOVEMENT, PVM, ON THE ORDER OF ONE (1) INCH OR LESS. IF THIS VALUE IS NOT ACCEPTABLE TO THE OWNER OR TENANTS, THE FOUNDATION DESIGN MUST BE REVISED.
3. THE FOUNDATION SHALL CONSIST OF AUGER-EXCAVATED, STRAIGHT SHAFT REINFORCED CONCRETE PIERS. REFER TO TYPICAL PIER DETAIL FOR BEARING STRATA. PIERS HAVE BEEN PROPORTIONED FOR THE FOLLOWING:
END BEARING 10,000 PSF
SKIN FRICTION (COMPRESSION) 2,000 PSF
4. ALL UNEXPOSED SURFACES OF FOOTINGS/GRADE BEAMS SHALL BE EARTH-FORMED. PROVIDE FORMWORK FOR ALL EXPOSED SURFACES AND THE UPPER (12) INCHES OF ALL EXTERIOR FOOTINGS/GRADE BEAMS.
5. CORRUGATED PAPER FORMS, AS MANUFACTURED BY SUREVOID PRODUCTS INC., SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER TO PROVIDE A NOMINAL SIX (6) INCH VOID BENEATH ALL GRADE BEAMS. SURE RETAINER BY MOTZBLOCK PLASTIC BACKFILL RETAINER BOARDS, AS MANUFACTURED BY SUREVOID PRODUCTS, INC., SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER CONTINUOUSLY ALONG EACH SIDE OF ALL GRADE BEAMS.
6. THE BUILDING SLAB ON GRADE SHALL BE PLACED ON A VAPOR BARRIER/RETARDER OVER TWELVE (12) INCHES OF NON-EXPANSIVE OF SELECT FILL OVER A MINIMUM OF TWELVE (12) INCHES OF REWORKED ON-SITE SOILS IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
7. VAPOR BARRIER/RETARDER SHALL BE IN COMPLIANCE WITH ASTM E 1745 CLASS A. HAVE A MINIMUM THICKNESS OF FIFTEEN (15) MILS AND A PERMEANCE AS TESTED AFTER MANDATORY CONDITIONING (ASTM E 154 SECTIONS 8, 11, 12, 13) LESS THAN 0.01 PERMS (GRAINS/FT^2*HR*IN.HG) PER ASTM E 96 OR F 1249. MEMBRANE, TAPE, AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
8. INFORMATION ABOVE IS PRESENTED ONLY AS A SUMMARY OF THE PROJECT GEOTECHNICAL REPORT. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COMPLYING WITH THE RECOMMENDATIONS CONTAINED IN THE PROJECT GEOTECHNICAL REPORT. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN.
9. IF MORE THAN SIX (6) MONTHS ELAPSE FROM THE ISSUE DATE OF THE CONSTRUCTION DOCUMENTS TO THE COMMENCEMENT OF CONSTRUCTION, IT IS RECOMMENDED THAT THE BUILDING OWNER CONSULT WITH THE PROJECT GEOTECHNICAL ENGINEER TO DETERMINE IF THE FOUNDATION DESIGN RECOMMENDATIONS ARE CONSISTENT WITH THE CURRENT SOIL CONDITIONS.

STRUCTURAL CONCRETE NOTES

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 AND ACI 318. ALL CONCRETE SHALL BE LABORATORY DESIGNED AND CONTROLLED.
2. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL HAVE SAND AND GRAVEL OR CRUSHED STONE COARSE AGGREGATES AND A CORRESPONDING TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 3,000 PSI. ALL CONCRETE THAT WILL BE PERMANENTLY EXPOSED TO WEATHER SHALL CONTAIN AN AIR ENTRAINING AGENT THAT PROVIDES FOUR (4) TO SIX (6) PERCENT AIR BY VOLUME.
3. VAULT CONCRETE SHALL HAVE SAND AND PEA-GRAVEL COARSE AGGREGATES AND A CORRESPONDING TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
4. CONCRETE PROTECTION FOR STEEL REINFORCEMENT SHALL BE AS FOLLOWS (SEE ACI 318, SECTION 7.7 FOR CONDITIONS NOT INDICATED):
ALL CONCRETE PLACED AGAINST SOIL 3"
SLABS ON GRADE AT SLAB MID-DEPTH 1 1/2" SIDES
FOOTINGS/GRADE BEAMS 3" BOTTOM AND SIDES, 1 1/2" TOP
5. LOCATE JOINTS TO LEAST IMPAIR STRENGTH AND APPEARANCE OF STRUCTURE. LOCATE HORIZONTAL JOINTS IN CONCRETE ONLY WHERE THEY NORMALLY OCCUR OR WHERE INDICATED ON PLAN. LOCATE VERTICAL JOINTS IN THE MIDDLE THIRD OF SPAN.
6. ROUGHEN SURFACE OF HORIZONTAL OR NEARLY HORIZONTAL CONSTRUCTION JOINTS SO THAT AGGREGATE SHALL BE EXPOSED UNIFORMLY, LEAVING NO LAFTANCE, LOOSEENED PARTICLES OR DAMAGED CONCRETE.
7. THE PLACEMENT OF SLEEVES OR OPENINGS THRU CONCRETE MEMBERS IS PROHIBITED UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER OF RECORD.
8. PROVIDE CHAMFERS AND REVEALS AS INDICATED IN THE ARCHITECTURAL DRAWINGS.
9. THE BUILDING OWNER SHALL SECURE AN INDEPENDENT TESTING LABORATORY TO PERFORM AT LEAST ONE COMPRESSIVE STRENGTH TEST FOR EACH ONE HUNDRED (100) CUBIC YARDS, OR FRACTION THEREOF, OF EACH MIX DESIGN OF CONCRETE PLACED ON ANY ONE DAY. THE LABORATORY SHALL RECORD THE MIX DESIGN, LOCATION OF PLACEMENT, AND SLUMP OF EACH SPECIMEN.
10. A COMPRESSIVE STRENGTH TEST SHALL BE COMPRISED OF FOUR (4) 6"x12" OR FIVE (5) 4"x8" CYLINDER SPECIMENS OBTAINED IN ACCORDANCE WITH ASTM C31. ONE (1) CYLINDER SPECIMEN SHALL BE TESTED AT SEVEN (7) DAYS FOR INFORMATION AND TWO (2) 6"x12" CYLINDER SPECIMENS OR THREE (3) 4"x8" CYLINDER SPECIMENS SHALL BE TESTED AT TWENTY-EIGHT (28) DAYS FOR ACCEPTANCE. THE REMAINING CYLINDER SPECIMEN SHALL BE HELD FOR TESTING AS DIRECTED.

REINFORCING STEEL NOTES

- 1. ALL DETAILING OF STEEL REINFORCEMENT AND ACCESSORIES SHALL CONFORM TO ACI COMMITTEE 315 PUBLICATION SP-66, "ACI DETAILING MANUAL."
2. DEFORMED BAR REINFORCEMENT SHALL BE DOMESTIC NEW BILLET STEEL IN CONFORMANCE WITH ASTM A615, GRADE 60.
3. WELDED WIRE FABRIC SHALL BE ELECTRICALLY WELDED, COLD-DRAWN WIRE IN CONFORMANCE WITH ASTM A185, GRADE 65. WELDED WIRE FABRIC SHALL BE PLACED IN FLAT SHEETS ONLY.
4. LAP WELDED WIRE FABRIC AT LEAST 1 1/2 SQUARES PLUS WIRE END EXTENSIONS BUT NOT LESS THAN TWELVE (12) INCHES, UNLESS NOTED OTHERWISE. EXTEND MESH ACROSS SUPPORTING BEAMS AND WALLS.

ADHESIVE ANCHOR AND DOWEL NOTES

- 1. WHERE INSTALLED IN THE PLANS AND DETAILS, ADHESIVE ANCHORS AND DOWELS SHALL BE NOTED WITH HILTI HY200 SAFE SET EPOXY IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
2. ADHESIVE ANCHORS AND/OR DOWELS NOT NOTED IN THE PLANS AND DETAILS ARE NOT ALLOWED WITHOUT PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER OF RECORD.
3. UNLESS NOTED OTHERWISE, THE MINIMUM EMBEDMENT DEPTH OF ADHESIVE ANCHORS AND DOWELS SHALL BE AS FOLLOWS:

ANCHOR/DOWEL EMBEDMENT

Table with 2 columns: ANCHOR/DOWEL and EMBEDMENT. Rows include 3/8" DIA. OR #3 BAR (4 1/2"), 1/2" DIA. OR #4 BAR (6"), 5/8" DIA. OR #5 BAR (9 5/8"), 3/4" DIA. OR #6 BAR (11 1/4"), 7/8" DIA. OR #7 BAR (13 1/8"), 1" DIA. OR #8 BAR (15").

STRUCTURAL STEEL NOTES

- 1. ALL STRUCTURAL STEEL DETAILING, FABRICATION AND INSTALLATION SHALL CONFORM TO THE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
2. PROVIDE NEW DOMESTIC STRUCTURAL STEEL IN ACCORDANCE WITH THE FOLLOWING:
WIDE FLANGE SHAPES ASTM A992
CHANNELS, PLATES AND ANGLES ASTM A36
STEEL TUBE ASTM A500, GRADE B
STEEL PIPE ASTM A53 (TYPES E OR S), GRADE B
3. THE DETAILER SHALL DESIGN ALL CONNECTIONS TO RESIST FIFTY (50) PERCENT OF THE ALLOWABLE SHEAR CAPACITY OF THE BEAM, UNLESS NOTED OTHERWISE. AS A MINIMUM, PROVIDE THE NUMBER OF BOLTS SHOWN BELOW FOR EACH BEAM SIZE:
BEAM SIZE NUMBER OF BOLTS
W8 & W10 2 MINIMUM
W12, W14, W16 3 MINIMUM
W18 & W21 4 MINIMUM
W24 & W27 5 MINIMUM
4. CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL BE 3/4 INCH DIAMETER ASTM A325-N BOLTS, UNLESS NOTED OTHERWISE.
5. ANCHOR BOLTS SHALL BE UNFINISHED THREADED FASTENERS THAT CONFORM TO ASTM F1554, GRADE 36 BOLTS AND NUTS WITH HEXAGONAL HEADS.
6. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED EXCEPT AS SPECIFICALLY INDICATED IN STRUCTURAL DRAWINGS.
7. ERECT ALL STEEL BEAMS WITH NATURAL OR SPECIFIED CAMBER UP.
8. UNLESS NOTED OTHERWISE, HOT DIP GALVANIZE ALL STRUCTURAL STEEL MEMBERS AND EMBEDS EXPOSED TO WEATHER OR SOIL AND WHERE INDICATED ON DRAWINGS. GALVANIZING SHALL CONFORM TO ASTM A123.
9. TOUCH UP FIELD WELDS ON GALVANIZED ITEMS WITH PAINT CONFORMING TO TT-P-641.

WELDING NOTES

- 1. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO AWS D1.1. USE E70XX ELECTRODES FOR FIELD AND SHOP WELDS. USE ONLY LOW-HYDROGEN ELECTRODES ON ASTM A242, A514, A572 AND A588 STEEL.
2. WELDS NOT INDICATED IN DRAWINGS SHALL BE MINIMUM SIZE CONTINUOUS FILLET WELD IN ACCORDANCE WITH AWS D1.1. FILLET WELDS SHALL BE CONTINUOUS, UNLESS NOTED OTHERWISE.
3. PROVIDE FILLET WELDS AT ALL CONTACT JOINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE CAPACITY OF THE SMALLER MEMBER AT THE JOINT, UNLESS NOTED OTHERWISE.
4. ALL GROOVE WELDS SHALL BE FULL PENETRATION, UNLESS NOTED OTHERWISE.
5. AUTOMATICALLY END WELD HEADED STUDS AND DEFORMED BARS WHERE INDICATED ON DRAWINGS. STUDS SHALL CONFORM TO ASTM A108.

STEEL JOIST NOTES

- 1. DESIGN, DETAILING, FABRICATION AND INSTALLATION OF STEEL JOISTS AND BRIDGING SHALL CONFORM TO THE STANDARDS OF THE STEEL JOIST INSTITUTE (SJI).
2. UNLESS NOTED OTHERWISE, DESIGN STEEL ROOF JOISTS FOR FIFTEEN (15) PSF NET UPLIFT NORMAL TO ROOF SURFACE.
3. ATTACH CONCENTRATED LOADS TO STEEL JOISTS AT JOIST PANEL POINTS OR PROVIDE ADDITIONAL CHORD BRACING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. WHERE JOIST BOTTOM CHORD EXTENSIONS ARE REQUIRED, DO NOT ATTACH TO COLUMNS, BEAMS OR WALLS, UNLESS NOTED OTHERWISE.

STEEL DECK NOTES

- 1. ALL STEEL DECK DETAILING, FABRICATION AND INSTALLATION SHALL CONFORM TO THE STANDARDS OF THE STEEL DECK INSTITUTE (SDI).
2. STEEL DECK SHALL BE INSTALLED CONTINUOUSLY ACROSS THREE OR MORE SPANS. DECKING SHALL BE ATTACHED TO STRUCTURAL MEMBERS IMMEDIATELY AFTER ALIGNMENT.
3. ROOF DECK SHALL BE 1.58, 22 GAGE GALVANIZED STEEL DECK AS MANUFACTURED BY VULCRAFT OR APPROVED SUBSTITUTE. UNLESS NOTED OTHERWISE, FASTEN DECK TO SUPPORTING MEMBERS WITH 5/8 INCH PUDDLE WELDS IN A 36/4 PATTERN WITH THREE (3) #10 TEK SCREW SIDELAP FASTENERS PER SPAN TO RESIST A NET UPLIFT OF FIFTEEN (15) PSF AND A MINIMUM DIAPHRAGM SHEAR VALUE OF 280 PLF.
4. NON-COMPOSITE DECK AT MEZZANINE SHALL BE 1.0C, 22 GAGE GALVANIZED STEEL DECK AS MANUFACTURED BY VULCRAFT OR APPROVED SUBSTITUTE, UNLESS NOTED OTHERWISE. FASTEN DECK TO SUPPORTING MEMBERS WITH WELDS AND WELDING WASHERS IN A 33/4 PATTERN WITH TWO (2) #10 TEK SCREW SIDELAP FASTENERS PER SPAN TO RESIST A MINIMUM DIAPHRAGM SHEAR VALUE OF 1,350 PLF AND NET UPLIFT OF 75 PSF.

PRE-ENGINEERED METAL BUILDING NOTES

- 1. THE PRE-ENGINEERED METAL BUILDING SYSTEM INCLUDING RIGID FRAMES, COLUMNS, BEAMS, PURLINS, GIRTS, SIDING, ROOFING AND LATERAL BRACING SHALL BE DESIGNED, DETAILED AND FABRICATED BY A MANUFACTURER WHO IS A MEMBER OF THE METAL BUILDING MANUFACTURER'S ASSOCIATION (MBMA) IN ACCORDANCE WITH THE ABOVE REFERENCED BUILDING CODE AND THE MBMA "LOW RISE BUILDING SYSTEMS MANUAL."
2. THE PRE-ENGINEERED METAL BUILDING SYSTEM INCLUDING RIGID FRAMES, COLUMNS, BEAMS, PURLINS, GIRTS, SIDING, ROOFING AND LATERAL BRACING SHALL BE INSTALLED BY AN EXPERIENCED METAL BUILDING ERECTOR.
3. ALL STRUCTURAL STEEL COMPONENTS AND CONNECTIONS SHALL BE DESIGNED, DETAILED AND FABRICATED BY THE MANUFACTURER IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
4. ALL COLD FORMED STEEL COMPONENTS AND CONNECTIONS SHALL BE DESIGNED, DETAILED AND FABRICATED BY THE MANUFACTURER IN ACCORDANCE WITH THE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE (AISI).
5. THE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT ALL CODE PRESCRIBED LOADS AND LOAD COMBINATIONS INCLUDING DEAD, LIVE, ROOF LIVE, SNOW, WIND AND SEISMIC LOADS.
6. AS A MINIMUM, ALL METAL BUILDING ROOF FRAMING INCLUDING PURLINS, RIGID FRAMES, COLUMNS AND BEAMS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT A SUPERIMPOSED LOAD OF TWENTY-FIVE (25) PSF (COMPOSED OF FIVE (5) PSF COLLATERAL DEAD LOAD AND TWENTY (20) PSF LIVE LOAD) IN ADDITION TO THE WEIGHT OF THE STRUCTURE.
7. RIGID FRAMES SHALL CONSIST OF WELDED STRUCTURAL STEEL PLATE RAFTERS SUPPORTED BY WELDED STRUCTURAL STEEL FRAME COLUMNS. REFER TO ARCHITECTURAL DRAWINGS FOR COLUMN SIZE AND PROFILE REQUIREMENTS. RIGID FRAMES AND LATERAL BRACING INCLUDING PORTAL FRAMES AND ROD X-BRACING SHALL BE DESIGNED BY THE MANUFACTURER FOR A MAXIMUM HORIZONTAL STORY DRIFT OF H/120 FOR WIND LOADS.
8. ENDWALL FRAMING SHALL CONSIST OF COLD-FORMED LIGHT GAGE STEEL BEARING FRAME RAFTERS SUPPORTED BY COLD-FORMED LIGHT GAGE STEEL ENDWALL COLUMNS. ENDWALL COLUMNS SHALL BE DESIGNED BY THE MANUFACTURER FOR A MAXIMUM HORIZONTAL DEFLECTION OF L/120 FOR WIND LOADS. BUILDING X-BRACING IN THE ENDWALL SHALL BE DESIGNED BY THE MANUFACTURER FOR A MAXIMUM HORIZONTAL STORY DRIFT OF H/120 FOR WIND LOADS.
9. UNLESS NOTED OTHERWISE, EAVE STRUTS SHALL BE COLD-FORMED LIGHT GAGE STEEL "C" SHAPES WITH BRACING AND TIE/SAG RODS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. EAVE STRUTS SHALL BE DESIGNED BY THE MANUFACTURER FOR A MAXIMUM VERTICAL DEFLECTION OF L/180 FOR TOTAL LOAD AND L/240 FOR ROOF LIVE LOAD. EAVE STRUTS SHALL BE DESIGNED BY THE MANUFACTURER FOR A MAXIMUM HORIZONTAL DEFLECTION OF L/120 FOR WIND LOADS.
10. UNLESS NOTED OTHERWISE, WALL GIRTS SHALL BE COLD-FORMED LIGHT GAGE STEEL "Z" SHAPES WITH BRACING AND SAG RODS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. WALL GIRTS SHALL BE DESIGNED BY THE MANUFACTURER FOR A MAXIMUM HORIZONTAL DEFLECTION OF L/120 FOR WIND LOADS.
11. UNLESS NOTED OTHERWISE, ROOF PURLINS SHALL BE COLD-FORMED LIGHT GAGE STEEL "Z" SHAPES WITH BRACING AND TIE/SAG RODS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. ROOF PURLINS SHALL BE DESIGNED BY THE MANUFACTURER FOR A MAXIMUM VERTICAL DEFLECTION OF L/180 FOR TOTAL LOAD AND L/240 FOR ROOF LIVE LOAD.
12. ALL BOLT HOLES FOR FRAME CONNECTIONS, SPLICES AND THE ATTACHMENT OF SECONDARY MEMBERS SHALL BE SHOP FABRICATED, UNLESS NOTED OTHERWISE.
13. ALL PRE-ENGINEERED METAL BUILDING COMPONENTS SHALL BE COATED WITH PRIMER PAINT IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
14. THE CONTRACTOR SHALL SUBMIT COMPLETE ERECTION AND FABRICATION DRAWINGS AND DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. SUBMITTAL SHALL INCLUDE FRAMING PLANS SHOWING ALL PRE-ENGINEERED METAL BUILDING MEMBERS WITH MARK NUMBERS FOR EACH MEMBER TYPE.

LIGHTGAGE STEEL STUD FRAMING NOTES

- 1. LIGHTGAGE STEEL FRAMING SHALL BE MANUFACTURED BY DEITRICH INDUSTRIES, OR APPROVED SUBSTITUTE.
2. DESIGN, DETAILING, FABRICATION AND INSTALLATION OF LIGHTGAGE STEEL FRAMING SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. LIGHTGAGE STEEL FRAMING SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653.
4. ALL EXTERIOR WALL STUDS THAT PROVIDE BACKUP TO MASONRY VENEER SHALL BE DESIGNED BY THE MANUFACTURER FOR A MAXIMUM DEFLECTION OF L/600 UNDER CODE PRESCRIBED LATERAL LOADS.
5. AS A MINIMUM, EXTERIOR WALL STUDS SHALL BE SIX (6) INCH CSJ, 18 GAGE STEEL STUDS AT SIXTEEN (16) INCHES ON CENTER, UNLESS NOTED OTHERWISE.
6. AS A MINIMUM, CONTINUOUS TOP AND BOTTOM TRACK FOR EXTERIOR WALLS SHALL BE SIX (6) INCH TSC, 20 GAGE STEEL TRACK. UNLESS NOTED OTHERWISE, FASTEN TRACK TO EACH STUD WITH #8 TEK SCREWS AT EACH SIDE OF WALL.
7. AS A MINIMUM, THE BOTTOM TRACK OF EXTERIOR WALLS SHALL BE FASTENED TO THE FOUNDATION WITH 0.177 INCH DIAMETER POWDER ACTUATED FASTENERS WITH A MINIMUM OF 1 7/16 INCHES EMBEDMENT, AT TWENTY-FOUR (24) INCHES ON CENTER.

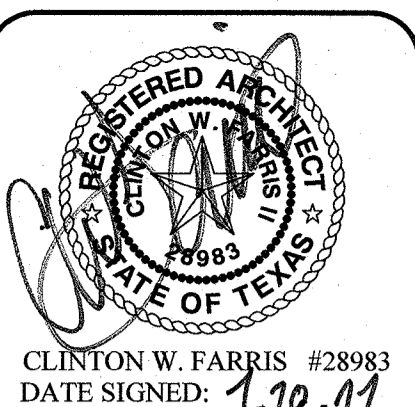
REINFORCED CONCRETE MASONRY NOTES

- 1. REINFORCED CONCRETE MASONRY WALL CONSTRUCTION HAS BEEN DESIGNED FOR A MINIMUM COMPRESSION STRENGTH (fm) OF 1,500 PSI. THIS VALUE SHALL BE VERIFIED IN ACCORDANCE WITH NCMA TR 75B, "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY."
2. CONCRETE BLOCK SHALL BE ASTM C90 LIGHT-WEIGHT UNITS OF EIGHT (8) INCH NOMINAL THICKNESS WITH A MINIMUM COMPRESSION STRENGTH OF 1,900 PSI ON THE NET AREA OF THE BLOCK.
3. MORTAR SHALL BE TYPE "M" OR "S" IN ACCORDANCE WITH ASTM C270 AND SHALL HAVE A TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF 2,500 PSI OR 1,800 PSI, RESPECTIVELY. AGGREGATES FOR MORTAR SHALL CONFORM TO ASTM C144.
4. GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8 INCH AND A 28-DAY COMPRESSIVE STRENGTH OF 2,000 PSI. AGGREGATES FOR GROUT SHALL CONFORM TO ASTM C404.
5. LAP SPLICE LENGTH FOR CONTINUOUS DEFORMED BAR REINFORCEMENT IN CONCRETE MASONRY CONSTRUCTION SHALL BE AS FOLLOWS:
#3 BARS 19 INCHES MINIMUM
#4 BARS 25 INCHES MINIMUM
#5 BARS 31 INCHES MINIMUM
#6 BARS 57 INCHES MINIMUM
6. ALL CELLS CONTAINING REINFORCING BARS, BOLTS OR OTHER METAL FABRICATIONS SHALL BE GROUDED SOLID. ANY CELLS AT OR BELOW FINISHED GRADE SHALL BE GROUDED SOLID.
7. REINFORCED CONCRETE MASONRY CONSTRUCTION SHALL BE RUNNING BOND, UNLESS NOTED OTHERWISE.

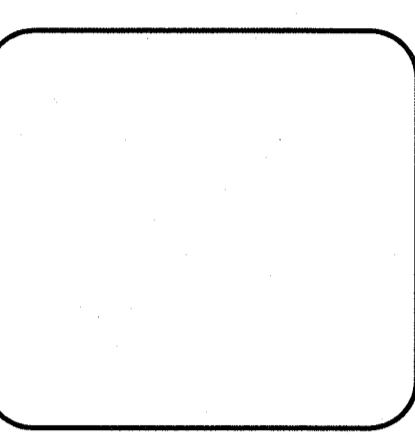
STRUCTURAL ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS ARE REFERENCED IN THE STRUCTURAL DRAWINGS. PLEASE CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR ANY CLARIFICATION, PRIOR TO FABRICATION.

Table with 4 columns: Abbreviation, Description, Unit, and Material/Reference. Includes entries for ACI, AISC, AISI, ALT, APA, ARCHL, ASSY, ASTM, B/, B/B, BLDG, BOT, BRG, C.L, CLG, CMU, UNITS, COL, CONC, CONN, CONT, CONST, COORD, CRSI, DB, D.B.A, DFL, DIA, DIM, DL, DTL, DWL, EL, EMBED, EO, EXP, FB, F/, FLR, FTG, GALV, GYP, HORIZ, HVAC, IBC, CODE, ID, INFO, KIP, KSI, INCH, LBS, LL, LLI, LLV, LSL, LT, GAGE, LVL, MAT'L, MAX, MECHL, MFR, MIN, NDS, NTS, O.C, O.D, OPENG, OPP, P.E.M.B, BUILDING, PL, PLF, PRE-FAB, PSF, PSI, PSL, P.T, R, REF, REINFC, REQ'D, REV, RTU, SCHED, SIM, SJ, SFL, SQ, STD, STIRR, SYP, T/, T/CONC, T/FOOTING, T/METAL, T/PANEL, T/PARAPET, T/PIER, T/PILECAP, T/SHEATHING, T/SLAB, T/STEEL, T/WALL, TYP, U.N.O, VERT, W/, W/O, W.W.F.



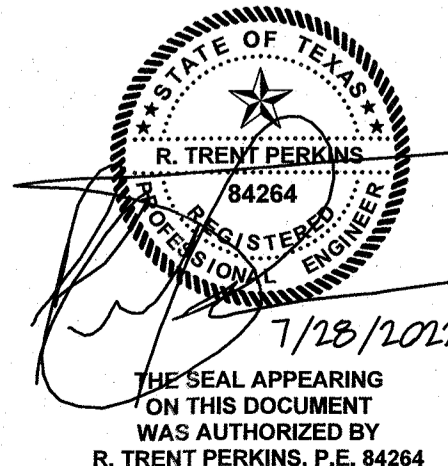
HPA logo and contact information: ESTABLISHED 1962, ARCHITECTS PROGRAMMERS PLANNERS, 4724 OLD JACKSBORO HIGHWAY, WICHITA FALLS, TEXAS 76702-3599, VOICE: 940.767.1421, FAX: 940.397.0273, WEB: www.hpa1962.com



Vertical text: ADDITIONS AND RENOVATIONS TO THE GORDON I.S.D. CAMPUS FOR GORDON I.S.D. GORDON, TEXAS 76453

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Project information: DRAWN BY: RTP, DATE: 28 JULY 2022, REVISIONS table, PROJECT NO. 20864.00, SHEET NO. S101, RHP#: 22062



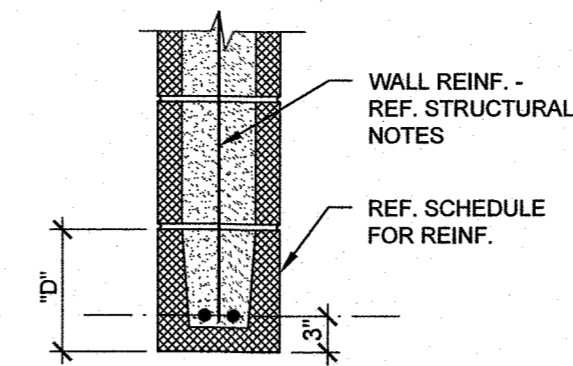
STRUCTURAL, PLLC logo and contact information: Texas Engineering Firm F-16159, P.O. Box 1599, Rockwall, Texas 75087, Phone: 214-293-2503, RHP#: 22062

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CONCRETE REINFORCING LAP SPLICE SCHEDULE	
BAR SIZE	LAP
3	1'-6"
4	2'-0"
5	2'-6"
6	3'-0"
7	4'-2"
8	4'-8"
9	5'-4"
10	6'-0"
11	6'-8"

CONCRETE DOWEL SCHEDULE				
MARK	SIZE	A		
		A	B	C
DWL A	#4	2'-6"	1'-0"	-
DWL B	#5	2'-9"	0'-8"	-
DWL C	#3	2'-0"	2'-0"	-
DWL D	#5	2'-0"	1'-0"	-
DWL E	#4	2'-0"	AS REQ'D	-
DWL F	#4	AS REQ'D	0'-8"	-
DWL G	#4	2'-6"	0'-8"	0'-8"

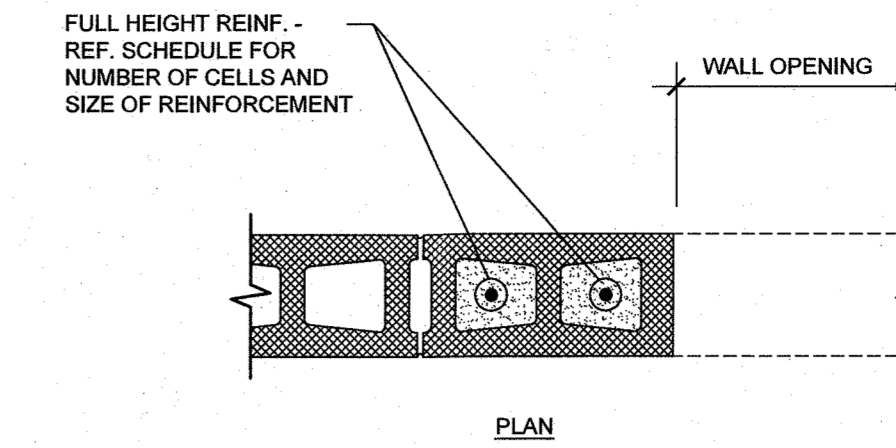
- NOTES:
- SCHEDULED DOWELS ARE MARKED "DWL." ON THE SECTIONS AND DETAILS.
 - DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT, UNLESS NOTED OTHERWISE.
 - STRAIGHT BARS SHALL BE PLACED WITH ONE HALF OF BAR LENGTH ON EACH SIDE OF COLD JOINT, UNLESS NOTED OTHERWISE.



TYPE "A" - CMU LINTEL BLOCK

CONCRETE MASONRY LINTEL SCHEDULE				
MARK	TYPE	DEPTH, "D"	REINF.	MAXIMUM OPENING
TYPICAL, U.N.O.	A	8"	2-#4 CONT.	4'-0"
TYPICAL, U.N.O.	A	16"	2-#5 CONT.	8'-0"
TYPICAL, U.N.O.	A	24"	2-#5 CONT.	12'-0"

- NOTES:
- EXTEND BEAMS 8" BEYOND FACE OF OPENING.
 - VERTICAL CELLS ADJACENT TO OPENINGS SHALL BE REINFORCED PER TYP. WALL REINF. AND GROUTED SOLID - REF. STRUCTURAL NOTES.



OPENING WIDTH	CMU JAMB			
	EXTERIOR		INTERIOR	
	NUMBER OF GROUTED CELLS	REINF./CELL	NUMBER OF GROUTED CELLS	REINF./CELL
≤ 4'-0"	2	1-#5	2	1-#5
≤ 8'-0"	3	1-#5	2	1-#5
≤ 12'-0"	3	1-#6	2	1-#5

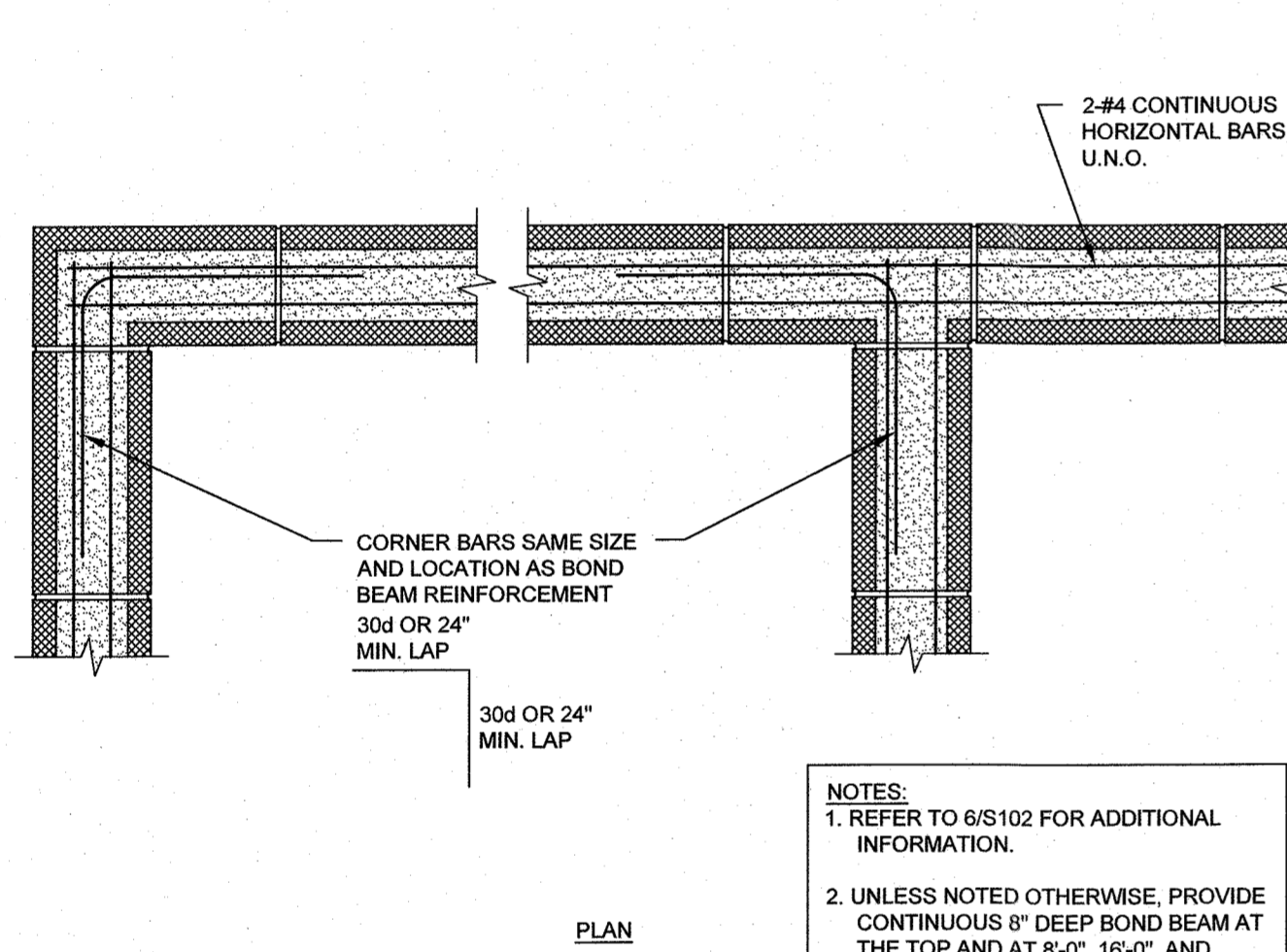
- NOTES:
- HORIZONTAL REINFORCEMENT OMITTED FOR CLARITY. REFER TO 02MTYP02 FOR ADDITIONAL INFORMATION.
 - AT MEZZANINES, USE FOUR (4) GROUTED CELLS WITH 2-#8 BARS (1 EACH FACE) IN EACH CELL (4'-0" OPENING MAX).

01 SCHEDULE
NO SCALE

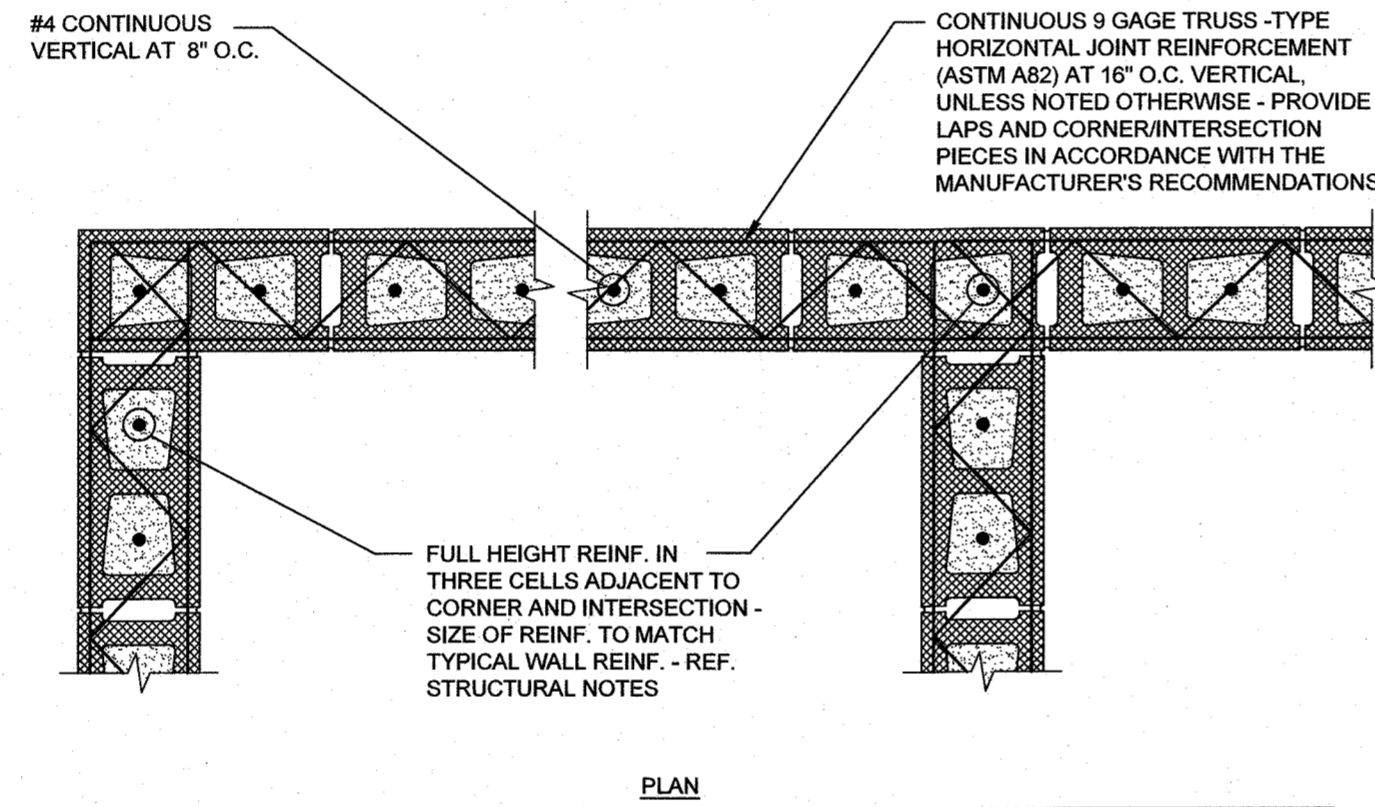
02 SCHEDULE
NO SCALE

03 TYPICAL CMU LINTEL SCHEDULE
NO SCALE

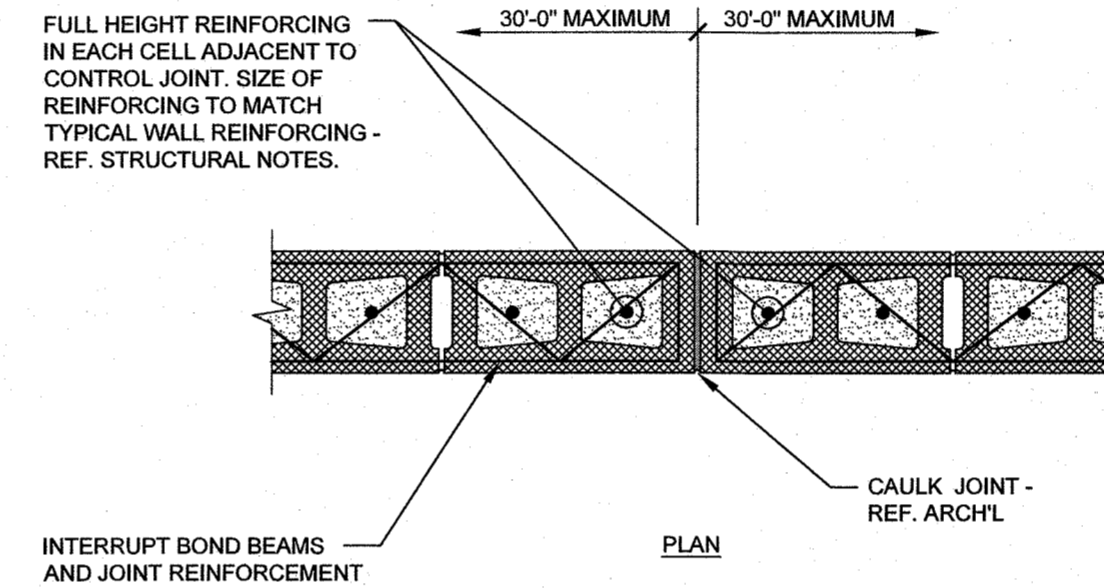
04 TYPICAL CMU JAMB SCHEDULE
NO SCALE



- NOTES:
- REFER TO 6/S102 FOR ADDITIONAL INFORMATION.
 - UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS 8" DEEP BOND BEAM AT THE TOP AND AT 8'-0", 16'-0", AND 24'-0" ABOVE FINISHED FLOOR IN ALL WALLS.



- NOTE: REF. REINFORCED CONCRETE MASONRY NOTES FOR ADDITIONAL INFORMATION.



- NOTES:
- REF. 6/S102 FOR ADDITIONAL INFORMATION.
 - CONTROL JOINTS SHALL BE LOCATED AT WALL OPENINGS, AT 30'-0" O.C. MAXIMUM, AND AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
 - OFFSET CONTROL JOINTS TO THE END LINTEL AND SUPPORTING CELLS AT OPENINGS.

TYPICAL STEEL LINTEL SCHEDULE FOR OPENINGS IN MASONRY VENEER		
MAXIMUM SPAN	SIZE	MINIMUM BEARING
3'-0"	L3 1/2x3 1/2x3/8	8"
5'-0"	L4x4x3/8	8"
8'-0"	L5x3 1/2x3/8 LLV	12"
10'-0"	L6x4x3/8 LLV	12"

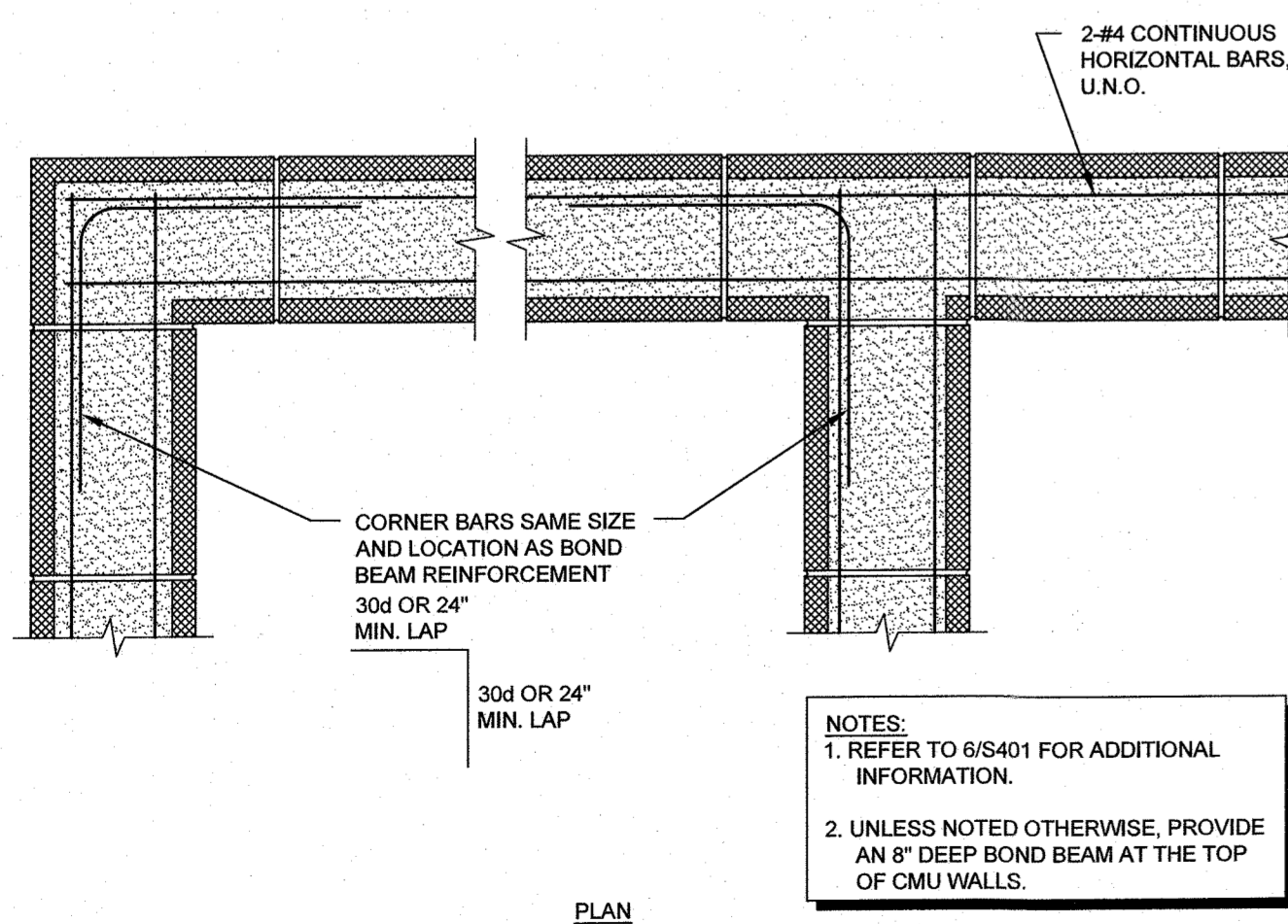
- NOTES:
- CONTACT ENGINEER OF RECORD FOR OPENINGS LARGER THAN 10'-0"
 - ALL LINTELS IN EXTERIOR WALLS SHALL BE PROTECTED WITH PAINT OR HOT DIP GALVANIZING CONFORMING TO ASTM A123.

05 TYPICAL CMU WALL BOND BEAM REINFORCEMENT DETAIL
NO SCALE

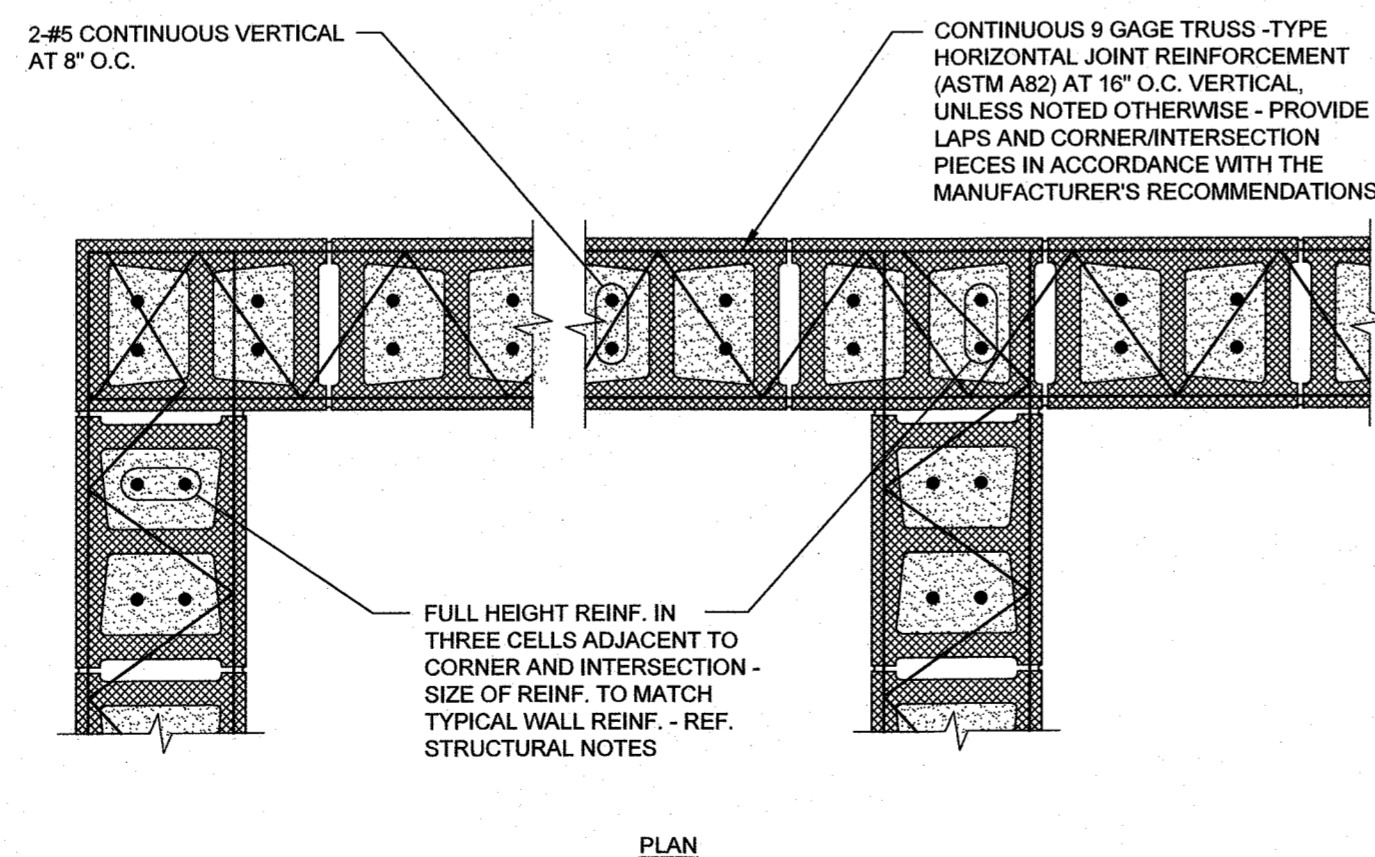
06 TYPICAL CMU WALL REINFORCEMENT DETAIL
NO SCALE

07 TYPICAL CMU WALL CONTROL JOINT DETAIL
NO SCALE

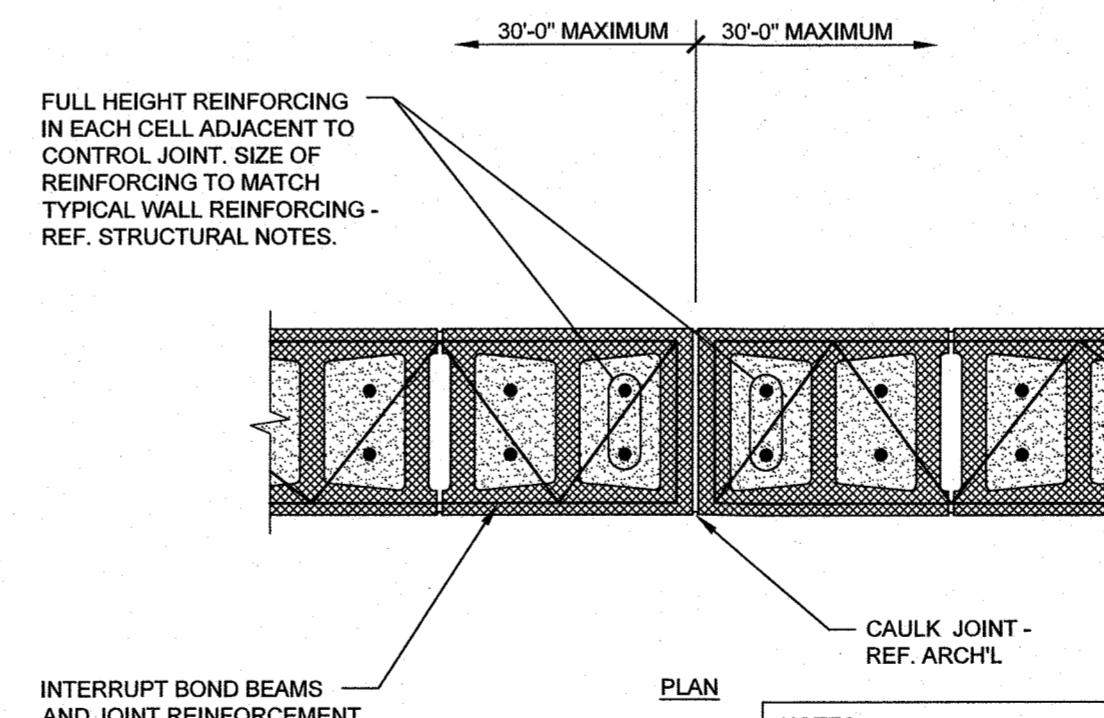
08 SCHEDULE
NO SCALE



- NOTES:
- REFER TO 6/S401 FOR ADDITIONAL INFORMATION.
 - UNLESS NOTED OTHERWISE, PROVIDE AN 8" DEEP BOND BEAM AT THE TOP OF CMU WALLS.



- NOTE: REF. REINFORCED CONCRETE MASONRY NOTES FOR ADDITIONAL INFORMATION.



- NOTES:
- REF. 6/S401 FOR ADDITIONAL INFORMATION.
 - CONTROL JOINTS SHALL BE LOCATED AT WALL OPENINGS, AT 30'-0" O.C. MAXIMUM, AND AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
 - OFFSET CONTROL JOINTS TO THE END LINTEL AND SUPPORTING CELLS AT OPENINGS.

09 TYPICAL 12" CMU WALL BOND BEAM REINFORCEMENT DETAIL AT MEZZANINE
NO SCALE

10 TYPICAL 12" CMU WALL REINFORCEMENT DETAIL AT MEZZANINE
NO SCALE

11 TYPICAL 12" CMU WALL CONTROL JOINT DETAIL AT MEZZANINE
NO SCALE

REGISTERED ARCHITECT
CLAYTON W. FARRIS #28983
DATE SIGNED: 4-23-22

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ESTABLISHED 1962
ARCHITECTS - PROGRAMMERS - PLANNERS
4724 OLD JACKSBORO HIGHWAY
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WEB: www.hpa1962.com

ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
FOR GORDON I.S.D.
112 RUSK STREET
GORDON, TEXAS 76453

DRAWN BY: RTP
DATE: 28 JULY 2022

REVISIONS		
NO.	DESCRIPTION	DATE

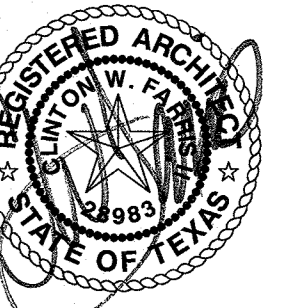
PROJECT NO.
20864.00

SHEET NO.
S102

STATE OF TEXAS
REGISTERED PROFESSIONAL ENGINEER
R. TRENT PERKINS
84264
7/28/2022

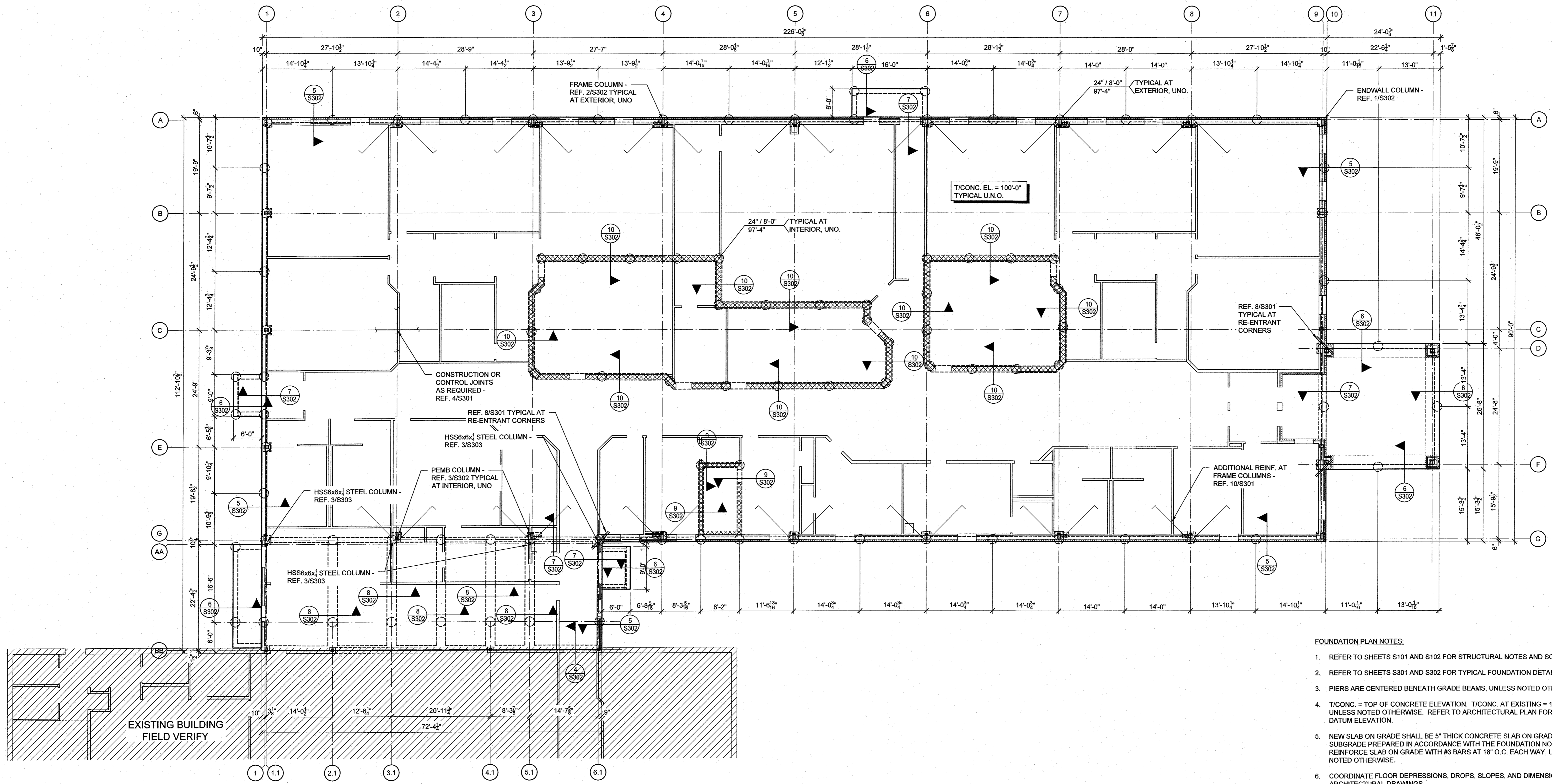
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Phone 214-293-2503
RTP#: 22062

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DATE SIGNED: 7/23/22

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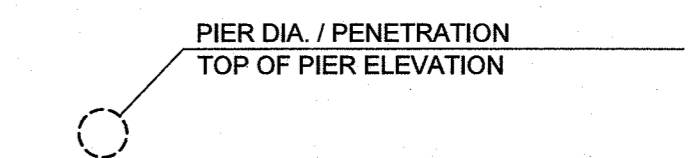
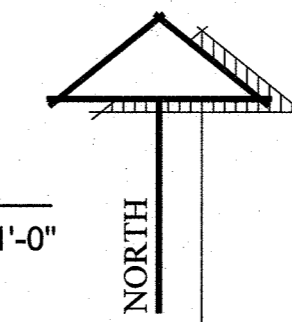


FOUNDATION PLAN NOTES:

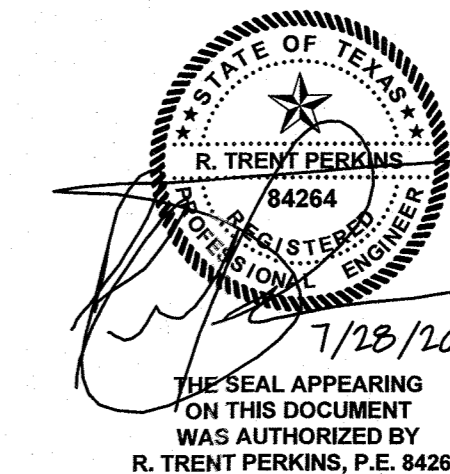
- REFER TO SHEETS S101 AND S102 FOR STRUCTURAL NOTES AND SCHEDULES.
- REFER TO SHEETS S301 AND S302 FOR TYPICAL FOUNDATION DETAILS.
- PIERS ARE CENTERED BENEATH GRADE BEAMS, UNLESS NOTED OTHERWISE.
- T/CONC. = TOP OF CONCRETE ELEVATION. T/CONC. AT EXISTING = 100'-0", UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL PLAN FOR RELATIVE DATUM ELEVATION.
- NEW SLAB ON GRADE SHALL BE 5" THICK CONCRETE SLAB ON GRADE OVER SUBGRADE PREPARED IN ACCORDANCE WITH THE FOUNDATION NOTES. REINFORCE SLAB ON GRADE WITH #3 BARS AT 18" O.C. EACH WAY, UNLESS NOTED OTHERWISE.
- COORDINATE FLOOR DEPRESSIONS, DROPS, SLOPES, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- PIERS ARE NOTED THUS ON PLAN (REF. 1/S301):

FOUNDATION PLAN - SECONDARY

SCALE: 3/32"=1'-0"



NOTE:
FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION AND/OR INSTALLATION OF NEW STRUCTURAL MEMBERS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN CONDITIONS OBSERVED IN THE FIELD AND CONDITIONS INDICATED ON PLAN.



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PROJECT NO.
20864.00

SHEET NO.

S201

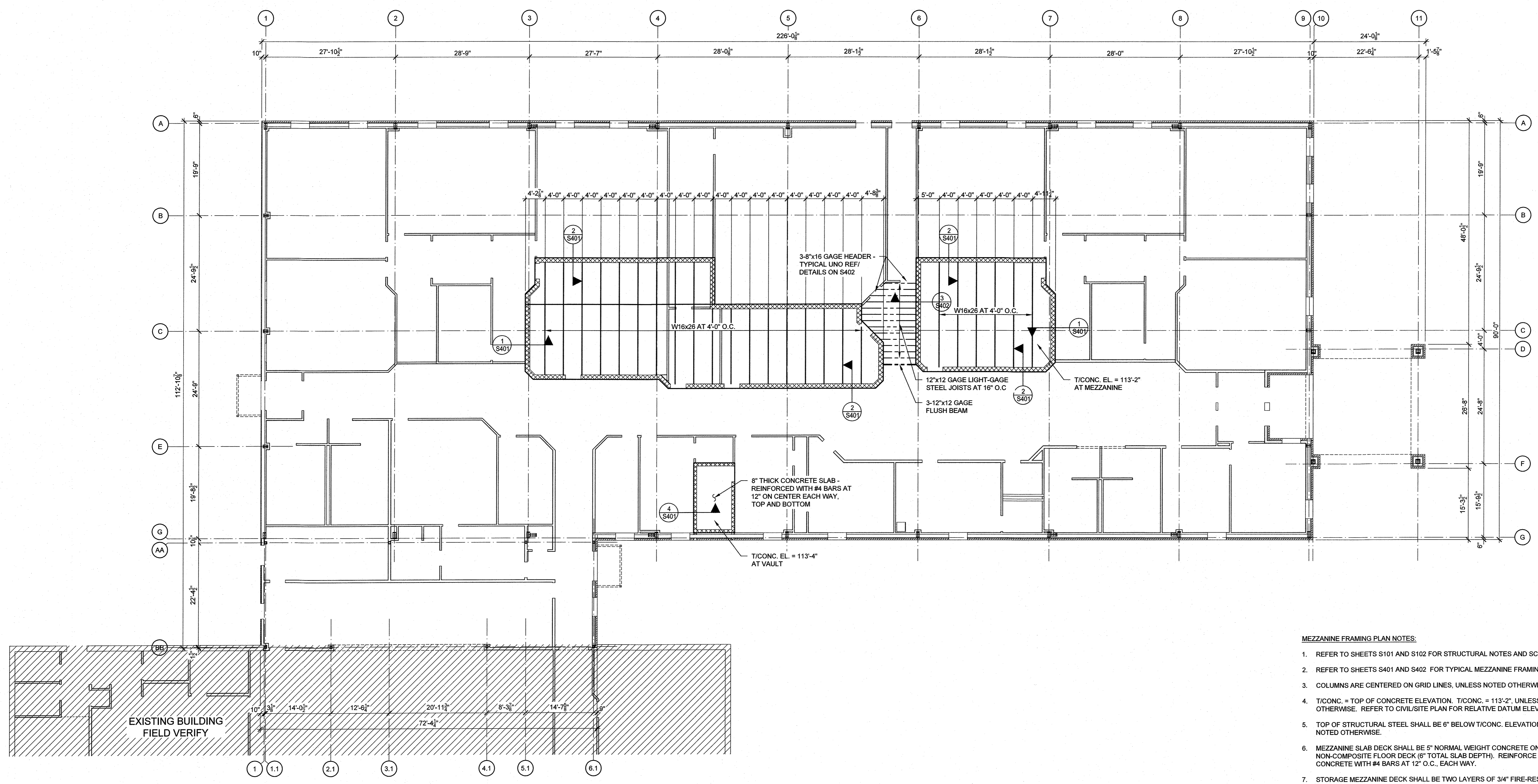
ADDITIONS AND RENOVATIONS TO THE

GORDON I.S.D. CAMPUS
FOR GORDON I.S.D.

GORDON, TEXAS 76453

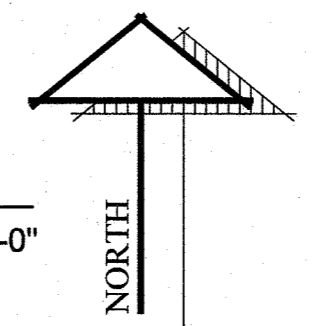
112 RUSK STREET

ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
FOR GORDON I.S.D.
112 RUSK STREET
GORDON, TEXAS 76453



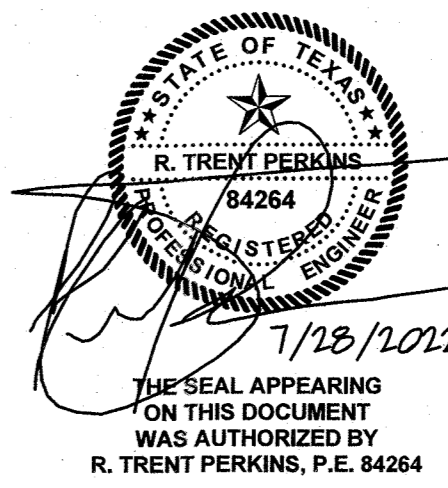
MEZZANINE FRAMING PLAN - SECONDARY

SCALE: 3/32"=1'-0"



- MEZZANINE FRAMING PLAN NOTES:**
- REFER TO SHEETS S101 AND S102 FOR STRUCTURAL NOTES AND SCHEDULES.
 - REFER TO SHEETS S401 AND S402 FOR TYPICAL MEZZANINE FRAMING DETAILS.
 - COLUMNS ARE CENTERED ON GRID LINES, UNLESS NOTED OTHERWISE.
 - T/CONC. = TOP OF CONCRETE ELEVATION. T/CONC. = 113'-2", UNLESS NOTED OTHERWISE. REFER TO CIVIL/SITE PLAN FOR RELATIVE DATUM ELEVATION.
 - TOP OF STRUCTURAL STEEL SHALL BE 6" BELOW T/CONC. ELEVATION, UNLESS NOTED OTHERWISE.
 - MEZZANINE SLAB DECK SHALL BE 5" NORMAL WEIGHT CONCRETE ON NON-COMPOSITE FLOOR DECK (6" TOTAL SLAB DEPTH). REINFORCE CONCRETE WITH #4 BARS AT 12" O.C., EACH WAY.
 - STORAGE MEZZANINE DECK SHALL BE TWO LAYERS OF 3/4" FIRE-RESISTANT PLYWOOD OVER 5/8" TYPE 'X' FIRE-RATED GYPSUM BOARD. STAGGER ALL PANEL EDGES BETWEEN ADJACENT LAYERS OF SHEATHING. FASTEN ALL PANELS WITH #10 TEK SCREWS AT SIX (6) INCHES ON CENTER AT ALL PANEL EDGES AND INTERMEDIATE SUPPORTS.
 - COORDINATE FLOOR DEPRESSIONS, DROPS, SLOPES, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

NOTE:
FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION AND/OR INSTALLATION OF NEW STRUCTURAL MEMBERS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN CONDITIONS OBSERVED IN THE FIELD AND CONDITIONS INDICATED ON PLAN.



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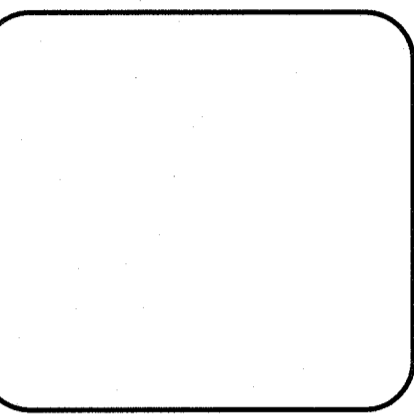
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DATE: 28 JULY 2022

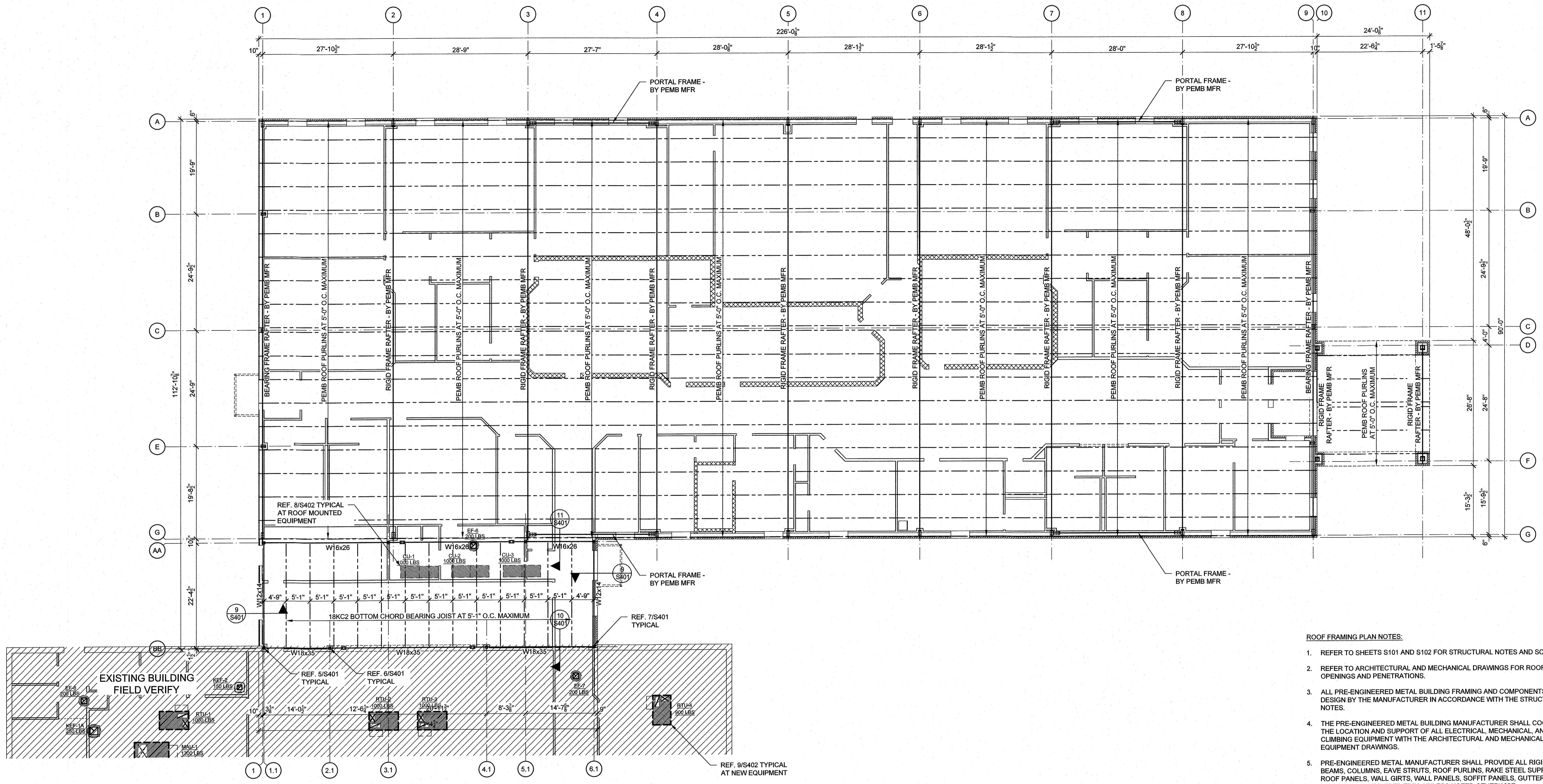
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SHEET NO.
S202



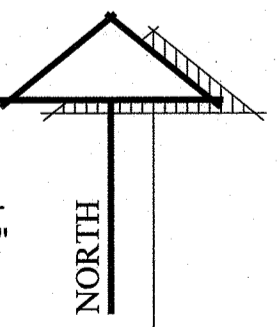
ADDITIONS AND RENOVATIONS TO THE
GORDON I.S.D. CAMPUS
FOR GORDON I.S.D.
112 RUSK STREET
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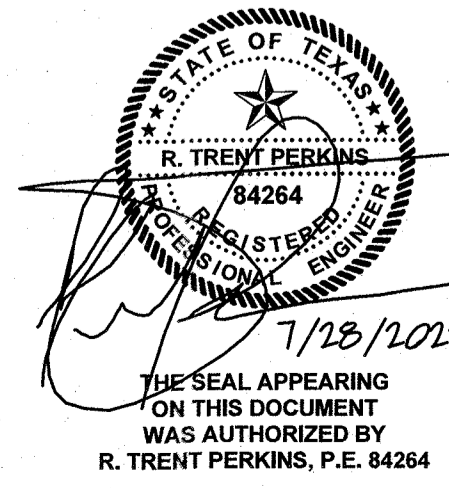
- ROOF FRAMING PLAN NOTES:**
- REFER TO SHEETS S101 AND S102 FOR STRUCTURAL NOTES AND SCHEDULES.
 - REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ROOF OPENINGS AND PENETRATIONS.
 - ALL PRE-ENGINEERED METAL BUILDING FRAMING AND COMPONENTS SHALL BE DESIGN BY THE MANUFACTURER IN ACCORDANCE WITH THE STRUCTURAL NOTES.
 - THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL COORDINATE THE LOCATION AND SUPPORT OF ALL ELECTRICAL, MECHANICAL, AND CLIMBING EQUIPMENT WITH THE ARCHITECTURAL AND MECHANICAL EQUIPMENT DRAWINGS.
 - PRE-ENGINEERED METAL MANUFACTURER SHALL PROVIDE ALL RIGID FRAMES, BEAMS, COLUMNS, EAVE STRUTS, ROOF PURLINS, RAKE STEEL SUPPORTS, ROOF PANELS, WALL GIRTS, WALL PANELS, SOFFIT PANELS, GUTTERS, DOWN SPOUTS, AND REQUIRED TRIM, UNLESS NOTED OTHERWISE.

ROOF FRAMING PLAN - SECONDARY

SCALE: 3/32"=1'-0"



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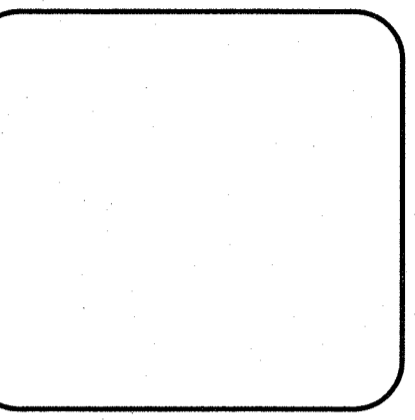
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SHEET NO.
S203

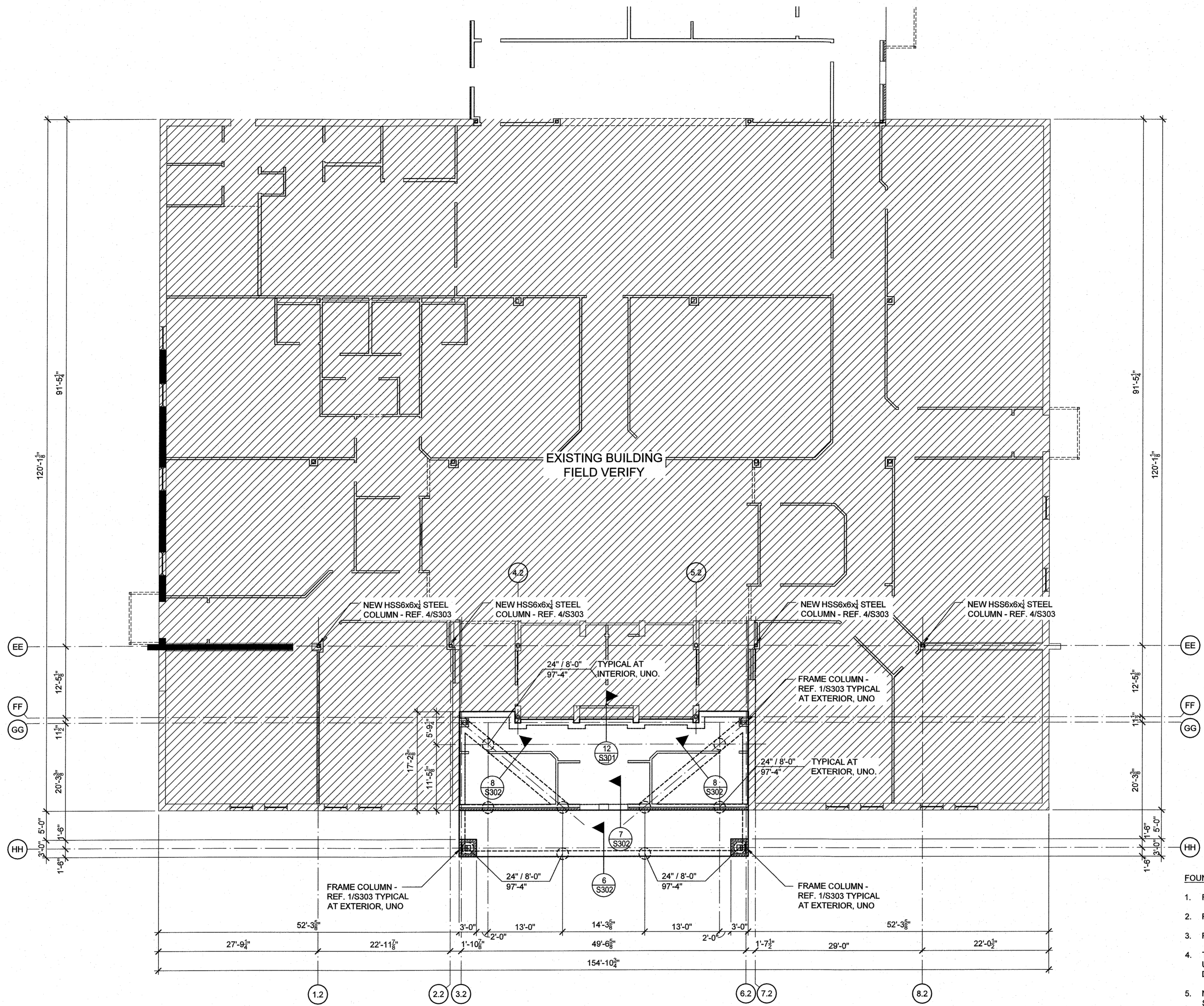


CLINTON W. FARRIS #28983
DATE SIGNED: 1-28-22

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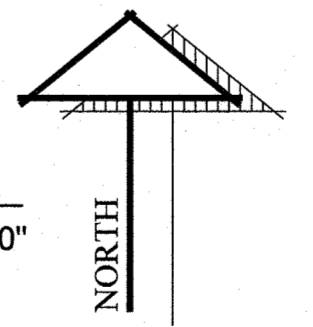
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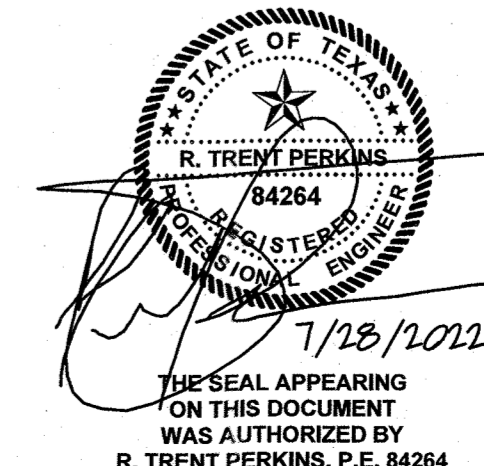
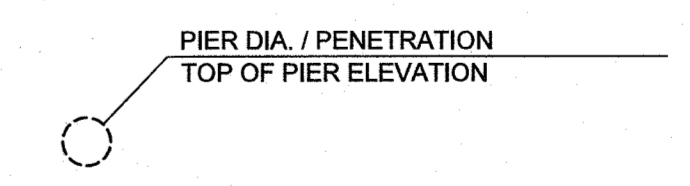
- FOUNDATION PLAN NOTES:**
- REFER TO SHEETS S101 AND S102 FOR STRUCTURAL NOTES AND SCHEDULES.
 - REFER TO SHEETS S301 AND S302 FOR TYPICAL FOUNDATION DETAILS.
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 - COORDINATE FLOOR DEPRESSIONS, DROPS, SLOPES, AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - PIERS ARE NOTED THUS ON PLAN (REF. 1/S301):

FOUNDATION PLAN - ELEMENTARY

SCALE: 3/32"=1'-0"



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KITW: 22062

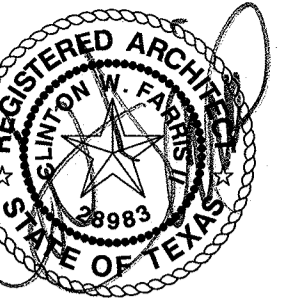
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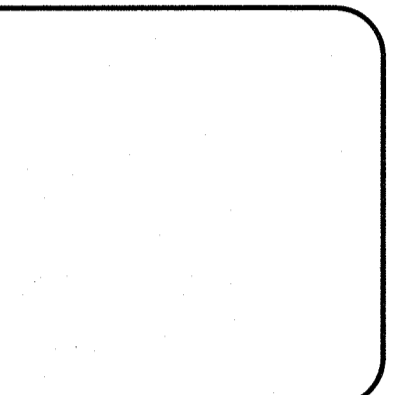
REVISIONS		
NO.	DESCRIPTION	DATE

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20864.00
SHEET NO.
S204

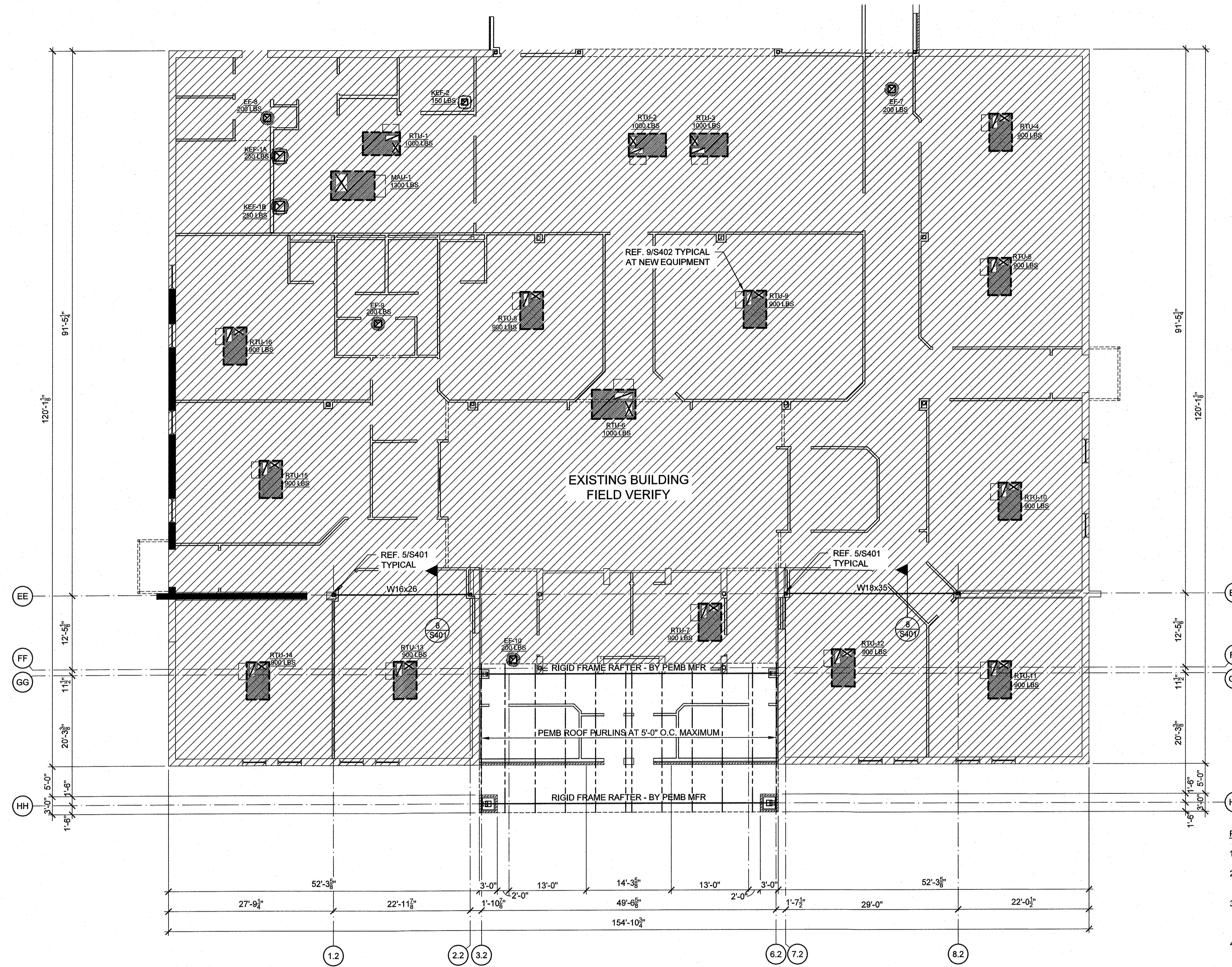


CLINTON W. FARRIS #28983
DATE SIGNED: 7-28-22

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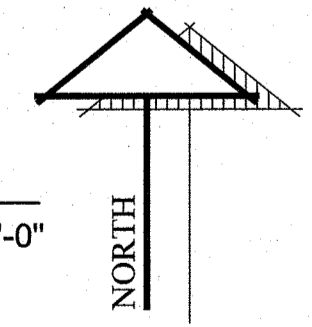
ADDITIONS AND RENOVATIONS TO THE
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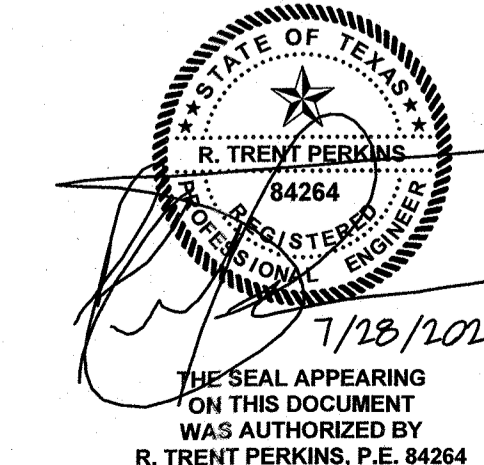
- ROOF FRAMING PLAN NOTES:**
- REFER TO SHEETS S101 AND S102 FOR STRUCTURAL NOTES AND SCHEDULES.
 - REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ROOF OPENINGS AND PENETRATIONS.
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 - PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL PROVIDE ALL RIGID FRAMES, BEAMS, COLUMNS, EAVE STRUTS, ROOF PURLINS, RAKE STEEL SUPPORTS, ROOF PANELS, WALL GIRTS, WALL PANELS, SOFFIT PANELS, GUTTERS, DOWN SPOUTS, AND REQUIRED TRIM, UNLESS NOTED OTHERWISE.

ROOF FRAMING PLAN - ELEMENTARY

SCALE: 3/32"=1'-0"



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RTP#: 22062

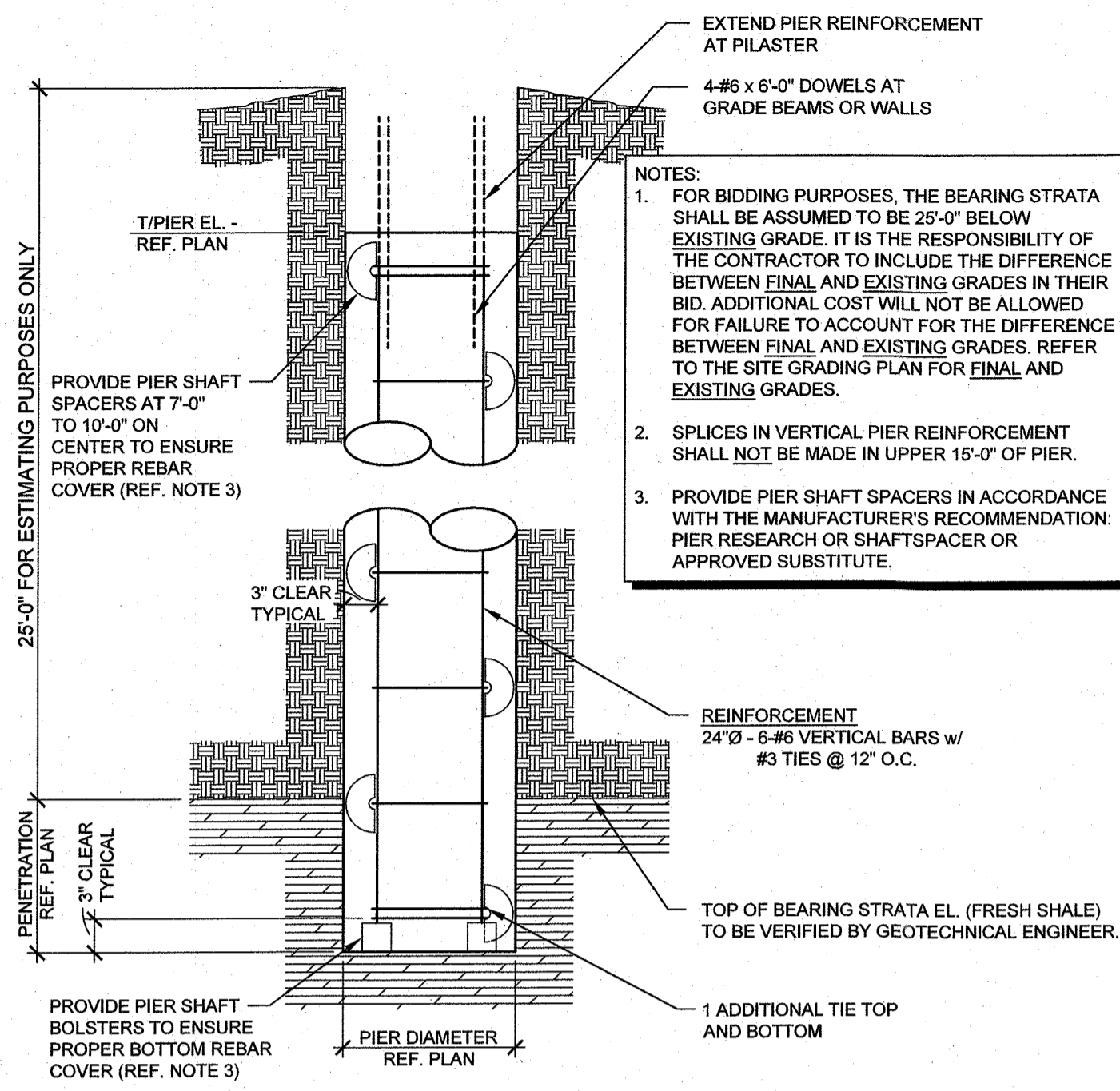
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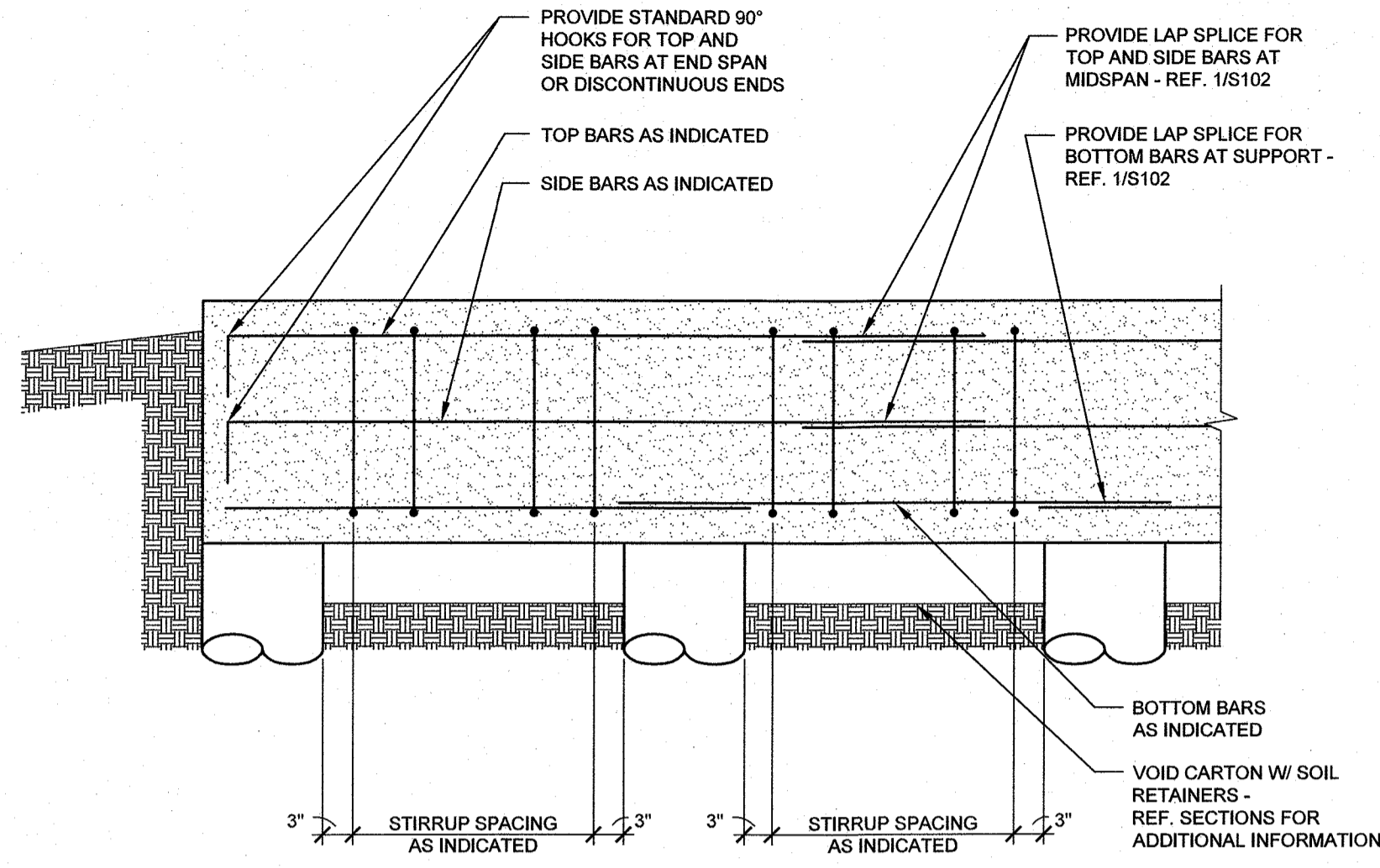
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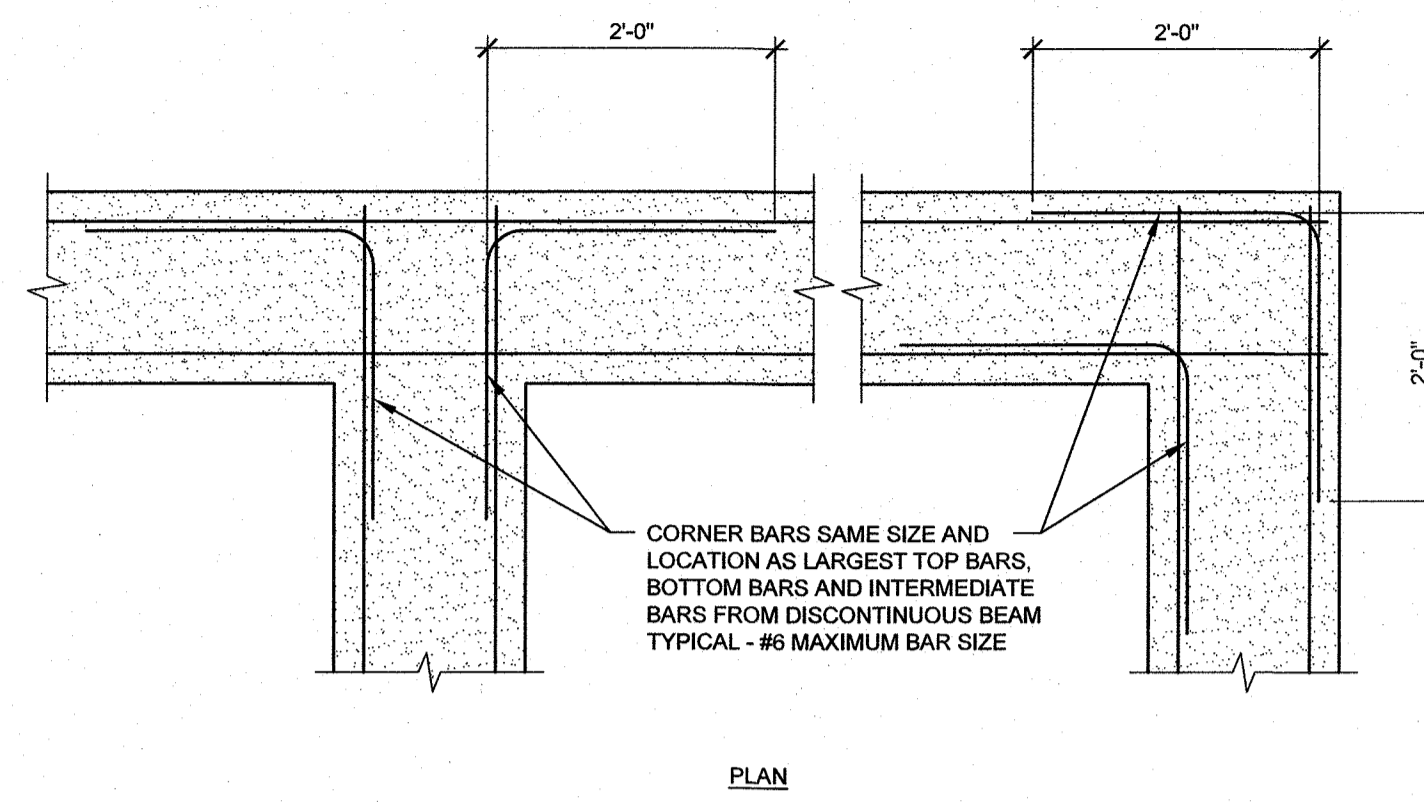
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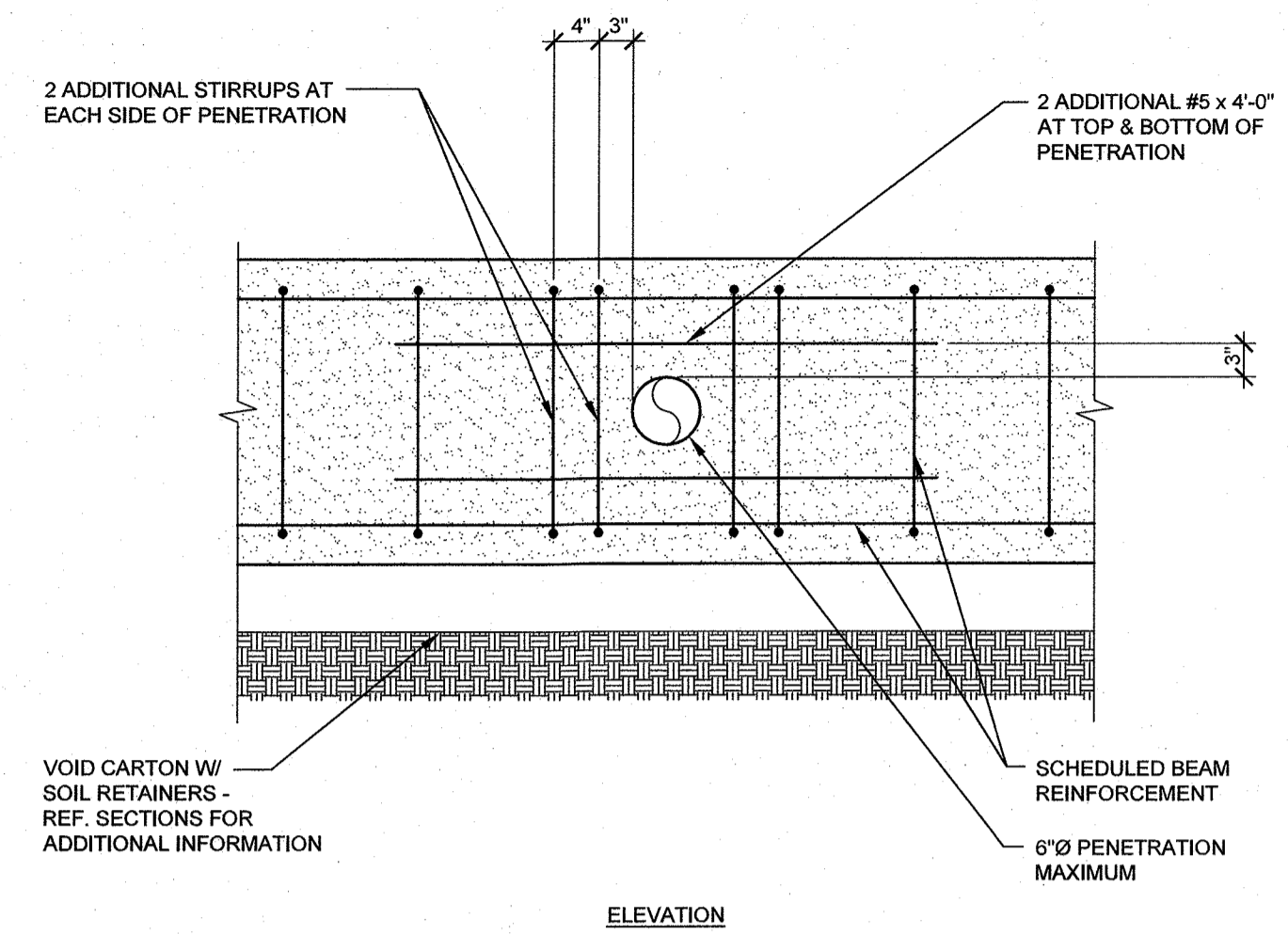
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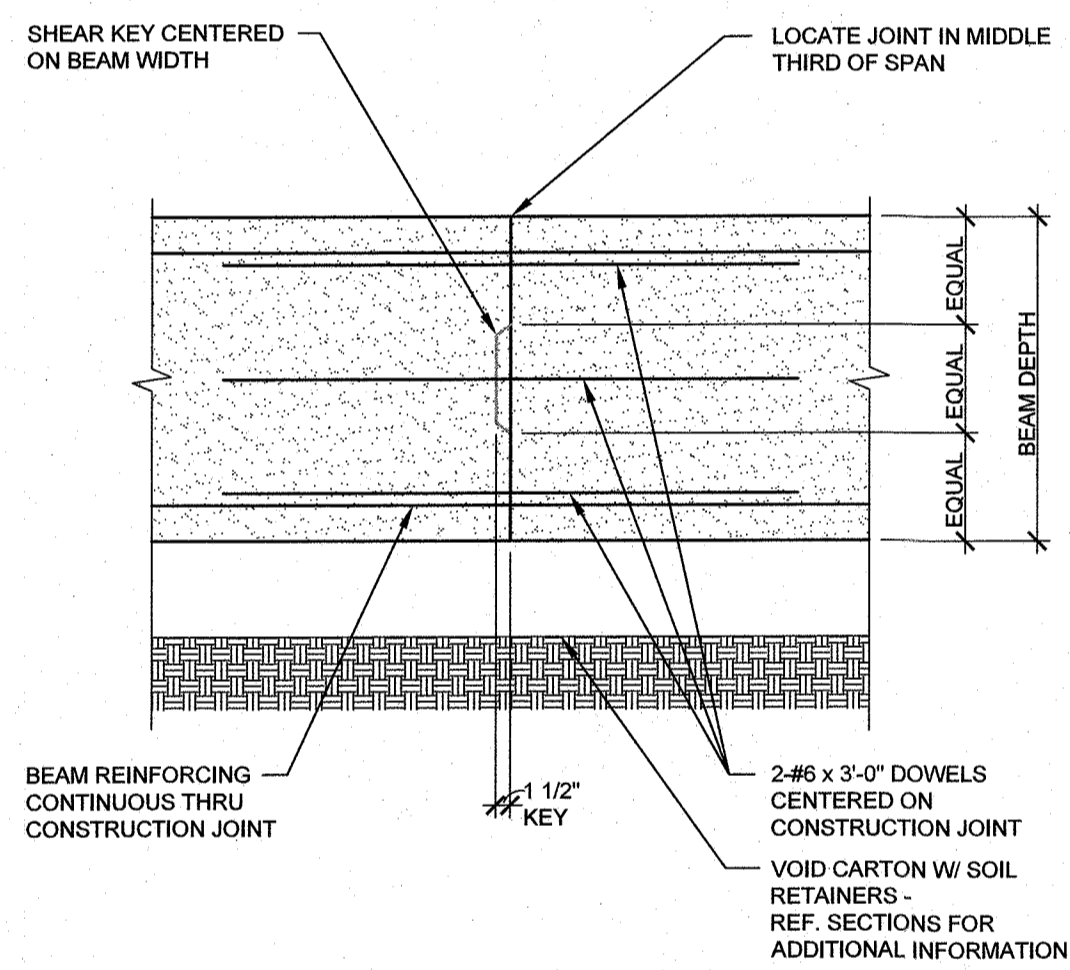
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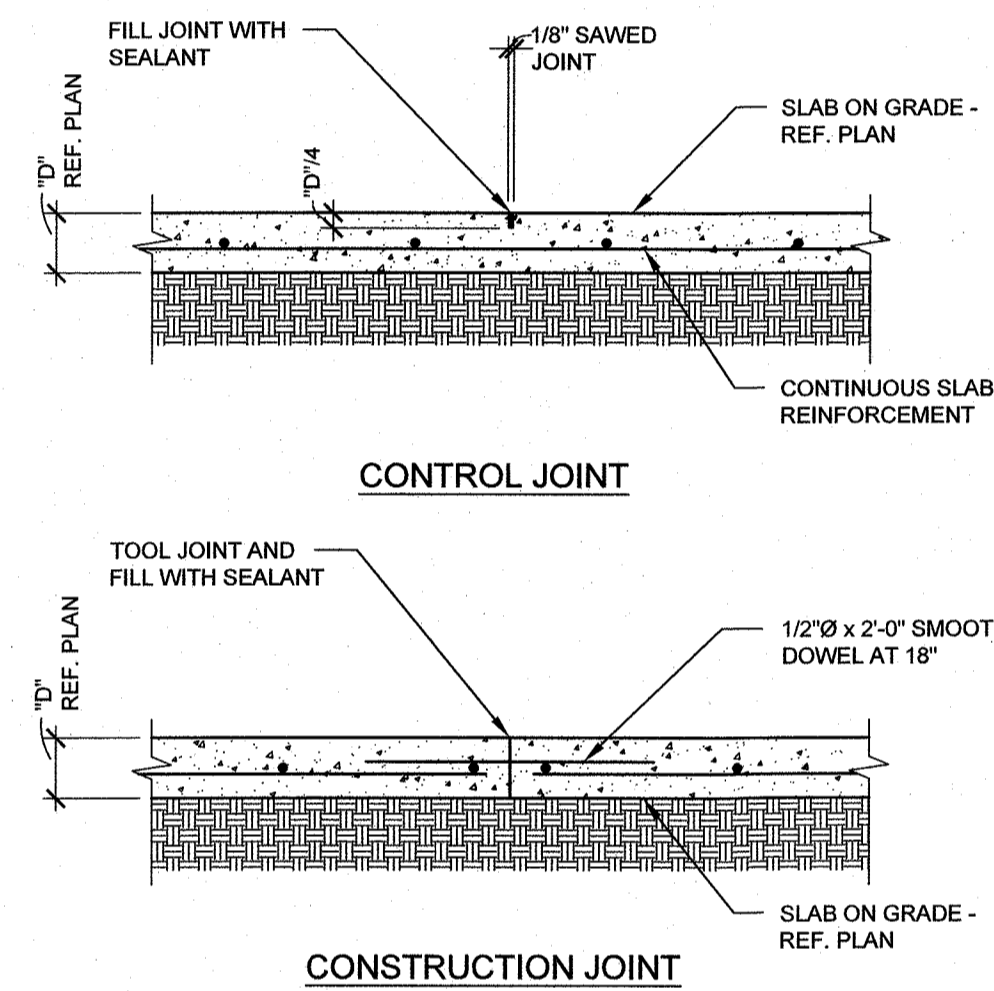
03 TYPICAL CORNER BARS AT CONCRETE WALL, BEAM AND FOOTING INTERSECTION DETAIL
NO SCALE



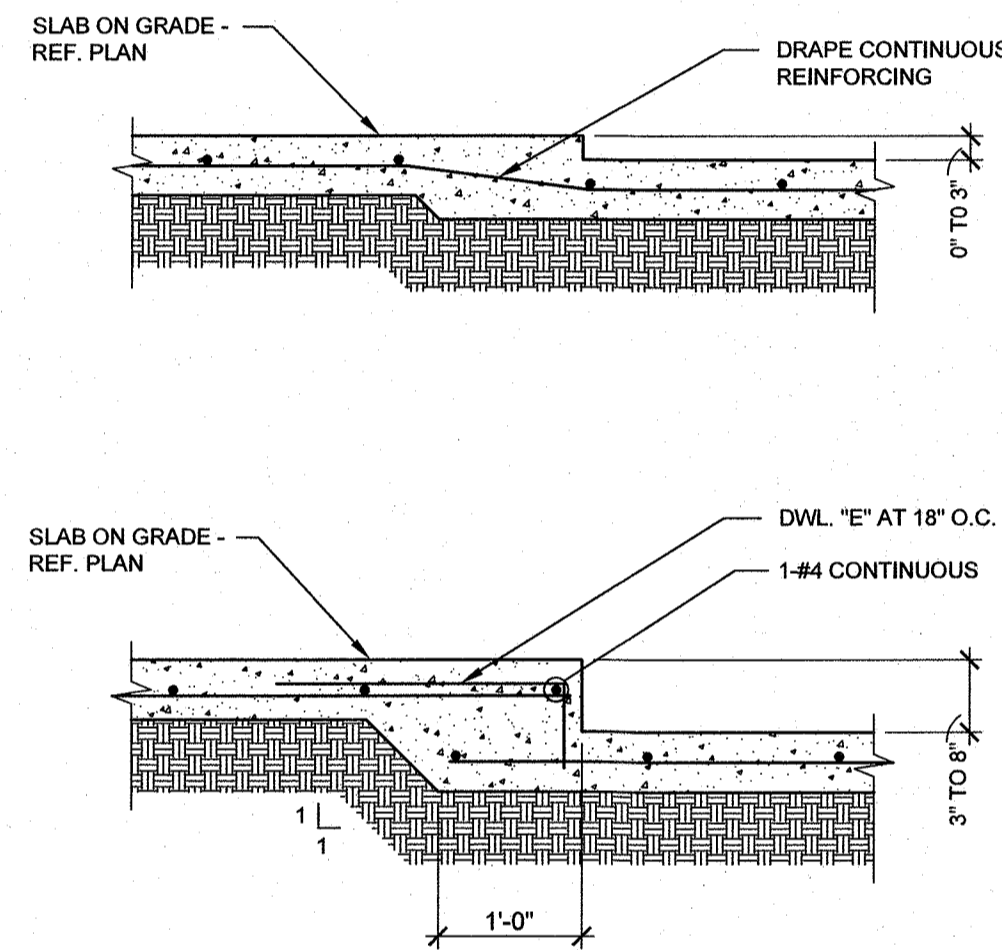
04 TYPICAL GRADE BEAM PENETRATION DETAIL
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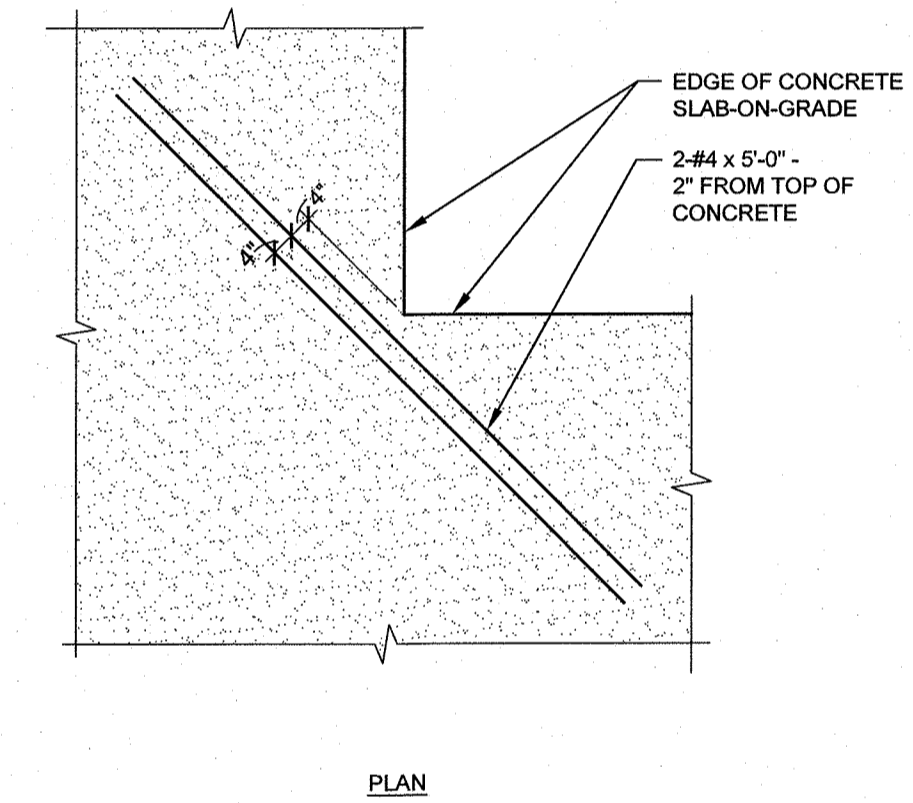
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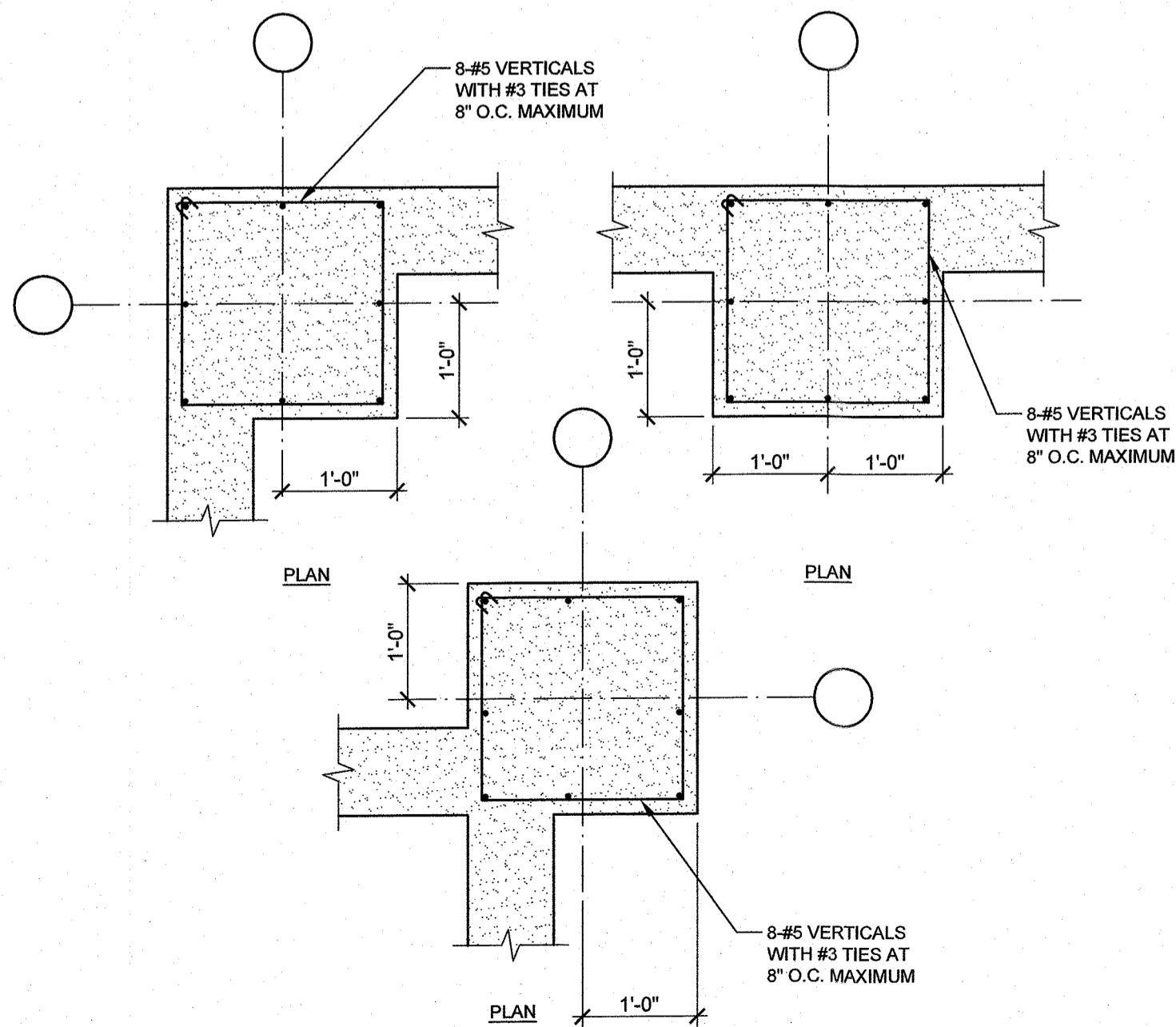
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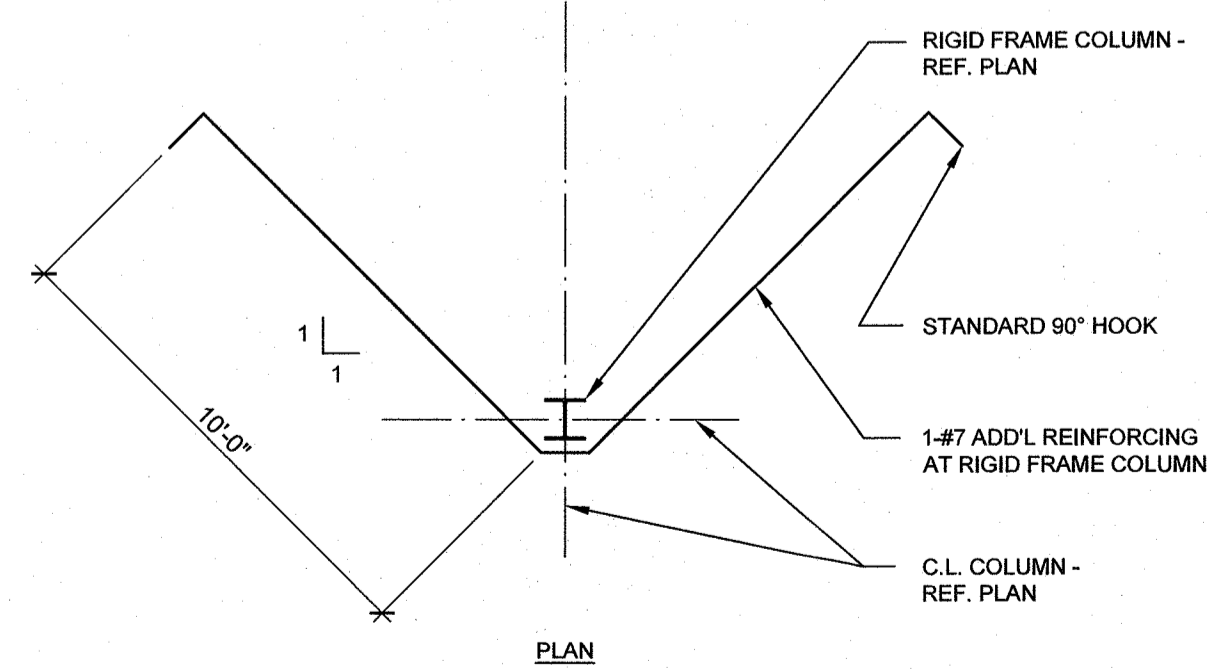
07 TYPICAL DROP IN SLAB-ON-GRADE DETAILS
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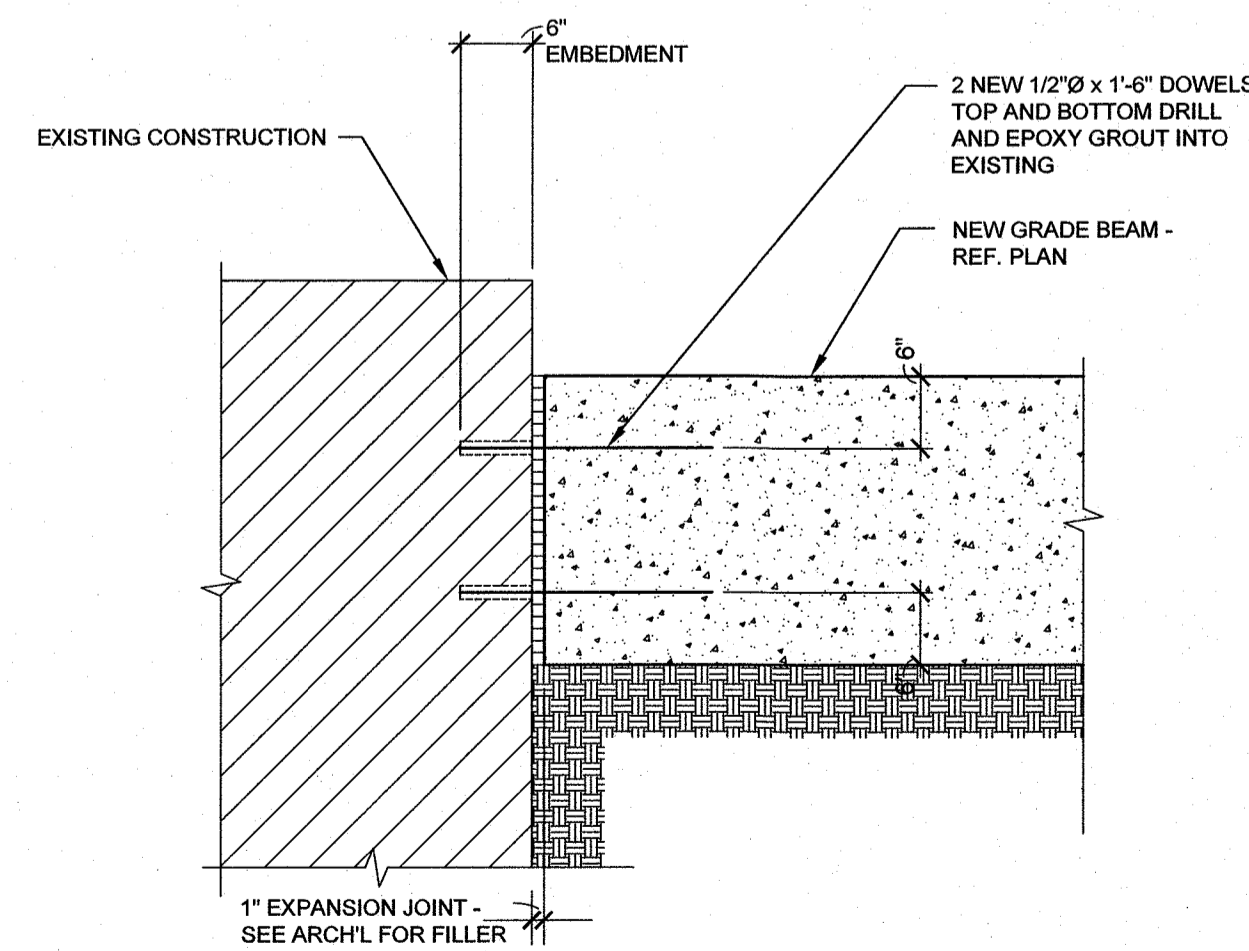
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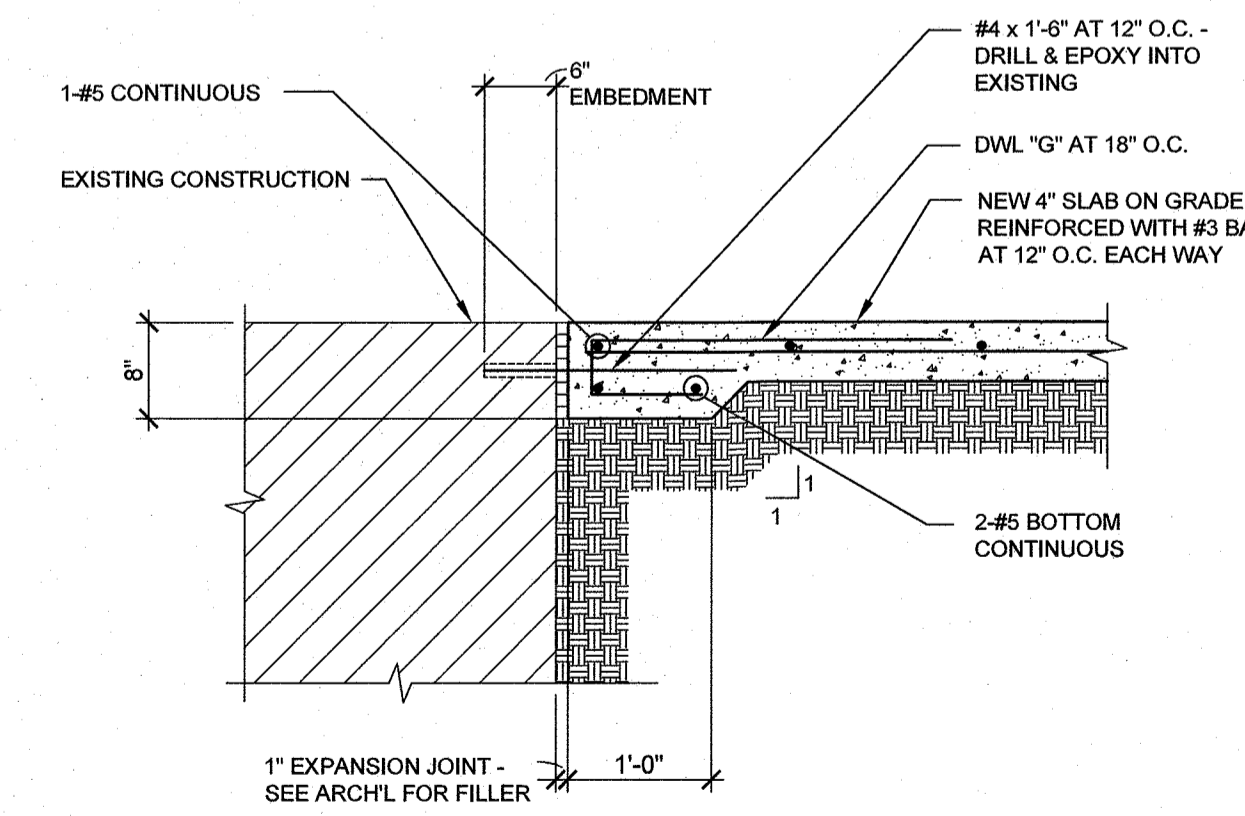
09 TYPICAL PILASTER DETAIL
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10 TYPICAL ADDITIONAL REINFORCEMENT DETAIL
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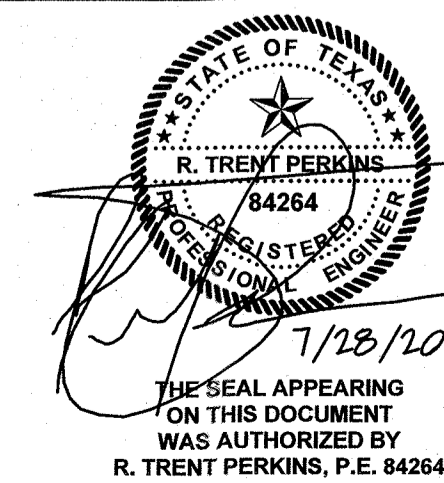
11 DETAIL
NO SCALE



12 SECTION
NO SCALE

NOTE:
1. PLACE ADDL STEEL AT MID-DEPTH OF FLOOR SLAB.

NOTE:
DETAIL IS ONLY FOR DOWEL PLACEMENT. REFER PLANS AND SECTIONS FOR ADDITIONAL INFORMATION.



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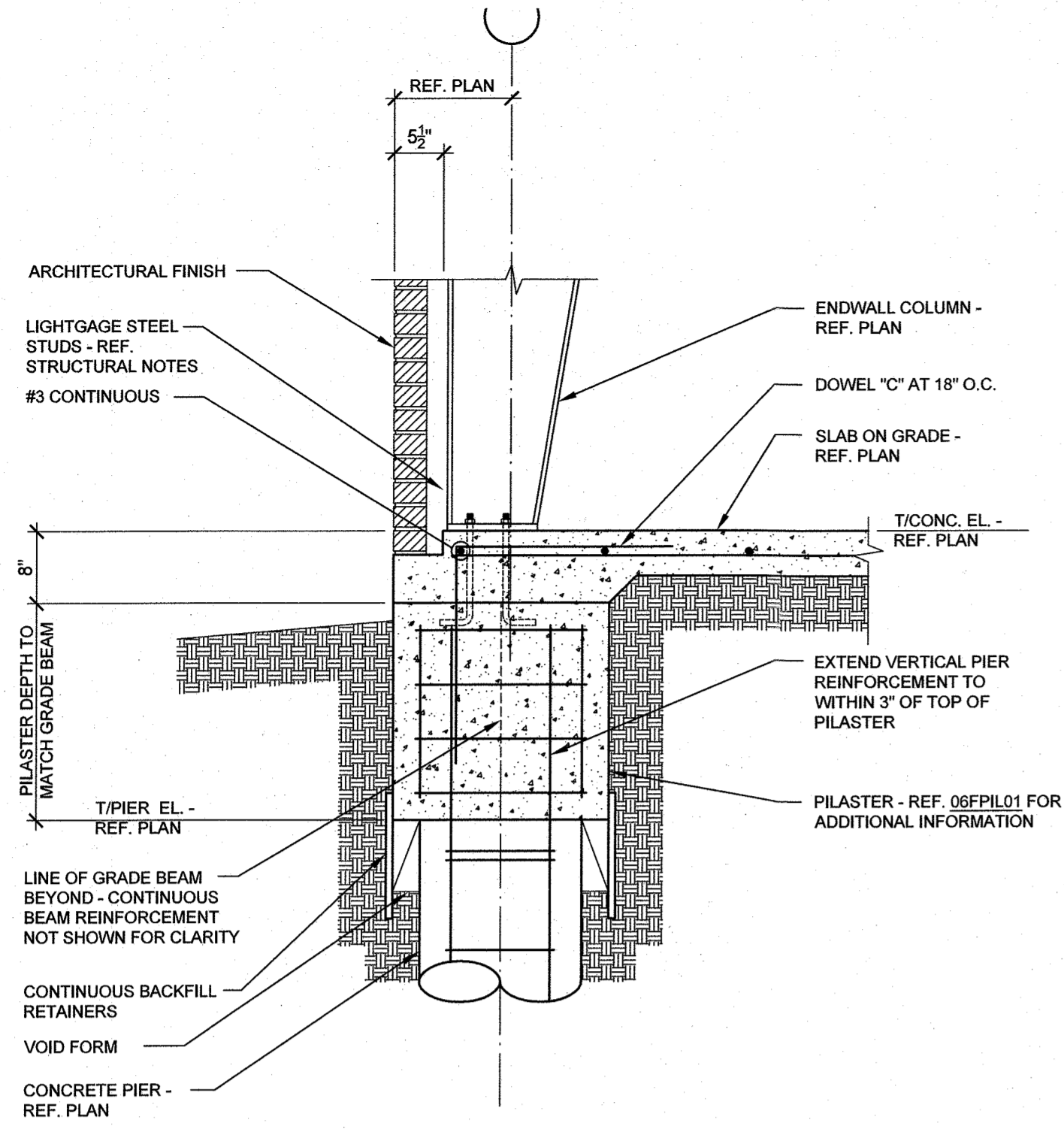
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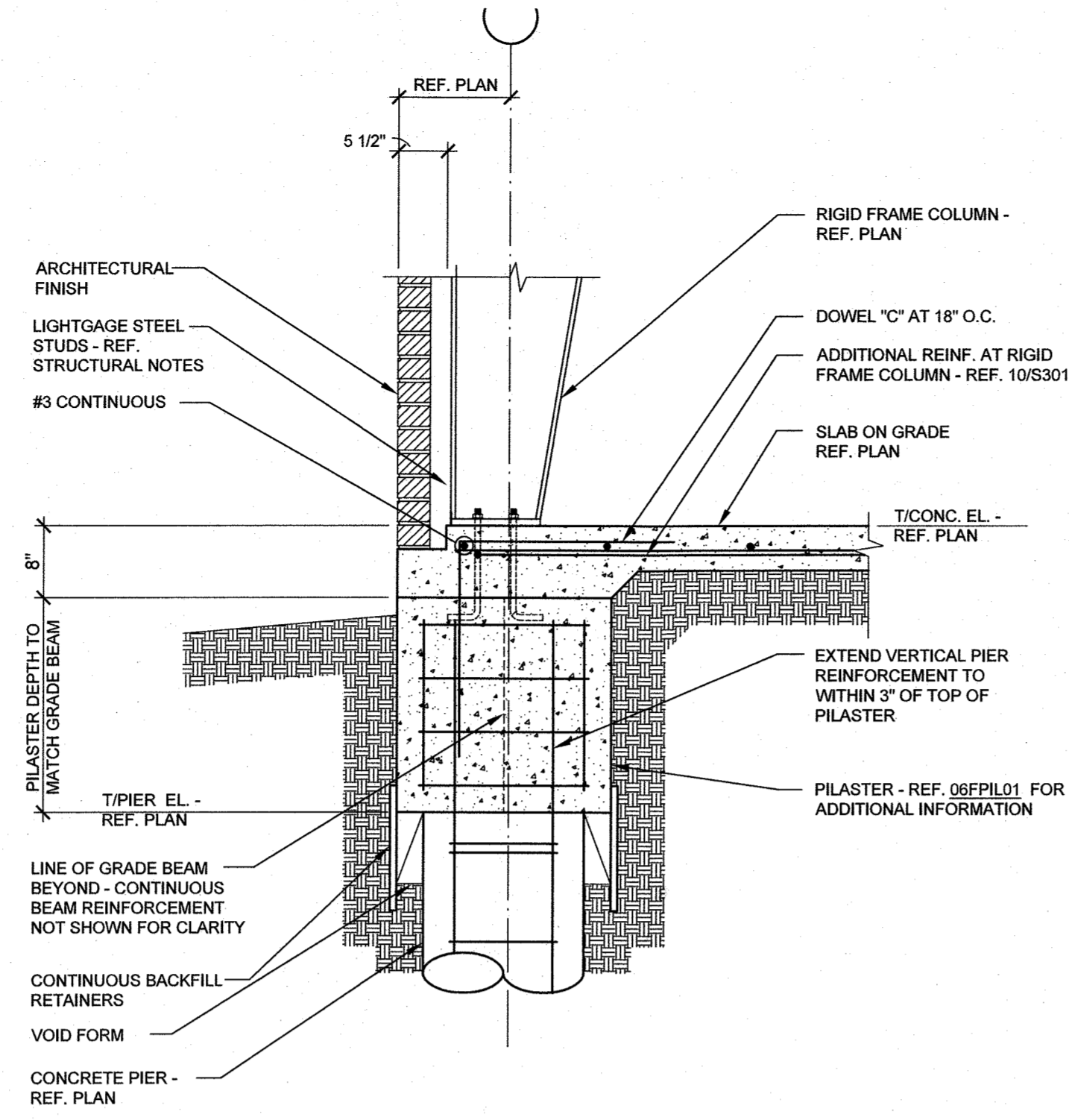
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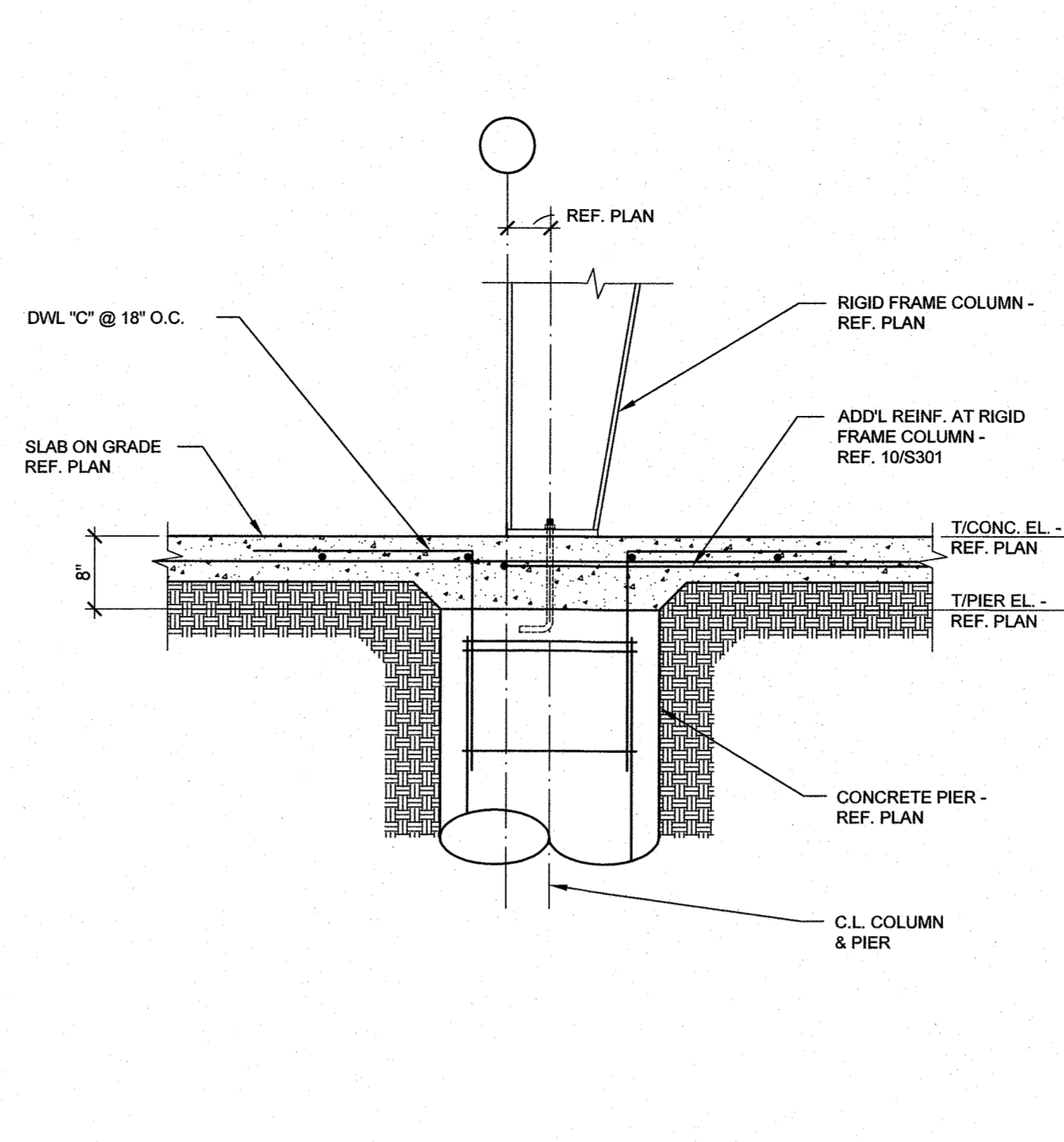
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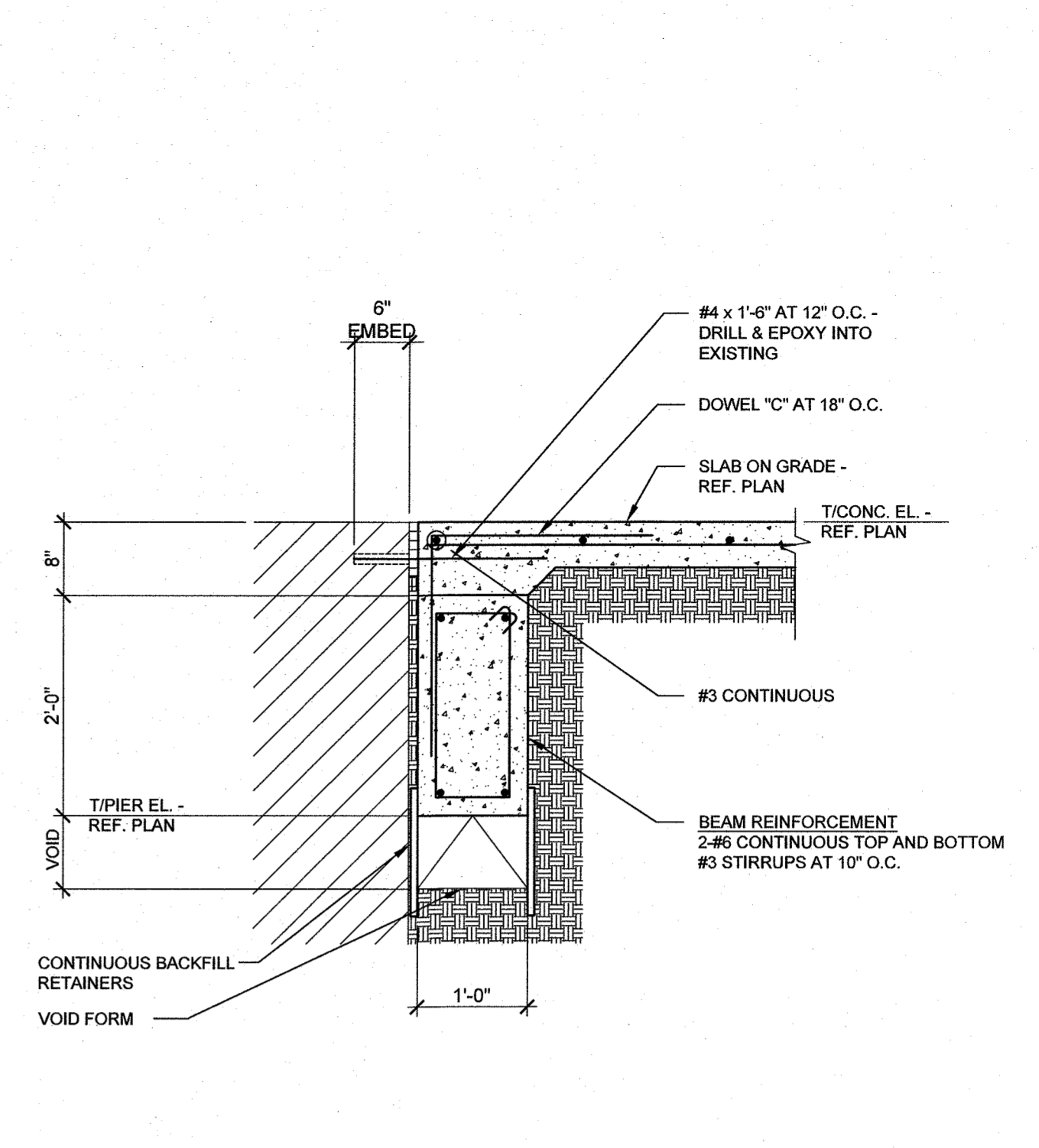
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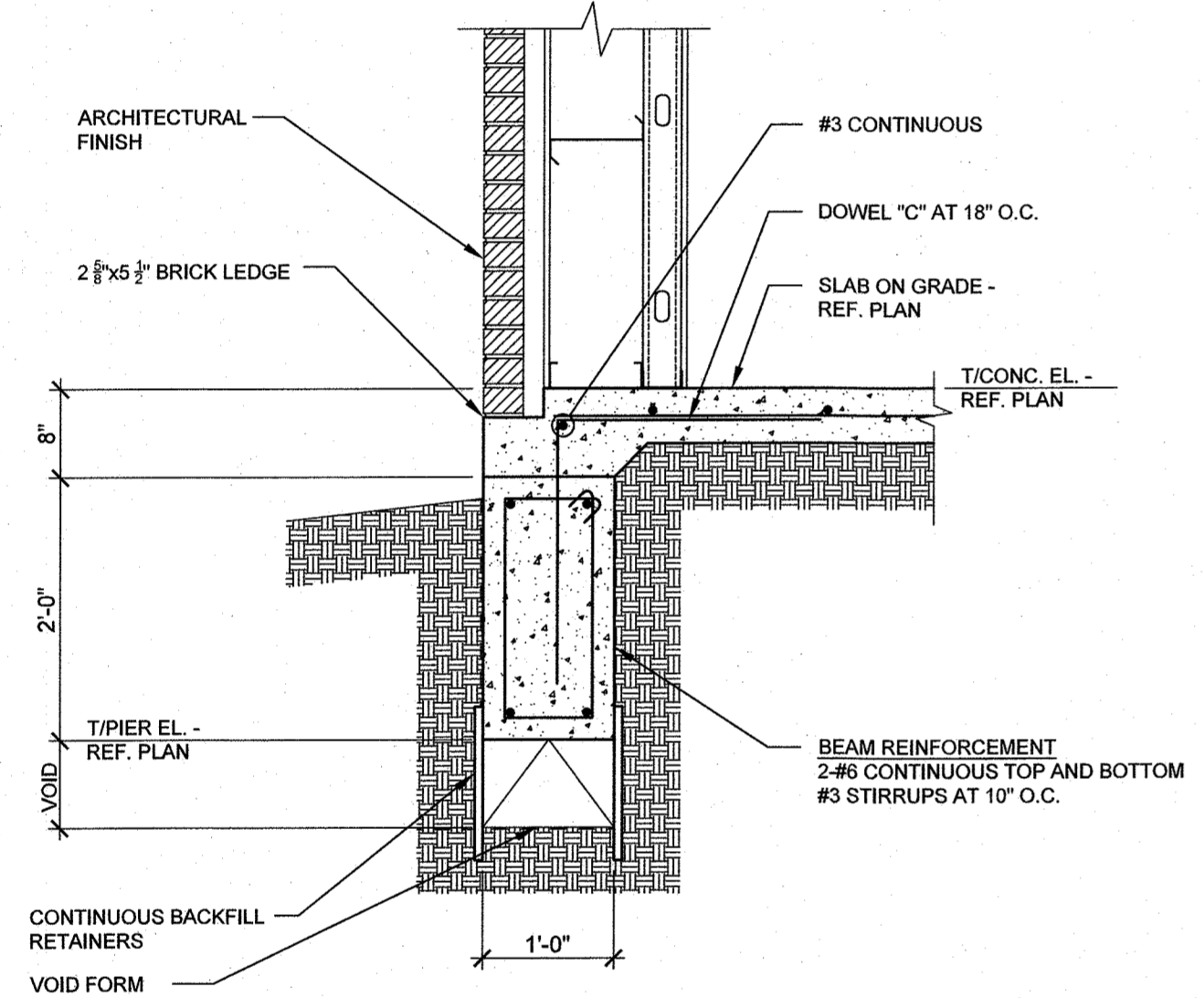
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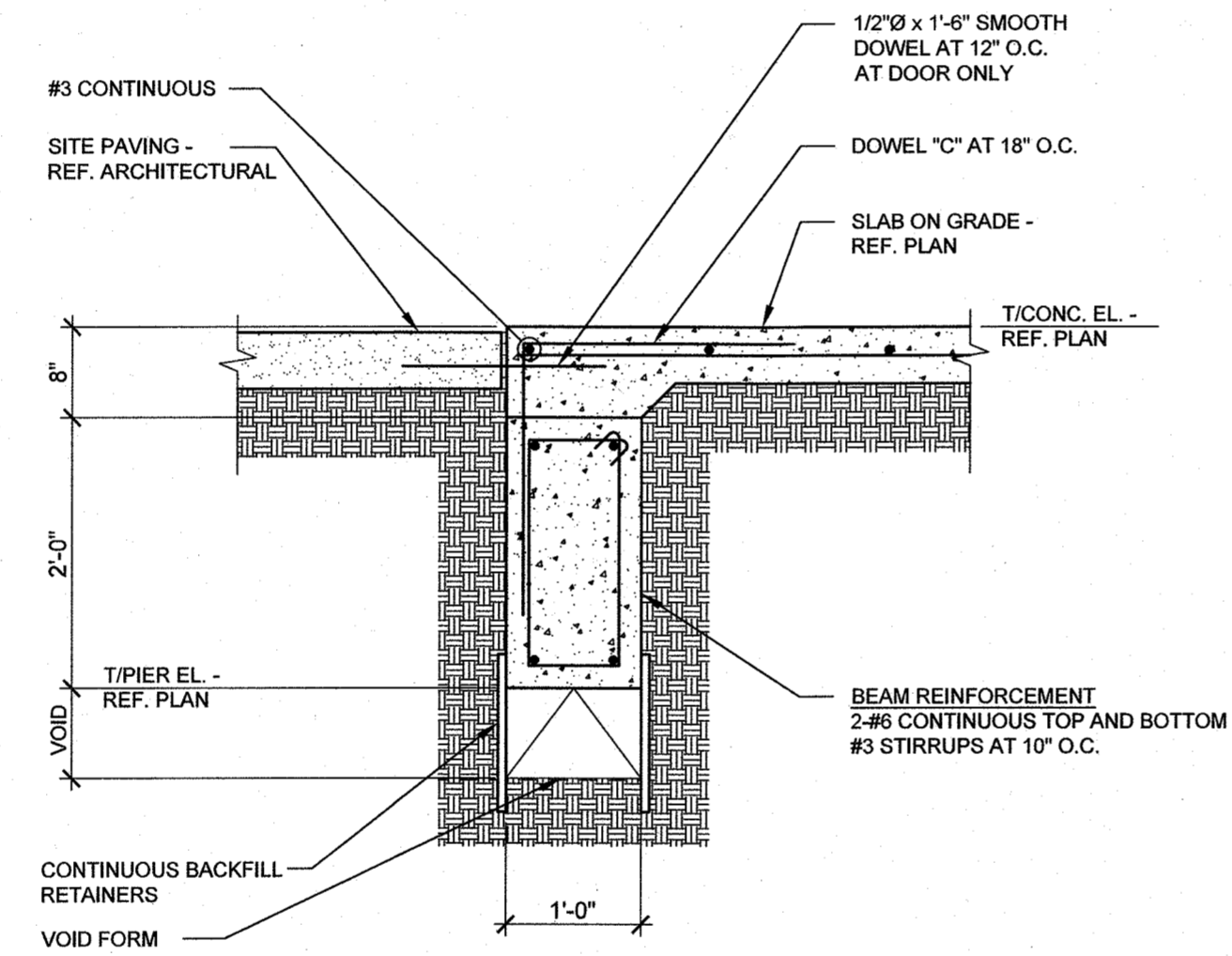
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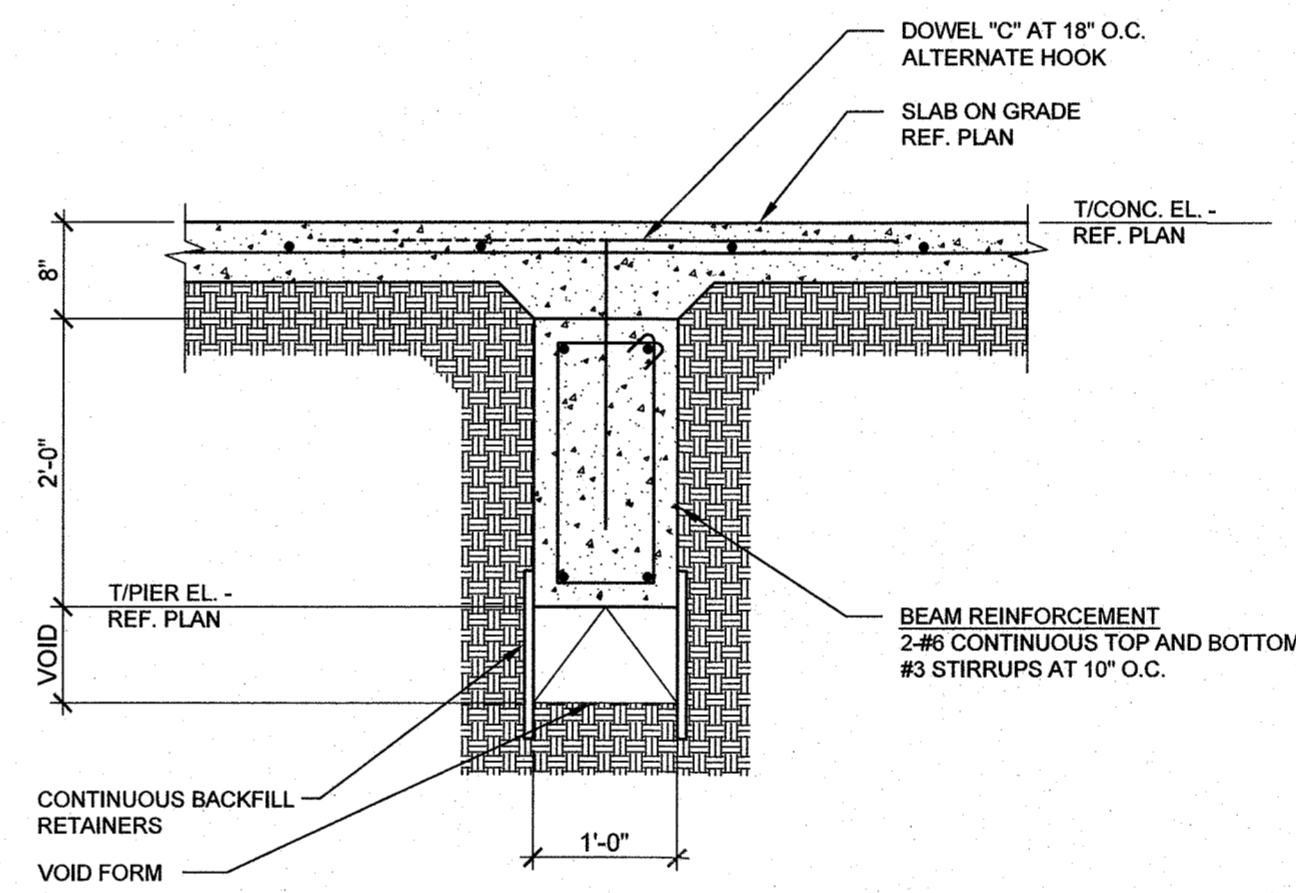
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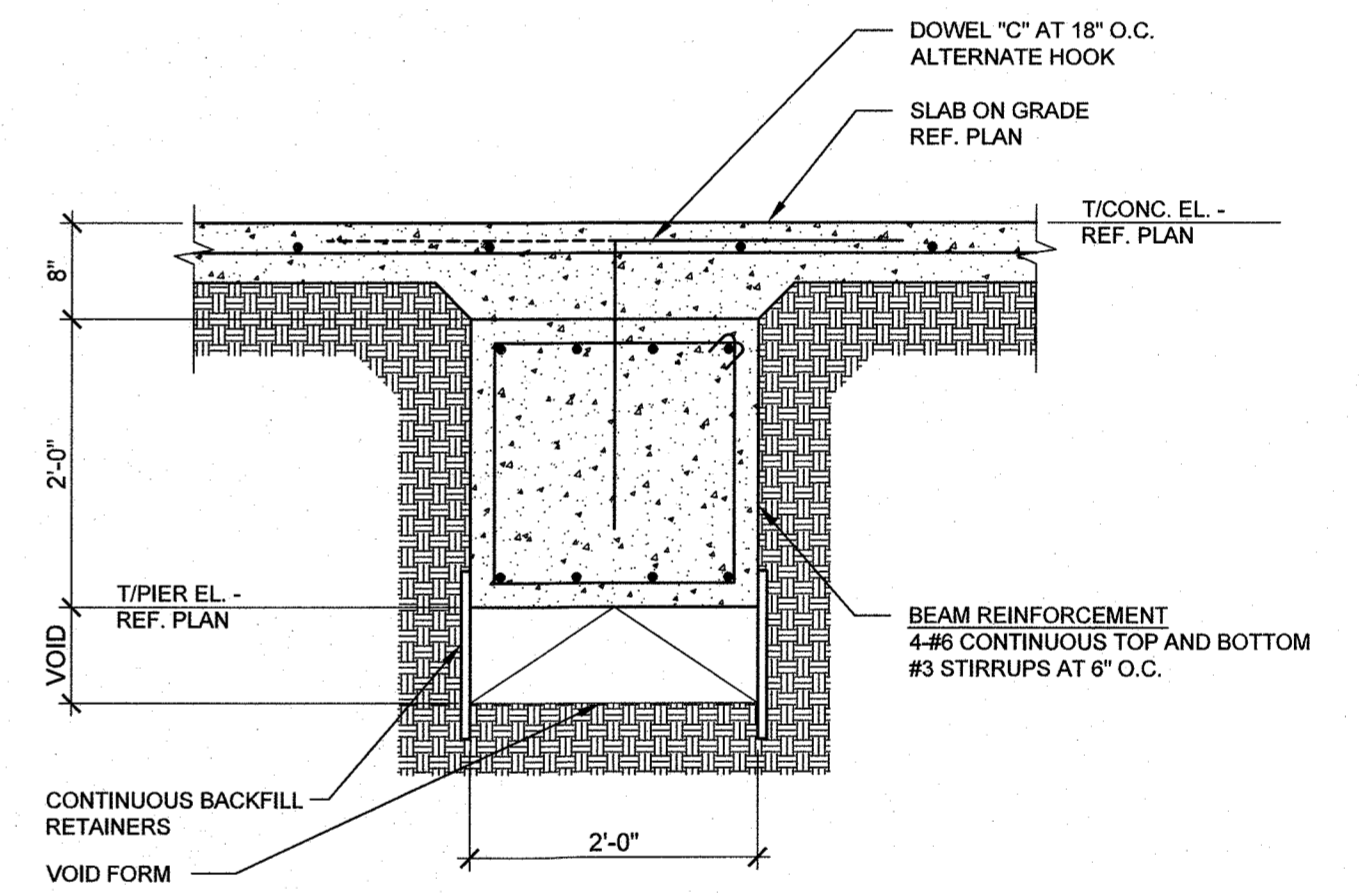
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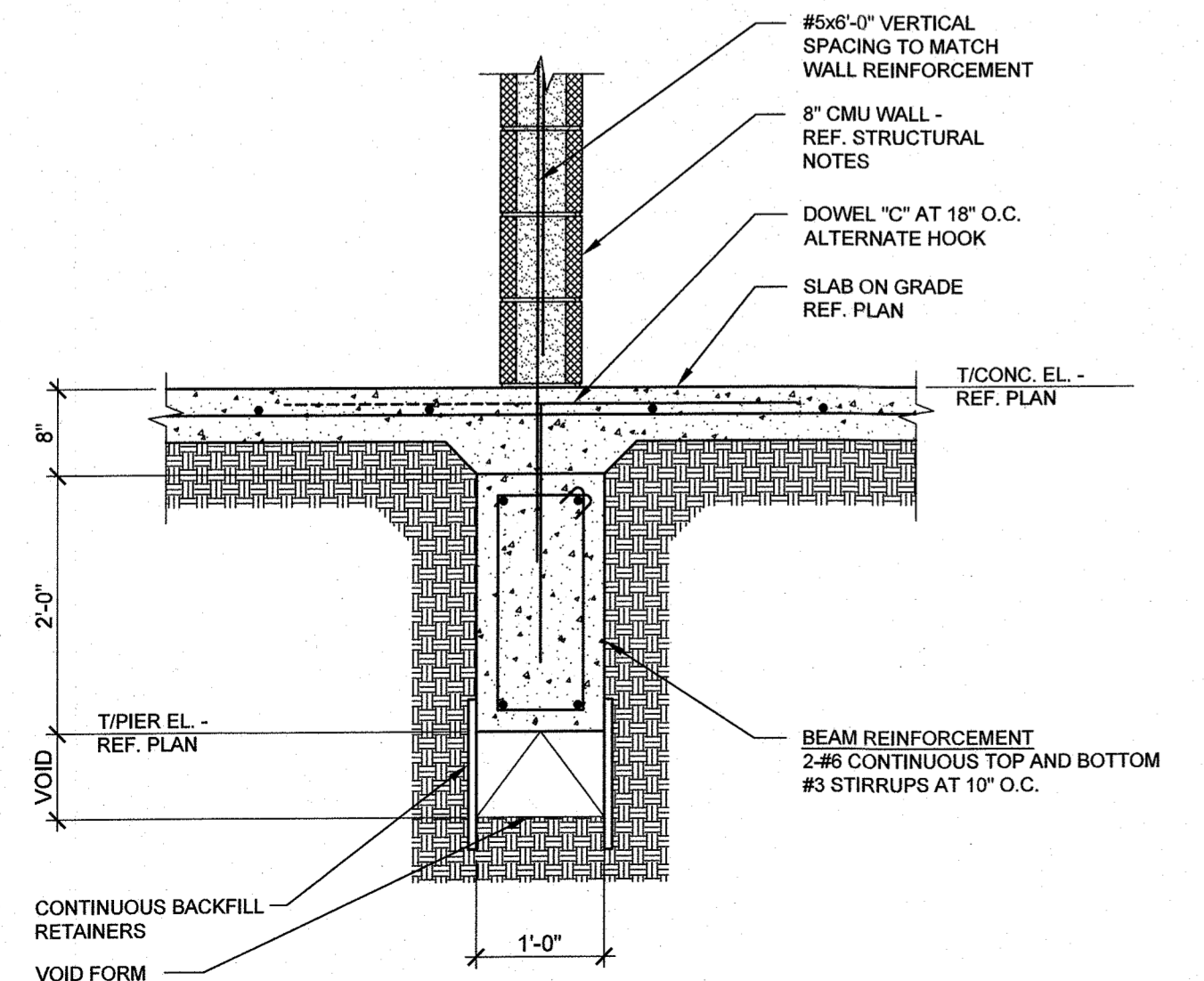
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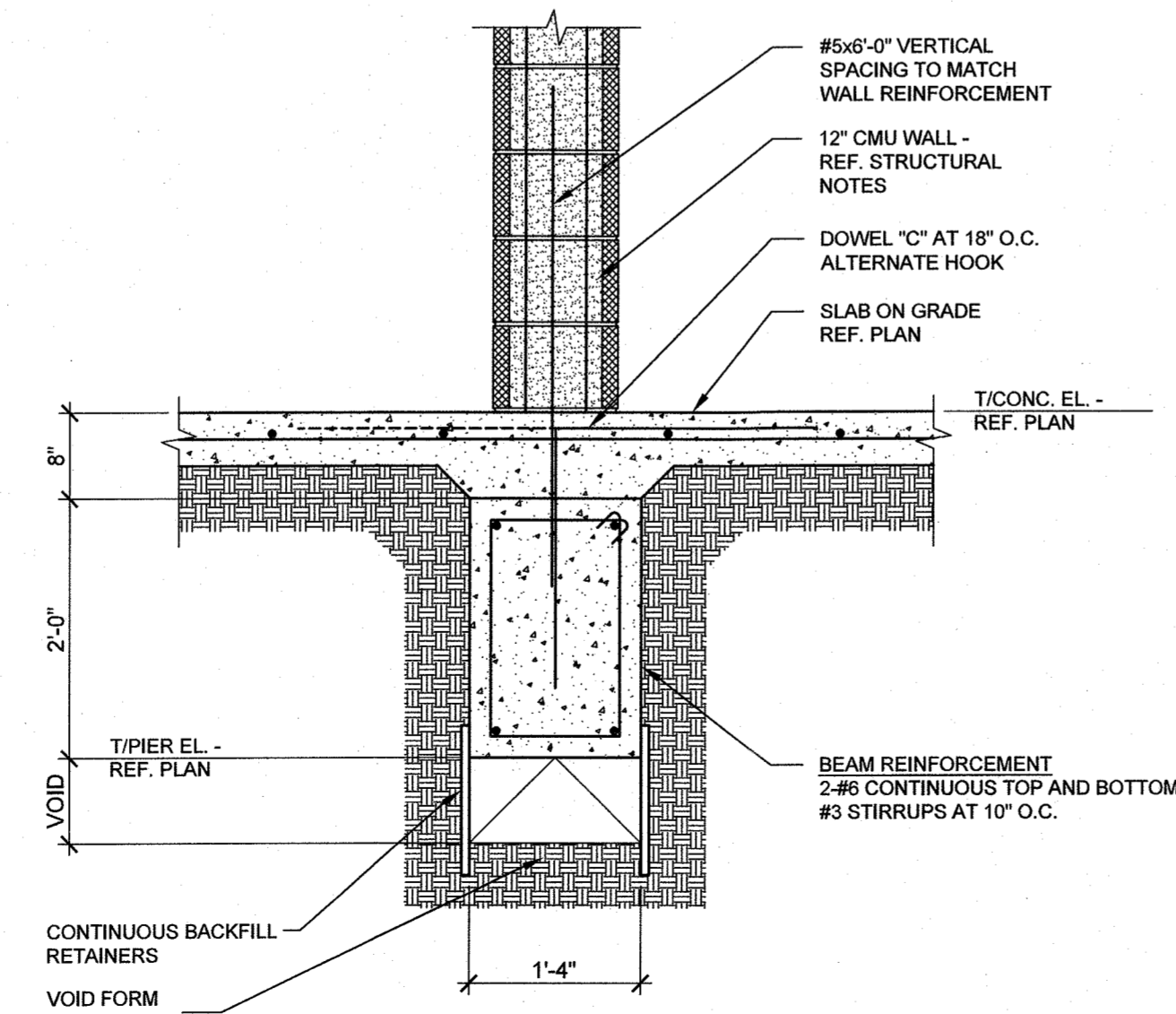
07 TYPICAL FOUNDATION DETAIL
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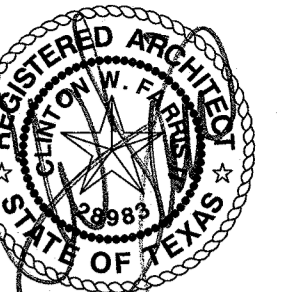
08 TYPICAL FOUNDATION DETAIL
NO SCALE



09 TYPICAL FOUNDATION DETAIL
NO SCALE



10 TYPICAL FOUNDATION DETAIL
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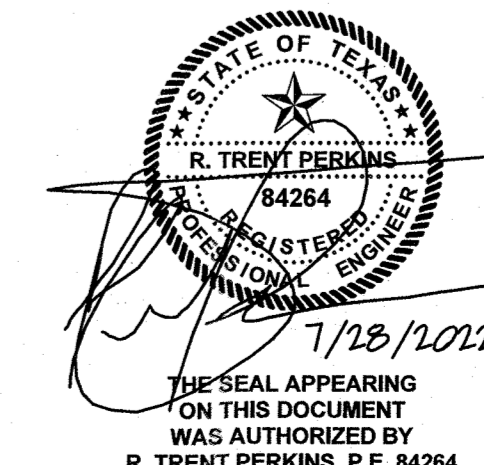
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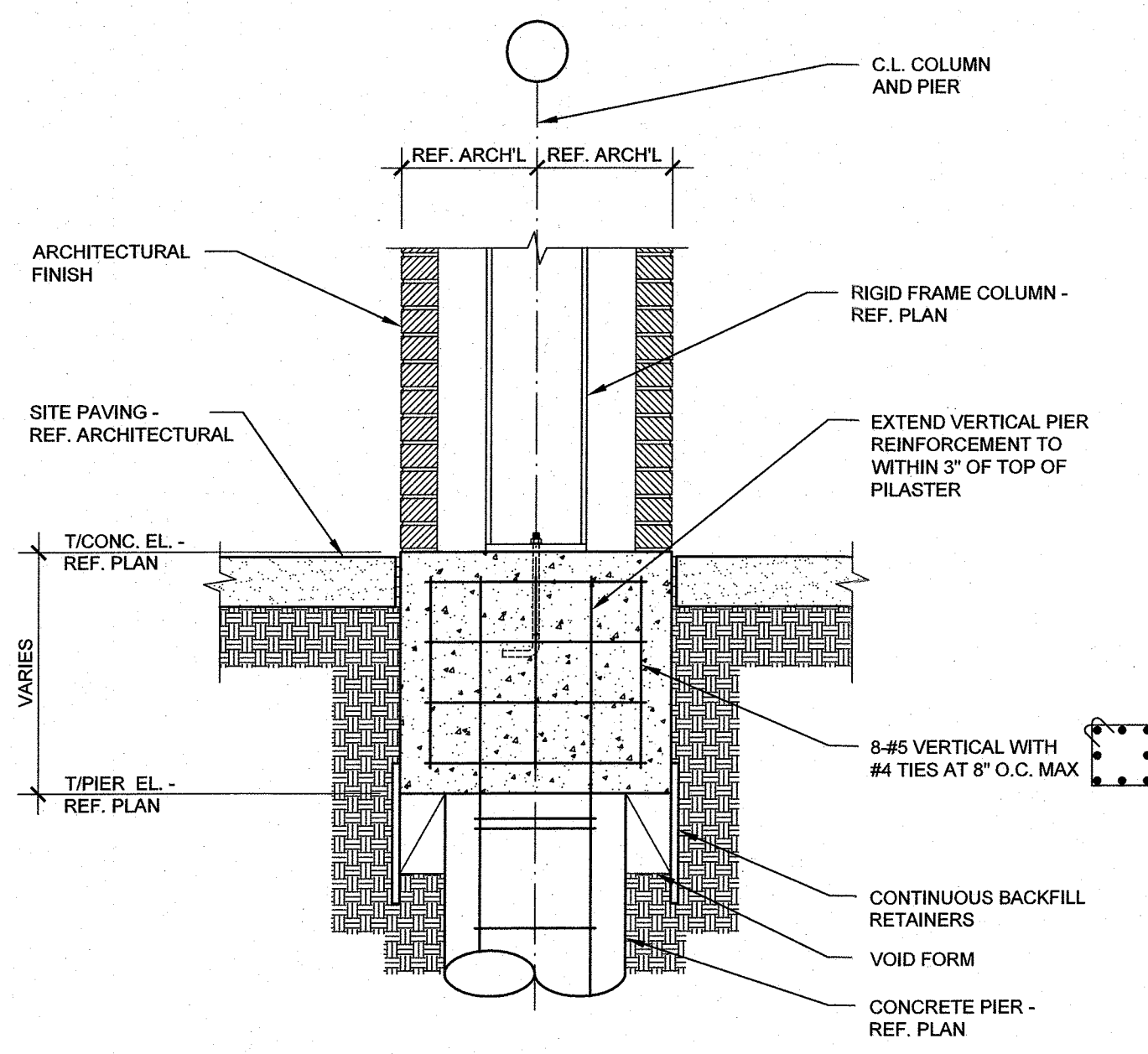
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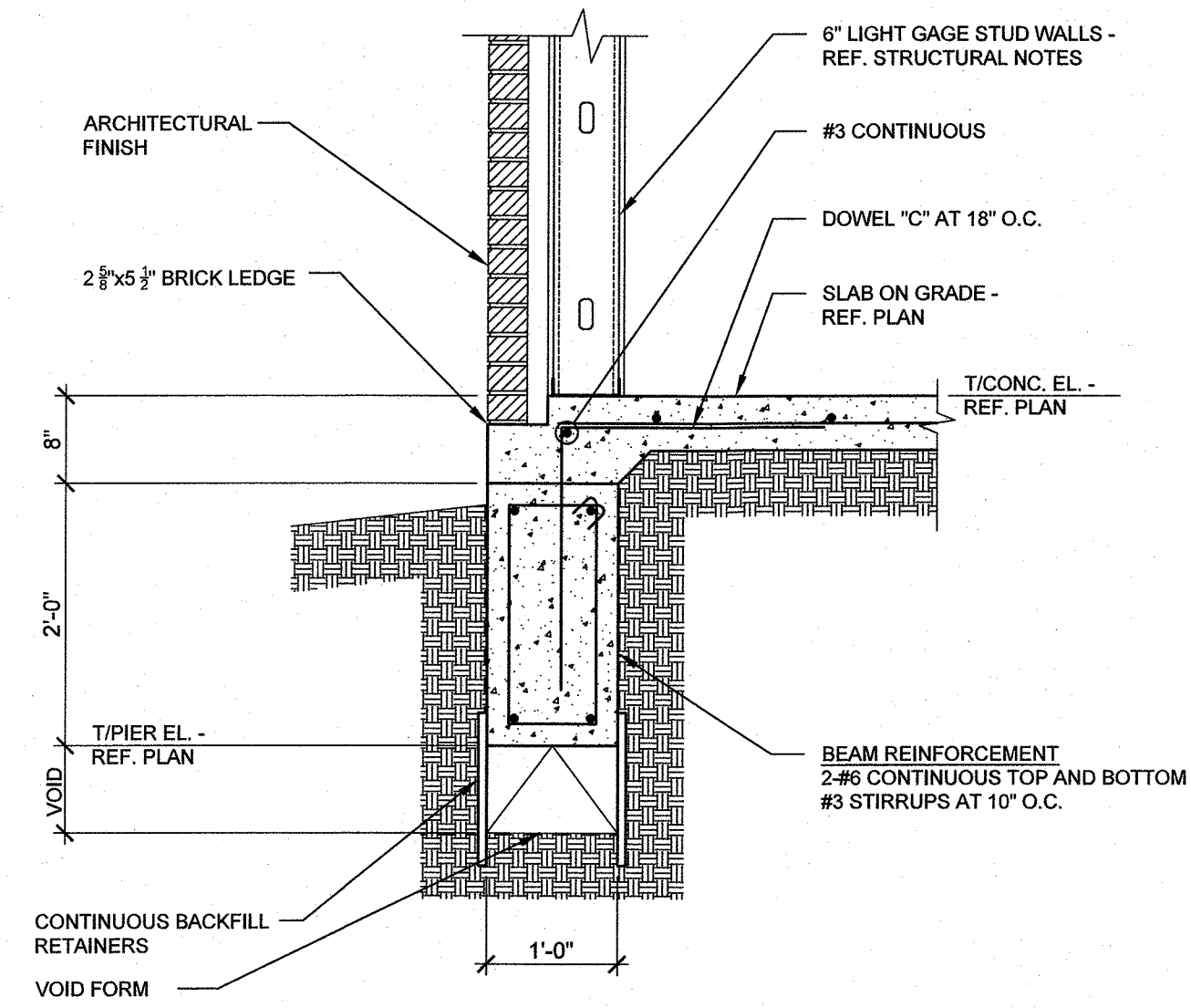
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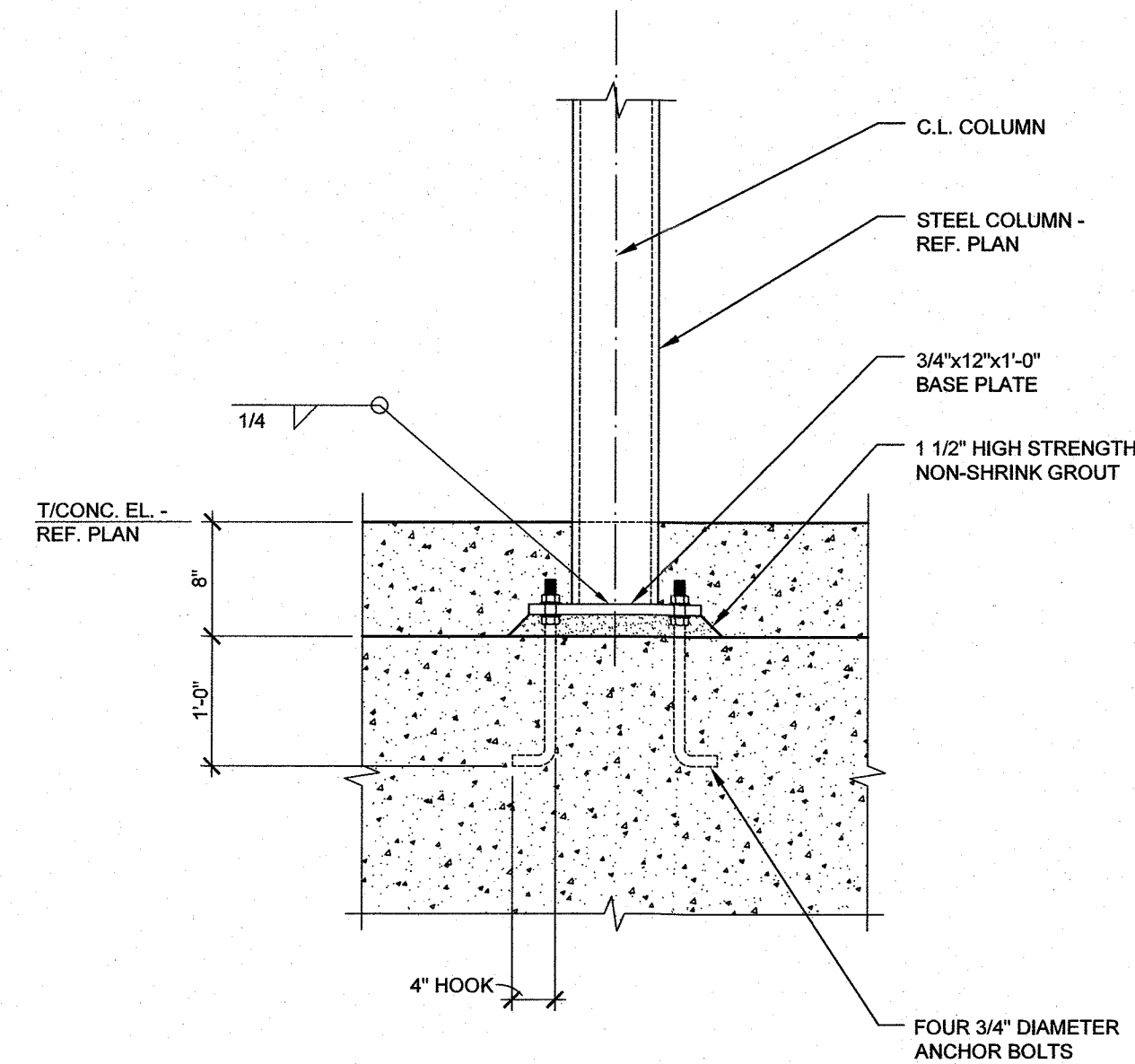
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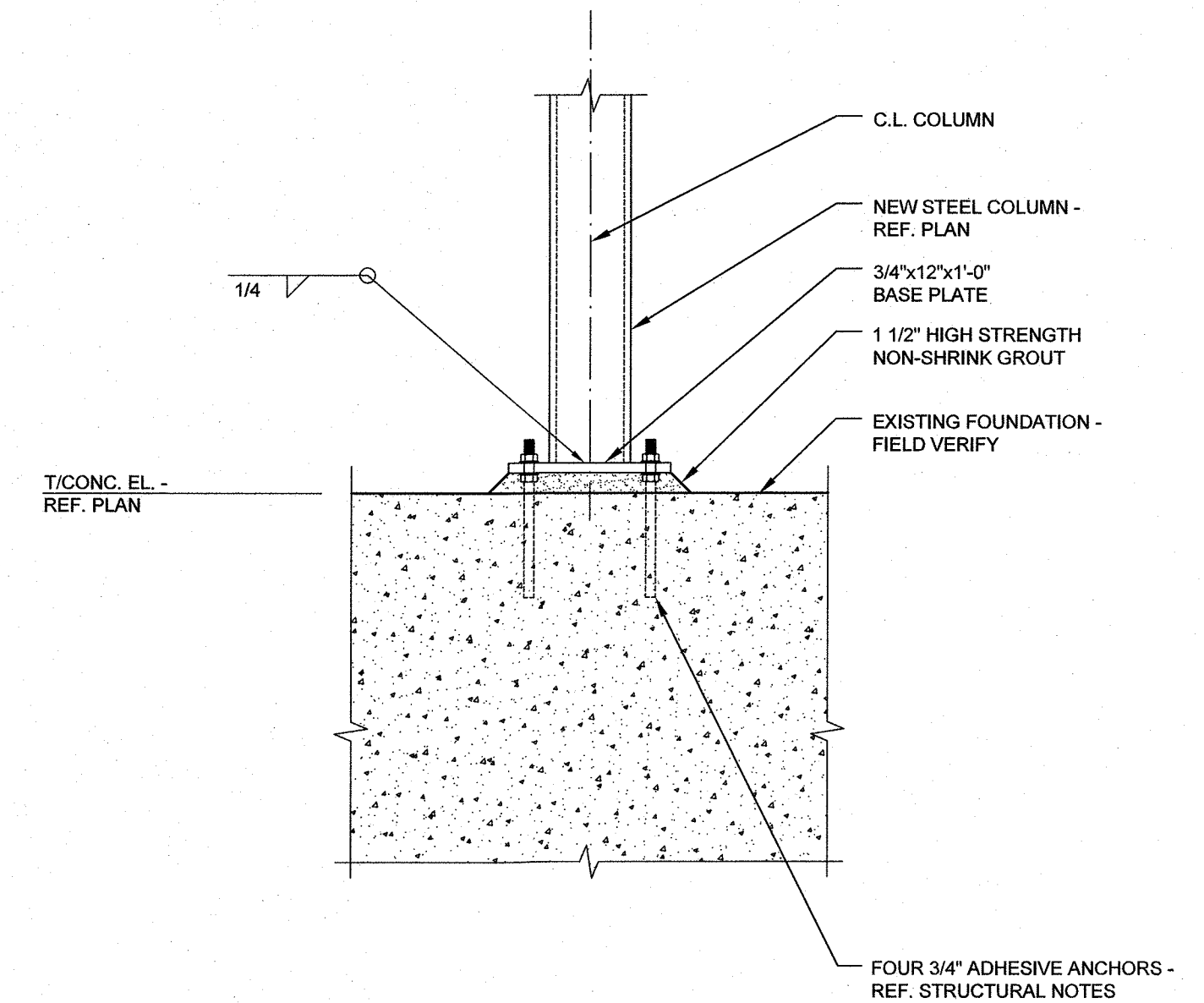
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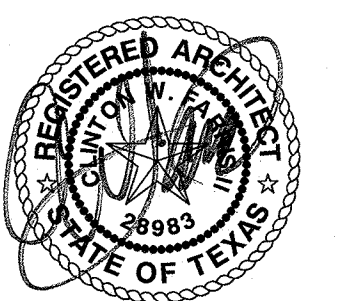
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03 TYPICAL FOUNDATION DETAIL
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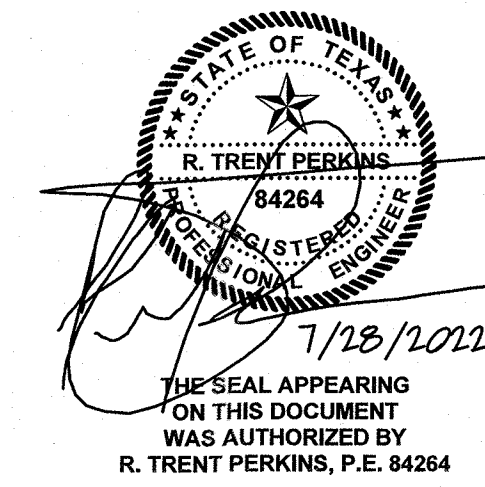
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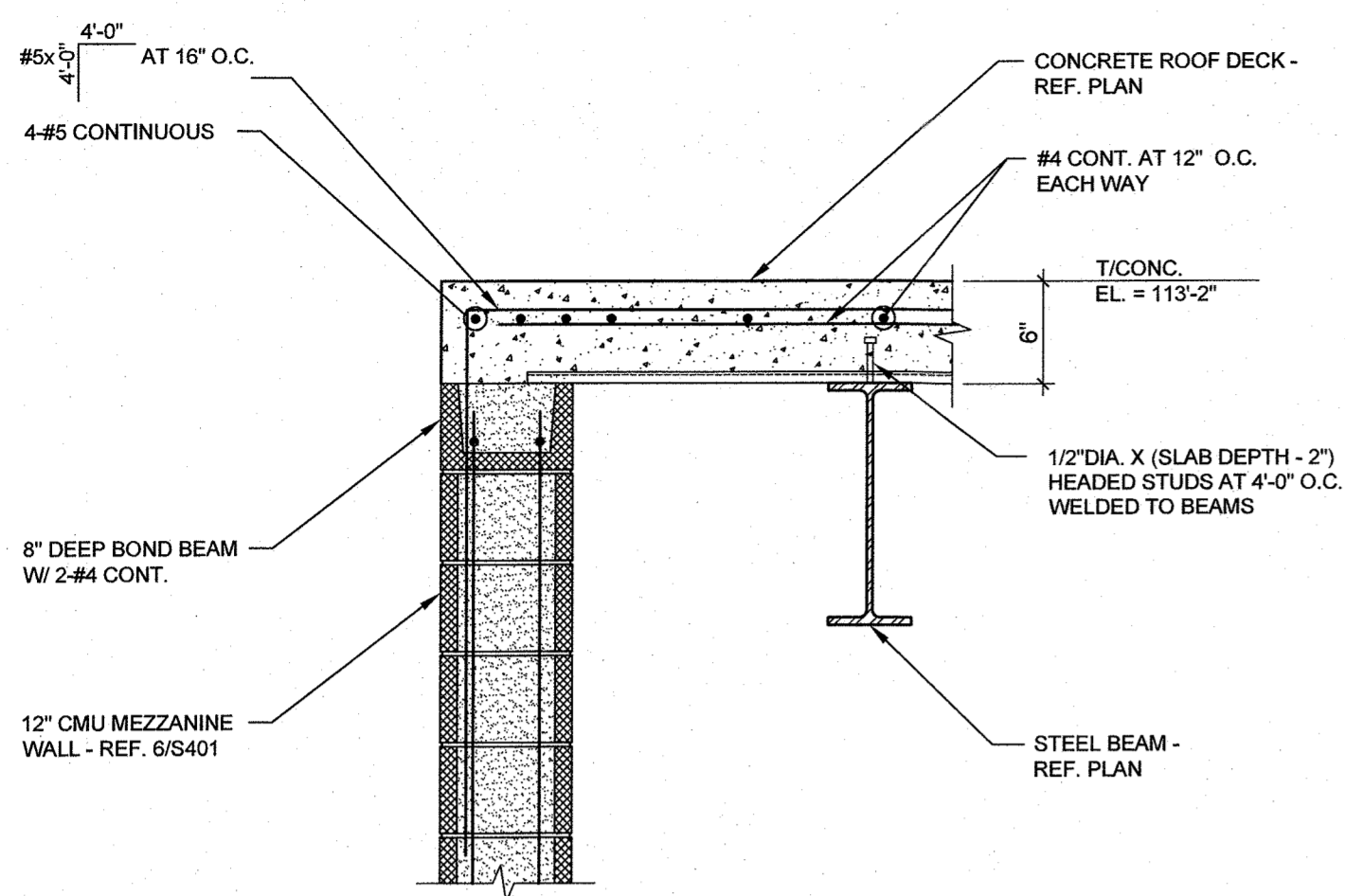
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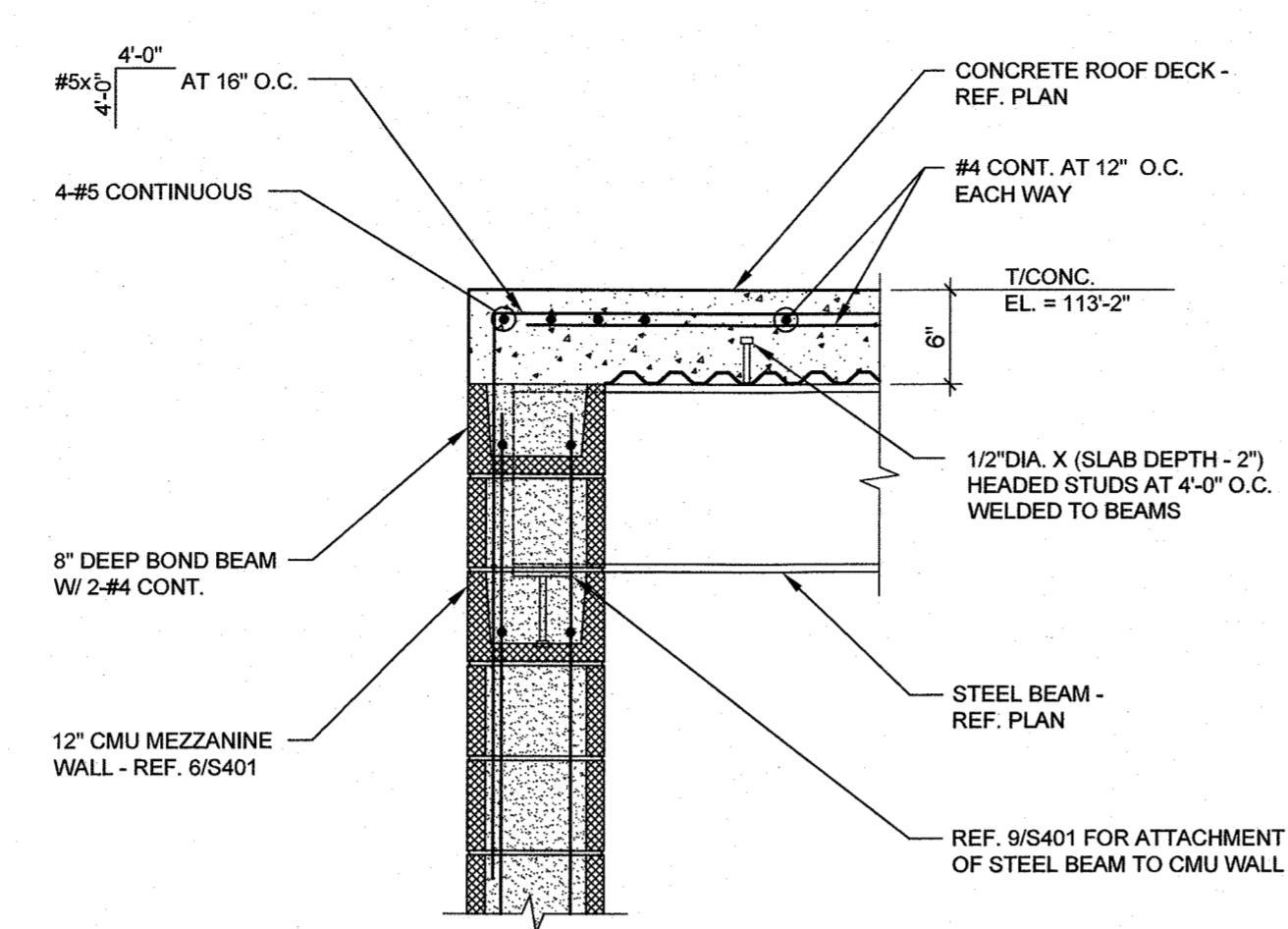


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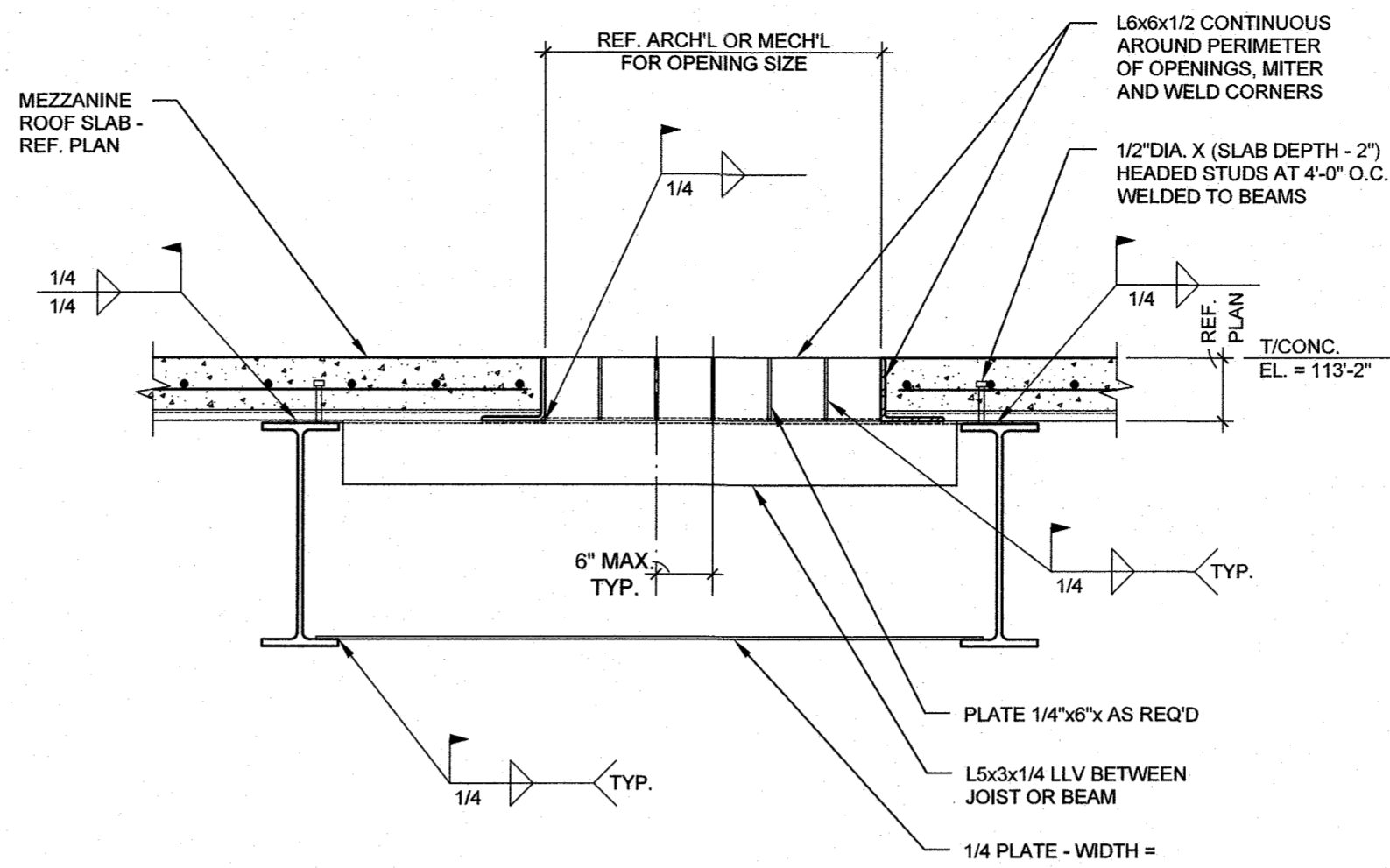
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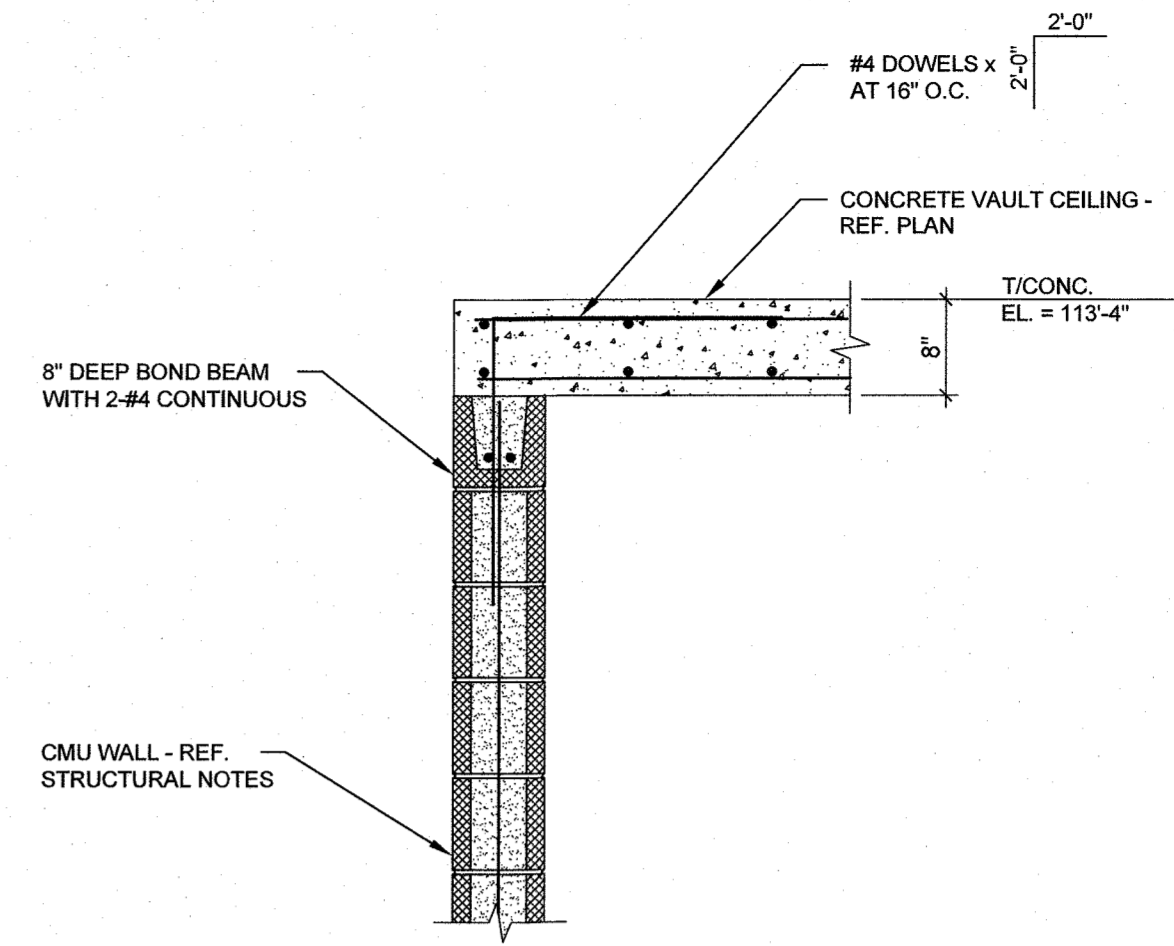
01 SECTION AT MEZZANINE
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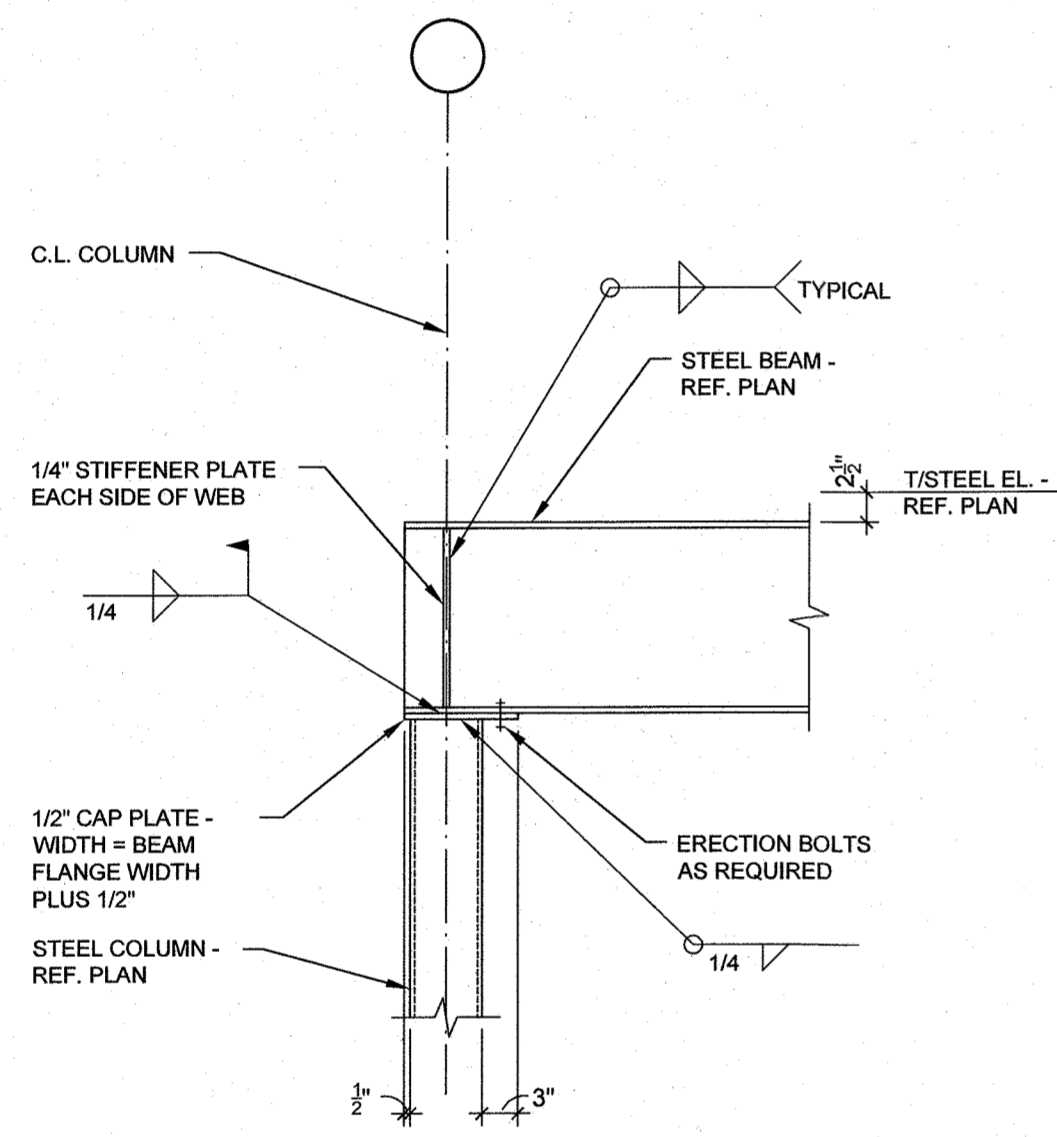
02 SECTION AT MEZZANINE
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03 TYPICAL MEZZANINE ROOF OPENING DETAIL
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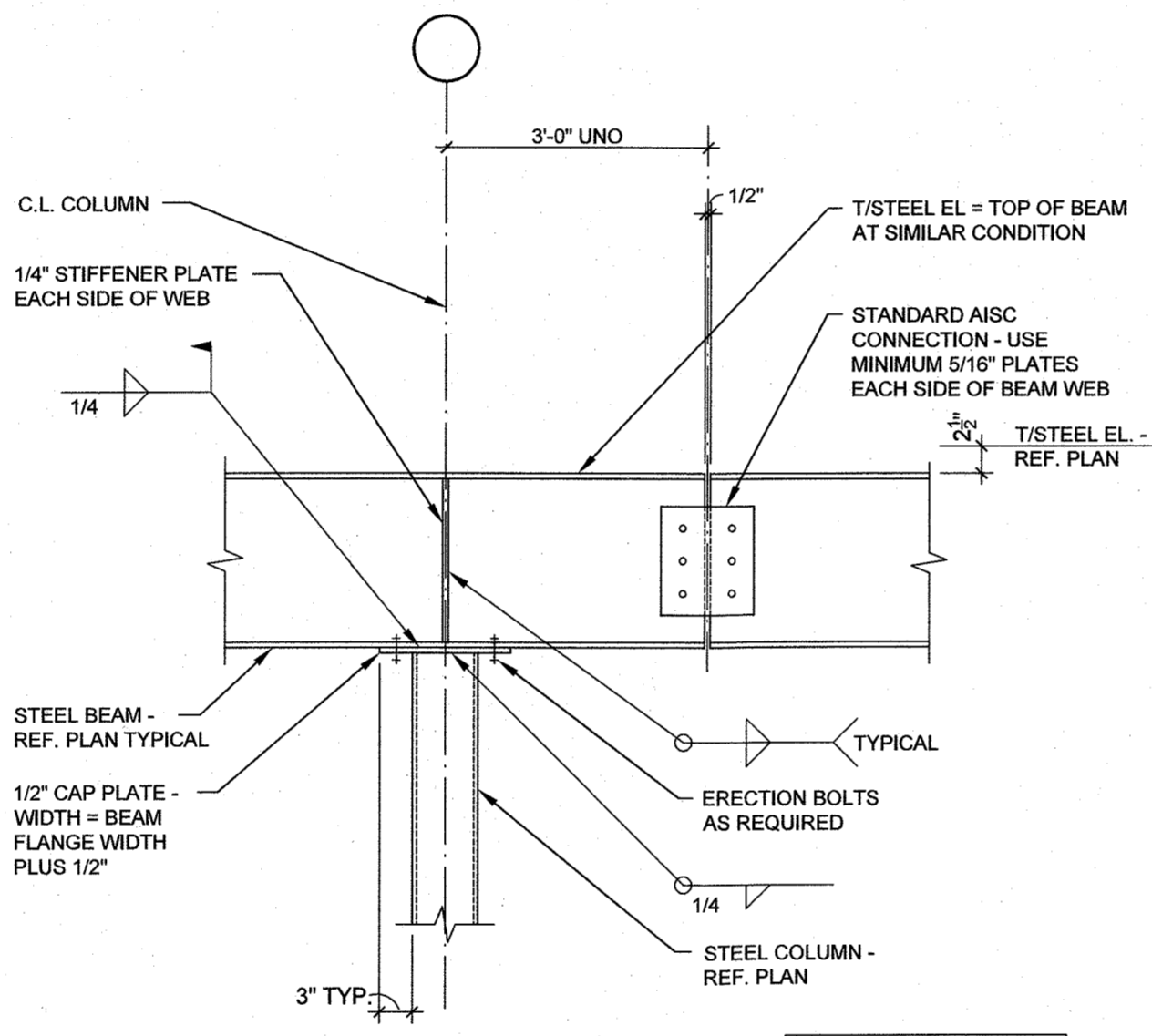


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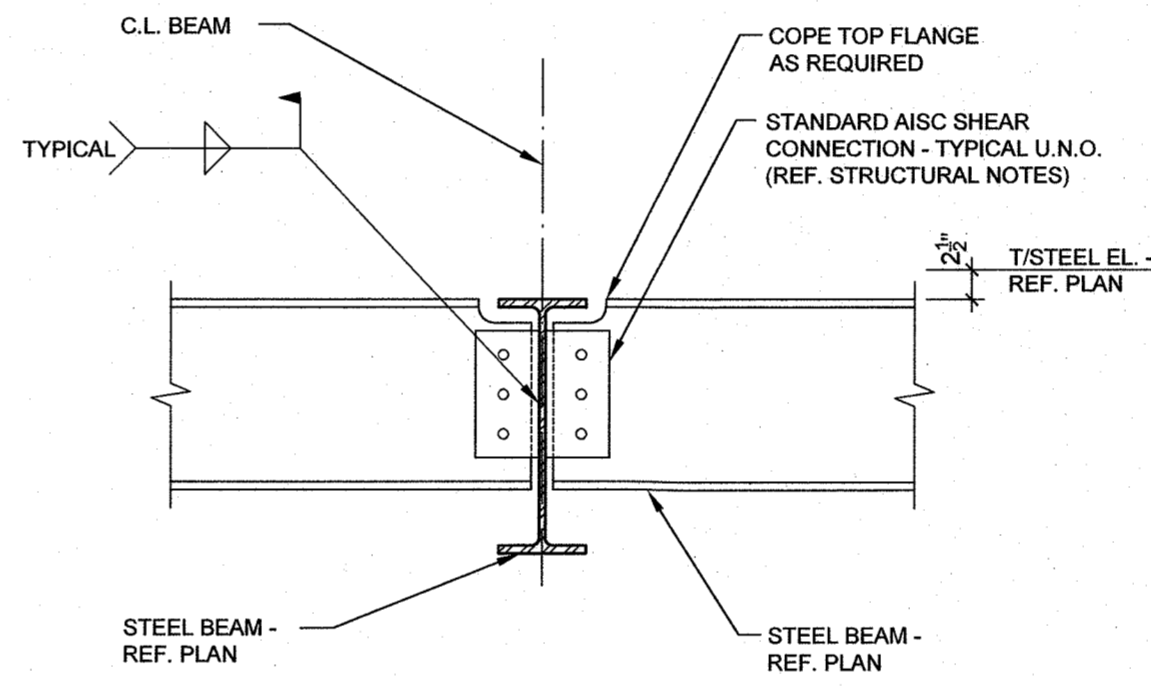
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NOTE: JOISTS AND DECK NOT SHOWN FOR CLARITY

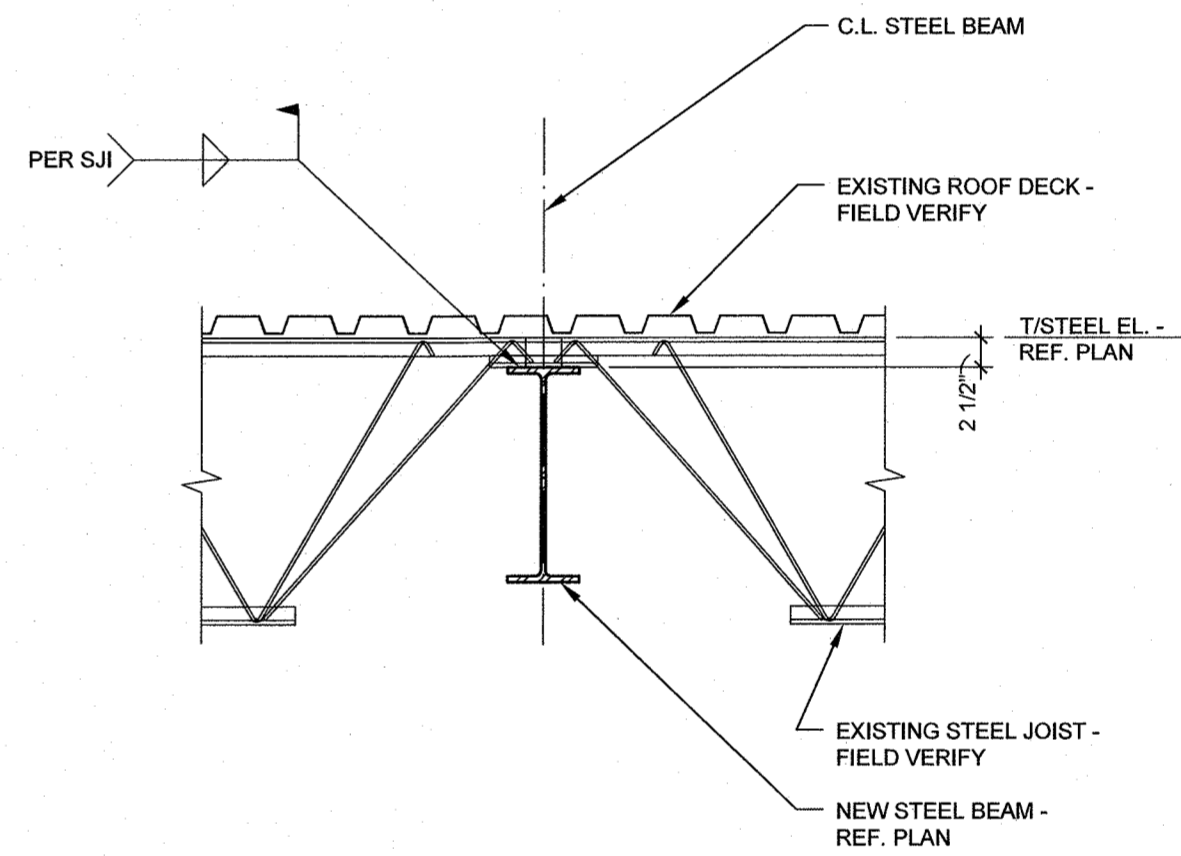


06 TYPICAL BEAM SPLICE DETAIL
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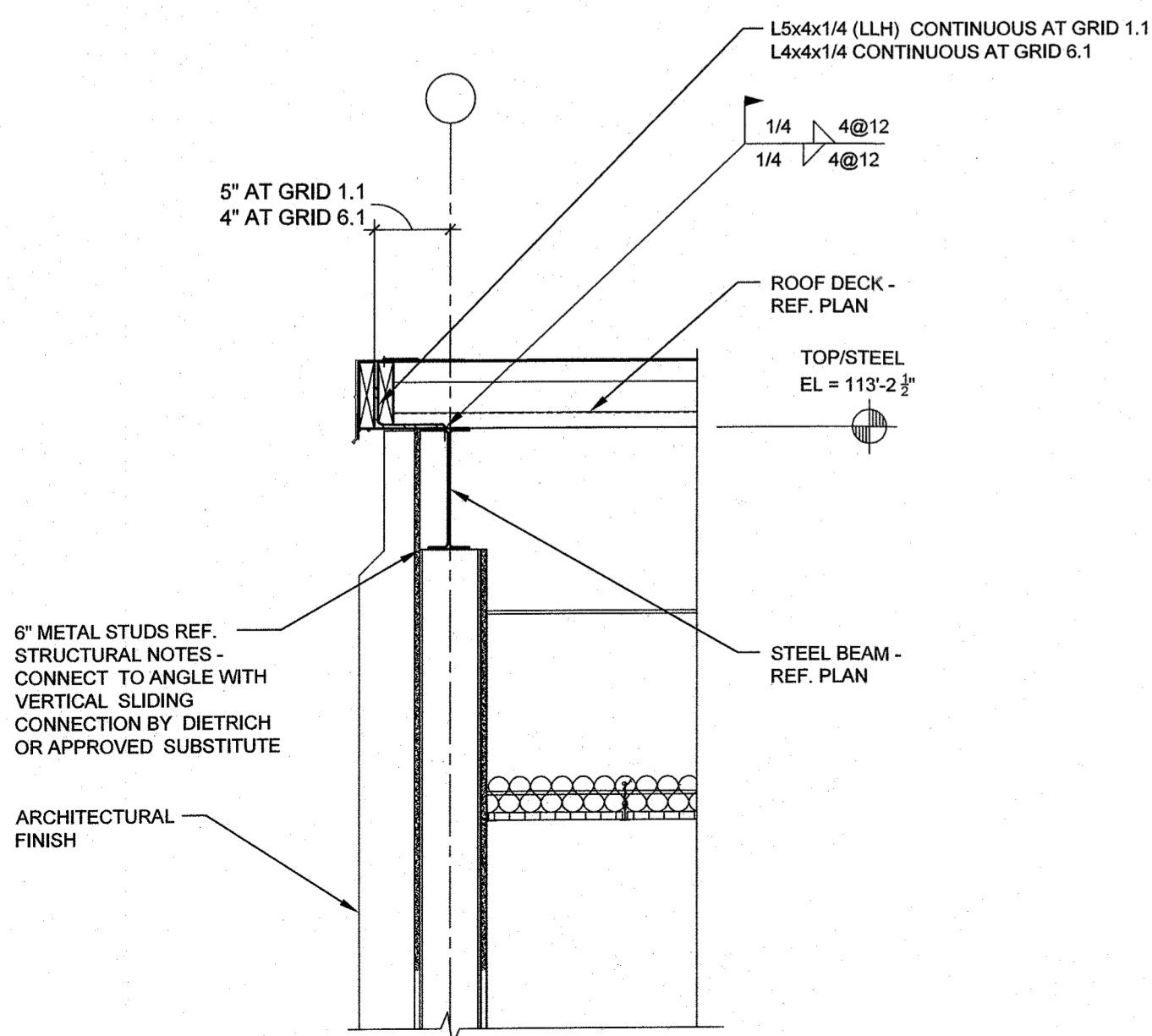
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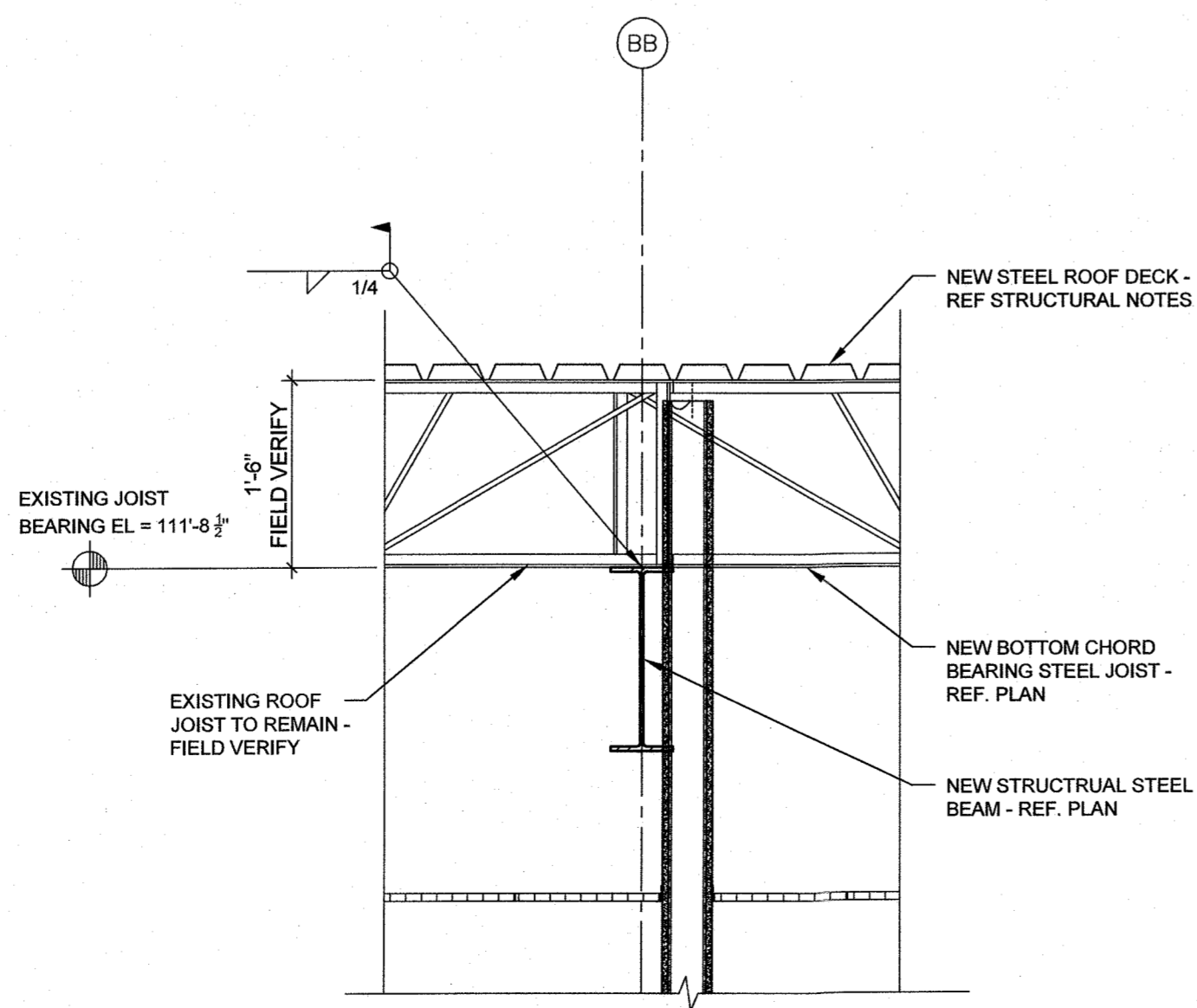
07 TYPICAL BEAM TO BEAM SHEAR CONNECTION DETAIL
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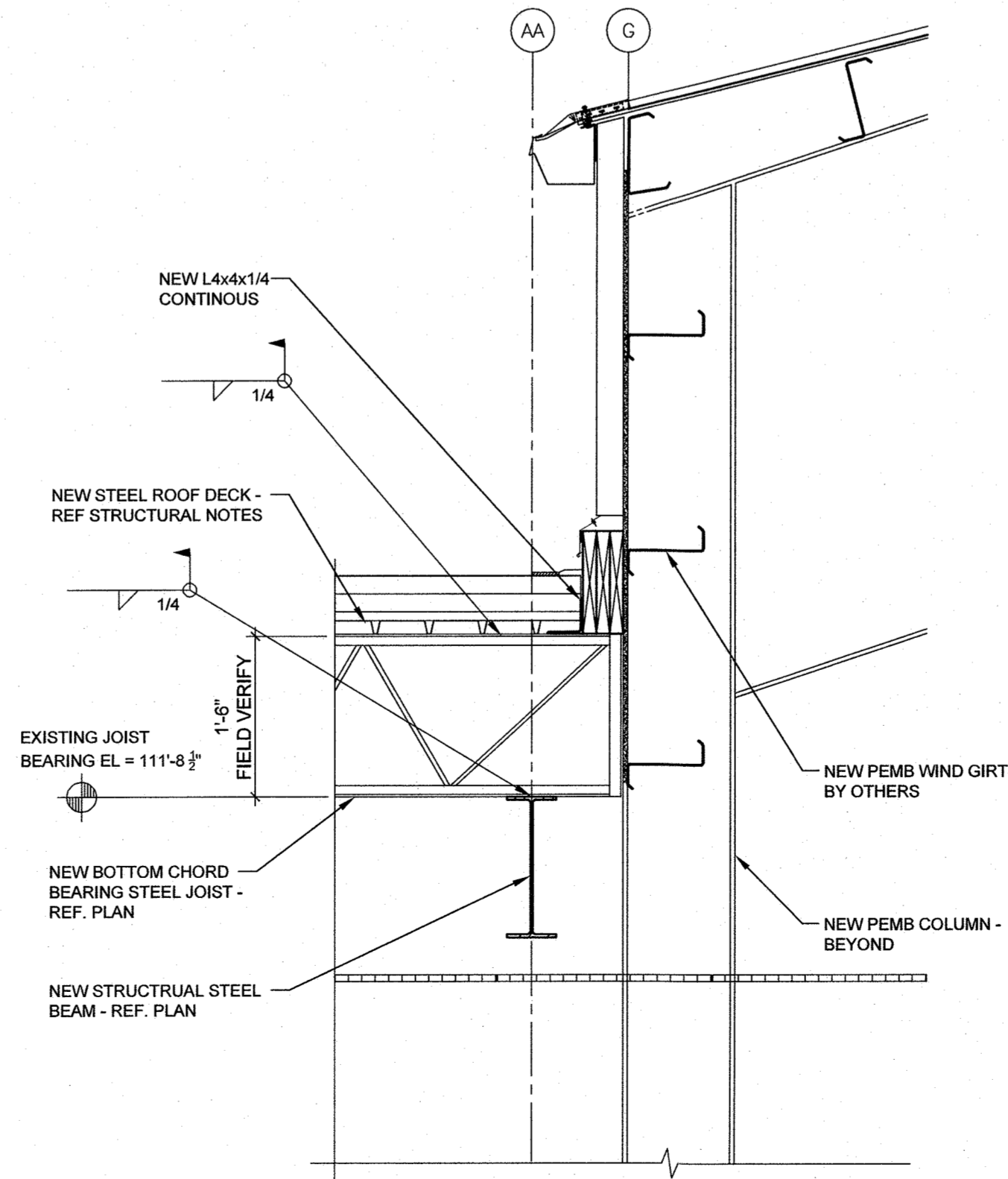
08 TYPICAL ROOF DETAIL
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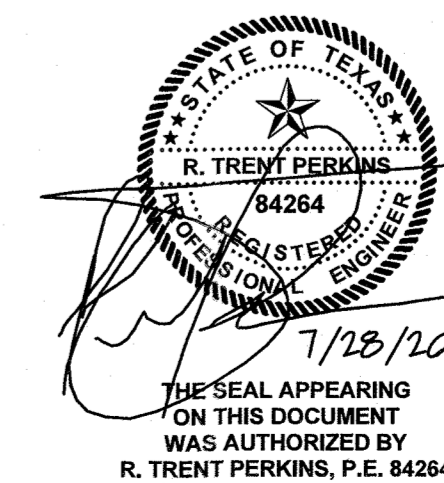
09 TYPICAL ROOF DETAIL
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10 TYPICAL ROOF DETAIL
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11 TYPICAL ROOF DETAIL
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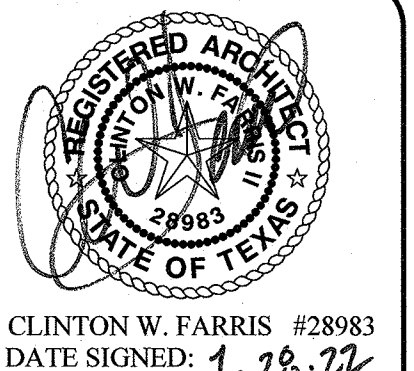
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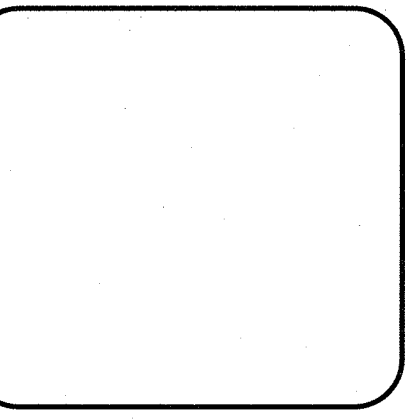
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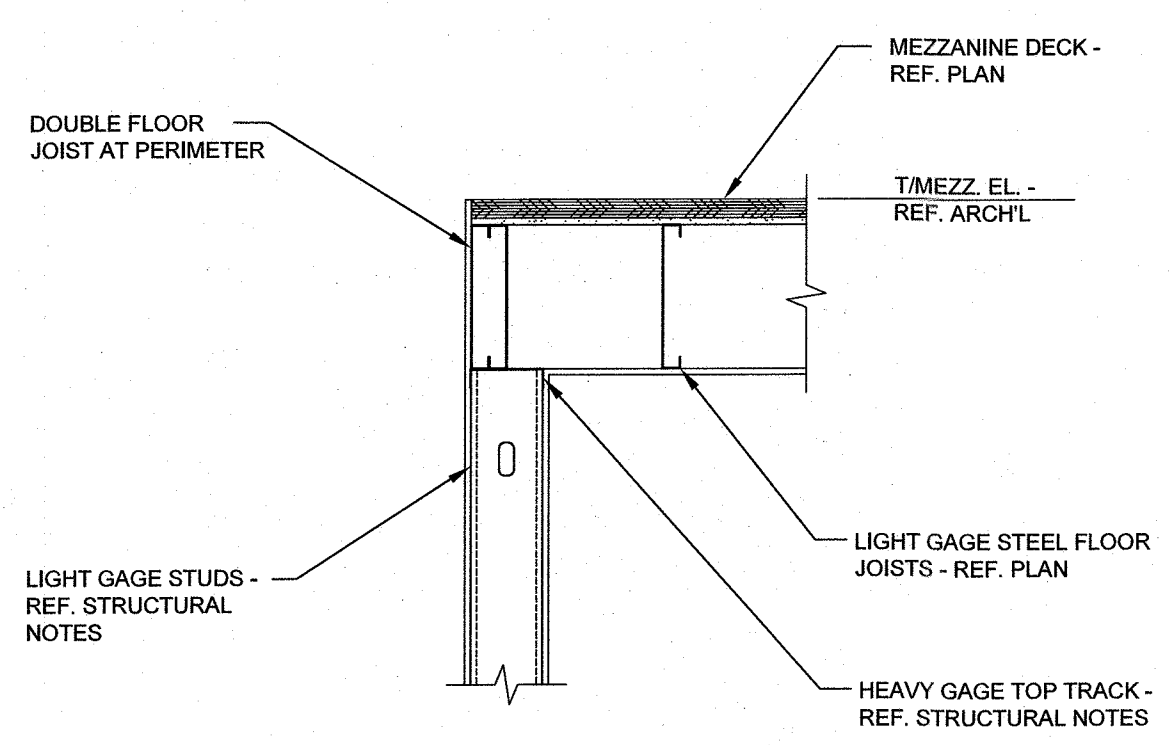


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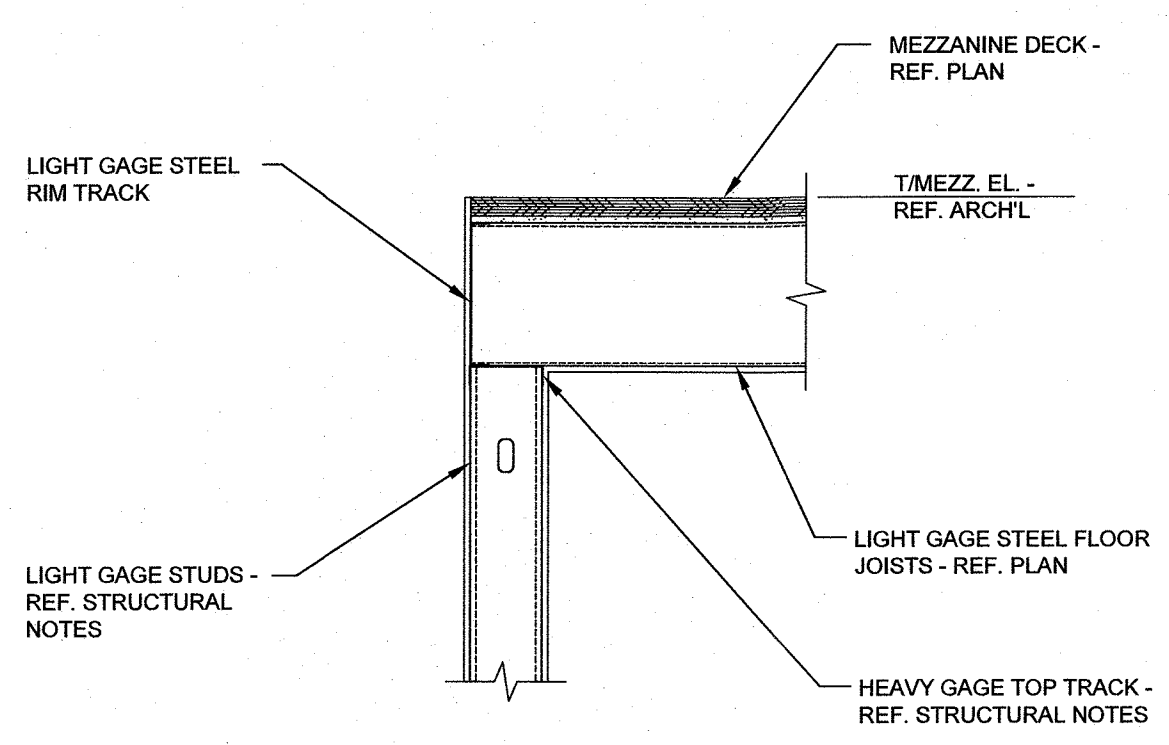


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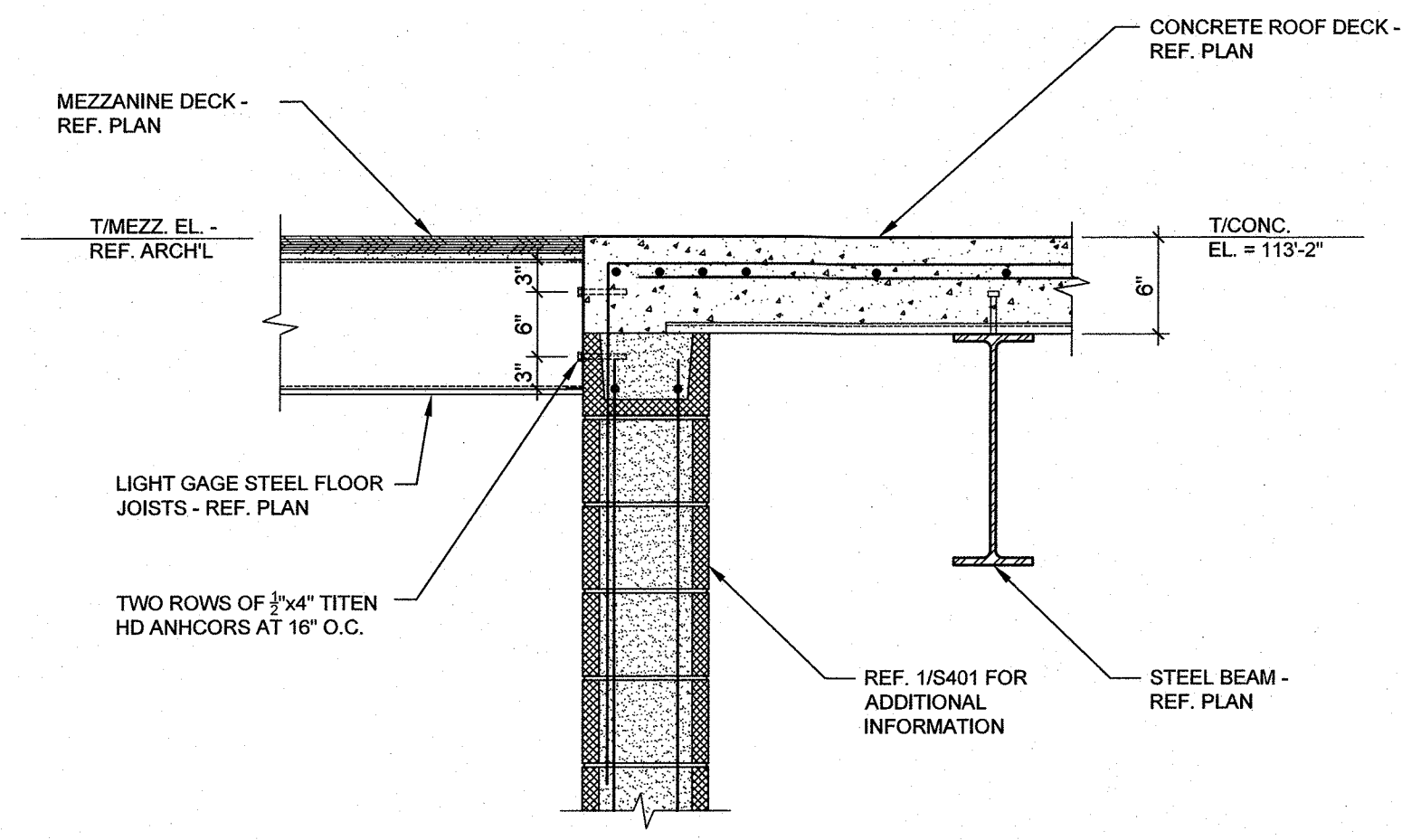
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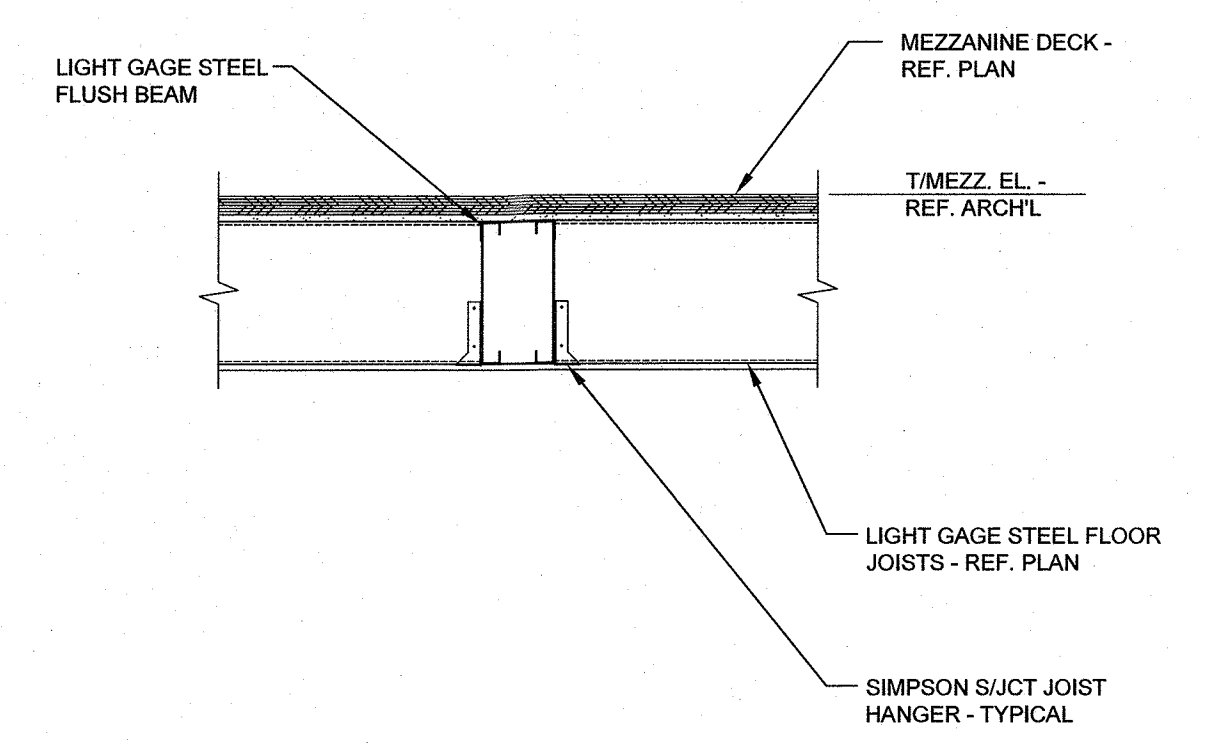
01 TYPICAL WALL DETAIL (JOISTS PARALLEL TO WALL)
NO SCALE



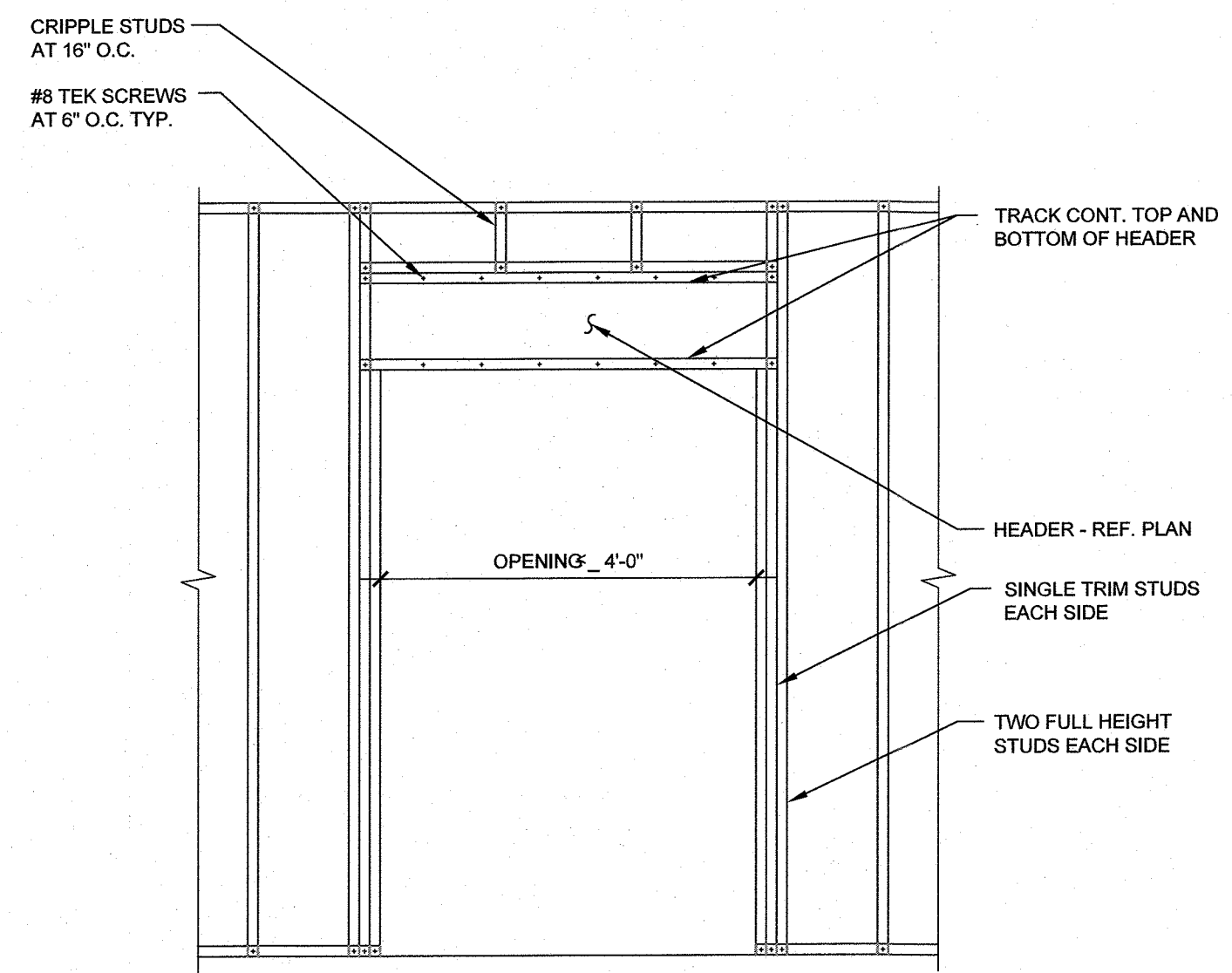
02 TYPICAL WALL DETAIL (JOISTS PERPENDICULAR TO WALL)
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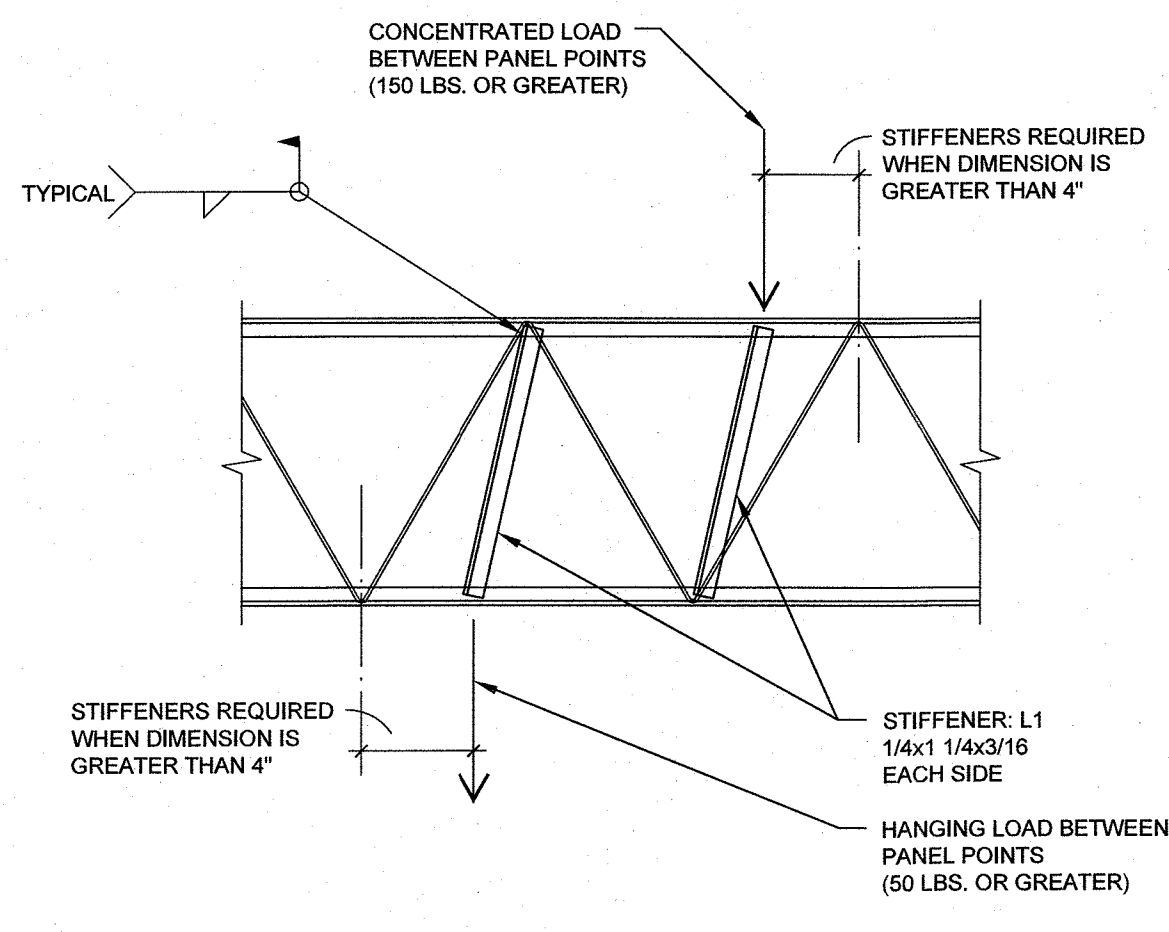
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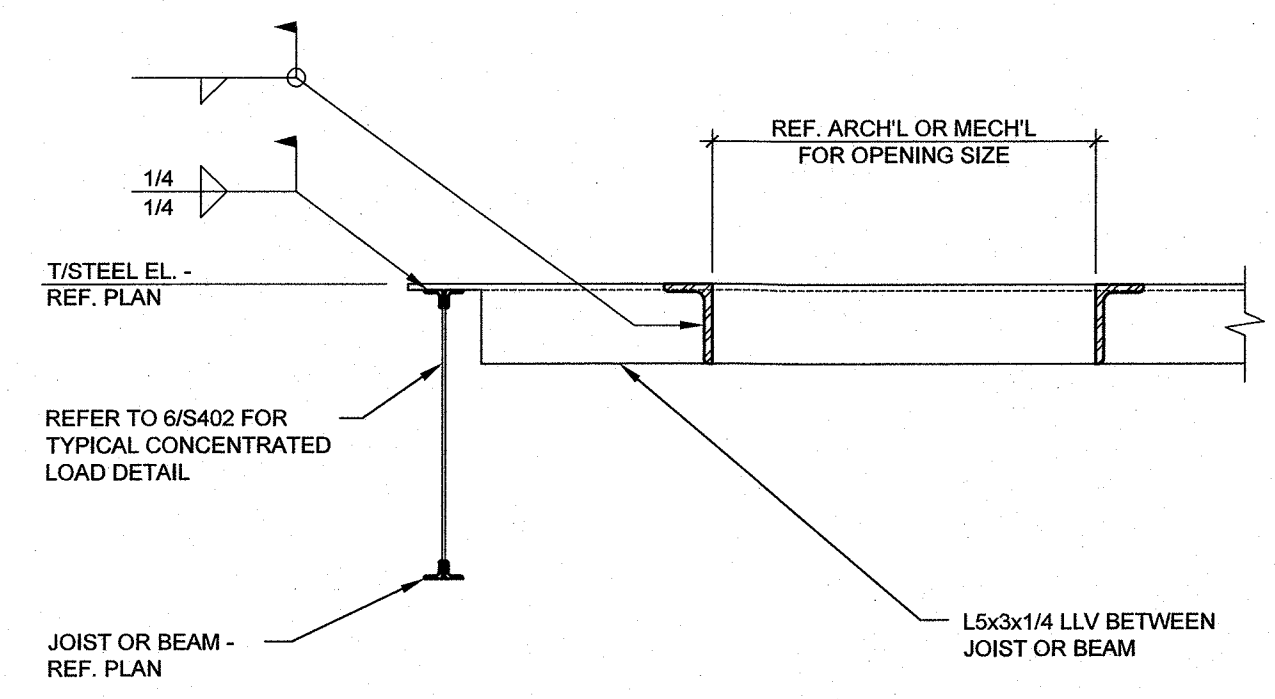
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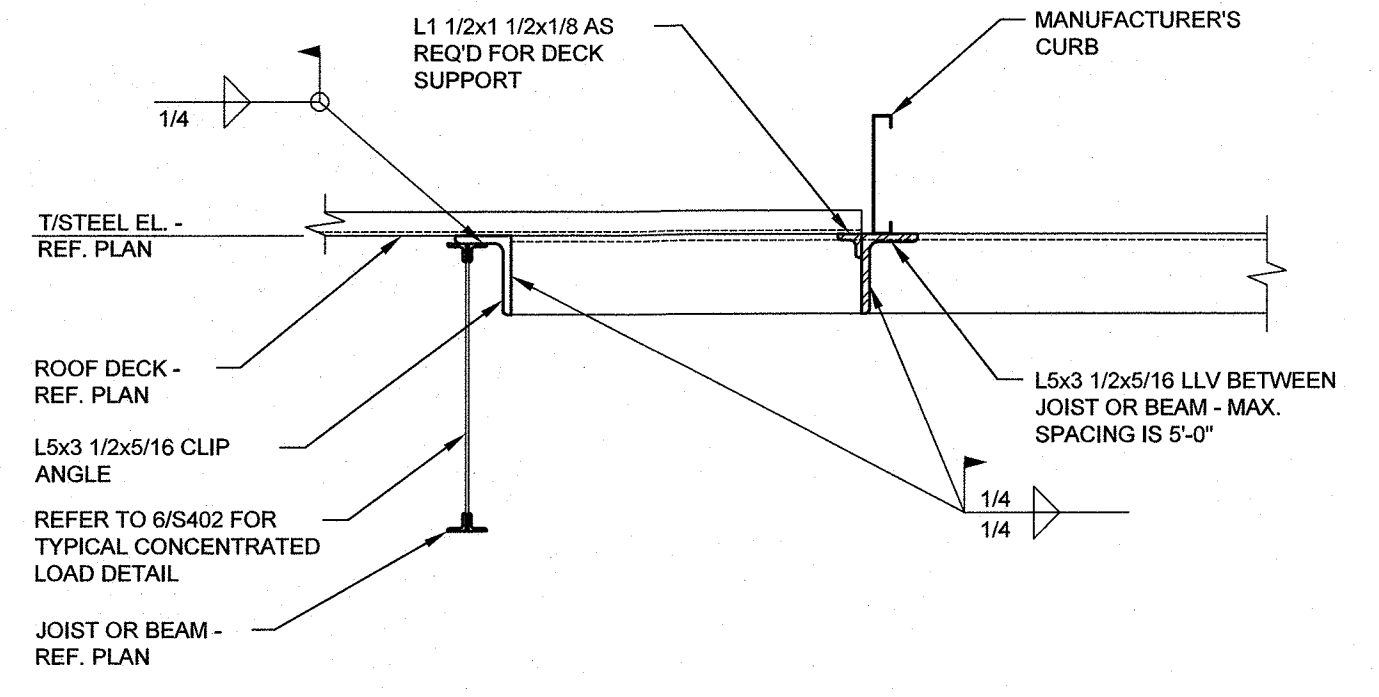
05 TYPICAL OPENING FRAMING AT LIGHTGAGE STEEL STUD WALL - OPENING 4'-0"
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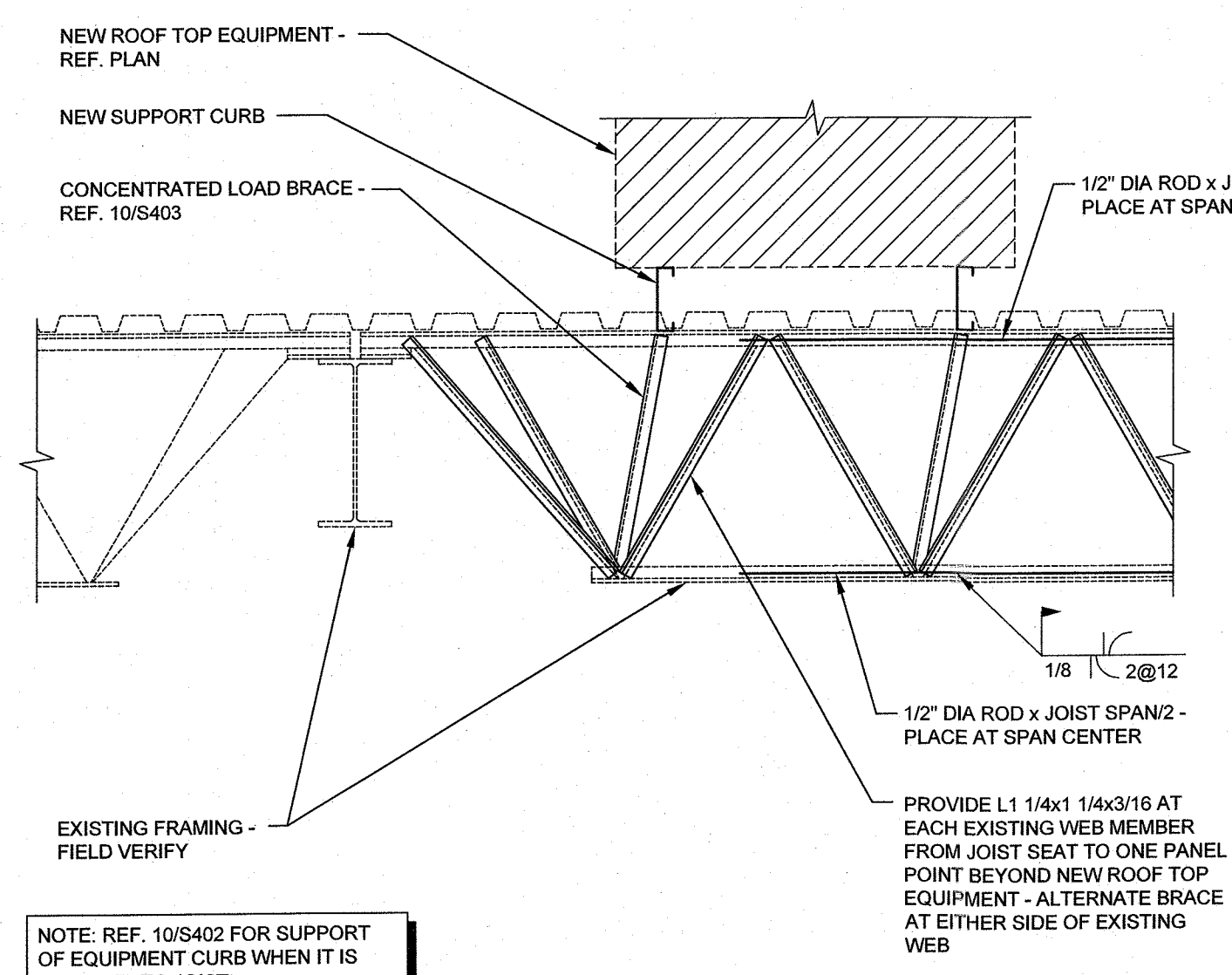
06 TYPICAL JOIST AT CONCENTRATED LOAD DETAIL
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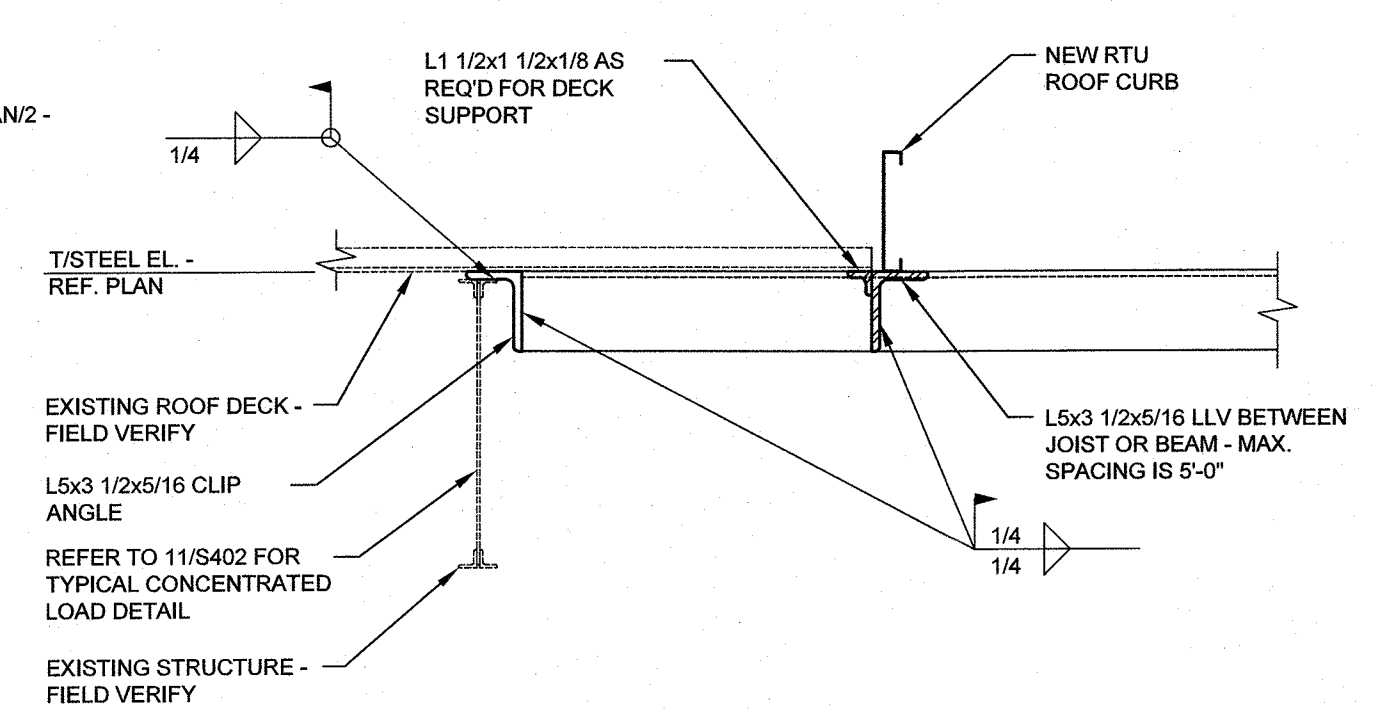
07 TYPICAL ROOF OPENING DETAIL
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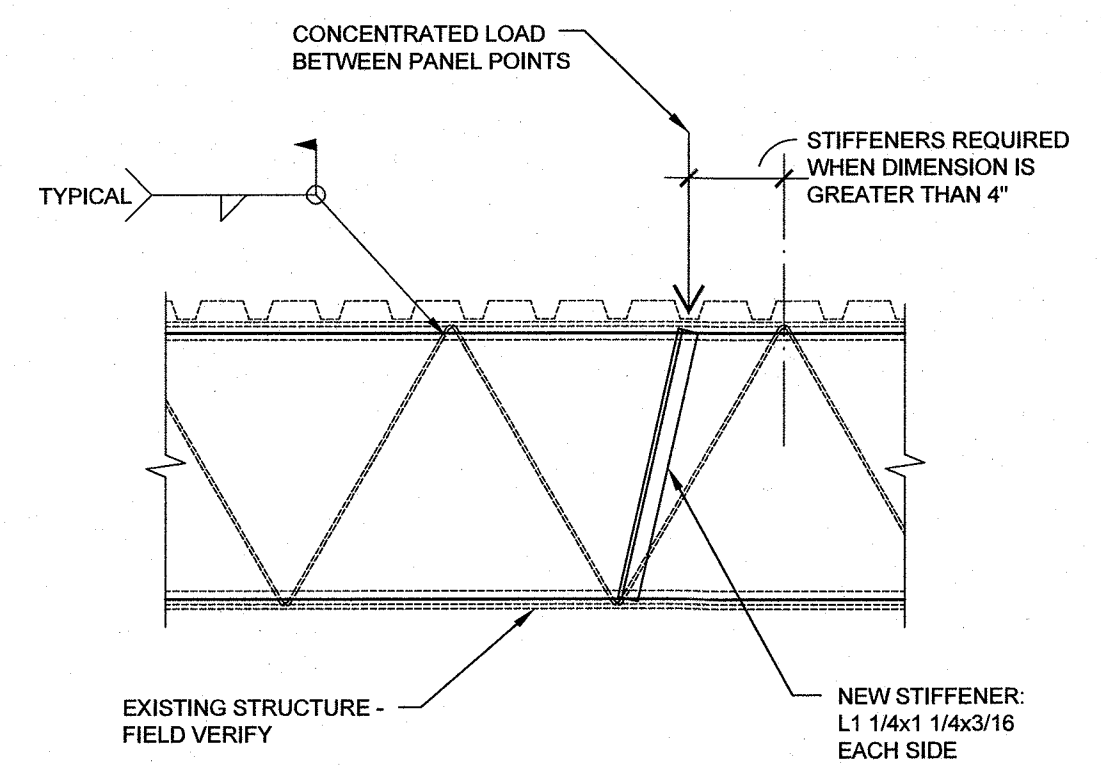
08 TYPICAL HVAC UNIT FRAMING DETAIL
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09 TYPICAL DETAIL TO REINFORCE EXISTING JOISTS FOR ADDITIONAL RTU LOADINGS
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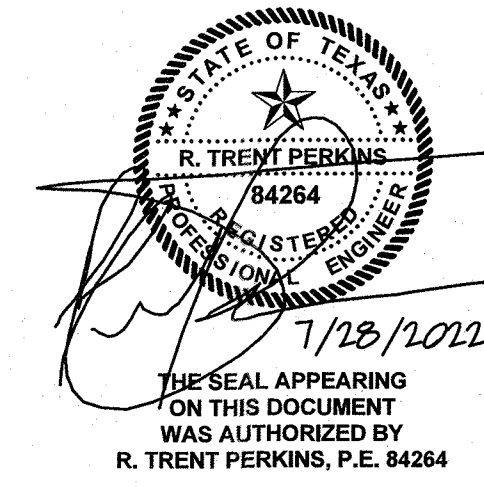


10 TYPICAL HVAC UNIT FRAMING DETAIL
NO SCALE



11 TYPICAL JOIST AT CONCENTRATED LOAD DETAIL
NO SCALE

NOTE: REF. 10/S402 FOR SUPPORT OF EQUIPMENT CURB WHEN IT IS PARALLEL TO JOIST



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