

Randolph County Purchasing Office

725 McDowell Road, Asheboro, NC 27205

P: 336.318.6304 F: 336.636.7568 Email: lisa.garner@randolphcountync.gov

Request for Qualifications

Construction Materials Testing and Special Inspections for Randolph County Farm, Food and Family Resource Center and Training and Event Center

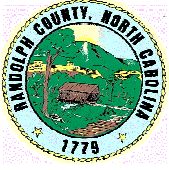
Description of Project

Randolph County is seeking a professional firm to provide material testing and special inspections for the Randolph County Farm, Food and Family Education Center. This agricultural education campus will be known as the Farm, Food & Family Education Center (F3EC). F3EC will have the mission of being a dynamic, innovative, and collaborative place for people and organizations to build farm, food, and family systems that strengthen economies, enhance resiliency, and build community. The F3EC will be sited in Asheboro, NC, on Highway 64 between East Salisbury Street and Vista Parkway. The F3EC will be comprised of two agricultural - and community -focused buildings including a Food and Family Resource Center (FFRC) and a Training and Event Center (TEC).

Definitions

As used in this RFQ, the following terms shall have the meanings set forth below:

<i>County:</i>	Randolph County Government
<i>Contract or Agreement:</i>	The contract(s) executed by the County and the Service Provider for the services covered by this RFQ
<i>RFQ:</i>	This Request for Qualifications for the services of Construction Material Testing and Special Inspections and any addenda issued by the County
<i>Services:</i>	The services described in this RFQ
<i>Service Provider:</i>	Each firm that submits a Qualifications Package for consideration by Randolph County in compliance with the requirements stated in this RFQ
<i>SOQ:</i>	The Service Provider's official response to this RFQ



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Attachments

Structural Drawings
Special Inspection Sheets
Special Inspection Specifications

Required Qualifications

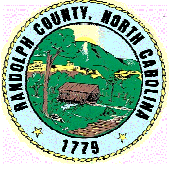
In order to be considered for this project, a Service Provider must demonstrate that their team has experience in materials testing. The approximate beginning date for the projects is November 2023. The beginning date for testing and special inspection services will depend upon the contractor's schedule.

Statement of Qualifications Preparations

If you would like to be considered for providing the required Services to Randolph County, please submit an electronic version of your qualifications to Lisa Garner, lisa.garner@randolphcountync.gov. The SOQs are due by 10:00 AM EST, Monday, August 7, 2023.

Your SOQ should consist of the following information:

- a. A cover letter (no more than 1 page) signed by a person empowered to commit the firm to a contractual arrangement with Randolph County. The cover letter should also include all contact information (phone number, email address, and mailing address). The letter should identify the persons who will be responsible for regular communications with Randolph County.
- b. A brief history of the firm and key subs, including the following:
 - Size of the firm and office locations
 - Locations of the office(s) where the work associated with each element of the project will be performed
- c. A range of services provided, relevant work experience, capabilities and expertise that qualify the firm to undertake this project. Relevant work experience should include projects of similar size undertaken within the last five (5) years, involving the field personnel who will be assigned to this project.
- d. A list of the individuals who will be providing services to the County, including their individual work experience and certifications
- e. A description of the firm's approach and methodology to execute the services required for this project
- f. A current certificate of insurance



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Contact with County Staff

Maintaining the integrity of this RFQ is of paramount importance for the County. To this end, unless you have questions regarding the RFQ process itself, do not contact any members of the Randolph County staff until the contract is awarded. Questions regarding the process may be directed to Lisa Garner at lisa.garner@randolphcountync.gov. Answers to questions will be posted on the Randolph County website (www.co.randolph.nc.us/purchasing/bid.htm). Failure to adhere to these restrictions may significantly reduce your prospects for selection.

Due Date

10:00 AM EST on Monday, August 7, 2023

Email to: lisa.garner@randolphcountync.gov

We look forward to receiving your qualifications package.

Lisa T. Garner
Purchasing Officer

ABBREVIATIONS

A.C.T.	ACOUSTICAL TILE	EQ	EQUAL	LAM	LAMINATE	R/A	RETURN AIR
A.F.F.	ABOVE FINISHED FLOOR	EQUIP	EQUIPMENT	LAV	LAVATORY	REBAR	REINFORCING BAR
A.R.A.	AREA OF RESCUE ASSISTANCE	EXIST	EXISTING	M.O.	MASONRY OPENING	REF	REFERENCE
ADJ	ADJACENT	EXT	EXTERIOR	MAT'L	MATERIAL	REINF	REINFORCING
ALUM	ALUMINUM			MAX	MAXIMUM	REQ'D	REQUIRED
APPROX	APPROXIMATE	F.D.	FLOOR DRAIN	MECH	MECHANICAL	REV	REVISION
		F.E.	FIRE EXTINGUISHER	MFR	MANUFACTURER	RM	ROOM
B.E.J.	BUILDING EXPANSION JOINT	F.F.E.	FURNITURE, FIXTURES, EQUIPMENT	MIN	MINIMUM	S.C.	SOLID CORE
BD	BOARD	F.O.E.W.	FACE OF EXISTING WALL	MISC	MISCELLANEOUS	S.S.	STAINLESS STEEL
BLDG	BUILDING	F.O.M.	FACE OF MASONRY	MTL	METAL	SHT	SHEET
BOT	BOTTOM	F.O.S.	FACE OF STUD	N.I.C.	NOT IN CONTRACT	SIM	SIMILAR
BSMT	BASEMENT	F.P.H.B	FREEZE-PROOF HOSE BIB	N.T.S.	NOT TO SCALE	SPEC	SPECIFICATION
		FACT	FACTORY FINISH	NOM	NOMINAL	SQ. FT.	SQUARE FEET
C.F.C.I.	CONTRACTOR-FURNISHED CONTRACTOR-INSTALLED	FE (SM)	SURFACE MOUNTED	O.F.C.I.	OWNER-FURNISHED CONTRACTOR-INSTALLED	SQ. IN.	SQUARE INCH
C.F.O.I.	CONTRACTOR-FURNISHED OWNER-INSTALLED	FE (SR)	SEMI-RECESSED	O.C.	ON CENTER	STD	STANDARD
C.J.	CONTROL JOINTS	FIN	FINISH	O.D.	OUTSIDE DIAMETER	STL	STEEL
C.O.	CLEAN OUT	FLR	FLOOR	O.F.C.I.	OWNER-FURNISHED CONTRACTOR-INSTALLED	STRUC	STRUCTURAL
C.T.	CERAMIC TILE	FLUOR	FLUORESCENT	O.F.O.I.	OWNER-FURNISHED OWNER-INSTALLED	T.O.S.	TOP OF STEEL
CLG	CEILING	FRP	FIBERGLASS REINFORCED PANELS	O.H.	OVERHEAD	TELE	TELEPHONE
CLR	CLEAR	FTG	FOOTING	OPP	OPPOSITE	THR'LD	THRESHOLD
CMU	CONCRETE MASONRY UNIT	G.C.	GENERAL CONTRACTOR	P.L.	PLASTIC LAMINATE	TYP	TYPICAL
COL	COLUMN	G.D.S.	GUTTER DOWNSPOUT	P.S.F.	POUNDS PER SQ. FOOT	U.C.	UNDER COUNTER
CONC	CONCRETE	GA	GAUGE	P.S.I.	POUNDS PER SQ. INCH	U.N.O.	UNLESS NOTED OTHERWISE
CONST	CONSTRUCTION	GALV	GALVANIZED	PART	PARTITION	V.C.T.	VINYL COMPOSITION TILE
CONT	CONTINUOUS	GWB	GYPSPUM WALL BOARD	PEMB	PRE-ENGINEERED METAL BUILDING	V.W.C.	VINYL WALL COVERING
COORD	COORDINATE	H.D.	HEAVY DUTY	PLY	PLYWOOD	VERT	VERTICAL
CPT	CARPET	H.M.	HOLLOW METAL	PROP	PROPERTY	W.C.	WATER CLOSET
		HDW	HARDWARE	PT	PAINT	W.G.	WIRE GLASS
DEPT	DEPARTMENT	HT	HEIGHT	PVC	POLYVINYL CHLORIDE	W.W.F.	WELDED WIRE FABRIC
DIA	DIAMETER	I.D.	INSIDE DIAMETER	Q.T.	QUARRY TILE	W/	WITH
DIM	DIMENSION	INSUL	INSULATION	R	RADIUS	WD	WOOD
DWG	DRAWING	INT	INTERIOR	R.D.	ROOF DRAIN		
		K	KIPS	R.D.L.	ROOF DRAIN LEADER		
E.J.	EXPANSION JOINT						
E.W.C.	ELECTRIC WATER COOLER	JT	JOINT				
EA	EACH						
ELEC	ELECTRICAL						
ELEV	ELEVATION						

SYMBOL LEGEND

ROOM NAME 101	ROOM / AREA
101	DOOR ID.
01 A101	DETAIL
N	NORTH ARROW
01 A000	ELEVATION CALLOUT
01 A000	SECTION CALLOUT
A 12' - 0"	CEILING TYPE CEILING ELEVATION HT.
A	WINDOW TYPE
MXXX	PARTITION TYPE
CWXX	CASEWORK TYPE

GENERAL ARCHITECTURAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND OTHER REQUIREMENTS NECESSARY FOR CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- SEE SITE, CIVIL, AND LANDSCAPE PLANS FOR CONTINUATION OF WORK OUTSIDE OF BUILDING.
- SEE LIFE SAFETY PLANS FOR FIRE EXTINGUISHER LOCATIONS

KEYNOTES - MASTER

033000.A1	UNDER SLAB VAPOR BARRIER
033000.C	CAST-IN-PLACE CONCRETE CURB AT PERIMETER OF ARENA; SEE PLAN FOR EXTENTS
033000.V	UNDERSLAB VAPOR BARRIER
033000.W	CAST-IN-PLACE CONCRETE WALL; SEE STRUCTURAL
042000.B4	CONCRETE MASONRY UNITS, 4 X 8 X 16 NOMINAL
042000.B8	CONCRETE MASONRY UNITS, 8 X 8 X 16 NOMINAL, SEE STRUCTURAL
042000.C	WEEPS, SPACED AT 24" O.C. MAXIMUM, U.O.N.
042000.G	GROUT
042000.T	MASONRY WALL TIES AT 16" OC VERTICALLY AND HORIZONTALLY
042200.8	8" CMU
042200.B	4" CMU TO SUPPORT VENEER MASONRY ABOVE, GROUT SOLID
047200.F	CAST STONE MASONRY UNITS, TYPE F, COPING
047300.V	FULL-BED MANUFACTURED STONE VENEER
047313.C	CALCIUM SILICATE MANUFACTURED STONE MASONRY COPING CAP WITH DRIP EDGE
047313.S	SILL SHAPE BY CALCIUM SILICATE MASONRY MANUFACTURER W/ DRIP EDGE
047313.V	CALCIUM SILICATE MANUFACTURED STONE MASONRY VENEER
051200.P	BENT PLATE FLUSH WELDED TO STRUCTURAL STEEL BEAM, SEE STRUCTURAL
051200.S	STRUCTURAL STEEL, SEE STRUCTURAL
054000.3	LIGHT GAUGE ZEE FURRING
054000.6	6" COLD FORMED METAL FRAMING, 16" OC
054000.8	8" COLD FORMED METAL FRAMING, 16" OC
055213	PIPE AND TUBE RAILINGS-EXTERIOR
061000.A	WOOD BLOCKING
061000.B	PRESSURE TREATED WOOD BLOCKING
061000.N	PPRESSURE TREATED WOOD NAILERS AS NEEDED
061000.P	3/4" PLYWOOD SPACER/MOUNTING PLATE, PAINTED TO MATCH WALL
061000.T	1/2" PLYWOOD
061600.A	GLASS-MAT GYPSUM SHEATHING WITH FACTORY APPLIED AIR BARRIER MEMBRANE.
061600.F	FLUID-APPLIED MEMBRANE AIR BARRIER WITH REINFORCING MESH AS FLASHING
061600.S	SELF-ADHERED AIR AND VAPOR BARRIER MEMBRANE
061753	SHOP-FABRICATED WOOD TRUSS, SEE STRUCTURAL
064116.01	PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS (PL-1); SEE FINISH LEGEND
071113	DAMP-ROOFING
072100.B6	FIBERGLASS BATT INSULATION, R-21
072100.B8	FIBERGLASS BATT INSULATION, R-15
072100.P	RIGID PERIMETER INSULATION AT SLAB EDGE; R-10 MIN.
072100.S	BATT INSULATION SURROUNDING STRUCTURAL FRAMING
072100.X1	EXTRUDED POLYSTYRENE RIGID INSULATION BOARD, R-7.5
072726.S	FLUID-APPLIED MEMBRANE AIR BARRIER
072726.T	SELF-ADHERED AIR AND VAPOR BARRIER MEMBRANE
074000	PULTRUDED FIBERGLASS REINFORCED POLYMER (FRP) CLADDING

074000.1	FRP CLADDING SUPPORT SYSTEM. SYSTEM COMPONENTS AND SPACING SUBJECT TO DELEGATED DESIGN.
074113.13	EXPOSED FASTENER METAL ROOF
074113.B	SELF-ADHERED MEMBRANE UNDERLAYMENT
074113.F	BRAKE METAL FASCIA PREFINISHED TO MATCH ROOF
074113.T	FIELD-FORMED TERMINATION TRIM PREFINISHED TO MATCH ROOF
074213.C	PREFINISHED METAL CLOSURE BY METAL WALL PANEL MANUFACTURER
074213.D	PREFINISHED ALUMINUM BRAKE METAL CLOSURE BY METAL PANEL INSTALLER
074213.T	PREFINISHED METAL TRIM BY METAL WALL PANEL MANUFACTURER
074213.W	PREFINISHED METAL WALL PANEL
074293.S	PREFINISHED METAL PANEL SOFFIT SYSTEM
074293.T	PREFINISHED TRIM BY SOFFIT PANEL MANUFACTURER
074646	WOOD-LOOK FIBER CEMENT SIDING
074646.A	PREFINISHED ALUMINUM BRAKE METAL CLOSURE BY FIBER CEMENT INSTALLER; MATCH COLOR OF FIBER CEMENT
074646.F	SEALANT BACKER BY FIBER CEMENT MANUFACTURER AND SEALANT
074646.S	WOOD-LOOK FIBER CEMENT SIDING
074646.T	FIBER CEMENT SIDING INSTALLATION TRACK
074646.V	VENTED SHIM BY FIBER CEMENT MANUFACTURER
076200.A	THRU-WALL FLASHING
076200.A3	TERM BAR AND SEALANT
076200.B	FORMED METAL FLASHING
076200.B4	PREFINISHED METAL DRIP EDGE W/ HEMMED EDGE
076200.F	PREFINISHED SHEET METAL FLASHING W/HEMMED EDGE
076200.R	PREFINISHED METAL FASCIA WITH DRIP EDGE
078413	PENETRATION FIRE STOPPING
079200	JOINT SEALANTS
079200.F	PREMOLDED JOINT FILLER AND SEALANT
079200.R	BACKER ROD AND SEALANT
081113	HOLLOW METAL DOORS AND FRAMES
081213	HOLLOW METAL FRAMES
083323	OVERHEAD COILING DOORS, SEE DOOR SCHEDULE AND TYPES
084113	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
084313	ALUMINUM STOREFRONT SYSTEM
084313.L	WOOD-LOOK ALUMINUM SHADING LOUVERS BY CURTAINWALL/STOREFRONT MANUFACTURER, WHERE OCCURS. SEE BUILDING ELEVATIONS
084313.S	ALUMINUM STOREFRONT SYSTEM
084313.SF	PREFINISHED ALUMINUM SILL FLASHING BY SF INSTALLER; MATCH FINISH OF SF MULLION AND PROVIDE END DAM. & HEMMED EDGE
084313.T	PREFINISHED ALUMINUM BRAKE METAL CLOSURE BY SF INSTALLER; MATCH FINISH OF SF MULLION.
087100.T	DOOR HARDWARE, THRESHOLD AS SPECIFIED
088300.A	FULL HEIGHT MIRROR
088300.B	MIRROR UNIT
092216.M4	STEEL STUD FRAMING, 3 5/8"
092216.M6	STEEL STUD FRAMING, 6"

092900	GYPSUM BOARD
092900.01	5/8" GYPSUM WALLBOARD
092900.03	CEMENT BOARD
092900.06	LAMINATING COMPOUND
092900.I	5/8" INTERIOR GYPSUM WALLBOARD
093013.01	WALL TILE (WT-1); SEE FINISH LEGEND
093013.02	WALL TILE (WT-2); SEE FINISH LEGEND
093013.03	WALL TILE (WT-3); SEE FINISH LEGEND
093013.05	WALL TILE (WT-5); SEE FINISH LEGEND
093013.06.A	TILE BASE (TB-1); SEE FINISH LEGEND
093013.A	TILING ACCESSORIES
095113	ACOUSTICAL PANEL CEILINGS
096513.01	RUBBER BASE (RB-1); SEE FINISH LEGEND
096513.02	RUBBER BASE (RB-2); SEE FINISH LEGEND
096723.A	RESINOUS FLOORING ACCESSORY
096813.A	TILE CARPETING ACCESSORY
097200.03	WALL COVERING (WC-3); SEE FINISH LEGEND
097200.A	WALL COVERING ACCESSORY
098100.B	SOUND ATTENUATION BATT INSULATION
099123.01	PAINT (PT-1); SEE FINISH LEGEND
099123.03	PAINT (PT-3); SEE FINISH LEGEND
099123.05	PAINT (PT-5); SEE FINISH LEGEND
099123.06	PAINT (PT-6); SEE FINISH LEGEND
099123.07	PAINT (PT-7); SEE FINISH LEGEND
099123.08	PAINT (PT-8); SEE FINISH LEGEND
101419	DIMENSIONAL LETTER SIGNAGE
102113	TOILET COMPARTMENTS; SEE FINISH LEGEND
102113.16	PLASTIC-LAMINATE-CLAD TOILET COMPARTMENTS
102800.01.A	GRAB BAR; HORIZONTAL; SEE TYP. TLT. ELEVATIONS FOR DIMENSIONS
102800.01.B	GRAB BAR; VERTICAL; 18"
102800.02	TOILET TISSUE DISPENSER
102800.03	SANITARY NAPKIN DISPOSAL
102800.04.A	COMBINATION TOWEL DISPENSER/WASTE RECEPTACLE; SURFACE-MOUNTED
102800.04.B	COMBINATION TOWEL DISPENSER/WASTE RECEPTACLE; RECESSED
102800.05.A	DIAPER CHANGING STATION; SURFACE-MOUNTED
102800.05.B	DIAPER CHANGING STATION; RECESSED
102800.07	SOAP DISPENSER
102800.08	MIRROR UNIT
102800.09	ROBE HOOK
102800.12	CUSTODIAL MOP AND BROOM HOLDER
104416	FIRE EXTINGUISHERS
104416.02	RECESSED FIRE EXTINGUISHER CABINET
108200	WOOD-LOOK ALUMINUM SCREENING SYSTEM
123661.16.01	SOLID SURFACE (SS-1); SEE FINISH LEGEND
123661.A	SURFACE-MOUNTED L BRACKET
133419.E	EAVE TRIM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER
133419.G	PREFINISHED METAL GUTTER/DOWNSPOUT SYSTEM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER

133419.H	RAKE TRIM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER
133419.N	BIRD DETERRENCE NET, TIGHT TO UNDERSIDE OF STRUCTURE
133419.P	PRESSURE TREATED WOOD FURRING OVER WOOD TRUSS FOR ROOF PANEL ATTACHMENT; COORDINATE SPACING WITH ROOF MANUFACTURER
133419.R	ROOFING SYSTEM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER
133419.T	PREFINISHED METAL WALL TRIM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER
133419.X	CANOPY STRUCTURE, ROOF DECK AND FASCIA BY METAL BUILDING MANUFACTURER. PROVIDE INTEGRAL DRAINAGE SYSTEM AND CONNECT TO DOWNSPOUT AT LOCATION SHOWN.
133419.Y	CANOPY TIE-BACK, IF REQUIRED.
133419.Z	PREFINISHED DOWNSPOUT BY METAL BUILDING MANUFACTURER.
220000	SEE PLUMBING
224000.T	TRENCH DRAIN; SEE PLUMBING
321400.S	BRICK PAVING SYSTEM AT COURTYARD; SEE LANDSCAPE DRAWINGS
323513	WOOD LOOK ALUMINUM SCREENING PLANKS AND ASSOCIATED CARRYING SYSTEM.
334600.P	FOUNDATION DRAIN, SEE CIVIL
E01	MANUFACTURED STONE VENEER, TYP.
E02	WOOD-LOOK FIBER CEMENT RAINSCREEN SYSTEM.
E03	PREFINISHED METAL WALL PANEL SYSTEM BY PEMB MANUFACTURER.
E04	DIMENSIONAL LETTER SIGNAGE.
E05	WOOD-LOOK ALUMINUM SCREENING SYSTEM AND ASSOCIATED STRUCTURE
E07	INSULATED OVERHEAD COILING DOOR.
E09	CMU WALL AT ARENA RESTROOM.
E10	PREFINISHED METAL ROOF BY PEMB MANUFACTURER.
E15	WOOD-LOOK ALUMINUM SHADING LOUVERS BY CURTAINWALL/STOREFRONT MANUFACTURER
E16	PREFINISHED METAL CANOPY BY PEMB MANUFACTURER
E24	PREFINISHED METAL GUTTER/DOWNSPOUT SYSTEM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER
E27	PREFABRICATED ALUMINUM BLEACHERS, OFCI.
E28	WALL-MOUNTED LIGHT FIXTURE; SEE ELECTRICAL
OFO1	OWNER FURNISHED; OWNER INSTALLED
P03	INSULATED OVERHEAD COILING DOOR
P04	NO SLAB AT ARENA FLOOR; SEE LANDSCAPE SPECIFICATIONS FOR FLOOR MEDIUM
P06	CIP CONCRETE WALL AT 12" H
P07	8'H CIP WALL AT COLUMNLINE 3.
P08	PEMB STRUCTURE, TYP.
P18	PREFABRICATED ALUMINUM BLEACHERS, OFCI.
P19	8'H CHAIN LINK FENCE
P39	GENERATOR LOCATION; SEE ELECTRICAL
P40	PEDESTAL FOR CARD READER AND ADA ACTUATOR
P43	DOOR HARDWARE, DOOR ACTUATOR
R01	PREFINISHED METAL ROOF SYSTEM BY PEMB MANUFACTURER, TYP.

R02	PREFINISHED METAL GUTTER AND DOWNSPOUT SYSTEM BY PEMB MANUFACTURER, TYP.
RS01	CIP SLAB AT RAW STORAGE FOOTPRINT, SEE STRUCT.
RS02	CIP WALLS UP TO ROOF BEARING, SEE STRUCT.
RS03	WOOD ROOF STRUCTURE WITH METAL ROOF PANELS
RS04	EXPOSED FASTENER METAL WALL PANEL TO MATCH ROOF; CONTINUOUS OVER LVL BEAM
S02	CONCRETE LOADING RAMP, SEE CIVIL
S03	PAVER COURTYARD, SEE LANDSCAPE DWGS.
S05	HVAC UNIT AT OUTDOOR MECHANICAL YARD, SEE HVAC DWGS.
S16	DUMPSTER LOCATION
S17	GRAVEL TRAILER PARKING
S18	GRAVEL TRAILER LOOP
S19	FARM EQUIPMENT WORKSHOP/SHED
S20	RAW STORAGE BUILDING
S22	RETAINING WALL, SEE CIVIL DWGS
S23	ALTERNATE - GENERATOR AT OUTDOOR MECHANICAL YARD, SEE ELEC. DWGS
S24	BUILDING TRANSFORMER LOCATION, SEE ELEC.
S26	GRIT INTERCEPTOR, SEE CIVIL DWGS.
WS02	EQUIPMENT SHOWN FOR REFERENCE ONLY, NIC.
WS03	COVERED STORAGE AREA; DASHED LINES INDICATES EXTENT OF ROOF ABOVE. (BOTH SIDES)
WS04	PREFINISHED METAL WALL PANEL SYSTEM BY PEMB MANUFACTURER
WS05	PREFINISHED METAL ROOF PANEL SYSTEM BY PEMB MANUFACTURER
WS06	CANOPY STRUCTURE BY PEMB MANUFACTURER
WS07	TRIM AND SOFFIT BY PEMB MANUFACTURER
WS08	INSULATION/AIR BARRIER BY PEMB MANUFACTURER
WS09	CIP SLAB OVER VAPOR BARRIER, SEE STRUCTURAL
WS10	INTERIOR LINER PANEL BY PEMB MANUFACTURER



1100 Dresser Court
Raleigh, NC 27609
Office 919.828.2301
Email office@hh-arch.com

F3EC - TRAINING AND EVENT CENTER
RANDOLPH COUNTY
1800 US HWY 64 E, ASHEBORO, NC 27203
22-004

DOCUMENT FOR REVIEW
NOT FOR CONSTRUCTION

DOCUMENT FOR REVIEW
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

JOB NUMBER
22-004
DATE ISSUED
05/10/2023
PROJECT STATUS
100% CD

SHEET
GENERAL ARCHITECTURAL NOTES

G001

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

NAME OF PROJECT: **F3EC - TRAINING AND EVENT CENTER**
 ADDRESS: **1800 US HWY 64 E, ASHEBORO, NC 27203** ZIP CODE: **27203**
 OWNER/AUTHORIZED AGENT: **PAXTON ARTHURS** PHONE: **336.318.6605** EMAIL: **paxton.athurs@grandditchcounty.gov**
 OWNED BY: CITY/COUNTY PRIVATE STATE
 CODE ENFORCEMENT JURISDICTION: CITY **ASHEBORO** COUNTY STATE

DESIGNER	FIRM	NAME	LIC.#	TELEPHONE.#	E-MAIL
ARCHITECTURAL	HH ARCHITECTURE	KRISTEN M. HESS	9290	919.828.2301	khess@hh-arch.com
CIVIL	THE WOOTEN COMPANY	ANA WADSWORTH	42389	919.828.0531	awadsworth@thewootencompany.com
ELECTRICAL	SALAS O'BRIEN	MATT JOHNSON	35503	984.200.9026	matt.johnson@salasobrien.com
FIRE ALARM	SALAS O'BRIEN	JUSTIN SARFIN	50567	984.200.9024	justin.sarfin@salasobrien.com
PLUMBING	SALAS O'BRIEN	ROGER WOODS	15004	984.200.9047	roger.woods@salasobrien.com
MECHANICAL	SALAS O'BRIEN	JUSTIN SARFIN	50567	984.200.9024	justin.sarfin@salasobrien.com
SPRINKLER/STAMPPE	SALAS O'BRIEN	JUSTIN SARFIN	50567	984.200.9024	justin.sarfin@salasobrien.com
STRUCTURAL	LYNCH MYKINS	DAN DONECKER	40415	919.809.8948	ddonecker@lynchmykins.com
RETAINING WALLS > HIGH	-	-	-	-	-
PRE-CAST	-	-	-	-	-
TRUSS	-	-	-	-	-
LANDSCAPE	PROSPECT LA	JEN WAGNER	1791	919.607.0025	jenwagnerlandscape@gmail.com
HAZMAT	-	-	-	-	-

2018 NC BUILDING CODE: NEW BUILDING ADDITION RENOVATION
 1st TIME INTERIOR COMPLETION
 SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
 PHASED CONSTRUCTION - SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

2018 NC EXISTING BUILDING CODE: EXISTING: PRESCRIPTIVE REPAIR CHAPTER 14 ALTERATION: LEVEL I LEVEL II LEVEL III HISTORIC PROPERTY CHANGE OF USE

CONSTRUCTED (date): - PROPOSED OCCUPANCY(S) (Ch. 3): -
 RENOVATED (date): - PROPOSED OCCUPANCY(S) (Ch. 3): **A3 & A4 ASSEMBLY**

RISK CATEGORY (Table 1604.5): **CURRENT:** I II III IV V
PROPOSED: I II III IV V

CONSTRUCTED (date): - ORIGINAL USE(S) (Ch. 3): - PROPOSED USE(S) (Ch. 3): **A3 & A4 ASSEMBLY**
 RENOVATED (date): - CURRENT USE(S) (Ch. 3): -

BASIC BUILDING DATA
 CONSTRUCTION TYPE: I-A II-A III-A IV-A V-A
 I-B II-B III-B IV-B V-B
 (check all that apply)
 SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 13D
 STAMPPIPES: NO YES CLASS I II III WET DRY
 FIRE DISTRICT: NO YES
 FLOOD HAZARD AREA: NO YES
 SPECIAL INSPECTIONS REQUIRED: NO YES (CONTACT THE LOCAL INSPECTION JURISDICTION FOR ADDITIONAL PROCEDURES AND REQUIREMENTS.)

GROSS BUILDING AREA TABLE				
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	CANOPY (SQ FT)	SUB-TOTAL
1st FLOOR	-	43,338	137	43,475
TOTAL				43,475 SF

ALLOWABLE AREA
PRIMARY OCCUPANCY CLASSIFICATION(S):
 ASSEMBLY A-1 A-2 A-3 A-4 A-5
 BUSINESS
 EDUCATIONAL
 FACTORY F-1 MODERATE F-2 LOW
 HAZARDOUS H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM
 INSTITUTIONAL I-1 CONDITION 1 2
 I-2 CONDITION 1 2
 I-3 CONDITION 1 2 3 4 5
 I-4
 MERCANTILE
 RESIDENTIAL R-1 R-2 R-3 R-4
 STORAGE S-1 MODERATE S-2 LOW HIGH-PILED
 PARKING GARAGE OPEN ENCLOSED REPAIR GARAGE
 UTILITY AND MISCELLANEOUS

ACCESSORY OCCUPANCY CLASSIFICATION(S): -
 INCIDENTAL USES (Table 509): -
 SPECIAL USES (Chapter 4 - List Code Sections): -
 SPECIAL PROVISIONS (Chapter 5 - List Code Sections): -
 MIXED OCCUPANCY: NO YES
 SEPARATION: - HR. EXCEPTION: -

NON-SEPARATED USE (508.3) - THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.

SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1.00 \quad \text{AREA} \frac{\cdot}{\cdot} + \frac{\cdot}{\cdot} = X \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR FRONTAGE INCREASE 1,5	(D) ALLOWABLE AREA PER STORY OR UNLIMITED 2,3
1	A3	11,798 SF	38,000 SF	7,125 SF	45,125 SF
1	A4	31,677 SF	38,000 SF	7,125 SF	45,125 SF

- Frontage area increases from Section 506.3 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = 1,056 (F)
 - Total building perimeter = 1,056 (P)
 - Ratio (F/P) = 1 (F/P)
 - W = Minimum width of public way = 30 ft (W)
 - Percent of frontage increase formula: $I_i = 100[(F/P - 0.25) \times W/30] = \underline{75}$ (%)

- Unlimited area applicable under conditions of section 507.
- Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- The maximum area of open parking garages must comply with Table 406.5.4.
- Frontage increase is based on the un sprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
BUILDING HEIGHT IN FEET (Table 504.3) ²	75	32	-
BUILDING HEIGHT IN STORIES (Table 504.4) ³	3	1	-

- Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1.
- The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
			PROVIDED (w/ REDUCTION)	+				
STRUCTURAL FRAME, INCLUDING COLUMNS, GRIDDERS, TRUSSES	0	0	-	-	-	-	-	-
BEARING WALLS	-	-	-	-	-	-	-	-
EXTERIOR	0	0	-	-	-	-	-	-
NORTH	>30'	0	-	-	-	-	-	-
EAST	>30'	0	-	-	-	-	-	-
WEST	>30'	0	-	-	-	-	-	-
SOUTH	>30'	0	-	-	-	-	-	-
INTERIOR	>30'	0	-	-	-	-	-	-
NONBEARING WALLS AND PARTITIONS	-	-	-	-	-	-	-	-
EXTERIOR WALLS	0	0	-	-	-	-	-	-
NORTH	0	0	-	-	-	-	-	-
EAST	0	0	-	-	-	-	-	-
WEST	0	0	-	-	-	-	-	-
SOUTH	0	0	-	-	-	-	-	-
INTERIOR WALLS & PARTITIONS	0	0	-	-	-	-	-	-
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0	0	-	-	-	-	-	-
FLOOR CEILING ASSEMBLY	0	0	-	-	-	-	-	-
COLUMNS SUPPORTING FLOORS	0	0	-	-	-	-	-	-
ROOF CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS	0	0	-	-	-	-	-	-
ROOF CEILING ASSEMBLY	0	0	-	-	-	-	-	-
COLUMNS SUPPORTING ROOF	0	0	-	-	-	-	-	-
SHAFT ENCLOSURES - EXIT	N/A	N/A	-	-	-	-	-	-
SHAFT ENCLOSURES - OTHER	N/A	N/A	-	-	-	-	-	-
CORRIDOR SEPARATION	N/A	N/A	-	-	-	-	-	-
OCCUPANCY/FIRE BARRIER SEPARATION	N/A	N/A	-	-	-	-	-	-
PARTY/FIRE WALL SEPARATION	N/A	N/A	-	-	-	-	-	-
SMOKE BARRIER SEPARATION	N/A	N/A	-	-	-	-	-	-
SMOKE PARTITION	N/A	N/A	-	-	-	-	-	-
TENANT / DWELLING UNIT / SLEEPING UNIT SEPARATION	N/A	N/A	-	-	-	-	-	-
FIRE PUMP ROOM	N/A	1	1	G006.G007	U419/1504/			

* Indicates section number permitting reduction V497

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'	UNPROTECTED, SPRINKLERED	NO LIMIT	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: NO YES
 EXIT SIGNS: NO YES
 FIRE ALARM: NO YES
 SMOKE DETECTION SYSTEM: NO YES PARTIAL
 CARBON MONOXIDE DETECTION: NO YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET #: G101

FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)

- OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
- OCCUPANT LOADS FOR EACH AREA
- EXIT ACCESS TRAVEL DISTANCES (1017)
- COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- DEAD END LENGTHS (1020.4)
- CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- MAX. CALCULATED OCC. LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
- ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR

LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)

NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS PROVIDED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	-	-	-	-	-

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	132' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
CAMPUS	359	367	7	1	1	9
TOTAL	-	-	-	-	-	-

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
NEW	3	11	1	5	4	7	-	0	2	2
REQ'D	2	10	1*	4	3	3	1*	0	1	1

*PER NCSBC 1109.2.1

SPECIAL APPROVALS

SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)
 DEPARTMENT OF INSURANCE
 CITY OF ASHEBORO

ENERGY SUMMARY

ENERGY REQUIREMENTS:

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING COMPLIES WITH CODE: NO YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

EXEMPT BUILDING: NO YES (PROVIDE CODE OR STATUTORY REFERENCE): -

CLIMATE ZONE: 3A 4A 5A

METHOD OF COMPLIANCE: ENERGY CODE PERFORMANCE PRESCRIPTIVE
 ASHRAE 90.1 PERFORMANCE PRESCRIPTIVE
 (IF "OTHER" SPECIFY SOURCE HERE) -

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

ROOF / CEILING ASSEMBLY (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: PRE-ENGINEERED METAL BUILDING ROOF
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: R-10 + R-19 FC
 SKYLIGHTS IN EACH ASSEMBLY: N/A
 U-VALUE OF SKYLIGHT: N/A
 TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: N/A

EXTERIOR WALLS (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: MASONRY CAVITY WALL w/ CONT. RIGID INSUL.
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: R-7.5 ci, R-15 batt
 OPENINGS (WINDOWS OR DOORS WITH GLAZING)
 U-VALUE OF ASSEMBLY: 0.45
 SOLAR HEAT GAIN COEFFICIENT: 0.4
 PROJECTION FACTOR: 0
 DOOR R-VALUES: ENTRANCE - 0.77
OTHERS - 0.45

WALLS BELOW GRADE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: N/A
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: -

FLOORS OVER UNCONDITION SPACE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY: N/A
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: -

FLOORS SLAB ON GRADE

DESCRIPTION OF ASSEMBLY: SLAB ON GRADE WITH MASONRY STEM WALL
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: R-7.5 AT EXTERIOR FACE OF STEM WALL
 HORIZONTAL/VERTICAL REQUIREMENT: VERTICAL
 SLAB HEATED: NO

STRUCTURAL SUMMARY

DESIGN LOADS:

IMPORTANCE FACTORS: SNOW (Is) 1.1
 SEISMIC (Ie) 1.25
 LIVE LOADS: ROOF 20 psf
 MEZZANINE 150 psf
 FLOOR 100 psf
 GROUND SNOW LOAD: 15 psf
 WIND LOAD: ULTIMATE WIND SPEED 120 mph (ASCE-7)
 EXPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY: A B C D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

RISK CATEGORY (Table 1604.5) I II III IV

SPECTRAL RESPONSE ACCELERATION Ss 0.186 %g S1 0.088 %g

SITE CLASSIFICATION (ASCE 7) A B C D

DATA SOURCE: Field Test Presumptive Historical Data

BASIC STRUCTURAL SYSTEM Bearing Wall Dual w/ Special Moment Frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum

ANALYSIS PROCEDURE: Simplified Equivalent Lateral Force Dynamic

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO

LATERAL DESIGN CONTROL: EARTHQUAKE WIND

SOIL BEARING CAPACITIES

FIELD TEST (provide copy of test report) - psf
 PRESUMPTIVE BEARING CAPACITY - psf
 PILE SIZE, TYPE, AND CAPACITY -

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE: 2013 ASHRAE FUNDAMENTALS, RANDOLPH COUNTY, CLIMATE ZONE: 3A
 WINTER DRY BULB: 18 DEGREES F
 SUMMER DRY BULB: 91.5 DEGREES F

INTERIOR DESIGN CONDITIONS:
 WINTER DRY BULB: 70 DEGREES F
 SUMMER DRY BULB: 75 DEGREES F
 RELATIVE HUMIDITY 50%

BUILDING HEATING LOAD: 849 MBH

BUILDING COOLING LOAD: 48 TONS



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Email office@hh-arch.com

F3EC - TRAINING AND EVENT CENTER

RANDOLPH COUNTY
1800 US HWY 64 E, ASHEBORO, NC 27203

22-004

DOCUMENT FOR REVIEW
NOT FOR CONSTRUCTION

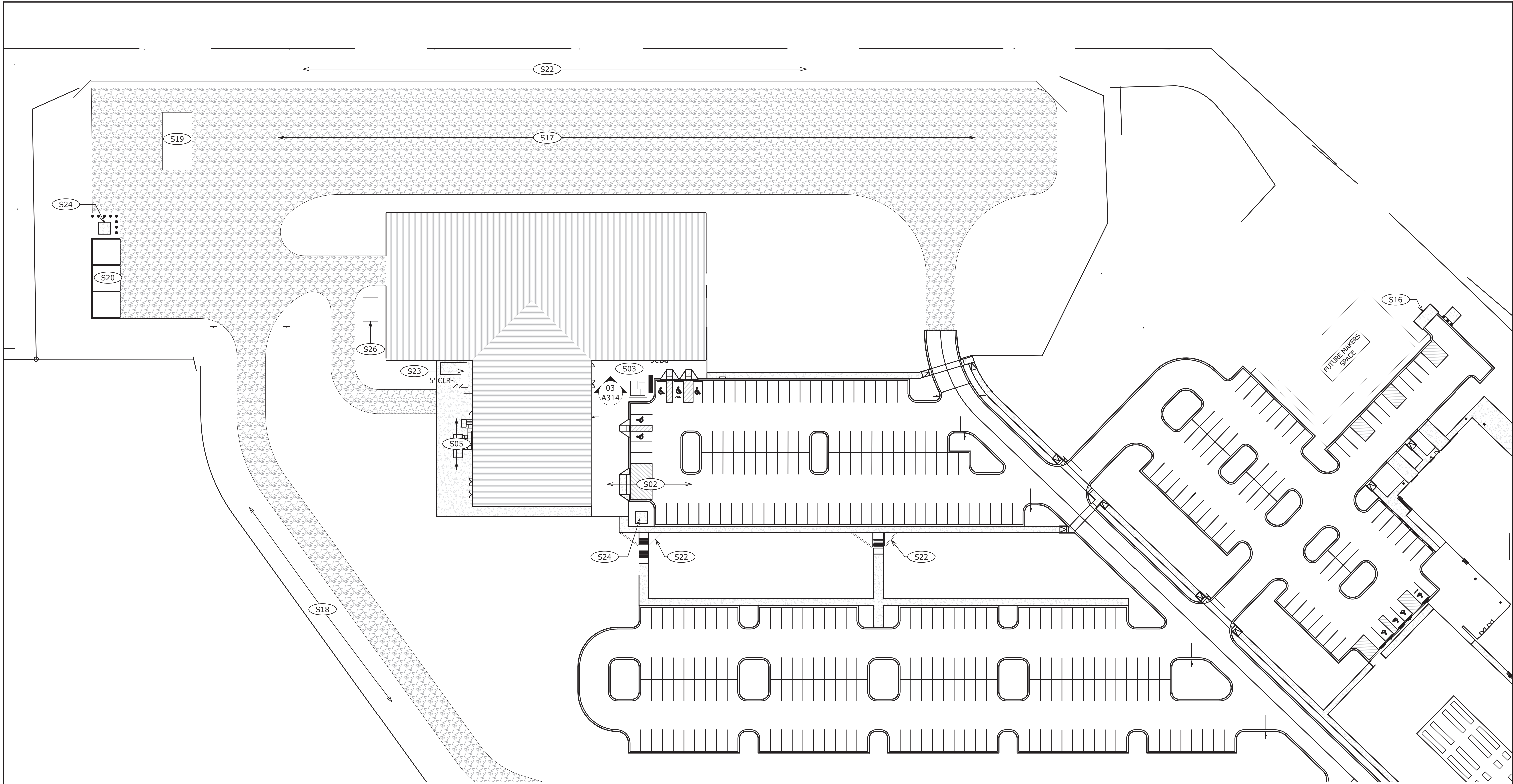
DOCUMENT FOR REVIEW
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

JOB NUMBER
22-004
DATE ISSUED
05/10/2023
PROJECT STATUS
100% CD

SHEET
FARM FOOD & FAMILY CENTER -ARCHITECTURAL SITE PLAN

AS101



01 FARM FOOD & FAMILY CENTER - SITE PLAN
AS101 1" = 40'-0"

SITE PLAN NOTES

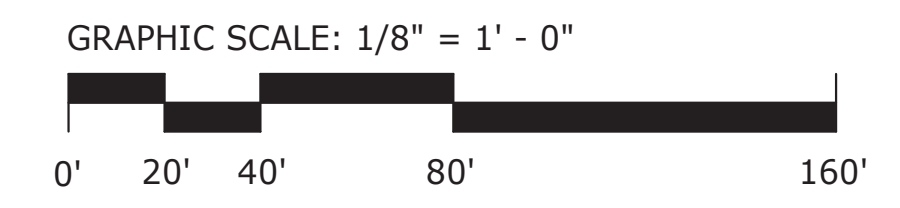
1. ARCHITECTURAL SITE PLAN FOR REFERENCE ONLY. REFER TO CIVIL/LANDSCAPE DRAWINGS FOR FULL SITE INFORMATION.

KEYNOTES

- S02 CONCRETE LOADING RAMP, SEE CIVIL
- S03 PAVER COURTYARD, SEE LANDSCAPE DWGS.
- S05 HVAC UNIT AT OUTDOOR MECHANICAL YARD, SEE HVAC DWGS.
- S16 DUMPSTER LOCATION
- S17 GRAVEL TRAILER PARKING
- S18 GRAVEL TRAILER LOOP
- S19 FARM EQUIPMENT WORKSHOP/SHED
- S20 RAW STORAGE BUILDING
- S22 RETAINING WALL, SEE CIVIL DWGS
- S23 ALTERNATE - GENERATOR AT OUTDOOR MECHANICAL YARD, SEE ELEC. DWGS
- S24 BUILDING TRANSFORMER LOCATION, SEE ELEC.
- S26 GRIT INTERCEPTOR, SEE CIVIL DWGS.

SITE PLAN LEGEND

GRAVEL



PLOT TIME: 5/10/2023 1:26:10 PM
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GENERAL NOTES:

- THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.
- THE WORK OUTLINED IN THE BUILDING CODE IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN THE BUILDING CODE.
- THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
- DISCREPANCIES BETWEEN DRAWINGS, BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, OR WITHIN THE SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER DURING THE BIDDING PROCESS IN TIME TO PERMIT CLARIFICATION BY ADDENDUM. IF INCONSISTENCIES, DISCREPANCIES OR CONTRADICTIONS IN THE CONTRACT DOCUMENTS ARE DISCOVERED AFTER THE CLOSE OF BIDDING QUESTIONS, THE CONTRACTOR MUST BE DEEMED BY SUBMITTAL OF THEIR BID, TO HAVE BID THE MOST COSTLY AS TO LABOR, MATERIALS, DURATION, SEQUENCE AND METHOD OF CONSTRUCTION TO PROVIDE THE WORK.
- PRIOR TO ISSUING THE STRUCTURAL DRAWINGS FOR ANY PURPOSE, AUTHORIZATION MUST BE OBTAINED FROM THE STRUCTURAL ENGINEER OF RECORD. WHEN AUTHORIZED, THE DOCUMENTS THAT ARE RELEASED MUST BE CLEARLY IDENTIFIED WITH THE AUTHORIZED PURPOSE AND MUST INCLUDE THE DATE OF RELEASE.
- DESIGN CRITERIA:

<u>CLASSIFICATION OF BUILDING</u>	
RISK CATEGORY (TEC)	III

<u>SUPER IMPOSED ROOF DEAD LOADS - UNIFORM:</u>	
1 1/2" INSULATION AND ROOF MEMBRANE	3 PSF
METAL DECK	2 PSF
CEILING	2 PSF
SPRINKLERS	3 PSF
DUCTS, LIGHTS, MISC. MECHANICAL	3 PSF

<u>SUPER IMPOSED FLOOR DEAD LOADS - UNIFORM:</u>	
FLOOR FINISH	3 PSF
CEILING	2 PSF
SPRINKLERS	3 PSF
DUCTS, LIGHTS, MISC. MECHANICAL	3 PSF
COLLATERAL	2 PSF

<u>LIVE LOADS - UNIFORM:</u>	
SLAB ON GRADE	100 PSF
MEZZANINE	150 PSF
ROOF	20 PSF

LIVE LOAD REDUCTION OF THE UNIFORMLY DISTRIBUTED FLOOR LIVE LOADS HAS BEEN UTILIZED.	
<u>LIVE LOADS - CONCENTRATED:</u>	
FLOOR	2,000#
ROOFS	300#

UNLESS OTHERWISE NOTED, CONCENTRATED LOADS ARE APPLIED UNIFORMLY OVER 2'-6" x 2'-6" AREA.

<u>SNOW LOADS:</u>	
GROUND SNOW LOAD	15 PSF
TEC SLOPED ROOF LOAD	16.5 PSF
TEC IMPORTANCE FACTOR (Is)	1.1
THERMAL FACTOR (Ct)	1.0
EXPOSURE FACTOR (Ce)	1.0
DRIFT SURCHARGE (Pd)	XX PSF

<u>WIND LOADS (TEC):</u>	
ULTIMATE DESIGN WIND SPEED (VULT)	120 MPH
NOMINAL DESIGN (VSD) WIND SPEED	93 MPH
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	±0.18
<u>COMPONENT AND CLADDING PRESSURES:</u>	
WALLS, ZONE 5 (10 SF)	26 PSF, -35 PSF
ROOF, ZONE 3 (10 SF)	16 PSF, -61 PSF
<u>ULTIMATE WIND BASE SHEARS (FOR MWFRS):</u>	
Vx	156 KIPS
Vy	105 KIPS

GENERAL NOTES CONT:

<u>SEISMIC LOADS (TEC):</u>			
SITE CLASSIFICATION		D	
SEISMIC DESIGN CATEGORY		C	
IMPORTANCE FACTOR (IE)		1.25	
<u>SPECTRAL RESPONSE ACCELERATIONS:</u>			
Ss	0.186	S1	0.088
Sms	0.298	Sml	0.211
Sps	0.198	Sdl	0.141
<u>ANALYSIS PROCEDURE</u> EQUIVALENT LATERAL FORCE LATERAL FORCE RESISTING SYSTEM			
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE			
RESPONSE MODIFICATION COEFFICIENT (R)			
SEISMIC RESPONSE COEFFICIENT (Cs)			
ULTIMATE SEISMIC BASE SHEAR (V)			
42 KIPS			

LATERAL DESIGN CONTROL
TEC CONTROLLING LATERAL LOADS WIND

FOUNDATION NOTES:

- FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF (ASSUMED).
- PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY (SPECIAL INSPECTOR) TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY (SPECIAL INSPECTOR) WHERE UNSATISFACTORY SOILS ARE PRESENT.
- NO UNBALANCED BACKFILLING MUST BE DONE AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.
- CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.
- CONCRETE MUST BE NORMAL WEIGHT (UNLESS OTHERWISE DENOTED AS LW (LIGHTWEIGHT)) AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
A. SLAB-ON-GRADE 3,500 PSI
B. WALLS 4,000 PSI
C. FOUNDATIONS AND CONCRETE NOT OTHERWISE NOTED 3,000 PSI
- REINFORCING MATERIALS MUST BE AS FOLLOWS:
A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
B. WELDED REINFORCING BARS - ASTM A706, GRADE 60.
C. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.
- ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- CONCRETE COVER TO REINFORCING STEEL MUST CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.
- LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.

CONCRETE MASONRY NOTES:

- CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) 530.
- CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND MUST BE MADE WITH LIGHTWEIGHT AGGREGATE. MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY UNITS MUST BE 2,000 PSI AT 28 DAYS.
- COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, fm, MUST BE 2,000 PSI AT 28 DAYS.
- MORTAR MUST BE TYPE 'M' OR 'S' AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.
- GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:
A. PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.
B. PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI, WITH AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.
- REINFORCING STEEL MUST COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.
- ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.

CONCRETE MASONRY NOTES CONT:

- ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.
- ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE "TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS."
- PROVIDE REINFORCING BARS OF THE GIVEN SIZE AND SPACING SHOWN. LAP CONTINUOUS REINFORCING STEEL 64 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- PROVIDE ONE VERTICAL BAR EACH SIDE OF ALL OPENINGS AND CONTROL JOINTS, AND AT CORNERS AND INTERSECTIONS OF ALL MASONRY WALLS, BOTH BEARING AND NON-BEARING WALLS. SHOW CONTROL JOINT LOCATIONS ON THE REINFORCING STEEL SHOP DRAWINGS.
- ALL NON-BEARING MASONRY WALLS MUST BE REINFORCED WITH #4 VERTICAL BARS AT 32 INCHES ON CENTER, TYPICAL UNLESS OTHERWISE NOTED.
- PROVIDE REINFORCING STEEL DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM THE SUPPORTING STRUCTURE. DOWELS MUST HAVE STANDARD ACI HOOKS. LAP LENGTH FOR DOWELS FROM FOUNDATION NOT OTHERWISE NOTED MAY BE 36 X BAR DIAMETER.
- PROVIDE STANDARD 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON CENTER AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.
- PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.
- STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
A. STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A36, Fy = 36 KSI
B. STRUCTURAL STEEL W-SHAPES - ASTM A992, Fy = 50 KSI
C. HOLLOW STRUCTURAL SECTIONS (HSS):
a. SQUARE AND RECTANGULAR - ASTM A500, GRADE C, Fy = 50 KSI
b. ROUND - ASTM A500, GRADE C, Fy = 46 KSI
D. ANCHOR RODS - ASTM F1554, GRADE 36
E. HIGH STRENGTH BOLTS - ASTM A325 (TYPICAL UON)
F. WASHERS - ASTM F436
G. NUTS - ASTM A563
- UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE.
- STRUCTURAL STEEL FRAME IS CONSIDERED AS UNRESTRAINED FOR FIRE PROTECTION PURPOSES.
- UNLESS OTHERWISE NOTED, BEAM CONNECTIONS MUST BE AISC "SIMPLE SHEAR CONNECTIONS" WITH ASTM A325 BOLTS DESIGNED FOR ONE HALF THE MAXIMUM TOTAL UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS GIVEN IN TABLE 3-6 OF THE "STEEL CONSTRUCTION MANUAL."

STRUCTURAL STEEL NOTES CONT:

- HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING EXCEPT FOR THE FOLLOWING CONNECTIONS WHICH MUST BE FULLY PRETENSIONED:
A. BOLTED CONNECTIONS USING NON-STANDARD HOLES.
- REFER TO THE SPECIFICATIONS FOR REQUIREMENTS OF "DELEGATED DESIGN" CONNECTIONS.
- FOR STRUCTURAL STEEL CONNECTIONS INDICATED AS "DELEGATED DESIGN", INCLUDE STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THEIR PREPARATION. IN ADDITION, THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS. A REVIEW LETTER, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED.
- DELEGATED DESIGN CONNECTIONS ARE AS FOLLOWS:
A. LINTEL AND WIND GIRTS
- HIGH STRENGTH BOLTS MUST BE FULLY PRETENSIONED USING LOAD INDICATOR WASHERS OR TENSION CONTROL "TWIST OFF" BOLTS.
- PROVIDE ANGLE FRAMING AROUND OPENINGS LARGER THAN 6 INCHES IN ANY DIMENSION (INCLUDING ROOF DRAINS) TO SUPPORT STEEL DECK, TYPICAL UNLESS OTHERWISE NOTED OR DETAILED AS FOLLOWS:

JOIST/BEAM SPACING	ANGLE SIZE
TO 6'-0"	L3x3x1/4
6'-1" TO 8'-0"	[-----]
8'-1" TO 10'-0"	[-----]
10'-1" TO 12'-0"	[-----]

- WELDING MUST BE IN ACCORDANCE WITH AWS D1.1. "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.
- COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.
- STRUCTURAL STEEL SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST NOT BE PRIME PAINTED.
- HOT-DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:
A. ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR WALLS.
B. LINTELS AND LINTEL ASSEMBLIES SUPPORTING MASONRY IN EXTERIOR WALLS.
C. ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION.
D. ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.

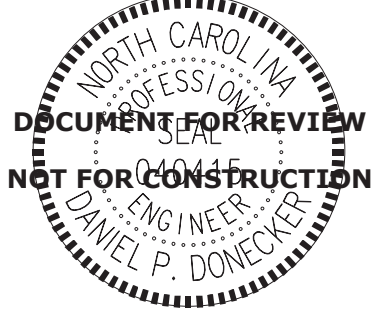


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SHEET
GENERAL NOTES

S001

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ROUGH CARPENTRY NOTES:

- ROUGH CARPENTRY MUST BE IN ACCORDANCE WITH THE AMERICAN WOOD COUNCIL (AWC) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."
- UNLESS OTHERWISE NOTED, USE 'COMMON' NAILS AND ALL NAILING MUST CONFORM TO THE "FASTENING SCHEDULE" TABLE 2304.10.1 OF THE BUILDING CODE.
- WOOD FRAMING MEMBERS MUST COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND THE FOLLOWING REQUIREMENTS:
 - MOISTURE CONTENT - SEASONED, WITH 15 PERCENT MAXIMUM MOISTURE CONTENT.
 - GRADE - NO. 2, OR BETTER UNLESS OTHERWISE NOTED.
 - SPECIES - SPRUCE-PINE-FIR (SOUTH) UNDER WWSA RULES.
- WOOD STRUCTURAL PANELS (WSP) MUST COMPLY WITH PS 1 "U.S. PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" FOR PLYWOOD CONSTRUCTION PANELS AND THE FOLLOWING REQUIREMENTS:
 - ROOF SHEATHING: 9/16" INCH, APA RATED SHEATHING, EXTERIOR EXPOSURE DURABILITY CLASSIFICATION. PROVIDE TONGUE-AND-GROOVE EDGES OR USE "PLY-CLIPS" AT MID-SPAN BETWEEN EACH SUPPORT.
- ALL WOOD FRAMING MEMBERS PERMANENTLY EXPOSED TO THE WEATHER AND ALL SILL PLATES IN CONTACT WITH CONCRETE MUST BE PRESERVATIVE-TREATED.
- STEEL PLATE CONNECTORS MUST COMPLY WITH ASTM A 36 SPECIFICATIONS (Fy= 36 KSI). BOLTS CONNECTING WOOD MEMBERS MUST COMPLY WITH ASTM A307 COMMON STEEL BOLTS.
- METAL FRAMING ANCHORS, HOLD DOWNS, HURRICANE TIES, HANGERS, ETC. MUST COMPLY WITH ASTM A653 AND BE CAPABLE OF SUPPORTING THE REACTIONS SHOWN. WHERE PRODUCTS OF A SPECIFIC MANUFACTURER ARE SHOWN, EQUAL PRODUCTS OF ANOTHER MANUFACTURER MAY BE USED IF APPROVED.
- PROVIDE BRIDGING FOR ALL ROOF RAFTERS. MAXIMUM SPACING MUST BE 8'-0", UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED, ATTACH BLOCKING AND NAILERS TO STEEL FRAMING USING 3/16 INCH DIAMETER POWDER ACTUATED FASTENERS AT 24 INCHES ON CENTER OR 1/2 INCH DIAMETER BOLTS AT 48 INCHES ON CENTER. STAGGER FASTENERS TO ALTERNATE SIDES OF BEAM WEB.
- WHERE MULTIPLE FRAMING MEMBERS ARE INDICATED, SCAB CONTINGENT MEMBERS TOGETHER WITH 16d NAILS AT 12 INCHES ON CENTER, ALTERNATING AT 2 INCHES FROM EACH EDGE.
- ALL CONNECTION HARDWARE IN CONTACT WITH PRESERVATIVE TREATED WOOD MUST BE HOT-DIP GALVANIZED COATED.
- POWDER ACTUATED FASTENERS (PAF) MUST HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS UNLESS OTHERWISE NOTED:

A. STEEL:	SHEAR = 600 LBS
	TENSION = 250 LBS
B. CONCRETE:	SHEAR = 260 LBS
	TENSION = 255 LBS
- LAMINATED VEENER LUMBER (LVL) SHALL BE WEYERHAEUSER OR EQUAL AND CONFORM TO THE FOLLOWING MINIMUM STANDARDS

Fb	2,600 PSI
Fc,PERP	750 PSI
Fv	285 PSI
E bend	2.0 E 6 PSI

METAL BUILDING SYSTEM NOTES:

- METAL BUILDING SYSTEM MUST BE IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) "DESIGN PRACTICES MANUAL."
- SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A [VIRGINIA] [NORTH CAROLINA] LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF METAL BUILDING SYSTEMS. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE A SUMMARY OF CONTROLLING LOAD CASE FOR EACH LOCATION.
- METAL BUILDING SYSTEMS MUST BE DESIGNED FOR THE LOAD INDICATED IN THE GENERAL NOTES AND AS FOLLOWS:
 - DEAD LOADS.....WEIGHT OF ALL SUPPORTED EQUIPMENT, PLUS WEIGHT OF THE BUILDING.
 - COLLATERAL LOADS.....5 PSF
- THE CONTRACTOR MUST BE RESPONSIBLE FOR THE COORDINATION AND COSTS ASSOCIATED WITH A CONTRACTOR INITIATED CHANGE IN BUILDING MODEL OR MANUFACTURER, INCLUDING CONSTRUCTION COSTS AND RE-ENGINEERING COSTS.
- METAL BUILDING SYSTEM HAS BEEN DESIGN BY OTHERS.
- THE DESIGN REACTIONS USED ARE AS FOLLOWS:

LOAD CASE	GRID	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

POST-INSTALLED ANCHOR NOTES:

- ALL POST INSTALLED ANCHORS INDICATED ON THE DRAWINGS ARE BY HILTI, INC. AND MUST BE CONSIDERED THE BASIS OF DESIGN PRODUCT. WHERE NOT EXPLICITLY INDICATED IN THE DRAWINGS, THE FOLLOWING ANCHORS/ADHESIVES MUST BE USED:
 - ANCHORAGE TO CONCRETE
 - ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC 40-U) WITH STEEL THREADED ROD PER ICC ESR-3187.
 - SCREW ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR-3027.
 - REBAR DOWELING INTO CONCRETE
 - ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC 40-U) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
 - ANCHORAGE TO SOLID GROUTED MASONRY
 - ADHESIVE ANCHORS USE:
 - HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC PENDING).
 - STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD.
 - HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR 3056.
 - ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY
 - ADHESIVE ANCHORS USE:
 - HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM PERICCESR-3342.
 - STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.
 - THE APPROPRIATE SIZE SCREEN TUBE MUST BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.
 - ALTERNATE POST INSTALLED ANCHOR PRODUCTS MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW AND POSSIBLE APPROVAL. ALL SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE. ALTERNATE PRODUCTS MAY REQUIRE MODIFICATIONS TO ANCHOR DIAMETER, SPACING, AND EMBEDMENT.
 - INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
 - THE CONTRACTOR MUST ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
 - ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
 - EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN OR GPR.
 - ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTIONS TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	HVY	HEAVY
ARCH	ARCHITECT	INT	INTERIOR
BD	BAR DIAMETER	JBE	JOIST BEARING ELEVATION
BF	BRACED FRAME	JT	JOINT
BEJ	BUILDING EXPANSION JOINT	KCJ	KEYED CONSTRUCTION JOINT
BLDG	BUILDING	L	LOW
BM	BEAM	LLH	LONG LEG HORIZONTAL
BOD	BOTTOM OF DECK	LLV	LONG LEG VERTICAL
BOT, B	BOTTOM	LSH	LONG SIDE HORIZONTAL
BRG	BEARING	LSV	LONG SIDE VERTICAL
BTWN	BETWEEN	LTWT	LIGHTWEIGHT
C TO C	CENTER TO CENTER	LWC	LIGHTWEIGHT CONCRETE
CFMF	COLD-FORMED METAL FRAMING	MAS	MASONRY
		MAX	MAXIMUM
CJ	CONTROL JOINT	MECH	MECHANICAL
CL	CENTERLINE	MF	MOMENT FRAME
CLR	CLEAR	MFR	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MID	MIDDLE
COL	COLUMN	MIN	MINIMUM
CONC	CONCRETE	MOD	MODIFY
CONN	CONNECTION	MOS	MIDDEPTH OF SLAB
CONSTR	CONSTRUCTION	NOM	NOMINAL
CONT	CONTINUOUS	NTS	NOT TO SCALE
COORD	COORDINATE	OC	ON CENTER
CTR	CENTER	OPH	OPPOSITE HAND
CTR'D	CENTERED	OPNG	OPENING
CW	CURTAIN WALL	PAF	POWDER ACTUATED FASTENER
DBL	DOUBLE	PAR	PARALLEL
DC	DIAPHRAGM CHORD	PC	PIECE
DCJ	DOWELED CONSTRUCTION JOINT	PEMB	PRE-ENGINEERED METAL BUILDING
DIA, Ø	DIAMETER		
DJ	DOUBLE JOIST		
DWGS	DRAWINGS	PEN	PENETRATE, PENETRATION
EA	EACH	PERP	PERPENDICULAR
EF	EACH FACE	PL	PLATE
EJ	EXPANSION JOINT	R	RADIUS
EL	ELEVATION	REF	REFERENCE, REFER TO
ELEV	ELEVATOR	REINF	REINFORCE, REINFORCED, REINFORCING
EMBED	EMBEDMENT		
EOD	EDGE OF DECK	REQD	REQUIRED
EOS	EDGE OF SLAB	REQM'S	REQUIREMENTS
EQ	EQUAL	SCHED	SCHEDULE
EW	EACH WAY	SF	STEPPED FOOTING
EXIST	EXISTING	SGB	STEPPED GRADE BEAM
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SJ	SAWED JOINT
FD	FLOOR DRAIN	SL	SLOPE
FDN	FOUNDATION	SOG	SLAB-ON-GRADE
FO	FACE OF	SPF	SIDEPLATE FRAME
FF EL	FINISHED FLOOR ELEVATION	STD	STANDARD
		TBE	TRUSS BEARING ELEVATION
FIN	FINISH	T&B	TOP & BOTTOM
FIN FLR	FINISHED FLOOR	T&G	TONGUE AND GROOVE
FOB	FACE OF BUILDING	THK	THICKNESS
FOC	FACE OF CONCRETE	TOC	TOP OF CONCRETE
FOM	FACE OF MASONRY	TOF	TOP OF FOOTING
FOS	FACE OF SLAB/ STUD	TOM	TOP OF MASONRY
FRMG	FRAMING	TOCP	TOP OF CONCRETE PEDESTAL
FTG	FOOTING	TOS	TOP OF STEEL
FV, ±	FIELD VERIFY	TS	THICKENED SLAB
GALV	GALVANIZED	TYP	TYPICAL
GEN	GENERAL	UON	UNLESS OTHERWISE NOTED
GR BM	GRADE BEAM	VERT	VERTICAL
H	HIGH	W	WITH
HK	HOOK	WP	WORKING POINT
HORIZ	HORIZONTAL	WSP	WOOD STRUCTURAL PANEL(S)
HSS	HOLLOW STRUCTURAL SECTION	WWR	WELDED WIRE REINFORCING
HT	HEIGHT		

PLAN LEGEND:

TOS = +X'-X"	=	TOP OF STEEL ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"
TOM = +X'-X"	=	TOP OF MASONRY ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"
TBE = +X'-X"	=	TRUSS BEARING ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"
	=	FLOOR / ROOF OPENING
	=	TOP OF FOOTING ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"
	=	TOP OF SLAB ELEVATION MEASURED FROM REFERENCED FINISHED FIRST FLOOR ELEVATION = 0'-0"
	=	CHANGE IN ELEVATION - REF ARCH DWGS FOR DIMENSIONS
	=	DIRECTION OF SLOPE
	=	PLAN KEY NOTE MARK
	=	COLUMN GRID MARK
	=	SECTION/DETAIL NUMBER/LETTER
	=	SECTION/DETAIL MARK
	=	SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN
	=	MOMENT CONNECTION
BP-X	=	BEARING PLATE MARK
WFX	=	WALL FOOTING MARK
CFX	=	COLUMN FOOTING MARK
±	=	FIELD VERIFY
	=	SLAB MARK / SPAN DIRECTION

BEAM SIZE: W16x26 (36) [2'] 35k = COMPOSITE BEAM NOTATION

NUMBER OF HEADED STUDS: []

CAMBER: []

REACTION (KIPS): EA END UON



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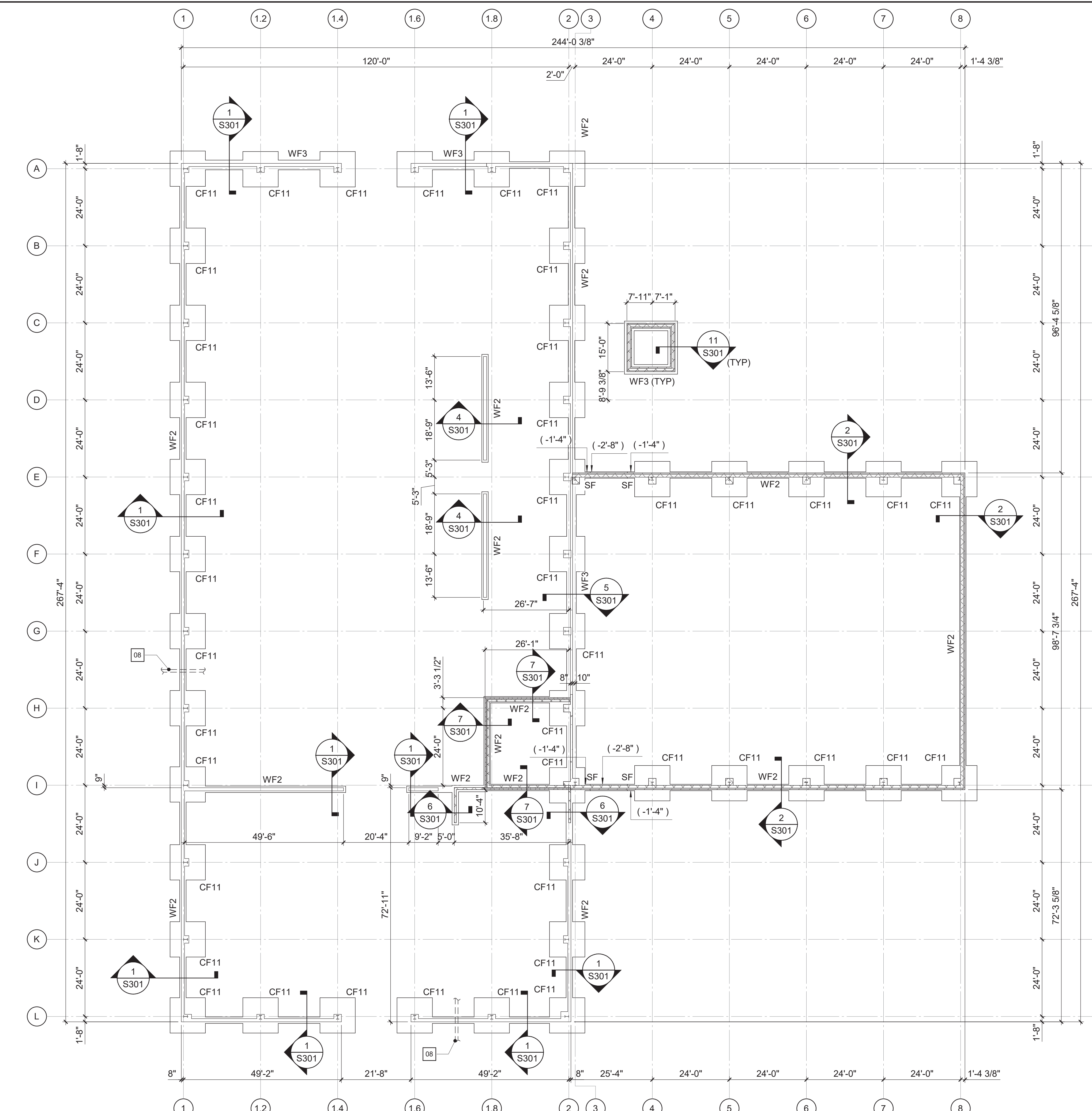
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SHEET
GENERAL NOTES

S002

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FOUNDATION / SLAB PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 839.90'. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. TOP OF ALL COLUMN AND WALL FOOTINGS MUST BE AT THE FOLLOWING ELEVATIONS UNLESS OTHERWISE NOTED ON PLAN. EXTERIOR COLUMN AND WALL FOOTINGS -1'-4"
- D. NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR MUST COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT HIS/HER OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "UTILITY SLEEVE DETAIL".
- E. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 6 INCHES BEYOND ENDS OF WALLS.
- F. NOT ALL SITE WALLS ARE NOT SHOWN ON PLAN. CONTRACTOR MUST COORDINATE CIVIL AND LANDSCAPE DRAWINGS FOR SITE WALL INFORMATION.
- G. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.

Key Notes

- 08 UTILITY PIPE BELOW FOOTING. REFER TO TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS. REFER TO MEP DRAWINGS FOR EXACT PIPE LOCATION.

WALL FOOTING SCHEDULE					
MARK	SIZE		REINFORCING		REMARKS
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE	
WF2	2'-0"	1'-0"	(3) #4 BOT	#4 AT 24" OC BOT	-
WF3	3'-0"	1'-0"	(4) #5 BOT	#5 AT 24" OC BOT	-
WF8	8'-0"	1'-6"	(8) #6 T&B	#6 AT 12" OC T&B	-
WF10	10'-0"	1'-6"	(10) #6 T&B	#6 AT 12" OC T&B	-

COLUMN FOOTING SCHEDULE						
MARK	SIZE			REINFORCING		REMARKS
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP	
CF5	5'-0"	5'-0"	1'-2"	(6) #5 EW	(6) #5 EW	-
CF11	11'-0"	11'-0"	2'-6"	(14) #6 EW	(14) #6 EW	-

1 FOUNDATION PLAN
1/16" = 1'-0"



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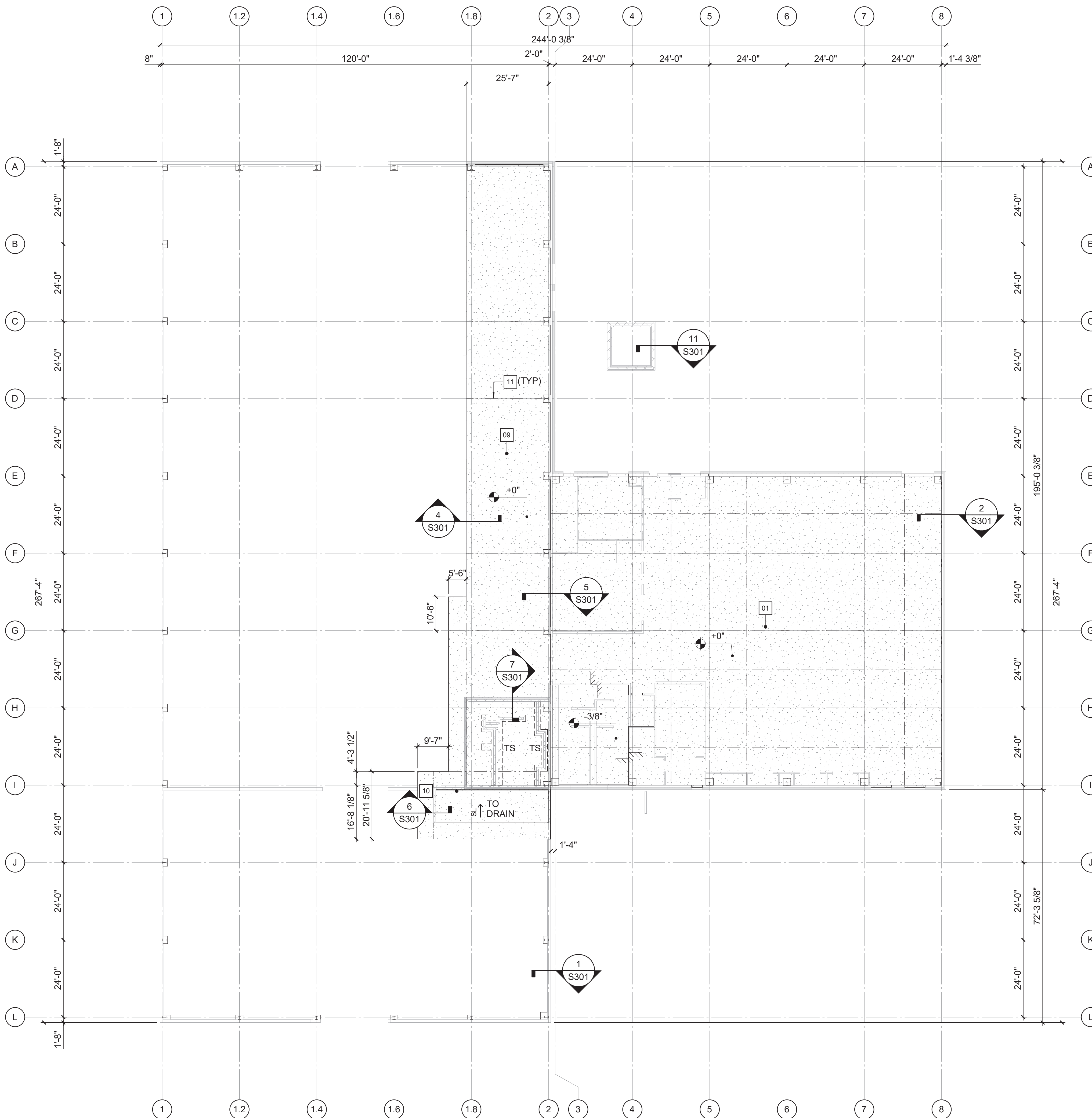


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SHEET
FOUNDATION PLAN

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FOUNDATION / SLAB PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 839.90'. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. TOP OF ALL COLUMN AND WALL FOOTINGS MUST BE AT THE FOLLOWING ELEVATIONS UNLESS OTHERWISE NOTED ON PLAN. EXTERIOR COLUMN AND WALL FOOTINGS -1'-4"
- D. NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR MUST COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT HIS/HER OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "UTILITY SLEEVE DETAIL".
- E. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 6 INCHES BEYOND ENDS OF WALLS.
- F. NOT ALL SITE WALLS ARE NOT SHOWN ON PLAN. CONTRACTOR MUST COORDINATE CIVIL AND LANDSCAPE DRAWINGS FOR SITE WALL INFORMATION.
- G. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.

Key Notes

- 01 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6 W2.1xW2.1 WELDED WIRE REINFORCING PLACED 1-1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 09 6" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6 W2.1xW2.1 WELDED WIRE REINFORCING PLACED 2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 10 TRENCH DRAIN. REFER TO TYPICAL TRENCH DRAIN DETAIL AND TO MEP DRAWINGS FOR EXACT DRAIN LOCATION.
- 11 SLAB-ON-GRADE JOINT. REFERENCE FOUNDATION / SLAB PLAN NOTES AND TYPICAL DETAILS.

1 SLAB ON GRADE PLAN
1/16" = 1'-0"



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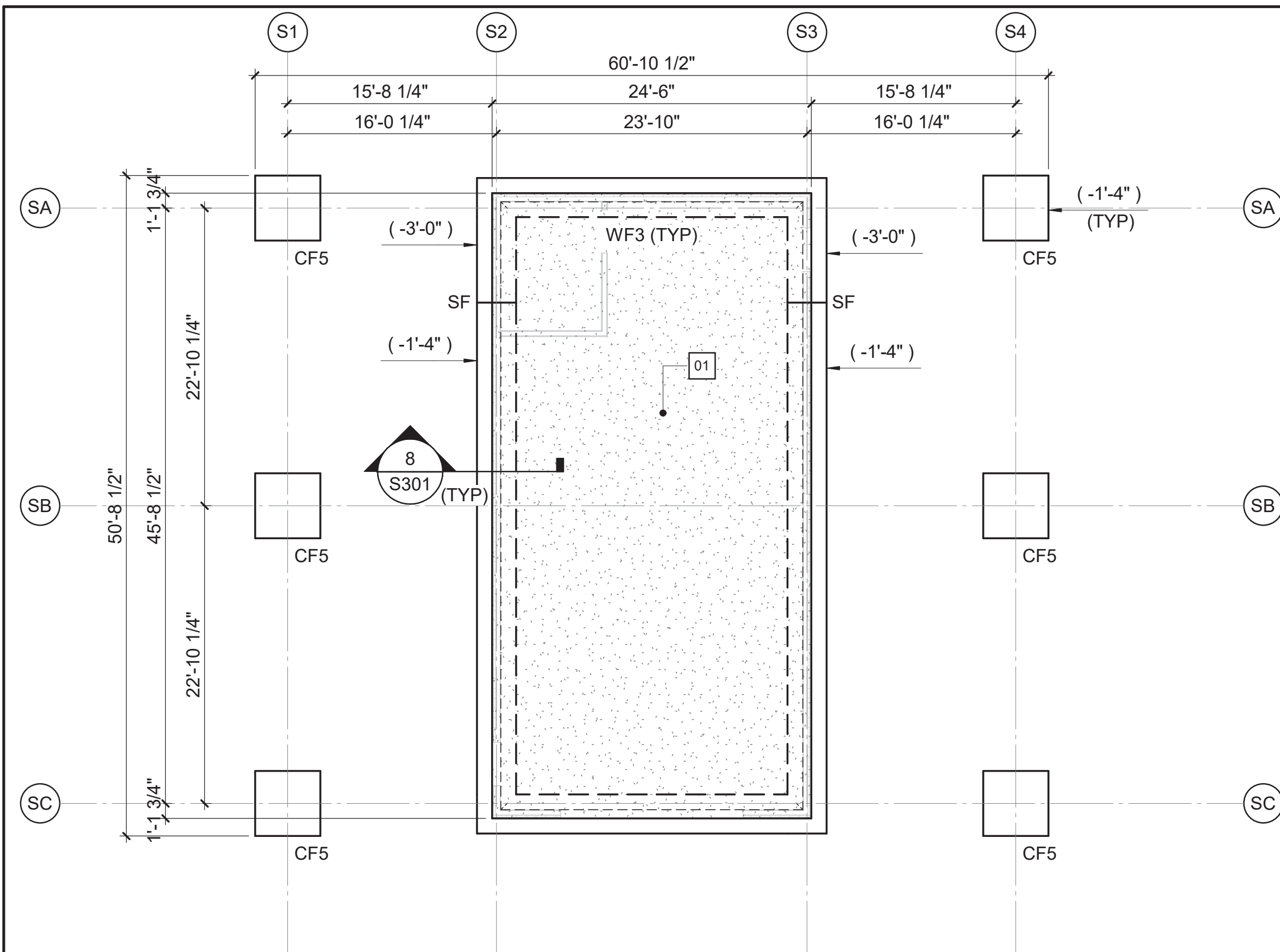


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SHEET
SLAB PLAN

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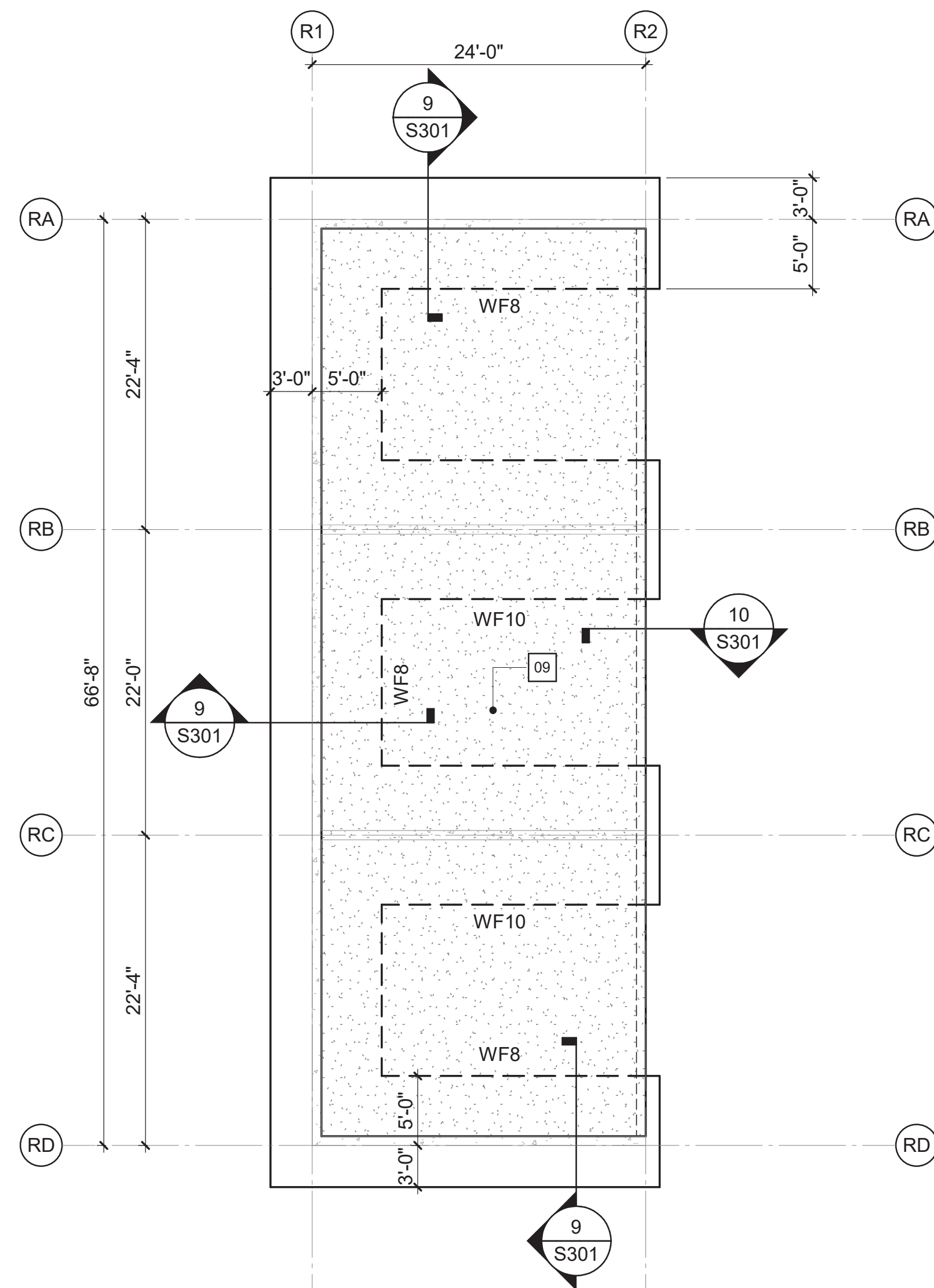
1 PEMB SHED
1/8" = 1'-0"

WALL FOOTING SCHEDULE					
MARK	SIZE		REINFORCING		REMARKS
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE	
WF2	2' - 0"	1'-0"	(3) #4 BOT	#4 AT 24" OC BOT	-
WF3	3' - 0"	1'-0"	(4) #5 BOT	#5 AT 24" OC BOT	-
WF8	8' - 0"	1'-6"	(8) #6 T&B	#6 AT 12" OC T&B	-
WF10	10' - 0"	1'-6"	(10) #6 T&B	#6 AT 12" OC T&B	-

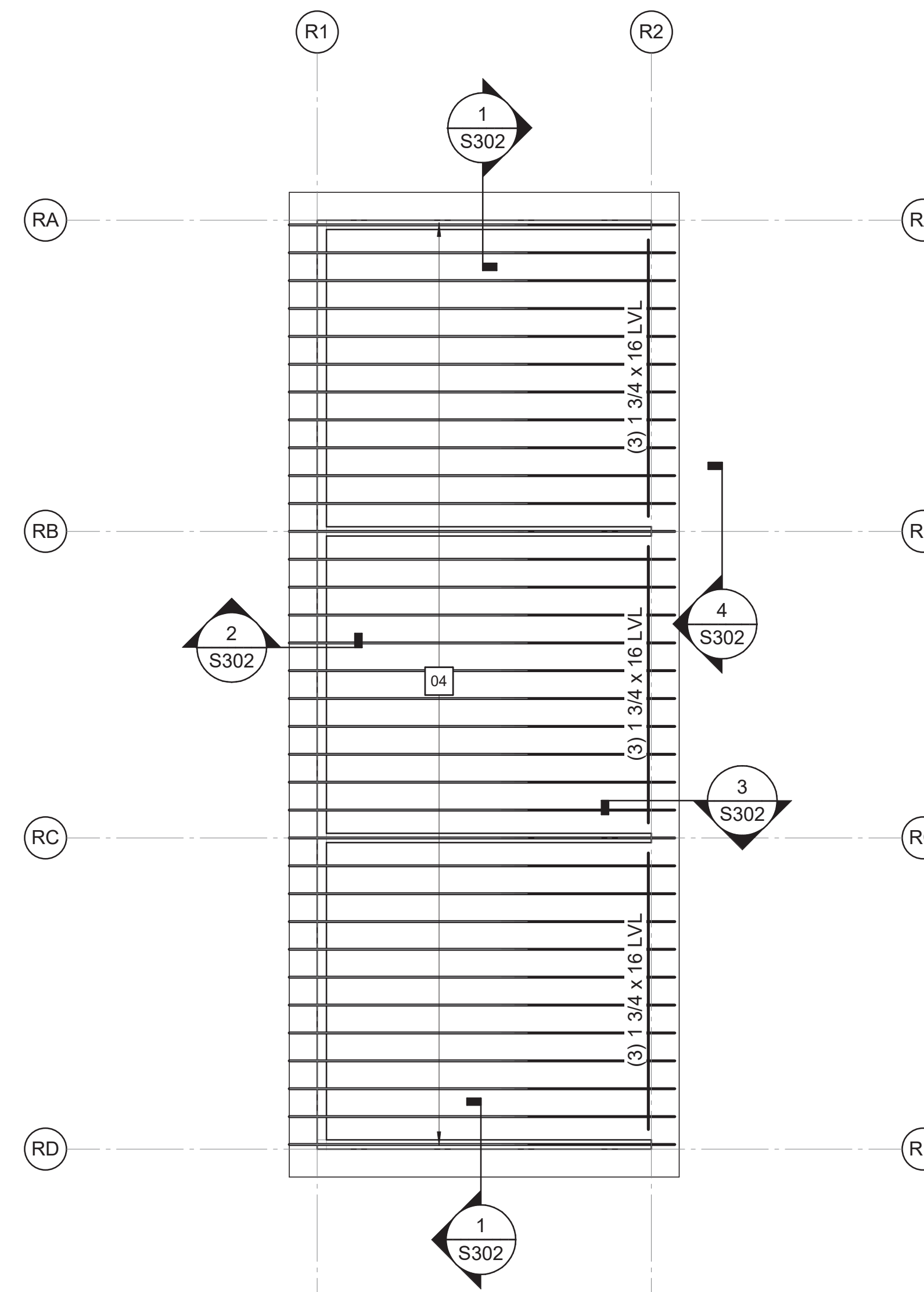
COLUMN FOOTING SCHEDULE						
MARK	SIZE			REINFORCING		REMARKS
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP	
CF5	5' - 0"	5' - 0"	1'-2"	(6) #5 EW	(6) #5 EW	-
CF11	11' - 0"	11' - 0"	2'-6"	(14) #8 EW	(14) #6 EW	-

FOUNDATION / SLAB PLAN NOTES

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2 FOUNDATION AND SLAB PLAN - RAW STORAGE BUILDING
1/8" = 1'-0"



3 FRAMING PLAN - RAW STORAGE BUILDING
1/8" = 1'-0"

Key Notes

- 01 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6 W2.1xW2.1 WELDED WIRE REINFORCING PLACED 1-1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 04 WOOD TRUSS AT 24" OC MAX.
- 09 6" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6 W2.1xW2.1 WELDED WIRE REINFORCING PLACED 2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT

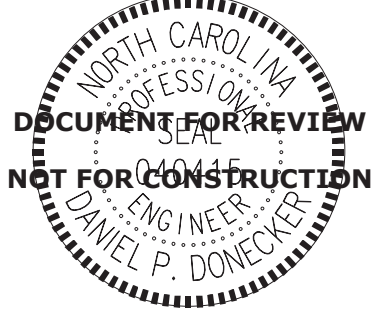


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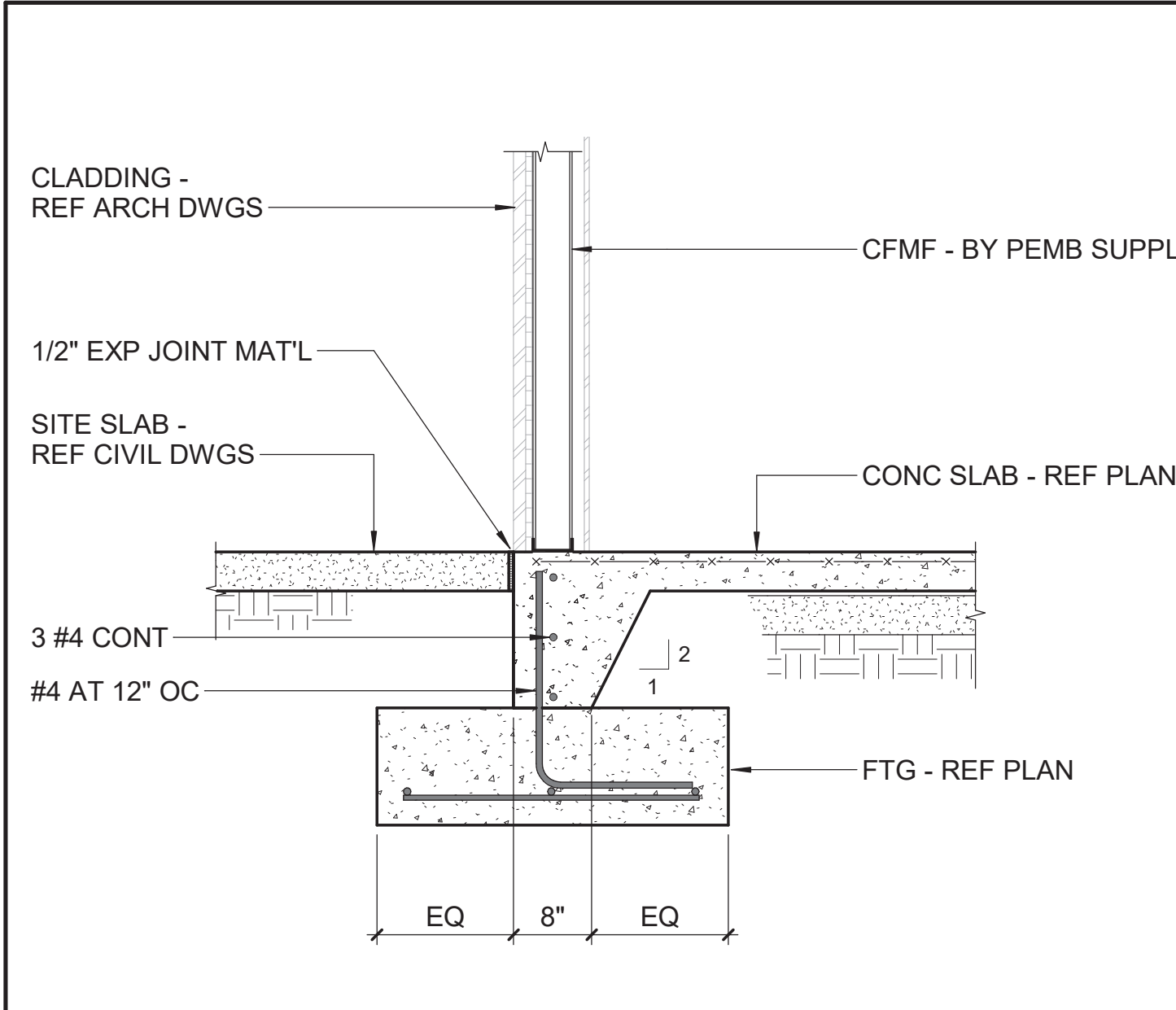


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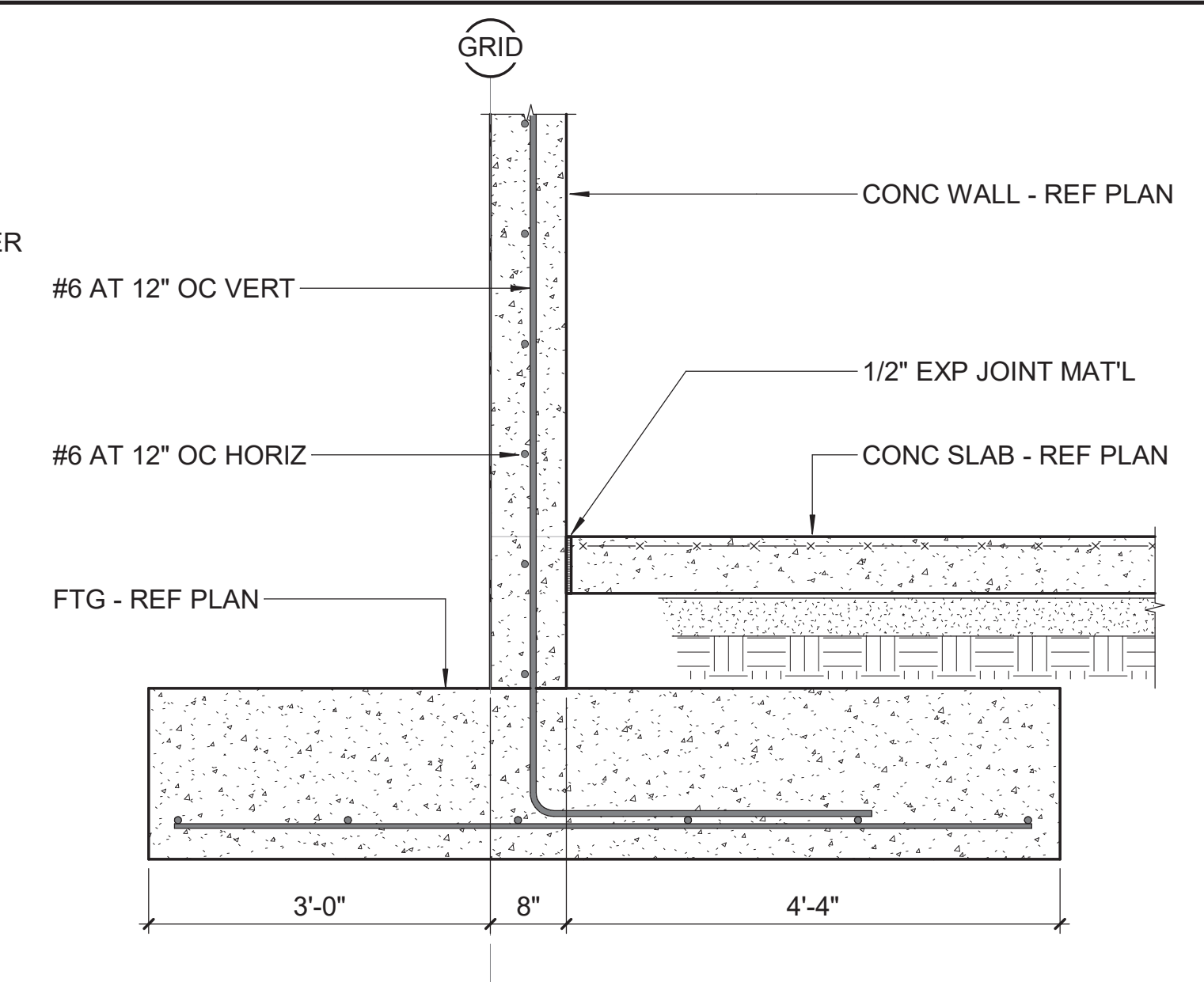
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PROJECT STATUS
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RAW STORAGE & PEMB SHED

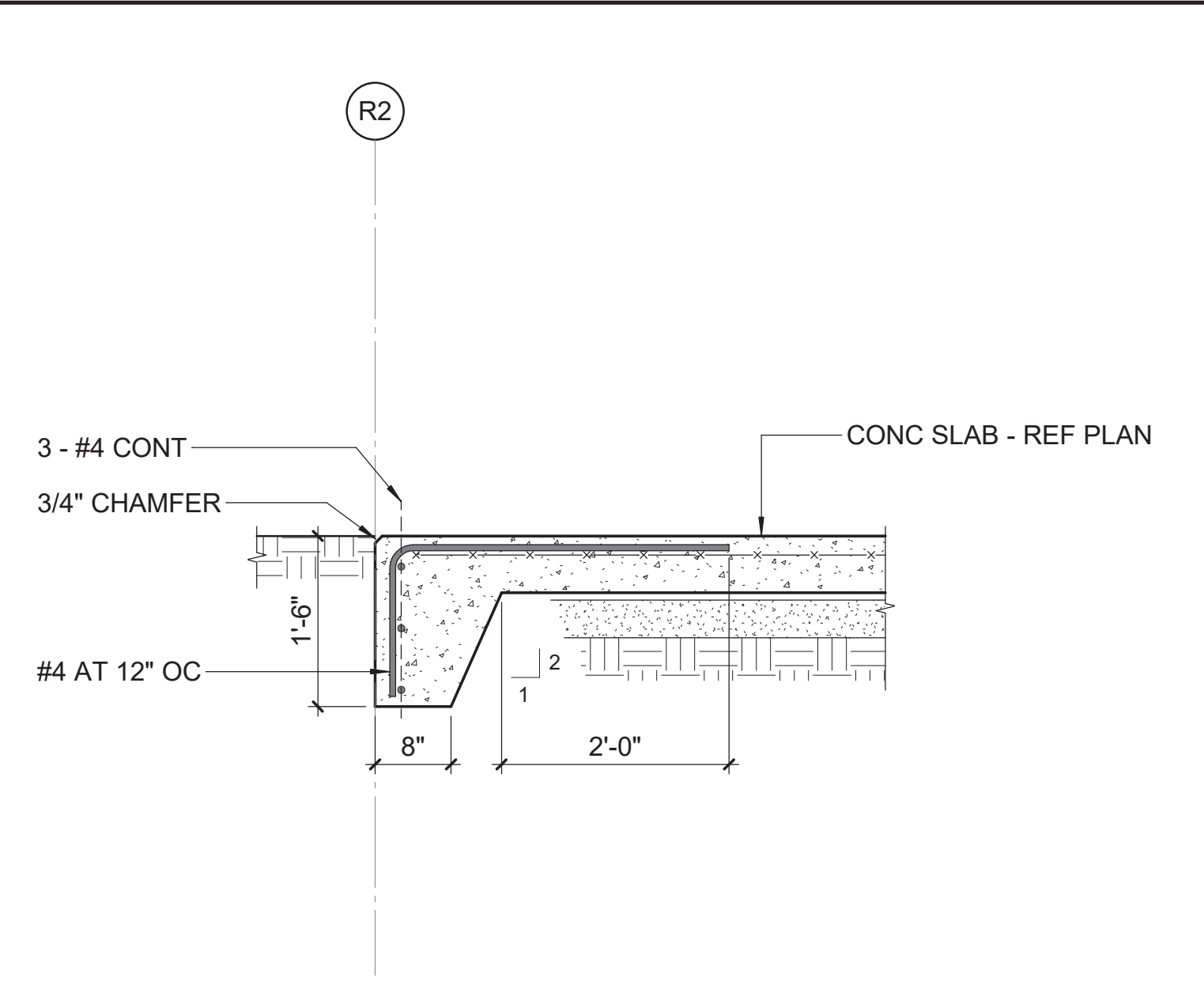
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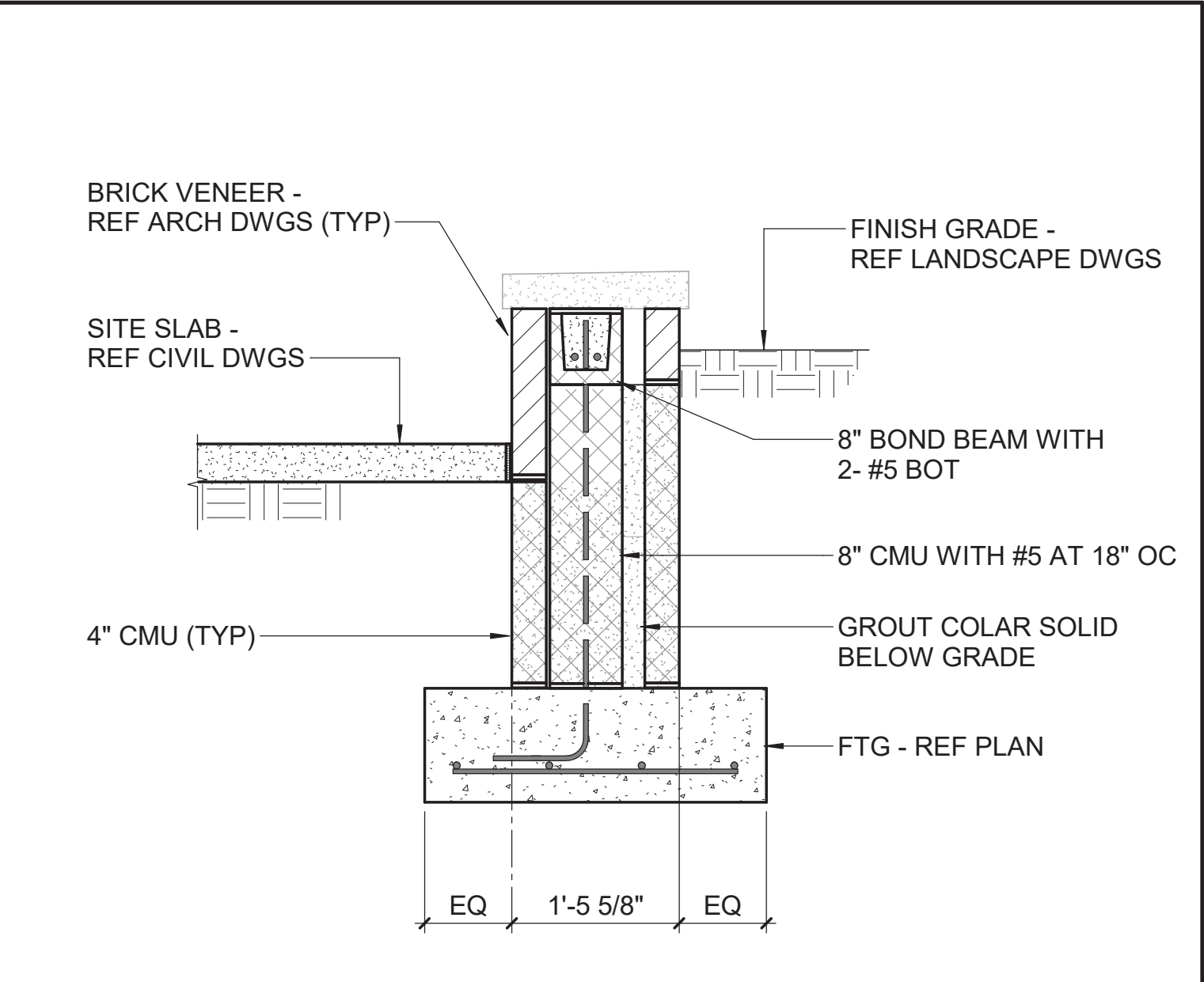
8 SECTION
3/4" = 1'-0"



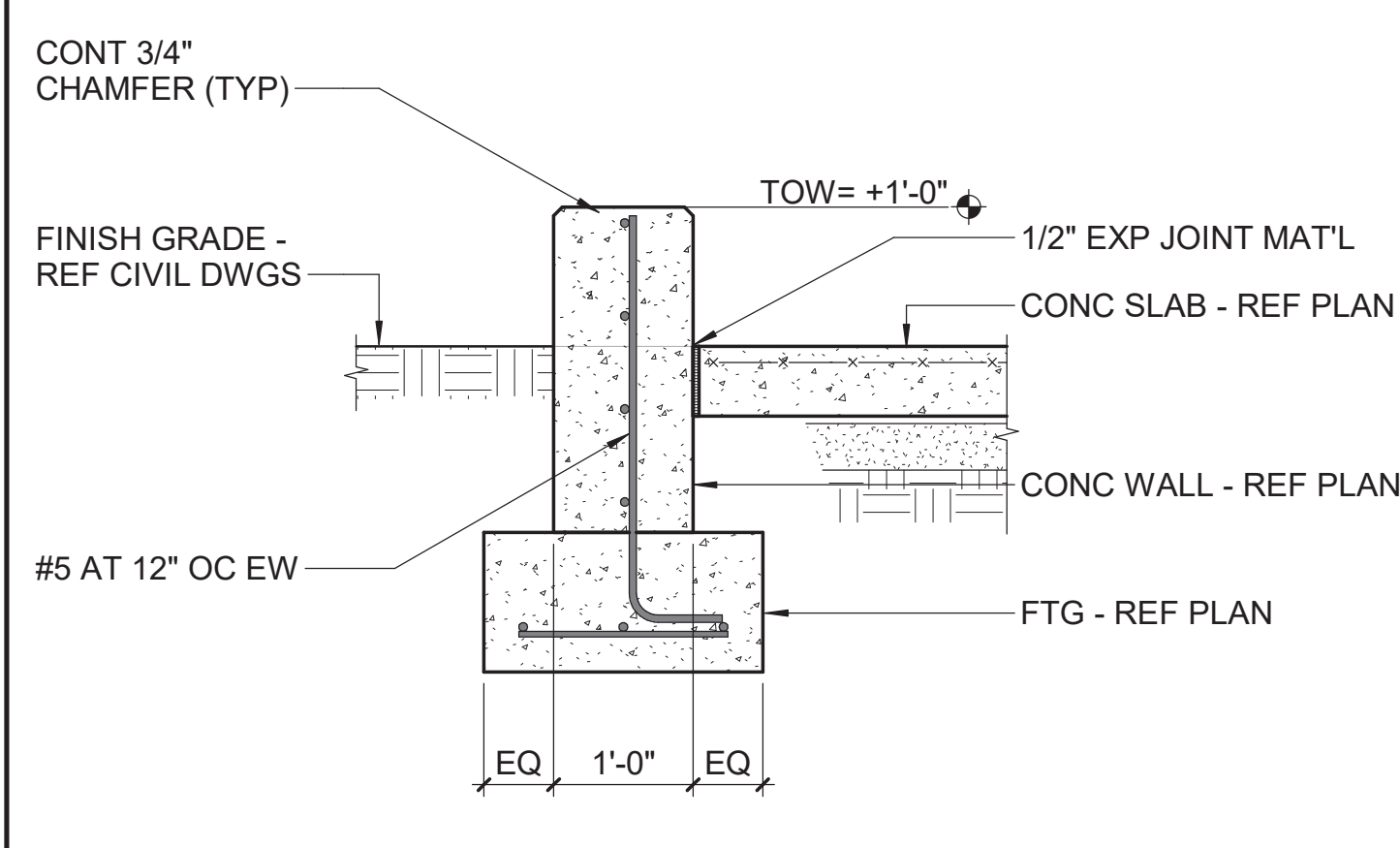
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3/4" = 1'-0"



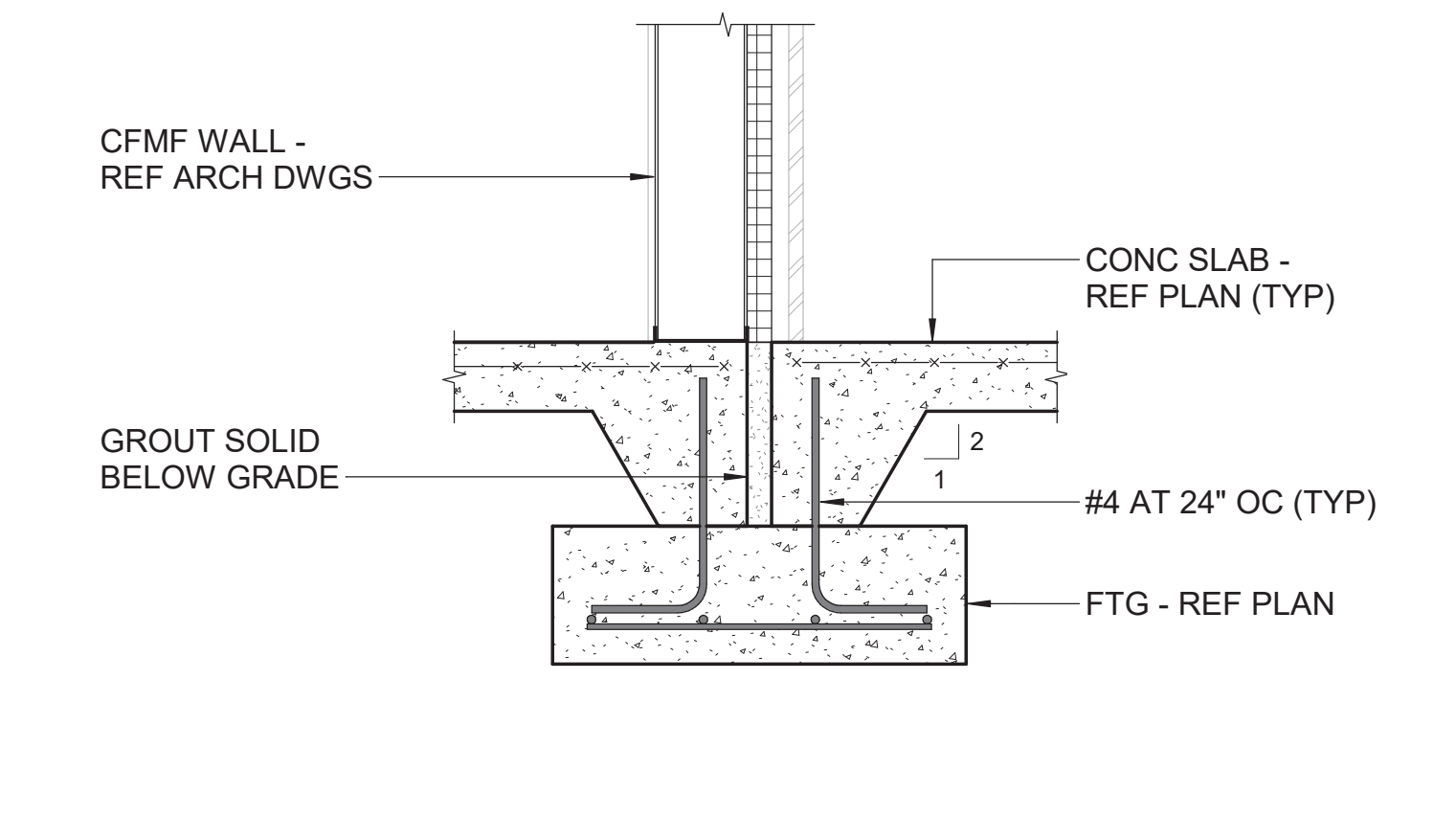
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3/4" = 1'-0"



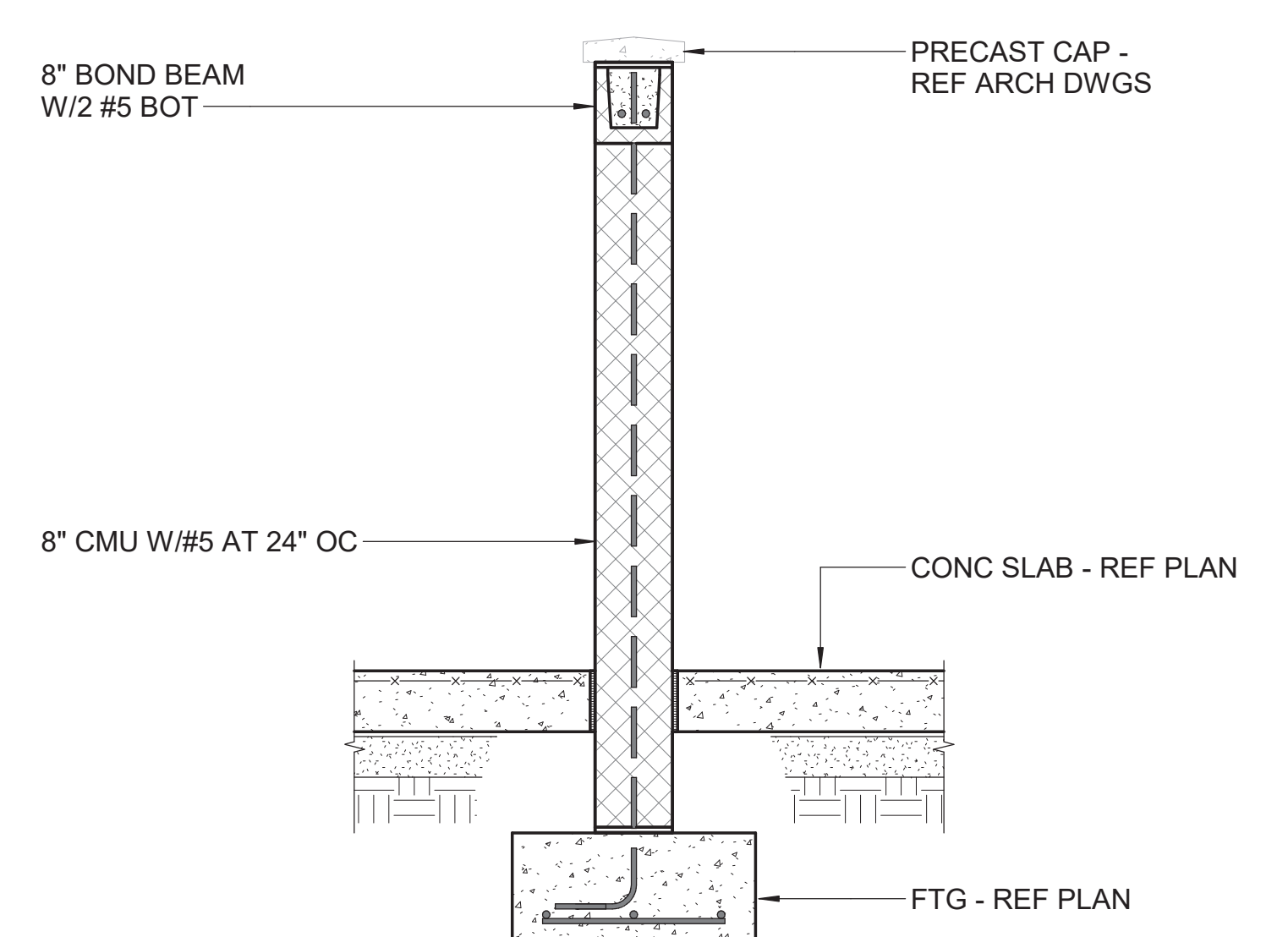
11 SECTION
3/4" = 1'-0"



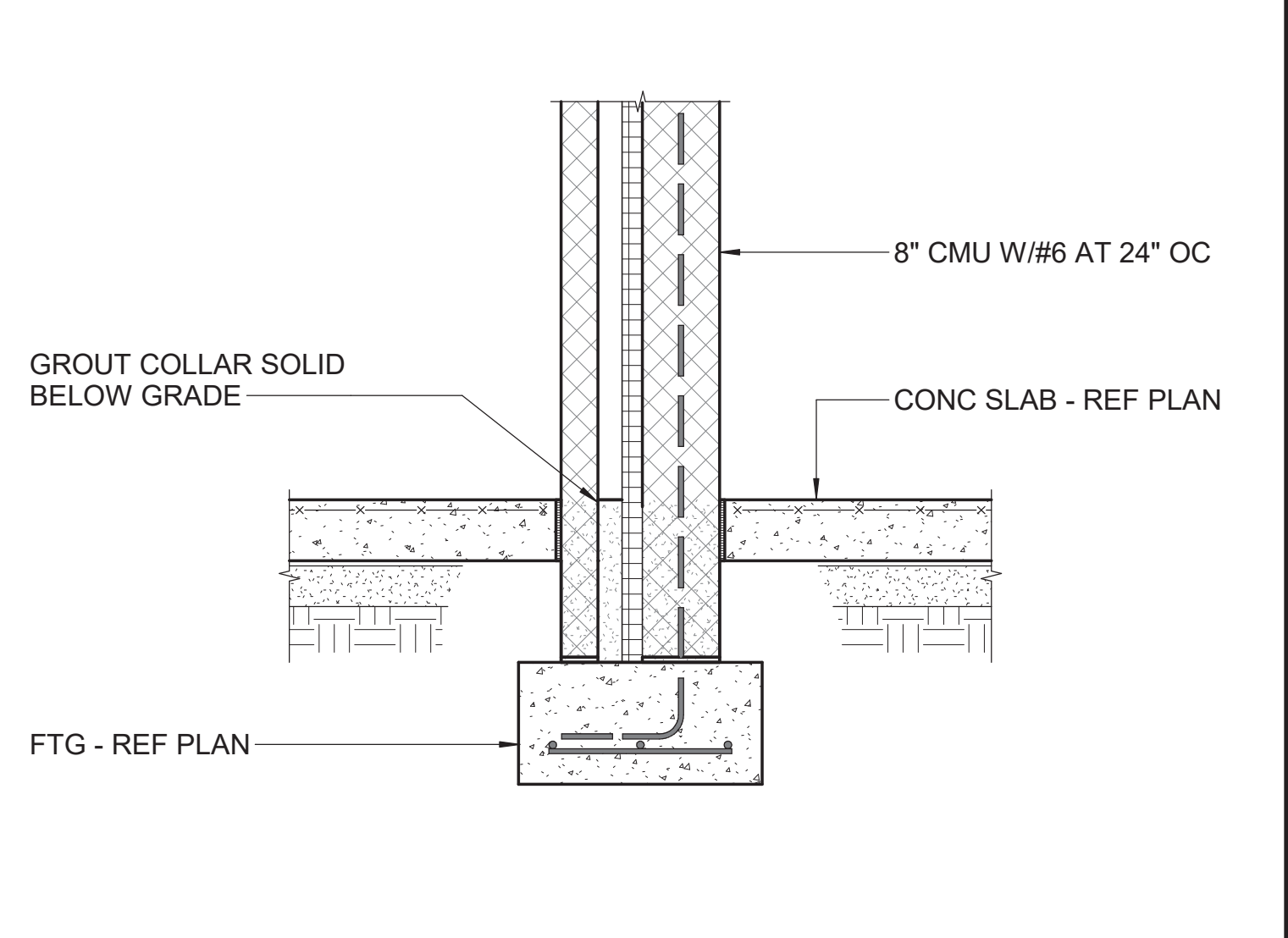
4 SECTION
3/4" = 1'-0"



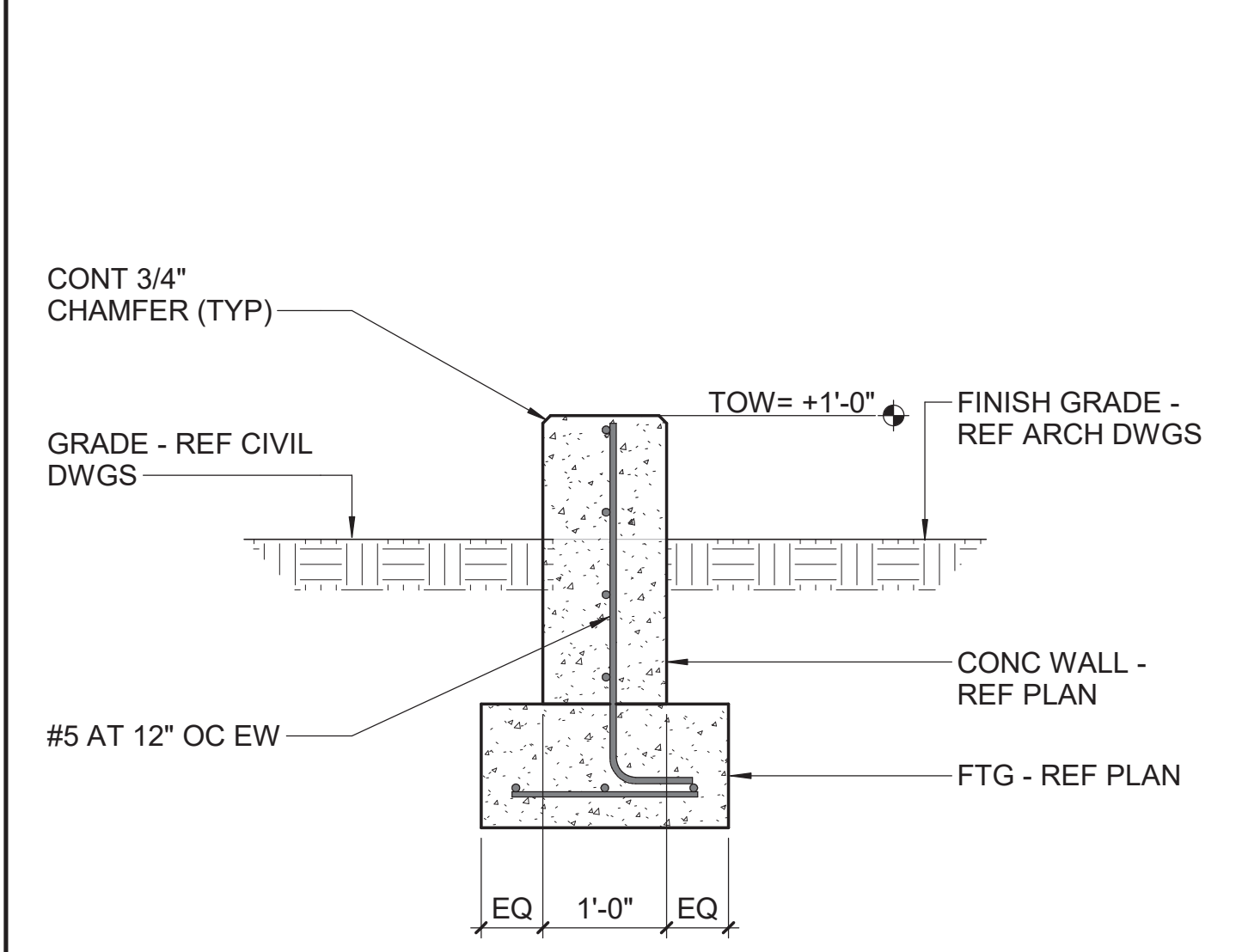
5 SECTION
3/4" = 1'-0"



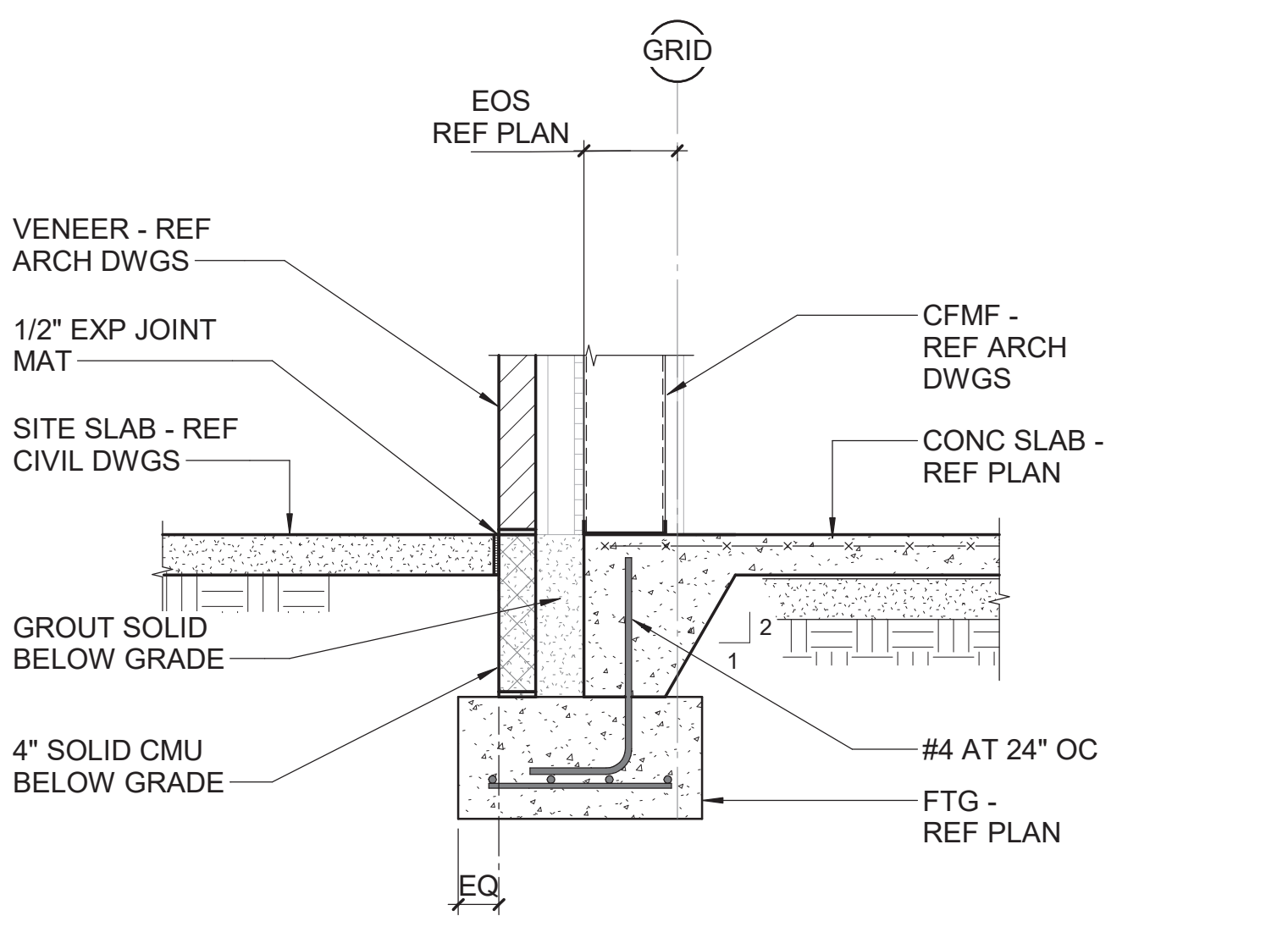
6 SECTION
3/4" = 1'-0"



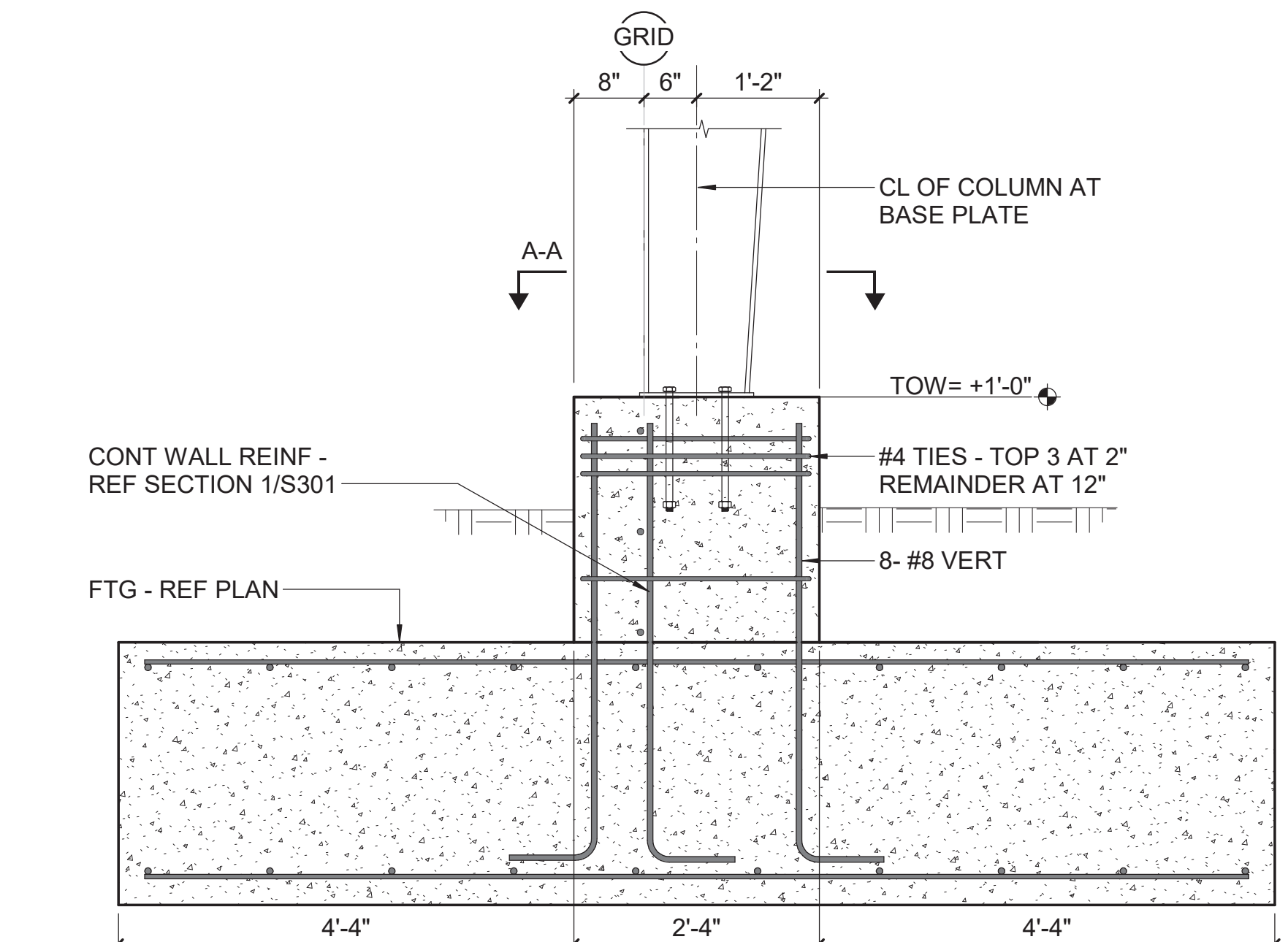
7 SECTION
3/4" = 1'-0"



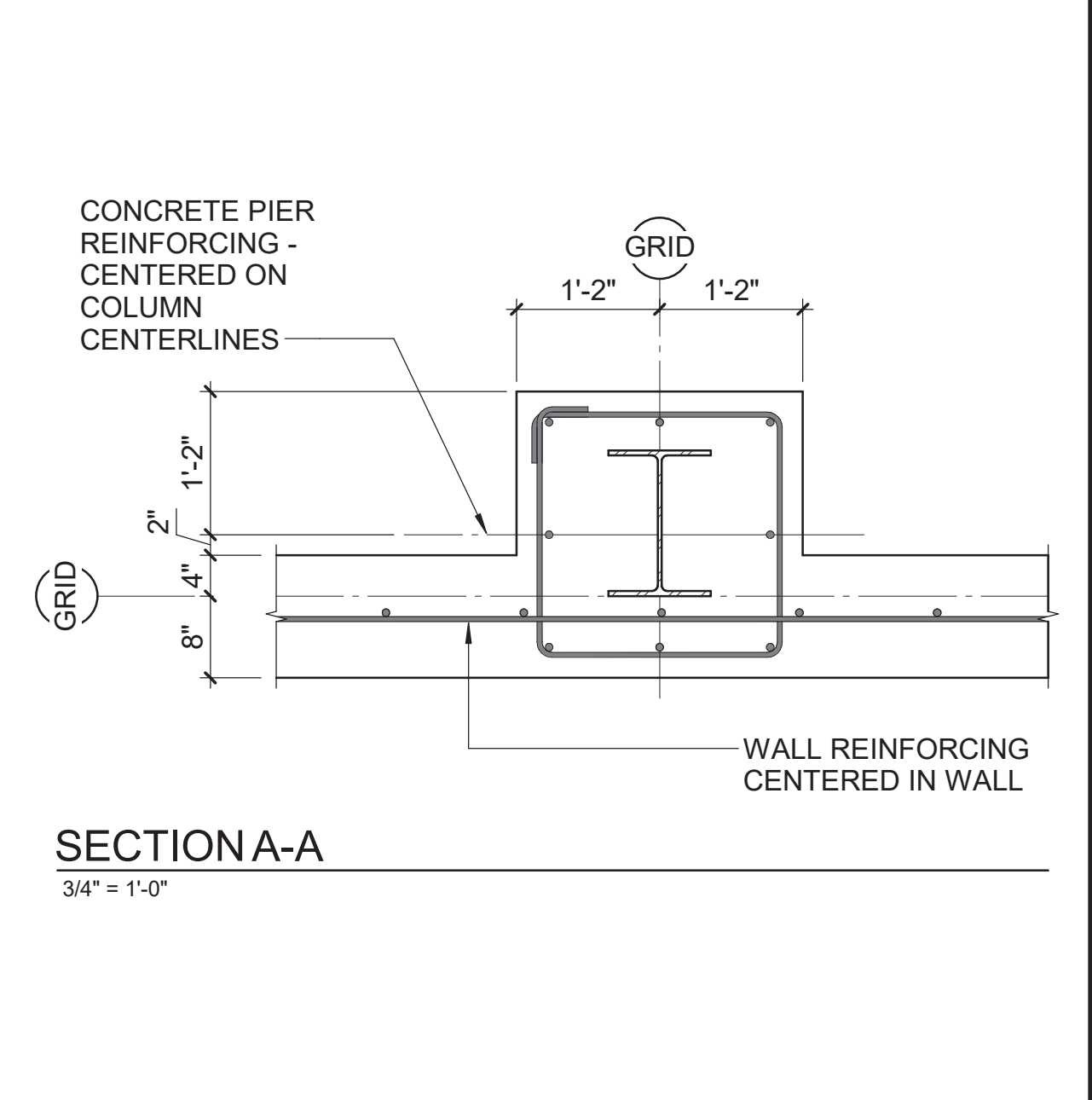
1 SECTION
3/4" = 1'-0"



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



3 SECTION
3/4" = 1'-0"



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



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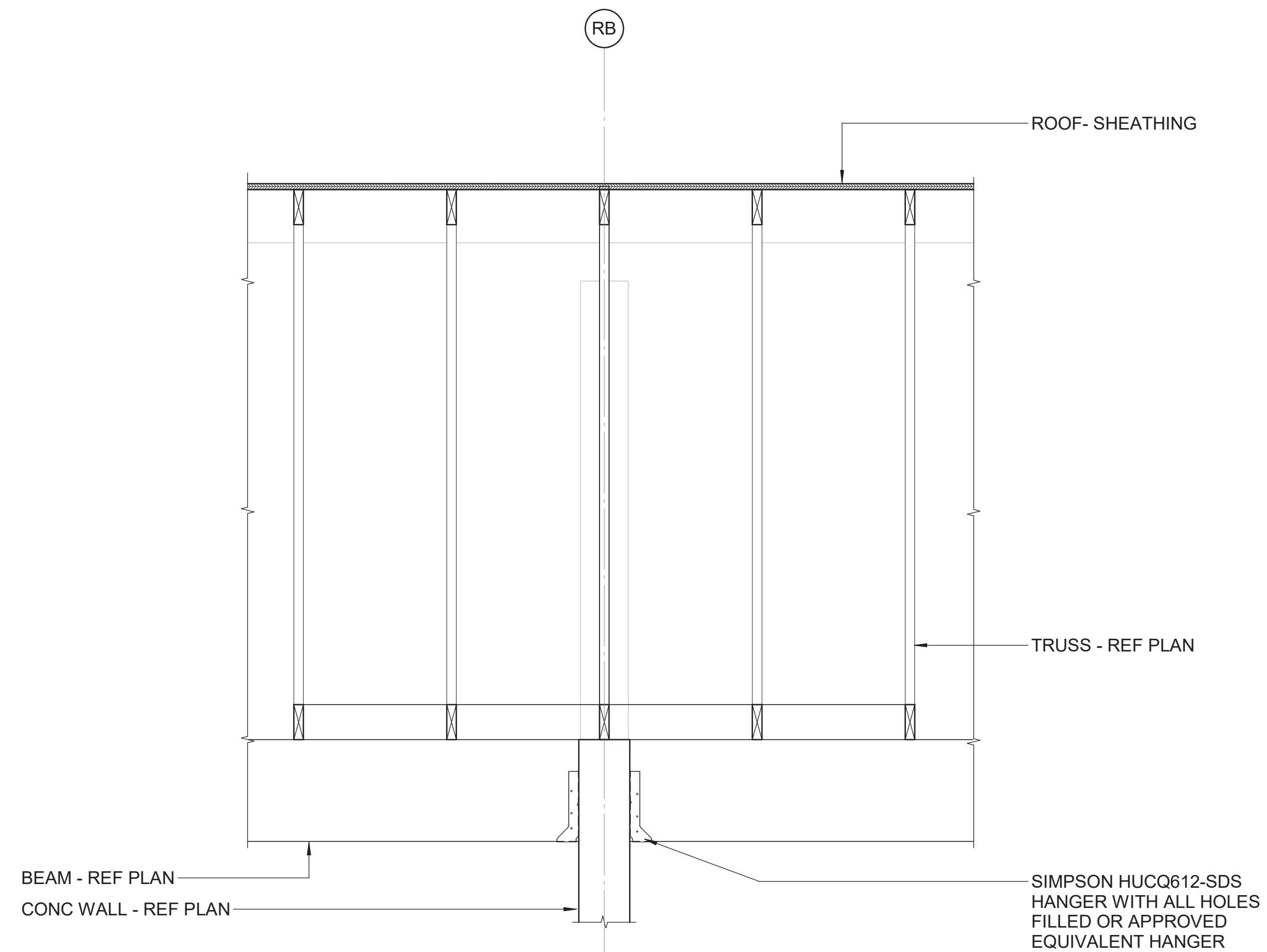
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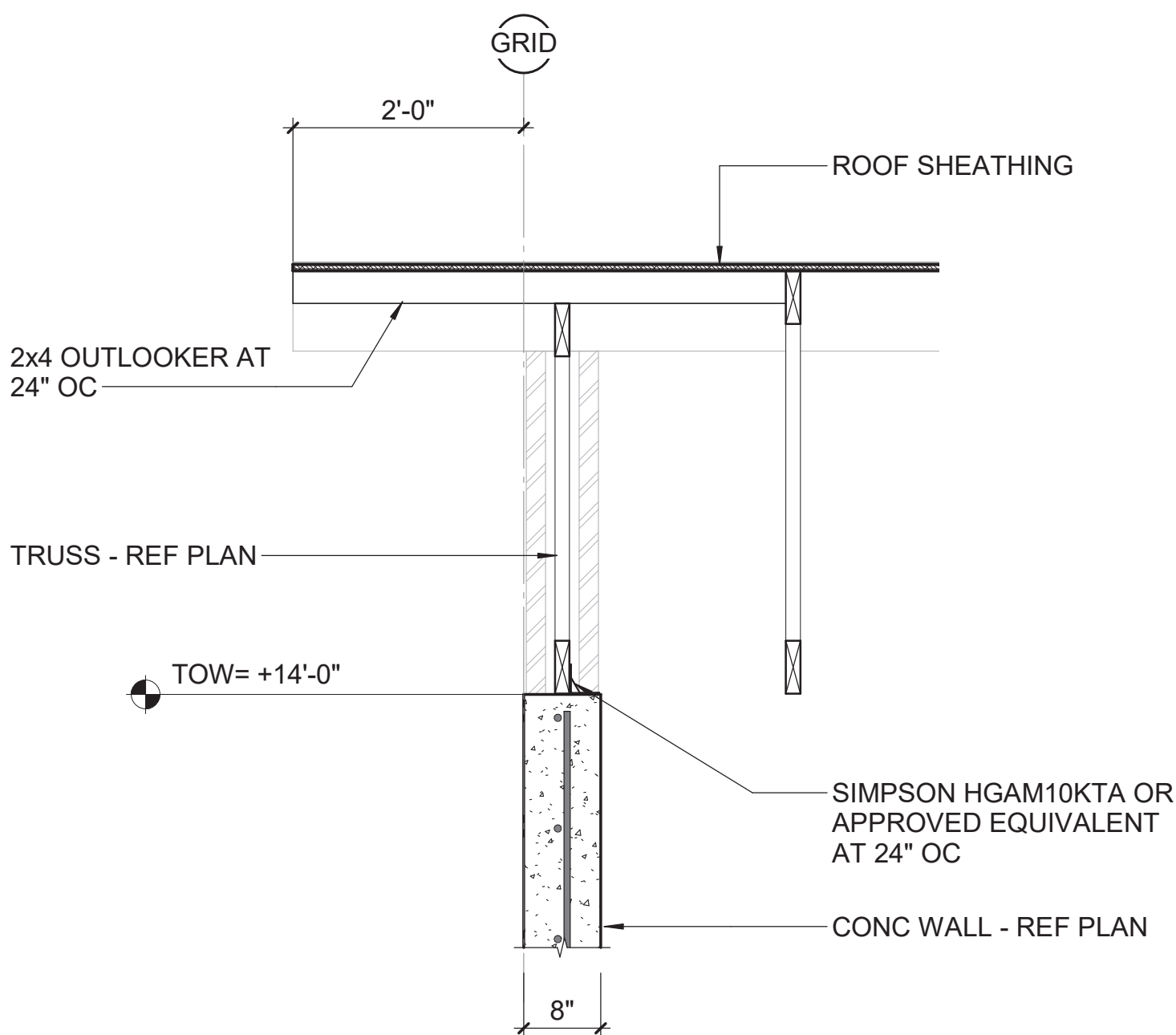
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SECTIONS

S301

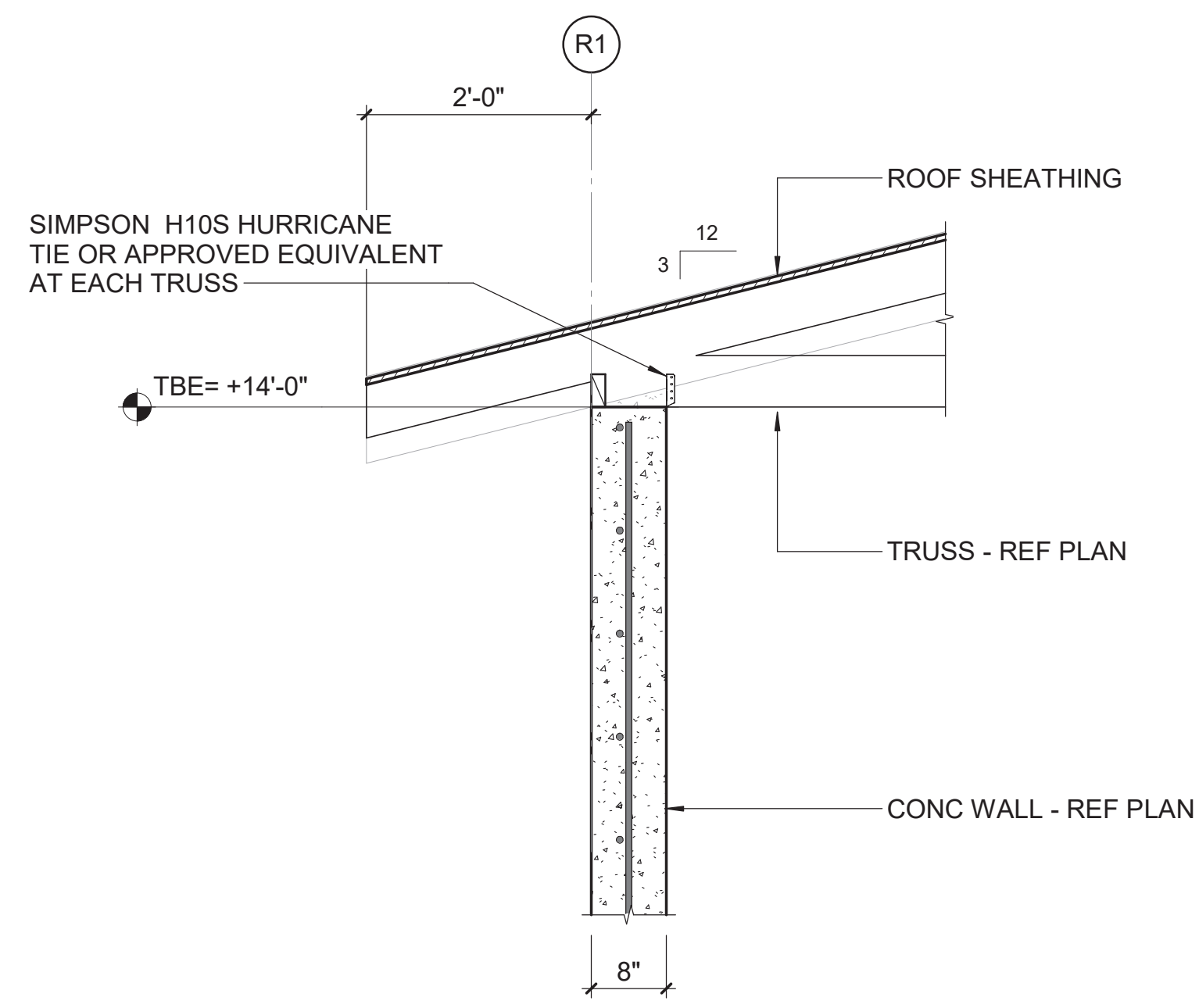
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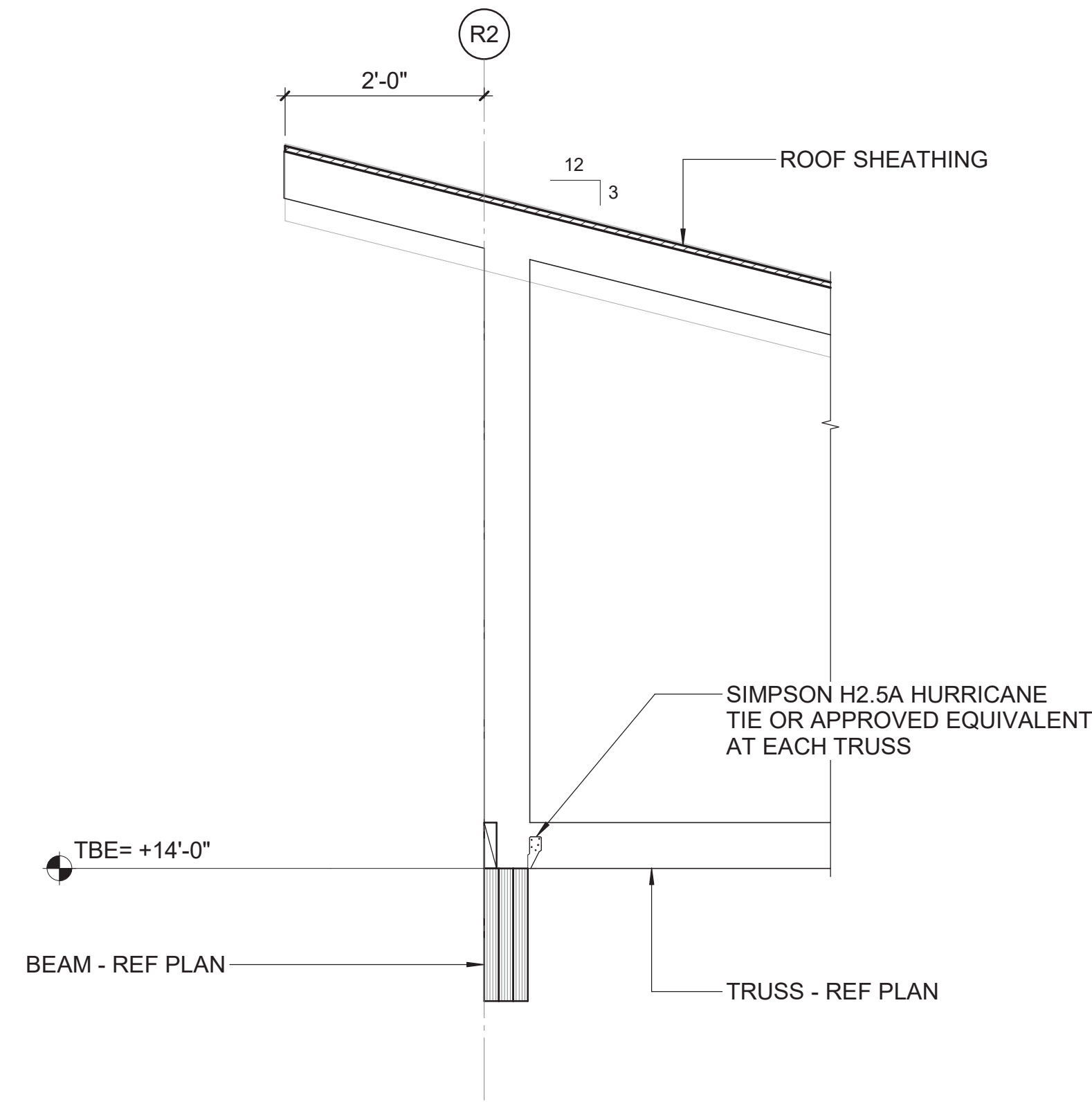
4 SECTION
3/4" = 1'-0"



1 SECTION
3/4" = 1'-0"



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



3 SECTION
3/4" = 1'-0"



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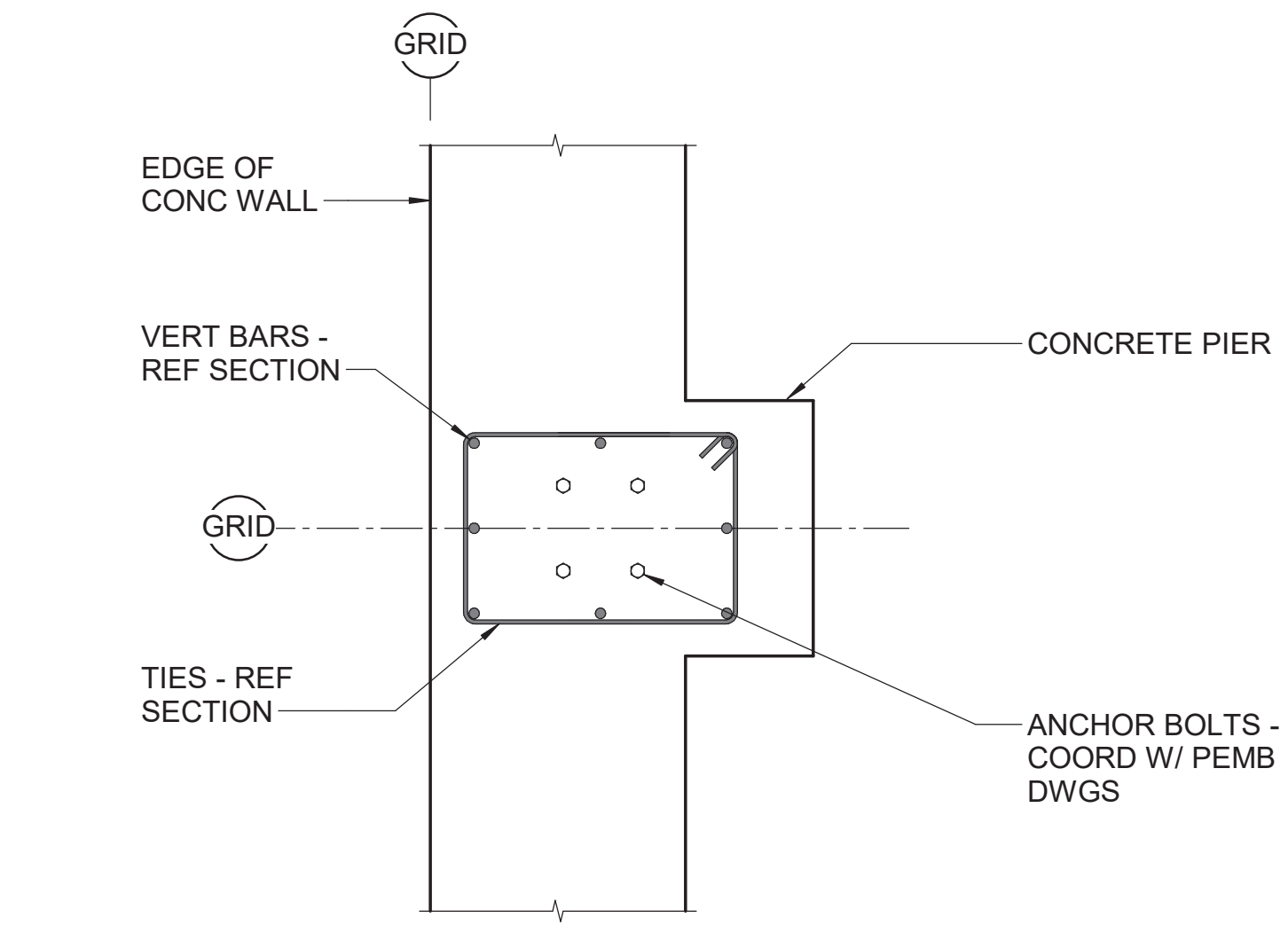
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SECTIONS

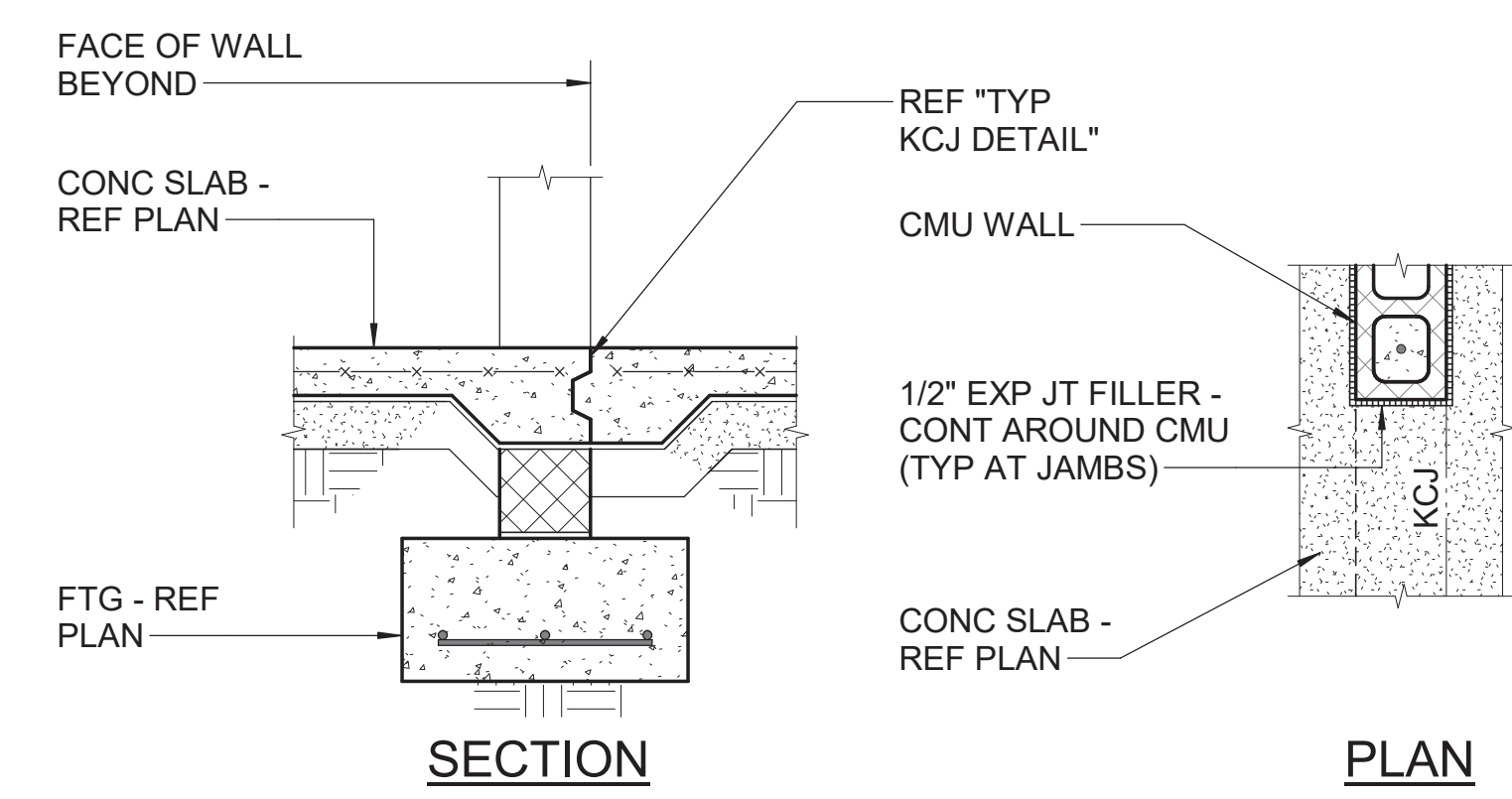
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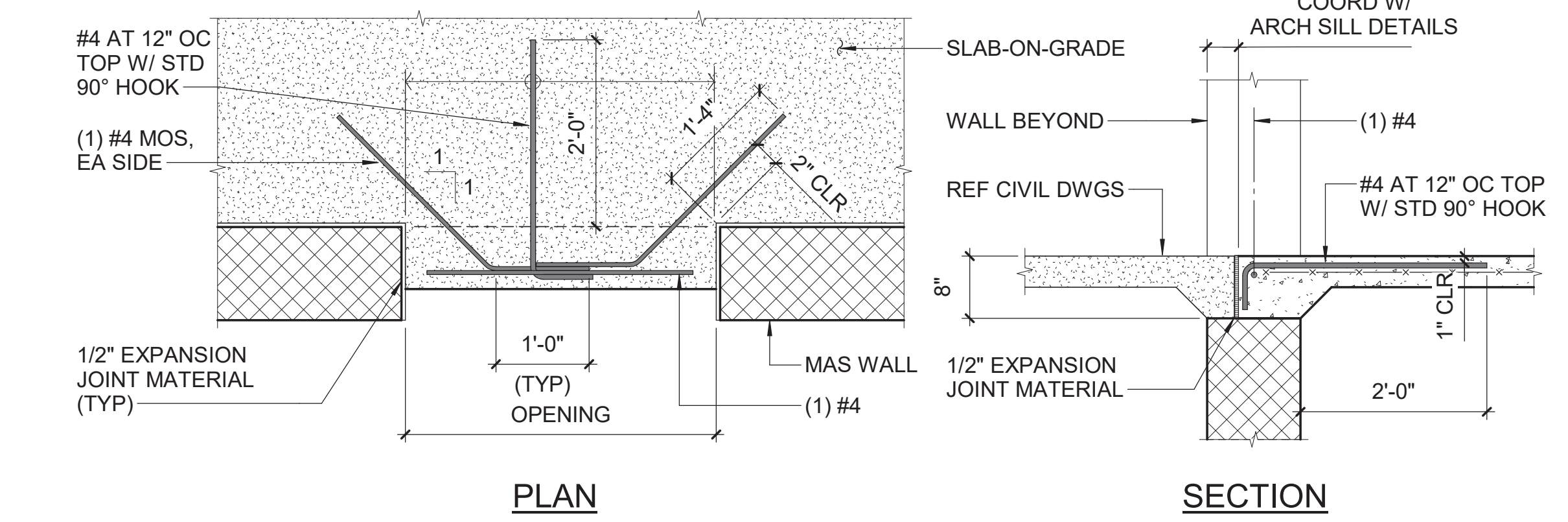
SHEET
TYPICAL DETAILS



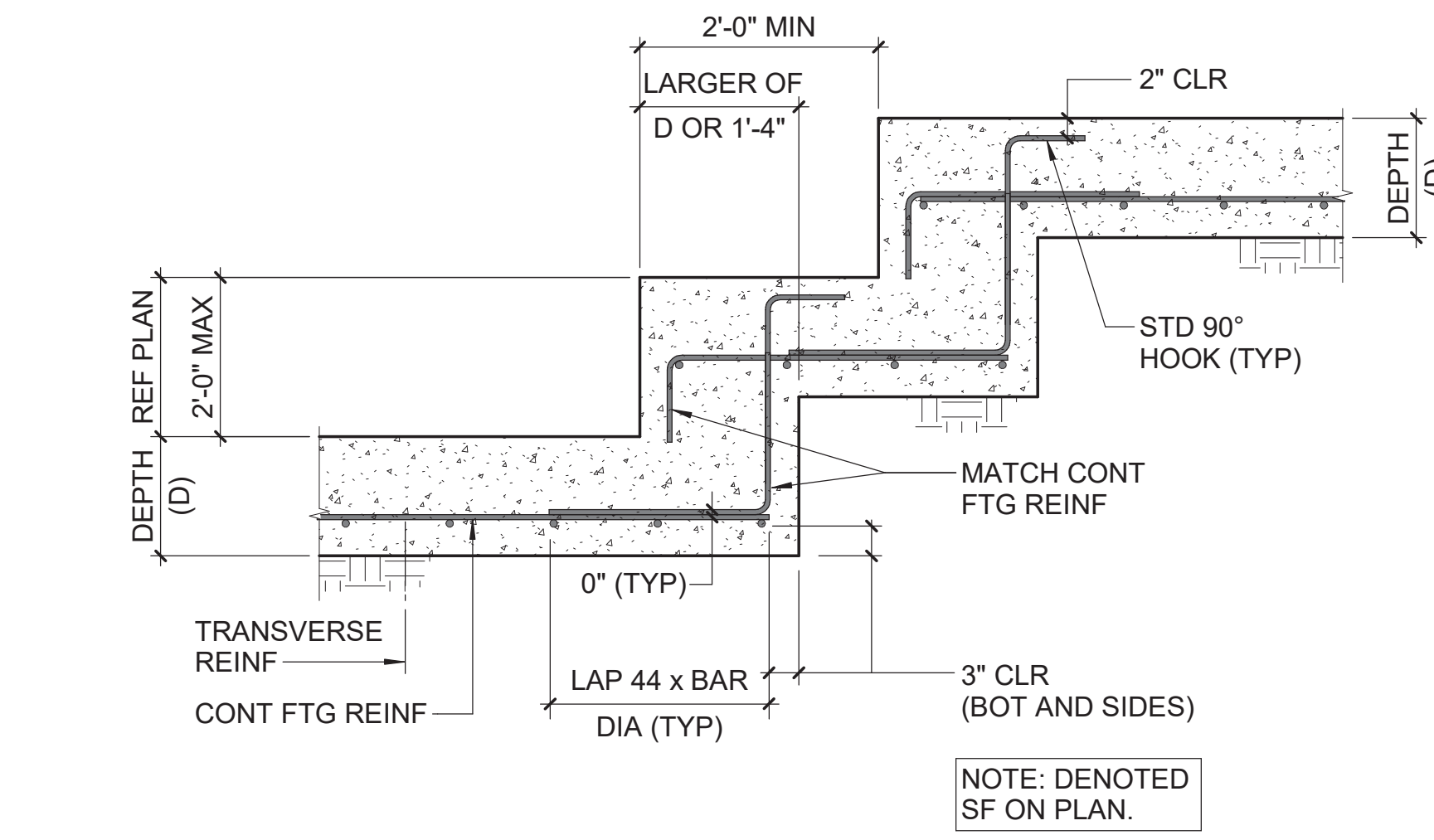
7 TYPICAL PEMB FOOTING REINFORCING DETAIL
3/4" = 1'-0"



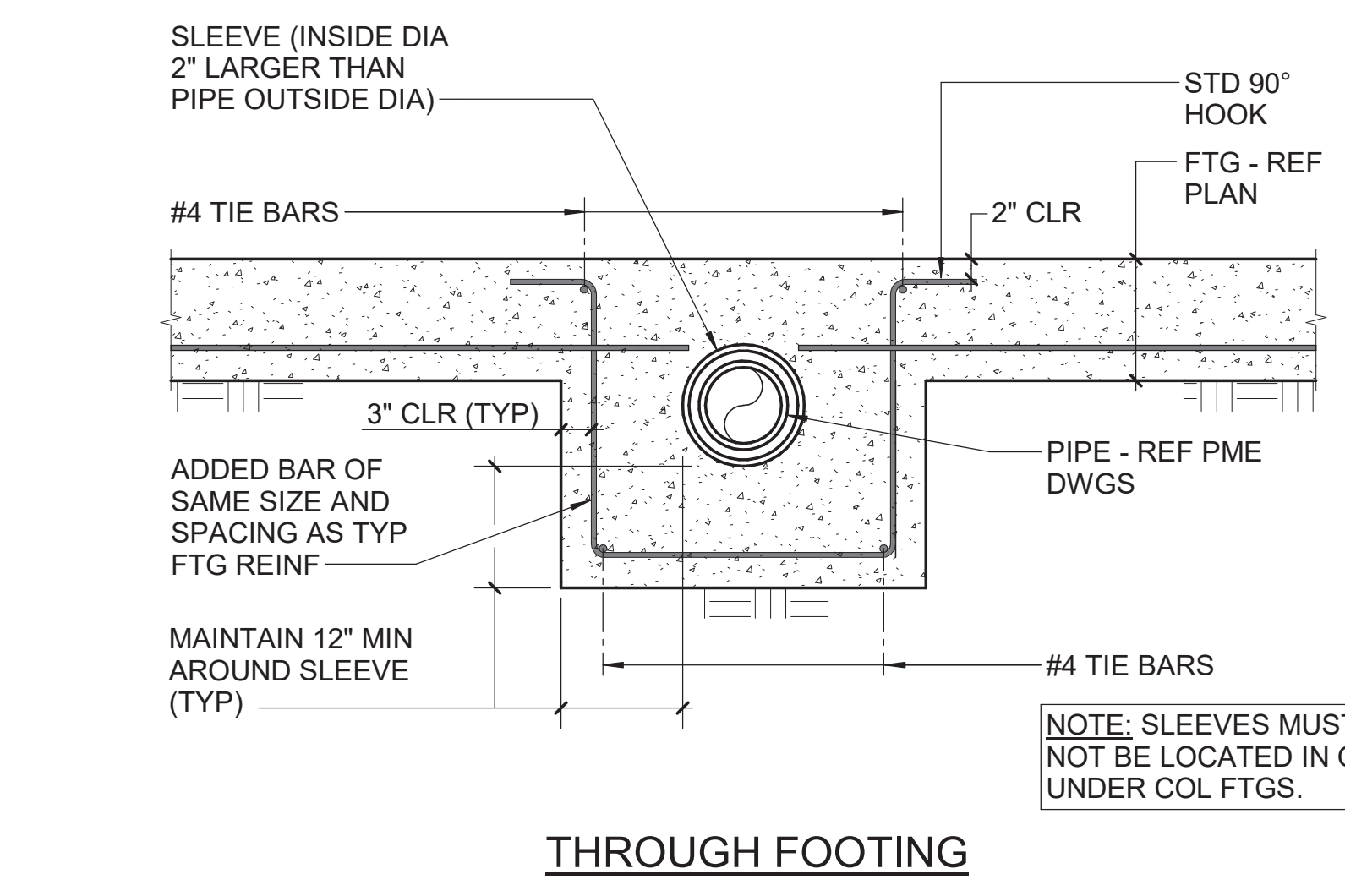
8 TYPICAL DETAIL AT INTERIOR DOOR OPENINGS
3/4" = 1'-0"



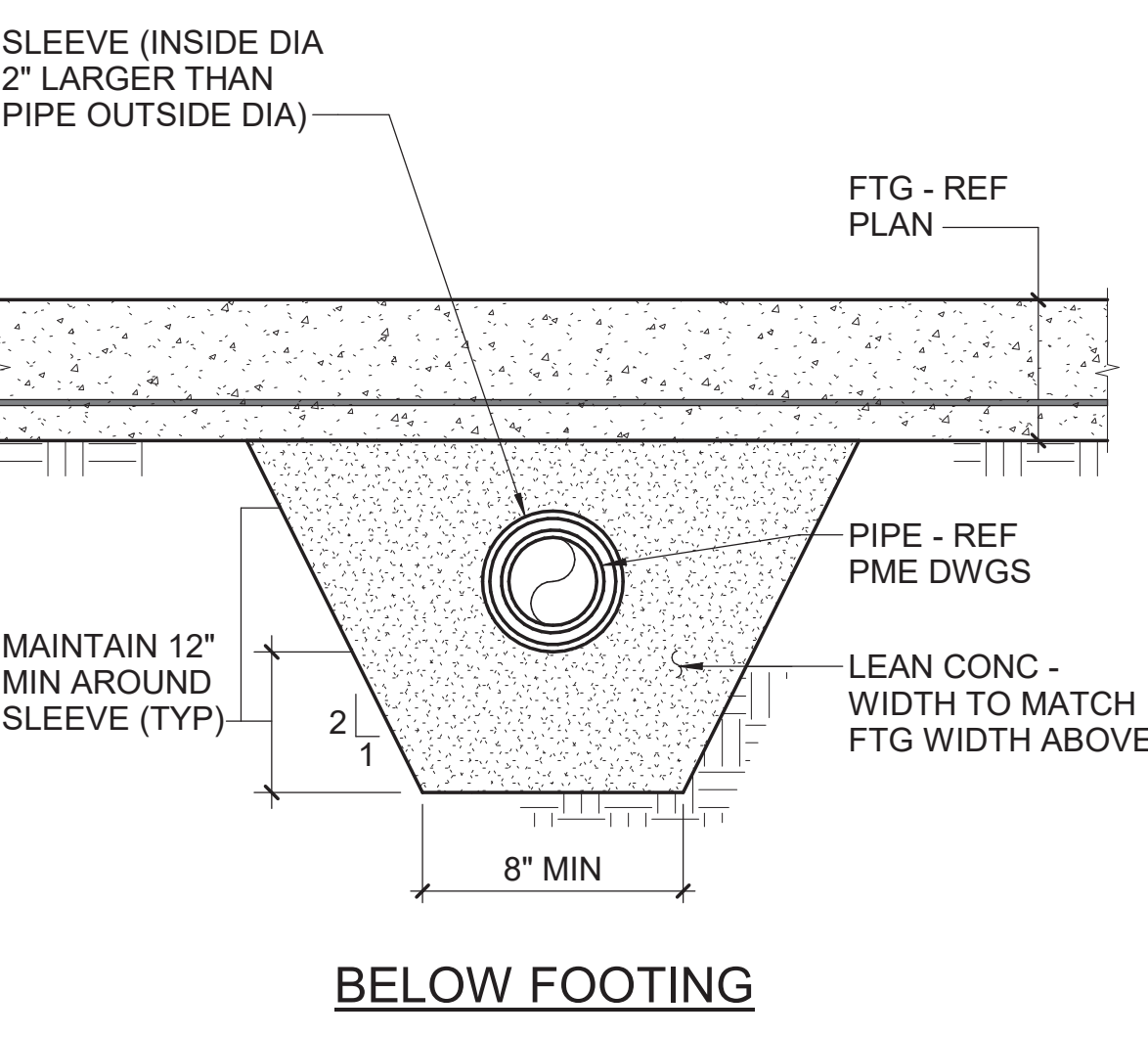
9 TYPICAL EXTERIOR DOORS / OPENINGS DETAIL
3/4" = 1'-0"



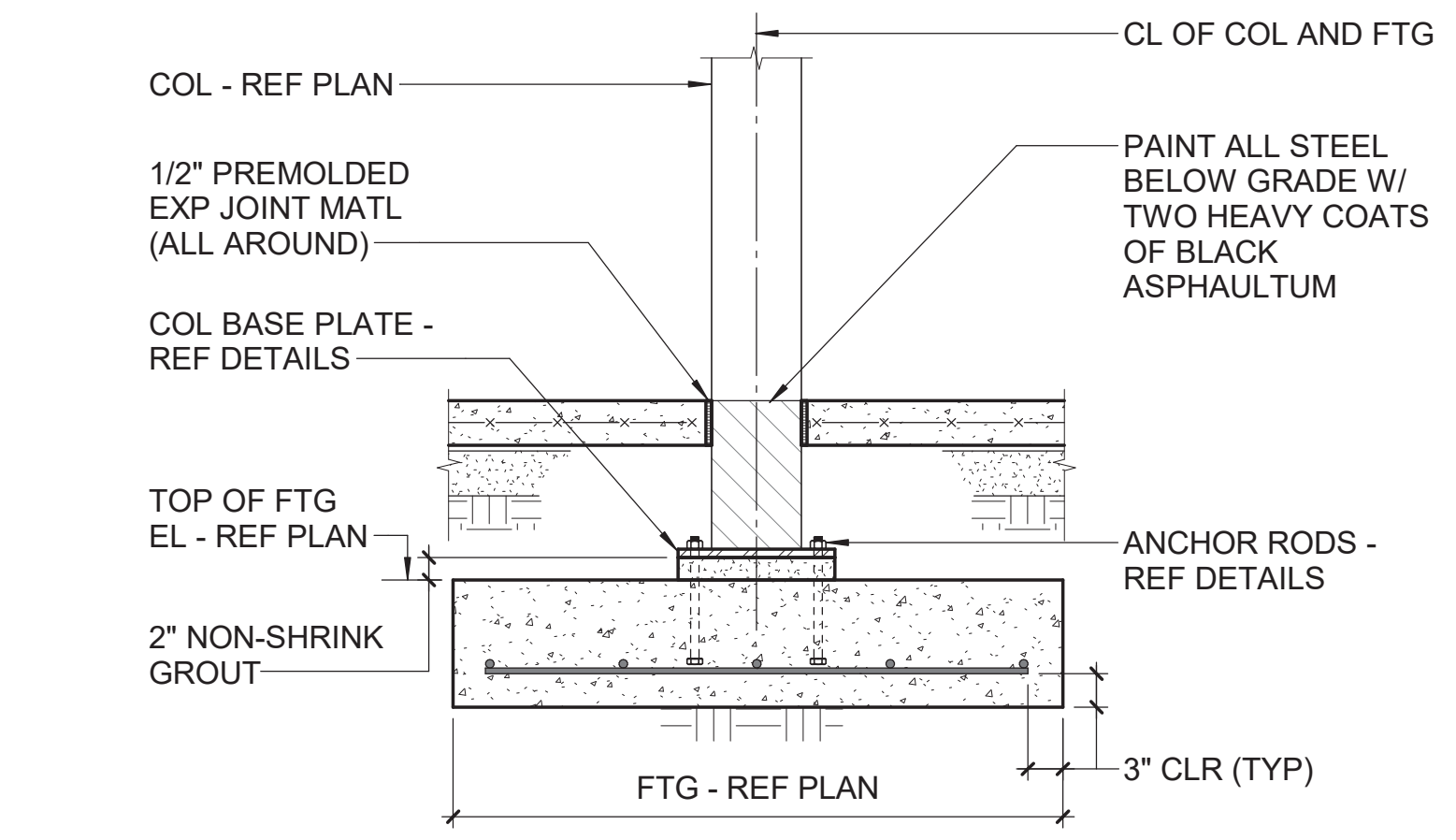
4 TYPICAL STEPPED WALL FOOTING DETAIL
3/4" = 1'-0"



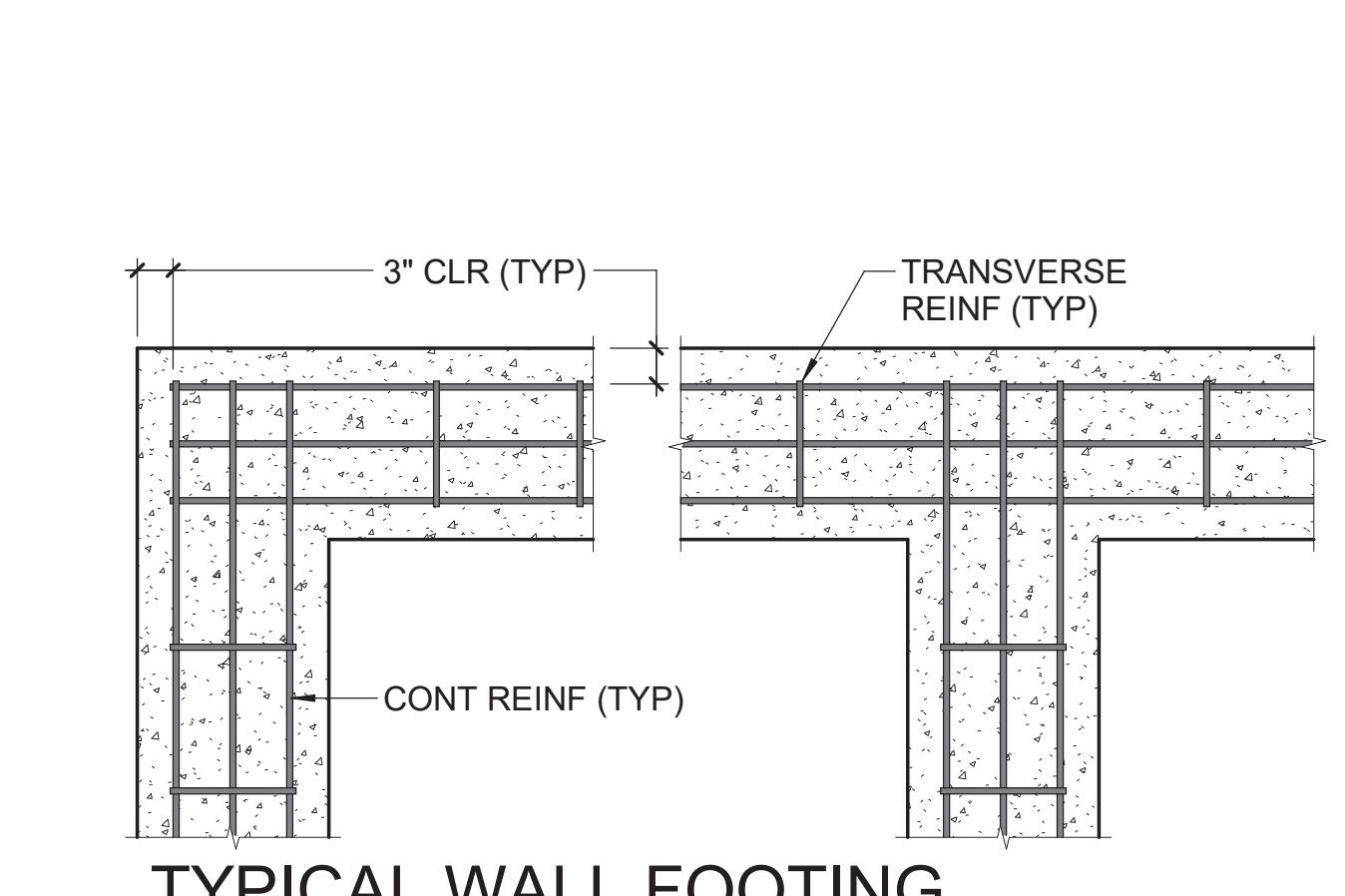
5 TYPICAL PIPE SLEEVE AT WALL FOOTING DETAILS
3/4" = 1'-0"



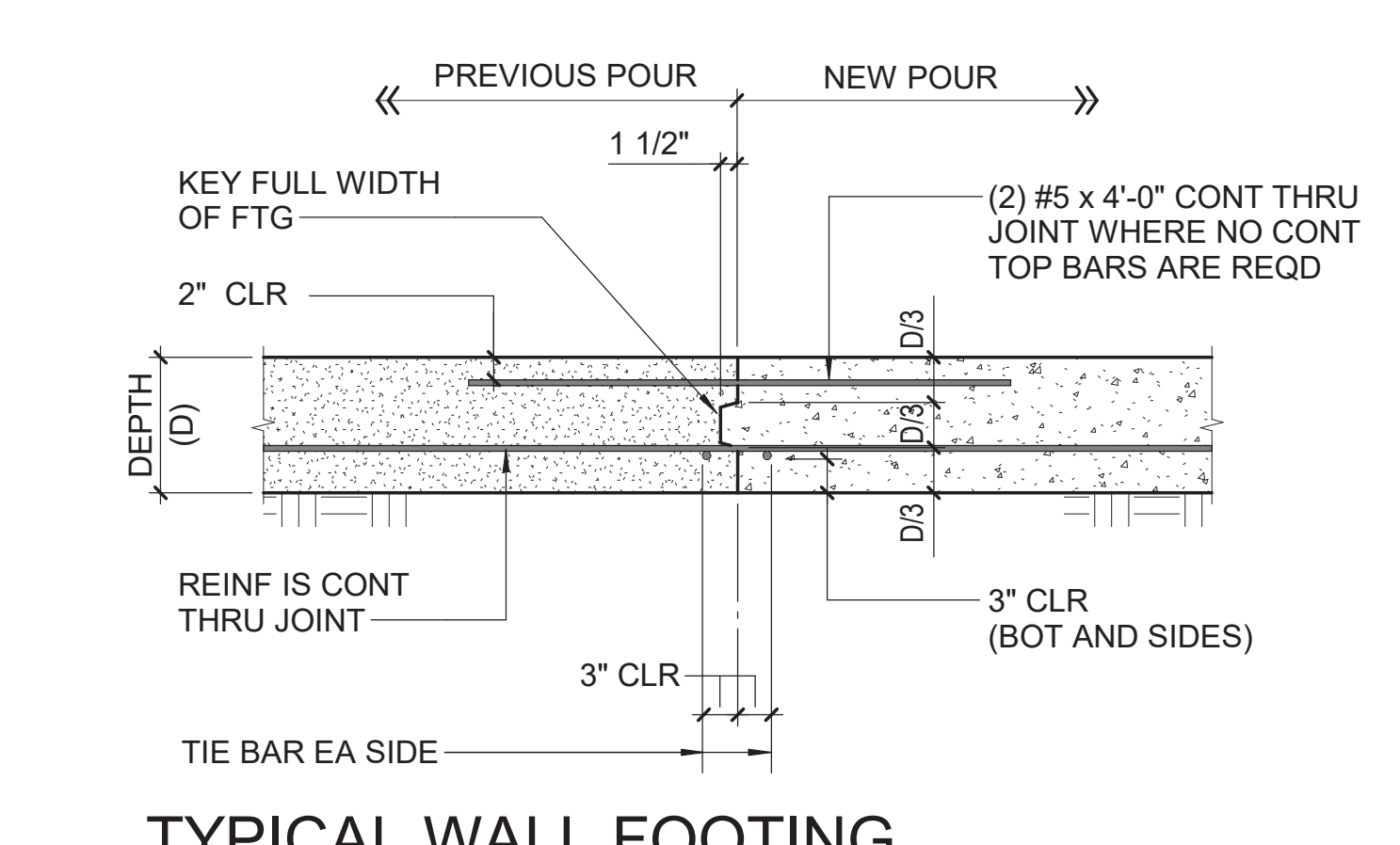
6 TYPICAL TRENCH DRAIN DETAIL
3/4" = 1'-0"



1 TYPICAL COLUMN & FOOTING DETAIL
3/4" = 1'-0"

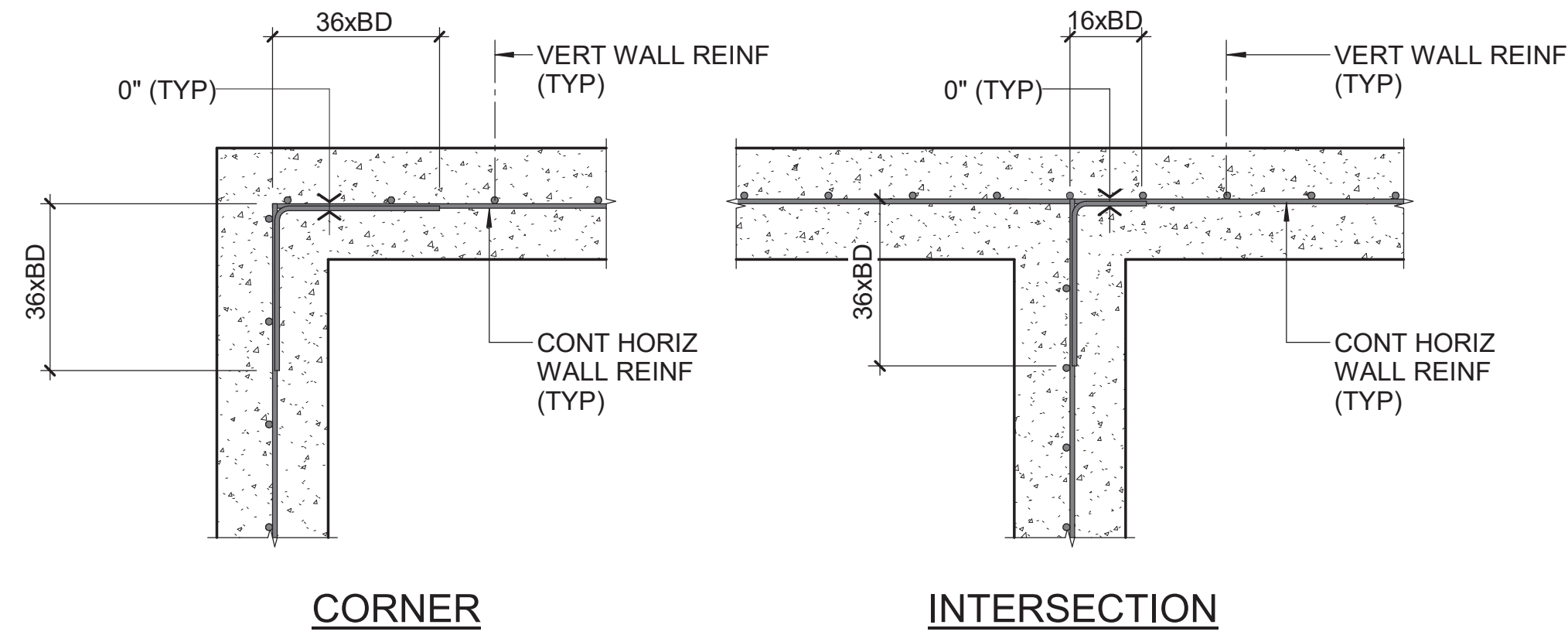


2 TYPICAL WALL FOOTING CORNER & INTERSECTION DETAILS
3/4" = 1'-0"

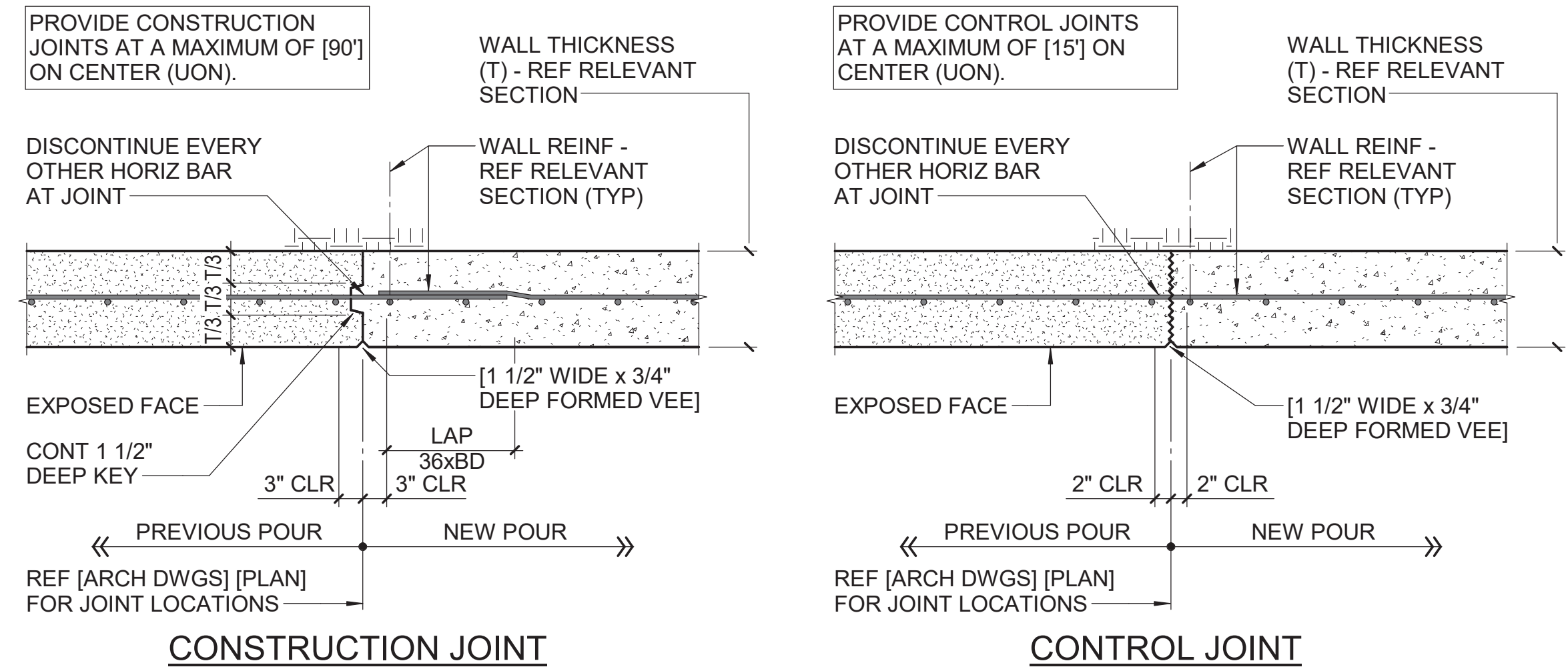


3 TYPICAL WALL FOOTING CONSTRUCTION JOINT DETAIL
3/4" = 1'-0"

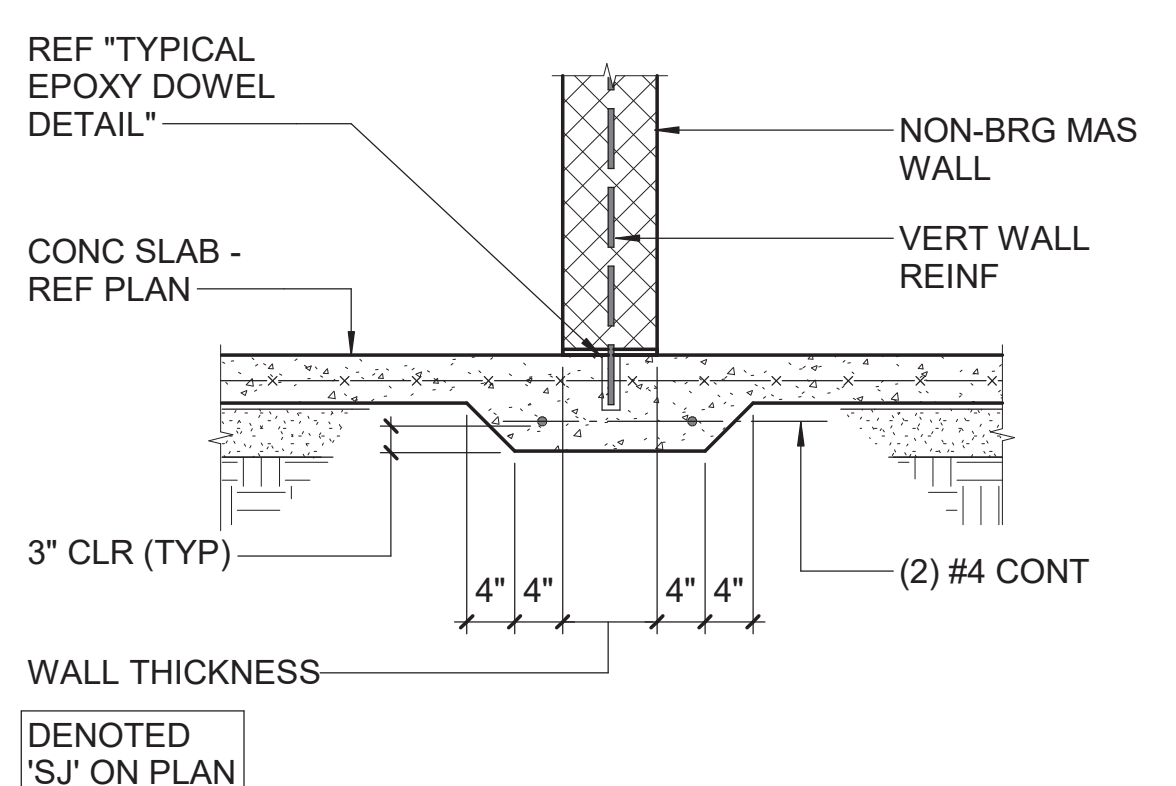
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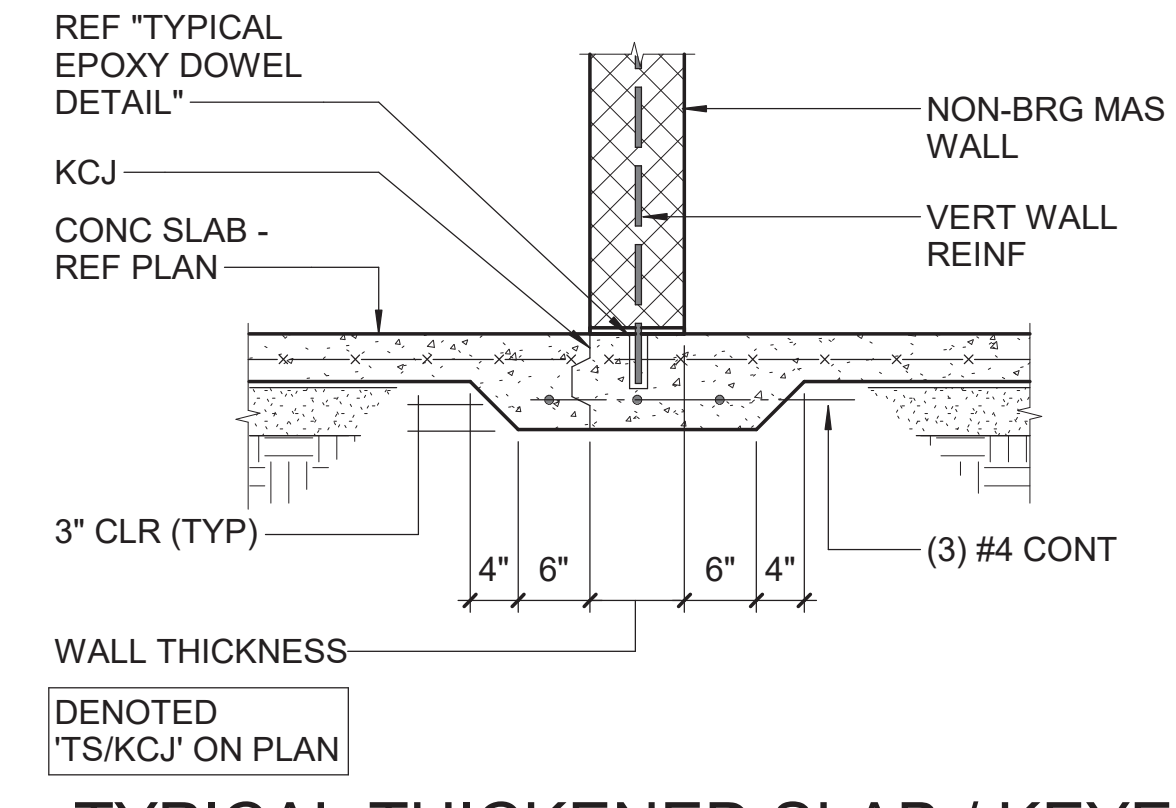
7 TYPICAL DETAIL AT CORNERS AND INTERSECTIONS OF CONCRETE WALLS
3/4" = 1'-0"



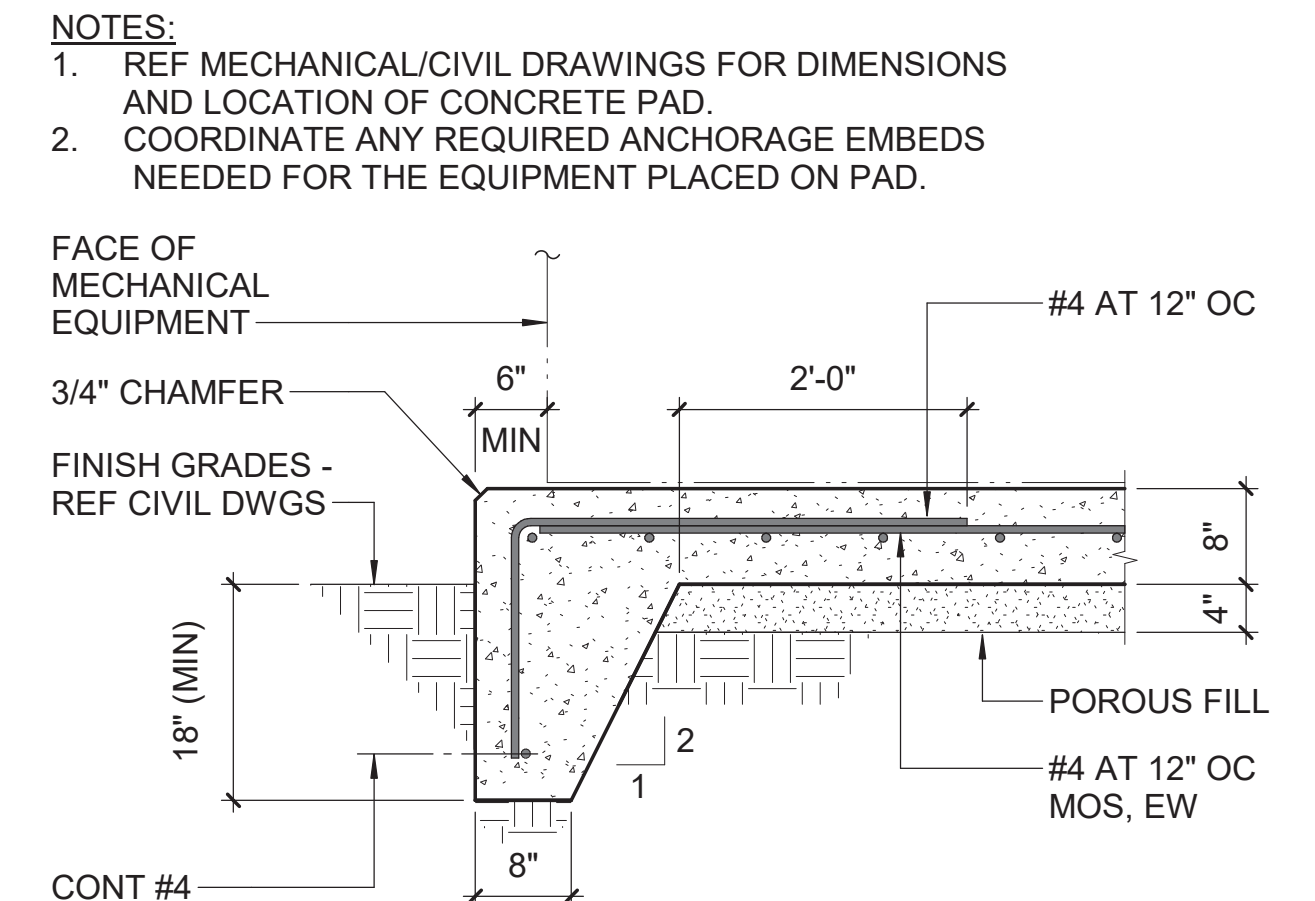
8 TYPICAL CONCRETE WALL VERTICAL JOINT DETAILS
3/4" = 1'-0"



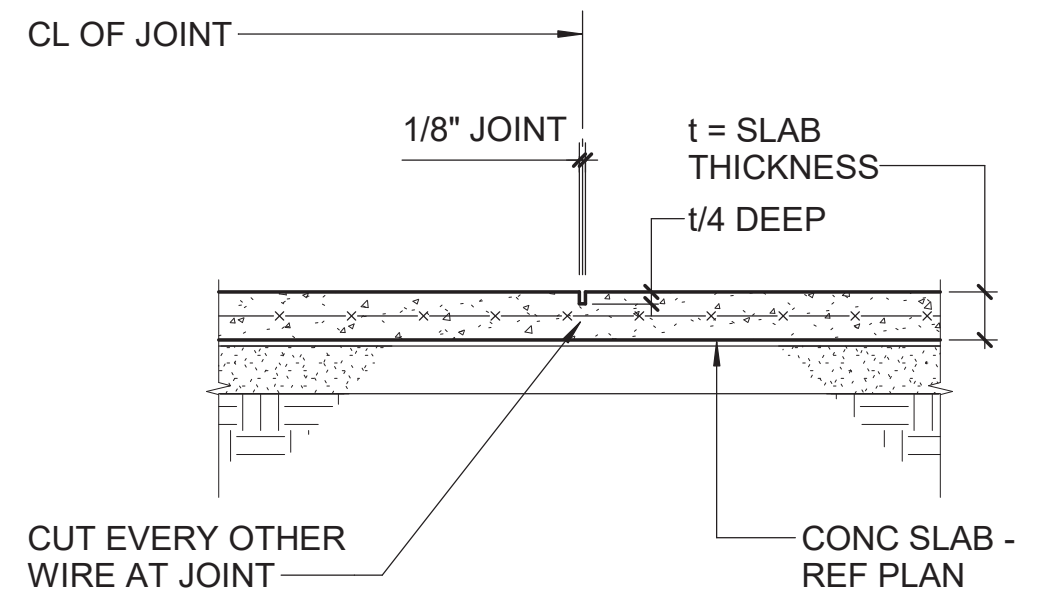
4 TYPICAL THICKENED SLAB DETAIL
3/4" = 1'-0"



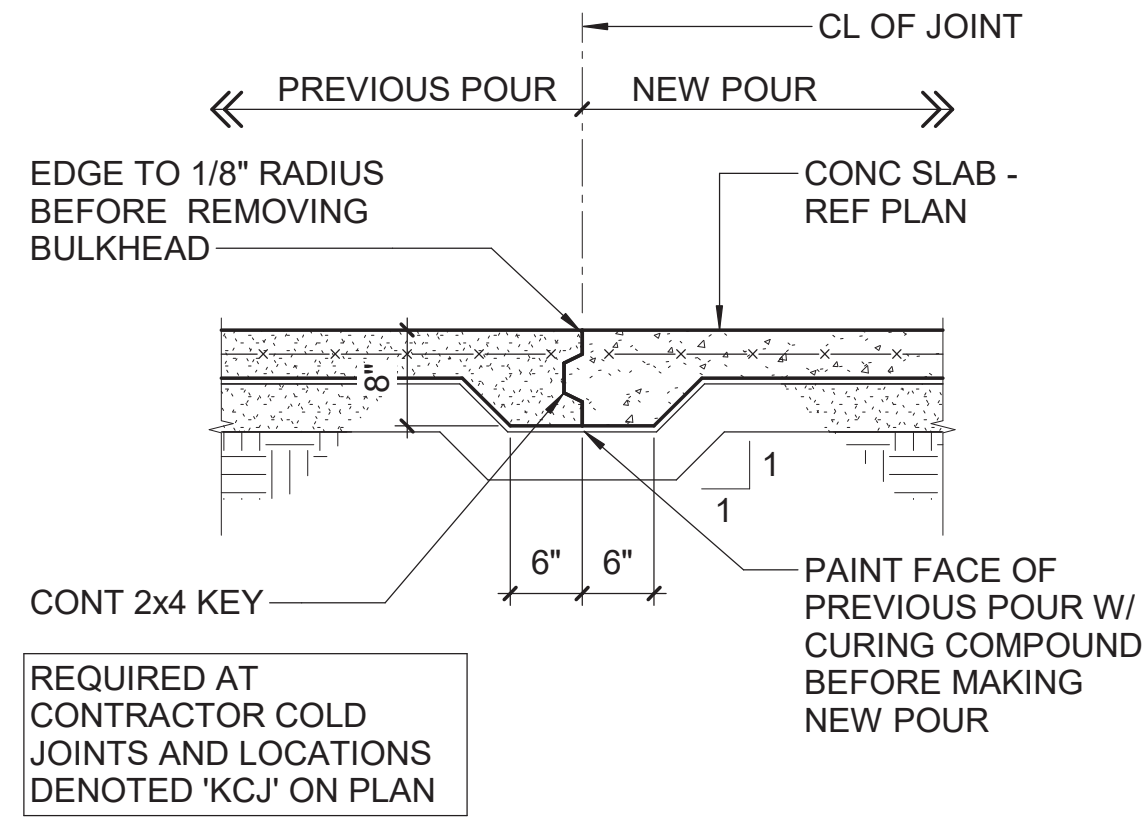
5 TYPICAL THICKENED SLAB / KEYED CONSTRUCTION JOINT DETAIL
3/4" = 1'-0"



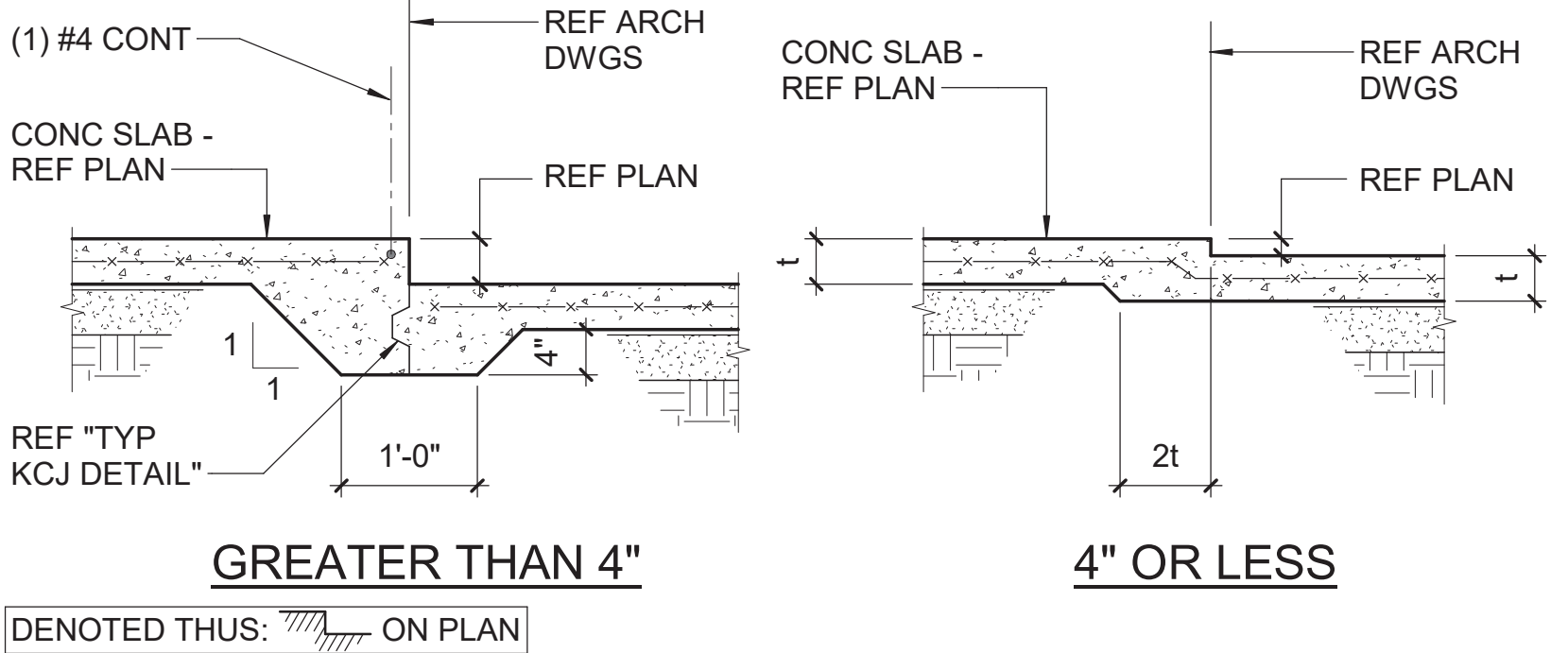
6 TYPICAL EXTERIOR EQUIPMENT PAD DETAIL
3/4" = 1'-0"



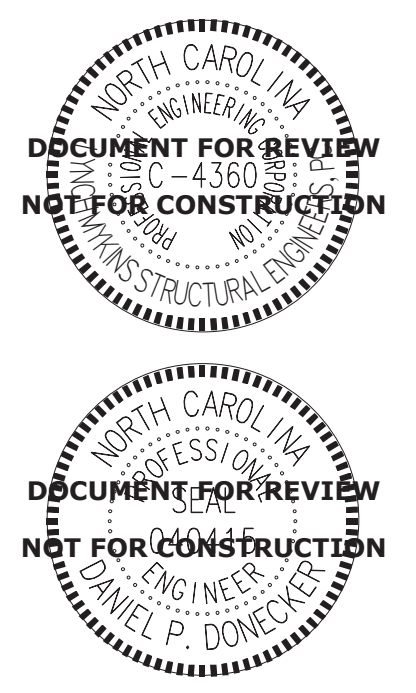
1 TYPICAL SAWED JOINT DETAIL
3/4" = 1'-0"



2 TYPICAL KEYED CONSTRUCTION JOINT DETAIL
3/4" = 1'-0"



3 TYPICAL COLUMN AND FOOTING DETAIL
3/4" = 1'-0"



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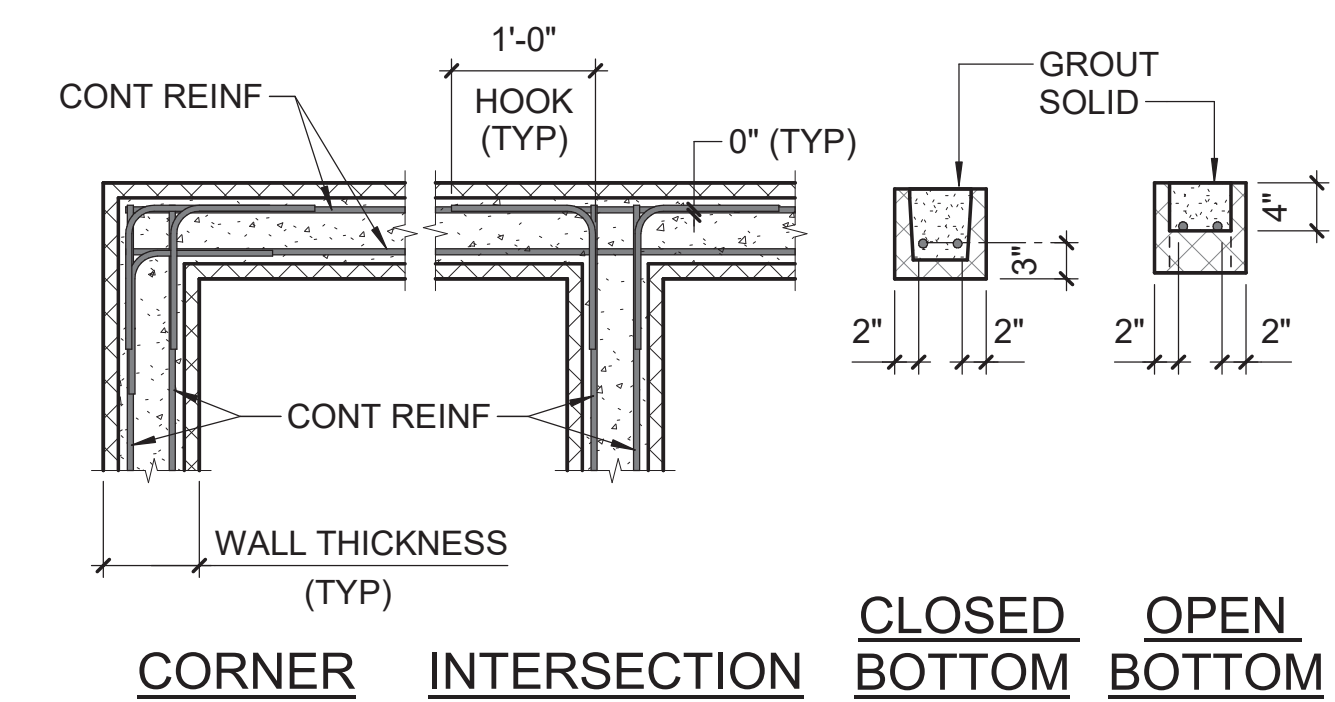
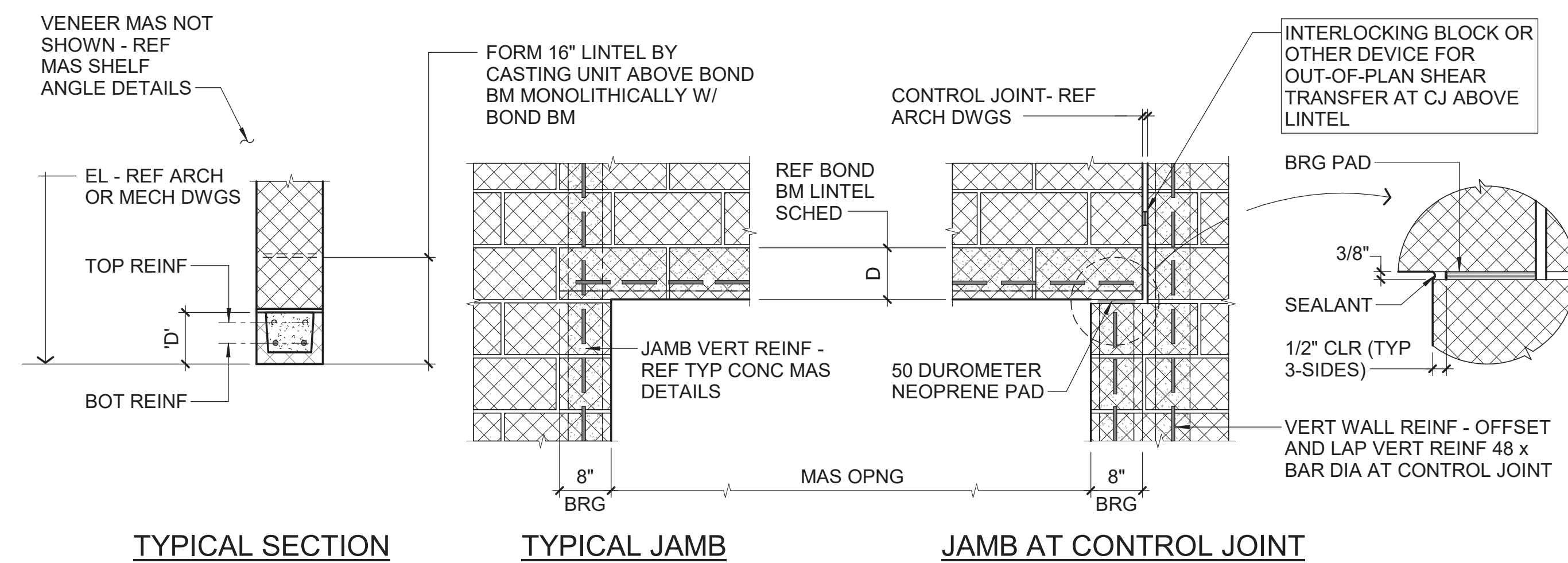
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TYPICAL DETAILS

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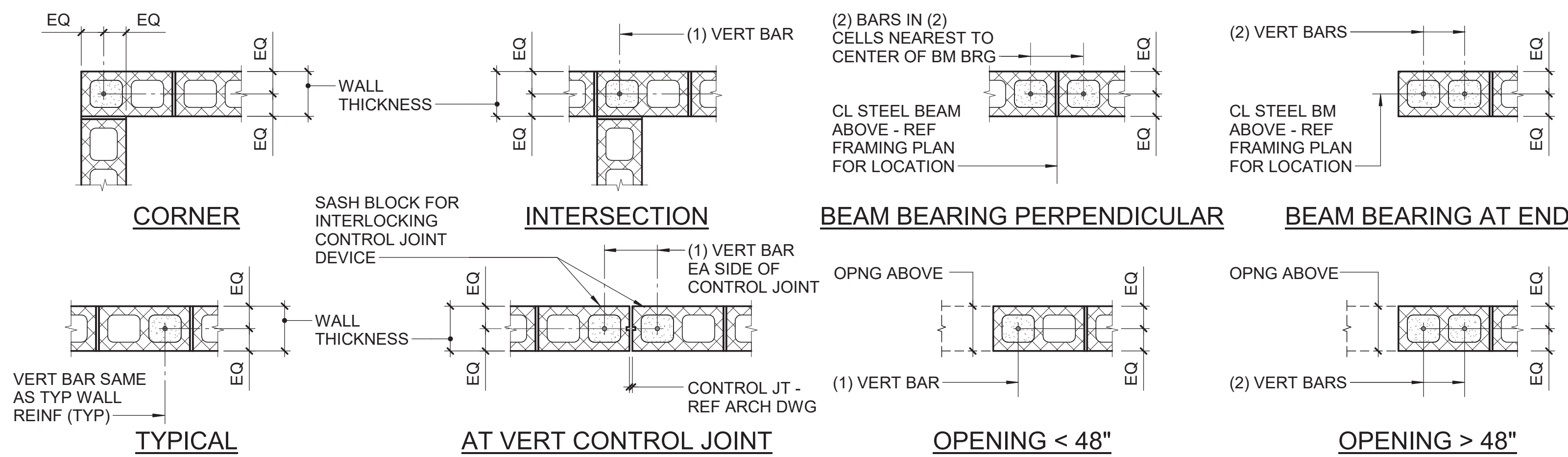
BOND BEAM LINTEL SCHEDULE		
CLEAR SPAN	DEPTH 'D'	REINFORCING
0 TO 3'-4"	8"	8" WIDE (2) #4 BOTTOM
3'-5" TO 5'-4"	8"	(2) #5 BOTTOM
5'-5" TO 6'-8"	16"	(2) #5 BOTTOM
6'-9" TO 8'-0"	16"	(2) #5 TOP&BOT

- NOTES:
- REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS; FOR DUCT OPENINGS REFER TO MECHANICAL DRAWINGS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR WIDTH OF LINTEL.
 - SCHEDULE APPLIES ONLY TO LINTELS NOT OTHERWISE SHOWN ON THE DRAWINGS.



2 BOND BEAM LINTEL DETAILS
3/4" = 1'-0"

3 TYPICAL BOND BEAM REINFORCING DETAILS
3/4" = 1'-0"



1 TYPICAL CONCRETE MASONRY REINFORCING DETAILS
3/4" = 1'-0"



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**TYPICAL
DETAILS**

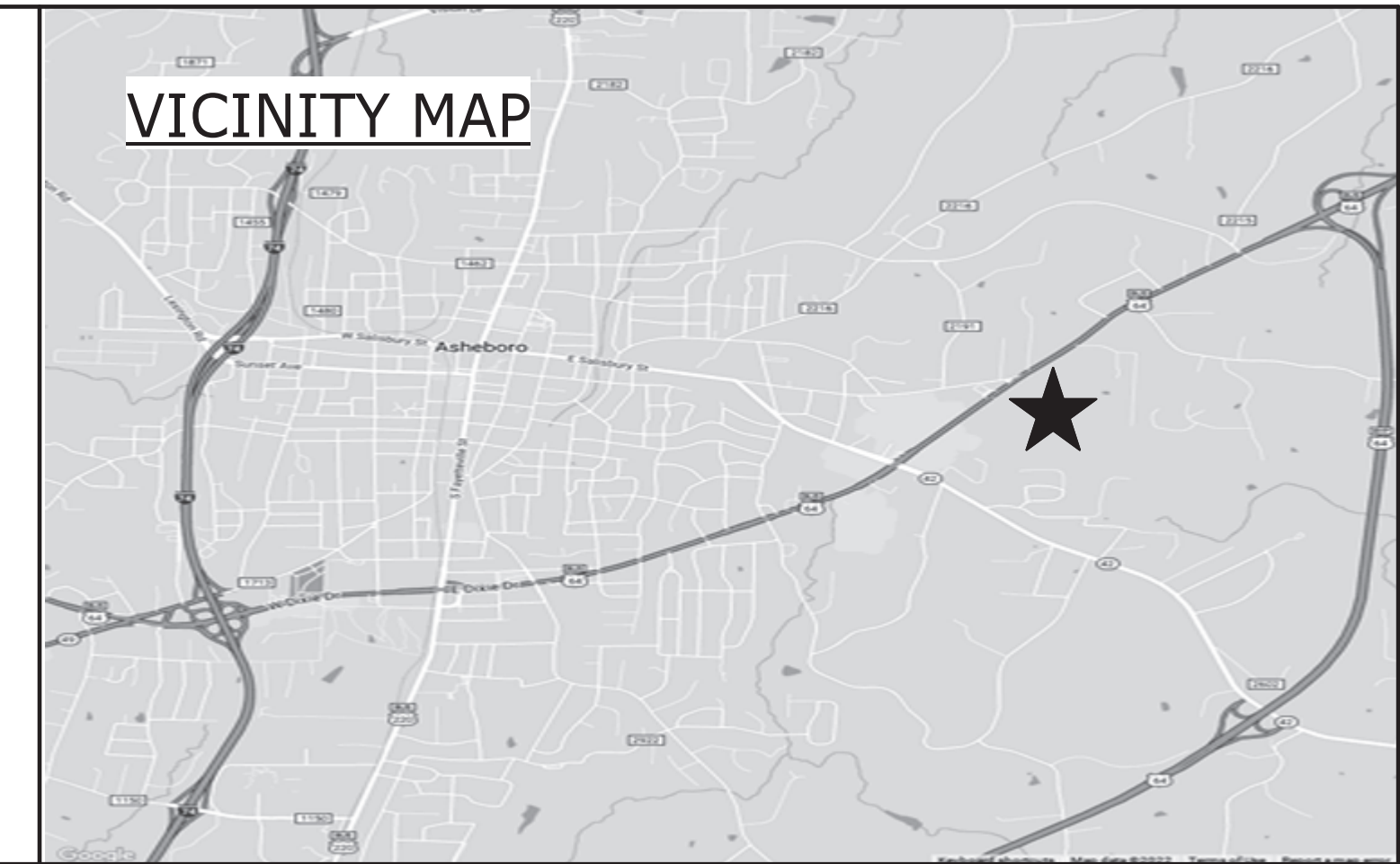
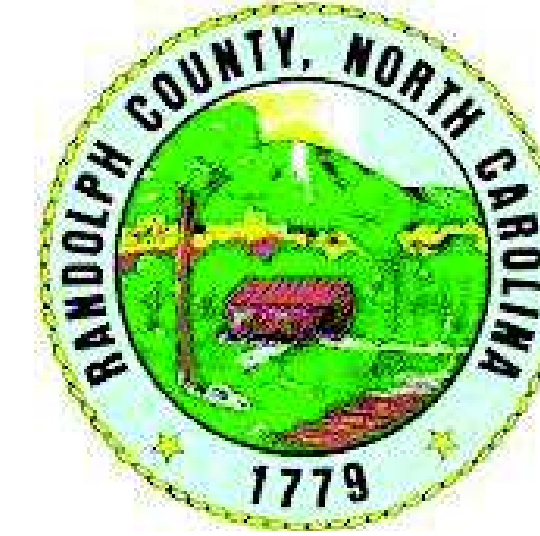
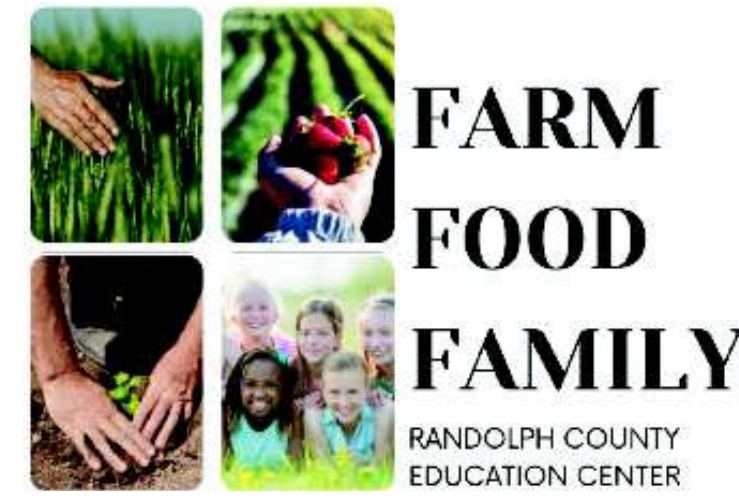
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SCHEDULE OF ALTERNATES

NOTE: REFER TO PROJECT SPECIFICATIONS FOR ALL INFORMATION RELATED TO ALTERNATES INCLUDED IN THE PROJECT.

- ALTERNATE #1:** GENERATOR UPGRADES
- ALTERNATE #2:** ADDITIONAL PLANTINGS
- ALTERNATE #1:** SECOND COMMERCIAL KITCHEN

PROJECT NARRATIVE

THIS AGRICULTURAL EDUCATION CAMPUS WILL BE KNOWN AS THE FARM, FOOD AND FAMILY EDUCATION CENTER (F3EC) AND WILL HAVE THE MISSION OF BEING A DYNAMIC, INNOVATIVE, AND COLLABORATIVE PLACE FOR PEOPLE AND ORGANIZATIONS TO BUILD FARM, FOOD, AND FAMILY SYSTEMS THAT STRENGTHENS ECONOMIES, ENHANCE RESILIENCY, AND BUILDS COMMUNITY. THE F3EC WILL BE SITED IN ASHEBORO, NC, ON HIGHWAY 64 BETWEEN EAST SALISBURY STREET AND VISTA PARKWAY.

THE F3EC WILL BE COMPRISED OF SEVERAL AGRICULTURAL - AND COMMUNITY - FOCUSED BUILDINGS INCLUDING A FOOD AND FAMILY RESOURCE CENTER, A TRAINING AND EVENT CENTER, AN EQUIPMENT WORKSHOP AND SHED, A GREENHOUSE, A RAW MATERIALS STORAGE BUILDING, AND PASTURELAND FOR AGRICULTURAL USES.

F3EC - FOOD AND FAMILY RESOURCE CENTER
 RANDOLPH COUNTY
 1800 US HWY 64 E, ASHEBORO, NC 27203
 22-004



NO.	REVISION	DATE

JOB NUMBER
22-004
 DATE ISSUED
05/10/2023
 PROJECT STATUS
100% CD

SHEET
COVER SHEET

100% CD
 05/10/2023

G000

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ABBREVIATIONS

A.C.T.	ACOUSTICAL TILE	EQ	EQUAL	LAM	LAMINATE	R/A	RETURN AIR
A.F.F.	ABOVE FINISHED FLOOR	EQUIP	EQUIPMENT	LAV	LAVATORY	REBAR	REINFORCING BAR
A.R.A.	AREA OF RESCUE ASSISTANCE	EXIST	EXISTING	M.O.	MASONRY OPENING	REF	REFERENCE
ADJ	ADJACENT	EXT	EXTERIOR	MAT'L	MATERIAL	REINF	REINFORCING
ALUM	ALUMINUM			MAX	MAXIMUM	REQ'D	REQUIRED
APPROX	APPROXIMATE	F.D.	FLOOR DRAIN	MECH	MECHANICAL	REV	REVISION
		F.E.	FIRE EXTINGUISHER	MFR	MANUFACTURER	RM	ROOM
B.E.J.	BUILDING EXPANSION JOINT	F.F.E.	FURNITURE, FIXTURES, EQUIPMENT	MIN	MINIMUM	S.C.	SOLID CORE
BD	BOARD	F.O.E.W.	FACE OF EXISTING WALL	MISC	MISCELLANEOUS	S.S.	STAINLESS STEEL
BLDG	BUILDING	F.O.M.	FACE OF MASONRY	MTL	METAL	SHT	SHEET
BOT	BOTTOM	F.O.S.	FACE OF STUD	N.I.C.	NOT IN CONTRACT	SIM	SIMILAR
BSMT	BASEMENT	F.P.H.B	FREEZE-PROOF HOSE BIB	N.T.S.	NOT TO SCALE	SPEC	SPECIFICATION
		FACT	FACTORY FINISH	NOM	NOMINAL	SQ. FT.	SQUARE FEET
C.F.C.I.	CONTRACTOR-FURNISHED CONTRACTOR-INSTALLED	FE (SM)	SURFACE MOUNTED	O.C.	ON CENTER	SQ. IN.	SQUARE INCH
C.F.O.I.	CONTRACTOR-FURNISHED OWNER-INSTALLED	FE (SR)	SEMI-RECESSED	O.D.	OUTSIDE DIAMETER	STD	STANDARD
		FIN	FINISH	O.F.C.I.	OWNER-FURNISHED CONTRACTOR-INSTALLED	STL	STEEL
C.J.	CONTROL JOINTS	FLR	FLOOR	O.F.O.I.	OWNER-FURNISHED OWNER-INSTALLED	STRUC	STRUCTURAL
C.O.	CLEAN OUT	FLUOR	FLUORESCENT				
C.T.	CERAMIC TILE	FRP	FIBERGLASS REINFORCED PANELS				
CLG	CEILING	FTG	FOOTING				
CLR	CLEAR						
CMU	CONCRETE MASONRY UNIT	G.C.	GENERAL CONTRACTOR				
COL	COLUMN	G.D.S.	GUTTER DOWNSPOUT				
CONC	CONCRETE	GA	GAUGE				
CONST	CONSTRUCTION	GALV	GALVANIZED				
CONT	CONTINUOUS	GWB	GYPSUM WALL BOARD				
COORD	COORDINATE						
CPT	CARPET	H.D.	HEAVY DUTY				
		H.M.	HOLLOW METAL				
DEPT	DEPARTMENT	HDW	HARDWARE				
DIA	DIAMETER	HT	HEIGHT				
DIM	DIMENSION						
DWG	DRAWING	I.D.	INSIDE DIAMETER				
		INSUL	INSULATION				
		INT	INTERIOR				
E.J.	EXPANSION JOINT						
E.W.C.	ELECTRIC WATER COOLER	JT	JOINT				
EA	EACH						
ELEC	ELECTRICAL	K	KIPS				
ELEV	ELEVATION						

SYMBOL LEGEND

ROOM NAME 101	ROOM / AREA
101	DOOR ID.
01 A101	DETAIL
	NORTH ARROW
01 A000	ELEVATION CALLOUT
01 A000	EXTERIOR ELEVATION CALLOUT
01 A000	SECTION CALLOUT
A 12' - 0"	CEILING TYPE CEILING ELEVATION HT.
A	WINDOW TYPE
MXXX	PARTITION TYPE
CWxX	CASEWORK TYPE
RS	ROLLERSHADE

GENERAL ARCHITECTURAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND OTHER REQUIREMENTS NECESSARY FOR CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- SEE SITE, CIVIL, AND LANDSCAPE PLANS FOR CONTINUATION OF WORK OUTSIDE OF BUILDING.
- SEE LIFE SAFETY PLANS FOR FIRE EXTINGUISHER LOCATIONS.

DRAWING LIST

00 - GENERAL	
G000	COVER SHEET
G001	GENERAL ARCHITECTURAL NOTES
G002	KEYNOTES
G003	BUILDING CODE SUMMARY
G004	FFRC - LIFE SAFETY PLAN

02 - STRUCTURAL	
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	SPECIAL INSPECTIONS 1
S004	SPECIAL INSPECTIONS 2
S101	WEST FOUNDATION PLAN
S102	EAST FOUNDATION PLAN
S103	WEST SLAB PLAN
S104	EAST SLAB PLAN
S105	WEST LOW ROOF FRAMING PLAN
S106	EAST LOW ROOF FRAMING PLAN
S107	HIGH ROOF FRAMING PLAN
S108	WEST LOW ROOF DECK PLAN
S109	EAST LOW ROOF DECK PLAN
S110	HIGH ROOF DECK PLAN
S111	ENLARGED FRAMING PLAN
S201	BRACED FRAME ELEVATIONS
S202	BRACED FRAME ELEVATIONS
S203	BRACE FRAME DETAILS
S205	BRACE FRAME DETAILS
S301	SECTIONS
S302	SECTIONS
S303	SECTIONS
S401	MISC PLANS
S501	TYPICAL DETAILS
S502	TYPICAL DETAILS
S503	TYPICAL DETAILS
S504	TYPICAL DETAILS
S505	TYPICAL DETAILS

03 - ARCHITECTURAL SITE	
AS101	ARCHITECTURAL SITE PLAN
AS102	MOCK-UP WALL ASSEMBLY

05 - ARCHITECTURAL	
A001	EXTERIOR ASSEMBLIES
A002	INTERIOR ASSEMBLIES
A003	DOOR SCHEDULES & DETAILS
A004	CURTAIN WALL ELEVATIONS
A005	STOREFRONT ELEVATIONS
A006	OPENING DETAILS
A007	OPENING DETAILS

A008	OPENING DETAILS
A009	OVERHEAD DOOR OPENING DETAILS
A010	OVERHEAD DOOR OPENING DETAILS
A101	FFRC - OVERALL PLAN
A102	FFRC - WEST FLOOR PLAN
A103	FFRC - EAST FLOOR PLAN
A104	FFRC - MECHANICAL ATTIC FLOOR PLAN
A111	FFRC - ROOF PLAN
A201	FFRC - ELEVATIONS
A202	GREENHOUSE - PLAN & ELEVATIONS
A301	BUILDING SECTIONS
A302	BUILDING SECTIONS
A310	WALL SECTIONS
A311	WALL SECTIONS
A312	WALL SECTIONS
A313	WALL SECTIONS
A410	FFRC - OVERALL REFLECTED CEILING PLAN
A411	FFRC - WEST REFLECTED CEILING PLAN
A412	FFRC - EAST REFLECTED CEILING PLAN
A413	ENLARGED REFLECTED CEILING PLANS
A420	CEILING DETAILS
A421	CEILING DETAILS
A510	TYPICAL TOILET & BATH ACCESSORIES
A511	TYPICAL TOILET & BATH ACCESSORIES
A512	FFRC - TOILET PLANS AND ELEVATIONS
A513	FFRC - TOILET PLANS AND ELEVATIONS
A520	FFRC - WEST ENLARGED PLANS AND ELEVATIONS
A521	FFRC - WEST ENLARGED PLANS AND ELEVATIONS
A522	FFRC - WEST ENLARGED PLANS AND ELEVATIONS
A523	FFRC - WEST ENLARGED PLANS AND ELEVATIONS
A530	FFRC - EAST ENLARGED PLANS AND ELEVATIONS
A531	FFRC - EAST ENLARGED PLANS AND ELEVATIONS
A532	FFRC - EAST ENLARGED PLANS AND ELEVATIONS
A533	FFRC - EAST ENLARGED PLANS AND ELEVATIONS
A601	PLAN DETAILS
A602	MECHANICAL ATTIC DETAILS
A610	FOUNDATION DETAILS
A611	EXTERIOR DETAILS
A612	EXTERIOR DETAILS
A613	EXTERIOR DETAILS
A614	EXTERIOR DETAILS
A620	INTERIOR DETAILS
A621	INTERIOR DETAILS
A630	CASEWORK DETAILS
ID101	FFRC - FINISH PLAN - OVERALL
ID102	FFRC - WEST FINISH PLAN
ID103	FFRC - EAST FINISH PLAN
ID110	FLOORING TRANSITION DETAILS & FINISH SCHEDULE
ID111	FINISH LEGEND

07 - FIRE PROTECTION	
FP001	STANDARDS, SYMBOLS, & ABBREVIATIONS
FP002	SITE PLAN
FP101	FFRC - OVERALL PLAN
FP301	ENLARGED PLANS
FP401	DETAILS
FP402	U.L. DETAILS

08 - PLUMBING	
P001	STANDARDS, SYMBOLS, & ABBREVIATIONS
P101	FFRC - OVERALL PLAN
P102A	FFRC - WEST FLOOR PLAN - WATER & GAS
P102B	FFRC - WEST FLOOR PLAN - WASTE
P103A	FFRC - EAST FLOOR PLAN - WATER & GAS
P103B	FFRC - EAST FLOOR PLAN - WASTE
P111	FFRC - ROOF PLAN
P301	ENLARGED PLANS
P302	ENLARGED PLANS
P303	ENLARGED PLANS
P304	ENLARGED PLANS
P305	ENLARGED PLANS
P401	DETAILS
P402	U.L. DETAILS
P501	SCHEDULES
P502	SCHEDULES
P601	DOMESTIC WATER RISER
P602	SAINTARY WASTE & VENT RISER
P603	STORM RISER
P604	GAS RISER

09 - MECHANICAL/HVAC	
H001	STANDARDS, SYMBOLS, & ABBREVIATIONS
H101	FFRC - OVERALL PLAN
H102	FFRC - WEST FLOOR PLAN
H103	FFRC - EAST FLOOR PLAN
H301	ENLARGED PLANS AND ELEVATIONS
H302	ENLARGED PLANS AND ELEVATIONS
H401	DETAILS
H402	DETAILS
H501	CONTROLS
H502	CONTROLS
H601	SCHEDULES

10 - ELECTRICAL	
E001	STANDARDS, SYMBOLS, & ABBREVIATIONS
E002	SITE PLAN
E101	FFRC - OVERALL PLAN
E102	FFRC - WEST FLOOR PLAN - POWER
E103	FFRC - WEST FLOOR PLAN - POWER

E104	FFRC - WEST FLOOR PLAN - LIGHTING
E105	FFRC - WEST FLOOR PLAN - LIGHTING
E201	ELECTRICAL ENLARGED PLANS
E301	ELECTRICAL DETAILS
E302	ELECTRICAL DETAILS
E401	PANEL SCHEDULES
E402	PANEL SCHEDULES
E501	LIGHTING FIXTURE SCHEDULE
E502	LIGHTING FIXTURE DETAILS
E511	FIRE ALARM SYSTEM
E512	FIRE ALARM SYSTEM DETAILS
E521	TELECOMMUNICATION SYSTEM
E531	SECURITY SYSTEM
E601	ELECTRICAL DISTRIBUTION SYSTEM
E602	ELECTRICAL DISTRIBUTION SYSTEM

11 - FOOD SERVICE	
QF100	FOODSERVICE OVERALL EQUIPMENT PLAN
QF101	FOODSERVICE EQUIPMENT DEMO KITCHEN PLAN
QF102	FOODSERVICE EQUIPMENT FOOD HUB PLAN
QF103	FOODSERVICE EQUIPMENT KITCHEN PLAN
QF104	FOODSERVICE ISOMETRIC VIEWS
QF200	FOODSERVICE EQUIPMENT SCHEDULE
QF201	FOODSERVICE EQUIPMENT SCHEDULE CONTINUED
QF300	PLUMBING SCHEDULE & DETAILS
QF301	DEMONSTRATION PLUMBING PLAN
QF302	FOOD HUB PLUMBING PLAN
QF303	KITCHEN PLUMBING PLAN
QF400	ELECTRICAL SCHEDULE & DETAILS
QF401	DEMONSTRATION ELECTRICAL PLAN
QF402	FOOD HUB ELECTRICAL PLAN
QF403	KITCHEN ELECTRICAL PLAN
QF500	KITCHEN VENTILATION PLAN
QF501	EXHAUST HOOD DETAILS
QF502	EXHAUST HOOD DETAILS CONTINUED
QF503	EXHAUST HOOD DETAILS CONTINUED
QF504	EXHAUST HOOD DETAILS CONTINUED
QF505	EXHAUST HOOD DETAILS CONTINUED
QF506	EXHAUST HOOD DETAILS CONTINUED
QF600	DEMONSTRATION SPECIAL CONDITIONS PLAN
QF601	FOOD HUB SPECIAL CONDITIONS PLAN
QF602	KITCHEN SPECIAL CONDITIONS PLAN
QF603	WALK-IN COOLER/FREEZER SHOP DWG
QF604	WALK-IN COOLER/FREEZER SHOP DWG CONTINUED
QF605	FOODSERVICE WALK-IN STANDARD DETAILS
QF700	DEMONSTRATION KITCHEN & FOOD HUB CUSTOM FAB PLAN
QF701	KITCHEN CUSTOM FAB. PLAN & DETAILS
QF702	FOODSERVICE STANDARD DETAILS

QF703	FOODSERVICE STANDARD DETAILS CONTINUED
QF704	FOODSERVICE STANDARD DETAILS CONTINUED
QF705	FOODSERVICE ENLARGED PLANS
QF706	FOODSERVICE ELEVATIONS CONTINUED
QF707	FOODSERVICE ELEVATIONS CONTINUED
QF708	FOODSERVICE ELEVATIONS CONTINUED



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F3EC - FOOD AND FAMILY RESOURCE CENTER
RANDOLPH COUNTY
1800 US HWY 64 E, ASHEBORO, NC 27203

22-004

DOCUMENT FOR REVIEW
NOT FOR CONSTRUCTION

DOCUMENT FOR REVIEW
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

JOB NUMBER
22-004
DATE ISSUED
05/10/2023
PROJECT STATUS
100% CD

SHEET
GENERAL ARCHITECTURAL NOTES

G001

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

NAME OF PROJECT: **F3EC - FOOD AND FAMILY RESOURCE CENTER**
 ADDRESS: **1800 US HWY 64 E, ASHEBORO, NC 27203** ZIP CODE: **27203**
 OWNER/AUTHORIZED AGENT: **PAXTON ARTHURS** PHONE: **336.318.6605** EMAIL: **PAXTON.ARTHURS@RANDOLPHCOUNTYNC.GOV**
 OWNED BY: CITY/COUNTY PRIVATE STATE
 CODE ENFORCEMENT JURISDICTION: CITY **ASHEBORO, NC** COUNTY STATE

CONTACT: KRISTEN M. HESS, AIA

DESIGNER	FIRM	NAME	LIC.#	TELEPHONE.#	E-MAIL
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FIRE ALARM	SALAS O'BRIEN	MATT JOHNSON	35503	984.200.9026	matt.johnson@salasobrien.com
PLUMBING	SALAS O'BRIEN	JUSTIN SARFIN	50567	984.200.9024	justin.sarfin@salasobrien.com
MECHANICAL	SALAS O'BRIEN	ROGER WOODS	15004	984.200.9047	roger.woods@salasobrien.com
SPRINKLER/STAMP	SALAS O'BRIEN	JUSTIN SARFIN	50567	984.200.9024	justin.sarfin@salasobrien.com
STRUCTURAL	LYNCH MYKINS	DAN DONECKER	40415	919.809.8948	ddonecker@lynchmykins.com
RETAINING WALLS > HIGH	-	-	-	-	-
PRE-CAST	-	-	-	-	-
TRUSS	-	-	-	-	-
LANDSCAPE	PROSPECT LA	JEN WAGNER	1791	919.607.0025	jenwagnerlandscape@gmail.com
HAZMAT	-	-	-	-	-

2018 NC BUILDING CODE: NEW BUILDING ADDITION RENOVATION
 1st TIME INTERIOR COMPLETION
 SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
 PHASED CONSTRUCTION - SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

2018 NC EXISTING BUILDING CODE: EXISTING: PRESCRIPTIVE REPAIR CHAPTER 14 ALTERATION: LEVEL I LEVEL II LEVEL III HISTORIC PROPERTY CHANGE OF USE

CONSTRUCTED (date): - **CURRENT OCCUPANCY(S) (Ch. 3):** -
RENOVATED (date): - **PROPOSED OCCUPANCY(S) (Ch. 3):** BUSINESS/A3 ASSEMBLY

RISK CATEGORY (Table 1604.5): **CURRENT:** I II III IV **PROPOSED:** I II III IV

CONSTRUCTED (date): - **ORIGINAL USE(S) (Ch. 3):** - **PROPOSED USE(S) (Ch. 3):** BUSINESS/A3 ASSEMBLY
RENOVATED (date): - **CURRENT USE(S) (Ch. 3):** -

BASIC BUILDING DATA
 CONSTRUCTION TYPE: I-A II-A III-A IV-A V-A
 I-B II-B III-B V-B
 (check all that apply)
 SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 13D
 STAMP/PIPES: NO YES CLASS I II III WET DRY
 FIRE DISTRICT: NO YES
 FLOOD HAZARD AREA: NO YES
 SPECIAL INSPECTIONS REQUIRED: NO YES (CONTACT THE LOCAL INSPECTION JURISDICTION FOR ADDITIONAL PROCEDURES AND REQUIREMENTS.)

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	CANOPY (SQ FT)	SUB-TOTAL
1st FLOOR	-	27,808	623	28,431 SF
TOTAL				28,431 SF

ALLOWABLE AREA
PRIMARY OCCUPANCY CLASSIFICATION(S):
 ASSEMBLY A-1 A-2 A-3 A-4 A-5
 BUSINESS
 EDUCATIONAL
 FACTORY F-1 MODERATE F-2 LOW
 HAZARDOUS H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM
 INSTITUTIONAL I-1 CONDITION 1 2
 I-2 CONDITION 1 2
 I-3 CONDITION 1 2 3 4 5
 I-4
 MERCANTILE
 RESIDENTIAL R-1 R-2 R-3 R-4
 STORAGE S-1 MODERATE S-2 LOW HIGH-PILED
 PARKING GARAGE OPEN ENCLOSED REPAIR GARAGE
 UTILITY AND MISCELLANEOUS

ACCESSORY OCCUPANCY CLASSIFICATION(S): -
INCIDENTAL USES (Table 509): -
SPECIAL USES (Chapter 4 - List Code Sections): -
SPECIAL PROVISIONS (Chapter 5 - List Code Sections): -
MIXED OCCUPANCY: NO YES
 SEPARATION: - HR. EXCEPTION: -

NON-SEPARATED USE (508.3) - THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.
 SEPARATED USE (508.4) - SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1.00 \quad \text{AREA} \quad \dots + \dots = X \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR FRONTAGE INCREASE 1,5	(D) ALLOWABLE AREA PER STORY OR UNLIMITED 2,3
1	A-3	27,808 SF	38,000 SF	6,745 SF	44,745 SF
1	B		92,000 SF		
1	F-1		62,000 SF		

- Frontage area increases from Section 506.3 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = 857 (F)
 - Total building perimeter = 897 (P)
 - Ratio (F/P) = 0.96 (F/P)
 - W = Minimum width of public way = 30 ft (W)
 - Percent of frontage increase formula: $I_i = 100(F/P - 0.25) \times W/30 = \underline{0.71}$ (%)
- Unlimited area applicable under conditions of section 507.
- Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- The maximum area of open parking garages must comply with Table 406.5.4.
- Frontage increase is based on the un sprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
BUILDING HEIGHT IN FEET (Table 504.3) ²	75	30	-
BUILDING HEIGHT IN STORIES (Table 504.4) ³	3	1	-

- Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1.
- The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
			REQ'D	PROVIDED (w/ REDUCTION)				
STRUCTURAL FRAME, INCLUDING COLUMNS, GRIDERS, TRUSSES	-	0	-	-	-	-	-	-
BEARING WALLS	-	-	-	-	-	-	-	-
EXTERIOR	-	N/A	-	-	-	-	-	-
NORTH	-	-	-	-	-	-	-	-
EAST	-	-	-	-	-	-	-	-
WEST	-	-	-	-	-	-	-	-
SOUTH	-	-	-	-	-	-	-	-
INTERIOR	-	-	-	-	-	-	-	-
NONBEARING WALLS AND PARTITIONS	-	0	-	-	-	-	-	-
EXTERIOR WALLS	>30'	0	-	-	-	-	-	-
NORTH	>30'	0	-	-	-	-	-	-
EAST	>30'	0	-	-	-	-	-	-
WEST	>30'	0	-	-	-	-	-	-
SOUTH	>30'	0	-	-	-	-	-	-
INTERIOR	21'	0	-	-	-	-	-	-
INTERIOR WALLS & PARTITIONS	-	0	-	-	-	-	-	-
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	-	0	-	-	-	-	-	-
FLOOR CEILING ASSEMBLY	-	0	-	-	-	-	-	-
COLUMNS SUPPORTING FLOORS	-	0	-	-	-	-	-	-
ROOF CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS	-	0	-	-	-	-	-	-
ROOF CEILING ASSEMBLY	-	0	-	-	-	-	-	-
COLUMNS SUPPORTING ROOF	-	0	-	-	-	-	-	-
SHAFT ENCLOSURES - EXIT	-	N/A	-	-	-	-	-	-
SHAFT ENCLOSURES - OTHER	-	0	-	-	-	-	-	-
CORRIDOR SEPARATION	-	0	-	-	-	-	-	-
OCCUPANCY/FIRE BARRIER SEPARATION	-	N/A	-	-	-	-	-	-
PARTY/FIRE WALL SEPARATION	-	N/A	-	-	-	-	-	-
SMOKE BARRIER SEPARATION	-	N/A	-	-	-	-	-	-
SMOKE PARTITION	-	N/A	-	-	-	-	-	-
TENANT / DWELLING UNIT / SLEEPING UNIT SEPARATION	-	N/A	-	-	-	-	-	-
INCIDENTAL USE SEPARATION	-	N/A	-	-	-	-	-	-

* Indicates section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
20 OR GREATER	UNPROTECTED, SPRINKLERED	NO LIMIT	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: NO YES
 EXIT SIGNS: NO YES
 FIRE ALARM: NO YES
 SMOKE DETECTION SYSTEM: NO YES PARTIAL
 CARBON MONOXIDE DETECTION: NO YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET #: G003

- OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
- OCCUPANT LOADS FOR EACH AREA
- EXIT ACCESS TRAVEL DISTANCES (1017)
- COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- DEAD END LENGTHS (1020.4)
- CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- MAX. CALCULATED OCC. LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
- ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR

LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)

LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES

NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS PROVIDED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	-	-	-	-	-

NOT APPLICABLE

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132' ACCESS AISLE	8' ACCESS AISLE	
CAMPUS	359	367	7	1	1	9
TOTAL	359	367	7	1	1	9

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
NEW	2	6	1	4	4	4	1	1	1	2	2	
REQ'D	2	7	1*	3	4	4	1*	0	1	1	1	

*PER NCSBC 2902.1.2, FAMILY/ASSISTED USE RESTROOM (UNISEX) FIXTURES ARE COUNTED TOWARDS FEMALE COUNT.

SPECIAL APPROVALS
 SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC, ETC., DESCRIBE BELOW)
 - DEPARTMENT OF INSURANCE, CITY OF ASHEBORO

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING COMPLIES WITH CODE: NO YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

EXEMPT BUILDING: NO YES (PROVIDE CODE OR STATUTORY REFERENCE): -
 CLIMATE ZONE: 3A 4A 5A
 METHOD OF COMPLIANCE: ENERGY CODE PERFORMANCE PRESCRIPTIVE
 ASHRAE 90.1 PERFORMANCE PRESCRIPTIVE
 (IF "OTHER" SPECIFY SOURCE HERE) -

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

ROOF / CEILING ASSEMBLY (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: STANDING SEAM MTL ROOF OVER POLYISO RIGID INSUL ON STEEL DECK
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: R-25
 SKYLIGHTS IN EACH ASSEMBLY: N/A
 U-VALUE OF SKYLIGHT: N/A
 TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: N/A

EXTERIOR WALLS (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: MASONRY CAVITY WALL w/ CONT. RIGID INSUL.
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: R-7.5 ci, R-15 batt
 OPENINGS (WINDOWS OR DOORS WITH GLAZING)
 U-VALUE OF ASSEMBLY: 0.45
 SOLAR HEAT GAIN COEFFICIENT: 0.4
 PROJECTION FACTOR: 0
 DOOR R-VALUES: ENTRANCE - 0.77
OTHERS - 0.45

WALLS BELOW GRADE (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: N/A
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: -

FLOORS OVER UNCONDITION SPACE (EACH ASSEMBLY)
 DESCRIPTION OF ASSEMBLY: N/A
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: -

FLOORS SLAB ON GRADE
 DESCRIPTION OF ASSEMBLY: SLAB ON GRADE WITH TURNDOWN
 U-VALUE OF TOTAL ASSEMBLY: -
 R-VALUE OF INSULATION: R-7.5 AT EXTERIOR FACE OF TURNDOWN
 HORIZONTAL/VERTICAL REQUIREMENT: VERTICAL
 SLAB HEATED: NO

STRUCTURAL SUMMARY

DESIGN LOADS:
 IMPORTANCE FACTORS: SNOW (Is) 1.0
 SEISMIC (Ie) 1.0
 LIVE LOADS: ROOF 20 psf
 MEZZANINE 150 psf
 FLOOR 100 psf
 GROUND SNOW LOAD: 15 psf
 WIND LOAD: ULTIMATE WIND SPEED 120 mph (ASCE-7)
 EXPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY: A B C D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
 RISK CATEGORY (Table 1604.5) I II III IV
 SPECTRAL RESPONSE ACCELERATION Ss 0.188 %g S1 0.089 %g
 SITE CLASSIFICATION (ASCE 7) A B C D

DATA SOURCE: Field Test Presumptive Historical Data
 BASIC STRUCTURAL SYSTEM Bearing Wall Dual w/ Special Moment Frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum

ANALYSIS PROCEDURE: Simplified Equivalent Lateral Force Dynamic
 ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED? YES NO

LATERAL DESIGN CONTROL: EARTHQUAKE WIND

SOIL BEARING CAPACITIES
 FIELD TEST (provide copy of test report) 2500 psf
 PRESUMPTIVE BEARING CAPACITY - psf
 PILE SIZE, TYPE, AND CAPACITY -

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE: 2017 ASHRAE FUNDAMENTALS, RANDOLPH COUNTY, CLIMATE ZONE: 3A
 WINTER DRY BULB: 18 DEGREES F
 SUMMER DRY BULB: 91.5 DEGREES F

INTERIOR DESIGN CONDITIONS:
 WINTER DRY BULB: 70 DEGREES F
 SUMMER DRY BULB: 75 DEGREES F
 RELATIVE HUMIDITY 50%

BUILDING HEATING LOAD: 840 MBH
 BUILDING COOLING LOAD: 78 TONS

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY
 DESCRIPTION OF UNIT: -
 HEATING EFFICIENCY: -
 COOLING EFFICIENCY: -
 SIZE CATEGORY OF UNIT: -
 BOILER
 SIZE CATEGORY, IF OVERSIZED, STATE REASON: -
 CHILLER
 SIZE CATEGORY, IF OVERSIZED, STATE REASON: -
 LIST EQUIPMENT EFFICIENCIES: -

ELECTRICAL SUMMARY

ELECTRICAL SYSTEMS AND EQUIPMENT:

METHOD OF COMPLIANCE: ENERGY CODE PERFORMANCE PRESCRIPTIVE
 ASHRAE 90.1 PERFORMANCE PRESCRIPTIVE

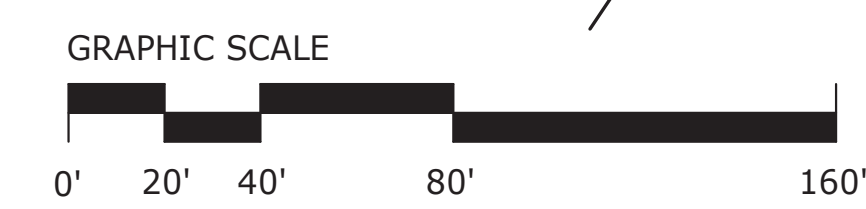
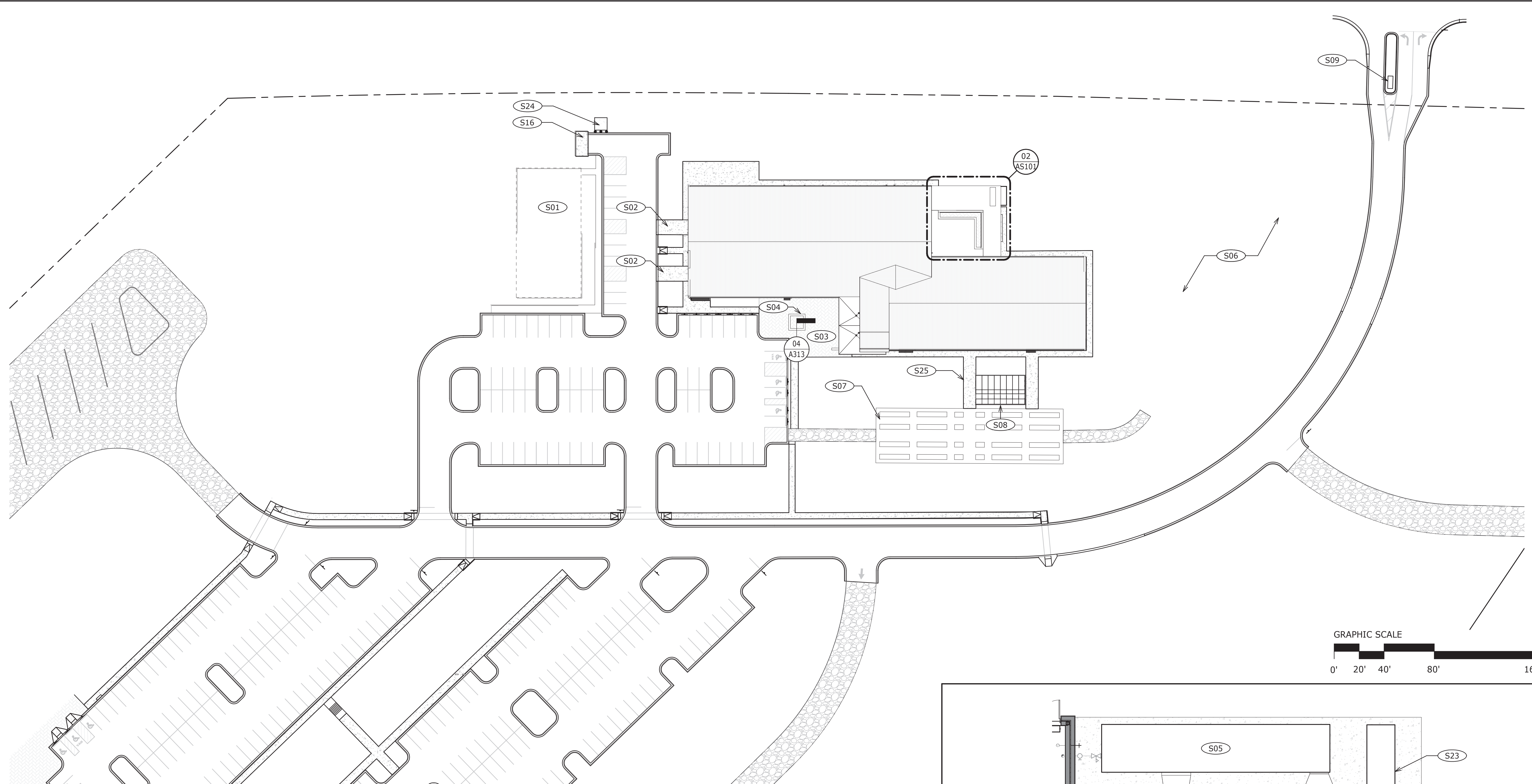
LIGHTING SCHEDULE: (each fixture type)
 LAMP TYPE REQUIRED IN FIXTURE
 NUMBER OF LAMPS IN FIXTURE
 BALLAST TYPE USED IN THE FIXTURE
 NUMBER OF BALLASTS IN FIXTURE
 TOTAL WATTAGE PER FIXTURE
 TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE)
 TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED

ADDITIONAL EFFICIENCY PACKAGE OPTIONS
 (WHEN USING THE 2018 NCECC, NOT REQUIRED FOR ASHRAE 90.1)
 C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
 C406.3 REDUCED LIGHTING POWER DENSITY
 C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
 C406.5 ON-SITE RENEWABLE ENERGY
 C406.6 DEDIC



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F3EC - FOOD AND FAMILY RESOURCE CENTER
RANDOLPH COUNTY
1800 US HWY 64 E, ASHEBORO, NC 27203
22-004



01 ARCHITECTURAL SITE PLAN
AS101/ 1" = 40'-0"

KEYNOTES

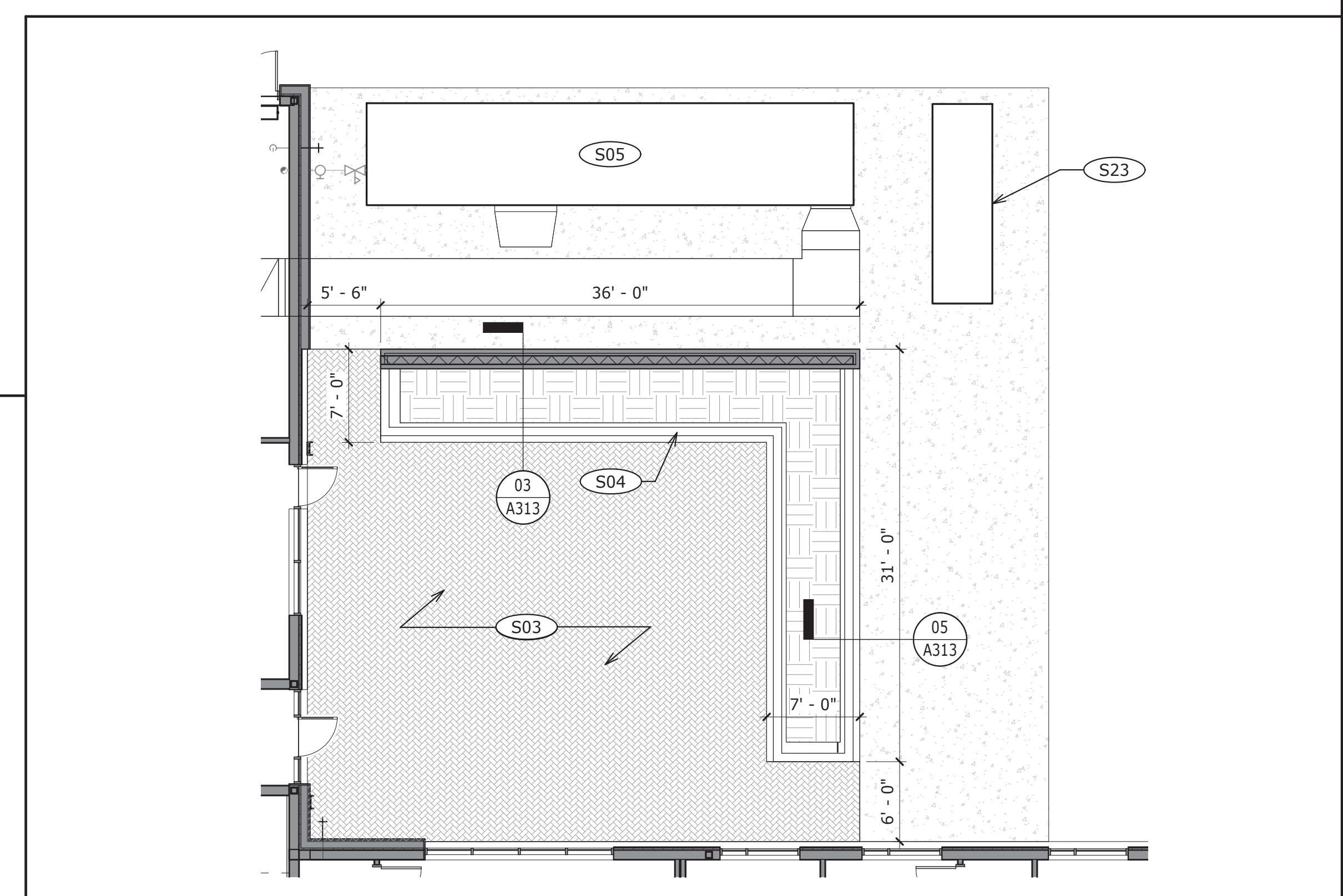
- S01 SPACE RESERVED FOR FUTURE MAKERSPACE
- S02 CONCRETE LOADING RAMP, SEE CIVIL
- S03 PAVER COURTYARD, SEE LANDSCAPE DWGS.
- S04 STONE VENEER SITE WALL/PLANTER, SEE DETAILS.
- S05 HVAC UNIT AT OUTDOOR MECHANICAL YARD, SEE HVAC DWGS.
- S06 FUTURE ORCHARD SPACE
- S07 DEMONSTRATION GARDENS, SEE LANDSCAPE DWGS.
- S08 GREENHOUSE
- S09 FUTURE MONUMENTAL SIGN AT ENTRANCE MEDIAN
- S16 DUMPSTER LOCATION
- S23 ALTERNATE - GENERATOR AT OUTDOOR MECHANICAL YARD, SEE ELEC. DWGS
- S24 BUILDING TRANSFORMER LOCATION, SEE ELEC.
- S25 PEDESTRIAN CONCRETE SIDEWALK, SEE LANDSCAPE DWGS.

SITE PLAN NOTES

1. ARCHITECTURAL SITE PLAN FOR REFERENCE ONLY. REFER TO CIVIL/LANDSCAPE DRAWINGS FOR FULL SITE INFORMATION.

SITE PLAN LEGEND

- GRAVEL



02 ENLARGED PLAN - NORTH PLAZA
AS101/ 1/8" = 1'-0"

DOCUMENT FOR REVIEW
NOT FOR CONSTRUCTION

DOCUMENT FOR REVIEW
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

JOB NUMBER
22-004
DATE ISSUED
05/10/2023
PROJECT STATUS
100% CD

SHEET
ARCHITECTURAL SITE PLAN

AS101

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GENERAL NOTES:

- THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.
- THE WORK OUTLINED IN THE BUILDING CODE IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN THE BUILDING CODE.
- THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
- DISCREPANCIES BETWEEN DRAWINGS, BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, OR WITHIN THE SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER DURING THE BIDDING PROCESS IN TIME TO PERMIT CLARIFICATION BY ADDENDUM. IF INCONSISTENCIES, DISCREPANCIES OR CONTRADICTIONS IN THE CONTRACT DOCUMENTS ARE DISCOVERED AFTER THE CLOSE OF BIDDING QUESTIONS, THE CONTRACTOR MUST BE DEEMED BY SUBMITTAL OF THEIR BID, TO HAVE BID THE MOST COSTLY AS TO LABOR, MATERIALS, DURATION, SEQUENCE AND METHOD OF CONSTRUCTION TO PROVIDE THE WORK.
- PRIOR TO ISSUING THE STRUCTURAL DRAWINGS FOR ANY PURPOSE, AUTHORIZATION MUST BE OBTAINED FROM THE STRUCTURAL ENGINEER OF RECORD. WHEN AUTHORIZED, THE DOCUMENTS THAT ARE RELEASED MUST BE CLEARLY IDENTIFIED WITH THE AUTHORIZED PURPOSE AND MUST INCLUDE THE DATE OF RELEASE.
- DESIGN CRITERIA:

CLASSIFICATION OF BUILDING RISK CATEGORY II

SUPER IMPOSED ROOF DEAD LOADS - UNIFORM:

1 1/2" INSULATION AND ROOF MEMBRANE	3 PSF
METAL DECK	3 PSF
CEILING	2 PSF
SPRINKLERS	3 PSF
DUCTS, LIGHTS, MISC. MECHANICAL	4 PSF

SUPER IMPOSED FLOOR DEAD LOADS - UNIFORM:

FLOOR FINISH	3 PSF
CEILING	2 PSF
SPRINKLERS	3 PSF
DUCTS, LIGHTS, MISC. MECHANICAL	3 PSF
COLLATERAL	2 PSF

LIVE LOADS - UNIFORM:

SLAB ON GRADE	100 PSF
MEZZANINE	150 PSF
ROOF	20 PSF

LIVE LOAD REDUCTION OF THE UNIFORMLY DISTRIBUTED FLOOR LIVE LOADS HAS BEEN UTILIZED.

LIVE LOADS - CONCENTRATED:

FLOOR	2,000#
ROOFS	300#

UNLESS OTHERWISE NOTED, CONCENTRATED LOADS ARE APPLIED UNIFORMLY OVER 2'-6" x 2'-6" AREA.

SNOW LOADS:

GROUND SNOW LOAD	15 PSF
SLOPED ROOF LOAD	15 PSF
IMPORTANCE FACTOR (Is)	1.0
THERMAL FACTOR (Ct)	1.0
EXPOSURE FACTOR (Ce)	1.0

WIND LOADS:

ULTIMATE DESIGN WIND SPEED (VULT)	120 MPH
NOMINAL DESIGN (VSD) WIND SPEED	90 MPH
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	±0.18
COMPONENT AND CLADDING PRESSURES:	
WALLS, ZONE 5 (10 SF)	24 PSF, -32 PSF
ROOF, ZONE 3 (10 SF)	16 PSF, -56 PSF
ULTIMATE WIND BASE SHEARS (FOR MWFRS):	
Vx	XX KIPS
Vy	XX KIPS

SEISMIC LOADS:

SITE CLASSIFICATION	C		
SEISMIC DESIGN CATEGORY	B		
IMPORTANCE FACTOR (IE)	1.0		
SPECTRAL RESPONSE ACCELERATIONS:			
Ss	0.188	S1	0.089
SMS	0.226	SM1	0.151
Sps	0.151	SP1	0.100
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE		
LATERAL FORCE RESISTING SYSTEM	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE		
RESPONSE MODIFICATION COEFFICIENT (R)	3.0		
SEISMIC RESPONSE COEFFICIENT (Cs)	0.063		
ULTIMATE SEISMIC BASE SHEAR (V)	XX KIPS		

LATERAL DESIGN CONTROL

CONTROLLING LATERAL LOADS	WIND & SEISMIC
---------------------------	----------------

FOUNDATION NOTES:

- FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT BY ECS SOUTHEAST LLP, DATED DECEMBER 21, 2022.
- PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S SPECIAL INSPECTOR TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE OWNER'S SPECIAL INSPECTOR WHERE UNSATISFACTORY SOILS ARE PRESENT.
- NO UNBALANCED BACKFILLING MUST BE DONE AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.
- CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.
- CONCRETE MUST BE NORMAL WEIGHT [UNLESS OTHERWISE DENOTED AS LW (LIGHTWEIGHT)] AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
A. SLAB-ON-GRADE 3,500 PSI
B. SUPPORTED FLOOR SLABS 4,000 PSI [LW]
C. CONCRETE NOT OTHERWISE NOTED..... 3,000 PSI
- LIGHTWEIGHT CONCRETE MUST HAVE A DRY UNIT WEIGHT OF NOT LESS THAN 110 PCF AND NOT MORE THAN 116 PCF AFTER 28 DAYS WITH 4% TO 7% ENTRAINED AIR.
- REINFORCING MATERIALS MUST BE AS FOLLOWS:
A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
B. WELDED REINFORCING BARS - ASTM A706, GRADE 60.
C. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.
- ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- CONCRETE COVER TO REINFORCING STEEL MUST CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.
- LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.

CONCRETE MASONRY NOTES:

- CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) 530.
- CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND MUST BE MADE WITH NORMAL WEIGHT AGGREGATE. MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY UNITS MUST BE 2,000 PSI AT 28 DAYS.
- COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, fm, MUST BE 2,000 PSI AT 28 DAYS.
- MORTAR MUST BE TYPE 'M' OR 'S' AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.
- GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:
A. PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.
B. PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI, WITH AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.
- REINFORCING STEEL MUST COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.
- ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.
- ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE "TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS."

CONCRETE MASONRY NOTES CONT:

- PROVIDE REINFORCING BARS OF THE GIVEN SIZE AND SPACING SHOWN. LAP CONTINUOUS REINFORCING STEEL 64 BAR DIAMETERS UNLESS OTHERWISE NOTED.
- PROVIDE ONE VERTICAL BAR EACH SIDE OF ALL OPENINGS AND CONTROL JOINTS, AND AT CORNERS AND INTERSECTIONS OF ALL MASONRY WALLS, BOTH BEARING AND NON-BEARING WALLS. SHOW CONTROL JOINT LOCATIONS ON THE REINFORCING STEEL SHOP DRAWINGS.
- PROVIDE REINFORCING STEEL DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM THE SUPPORTING STRUCTURE. DOWELS MUST HAVE STANDARD ACI HOOKS.
- PROVIDE STANDARD 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON CENTER AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.
- PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS.
- PROVIDE BOND BEAM LINTELS OVER OPENINGS IN MASONRY WALLS GREATER THAN 1'-0" WIDE AS SHOWN IN THE TYPICAL DETAILS.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.
 - STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
A. STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A36, Fy = 36 KSI
B. STRUCTURAL STEEL W-SHAPES - ASTM A992, Fy = 50 KSI
C. HOLLOW STRUCTURAL SECTIONS (HSS):
a. SQUARE AND RECTANGULAR - ASTM A500, GRADE C, Fy = 50 KSI
D. ANCHOR RODS - ASTM F1554, GRADE 36
E. HIGH STRENGTH BOLTS - ASTM A325 (TYPICAL UNON)
F. FULLY PRETENSIONED BOLTS - ASTM F1852 (TWIST-OFF TYPE)
G. WASHERS - ASTM F436
H. NUTS - ASTM A563
 - UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE.
 - STRUCTURAL STEEL FRAME IS CONSIDERED AS RESTRAINED FOR FIRE PROTECTION PURPOSES.
 - UNLESS OTHERWISE NOTED, BEAM CONNECTIONS MUST BE AISC "SIMPLE SHEAR CONNECTIONS" WITH ASTM A325 BOLTS. DESIGN CONNECTIONS FOR THE REACTIONS (LRFD FACTORED LOADING) SHOWN ON THE DRAWINGS AND THE MINIMUM NUMBER OF BOLTS SHOWN BELOW. IF NO REACTION IS SHOWN, DESIGN CONNECTIONS FOR REACTIONS AND THE MINIMUM NUMBER OF BOLTS SHOWN BELOW.
- | BEAM SIZE | DESIGN REACTION (LRFD) | MIN # OF BOLTS |
|-----------|------------------------|----------------|
| W8 | 10 KIPS | 2 |
| W10 | 15 KIPS | 2 |
| W12 | 20 KIPS | 3 |
| W14 & W16 | 30 KIPS | 3 |
| W18 | 35 KIPS | 4 |
| W21 | 40 KIPS | 5 |
| W24 | 45 KIPS | 6 |
- HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING EXCEPT FOR THE FOLLOWING CONNECTIONS WHICH MUST BE FULLY PRETENSIONED:
A. ALL FRAMING CONNECTIONS WITH AXIAL LOADS.
B. ALL FRAMING CONNECTIONS AT BRACED FRAMES.
 - FOR STRUCTURAL STEEL CONNECTIONS INDICATED AS "DELEGATED DESIGN", INCLUDE STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THEIR PREPARATION. IN ADDITION, THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS. A REVIEW LETTER, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED.

STRUCTURAL STEEL NOTES CONT:

- DELEGATED DESIGN CONNECTIONS ARE AS FOLLOWS:
A. BRACED FRAMES
B. AXIALLY LOADED CONNECTIONS
- PROVIDE ANGLE FRAMING AROUND OPENINGS IN ROOF DECK LARGER THAN 6 INCHES IN ANY DIMENSION (INCLUDING ROOF DRAINS) PER THE TYPICAL DETAILS.
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.
- COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.
- STRUCTURAL STEEL SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST NOT BE PRIME PAINTED.
- HOT-DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:
A. ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR WALLS.
B. LINTELS AND LINTEL ASSEMBLIES SUPPORTING MASONRY IN EXTERIOR WALLS.
C. ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION.
D. ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- STEEL MEMBERS SHALL BE SPLICED ONLY WHERE INDICATED.

STEEL JOIST NOTES:

- STEEL JOISTS MUST BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.
- STEEL JOISTS DESIGNATED "SP" ON PLANS ARE SPECIAL JOISTS WHICH MUST BE DESIGNED FOR THE SPECIAL CRITERIA INDICATED.
- JOIST BRIDGING MUST CONFORM TO SJI SPECIFICATIONS, INCLUDING BRIDGING REQUIRED FOR JOISTS SUBJECTED TO UPLIFT LOADS. PROVIDE CROSS-BRIDGING AT ENDS OF BRIDGING LINES AND CHANGES IN JOIST DEPTHS AND AT ROLLED STEEL SHAPES RUNNING PARALLEL TO JOISTS. BRIDGING SHOWN MUST BE PROVIDED, IN ADDITION TO THE REQUIRED STANDARD BRIDGING. ENDS OF ALL BRIDGING LINES MUST BE ANCHORED TO WALLS OR BEAMS.
- ROOF JOISTS MUST BE DESIGNED FOR A NET UPLIFT LOAD (LRFD) OR (ULTIMATE) OF 20 PSF.
- ALL JOISTS MUST BE DESIGNED FOR A CONCENTRATED LOAD OF 300 LBS. HUNG FROM THE JOIST TOP OR BOTTOM CHORD AT ANY POINT ALONG THE SPAN.
- STEEL JOISTS SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST NOT BE PRIME PAINTED.
- PERMANENT SUSPENDED LOADS MUST NOT BE SUPPORTED BY JOIST BRIDGING.
- SUBMIT SPRINKLER SHOP DRAWINGS INCLUDING LOADS AND LOCATIONS PRIOR TO FABRICATION OF JOISTS.
- COMPLY WITH OSHA SAFETY STANDARDS FOR THE ERECTION OF STEEL JOISTS.
- THE CONTRACTOR MUST SUBMIT SHOP DRAWINGS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA FOR THE DESIGN OF SPECIAL JOISTS OR JOISTS INDICATED TO COMPLY WITH SPECIFIC LOADING REQUIREMENTS.



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STEEL DECK NOTES:

- STEEL DECK MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI), "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI), "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS."
- STEEL DECK INSTALLATION MUST COMPLY WITH THE FOLLOWING:
 - ROOF DECK: 1 1/2" x 20 GAGE TYPE 'B', PAINTED. UNLESS OTHERWISE NOTED, ATTACH DECK TO SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS IN ALL RIBS WHERE END LAPS OCCUR AND AT 12 INCHES ON CENTER ALONG SUPPORTS WITH A 36/4 PATTERN. FASTEN SIDE LAPS WITH 4 - #10 SELF-TAPPING HEX HEAD SCREWS SPACED EQUALLY BETWEEN SUPPORTS. FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES ON CENTER.
 - COMPOSITE DECK: 2" x 20 GAGE, GALVANIZED. UNLESS OTHERWISE NOTED, ATTACH DECK TO SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES ON CENTER. FASTEN SIDELAPS WITH 2 - #10 SELF-TAPPING HEX HEAD SCREWS SPACED EQUALLY BETWEEN SUPPORTS. FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES ON CENTER.
- STEEL DECK MUST BE INSTALLED PERPENDICULAR TO SUPPORTS AND MUST HAVE A MINIMUM OF THREE CONTINUOUS SPANS. ENDLAPS MUST ONLY OCCUR AT SUPPORTS.
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".
- PERMANENT SUSPENDED LOADS MUST NOT BE SUPPORTED BY STEEL ROOF DECK.
- STEEL DECK SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST BE GALVANIZED.
- SHEAR CONNECTORS FOR COMPOSITE FLOOR SYSTEMS MUST BE 3/4 INCH DIAMETER HEADED STUDS CONFORMING WITH ASTM A108, GRADE 1015 OR 1020. PROVIDE HEADED STUDS AS SHOWN ON PLANS AND DETAILS. NET IN-PLACE LENGTH MUST BE 1 1/2 INCHES ABOVE TOP OF COMPOSITE STEEL DECK.
- CONDUIT AND PIPING MUST NOT BE PLACED IN ELEVATED SLABS.

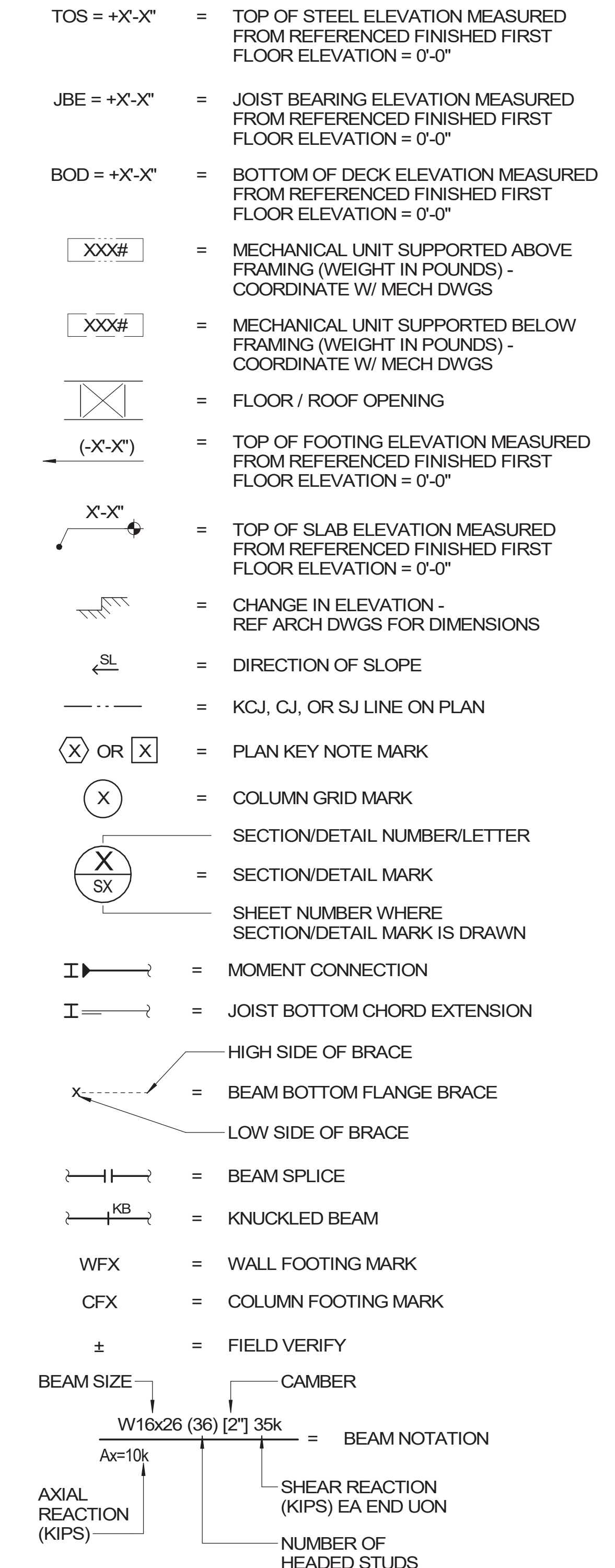
POST-INSTALLED ANCHOR NOTES:

- ALL POST INSTALLED ANCHORS INDICATED ON THE DRAWINGS ARE BY HILTI, INC. AND MUST BE CONSIDERED THE BASIS OF DESIGN PRODUCT. WHERE NOT EXPLICITLY INDICATED IN THE DRAWINGS, THE FOLLOWING ANCHORS/ADHESIVES MUST BE USED:
 - ANCHORAGE TO CONCRETE
 - ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC40-U) WITH STEEL THREADED ROD PER ICC ESR-3187.
 - SCREW ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR-3027.
 - REBAR DOWELING INTO CONCRETE
 - ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:
 - HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM SYSTEM (VC 20-U OR VC 40-U) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.
 - ANCHORAGE TO SOLID GROUTED MASONRY
 - ADHESIVE ANCHORS USE:
 - HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM (ICC PENDING).
 - STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD.
 - MECHANICAL ANCHORS USE:
 - HILTI KWIK HUS EZ SCREW ANCHORS PER ICC ESR 3056.
 - ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY
 - ADHESIVE ANCHORS USE:
 - HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM PER ICCESR-3342.
 - STEEL ANCHOR ELEMENT MUST BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.
 - THE APPROPRIATE SIZE SCREEN TUBE MUST BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.
 - ALTERNATE POST INSTALLED ANCHOR PRODUCTS MAY BE SUBMITTED TO THE ENGINEER FOR REVIEW AND POSSIBLE APPROVAL. ALL SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE. ALTERNATE PRODUCTS MAY REQUIRE MODIFICATIONS TO ANCHOR DIAMETER, SPACING, AND EMBEDMENT.
 - INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
 - THE CONTRACTOR MUST ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.
 - ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
 - EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR MUST LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN OR GPR.
 - ALL POST INSTALLED ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTIONS TO VERIFY INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFERENCE THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS FOR ADDITIONAL INFORMATION.

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR	HVY	HEAVY
ARCH	ARCHITECT	INT	INTERIOR
BD	BAR DIAMETER	JBE	JOIST BEARING ELEVATION
BF	BRACED FRAME	JT	JOINT
BEJ	BUILDING EXPANSION JOINT	KCJ	KEYED CONSTRUCTION JOINT
BLDG	BUILDING	L	LOW
BM	BEAM	LLH	LONG LEG HORIZONTAL
BOD	BOTTOM OF DECK	LLV	LONG LEG VERTICAL
BOT, B	BOTTOM	LSH	LONG SIDE HORIZONTAL
BRG	BEARING	LSV	LONG SIDE VERTICAL
BTWN	BETWEEN	LTWVT	LIGHTWEIGHT
C TO C	CENTER TO CENTER	LWC	LIGHTWEIGHT CONCRETE
CFMF	COLD-FORMED METAL FRAMING	MAS	MASONRY
	CONTROL JOINT	MATL	MATERIAL
CJ	CENTERLINE	MAX	MAXIMUM
CLR	CLEAR	MECH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	MFR	MOMENT FRAME MANUFACTURER
COL	COLUMN	MID	MIDDLE
CONC	CONCRETE	MIN	MINIMUM
CONN	CONNECTION	MOD	MODIFY
CONSTR	CONSTRUCTION	MOS	MIDDEPTH OF SLAB
CONT	CONTINUOUS	NOM	NOMINAL
COORD	COORDINATE	NTS	NOT TO SCALE
CTR	CENTER	OC	ON CENTER
CTRD	CENTERED	OPH	OPPOSITE HAND
CW	CURTAIN WALL	OPNG	OPENING
DBL	DOUBLE	PAF	POWDER ACTUATED FASTENER
DC	DIAPHRAGM CHORD	PAR	PARALLEL
DCJ	DOWELED CONSTRUCTION JOINT	PC	PIECE
	DIAMETER	PEMB	PRE-ENGINEERED METAL BUILDING
DIA, Ø	DIAMETER		
DJ	DOUBLE JOIST		
DWGS	DRAWINGS	PEN	PENETRATE, PENETRATION
EA	EACH	PERP	PERPENDICULAR
EF	EACH FACE	PL	PLATE
EJ	EXPANSION JOINT	R	RADIUS
EL	ELEVATION	REF	REFERENCE, REFER TO
ELEV	ELEVATOR	REINFC	REINFORCE, REINFORCED, REINFORCING
EMBED	EMBEDMENT	REQD	REQUIRED
EOD	EDGE OF DECK	REQMTS	REQUIREMENTS
EOS	EDGE OF SLAB	SCHED	SCHEDULE
EQ	EQUAL	SF	STEPPED FOOTING
EW	EACH WAY	SGB	STEPPED GRADE BEAM
EXP	EXPANSION	SIM	SIMILAR
EXIST	EXISTING	SJ	SAWED JOINT
EXT	EXTERIOR	SL	SLOPE
FD	FLOOR DRAIN	SOG	SLAB-ON-GRADE
FDN	FOUNDATION	SPF	SIDEPLATE FRAME
FO	FACE OF	STD	STANDARD
FF EL	FINISHED FLOOR ELEVATION	TBE	TRUSS BEARING ELEVATION
	FINISH	T&B	TOP & BOTTOM
FIN	FINISHED FLOOR	T&G	TONGUE AND GROOVE
FIN FLR	FINISHED FLOOR	THK	THICKNESS
FOB	FACE OF BUILDING	TOC	TOP OF CONCRETE
FOC	FACE OF CONCRETE	TOF	TOP OF FOOTING
FOM	FACE OF MASONRY	TOM	TOP OF MASONRY
FOS	FACE OF SLAB/ STUD	TOP	TOP OF PEDESTAL
FRMG	FRAMING	TOS	TOP OF STEEL
FTG	FOOTING	TS	THICKENED SLAB
FV, ±	FIELD VERIFY	TYP	TYPICAL
GALV	GALVANIZED	UON	UNLESS OTHERWISE NOTED
GEN	GENERAL	VERT	VERTICAL
GR BM	GRADE BEAM	W/	WITH
H	HIGH	WP	WORKING POINT
HK	HOOK	WSP	WOOD STRUCTURAL PANEL(S)
HORIZ	HORIZONTAL	WWR	WELDED WIRE REINFORCING
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT		

PLAN LEGEND:



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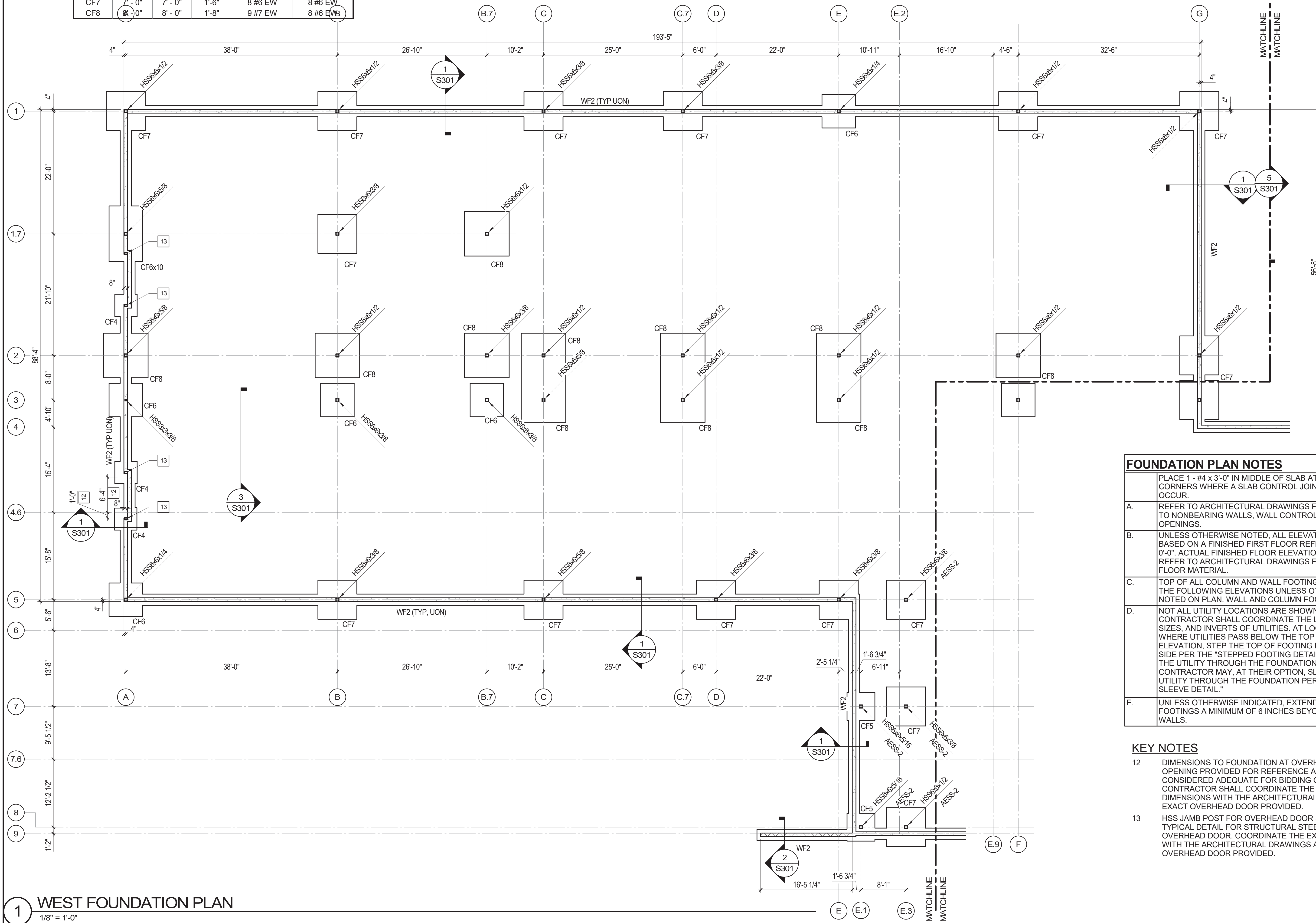
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COLUMN FOOTING SCHEDULE					
MARK	SIZE			REINFORCING	
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP
CF4	4' - 0"	4' - 0"	1'-0"	5 #5 EW	-
CF5	5' - 0"	5' - 0"	1'-2"	6 #5 EW	-
CF6	6' - 0"	6' - 0"	1'-4"	7 #5 EW	-
CF6x10	10' - 0"	6' - 0"	1'-8"	8 #7 LONG, 11 #6 SHORT	8 #7 LONG, 11 #6 SHORT
CF7	7' - 0"	7' - 0"	1'-6"	8 #6 EW	8 #6 EW
CF8	8' - 0"	8' - 0"	1'-8"	9 #7 EW	8 #6 EW

WALL FOOTING SCHEDULE				
MARK	SIZE		REINFORCING	
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE
WF2	2' - 0"	1'-0"	3 #5 BOT	#4 AT 24" OC BOT
WF3	3' - 0"	1'-0"	() #_ BOT	#_ AT _" OC BOT
WF10	10' - 0"	1'-6"	(11) #5 T&B	#5 AT 12" OC T&B



FOUNDATION PLAN NOTES	
	PLACE 1 - #4 x 3'-0" IN MIDDLE OF SLAB AT REENTRANT CORNERS WHERE A SLAB CONTROL JOINT DOES NOT OCCUR.
A.	REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
B.	UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 830.00'. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIAL.
C.	TOP OF ALL COLUMN AND WALL FOOTINGS SHALL BE AT THE FOLLOWING ELEVATIONS UNLESS OTHERWISE NOTED ON PLAN. WALL AND COLUMN FOOTINGS - 1'-4".
D.	NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT THEIR OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "UTILITY SLEEVE DETAIL."
E.	UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 6 INCHES BEYOND ENDS OF WALLS.

KEY NOTES	
12	DIMENSIONS TO FOUNDATION AT OVERHEAD DOOR OPENING PROVIDED FOR REFERENCE AND SHALL BE CONSIDERED ADEQUATE FOR BIDDING ONLY. THE CONTRACTOR SHALL COORDINATE THE EXACT DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND EXACT OVERHEAD DOOR PROVIDED.
13	HSS JAMB POST FOR OVERHEAD DOOR - REFERENCE TYPICAL DETAIL FOR STRUCTURAL STEEL SUPPORT OF OVERHEAD DOOR. COORDINATE THE EXACT DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND EXACT OVERHEAD DOOR PROVIDED.

1 WEST FOUNDATION PLAN
1/8" = 1'-0"



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WEST FOUNDATION PLAN

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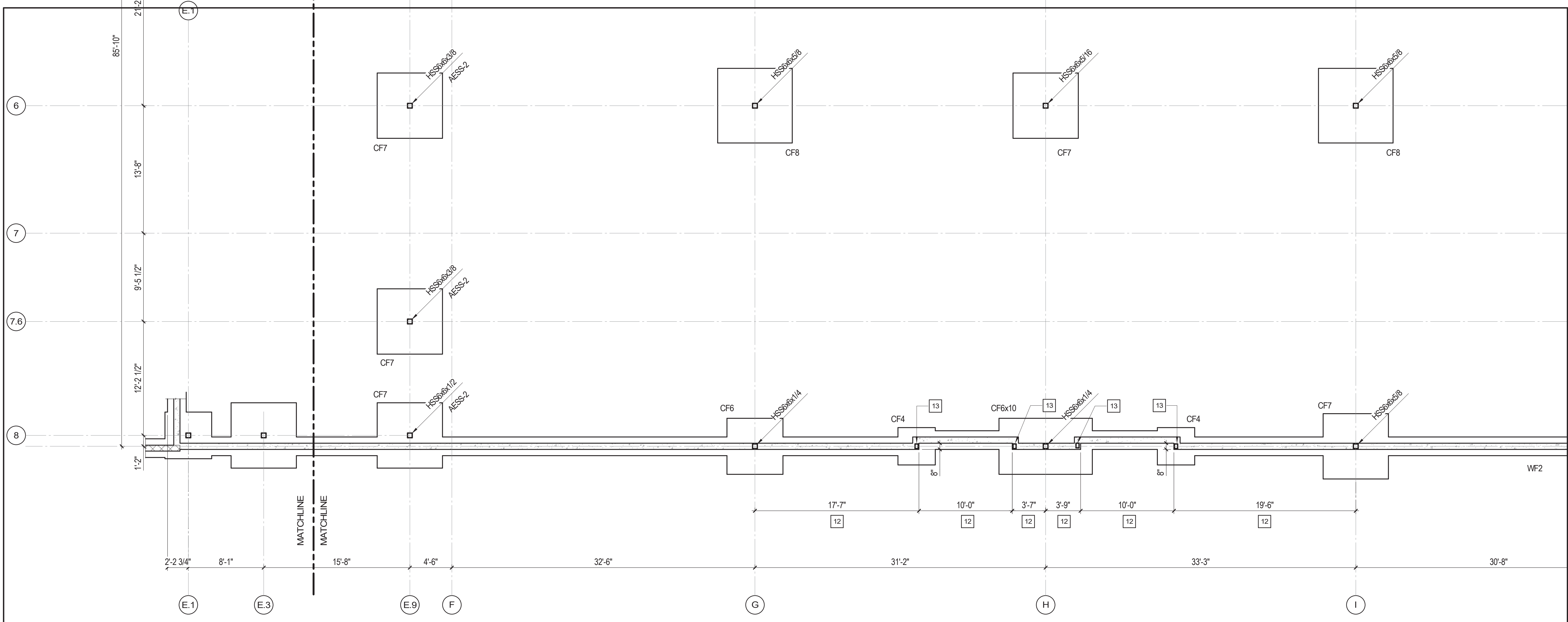


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EAST FOUNDATION PLAN

S102



WALL FOOTING SCHEDULE					
MARK	SIZE		REINFORCING		
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE	
WF2	2' - 0"	1'-0"	3 #5 BOT	#4 AT 24" OC BOT	
WF3	3' - 0"	1'-0"	() #_ BOT	#_ AT _" OC BOT	
WF10	10' - 0"	1'-6"	(11) #5 T&B	#5 AT 12" OC T&B	

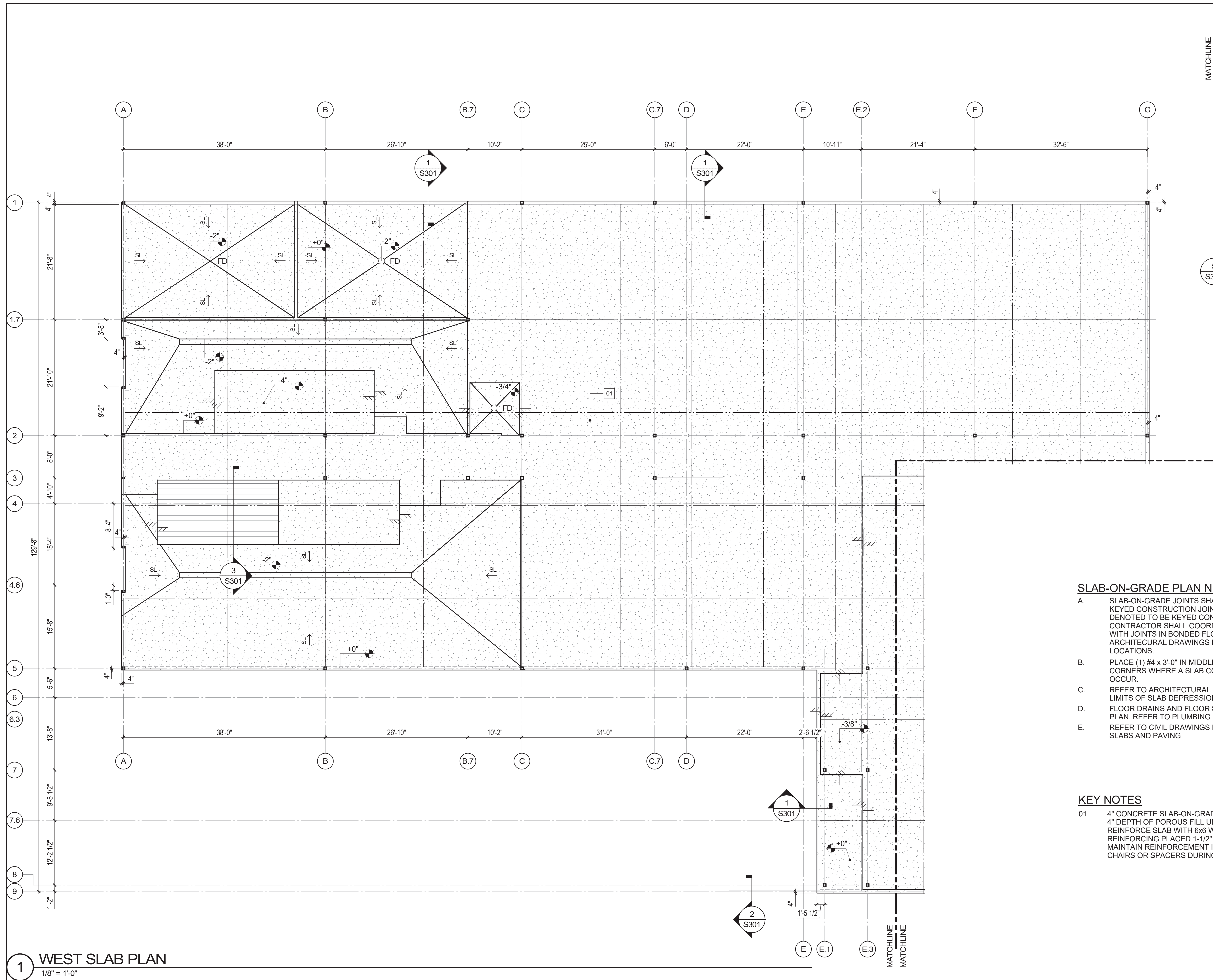
COLUMN FOOTING SCHEDULE					
MARK	SIZE			REINFORCING	
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP
CF4	4' - 0"	4' - 0"	1'-0"	5 #5 EW	
CF5	5' - 0"	5' - 0"	1'-2"	6 #5 EW	
CF6	6' - 0"	6' - 0"	1'-4"	7 #5 EW	
CF6x10	10' - 0"	6' - 0"	1'-8"	8 #7 LONG, 11 #6 SHORT	8 #7 LONG, 11 #6 SHORT
CF7	7' - 0"	7' - 0"	1'-6"	8 #6 EW	
CF8	8' - 0"	8' - 0"	1'-8"	9 #7 EW	

FOUNDATION PLAN NOTES	
	PLACE 1 - #4 x 3'-0" IN MIDDLE OF SLAB AT REENTRANT CORNERS WHERE A SLAB CONTROL JOINT DOES NOT OCCUR.
A.	REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
B.	UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 830.00'. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIAL.
C.	TOP OF ALL COLUMN AND WALL FOOTINGS SHALL BE AT THE FOLLOWING ELEVATIONS UNLESS OTHERWISE NOTED ON PLAN. WALL AND COLUMN FOOTINGS -1'-4".
D.	NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT THEIR OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "UTILITY SLEEVE DETAIL."
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KEY NOTES	
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13	HSS JAMB POST FOR OVERHEAD DOOR - REFERENCE TYPICAL DETAIL FOR STRUCTURAL STEEL SUPPORT OF OVERHEAD DOOR. COORDINATE THE EXACT DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND EXACT OVERHEAD DOOR PROVIDED.

1 EAST FOUNDATION PLAN
3/16" = 1'-0"

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1 WEST SLAB PLAN
1/8" = 1'-0"

SLAB-ON-GRADE PLAN NOTES

- A. SLAB-ON-GRADE JOINTS SHALL BE SAWS JOINTS OR KEYS CONSTRUCTION JOINTS UNLESS SPECIFICALLY DENOTED TO BE KEYS CONSTRUCTION JOINTS. CONTRACTOR SHALL COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.
- B. PLACE (1) #4 x 3'-0" IN MIDDLE OF SLAB AT REENTRANT CORNERS WHERE A SLAB CONTROL JOINT DOES NOT OCCUR.
- C. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS.
- D. FLOOR DRAINS AND FLOOR SINKS ARE NOT SHOWN ON PLAN. REFER TO PLUMBING DRAWINGS FOR LOCATIONS.
- E. REFER TO CIVIL DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING

KEY NOTES

- 01 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6 W2.1xW2.1 WELDED WIRE REINFORCING PLACED 1-1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.

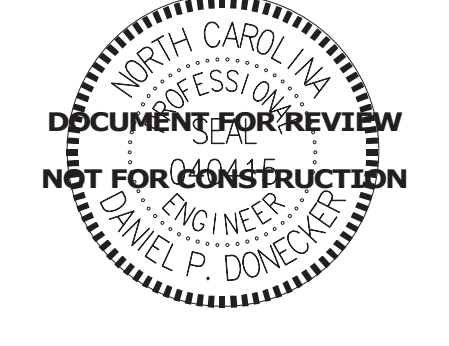


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WEST SLAB PLAN

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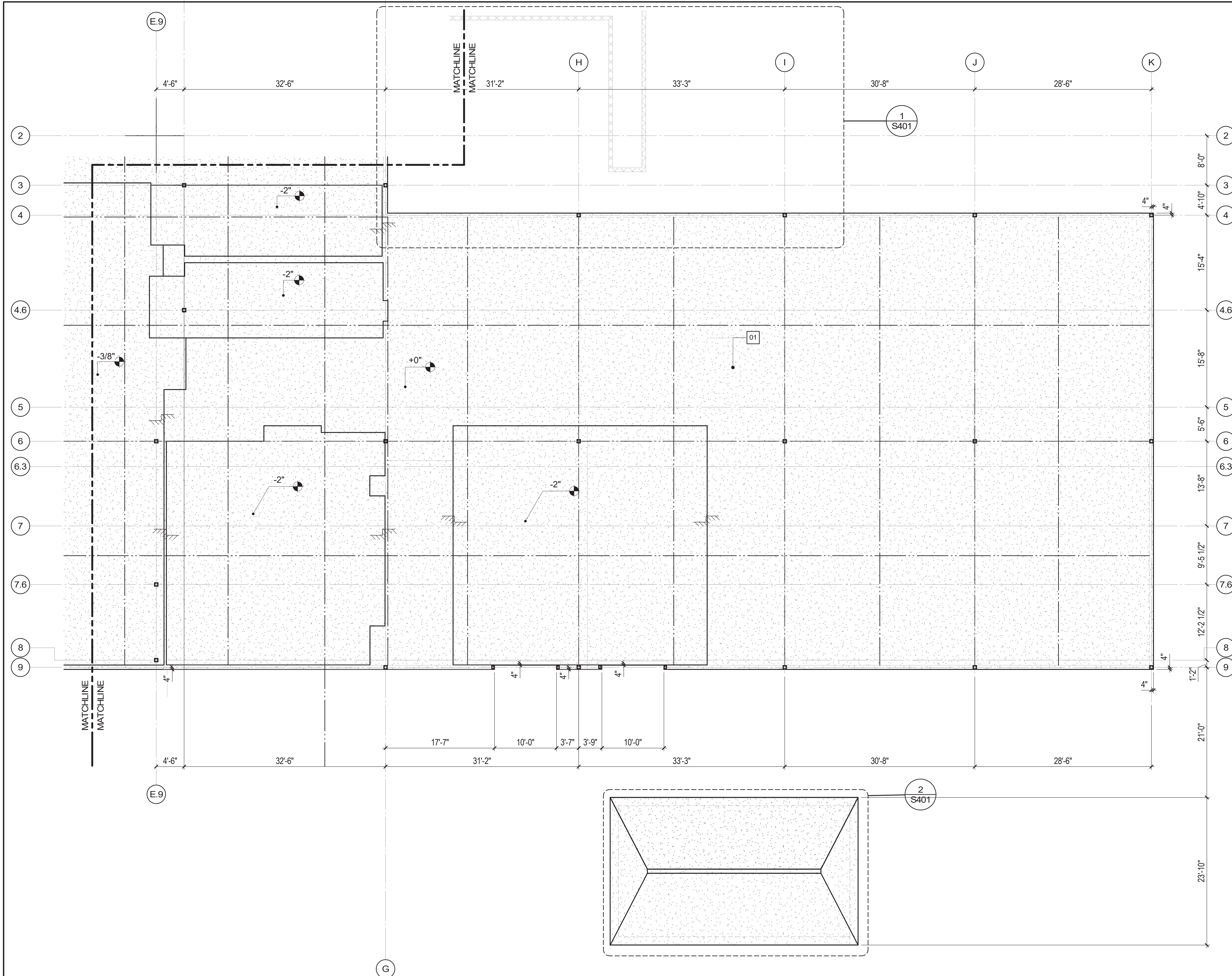


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SLAB-ON-GRADE PLAN NOTES

- A. SLAB-ON-GRADE JOINTS SHALL BE SAWED JOINTS OR KEYED CONSTRUCTION JOINTS UNLESS SPECIFICALLY DENOTED TO BE KEYED CONSTRUCTION JOINTS. CONTRACTOR SHALL COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.
- B. PLACE (1) #4 x 3'-0" IN MIDDLE OF SLAB AT REENTRANT CORNERS WHERE A SLAB CONTROL JOINT DOES NOT OCCUR.
- C. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS.
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KEY NOTES

- 01 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6 W2.1xW2.1 WELDED WIRE REINFORCING PLACED 1-1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.



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SHEET
EAST SLAB PLAN

1 EAST SLAB PLAN
1/8" = 1'-0"

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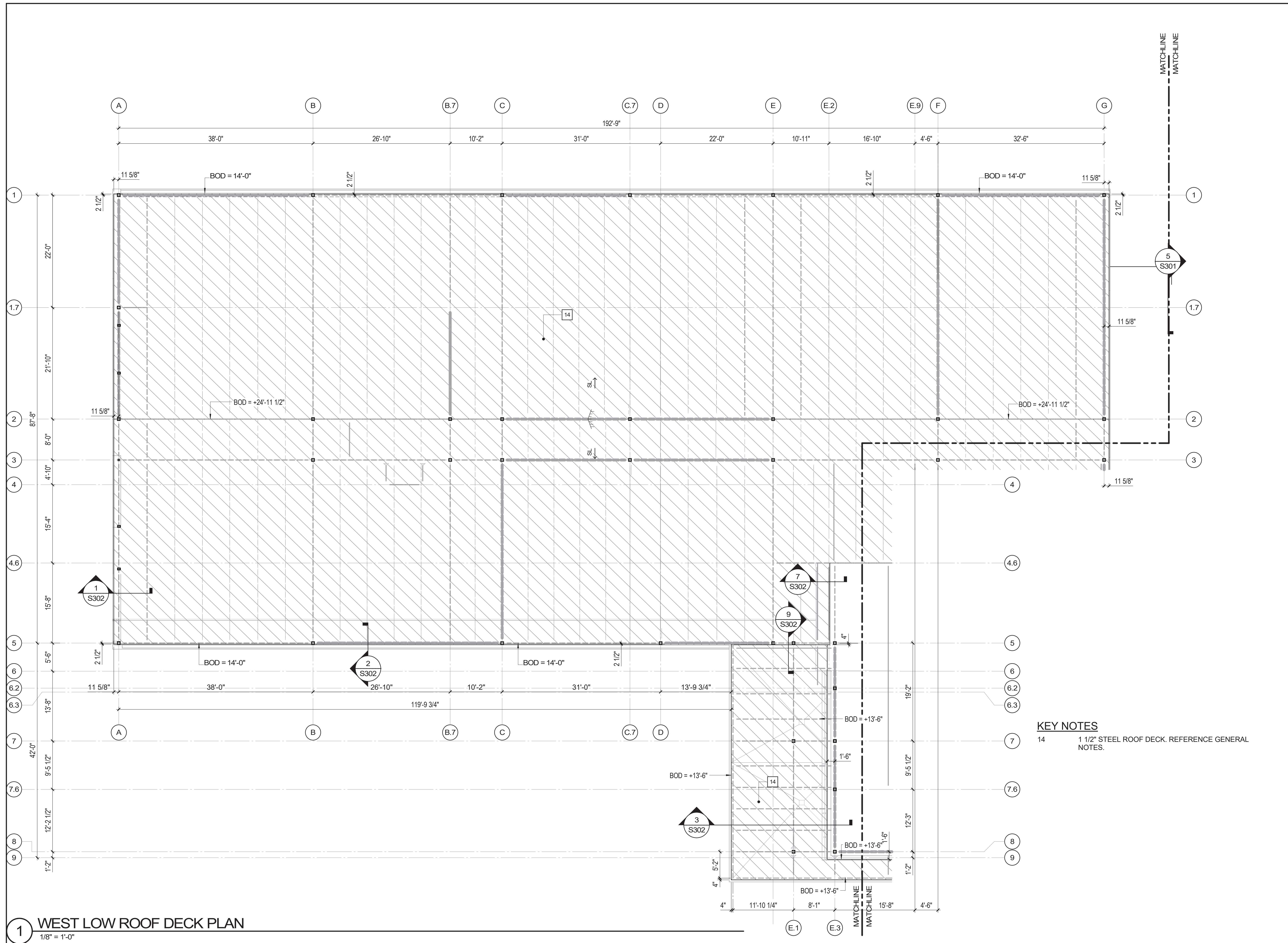


NO.	REVISION	DATE

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SHEET
WEST LOW ROOF DECK PLAN

S108



1 WEST LOW ROOF DECK PLAN
1/8" = 1'-0"

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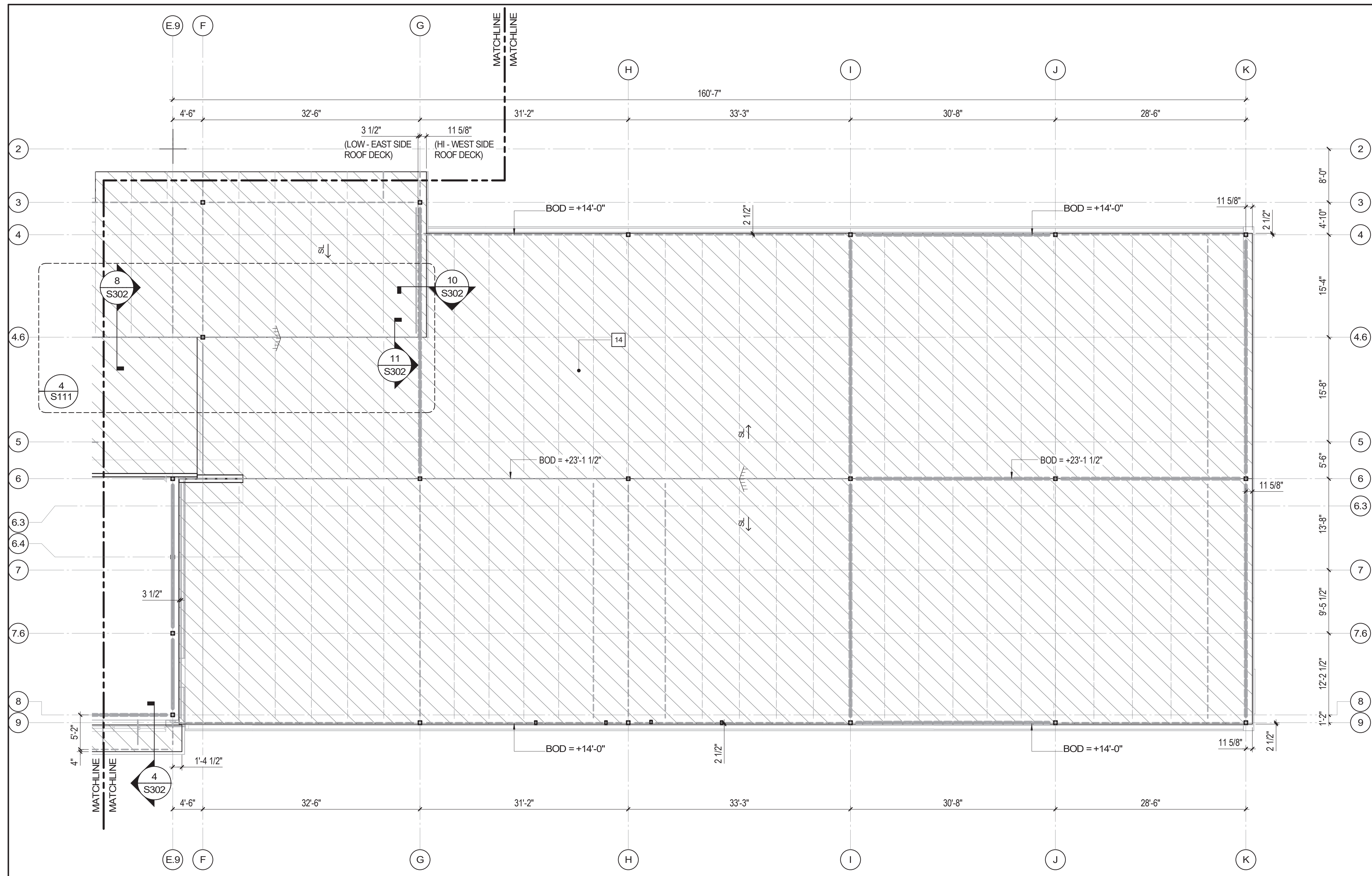


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SHEET
EAST LOW ROOF DECK PLAN

S109



KEY NOTES

14 1 1/2" STEEL ROOF DECK. REFERENCE GENERAL NOTES.

1 EAST LOW ROOF DECK PLAN
1/8" = 1'-0"

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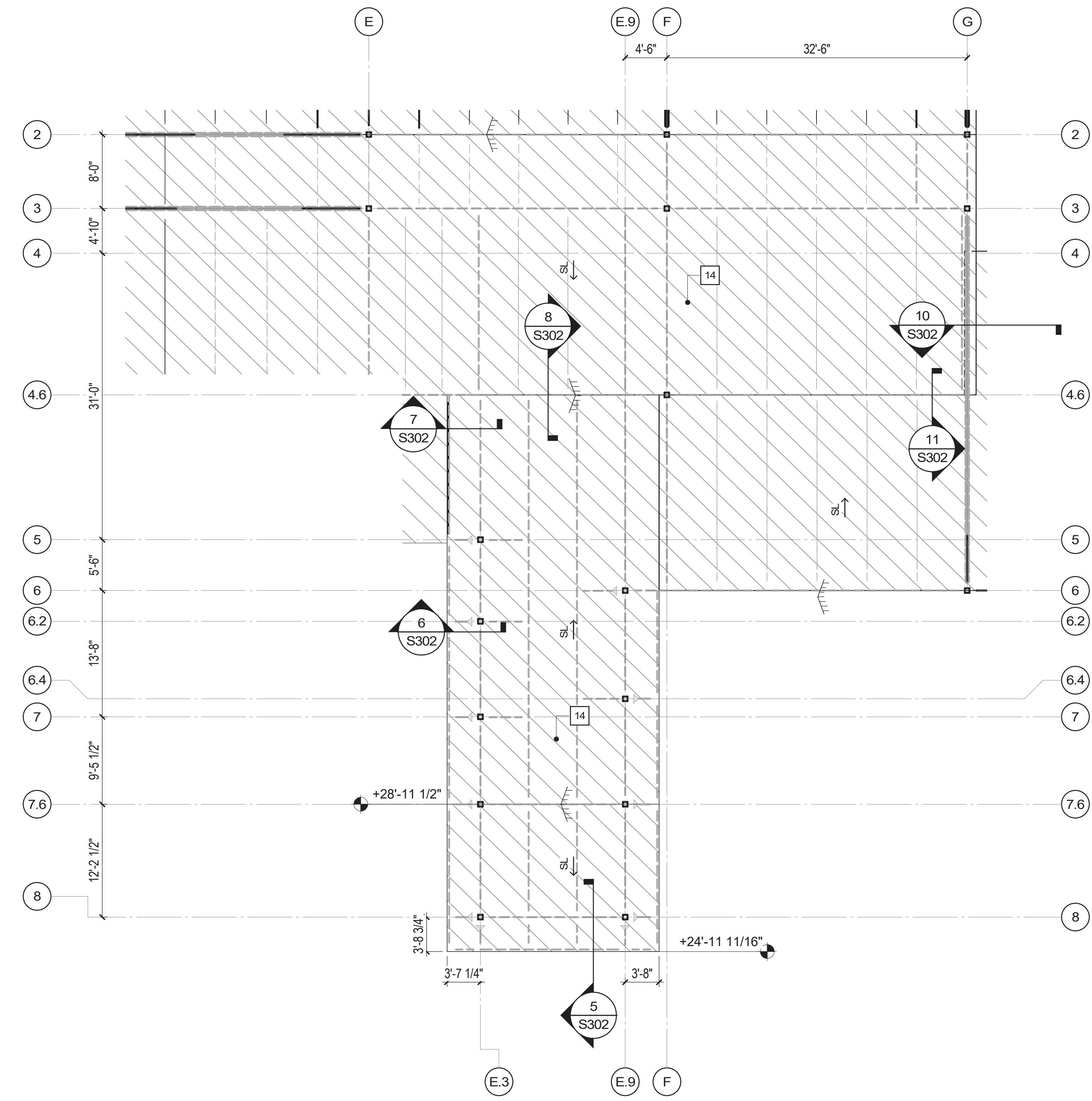


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KEY NOTES

14 1 1/2" STEEL ROOF DECK. REFERENCE GENERAL NOTES.



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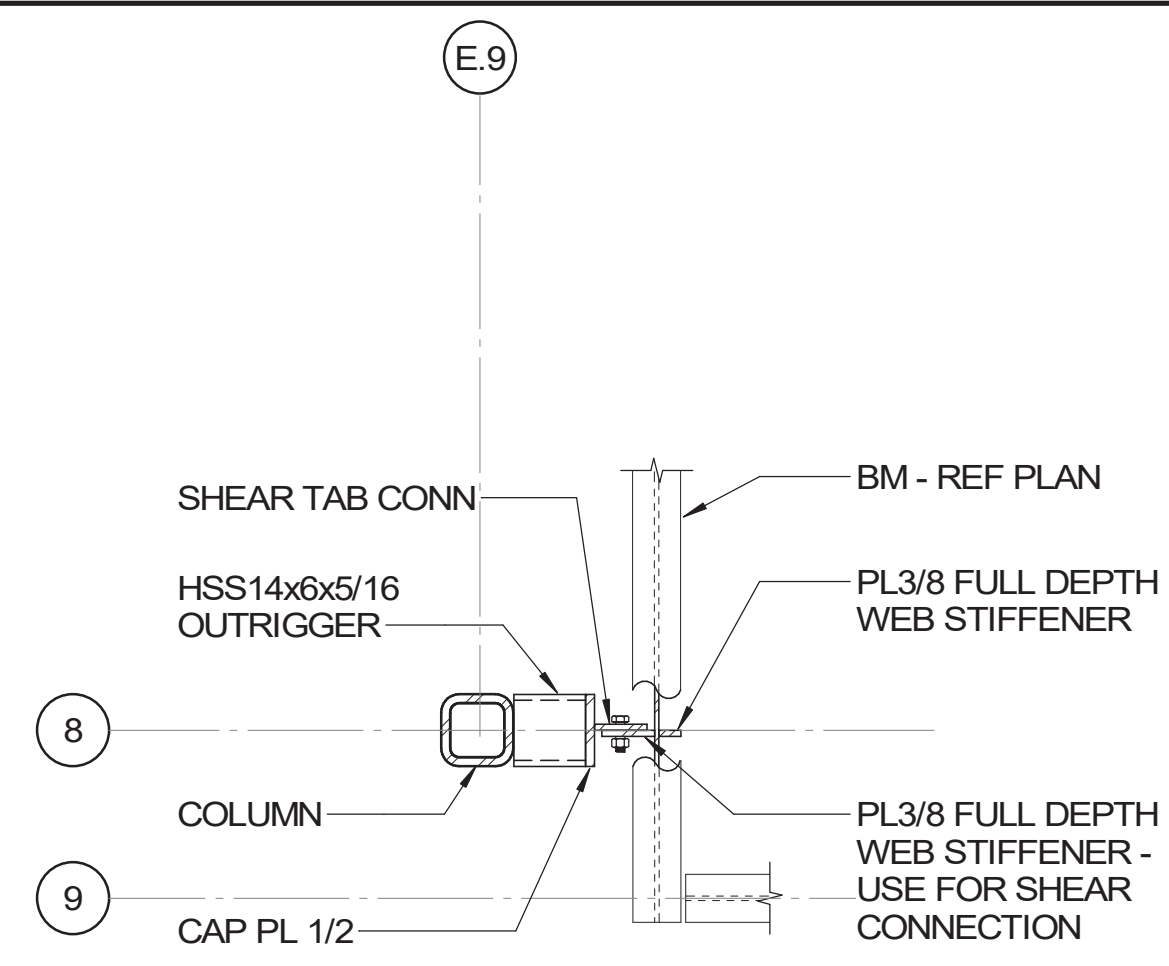
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PROJECT STATUS
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SHEET
HIGH ROOF DECK PLAN

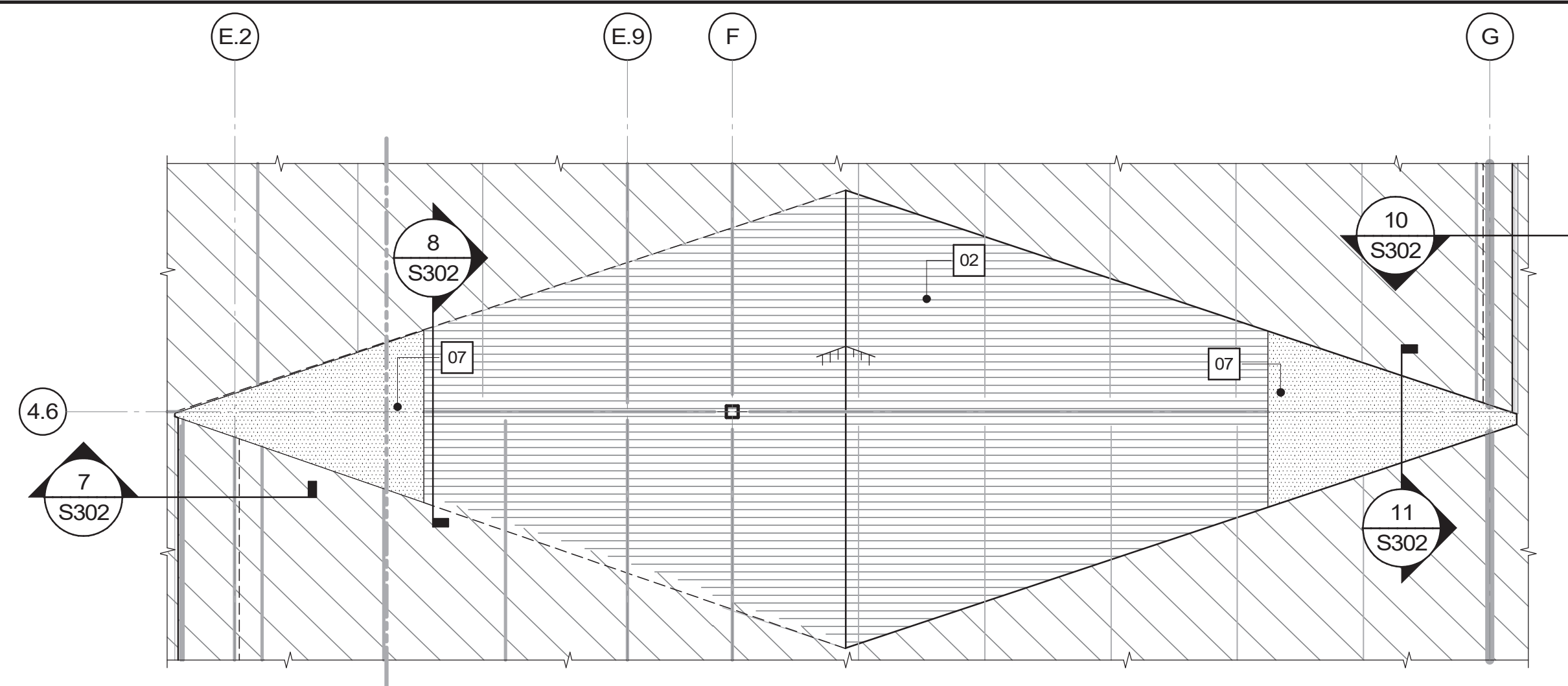
S110

1 HIGH ROOF DECK PLAN
1/8" = 1'-0"

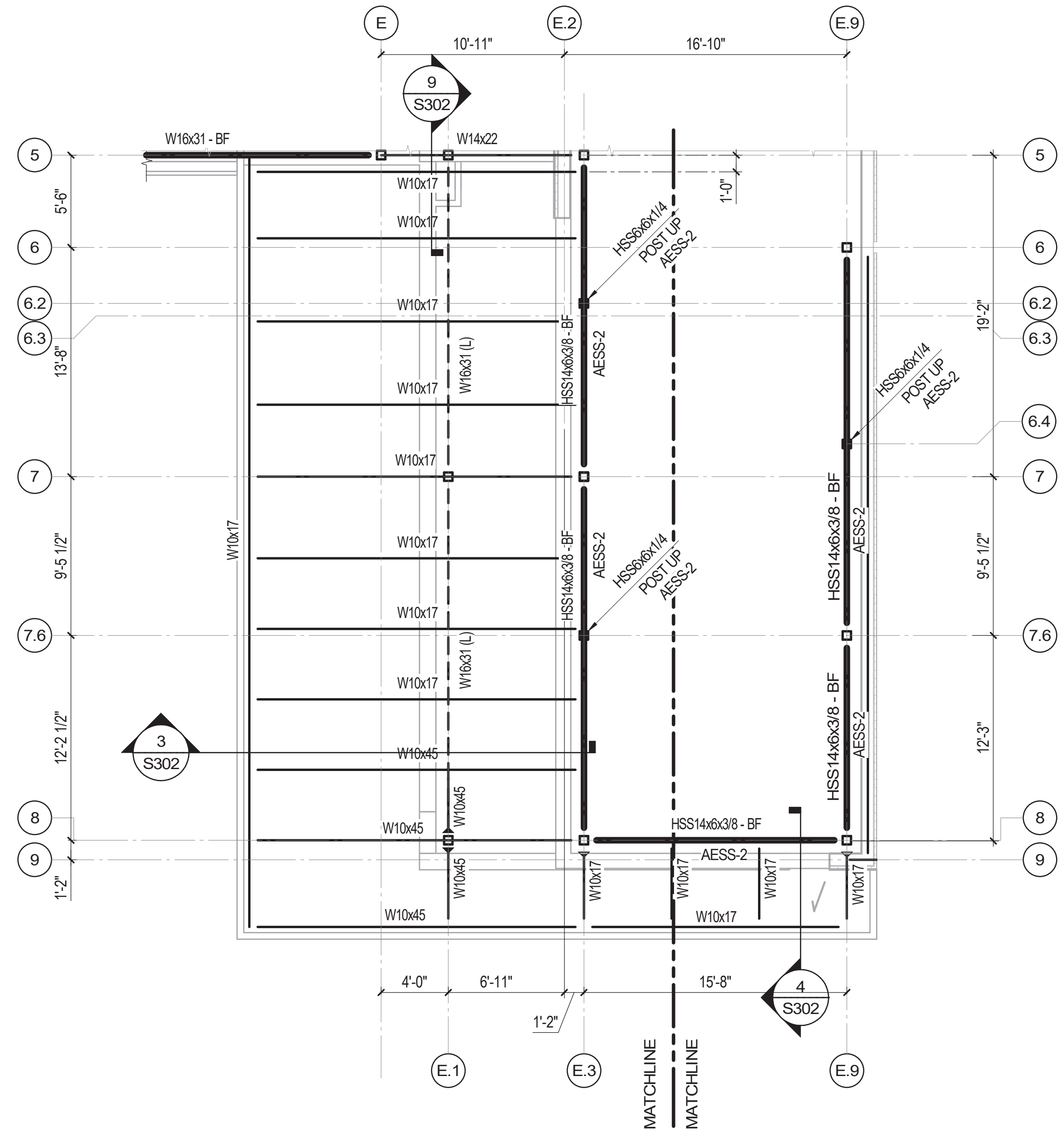
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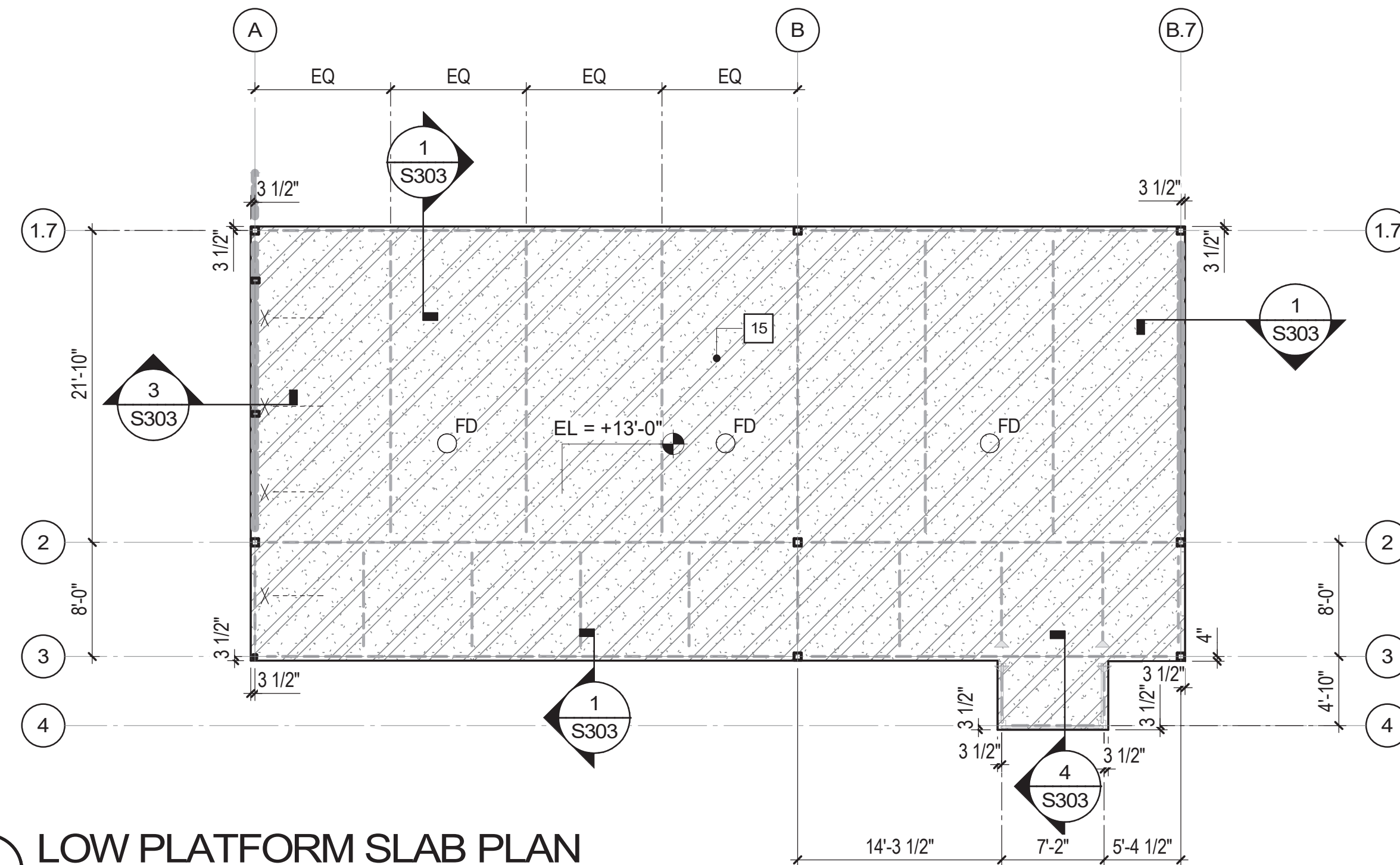
3 ENLARGED PLAN
3/4" = 1'-0"



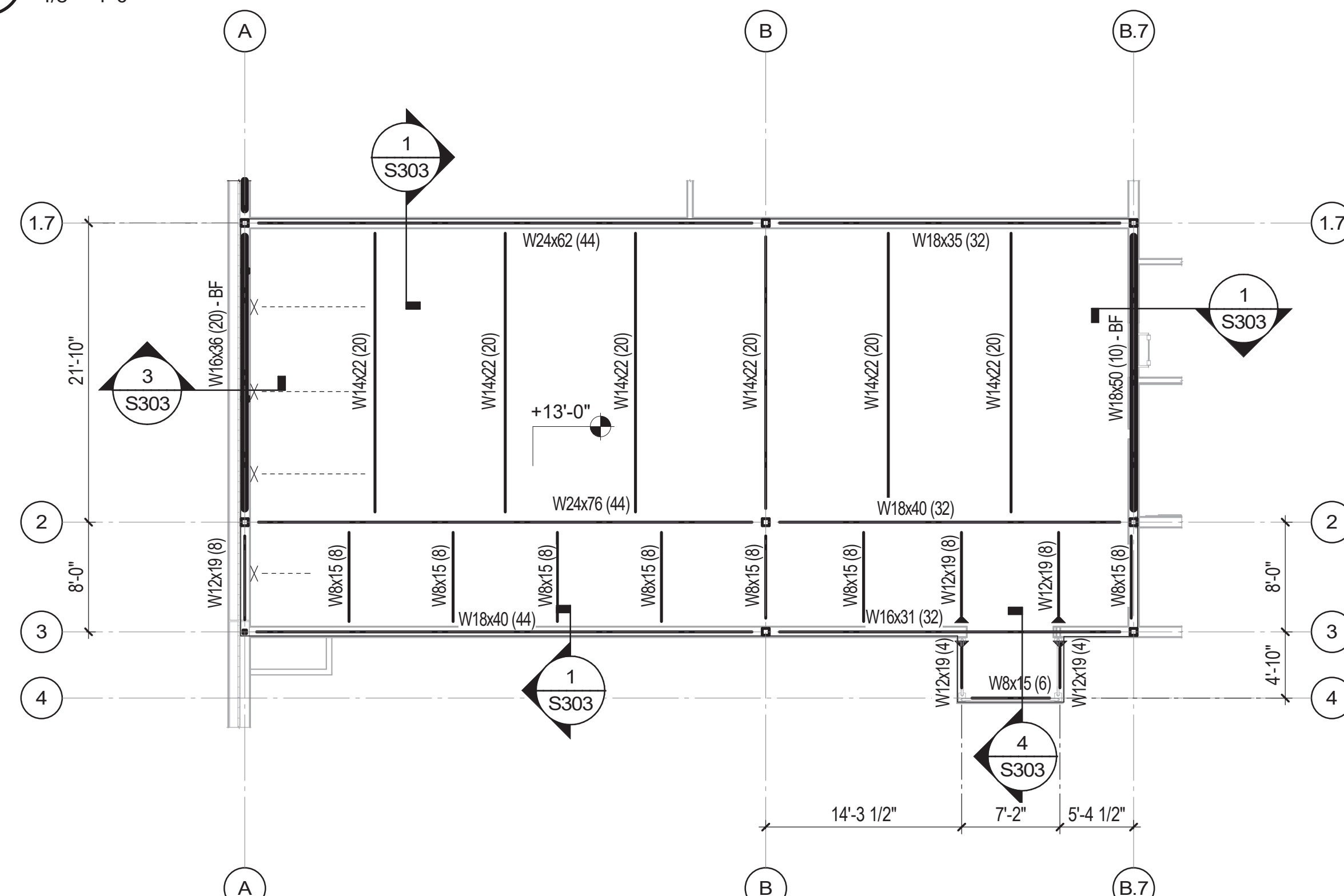
4 LOW ROOF CRICKET PLAN
3/16" = 1'-0"



1 WEST LOW ROOF FRAMING PLAN
3/16" = 1'-0"



5 LOW PLATFORM SLAB PLAN
1/8" = 1'-0"



2 LOW PLATFORM FRAMING PLAN
1/8" = 1'-0"

FRAMING PLAN NOTES

- A. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- B. COMPOSITE BEAMS SHALL BE EQUALLY SPACED NOT TO EXCEED 8'-0" OC.
- C. 3 1/2" LIGHTWEIGHT CONCRETE SLAB ON 2" COMPOSITE FLOOR DECK (5 1/2" TOTAL) REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING LOCATED 1" CLEAR BELOW TOP OF SLAB.
- D. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.
- E. PROVIDE BOTTOM CHORD EXTENSIONS AT ALL JOISTS ON COLUMN CENTERLINES.
- F. ROOF FRAMING SHALL BE EQUALLY SPACED NOT TO EXCEED 5'-6" OC TO SUPPORT STEEL ROOF DECK.
- G. BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS SHALL BE STRAIGHT LINES BETWEEN GIVEN ELEVATIONS. INTERPOLATE AS REQUIRED FOR INTERMEDIATE BEARING ELEVATIONS, UNLESS OTHERWISE NOTED.
- H. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.

KEY NOTES

- 02 PREFABRICATED CFMF OVERBUILD TRUSSES TO FORM CRICKET. REFERENCE THE TYPICAL DETAIL. CRICKET BUILT UP WITH TAPERED INSULATION. REFERENCE THE ARCHITECTURAL DRAWINGS FOR MAXIMUM HEIGHT OF TAPERED INSULATION.
- 07 3 1/4" LIGHT WEIGHT CONCRETE OVER 2" COMPOSITE STEEL DECK (5 1/4" TOTAL THICKNESS). REINFORCE WITH 6x6 W2.1x42.1 WWR LOCATED 1" BELOW TOP OF SLAB.



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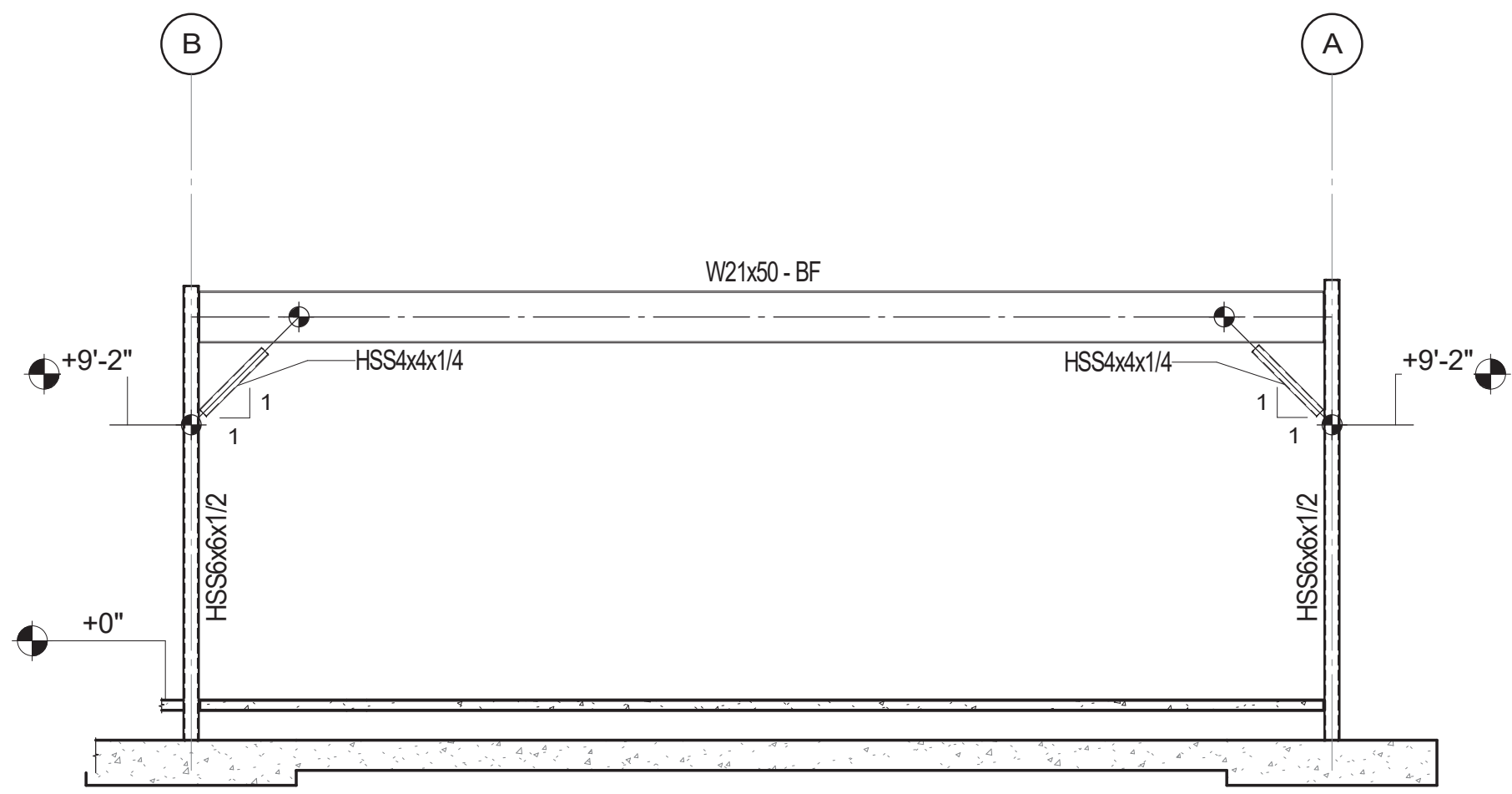


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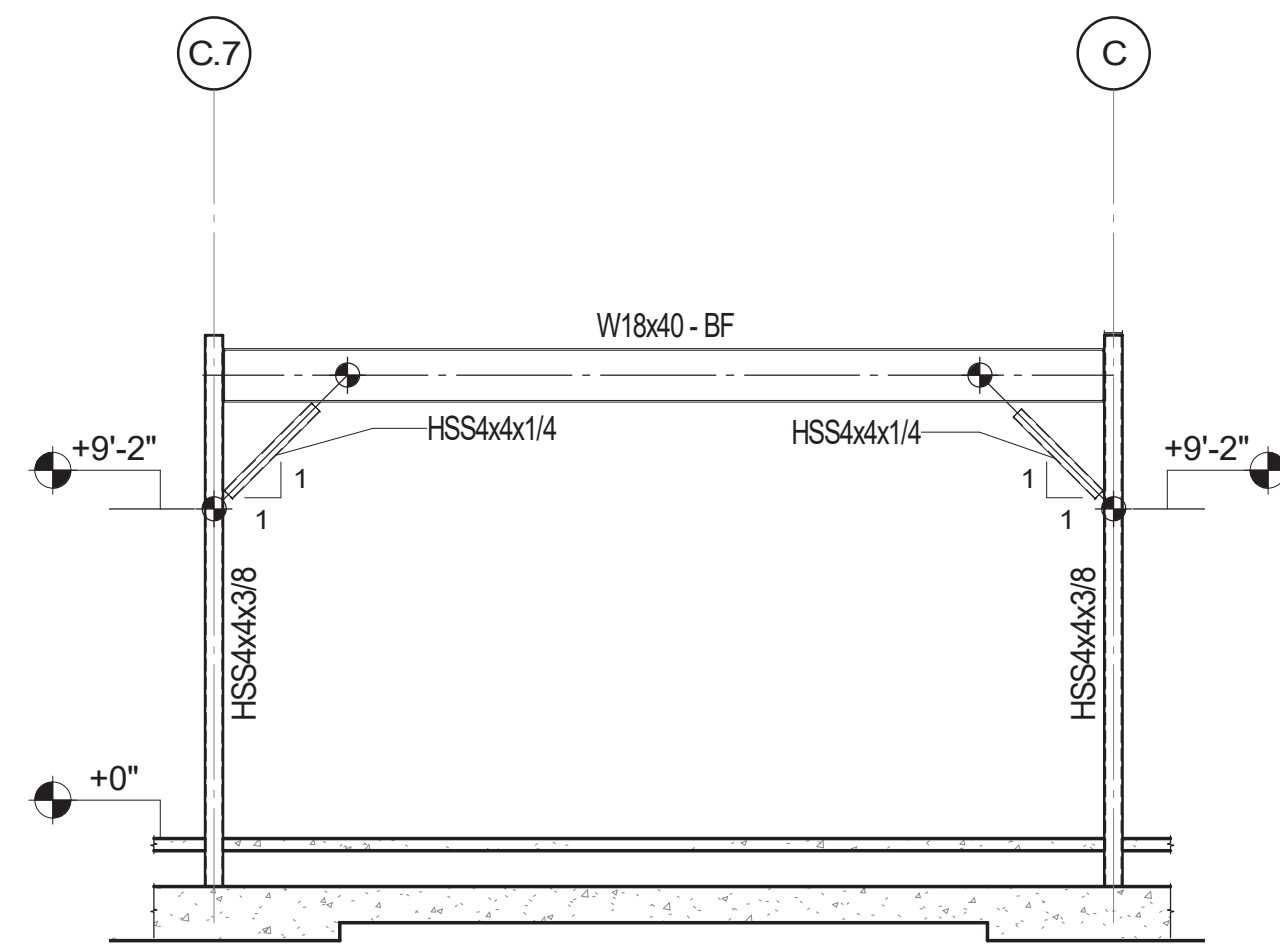
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SHEET
ENLARGED FRAMING PLAN

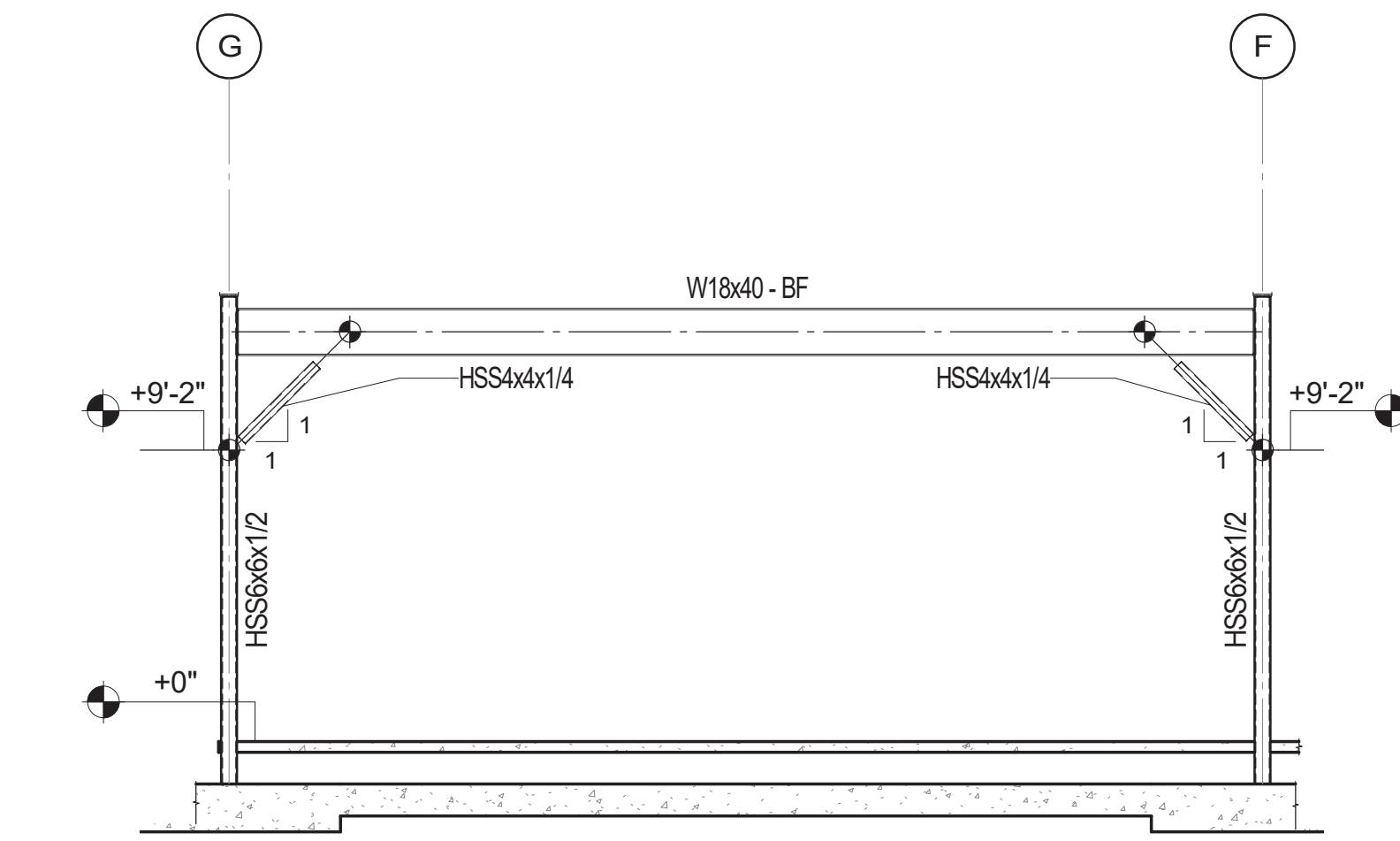
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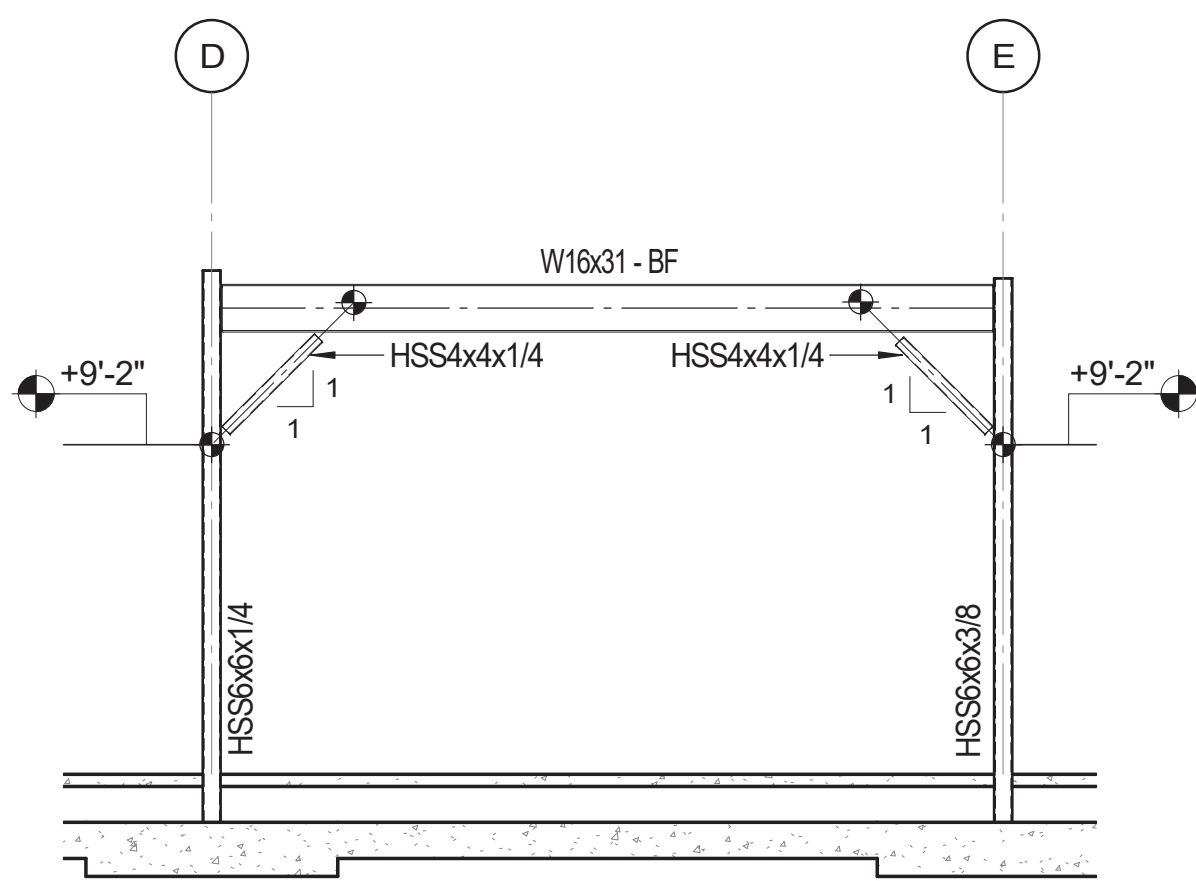
7 BRACE FRAME ELEVATION AT GRID 1
3/16" = 1'-0"



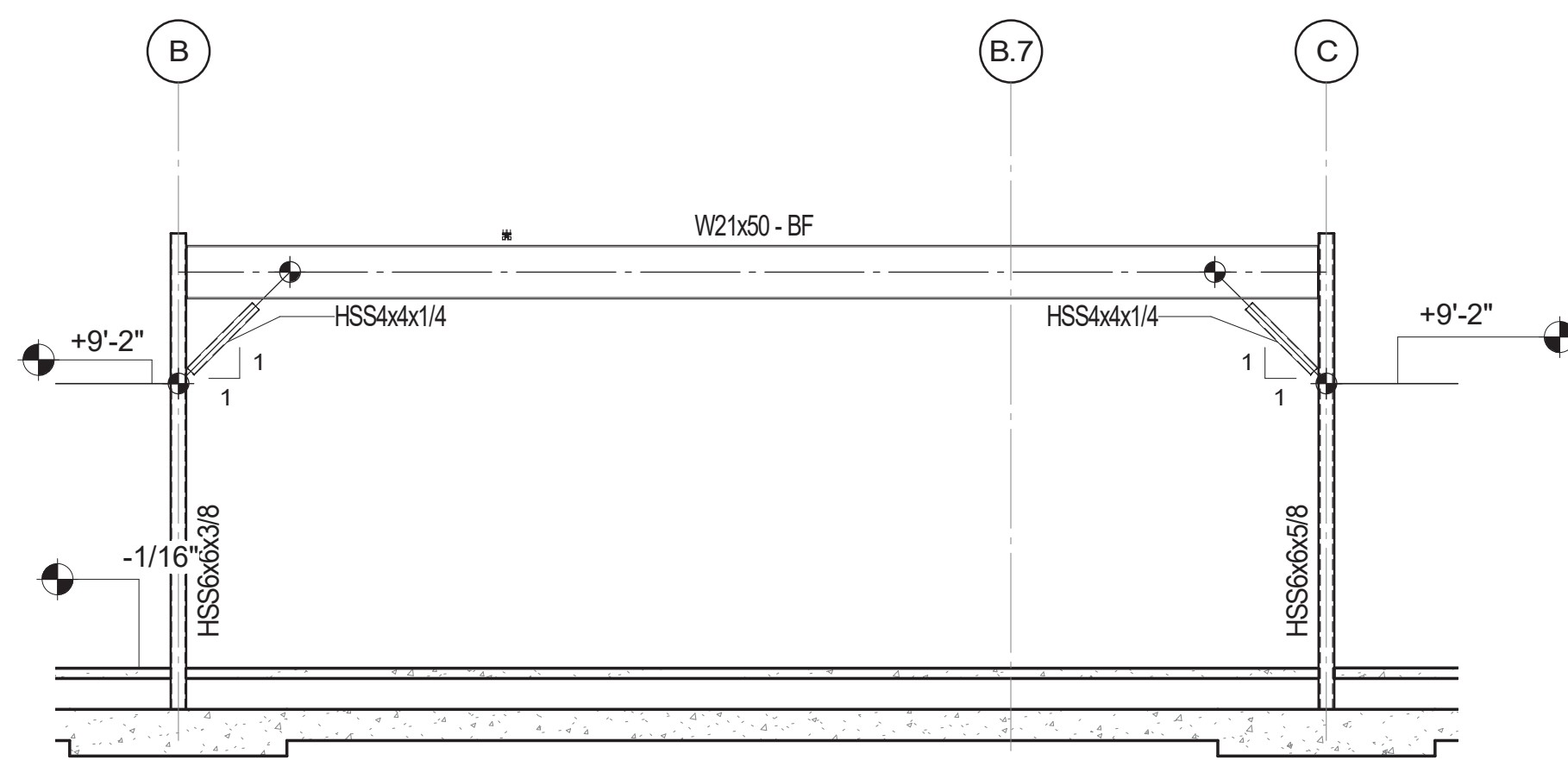
8 BRACE FRAME ELEVATION AT GRID 1
3/16" = 1'-0"



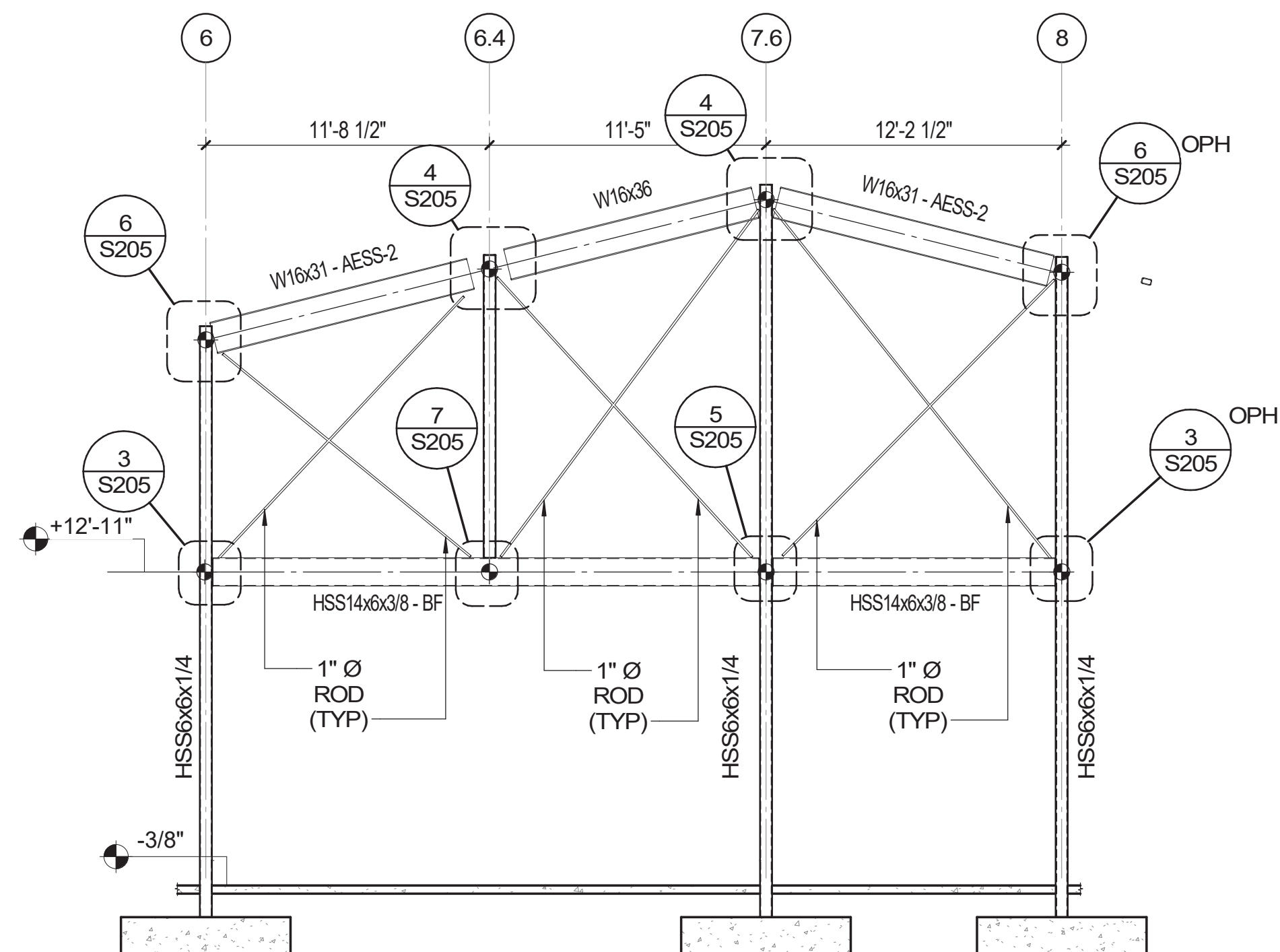
9 BRACE FRAME ELEVATION AT GRID 1
3/16" = 1'-0"



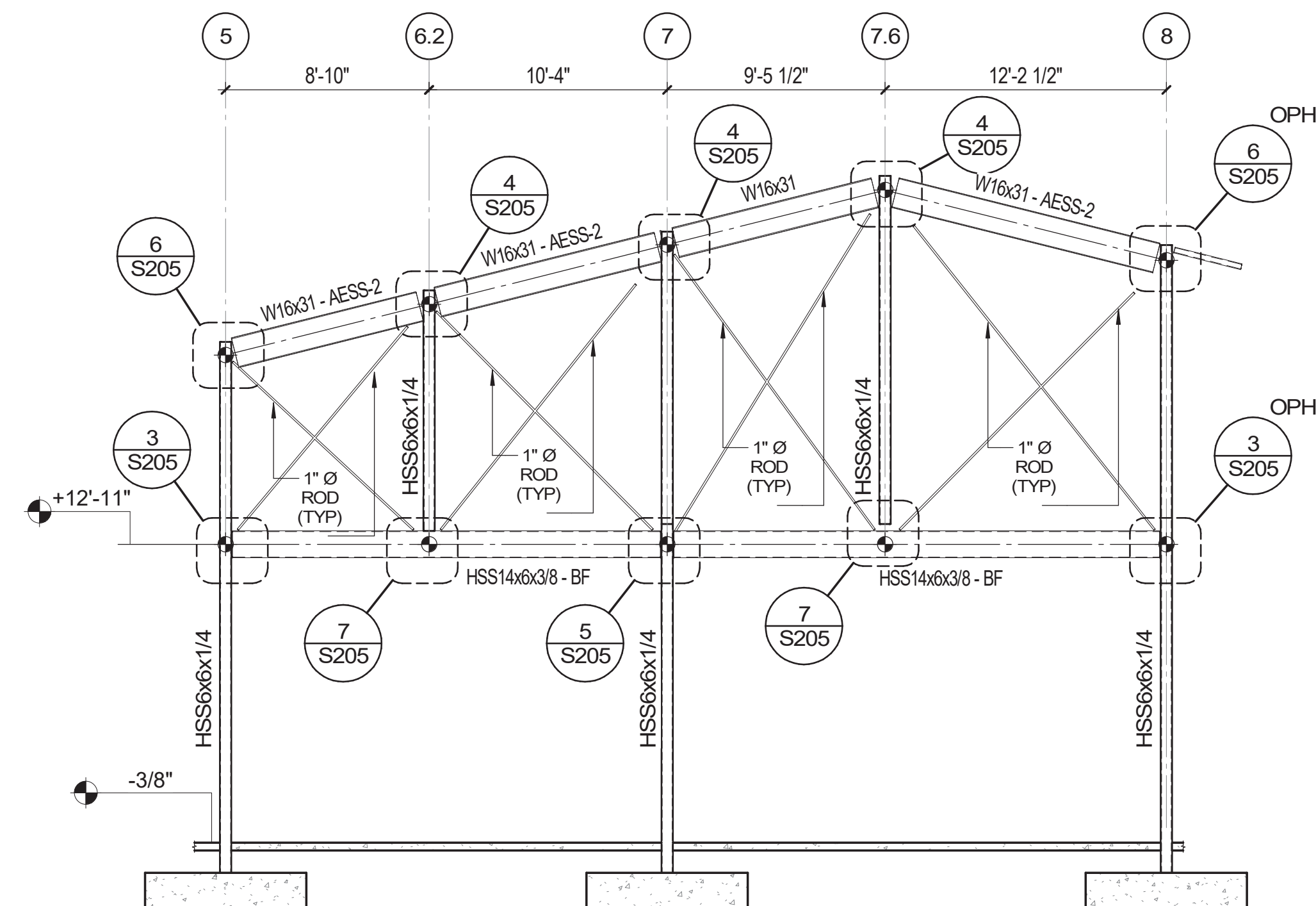
5 BRACE FRAME ELEVATION AT GRID 5
3/16" = 1'-0"



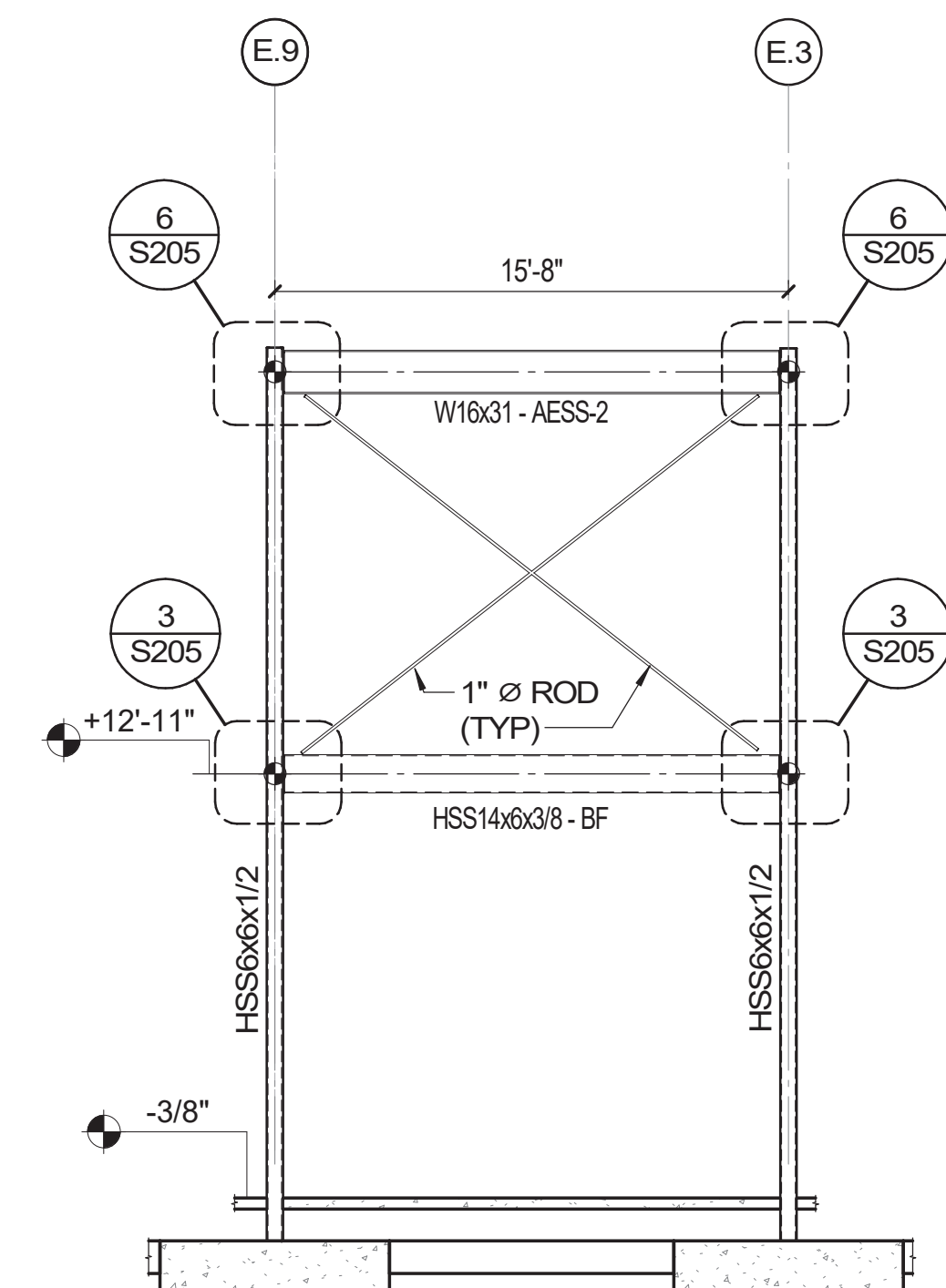
6 BRACE FRAM ELEVATION AT GRID 5
3/16" = 1'-0"



1 BRACE FRAME ELEVATION AT GRID E.9
3/16" = 1'-0"



2 BRACE FRAME ELEVATION AT GRID E.3
3/16" = 1'-0"



3 BRACE FRAME ELEVATION AT GRID 8
3/16" = 1'-0"



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SHEET
BRACED FRAME ELEVATIONS

S201

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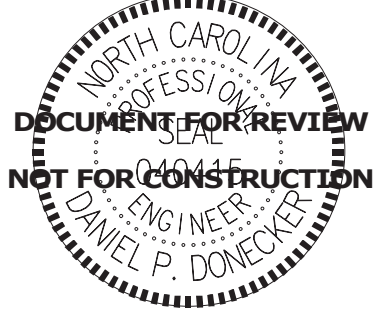


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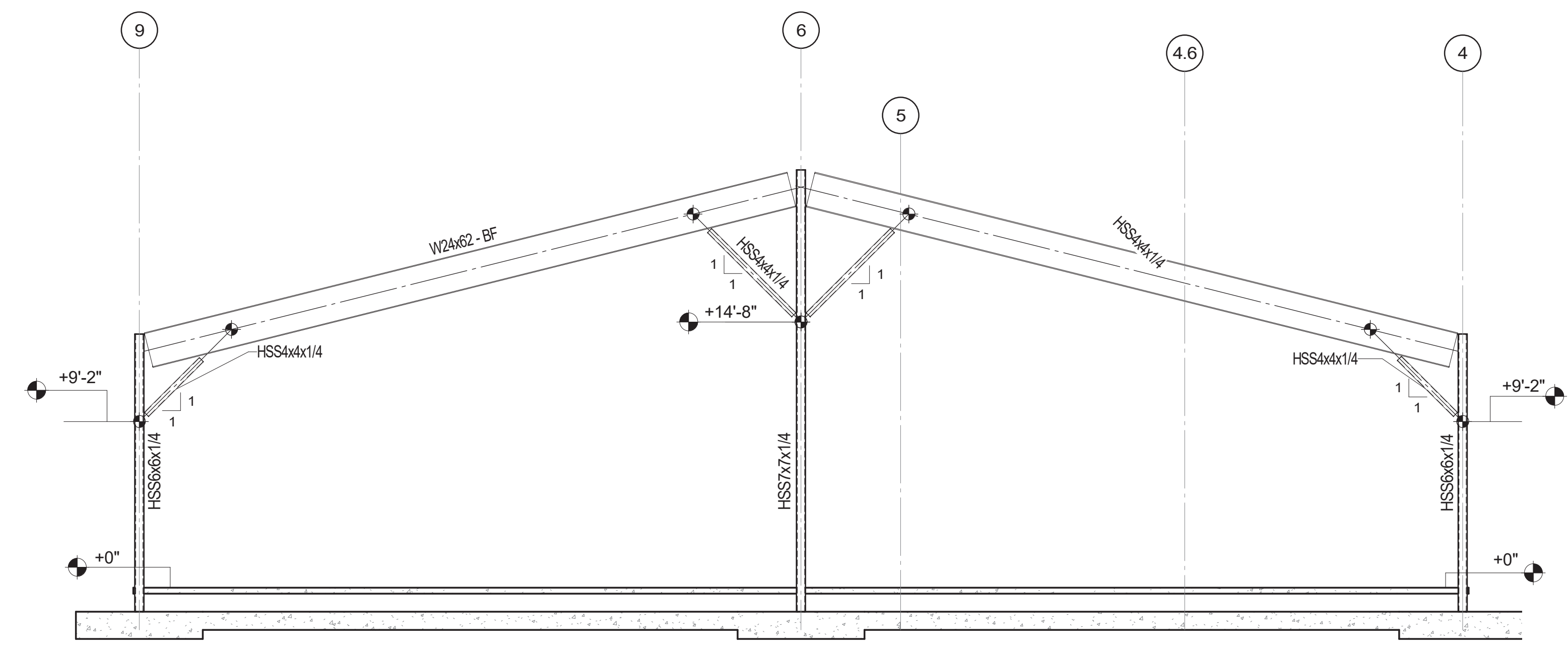


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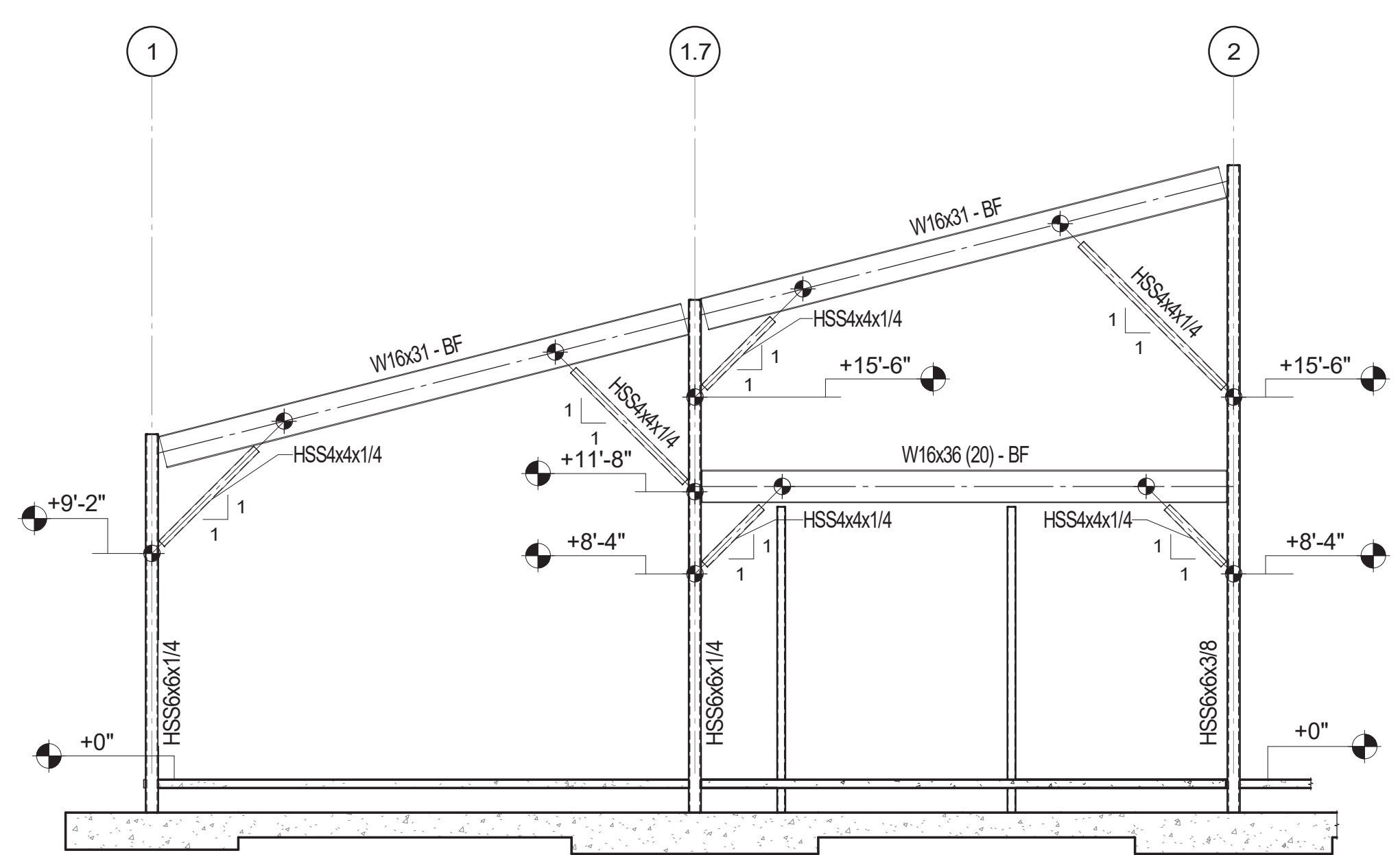
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SHEET
BRACED FRAME ELEVATIONS

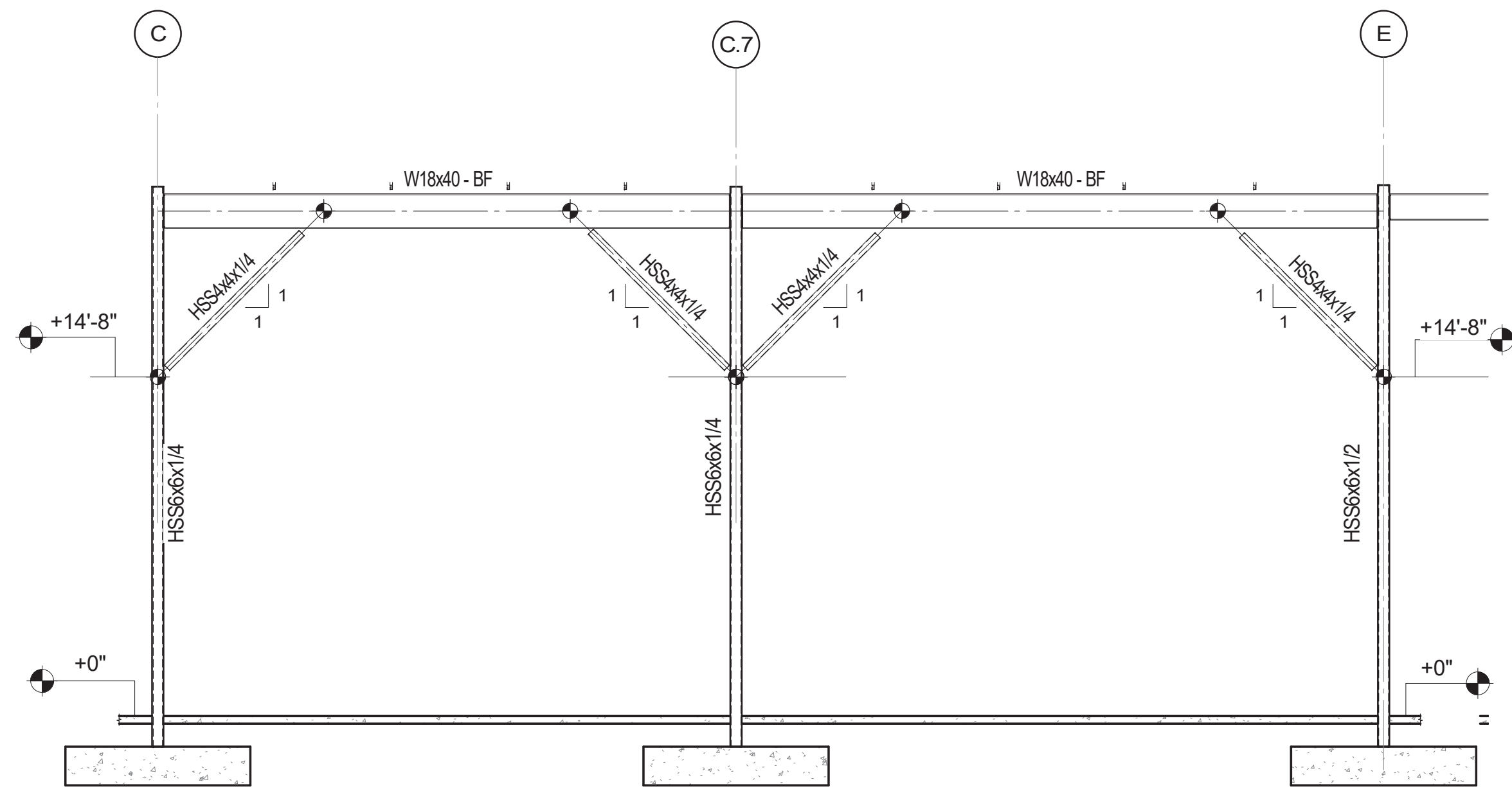
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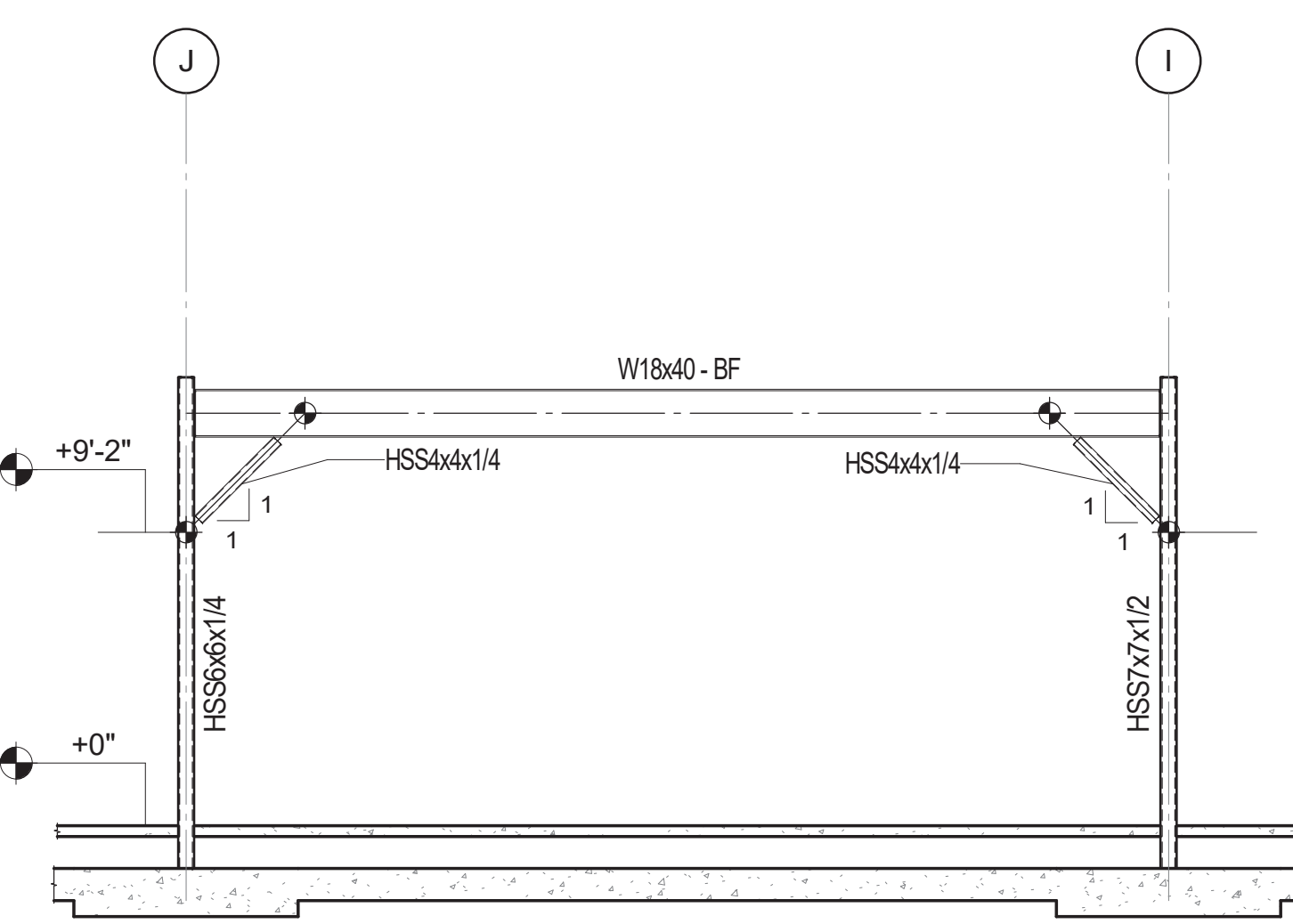
6 BRACE FRAME ELEVATION AT GRID K
3/16" = 1'-0"



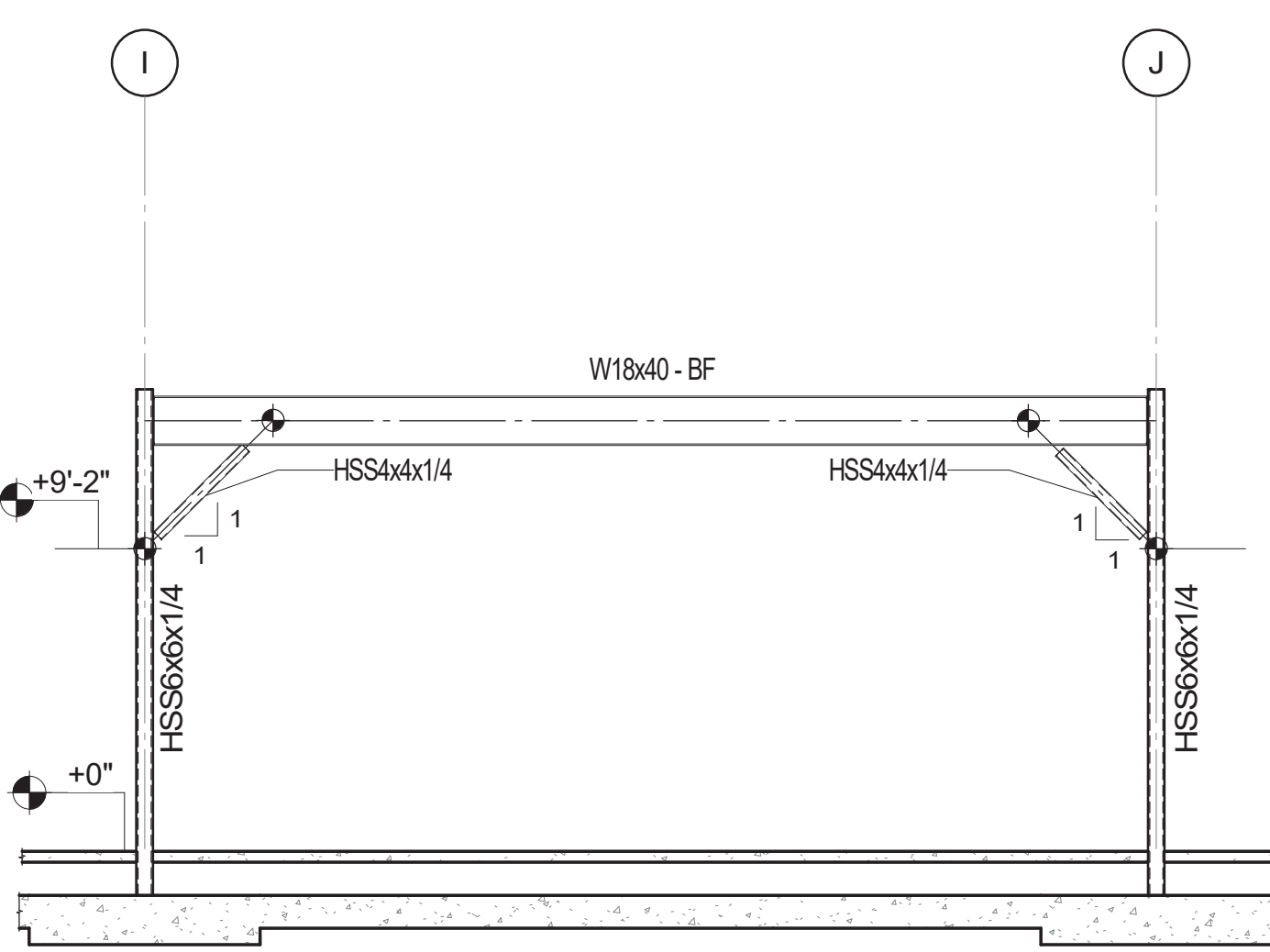
8 BRACE FRAME ELEVATION AT GRID A
3/16" = 1'-0"



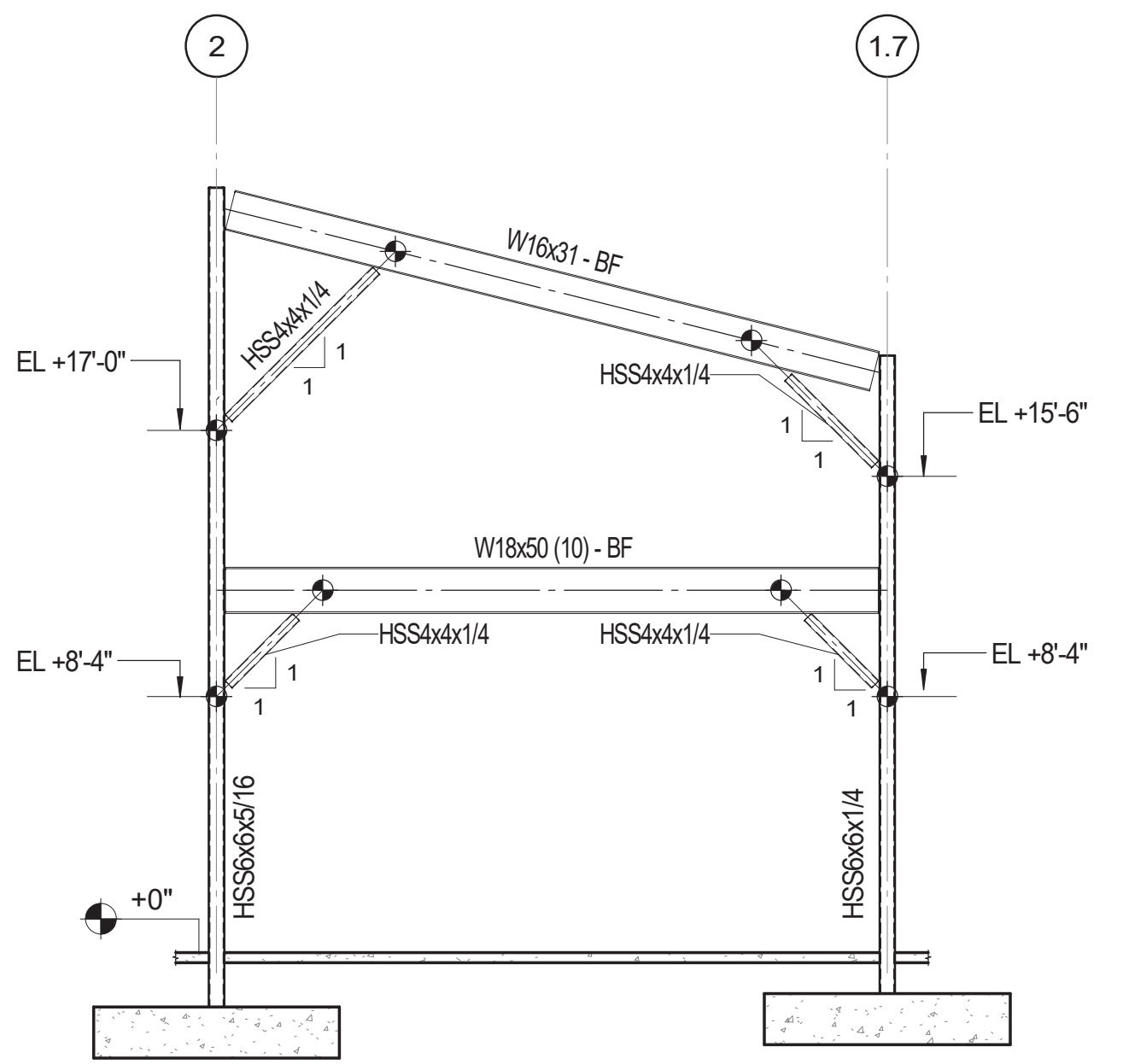
9 BRACE FRAME ELEVATION AT GRID 3
3/16" = 1'-0"



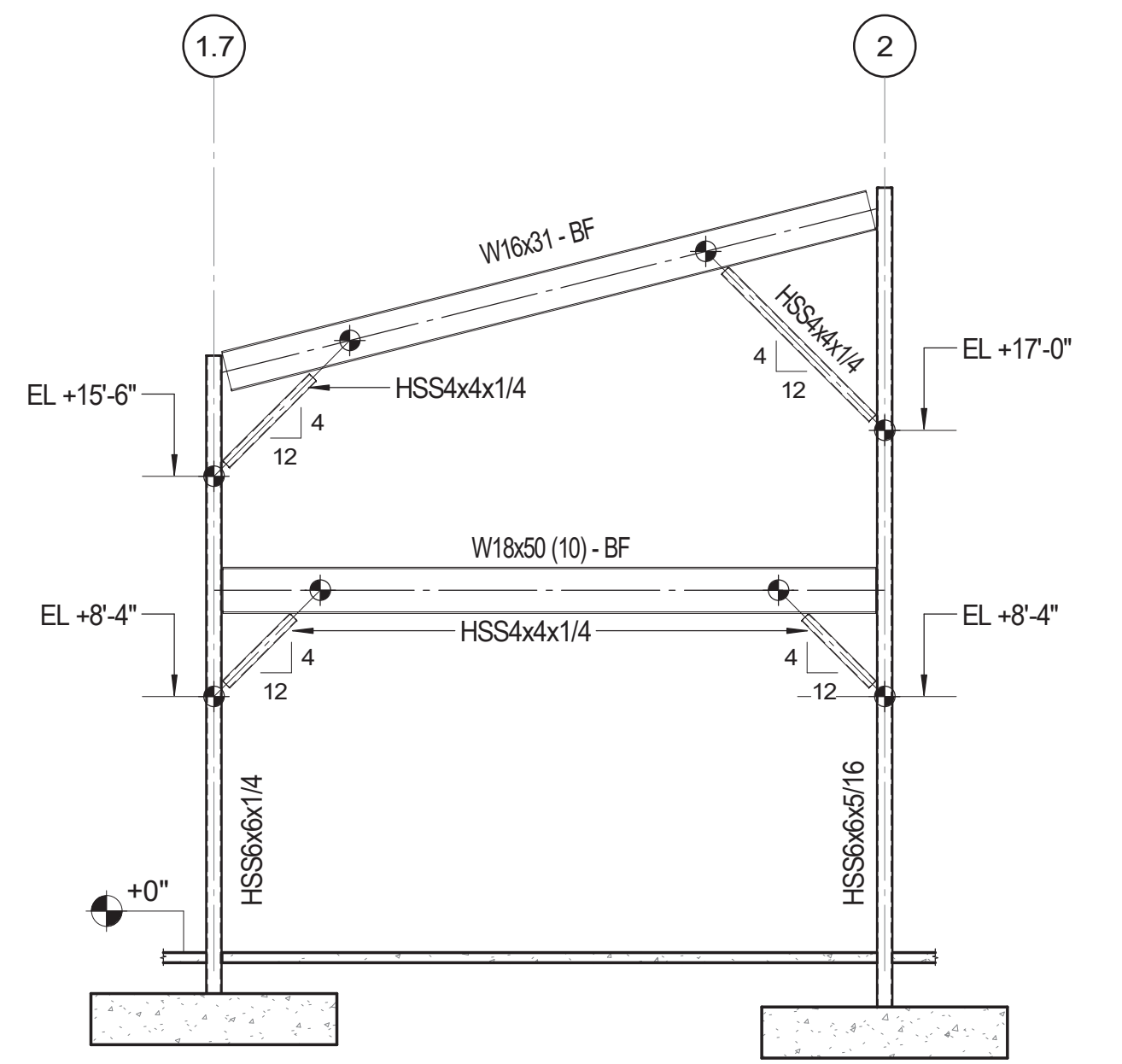
1 BRACE FRAME ELEVATION AT GRID 4
3/16" = 1'-0"



2 BRACE FRAME ELEVATION AT GRID 9
3/16" = 1'-0"



3 BRACE FRAME ELEVATION AT GRID B7
3/16" = 1'-0"



4 BRACE FRAME ELEVATION AT GRID B7
3/16" = 1'-0"

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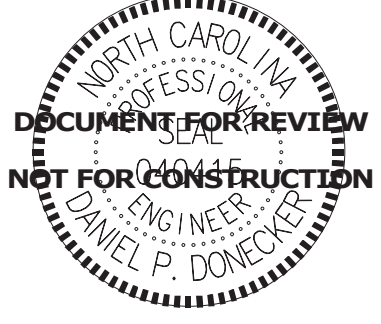


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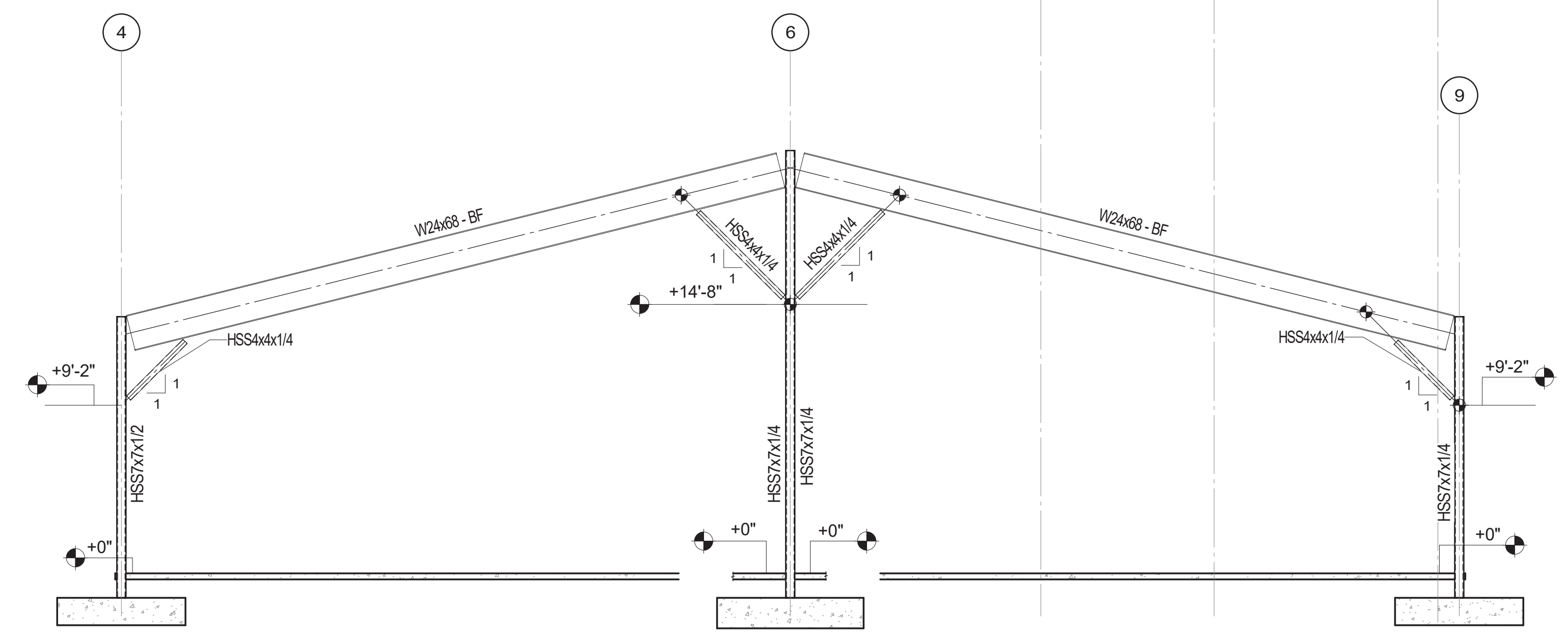
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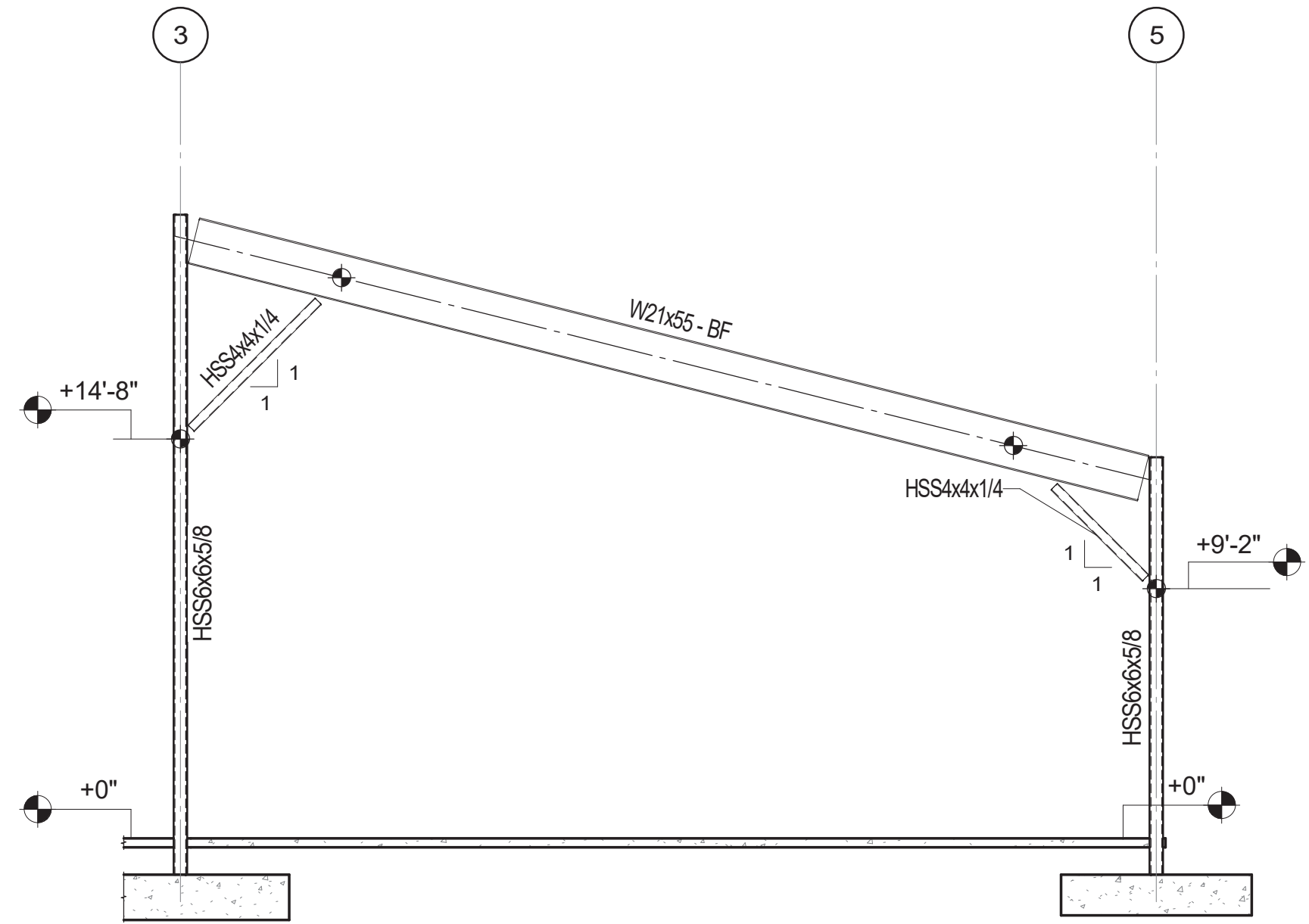
SHEET
BRACED FRAME ELEVATIONS

S203

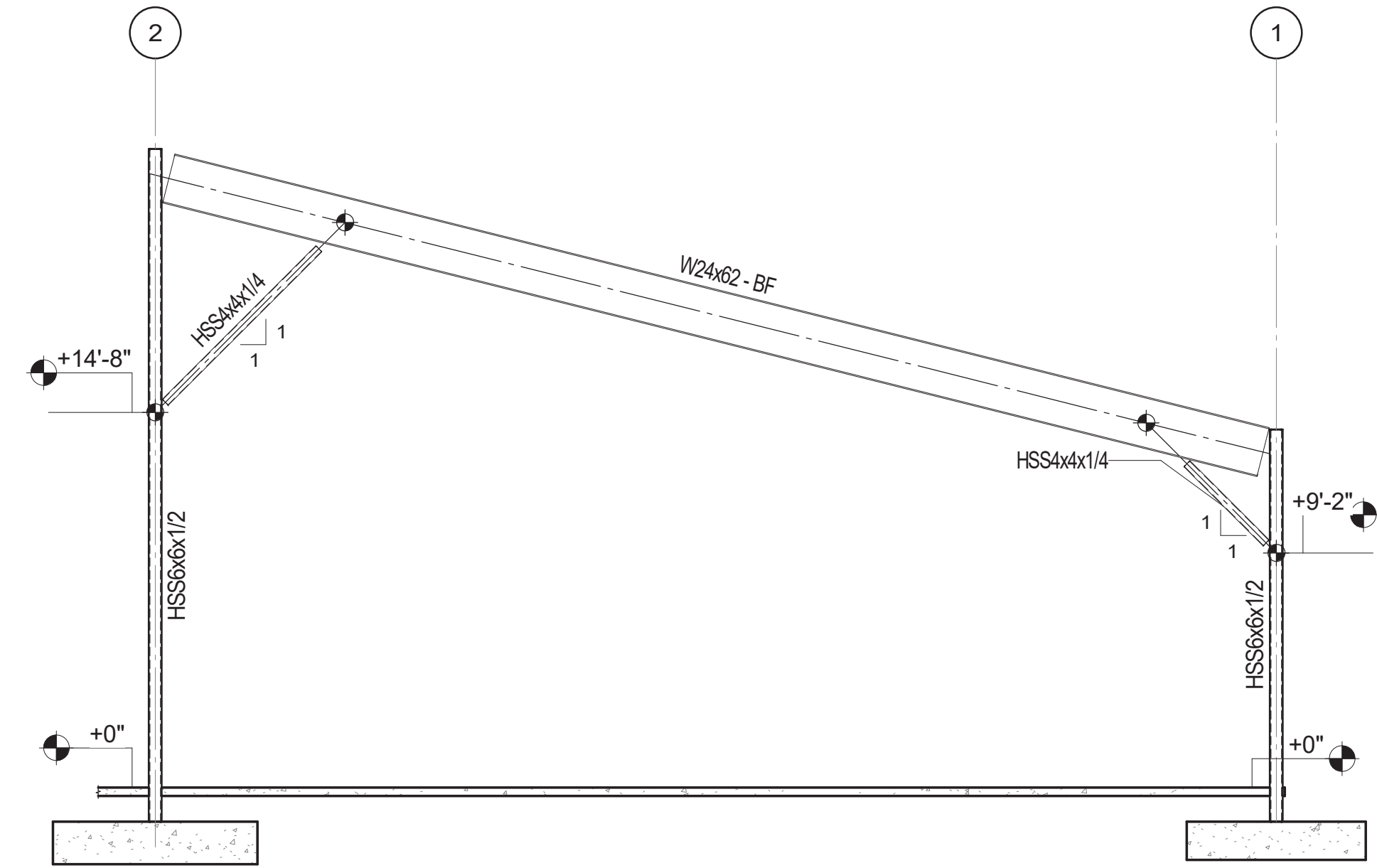
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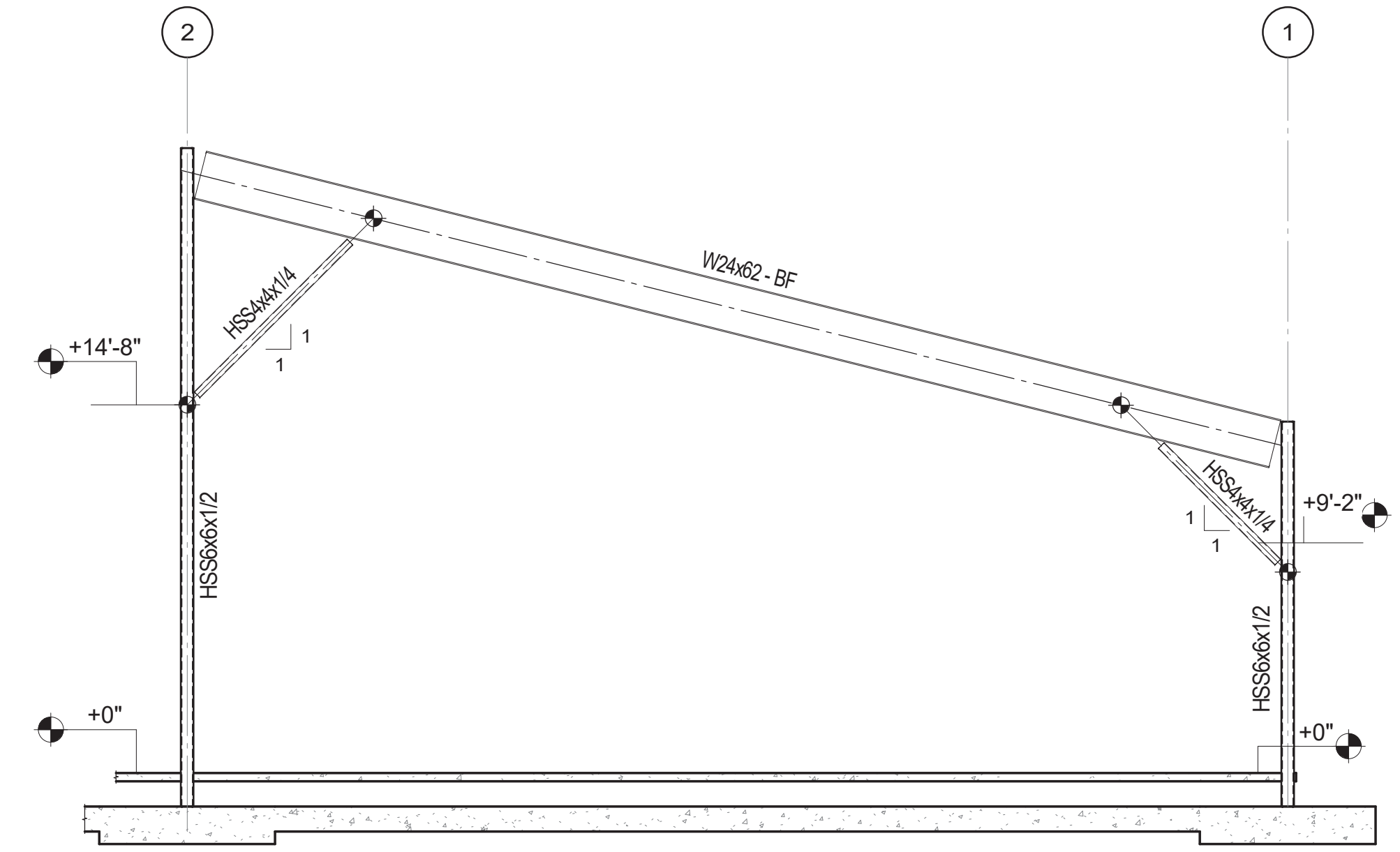
8 BRACE FRAME ELEVATION AT GRID I
3/16" = 1'-0"



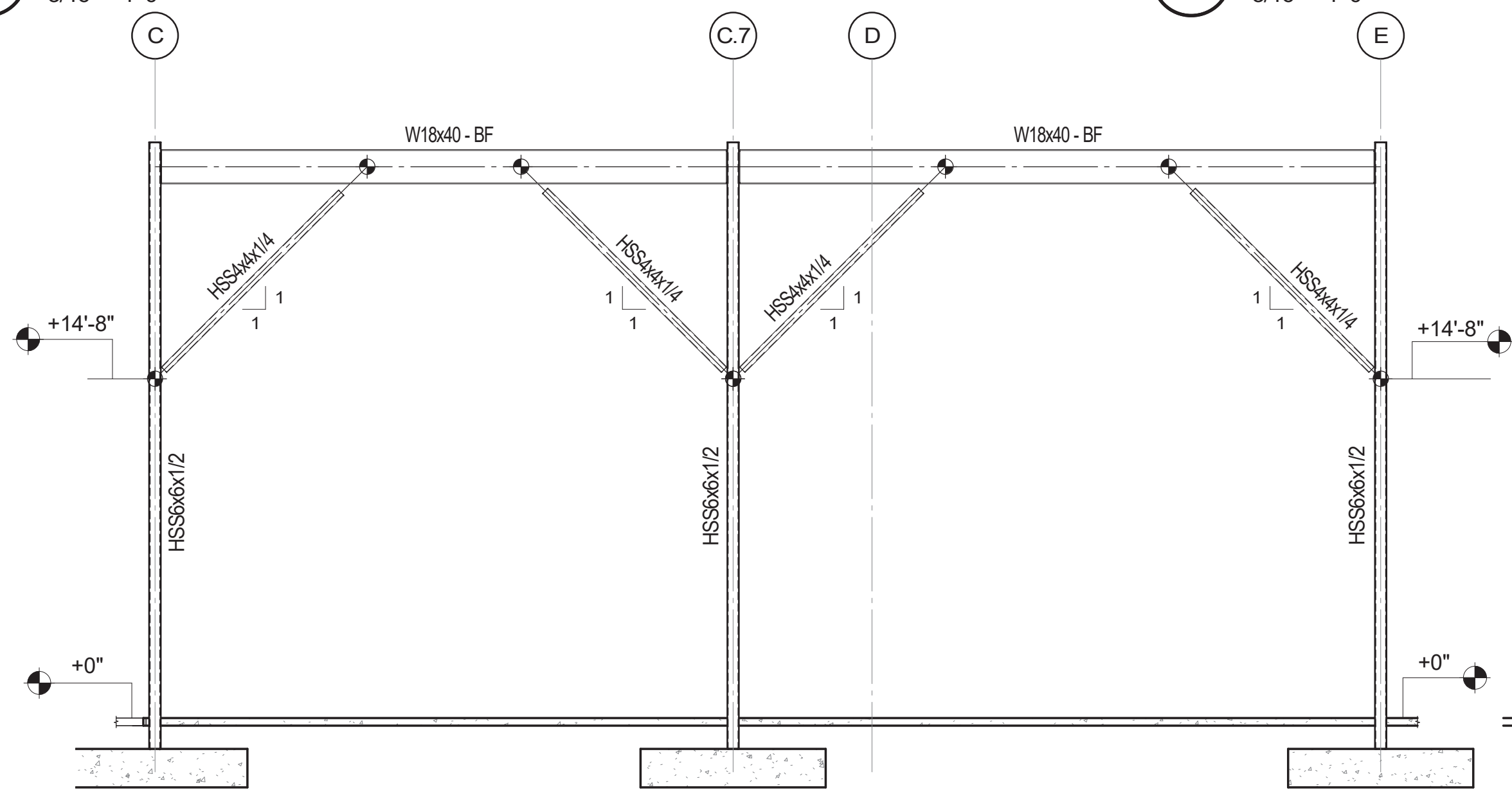
5 BRACE FRAME ELEVATION AT GRID C
3/16" = 1'-0"



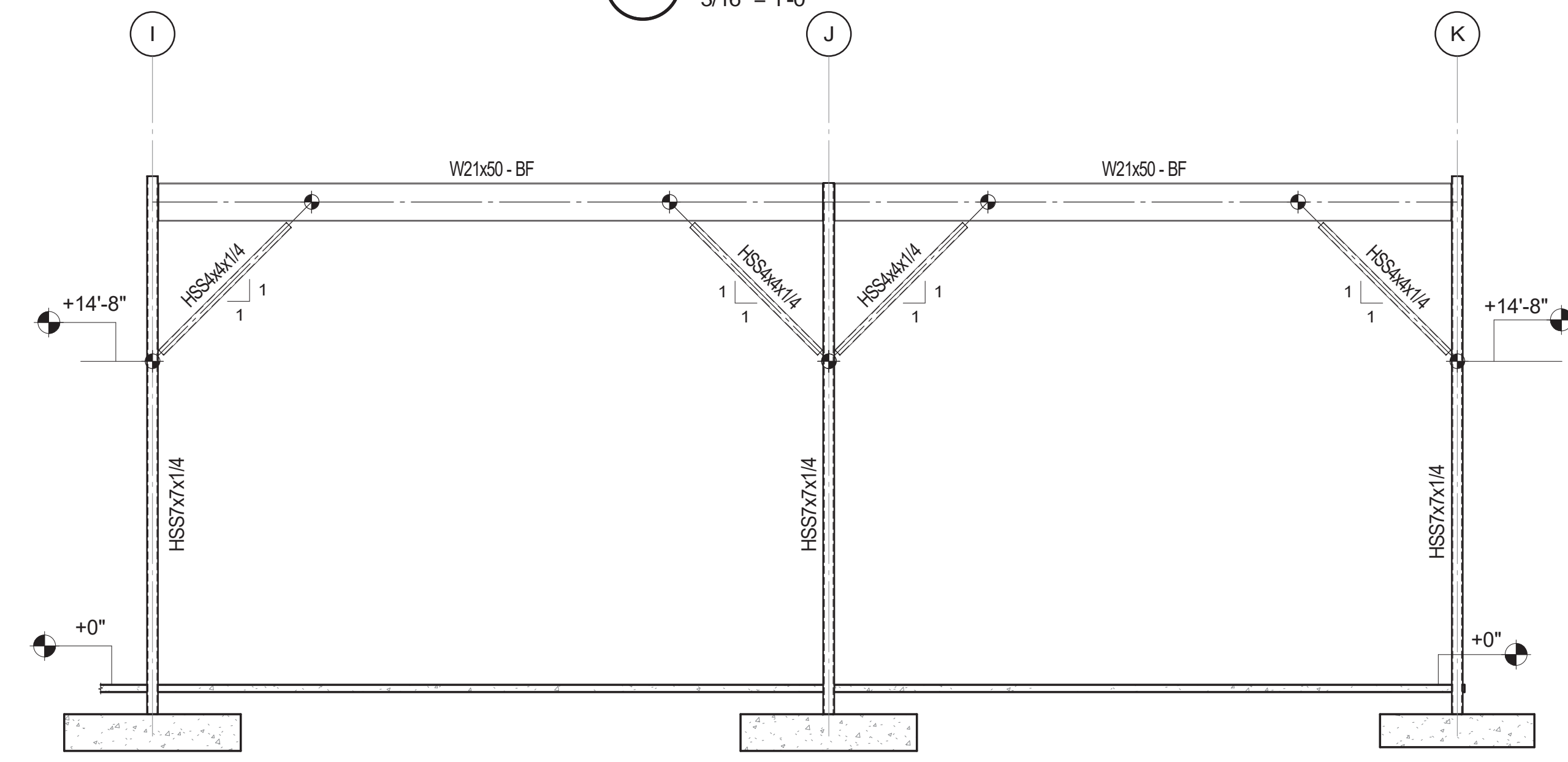
6 BRACE FRAME ELEVATION AT GRID F
3/16" = 1'-0"



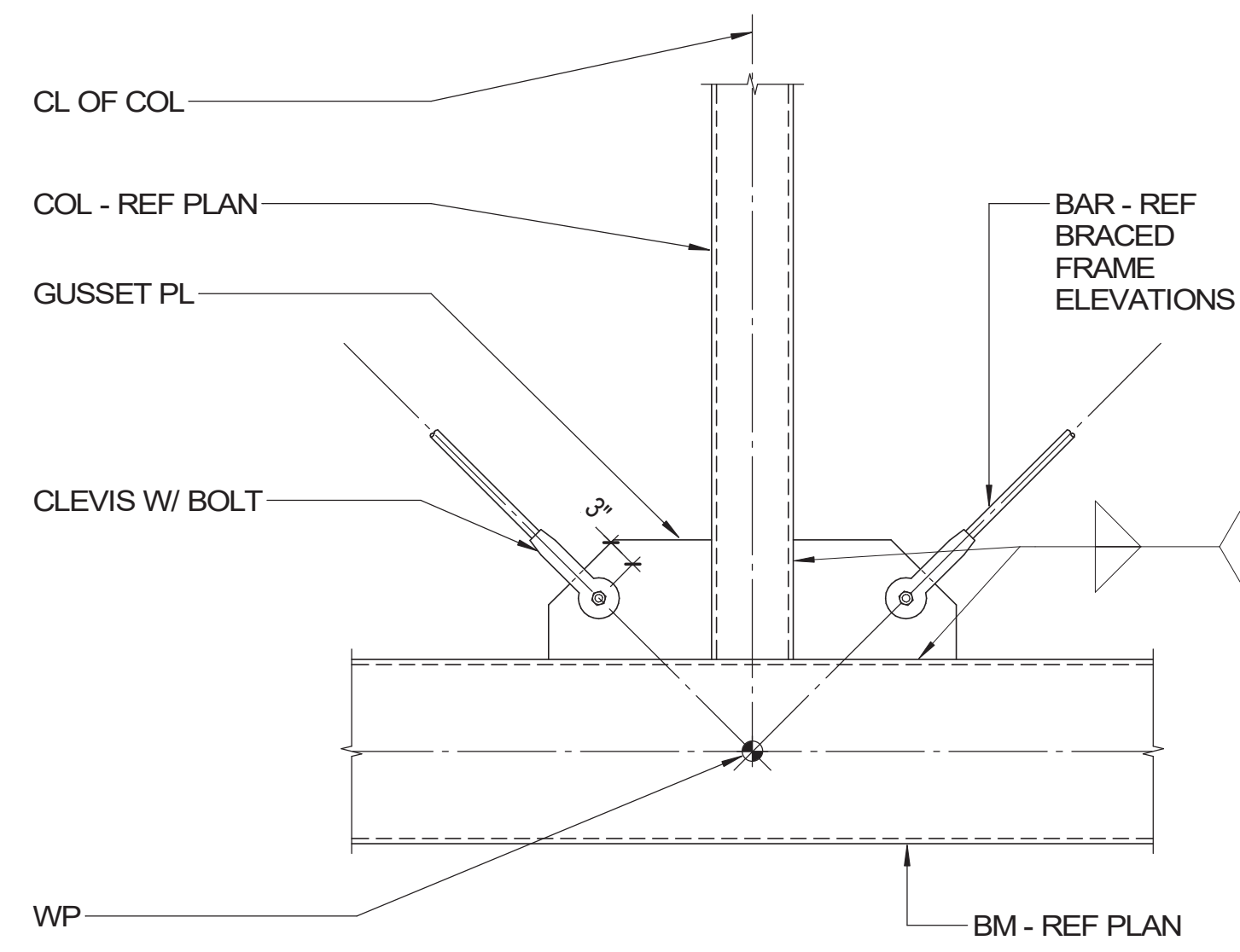
7 BRACE FRAME ELEVATION AT GRID G
3/16" = 1'-0"



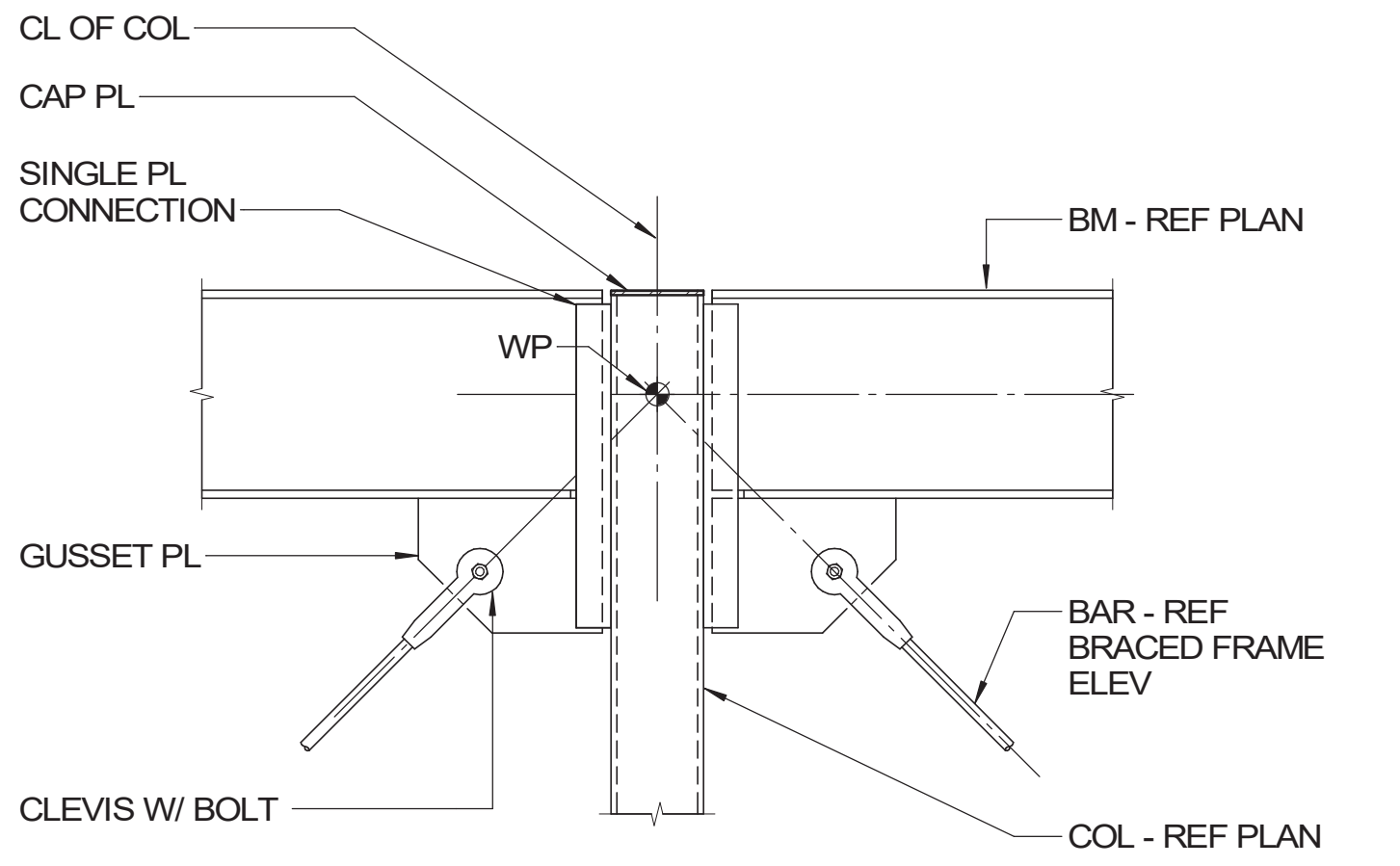
1 BRACE FRAME ELEVATION AT GRID 2
3/16" = 1'-0"



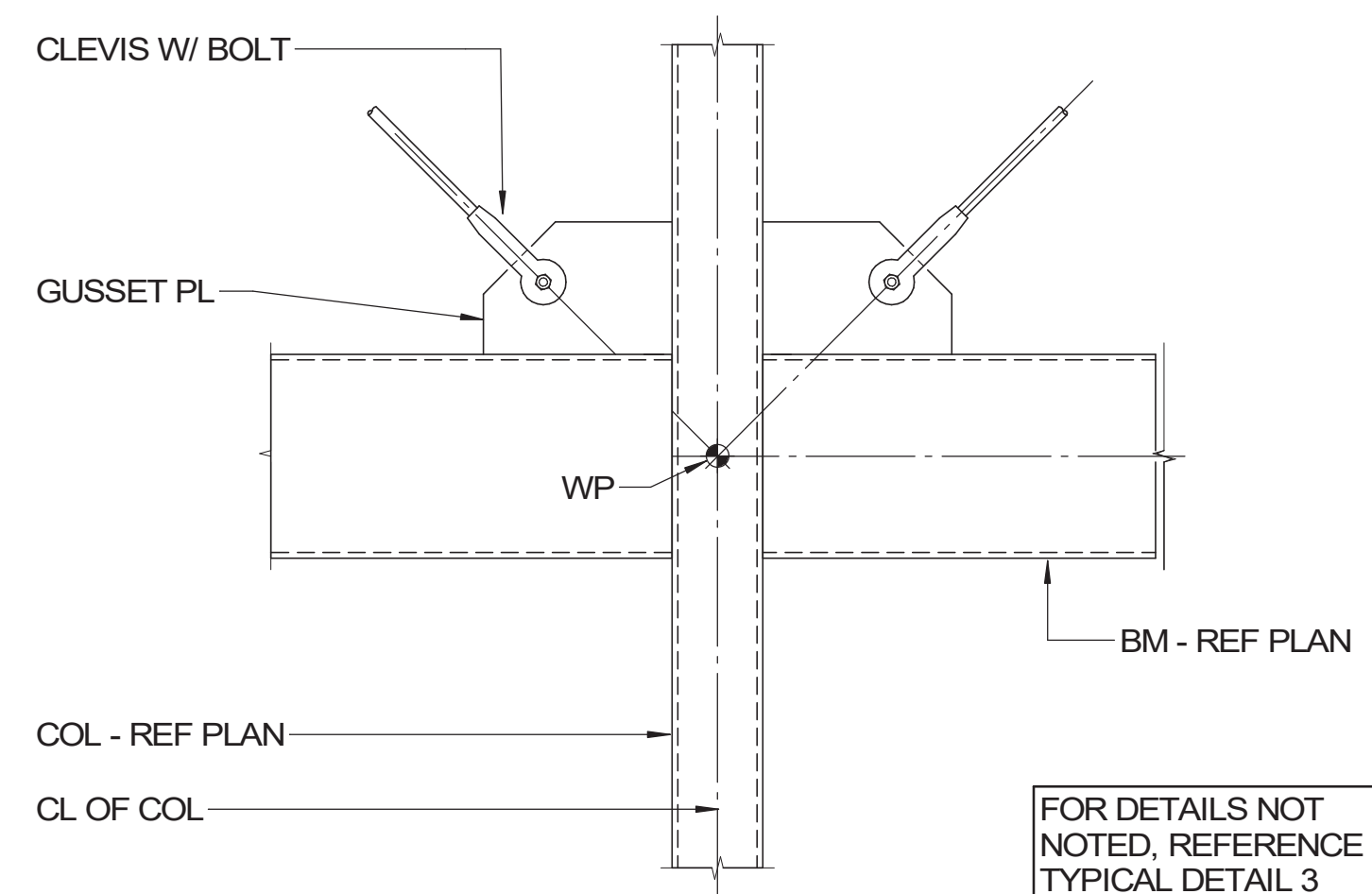
3 BRACE FRAME ELEVATION AT GRID 6
3/16" = 1'-0"



7 DETAIL
3/4" = 1'-0"

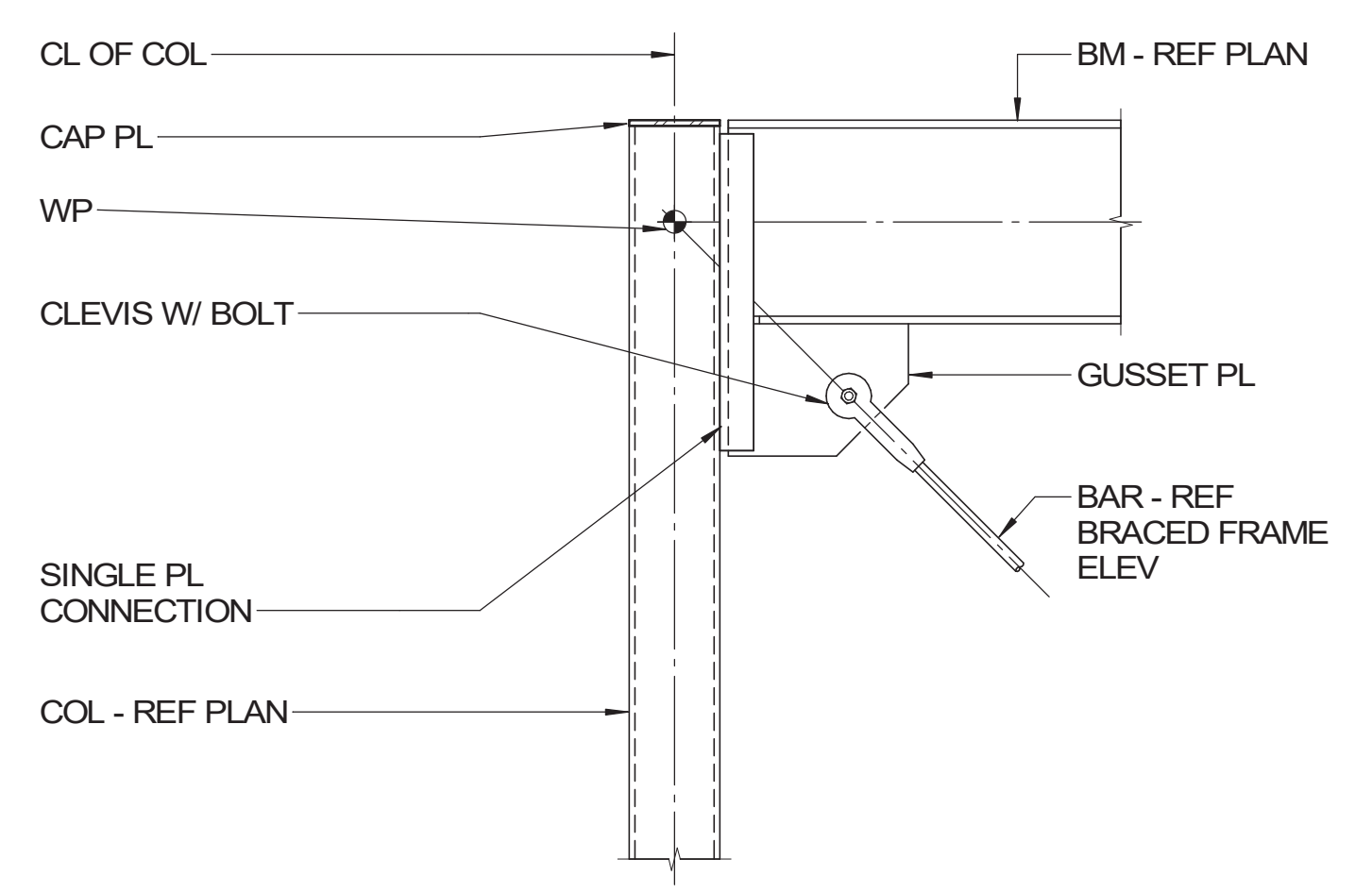


4 DETAIL
3/4" = 1'-0"

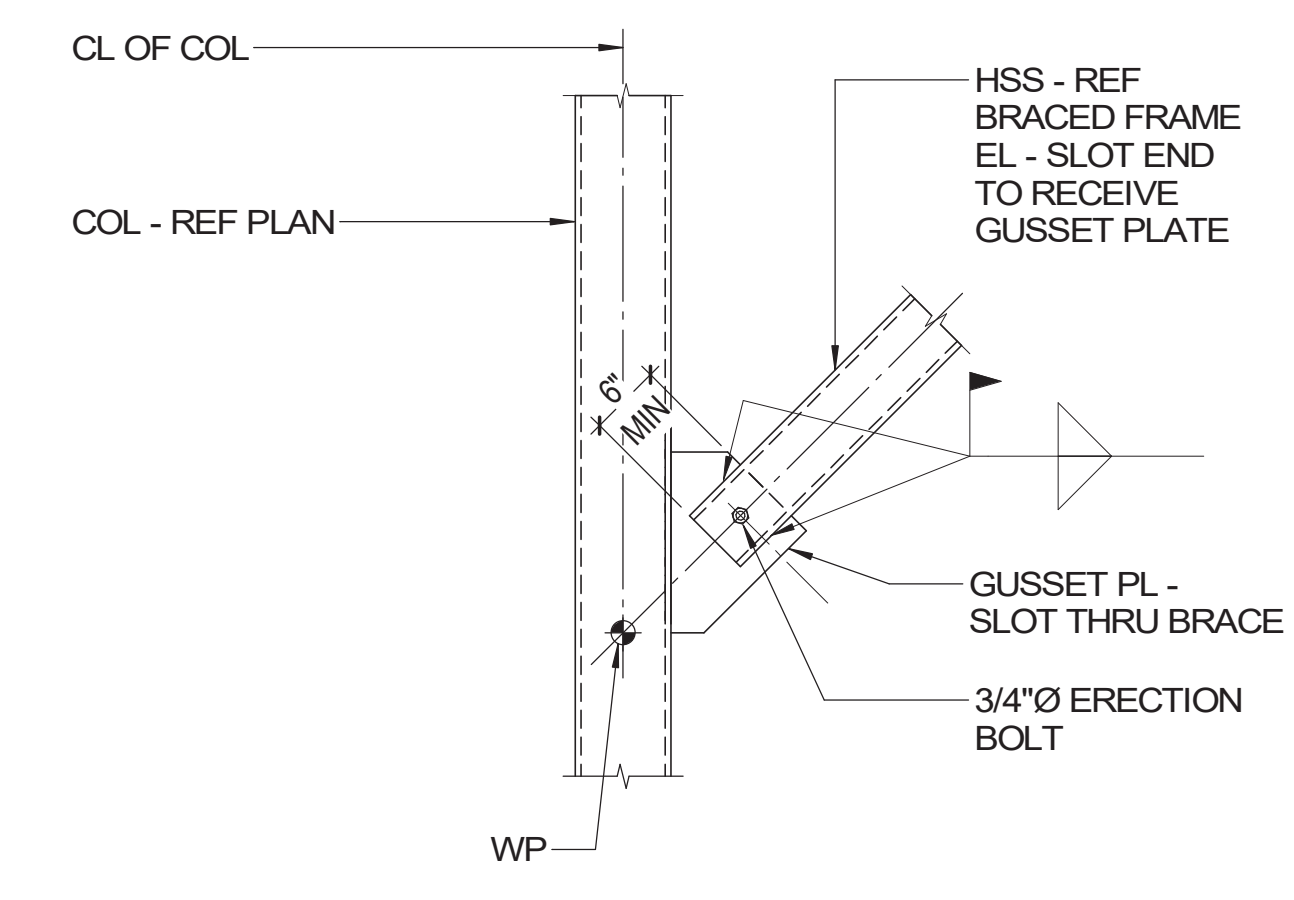


5 DETAIL
3/4" = 1'-0"

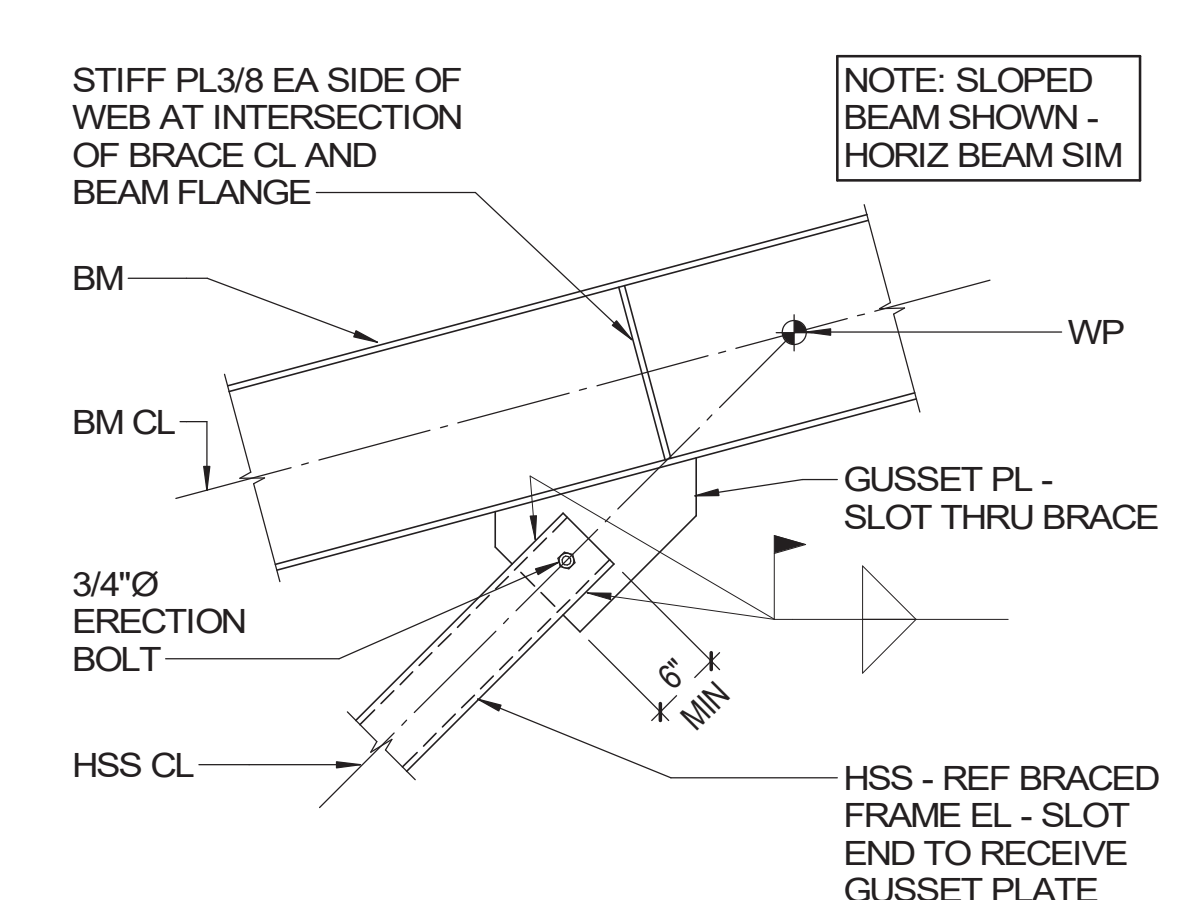
FOR DETAILS NOT NOTED, REFERENCE TYPICAL DETAIL 3



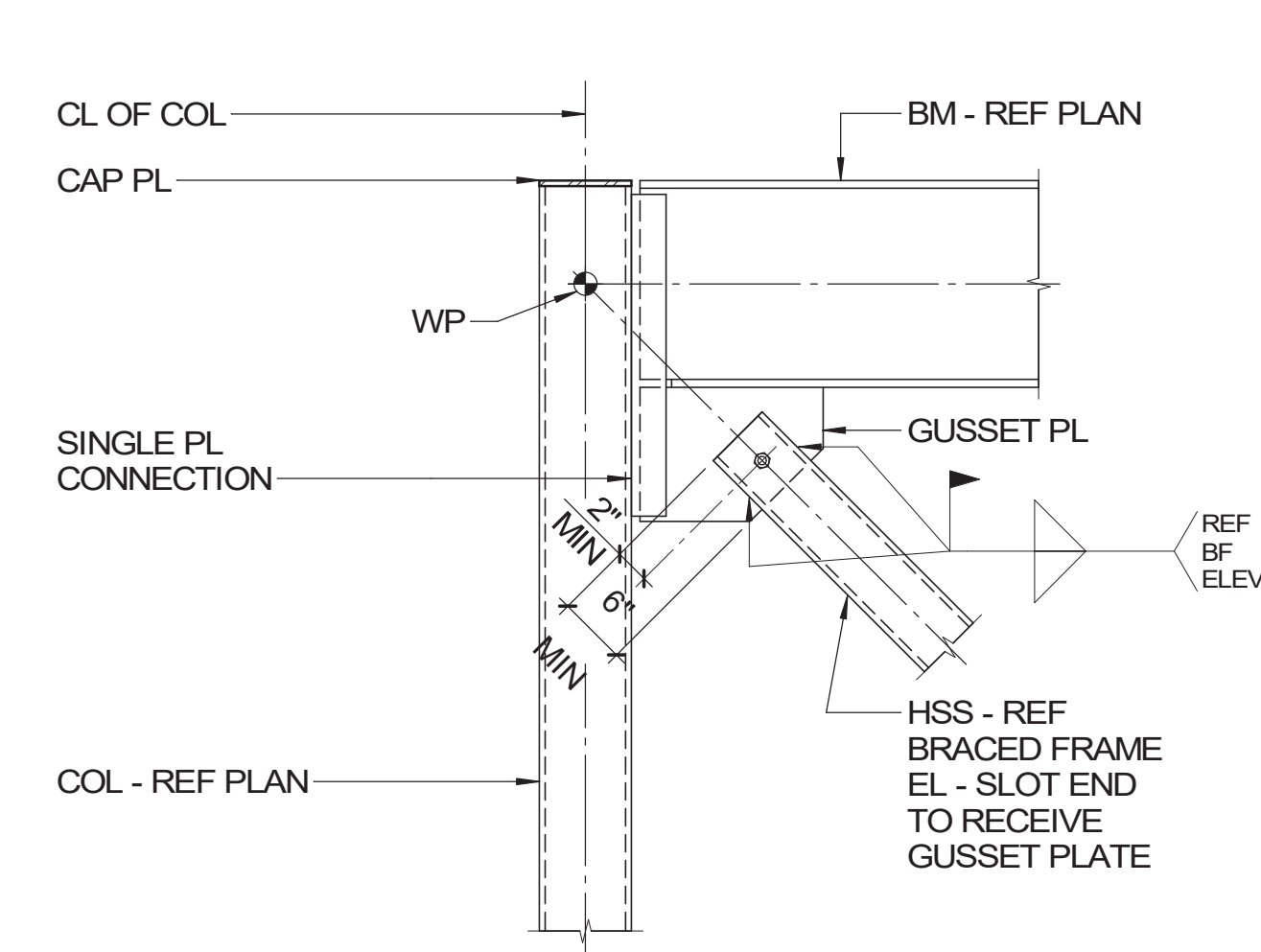
6 DETAIL
3/4" = 1'-0"



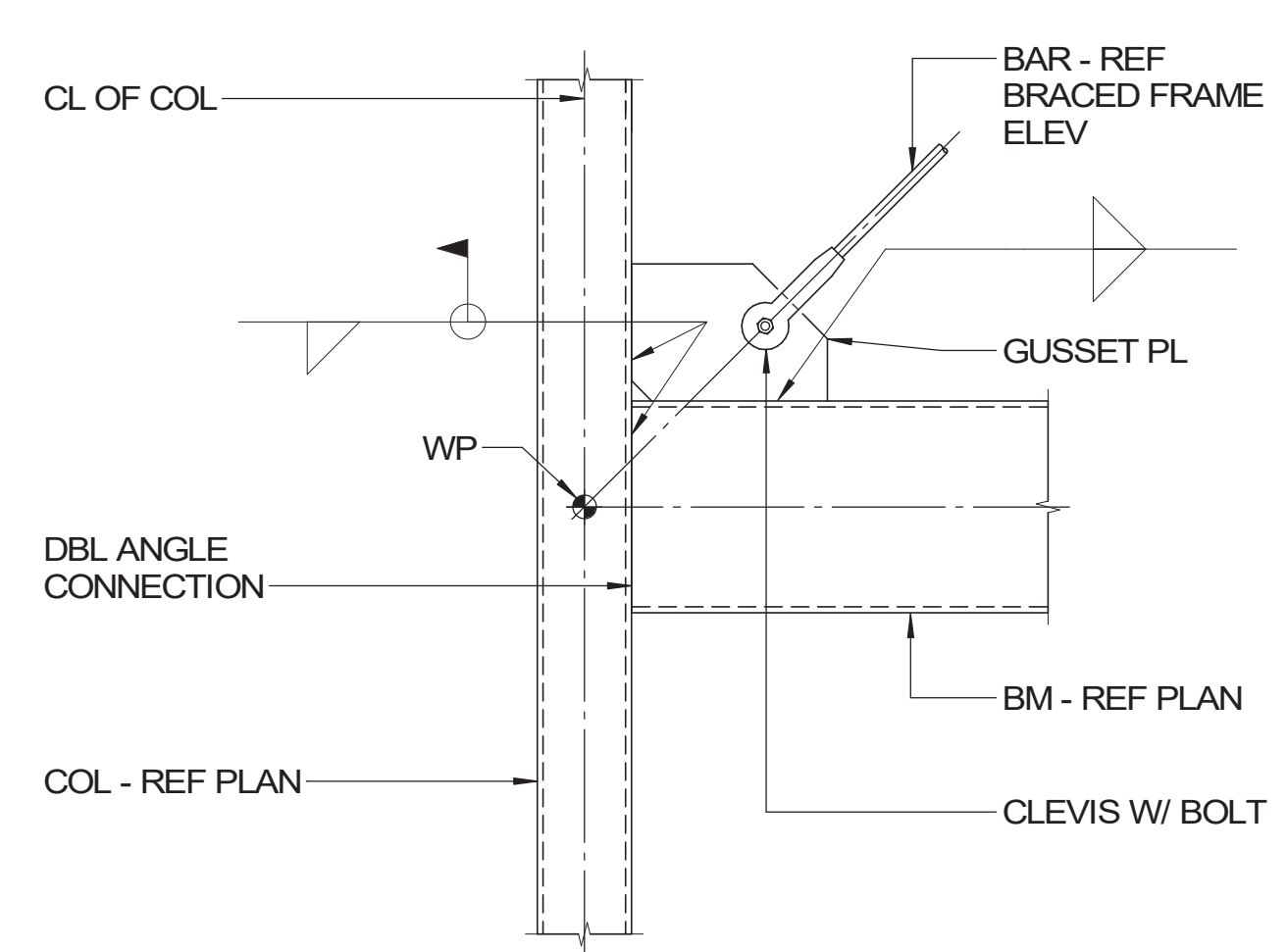
1 DETAIL - TYPICAL KNEE BRACE CONNECTION
3/4" = 1'-0"



2 DETAIL
3/4" = 1'-0"



3 DETAIL
3/4" = 1'-0"



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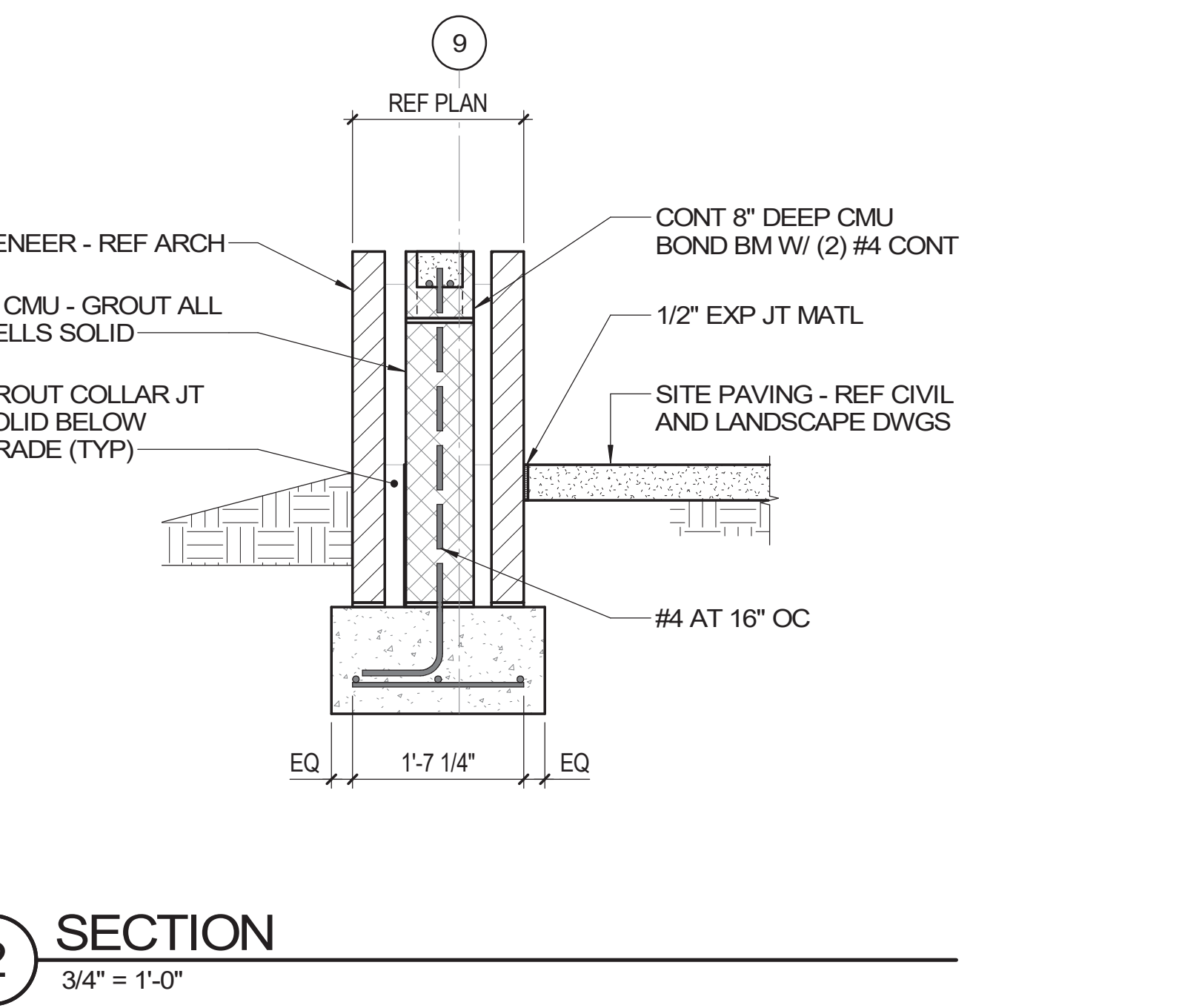
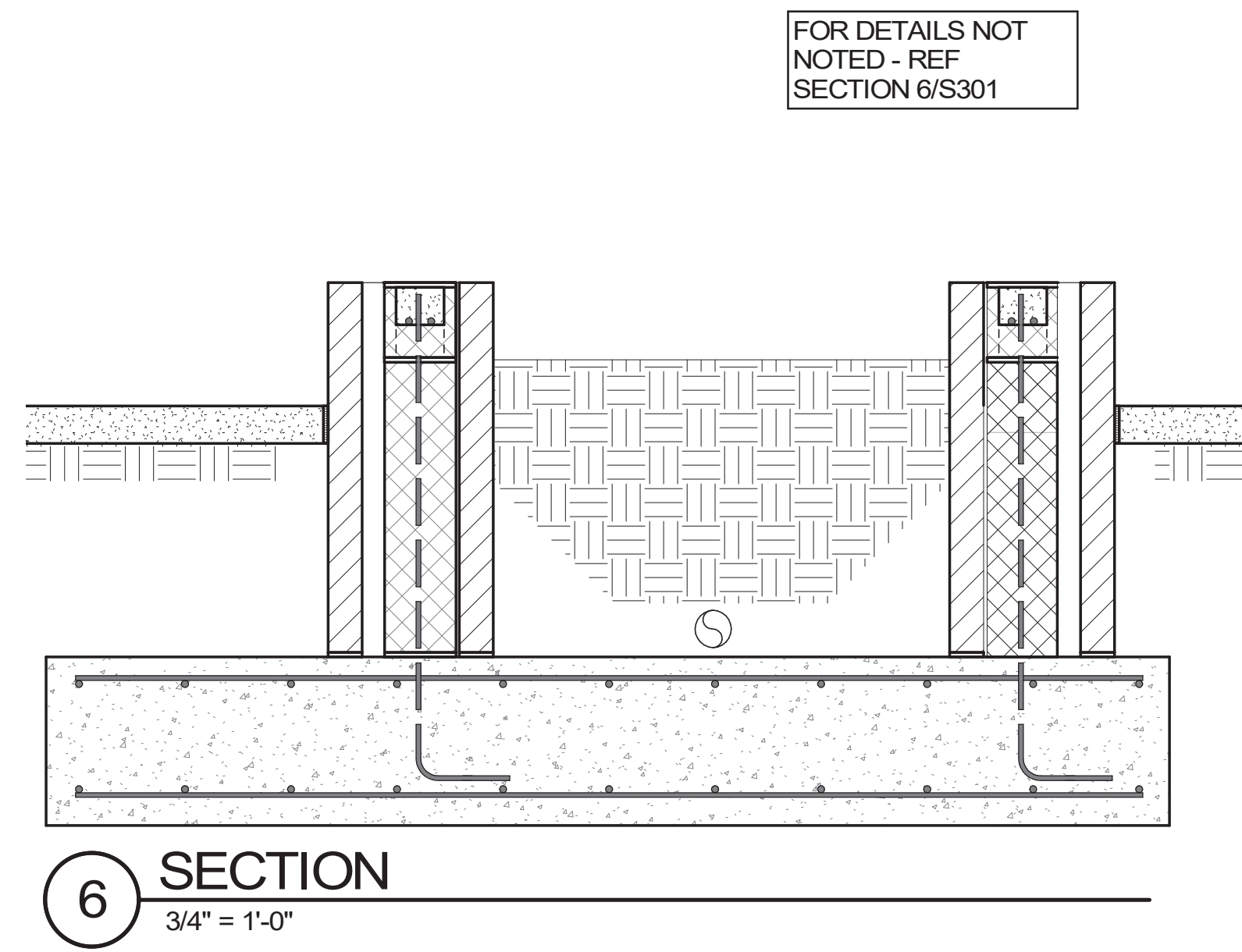
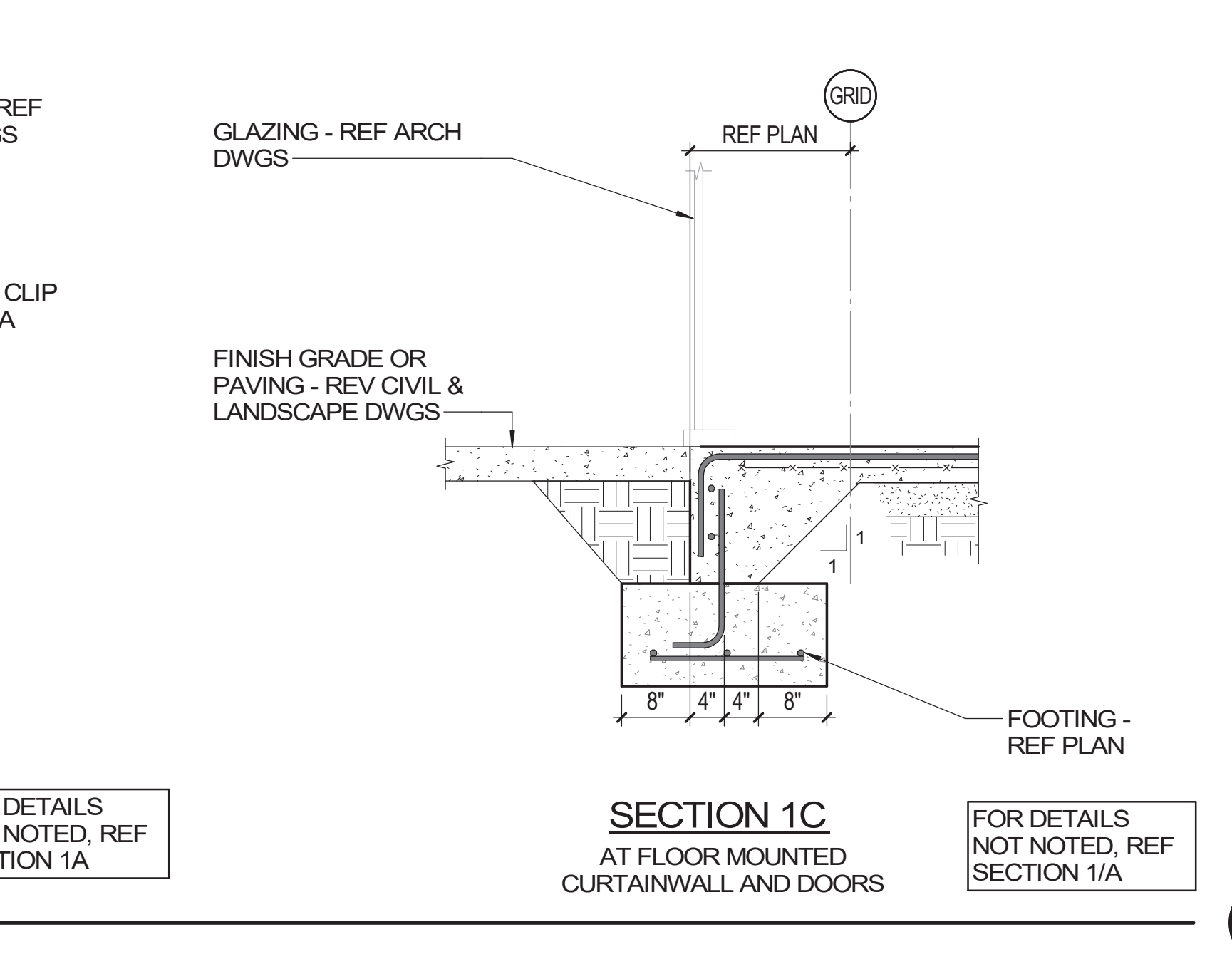
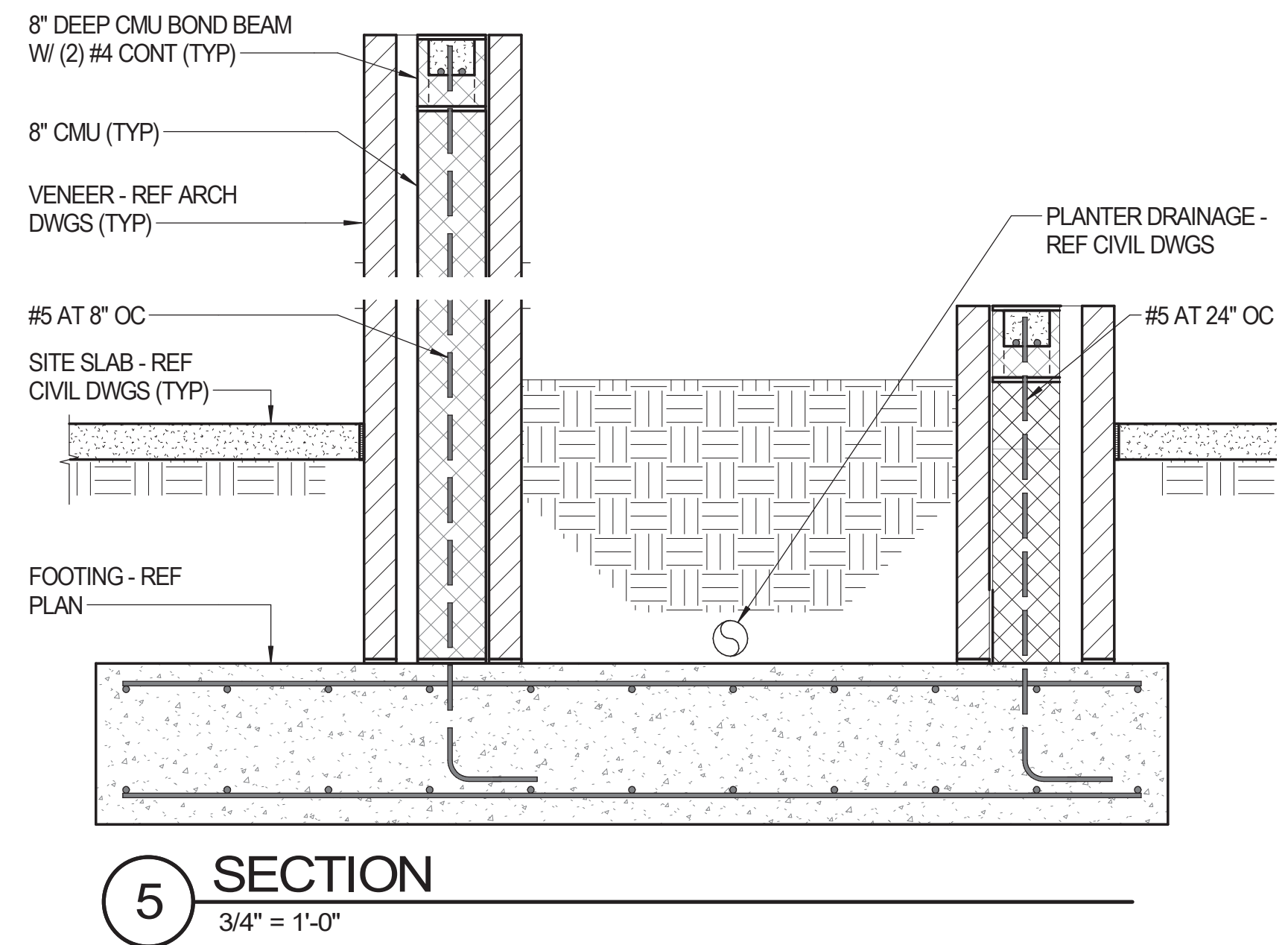
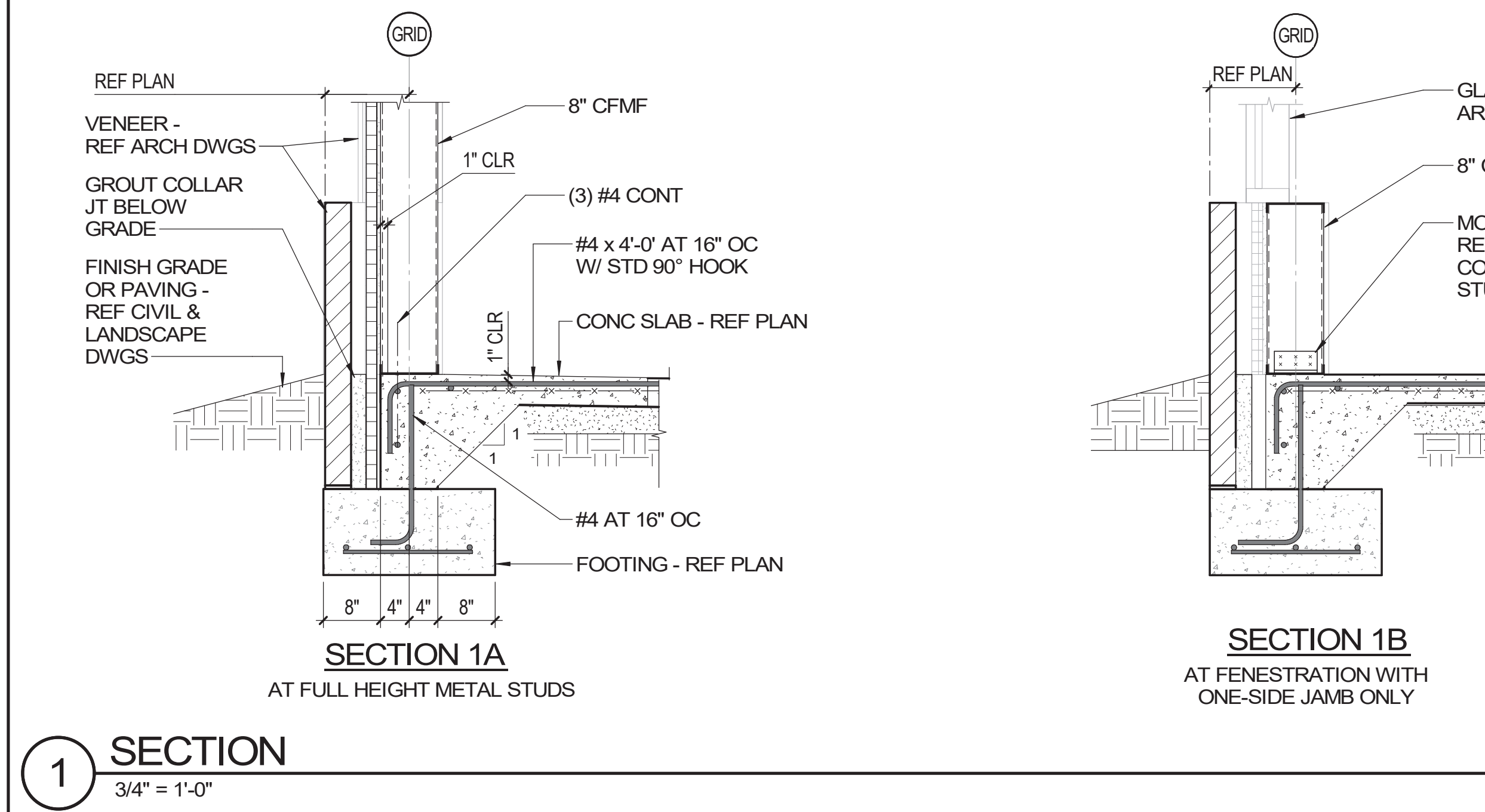
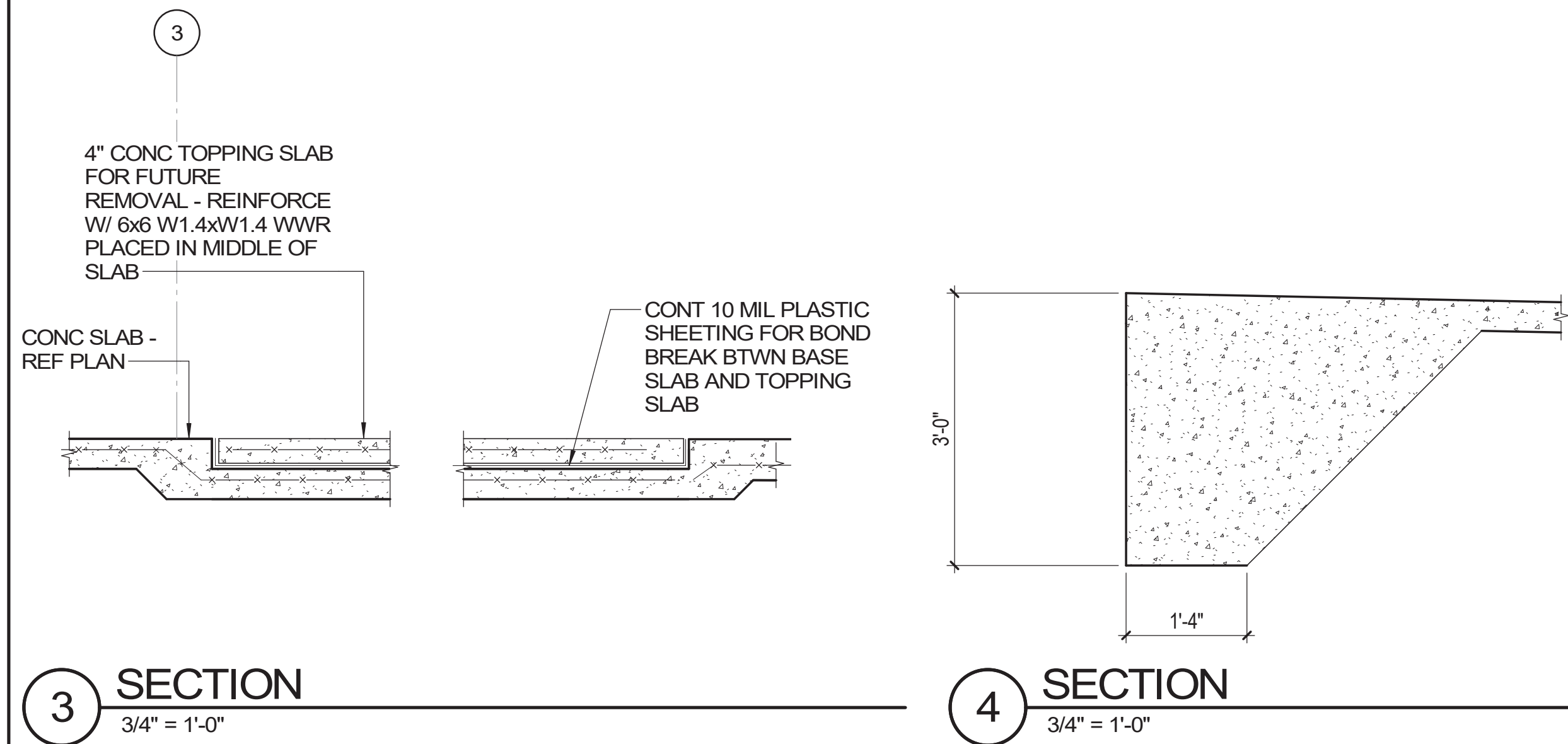


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SHEET
BRACE FRAME DETAILS

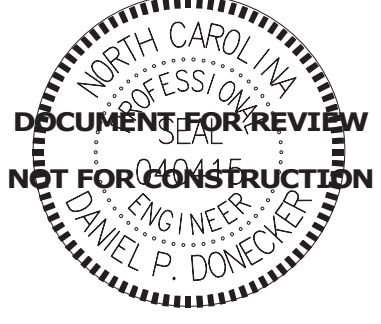
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FOR DETAILS NOT NOTED - REF SECTION 6/S301

FOR DETAILS NOT NOTED, REF SECTION 1A

FOR DETAILS NOT NOTED, REF SECTION 1/A



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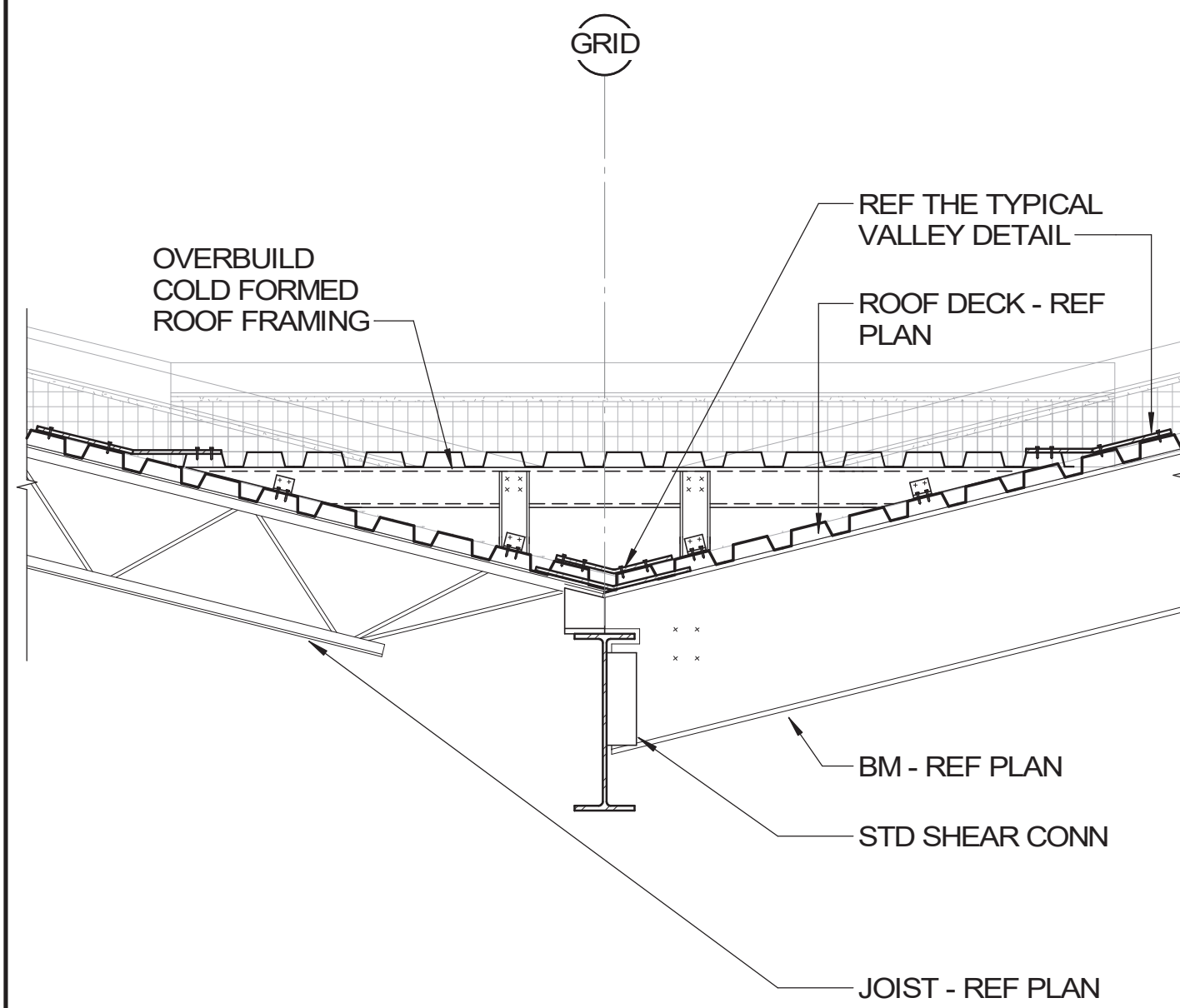
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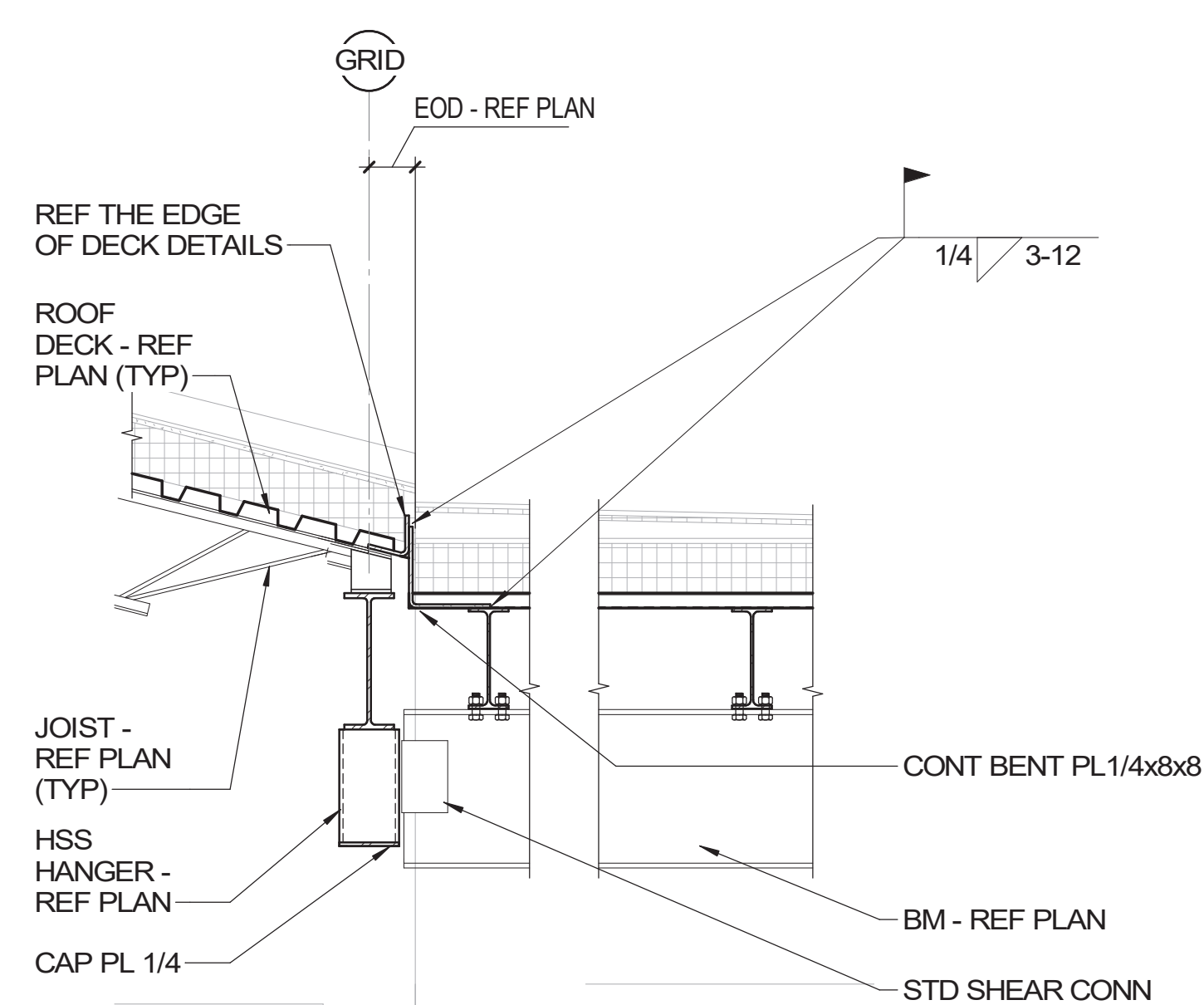
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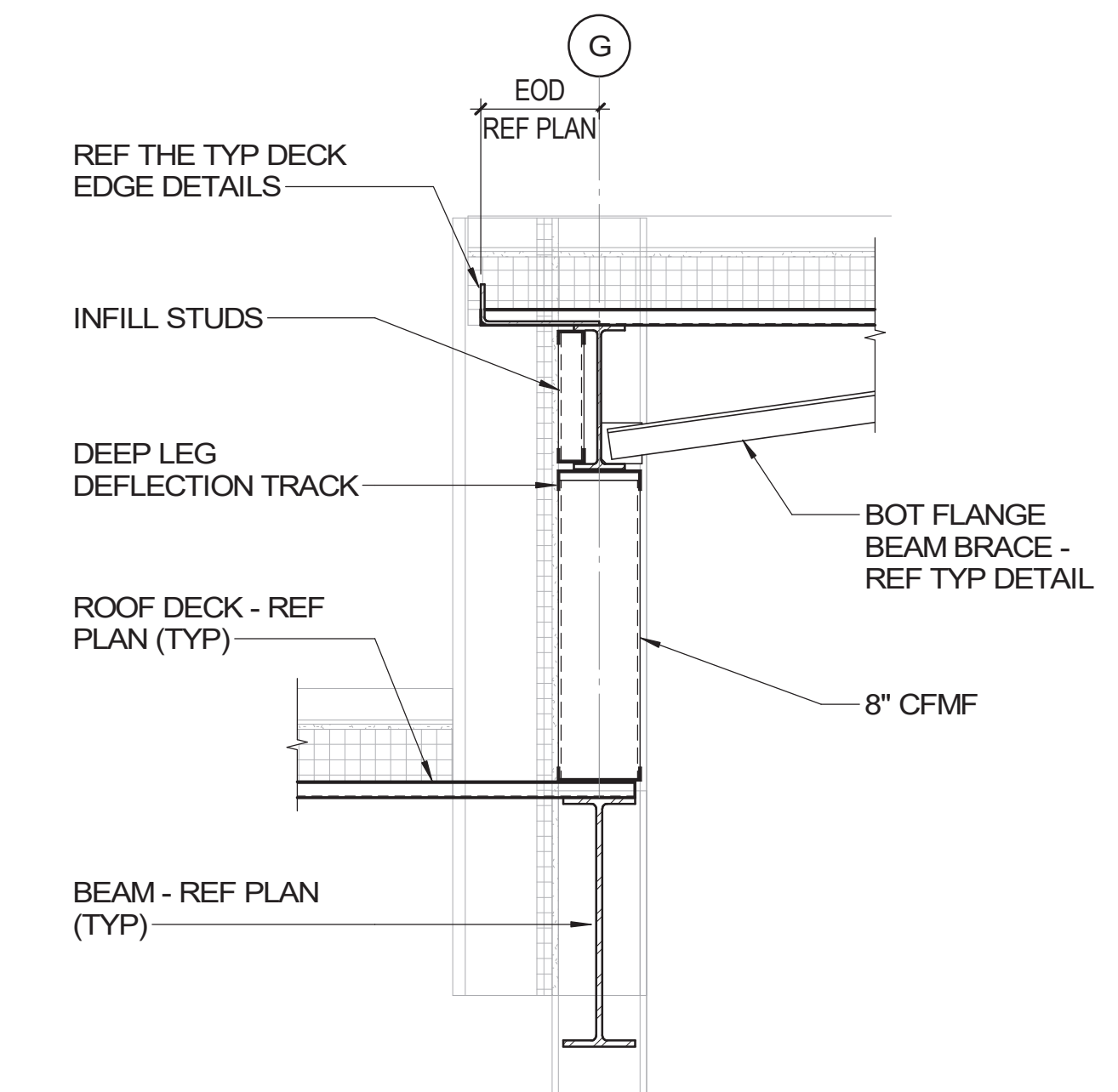
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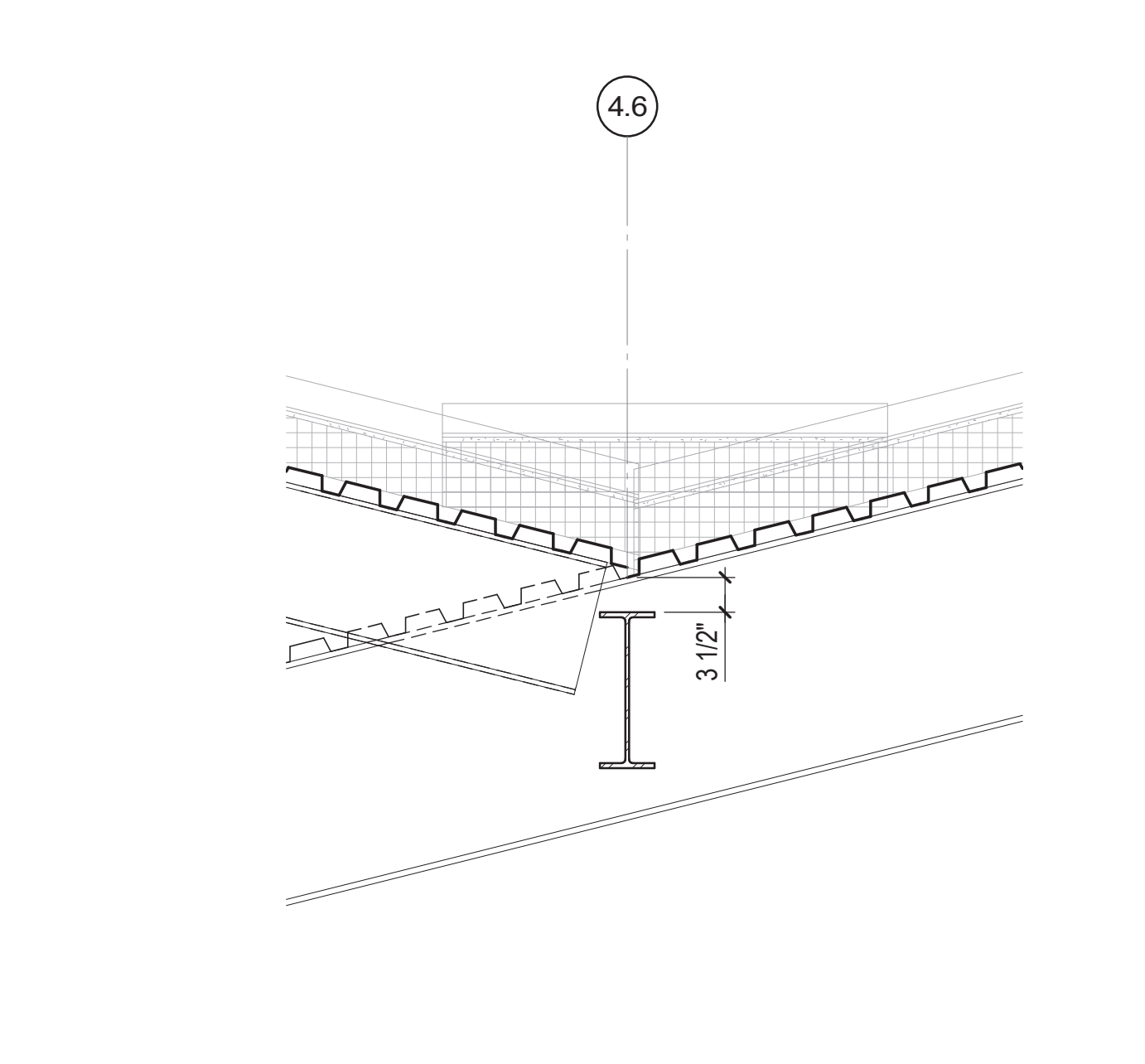
8 SECTION
3/4" = 1'-0"



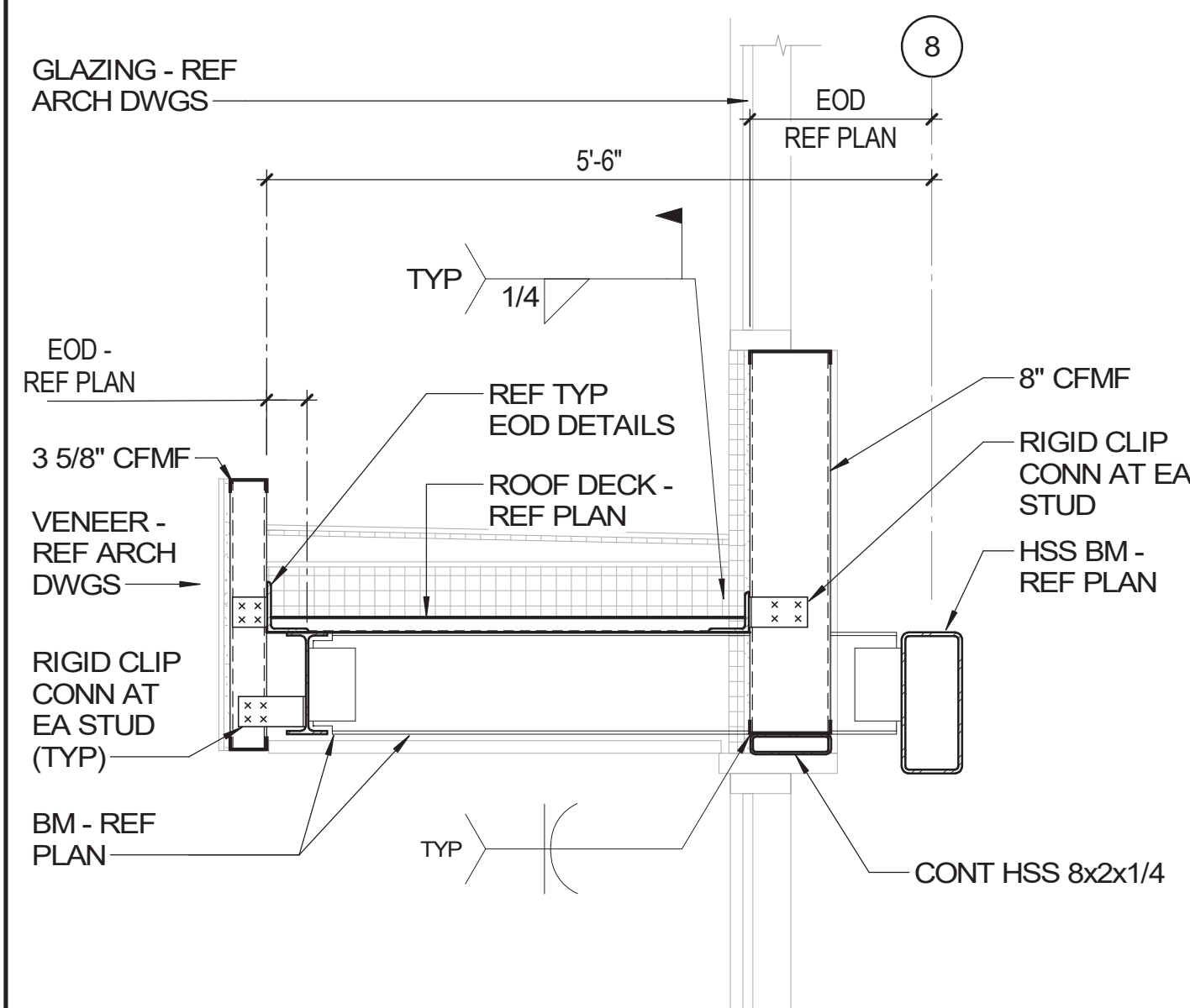
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3/4" = 1'-0"



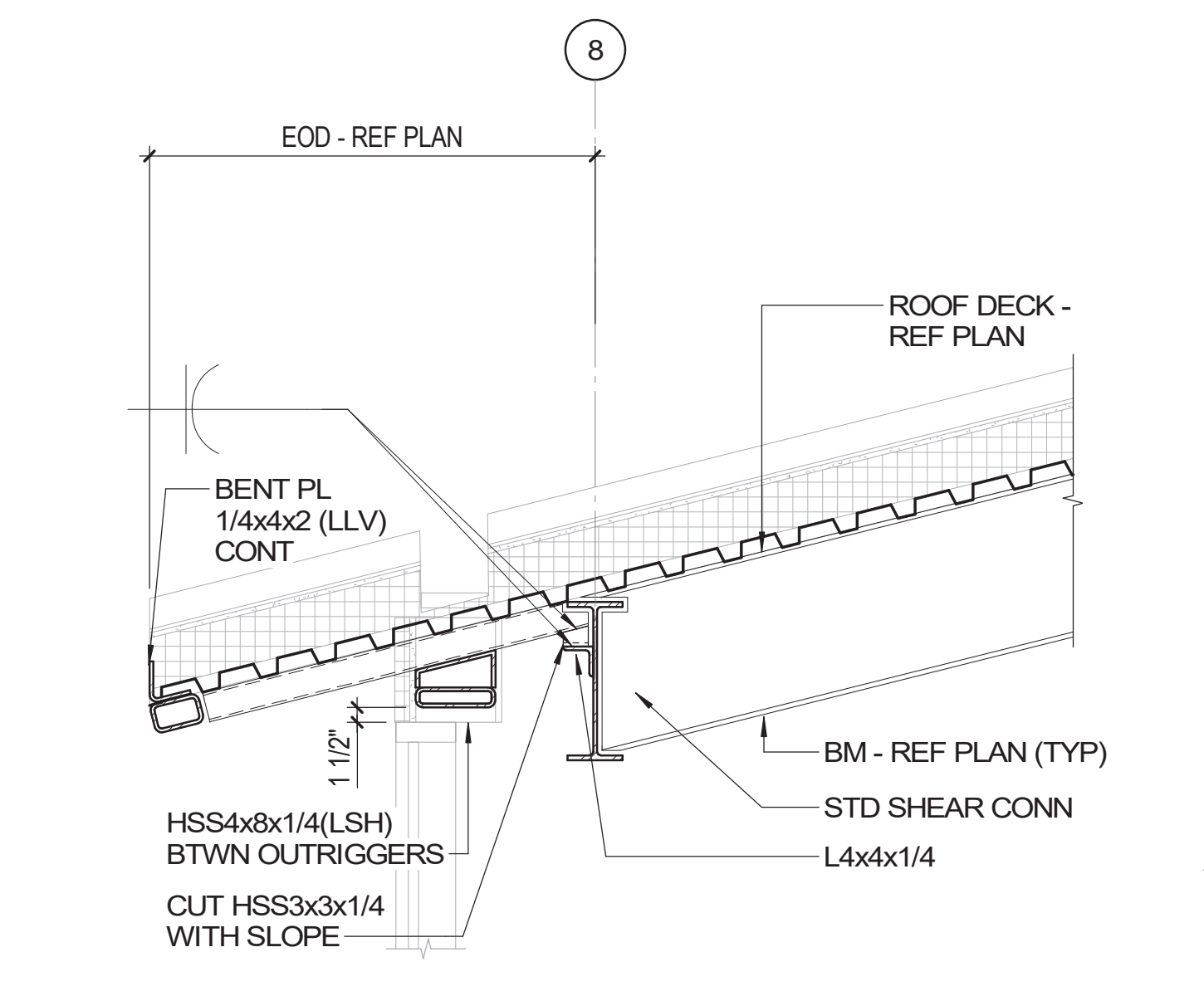
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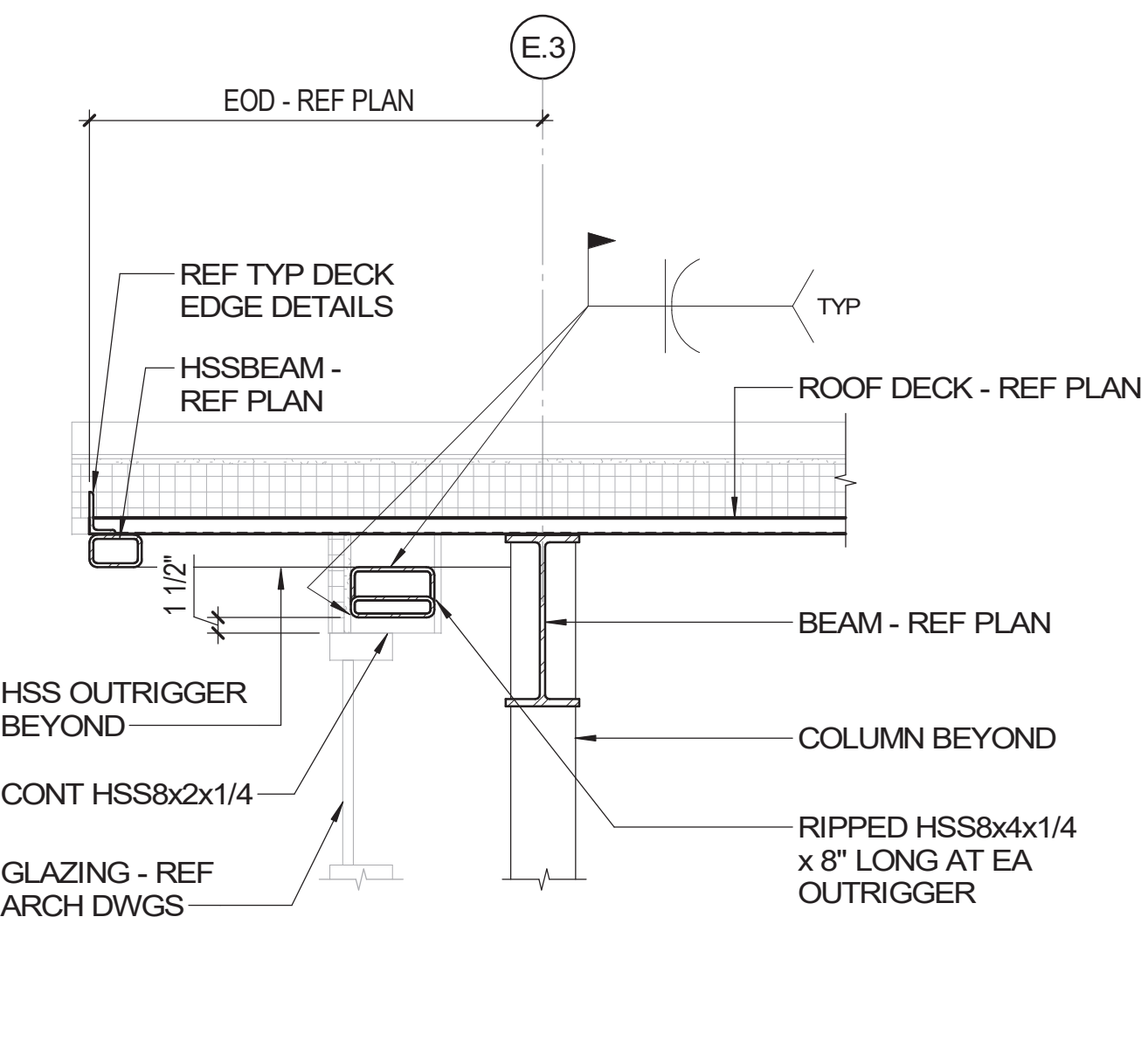
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3/4" = 1'-0"



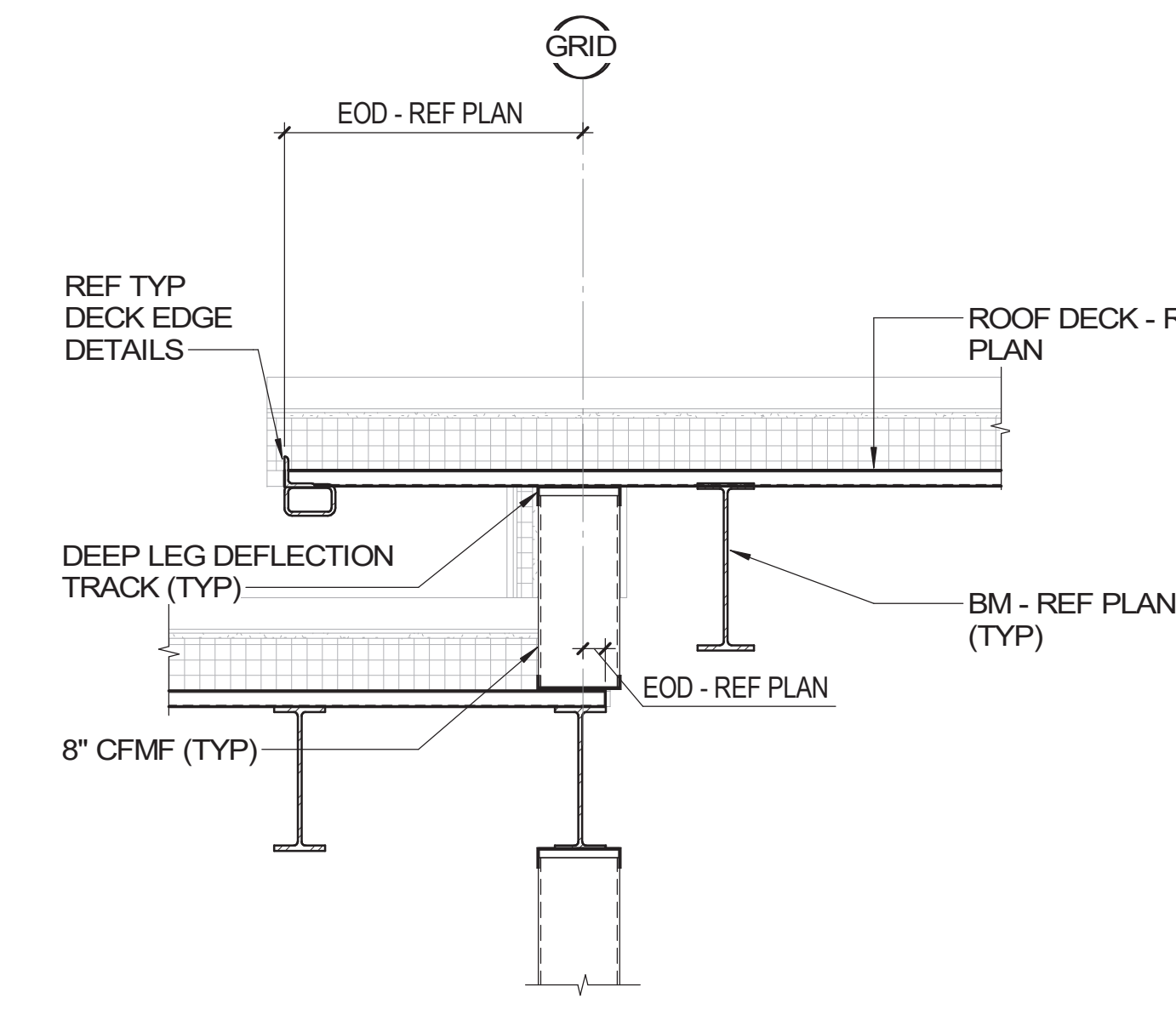
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3/4" = 1'-0"



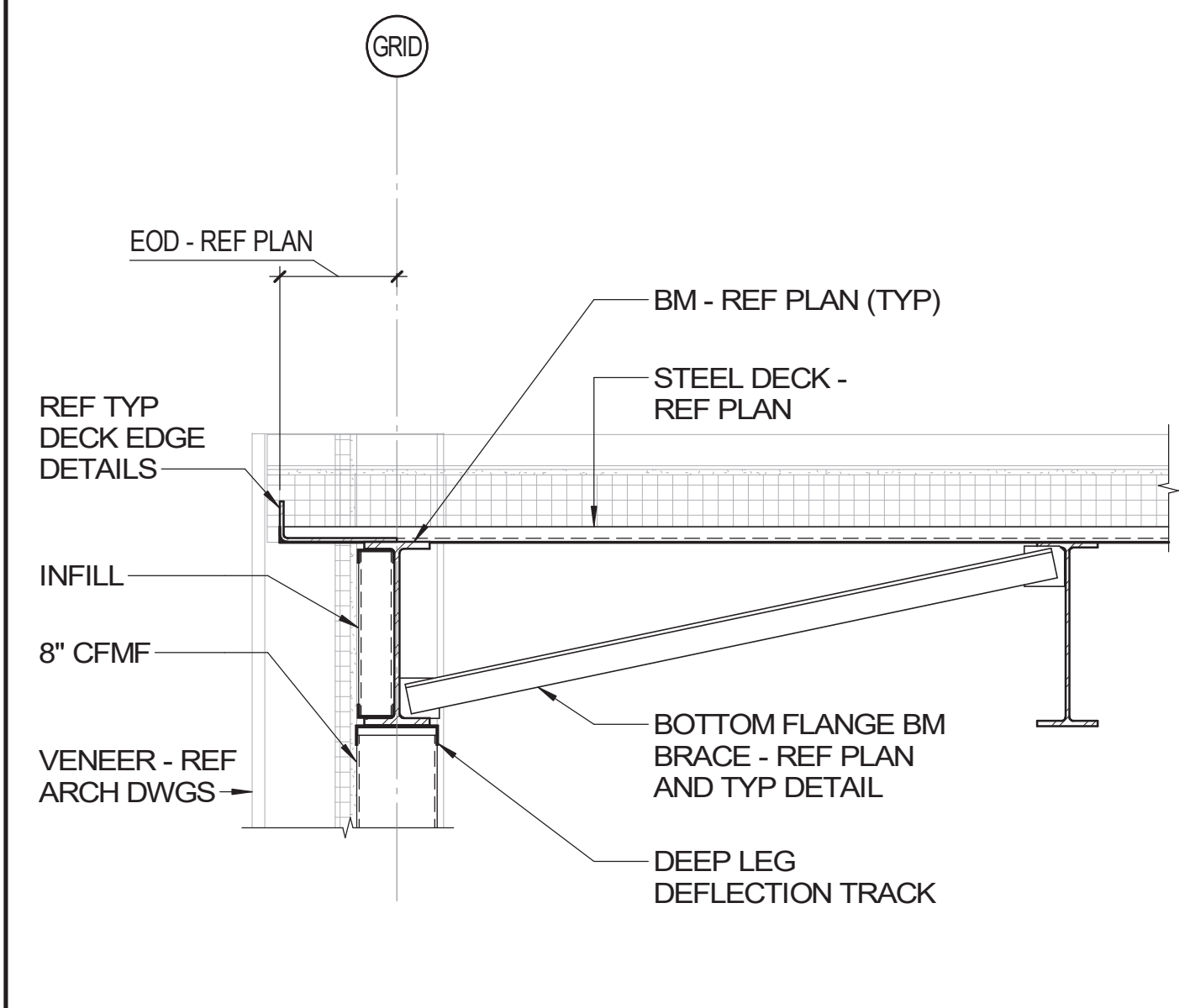
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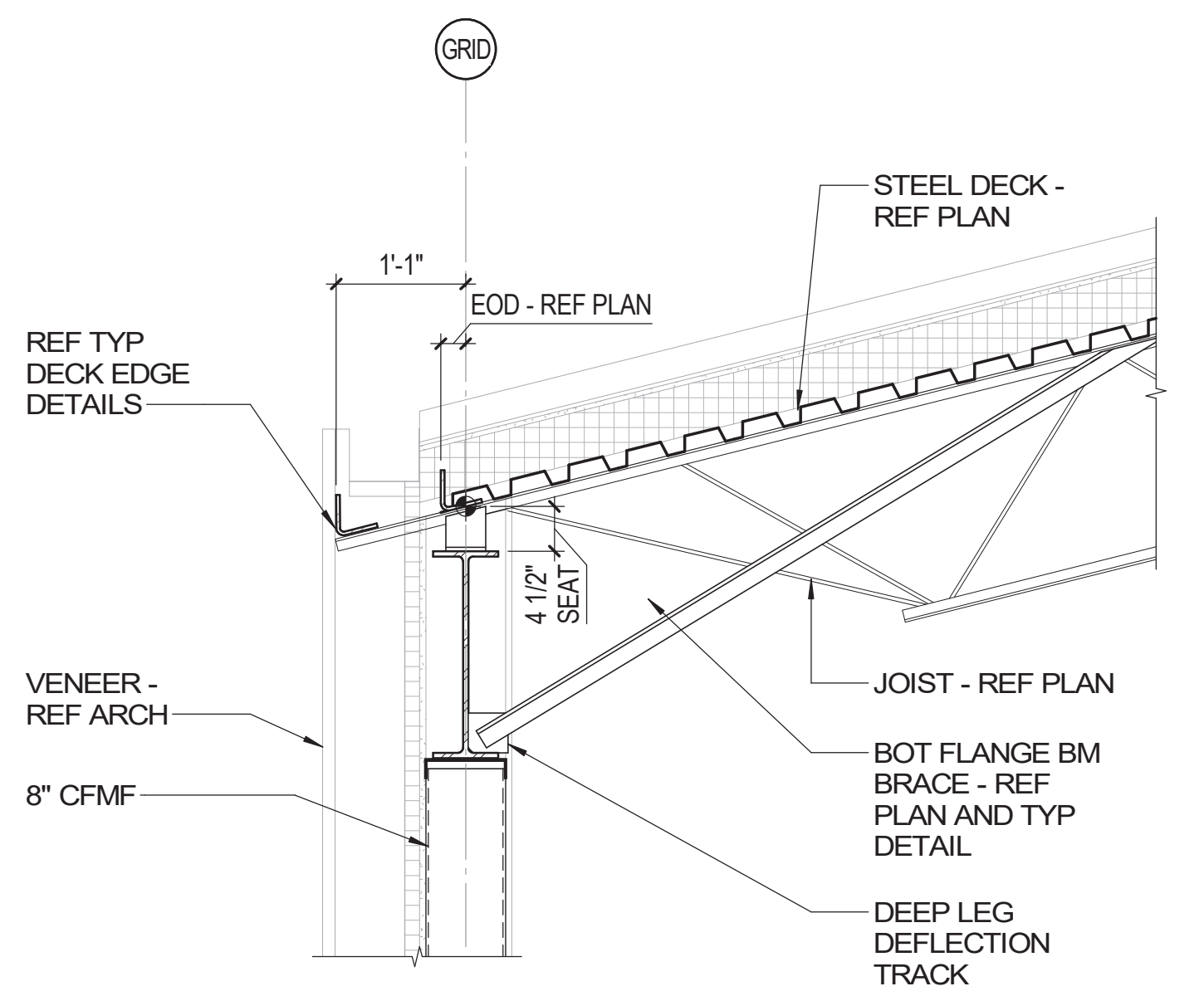
6 SECTION
3/4" = 1'-0"



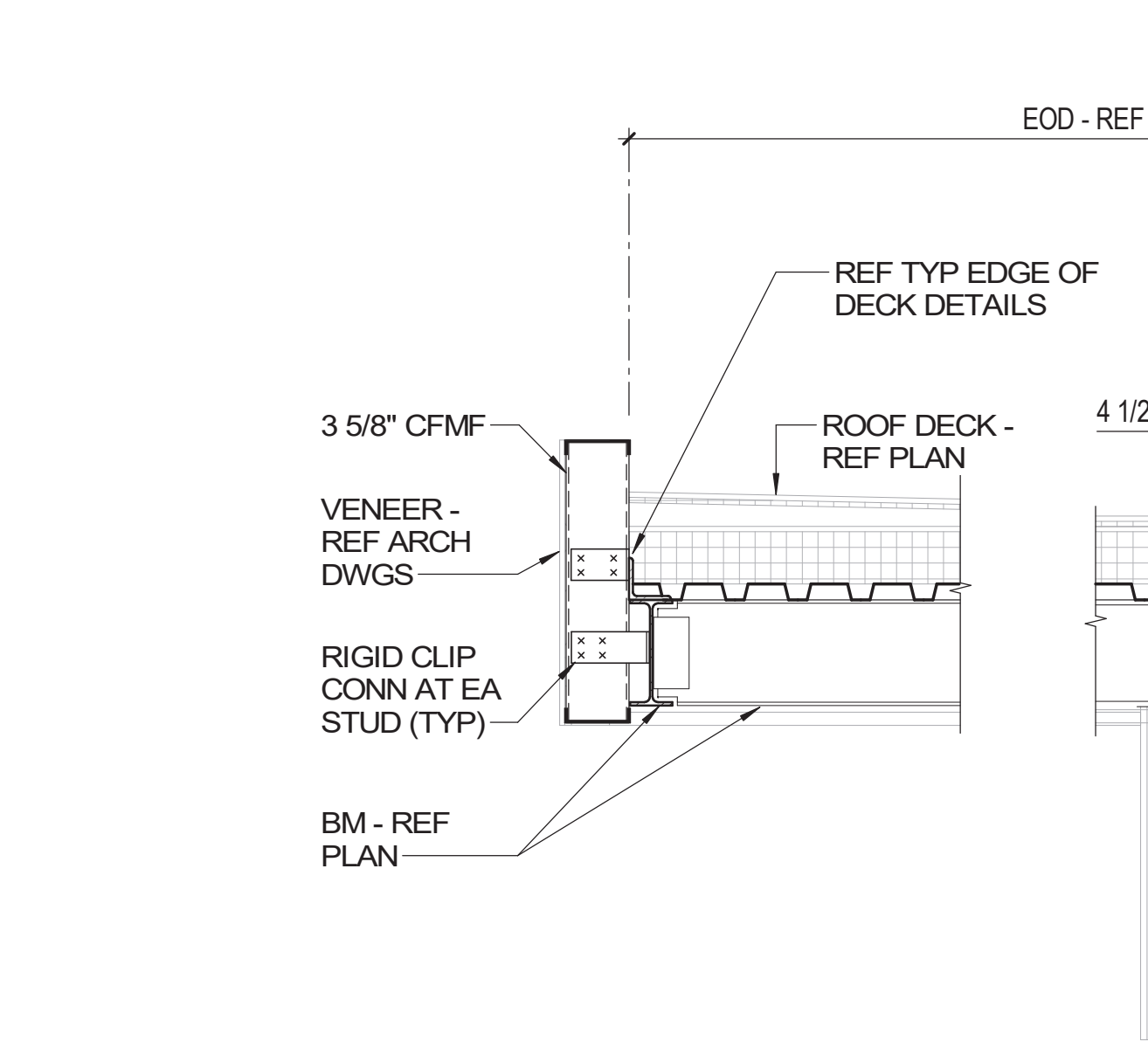
7 SECTION
3/4" = 1'-0"



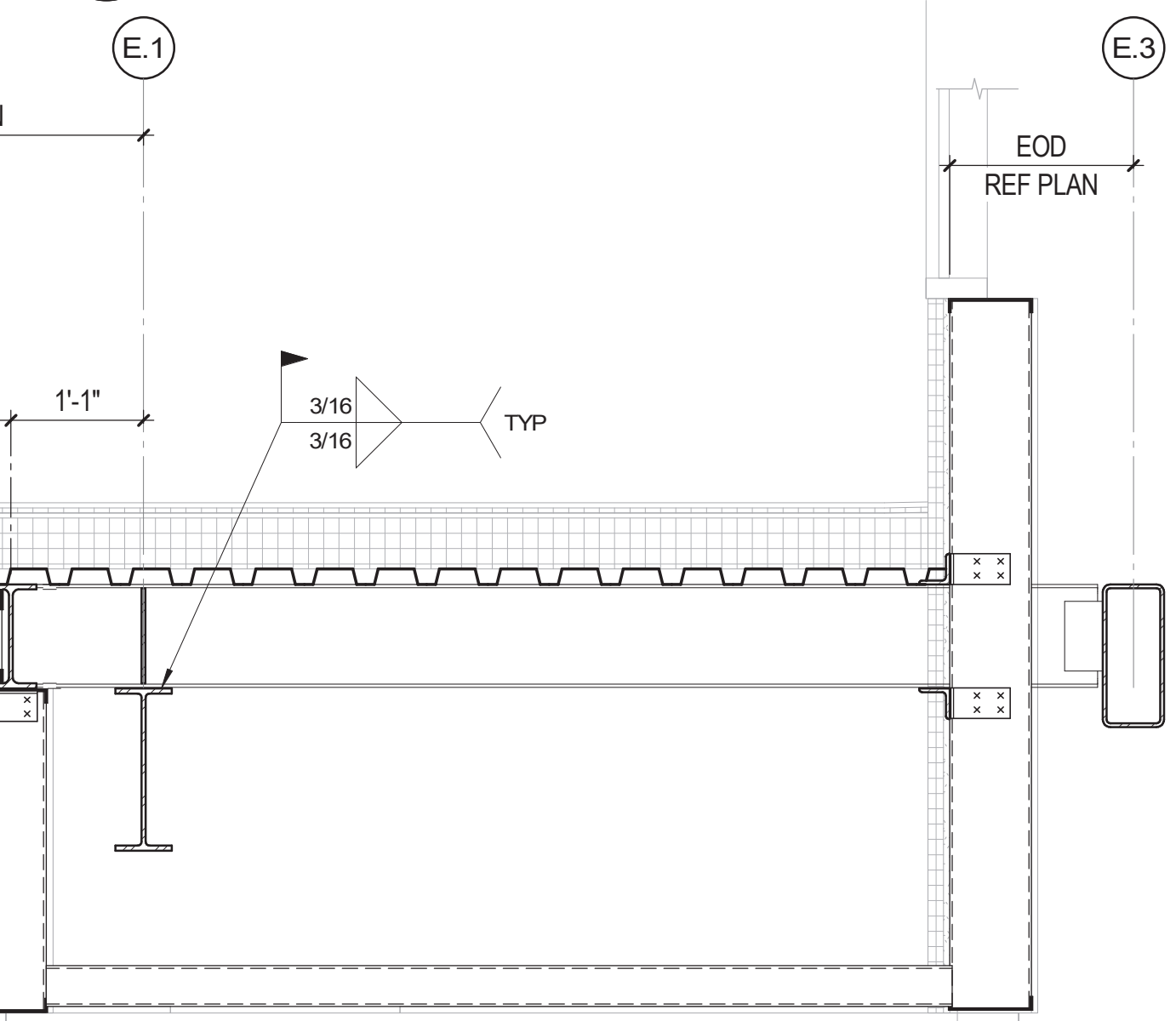
1 SECTION
3/4" = 1'-0"



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



3 SECTION
3/4" = 1'-0"



7 SECTION
3/4" = 1'-0"

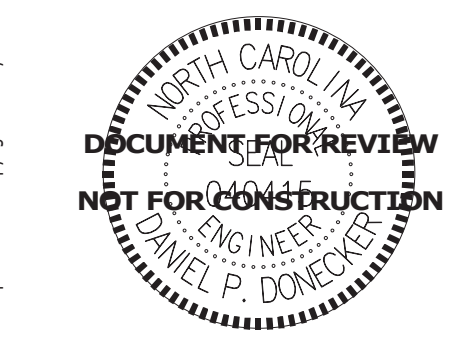
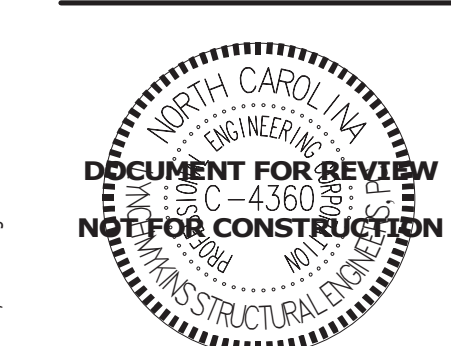


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22-004



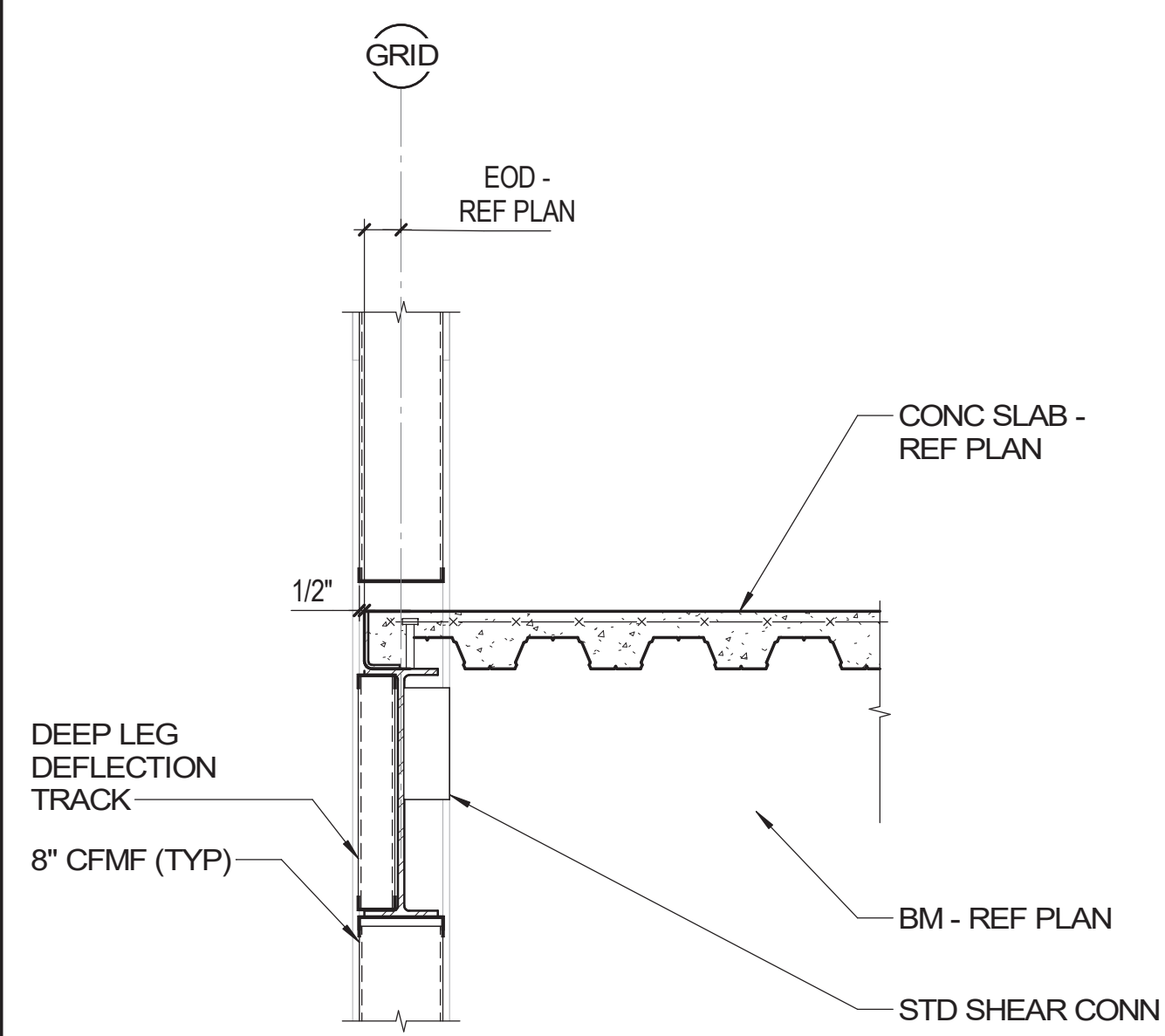
NO.	REVISION	DATE

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100% CD

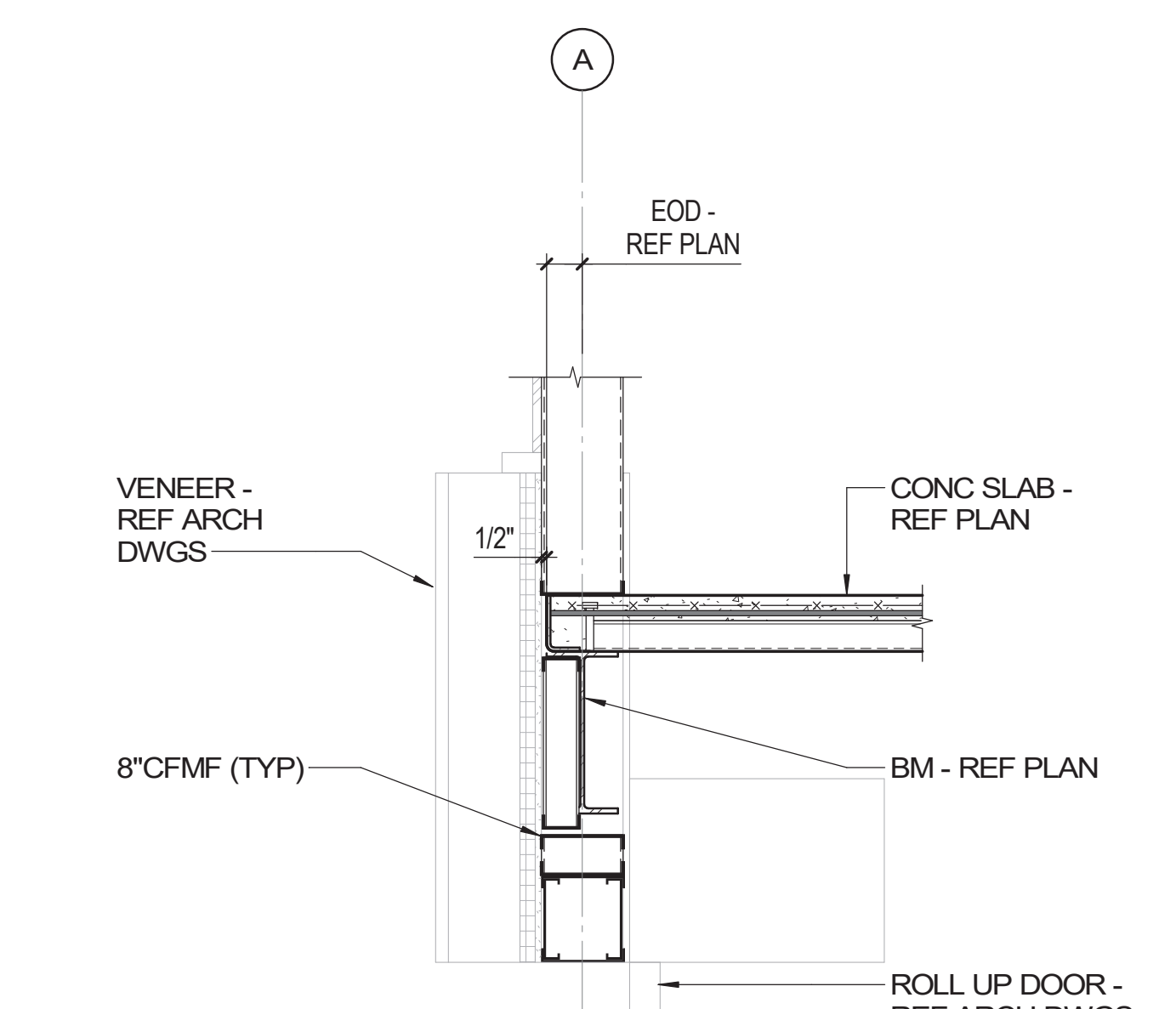
SHEET
SECTIONS

S302

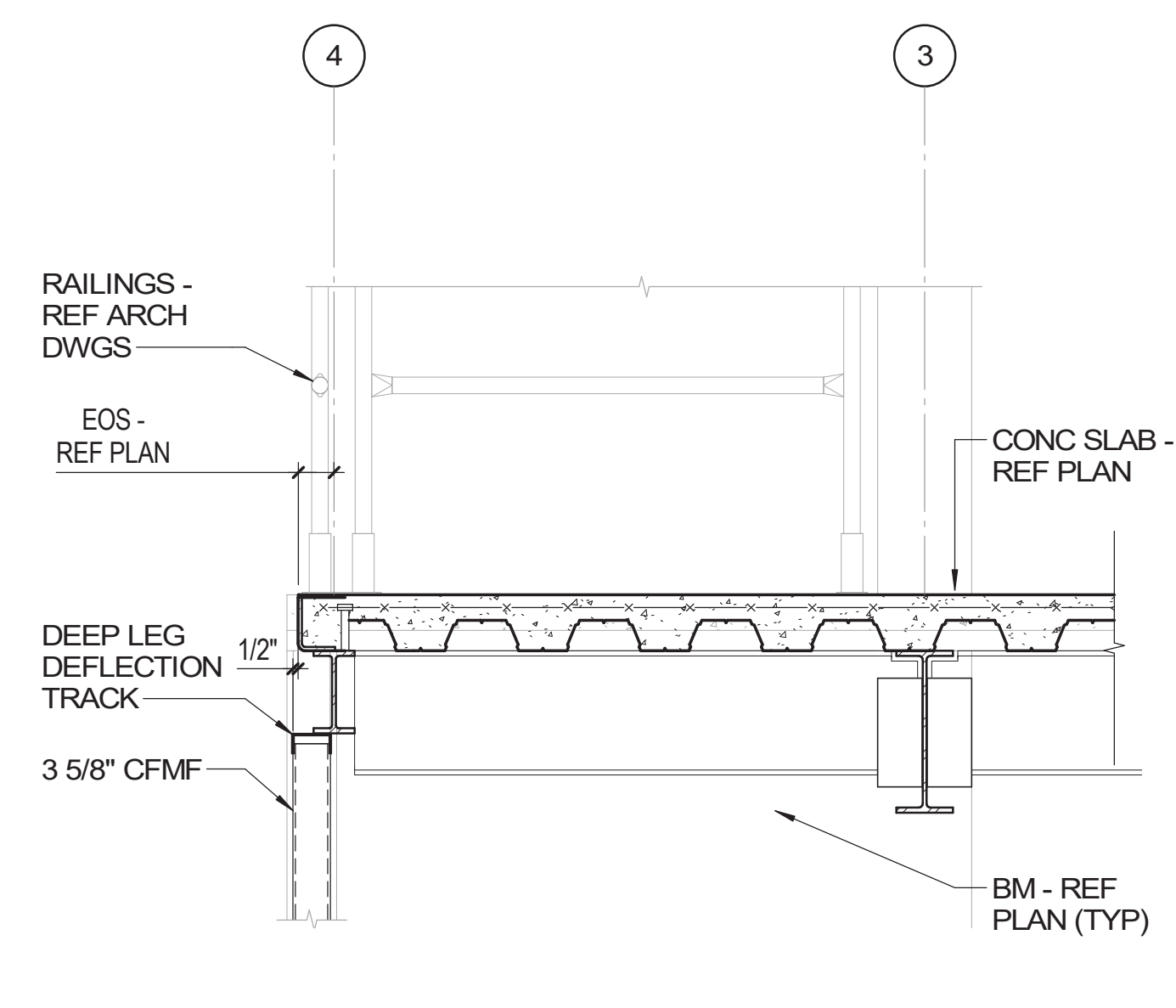
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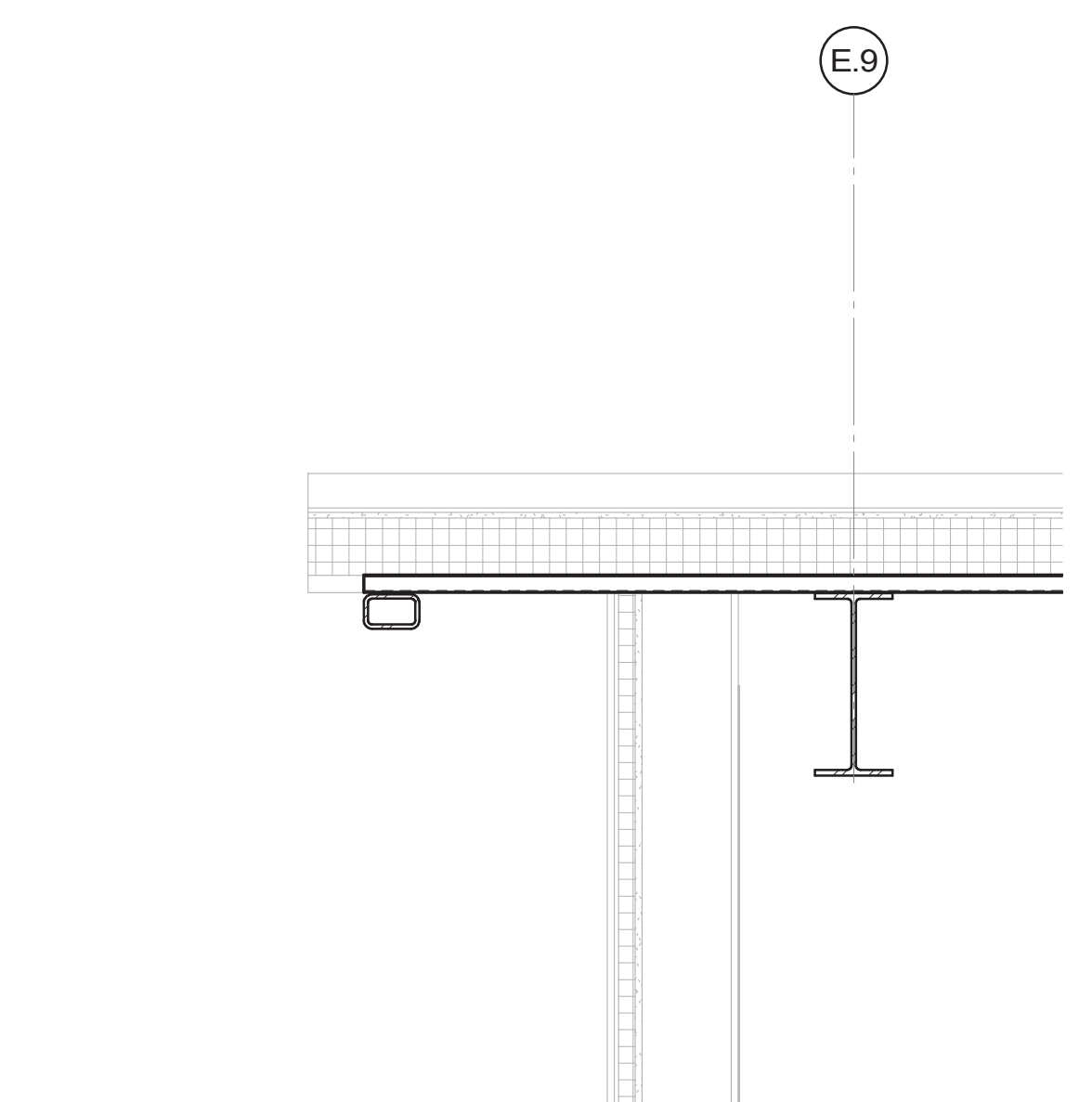
1 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



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



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SHEET
SECTIONS

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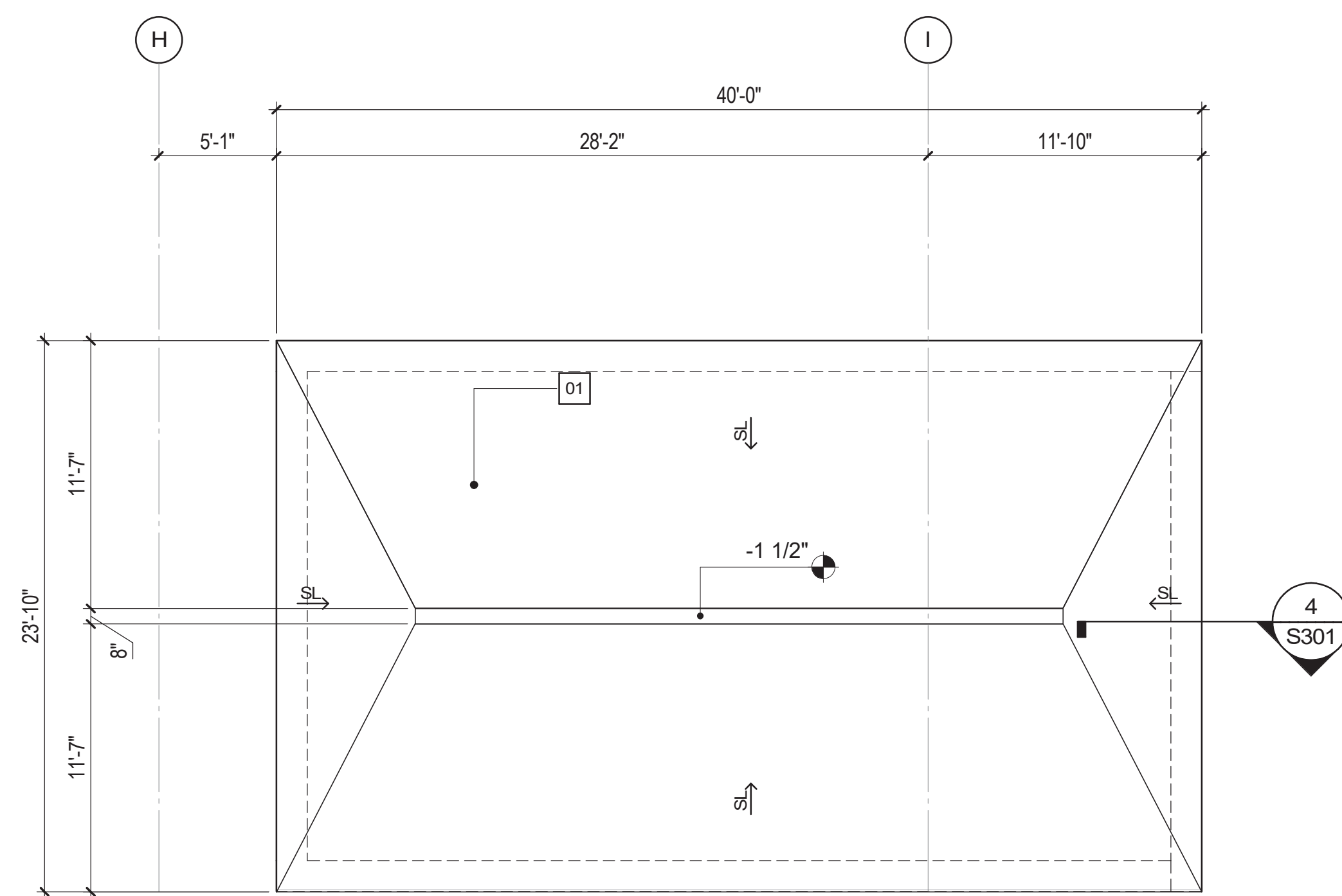
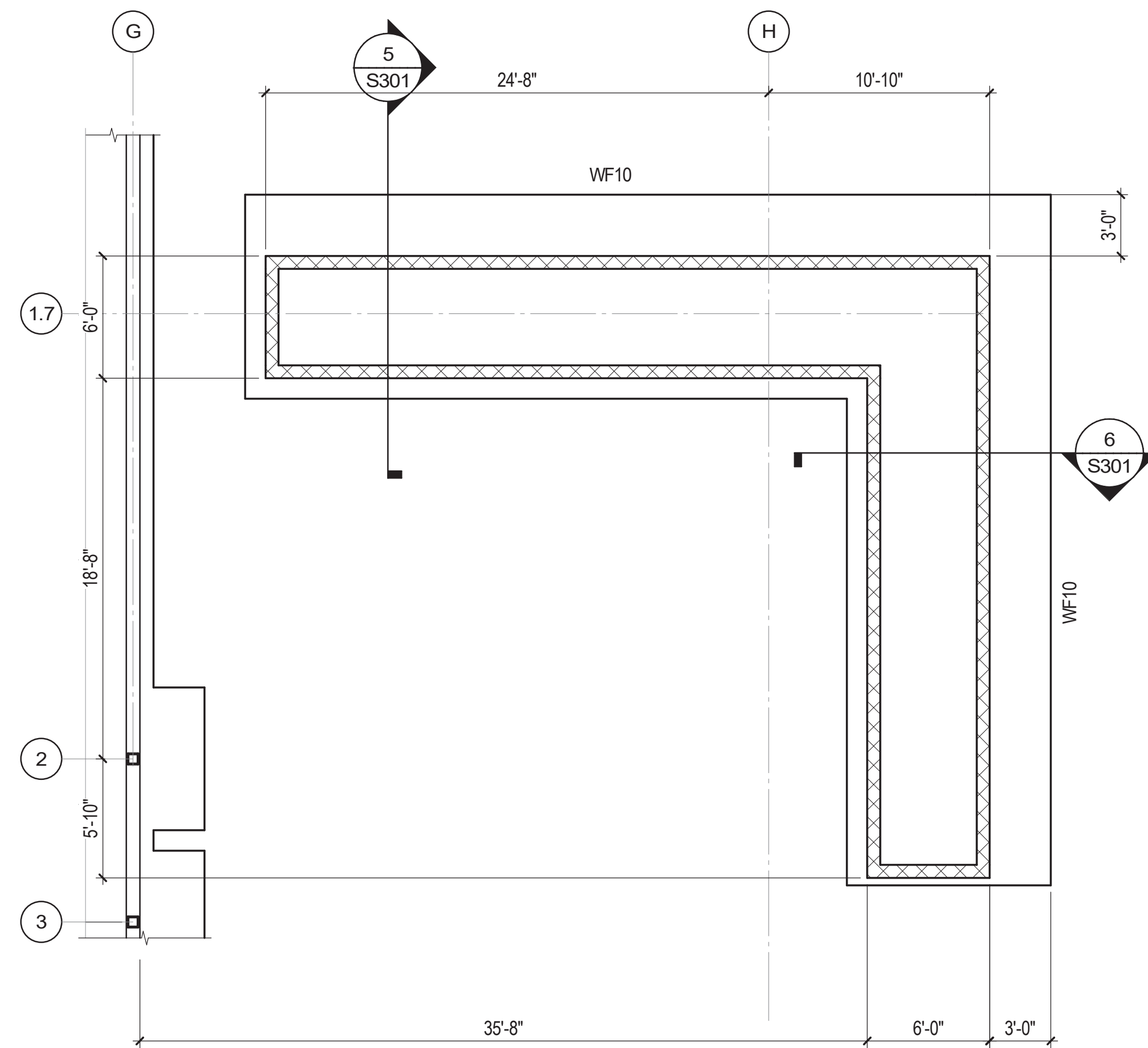
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22-004

FRAMING PLAN NOTES

- A. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- B. COMPOSITE BEAMS SHALL BE EQUALLY SPACED NOT TO EXCEED 8'-0" OC.
- C. 3 1/2" LIGHTWEIGHT CONCRETE SLAB ON 2" COMPOSITE FLOOR DECK, (5 1/2" TOTAL) REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE REINFORCING LOCATED 1" CLEAR BELOW TOP OF SLAB.
- D. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.
- E. PROVIDE BOTTOM CHORD EXTENSIONS AT ALL JOISTS ON COLUMN CENTERLINES.
- F. ROOF FRAMING SHALL BE EQUALLY SPACED NOT TO EXCEED 5'-6" OC TO SUPPORT STEEL ROOF DECK.
- G. BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS SHALL BE STRAIGHT LINES BETWEEN GIVEN ELEVATIONS. INTERPOLATE AS REQUIRED FOR INTERMEDIATE BEARING ELEVATIONS, UNLESS OTHERWISE NOTED.
- H. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.

KEY NOTES

- 01 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6 W2.1xW2.1 WELDED WIRE REINFORCING PLACED 1-1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.



1 SITE WALL FOUNDATION PLAN
3/16" = 1'-0"

2 GREENHOUSE SLAB PLAN
3/16" = 1'-0"



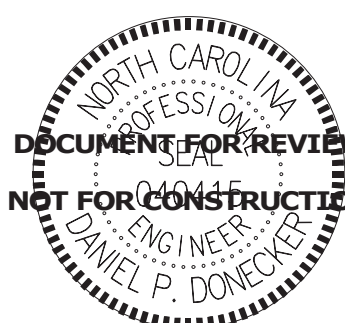
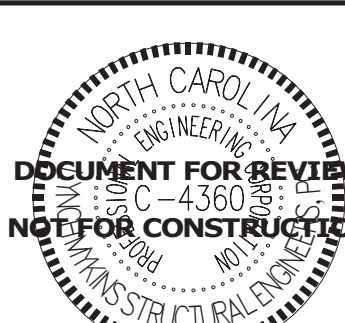
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SHEET
MISC PLANS

S401

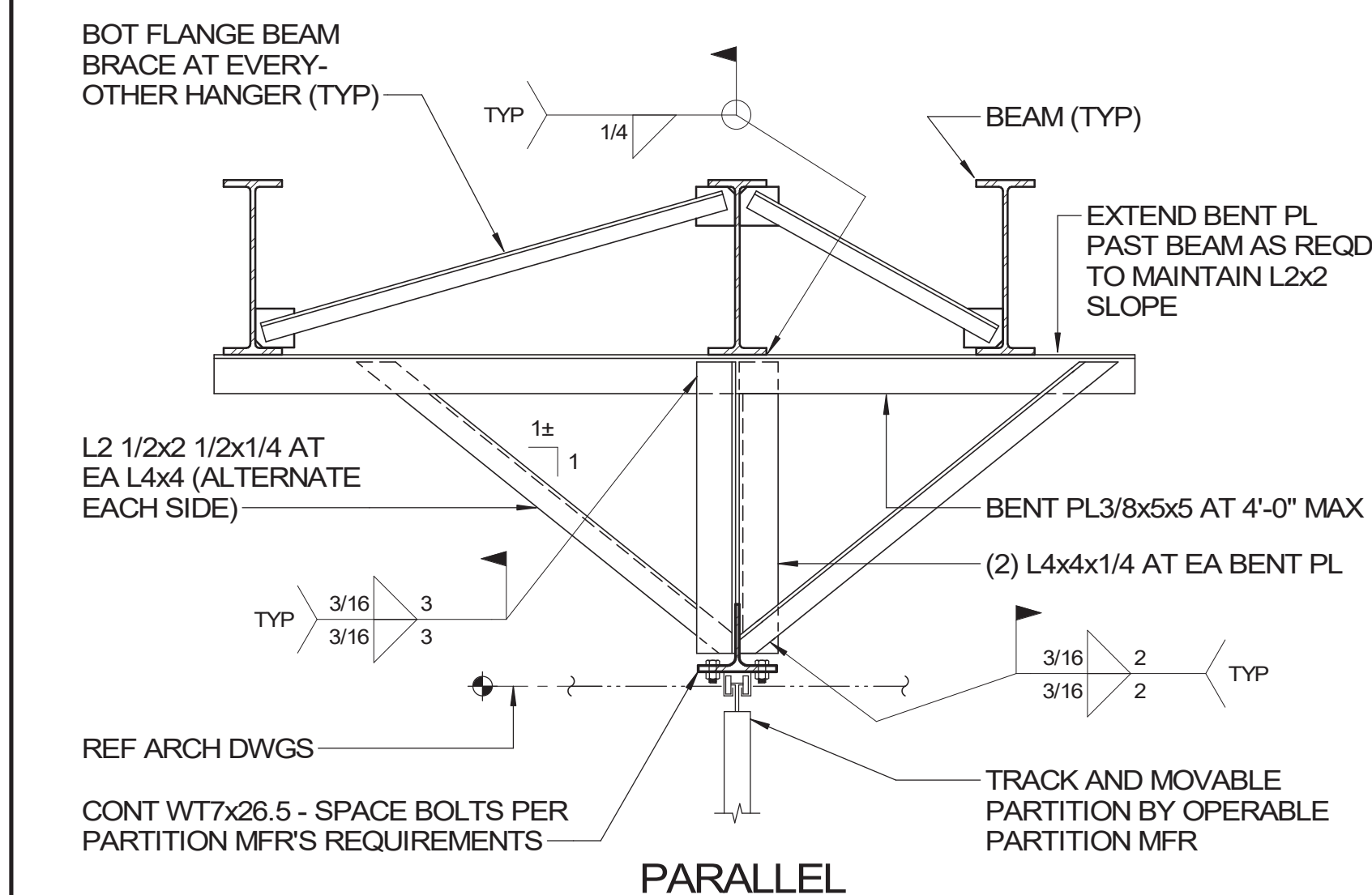
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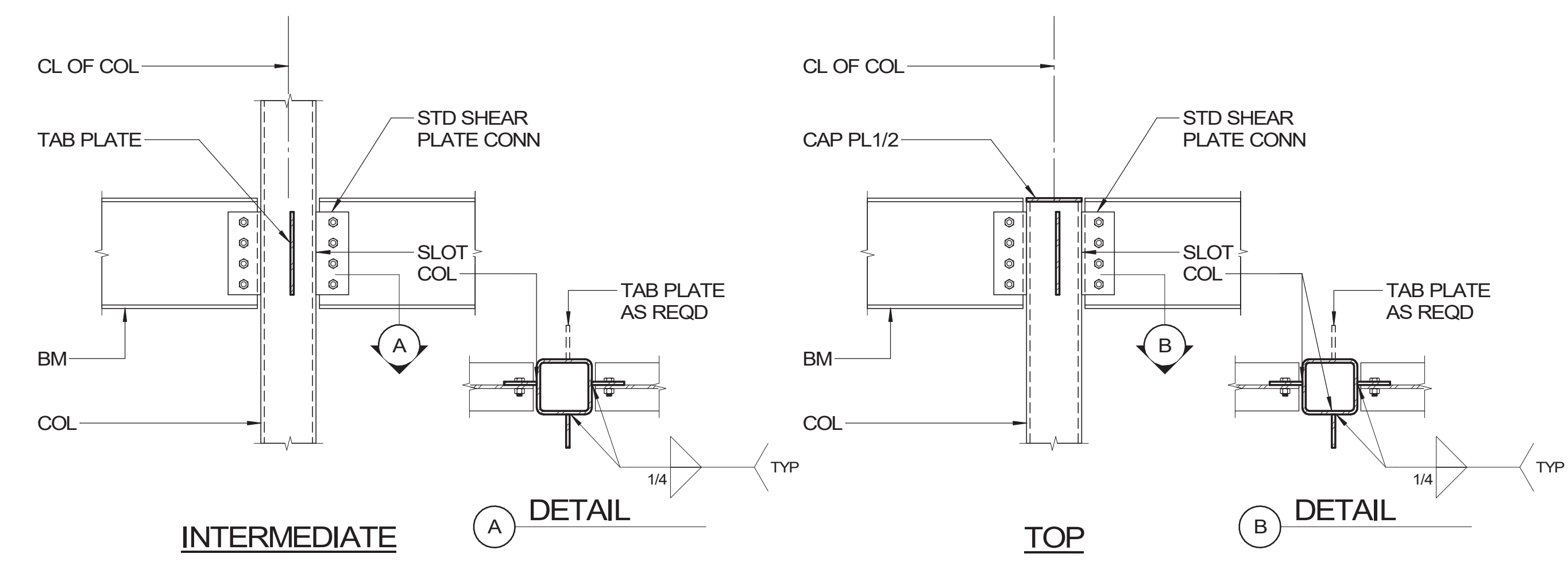
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SHEET
TYPICAL DETAILS



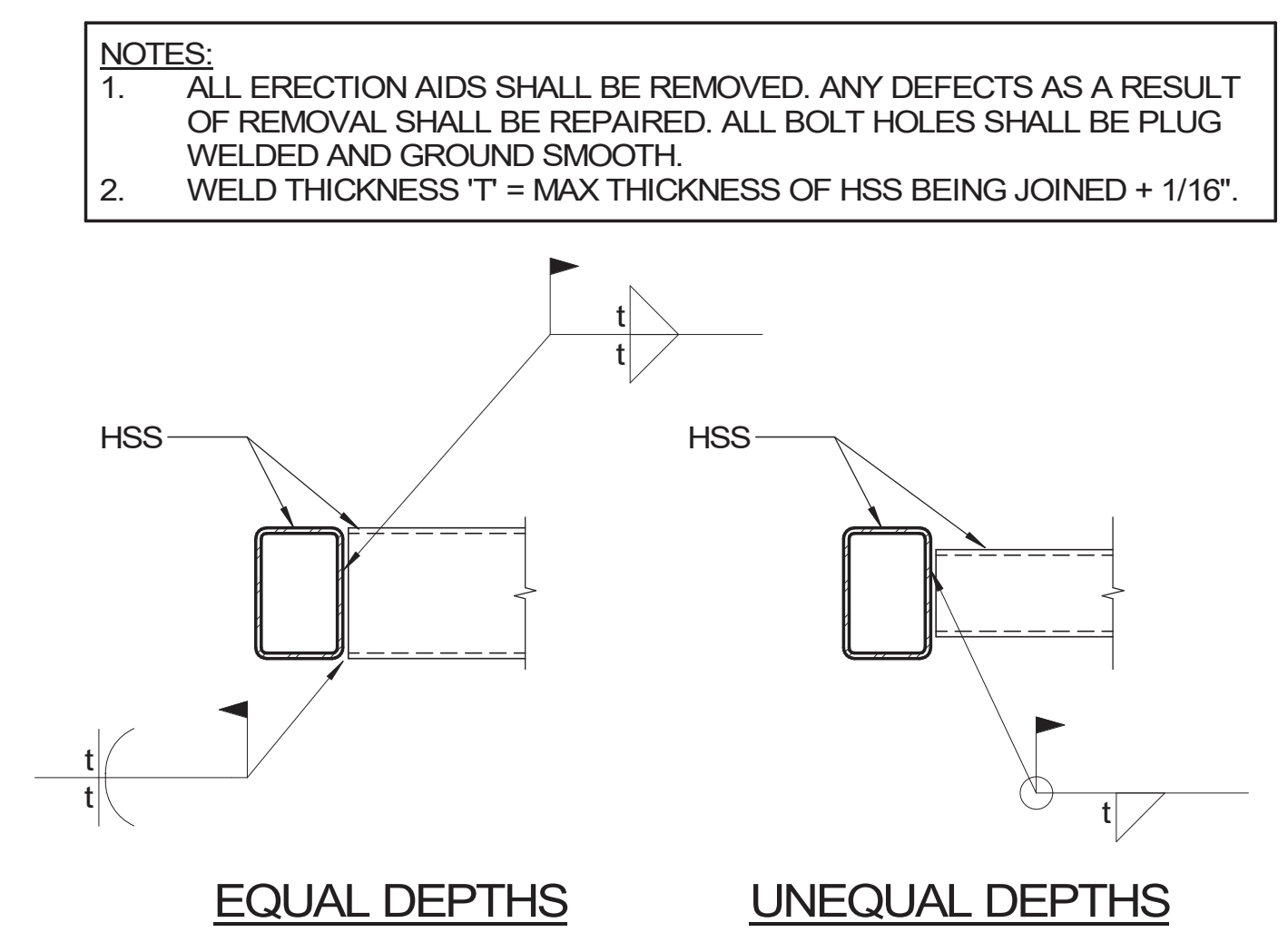
TYPICAL MOVABLE PARTITION SUPPORT DETAILS

NTS



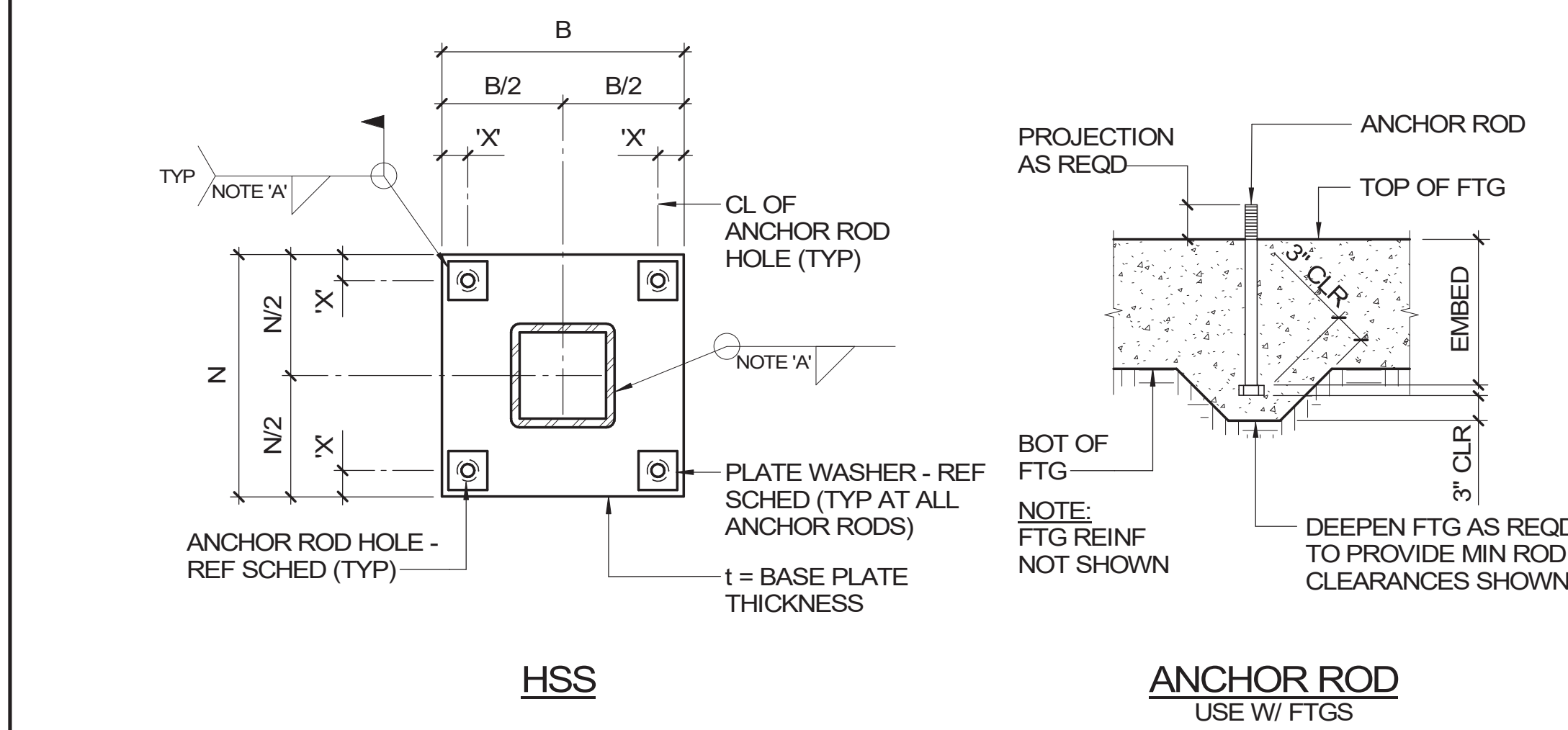
TYPICAL BEAM TO HSS COLUMN CONNECTION DETAILS

NTS



TYPICAL HSS TO HSS CONNECTION DETAILS

NTS

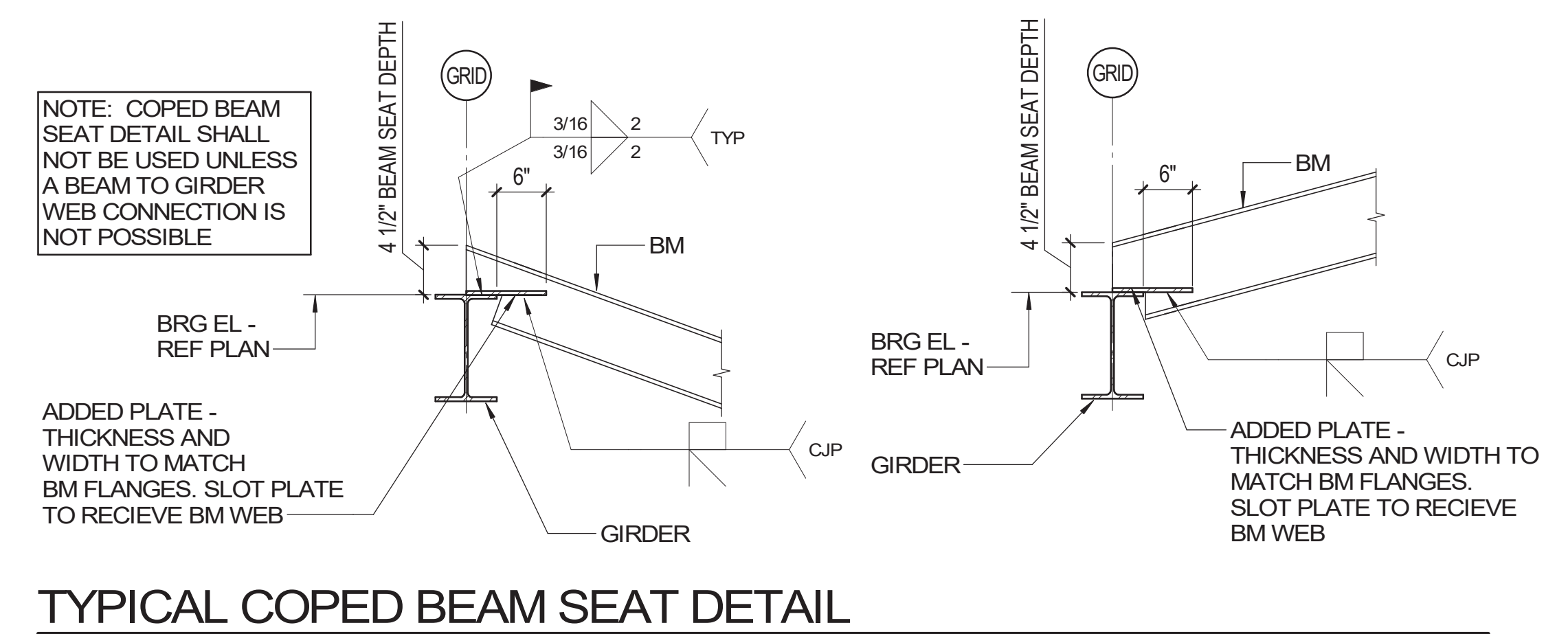


SIZE	COLUMN BASE PLATE SIZE					ANCHOR RODS			REMARKS
	B	t	N	HOLE DIAMETER	X = EDGE DISTANCE	DIAMETER	QUANTITY	EMBEDMENT	
HSS6x6x1/4-HSS6x6x5/16	14"	1"	14"	13/16"	1.5"	3/4"	4	8"	-
HSS6x6x3/8-HSS6x6x5/8	18"	1 1/2"	18"	2 1/16"	2"	1 1/4"	4	12"	-

ANCHOR ROD	SIZE	HOLE DIAMETER	THICKNESS
3/4"Ø	2" SQ	13/16"	1/4"
1 1/4"Ø	3 1/2" SQ	1 5/16"	1/2"

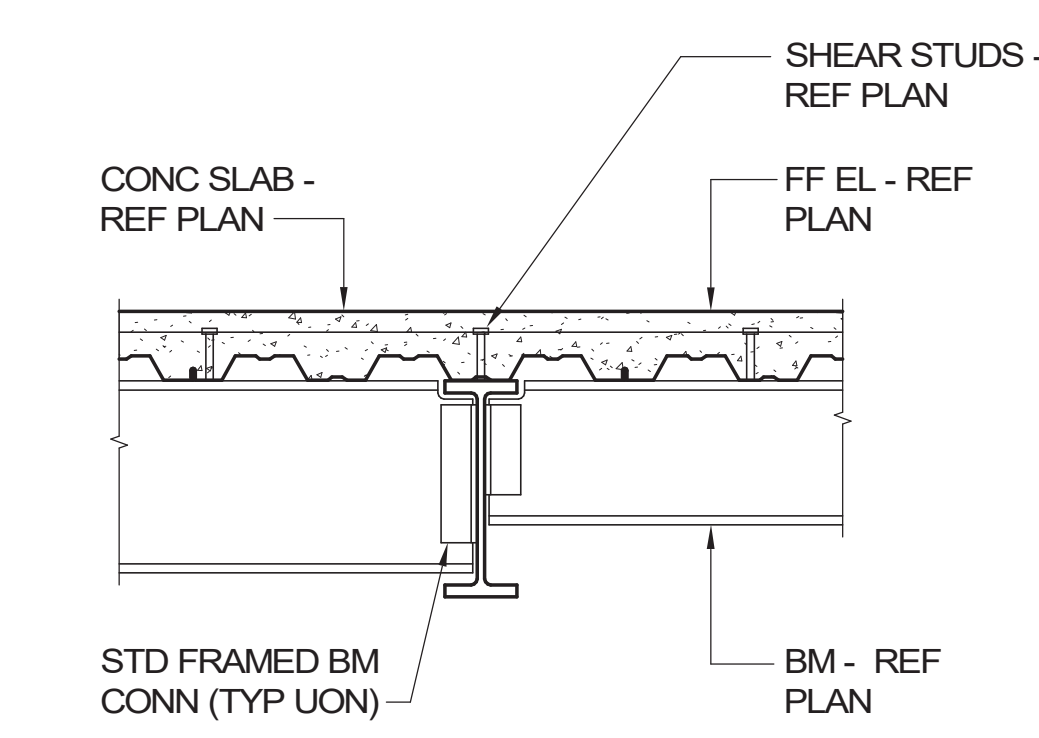
BASE PLATE & ANCHOR ROD DETAILS

NTS



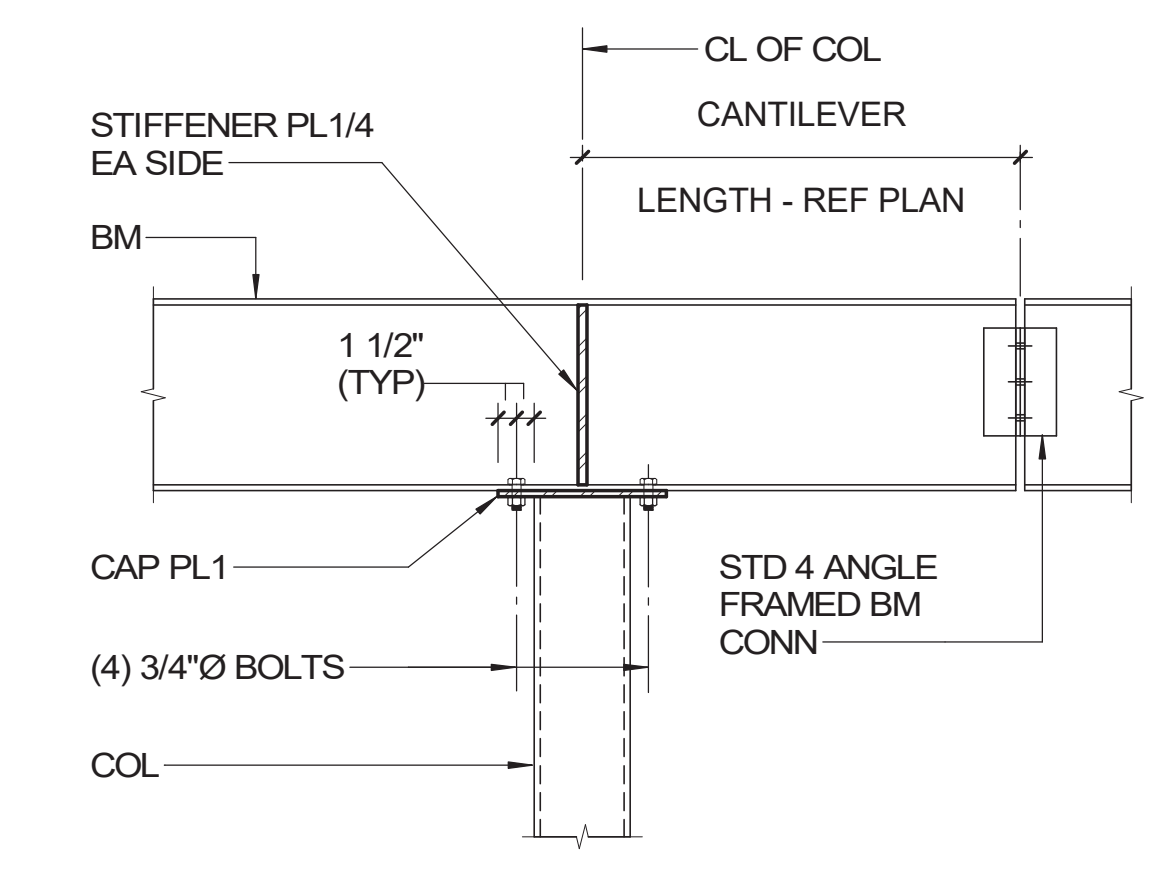
TYPICAL COPED BEAM SEAT DETAIL

NTS



TYPICAL BEAM / BEAM CONNECTION DETAIL

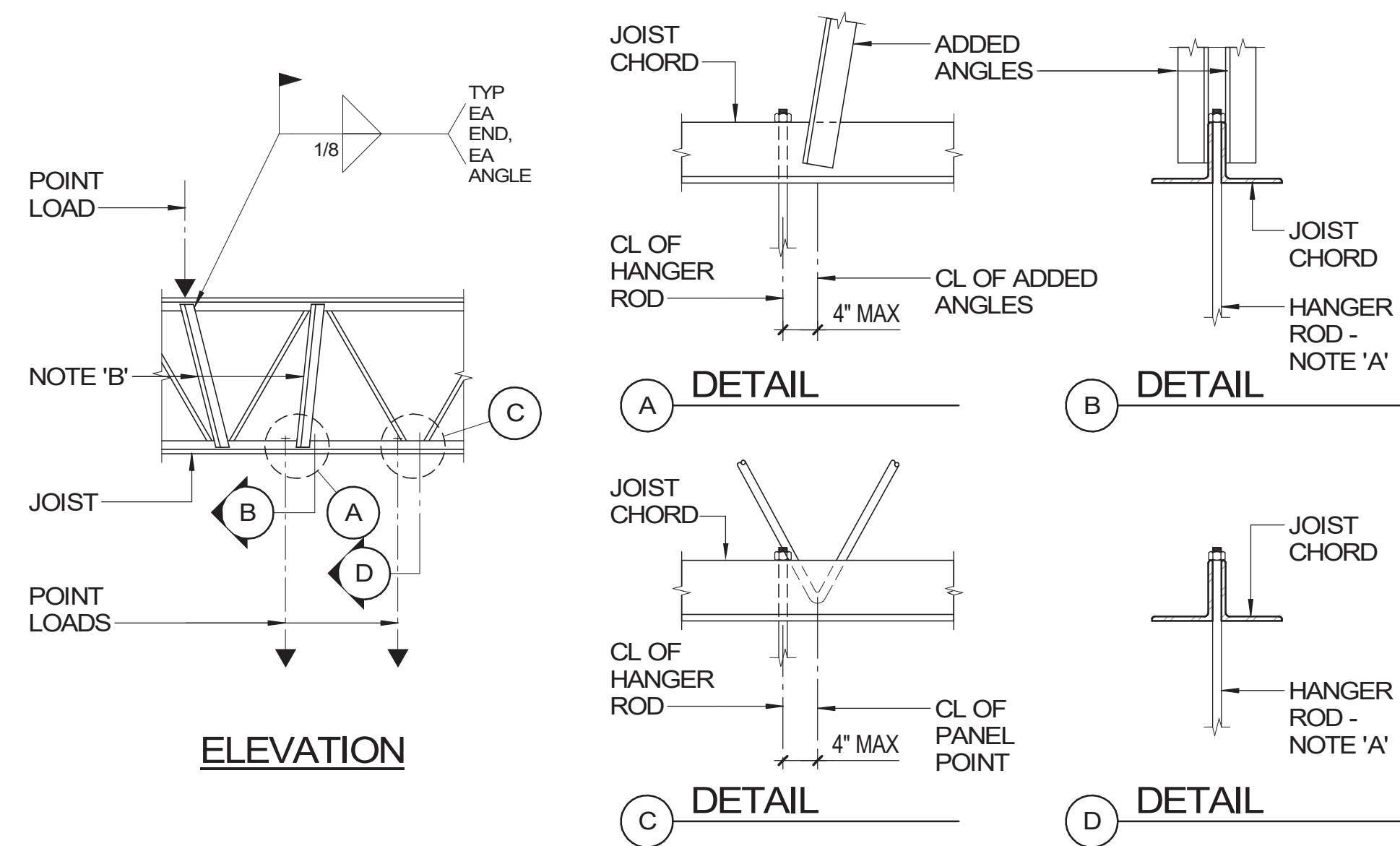
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TYPICAL BEAM OVER COLUMN DETAIL

NTS

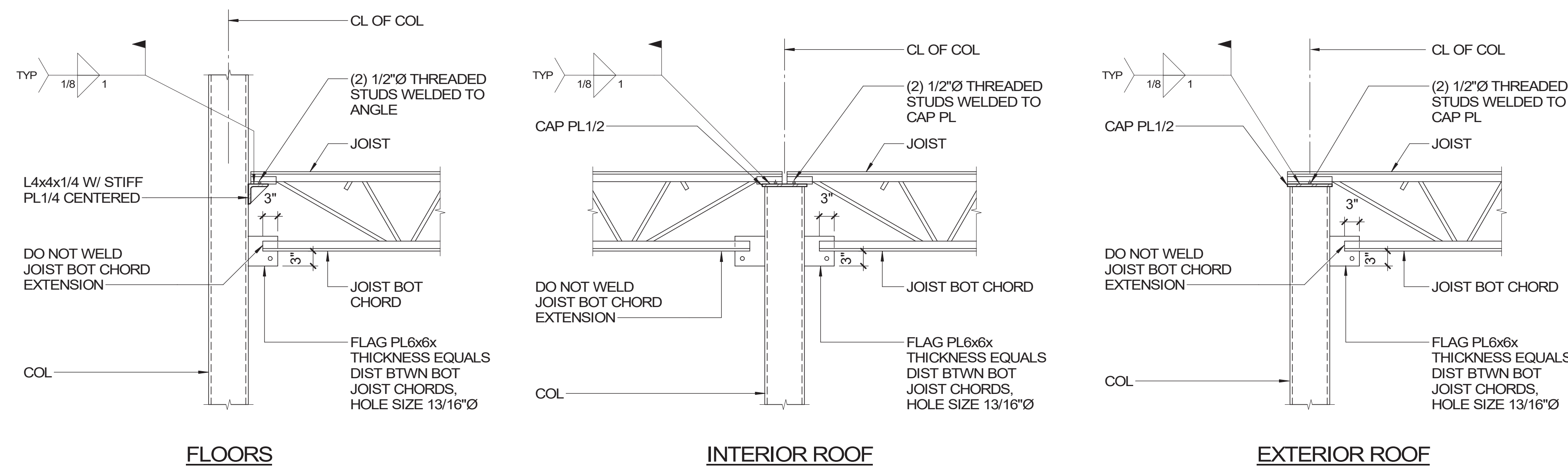
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- NOTES:
- A. POSITION HANGER RODS ON JOIST CENTERLINES BETWEEN CHORD JOIST MEMBERS. DO NOT USE C-CLAMPS TO CHORD ANGLE LEGS FOR LOADS GREATER THAN 50 LBS.
 - B. WHERE CONCENTRATED LOADS EXCEEDING 300 LBS ARE APPLIED TO TOP CHORDS OR HUNG FROM BOTTOM CHORDS BETWEEN PANEL POINTS, ADD (2) L1x1x1/8 TO PANEL POINT AS SHOWN FOR K SERIES JOISTS.
 - C. DETAIL APPLIES TO NEW AND EXISTING JOISTS.

TYPICAL DETAIL AT CONCENTRATED LOADS ON K-SERIES JOISTS

NTS



TYPICAL JOIST ON COLUMN CENTERLINE DETAILS

NTS



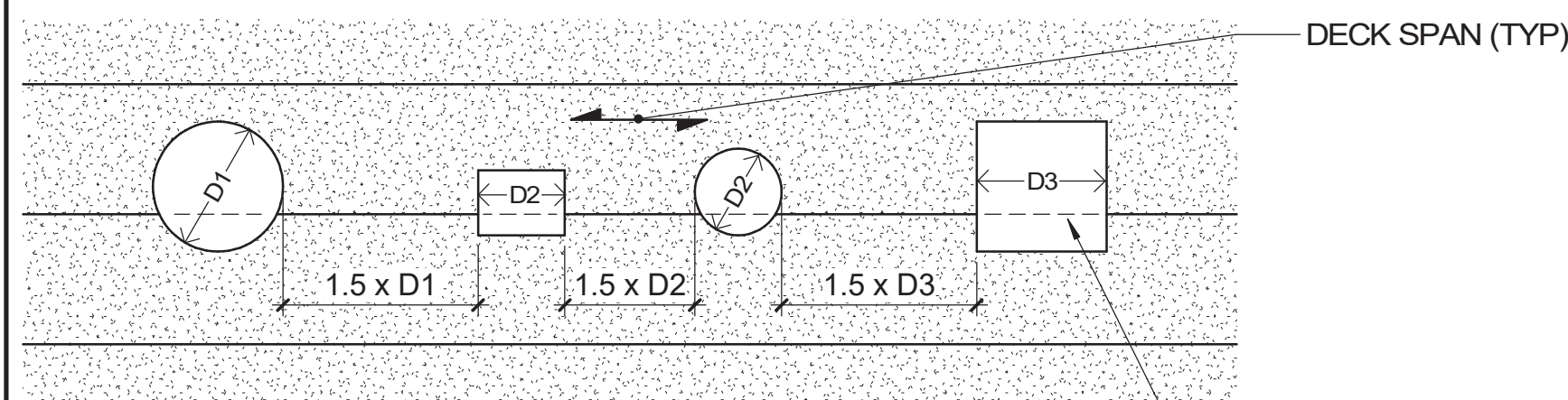
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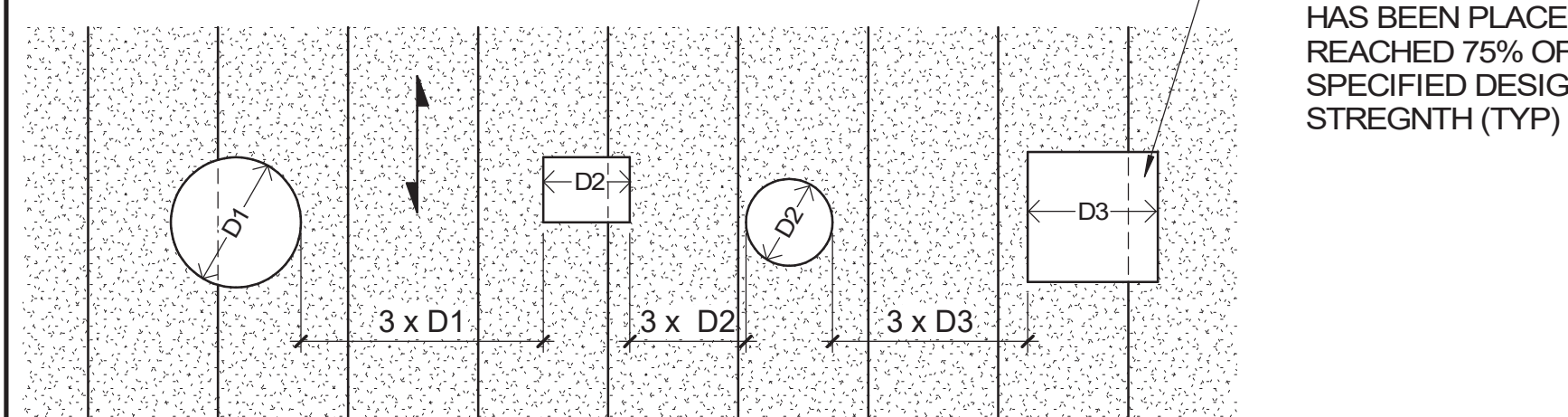
SHEET
**TYPICAL
DETAILS**

NOTES:

- SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF FLOOR PENETRATIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL FRAMING PLANS.
- PENETRATIONS, LESS THAN OR EQUAL TO 6" IN ANY DIMENSION SHALL BE PERMITTED IN THE ELEVATED SLAB ON METAL DECK WITHOUT REINFORCING, PROVIDED THE SPACING BETWEEN PENETRATIONS DOES NOT EXCEED THE FOLLOWING, AS DEPICTED BELOW:
 - WHERE DECK SPAN IS PARALLEL TO THE GROUP OF PENETRATIONS: CLEAR SPACING SHALL NOT BE LESS THAN 1.5 TIMES THE WIDTH / DIAMETER OF THE LARGER ADJACENT PENETRATION OR 4", WHICHEVER IS GREATER.
 - WHERE DECK SPAN IS PERPENDICULAR TO THE GROUP OF PENETRATIONS: CLEAR SPACING SHALL NOT BE LESS THAN 3 TIMES THE WIDTH OF THE LARGER ADJACENT PENETRATION, OR 8", WHICHEVER IS GREATER.
- IF THE SPACING REQUIREMENTS BELOW CANNOT BE MET, THE CONTRACTOR SHALL BE PERMITTED TO REINFORCE THE SLAB PER THE TYPICAL FLOOR SLAB REINFORCING DETAIL AT OPENINGS LARGER THAN 6".
- BLOCKOUTS OR DRILLED CORES ARE PERMITTED, HOWEVER, FLOOR DECK SHALL REMAIN CONTINUOUS AND NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND HAS REACHED 75% OF ITS SPECIFIED DESIGN STRENGTH.



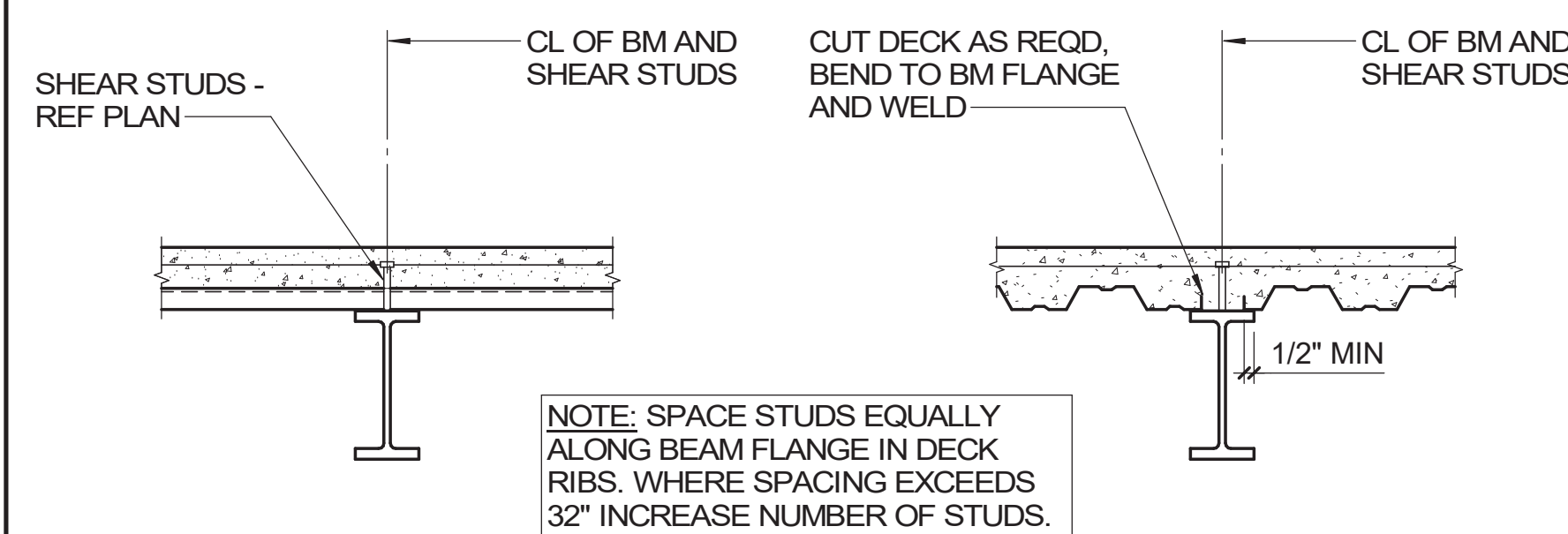
DECK SPAN PARALLEL TO OPENING GROUP



DECK SPAN PERPENDICULAR TO OPENING GROUP

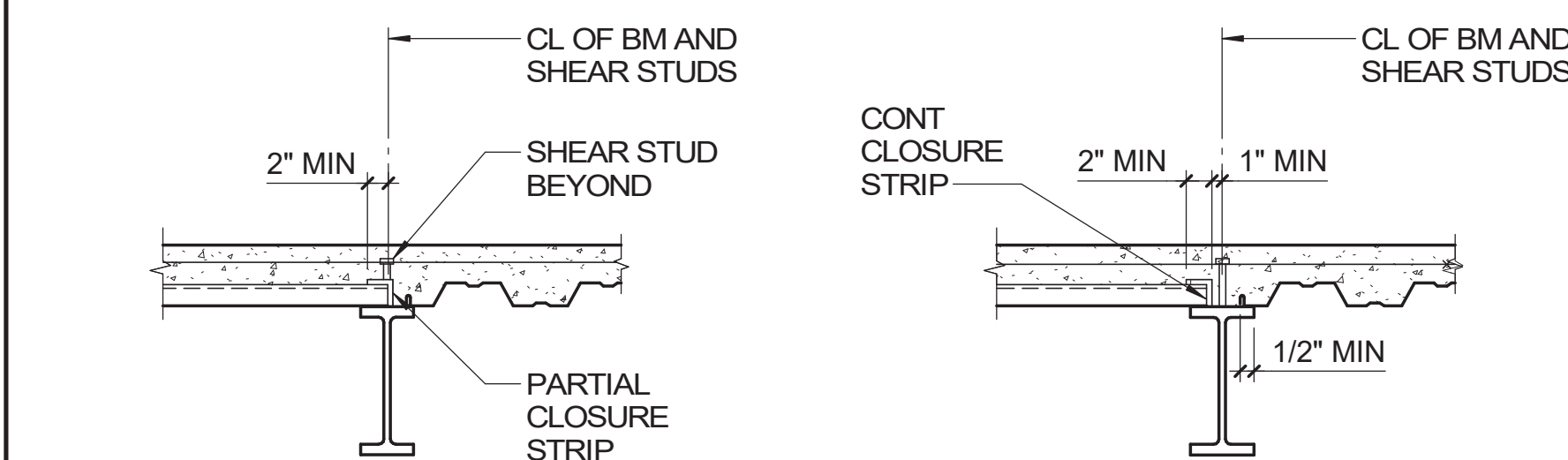
TYPICAL SPACING REQUIREMENTS FOR FLOOR PENETRATIONS 6" WIDE OR LESS

NTS



PERPENDICULAR

PARALLEL - DECK RIBS NOT ON BEAM



FLANGE < 6"

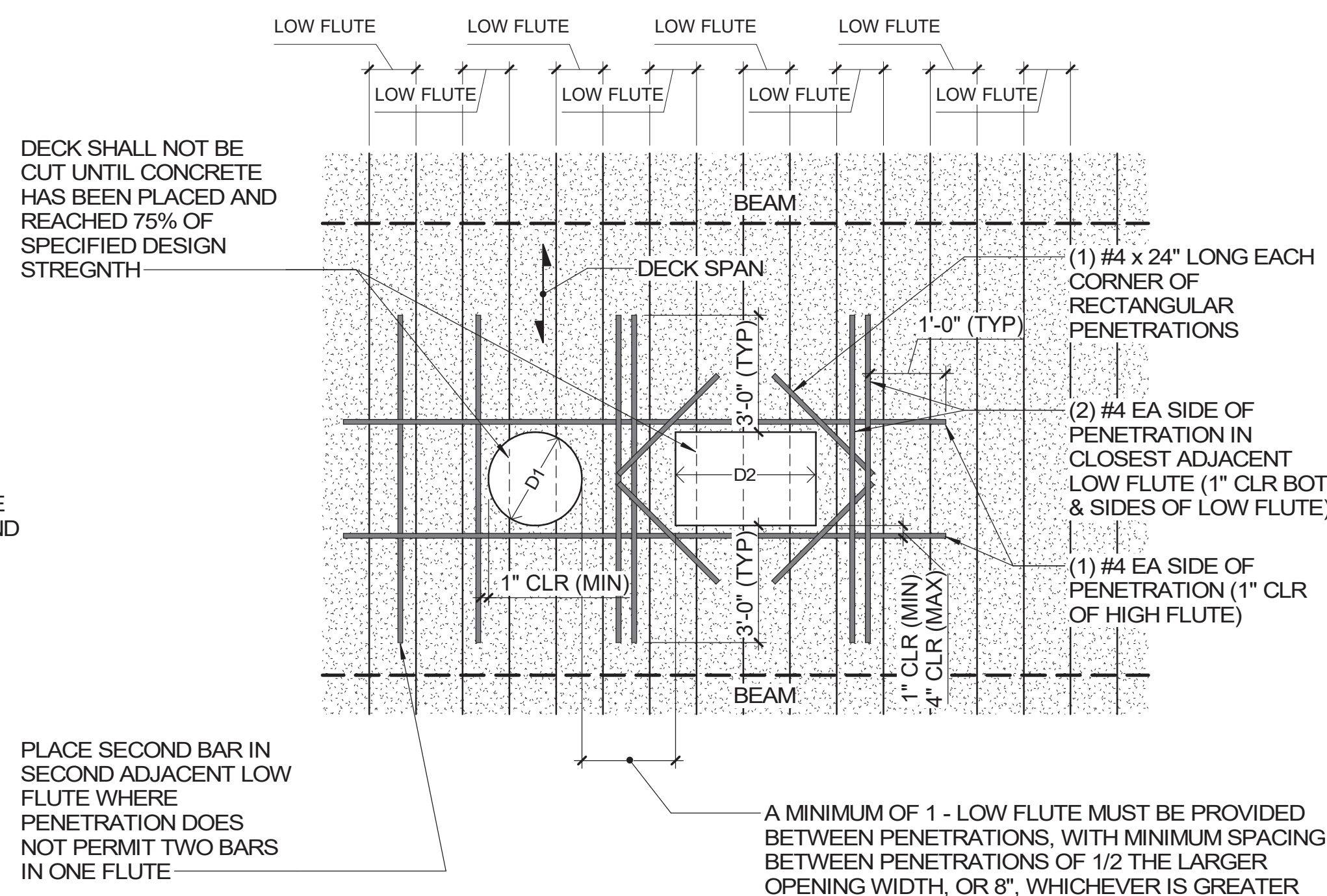
FLANGE ≥ 6"

TYPICAL COMPOSITE SLAB DETAILS

NTS

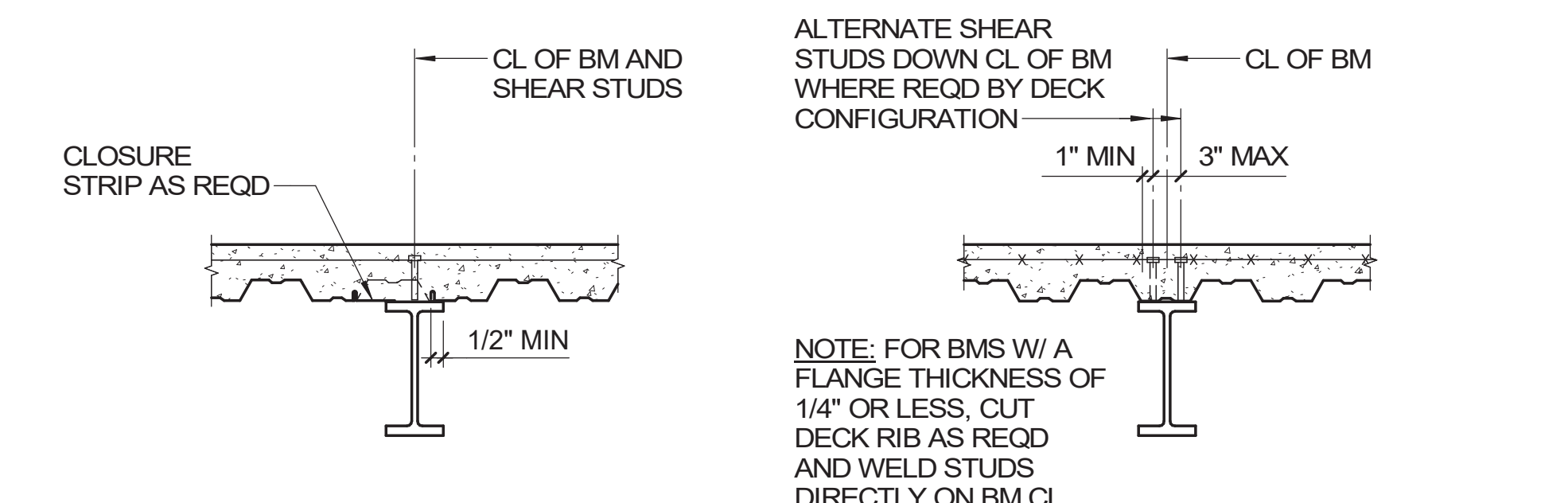
NOTES:

- SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF FLOOR PENETRATIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL FRAMING PLANS.
- PENETRATIONS, GREATER THAN 6", BUT LESS THAN OR EQUAL TO 24" IN ANY DIRECTION SHALL BE PERMITTED IN THE ELEVATED SLAB ON METAL DECK WITHOUT ADDITIONAL STRUCTURAL STEEL FRAMING, PROVIDED THE SLAB IS REINFORCED AS INDICATED BELOW.
- A MINIMUM OF (1) LOW FLUTE MUST BE PROVIDED BETWEEN PENETRATIONS, WITH MINIMUM SPACING BETWEEN PENETRATIONS OF 1/2 THE LARGER OPENING WIDTH, OR 8", WHICHEVER IS GREATER.

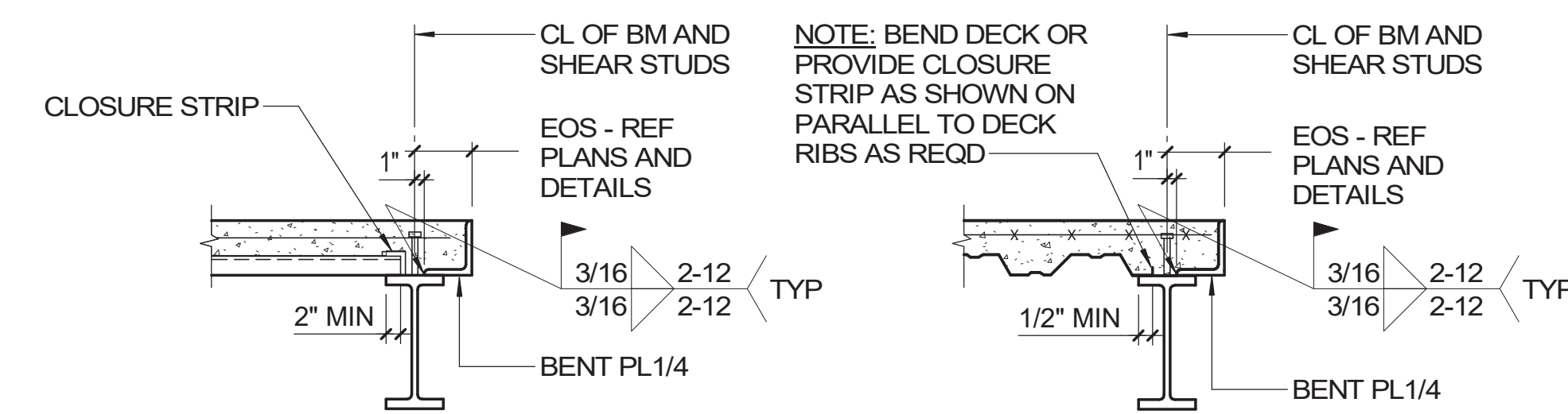


TYPICAL SPACING REQUIREMENTS FOR FLOOR PENETRATIONS 6" OR WIDER

NTS



PARALLEL - DECK RIB ON BEAM

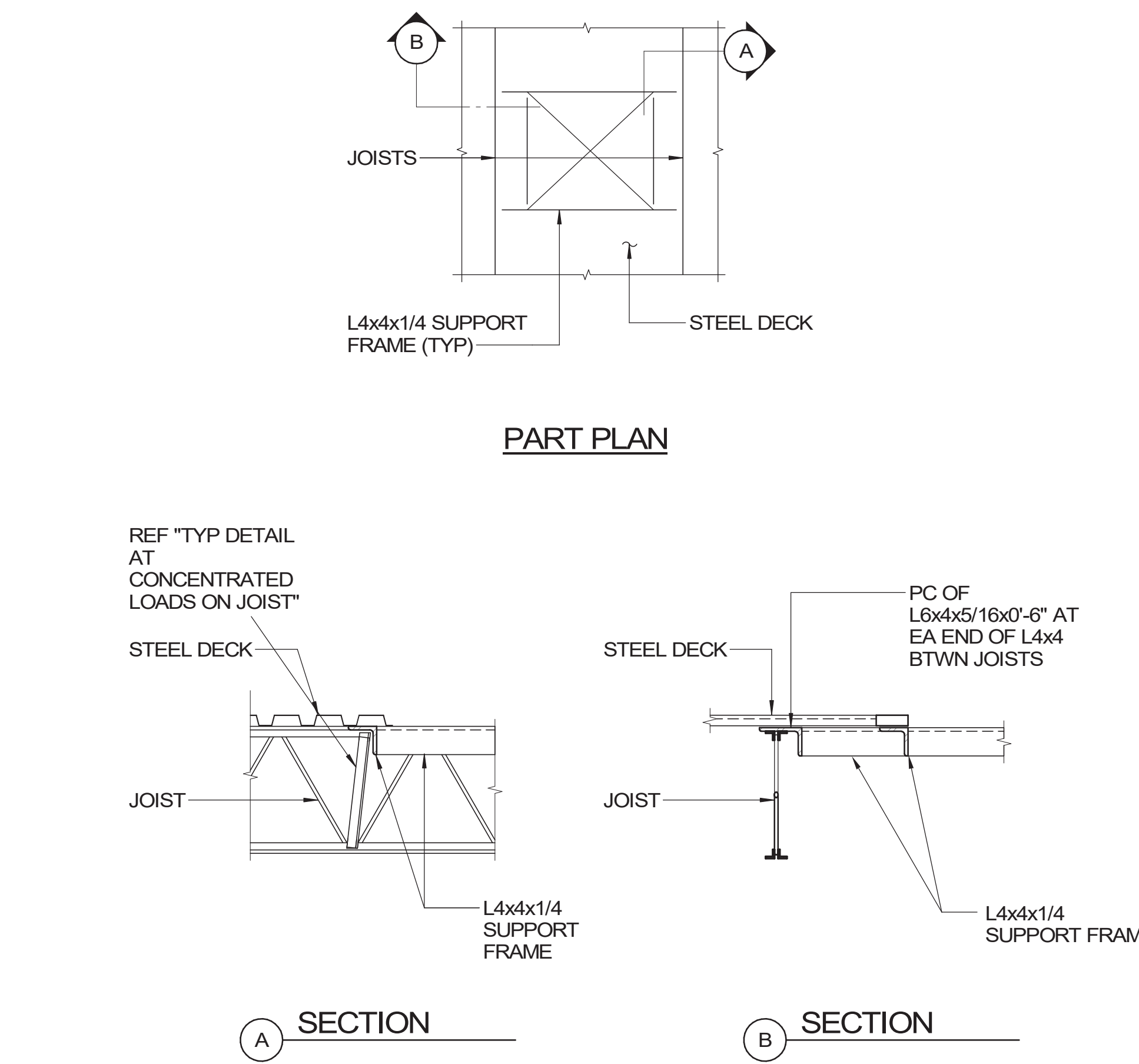


EDGE PERPENDICULAR

EDGE PARALLEL

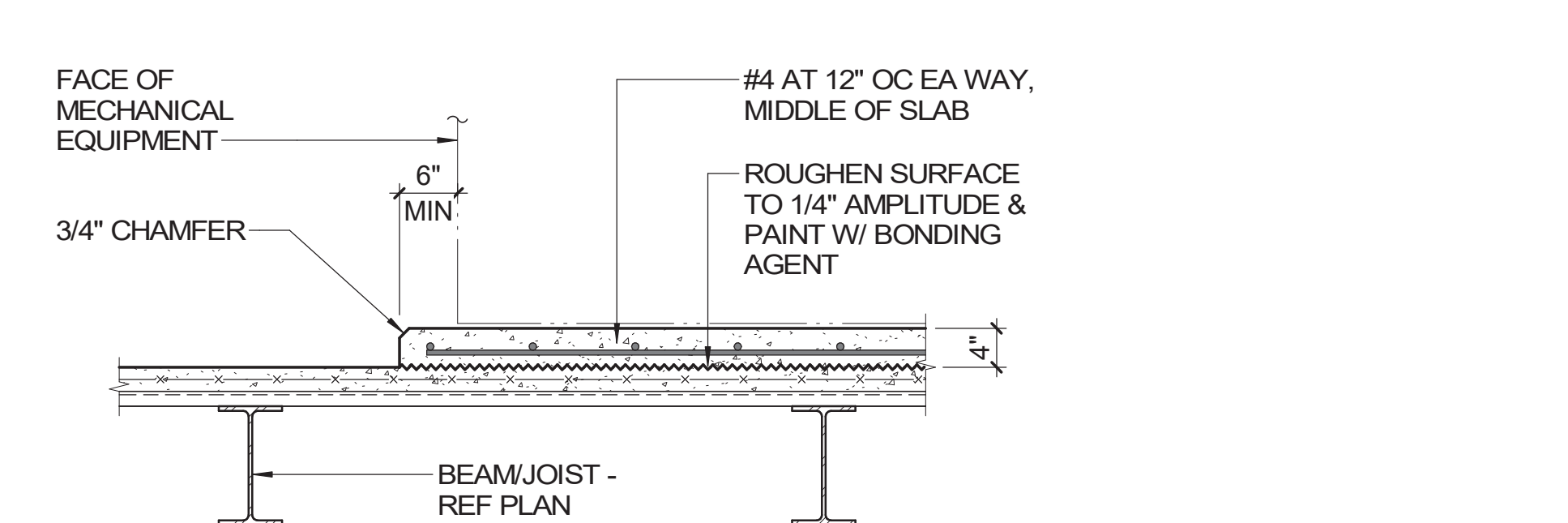
TYPICAL HOUSEKEEPING PAD ON ELEVATED FLOOR DETAIL

NTS



TYPICAL FRAMING AT ROOF OPENING GREATER THAN 6"

NTS



TYPICAL HOUSEKEEPING PAD ON ELEVATED FLOOR DETAIL

NTS

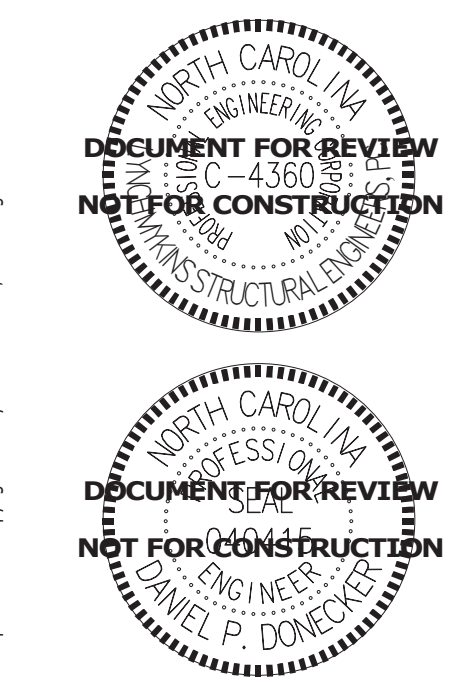


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S505

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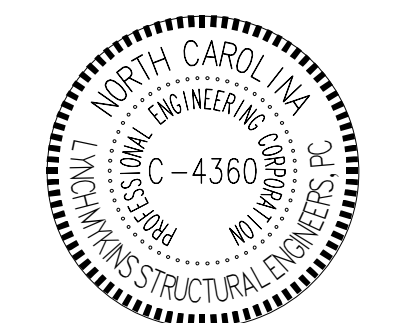


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SPECIAL INSPECTIONS 1

S003

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WELDING OF STRUCTURAL STEEL				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			AISC 360	NCBC
1. INSPECTIONS PRIOR TO WELDING			N5.4	
a. COLLECT & REVIEW WELDING PROCEDURE SPECIFICATION (WPS) AND VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	<input checked="" type="checkbox"/>	C	TBL N5.4-1	
b. CONFIRM WELD MATERIAL TYPE & GRADE	<input checked="" type="checkbox"/>	P	TBL N5.4-1	
c. CONFIRM METHOD OF WELDER IDENTIFICATION	<input checked="" type="checkbox"/>	P	TBL N5.4-1	
d. INSPECTION OF FIT-UP FOR GROOVE & FILLET WELDS INCLUDING ACCESS HOLE CONFIGURATION & FINISH	<input checked="" type="checkbox"/>	P	TBL N5.4-1	
2. INSPECTIONS DURING WELDING			N5.4	
a. VERIFY WELDER QUALIFICATIONS	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
b. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
c. MONITOR ENVIRONMENTAL CONDITIONS	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
d. MONITOR PROPER IMPLEMENTATION OF WPS	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
e. INSPECTION OF WELDING TECHNIQUES INCLUDING NO WELDING OVER CRACKED TACK WELDS	<input checked="" type="checkbox"/>	P	TBL N5.4-2	
3. INSPECTIONS AFTER WELDING			N5.4, N5.5	
a. VERIFY WELDS HAVE BEEN CLEANED	<input checked="" type="checkbox"/>	P	TBL N5.4.3	
b. CONFIRM THE INSTALLED SIZE, LENGTH AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
c. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
d. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
e. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3' OF WELDED DOUBLER PLATES, CONTINUITY PLATES AND STIFFENERS	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
f. BACKING AND WELD TABS REMOVED PER CONTRACT DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
g. OBSERVE AND INSPECT WELD REPAIR ACTIVITIES	<input checked="" type="checkbox"/>	C	TBL N5.4.3	
h. FOR RISK CATEGORY III OR IV STRUCTURES, CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16" AT BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING	<input checked="" type="checkbox"/>	C	N5.5B, N5.5E	
i. FOR RISK CATEGORY II STRUCTURES, CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16" AT BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING	<input checked="" type="checkbox"/>	P	N5.5B, N5.5F	
j. CONDUCT MAGNETIC PARTICLE TESTING (MT) OR LIQUID PENETRANT TESTING (PT) AT THERMALLY CUT SURFACES OF ACCESS HOLES FOR ROLLED SECTION WITH TF > 2" AND BUILT-UP SHAPE WITH TW > 2"	<input checked="" type="checkbox"/>	C	N5.5C	
k. RADIOGRAPHIC OR ULTRASONIC INSPECTION AT JOINTS SUBJECT TO FATIGUE	<input checked="" type="checkbox"/>	C	N5.5D, TBL A-3.1	
l. DOCUMENT ACCEPTANCE / REJECTION OF WELDED JOINTS AND MEMBERS	<input checked="" type="checkbox"/>	C	TBL N5.4-3, N5.5G	

STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			AISC 360	NCBC
1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES				
a. VERIFY FABRICATOR QUALIFICATIONS	<input checked="" type="checkbox"/>	C		1704.2.5.1
b. REVIEW MATERIAL TEST REPORTS & CERTIFICATIONS	<input checked="" type="checkbox"/>	C	N5.2	
c. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION	<input checked="" type="checkbox"/>	C		1704.5
2. INSPECTIONS PRIOR TO HIGH-STRENGTH BOLTING AT PRETENSIONED AND SLIP-CRITICAL JOINTS				
a. COLLECT MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	<input checked="" type="checkbox"/>	C	TBL N5.6-1	
b. FASTENERS ARE MARKED PER ASTM REQUIREMENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
c. ENSURE CORRECT FASTENERS AND BOLTING PROCEDURES ARE SELECTED FOR JOINT DETAILS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
d. VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION WHEN SPECIFIED, COMPLY WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
e. OBSERVE AND DOCUMENT PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONAL FOR FASTENER ASSEMBLIES AND METHODS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
f. VERIFY PROPER STORAGE PROVIDED FOR ALL FASTENER COMPONENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1	
3. INSPECTIONS DURING HIGH-STRENGTH BOLTING AT PRETENSIONED AND SLIP-CRITICAL JOINTS				
a. ENSURE CORRECT FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS, WHEN SPECIFIED, ARE POSITIONED AS REQUIRED	<input checked="" type="checkbox"/>	P	TBL N5.6-2	
b. VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING	<input checked="" type="checkbox"/>	P	TBL N5.6-2	
c. VERIFY FASTENER COMPONENTS NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	<input checked="" type="checkbox"/>	P	TBL N5.6-2	
d. ENSURE FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC, PROGRESSING FROM THE MOST RIGID POINT TOWARDS FREE EDGES	<input checked="" type="checkbox"/>	P	TBL N5.6-2	
4. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS AFTER HIGH-STRENGTH BOLTING IS COMPLETE	<input checked="" type="checkbox"/>	C	TBL N5.6-3	
5. STRUCTURAL DETAILS				
a. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR RODS AND OTHER EMBEDDED ITEMS SUPPORTING STRUCTURAL STEEL	<input checked="" type="checkbox"/>	P	N5.7	
b. INSPECTION OF FABRICATED ASSEMBLIES & ERECTED STEEL FRAMING VERIFYING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P	N5.7	
6. COMPOSITE CONSTRUCTION				
a. VERIFY PLACEMENT & INSTALLATION OF STEEL DECK	<input checked="" type="checkbox"/>	P	TBL N6.1	
b. OBSERVE PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	<input checked="" type="checkbox"/>		TBL N6.1	
c. DOCUMENT ACCEPTANCE OR REJECTION OF COMPOSITE CONSTRUCTION ELEMENTS	<input checked="" type="checkbox"/>	P	TBL N6.1	

COLD-FORMED STEEL FRAMING				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			STANDARD	NCBC
1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES				
a. VERIFY FABRICATOR QUALIFICATIONS	<input checked="" type="checkbox"/>	C		1704.2.5.1
b. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION	<input checked="" type="checkbox"/>	C		1704.5
2. FOR TRUSSES CLEAR SPANNING 60 FEET OR MORE, VERIFY THAT BOTH TEMPORARY AND PERMANENT RESTRAINTS AND BRACES ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	<input checked="" type="checkbox"/>	P		1705.2.4

RETAINING WALLS EXCEEDING 5 FEET ^{A B C D}				
INSPECTION TASK	TASK REQD	FREQ ^A	REFERENCE FOR CRITERIA	
			STANDARD	NCBC
1. FOUNDATION SUPPORT SYSTEM IS ADEQUATE FOR THE INTENDED SITE CONDITIONS	<input checked="" type="checkbox"/>	P		1807.2.5.1
2. VERIFY THAT RETAINING WALL MATERIALS AND INSTALLATIONS ARE IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P		1807.2.5.2
3. VERIFY THAT ACTUAL SOIL CONDITIONS ARE SIMILAR TO THOSE ANTICIPATED BY THE APPROVED ENGINEERED DESIGN	<input checked="" type="checkbox"/>	P		1807.2.5.3
4. EXAMINATION OF BACKFILL MATERIALS FOR COMPLIANCE WITH THE APPROVED SPECIFICATIONS	<input checked="" type="checkbox"/>	P		1807.2.5.4
5. CONFIRM THAT ALL SUBSOIL DRAINAGE PIPING IS UNDAMAGED, DRAINS FREELY TO THE DESIGNATED OUTLET OR STRUCTURE, AND HAS BEEN INSTALLED PER THE APPROVED ENGINEERED DESIGN	<input checked="" type="checkbox"/>	P		1807.2.5.4

- A. ALL RETAINING WALLS EXCEEDING 5 FEET IN HEIGHT REQUIRE SPECIAL INSPECTIONS.
 B. FOR CONCRETE RETAINING WALLS AND FOOTINGS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3 OF THE NORTH CAROLINA BUILDING CODE AND THE APPLICABLE SCHEDULES INCLUDED HEREIN.
 C. FOR MASONRY RETAINING WALLS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.4 OF THE NORTH CAROLINA BUILDING CODE AND THE APPLICABLE SCHEDULES INCLUDED HEREIN.
 D. FOR SOILS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.6 OF THE NORTH CAROLINA BUILDING CODE AND THE APPLICABLE SCHEDULES INCLUDED HEREIN.

STATEMENT OF SPECIAL INSPECTION SERVICES

PROJECT:
LOCATION:
OWNER'S REPRESENTATIVE:
OWNER'S ADDRESS:

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT. THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE FOLLOWING DESIGNERS OF RECORD:

STRUCTURAL	Dan Donecker, PE		
	(Type or print name)	(Signature)	(Date)
ARCHITECTURAL			
	(Type or print name)	(Signature)	(Date)
MECHANICAL			
	(Type or print name)	(Signature)	(Date)
OTHER			
	(Type or print name)	(Signature)	(Date)

THE SPECIAL INSPECTOR MUST KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND MUST FURNISH REPORTS TO THE STATE CONSTRUCTION OFFICE AND THE DESIGNERS OF RECORD. REPORTS MUST INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE STATE CONSTRUCTION OFFICE AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS MUST BE SUBMITTED TO THE STATE CONSTRUCTION OFFICE, OWNER, AND THE DESIGNERS OF RECORD.

INTERIM REPORT FREQUENCY: MONTHLY

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

OWNER'S AUTHORIZATION

(Signature) (Date)

SCHEDULE OF SPECIAL INSPECTION SERVICES^A

THE FOLLOWING COMPRISES THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS.

- | | |
|--|---|
| <input checked="" type="checkbox"/> STRUCTURAL STEEL & HIGH STRENGTH BOLTING | <input type="checkbox"/> HELICAL PILE FOUNDATIONS |
| <input checked="" type="checkbox"/> WELDING OF STRUCTURAL STEEL | <input type="checkbox"/> RAMMED AGGREGATE PIERS & STONE COLUMNS |
| <input checked="" type="checkbox"/> COLD-FORMED STEEL DECK | <input type="checkbox"/> SPRAYED FIRE-RESISTANT MATERIAL |
| <input checked="" type="checkbox"/> OPEN-WEB STEEL JOISTS & JOIST GIRDERS | <input type="checkbox"/> MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS |
| <input type="checkbox"/> COLD-FORMED STEEL FRAMING | <input type="checkbox"/> EXTERIOR INSULATION & FINISH SYSTEM |
| <input checked="" type="checkbox"/> CONCRETE CONSTRUCTION | <input type="checkbox"/> FIRE-RESISTANT PENETRATIONS & JOINTS |
| <input checked="" type="checkbox"/> MASONRY CONSTRUCTION ^B | <input checked="" type="checkbox"/> SMOKE CONTROL |
| <input type="checkbox"/> WOOD CONSTRUCTION | <input checked="" type="checkbox"/> RETAINING WALL & SYSTEMS > 5 FEET |
| <input checked="" type="checkbox"/> SOILS | <input checked="" type="checkbox"/> SPECIAL INSPECTIONS FOR WIND RESISTANCE |
| <input type="checkbox"/> DRIVEN DEEP FOUNDATIONS | <input type="checkbox"/> SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE |
| <input type="checkbox"/> CAST-IN-PLACE DEEP FOUNDATIONS | |

- A. THE INSPECTION FREQUENCY INDICATED ON THE FOLLOWING INSPECTION TABLES ARE "C" CONTINUOUS, "P" PERIODIC, & "O" RANDOM ON A DAILY BASIS.
 B. LEVEL A IS THE MINIMUM INSPECTION PROGRAM FOR EMPIRICALLY / PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY I, II OR III STRUCTURES. LEVEL B IS THE MINIMUM INSPECTION PROGRAM FOR EMPIRICALLY / PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY IV STRUCTURES AND ENGINEERED MASONRY IN RISK CATEGORY I, II OR III STRUCTURES. LEVEL C IS THE MINIMUM INSPECTION PROGRAM FOR ENGINEERED MASONRY IN RISK CATEGORY IV STRUCTURES. ENGINEERED MASONRY STRUCTURES ARE THOSE DESIGNED IN ACCORDANCE WITH PORTIONS OF THE TMS 402-13 / ACI 530-13/ASCE 5-13 OTHER THAN PART 4 OR APPENDIX A.

INSPECTION AGENTS	FIRM NAME & POINT OF CONTACT	ADDRESS / PHONE / E-MAIL
1. SPECIAL INSPECTOR (SI-1)		
2. TESTING AGENCY (TA-1)		
3. TESTING AGENCY (TA-2)		
4. GEOTECHNICAL ENGINEER (GE-1)		
5. OTHER (O-1)		

NOTE: THE INSPECTION AND TESTING AGENT(S) MUST BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL OF RECORD ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE STATE CONSTRUCTION OFFICE, PRIOR TO COMMENCING WORK.

- SEISMIC DESIGN CATEGORY: A B C D
 BASIC WIND SPEED (V_{ASD}): 90-109 MPH 110-119 MPH >120 MPH
 WIND EXPOSURE CATEGORY: B C D

MASONRY - LEVEL A					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			TMS 402 _A	TMS 602 _A	
1. PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION	<input checked="" type="checkbox"/>	P	TBL 3.1.1	ART. 1.5	

A. REFERENCES TO "TMS402" IN THIS TABLE ARE TO THE TMS402/ACI530/ASCE5-13. REFERENCES TO "TMS602" ARE TO TMS602/ACI530.1/ASCE5-13.

MASONRY - LEVEL B					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			TMS 402 _A	TMS 602 _A	
1. TEST & VERIFY SLUMP FLOW & VISUAL STABILITY INDEX AS DELIVERED TO SITE FOR SELF-CONSOLIDATING GROUT	<input checked="" type="checkbox"/>	C	TBL 3.1.2	ART. 1.5B.1.B.3	
2. TEST & VERIFY F'M & F'AC PRIORITY TO CONSTRUCTION	<input checked="" type="checkbox"/>	C	TBL 3.1.2	ART. 1.4B	
3. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	<input checked="" type="checkbox"/>	P	TBL 3.1.2	ART. 1.5	
4. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR	<input checked="" type="checkbox"/>	P		ART. 2.1, 2.6A	
b. CONSTRUCTION OF MORTAR JOINTS	<input checked="" type="checkbox"/>	P		ART. 3.3B	
c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	<input checked="" type="checkbox"/>	P		ART. 2.4B, 2.4H	
d. LOCATION OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES	<input checked="" type="checkbox"/>	P		ART. 3.4, 3.6A	
e. PRESTRESSING TECHNIQUE	<input checked="" type="checkbox"/>	P		ART. 3.6B	
f. TEST & VERIFY F'M & F'AC PRIORITY TO CONSTRUCTION	<input checked="" type="checkbox"/>	C/P _A		ART. 2.1C	
5. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING COMPLY:	<input checked="" type="checkbox"/>				
a. GROUT SPACE IS CLEAN, AND CLEANOUTS PROVIDED WHEN REQUIRED	<input checked="" type="checkbox"/>	P		ART. 3.2D, 3.2F	
b. GRADE, TYPE & SIZE OF REINFORCEMENT & ANCHOR BOLTS, & PRESTRESSING TENDONS & ANCHORAGE	<input checked="" type="checkbox"/>	P	SEC 6.1	ART. 2.4, 3.4	
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGE	<input checked="" type="checkbox"/>	P	SEC 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2E, 3.4, 3.6A	
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	<input checked="" type="checkbox"/>	P		ART. 2.6B, 2.4G.1.B	
e. CONSTRUCTION AND SIZE OF MORTAR JOINTS	<input checked="" type="checkbox"/>	P		ART. 3.3B	
6. VERIFY DURING CONSTRUCTION:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	<input checked="" type="checkbox"/>	P		ART. 3.3F	
b. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	<input checked="" type="checkbox"/>	P	SEC 1.2.1(E), 6.1.4.3, 6.2.1		
c. WELDING OF REINFORCEMENT	<input checked="" type="checkbox"/>	C	SEC 8.1.6.7.2, 9.3.3.4(C), 11.3.3.4(B)		
d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE < 40°F) OR HOT WEATHER (TEMPERATURE > 90°F)	<input checked="" type="checkbox"/>	P		ART. 1.8C, 1.8D	
e. APPLICATION & MEASUREMENT OF PRESTRESS FORCE	<input checked="" type="checkbox"/>	C		ART. 3.6B	
f. VERIFY PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	<input checked="" type="checkbox"/>	C		ART. 3.5, 3.6C	
g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	<input checked="" type="checkbox"/>	C/P _A		ART. 3.3B.9, 3.3F.1.B	
7. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND OR PRISMS	<input checked="" type="checkbox"/>	P		ART. 1.4.B.2.A.3, 1.4.B.2.B.3, 1.4.B.2.C.3, 1.4.B.3, 1.4.B.4	

A. REFERENCES TO "TMS402" IN THIS TABLE ARE TO THE TMS402/ACI530/ASCE5-13. REFERENCES TO "TMS602" ARE TO TMS602/ACI530.1/ASCE5-13.
 B. AAC MASONRY MUST BE CONTINUOUSLY INSPECTED FOR THE FIRST 5000-SQUARE FEET AND PERIODICALLY INSPECTED AFTERWARDS.

SOILS					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			STANDARD	NCBC	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	<input checked="" type="checkbox"/>	P		1705.6	
2. VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND HAVE REACHED THE CORRECT SOIL MATERIAL	<input checked="" type="checkbox"/>	P		1705.6	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	<input checked="" type="checkbox"/>	P		1705.6	
4. VERIFY THAT MATERIALS USED, DENSITIES, LIFT THICKNESS AND PROCEDURES USED DURING PLACEMENT AND COMPACTION OF COMPACTED FILL ARE IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C		1705.6	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, VERIFY THAT THE SUBGRADE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P		1705.6	

CONCRETE CONSTRUCTION					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			STANDARD _A	NCBC	
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	<input checked="" type="checkbox"/>	P	ACI CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4	
2. REINFORCING BAR WELDING:					
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 AND COLLECT REPORTS	<input checked="" type="checkbox"/>	P	ACI 26.6.4	1704.5	
b. INSPECT SINGLE-PASS FILLET WELDS ≤ 5/16"	<input checked="" type="checkbox"/>	P	ACI 26.6.4		
c. INSPECT ALL WELDS OTHER THAN SINGLE-PASS FILLET WELDS ≤ 5/16"	<input checked="" type="checkbox"/>	C	ACI 26.6.4		
3. CONCRETE ANCHORS:					
a. INSPECT ANCHORS CAST IN CONCRETE	<input checked="" type="checkbox"/>	P	ACI 17.8.2		
b. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION LOADS	<input checked="" type="checkbox"/>	C	ACI 17.8.2.4		
c. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH ORIENTATIONS DIFFERENT FROM ITEM 3.B	<input checked="" type="checkbox"/>	P	ACI 17.8.2		
d. INSPECT MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE	<input checked="" type="checkbox"/>	P	ACI 17.8.2		
4. COLLECT MIX DESIGNS AND VERIFY THE CORRECT MIX USED DURING INSTALLATION	<input checked="" type="checkbox"/>	P	ACI CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3	
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	<input checked="" type="checkbox"/>	C	ASTM C172, ASTM C31, ACI 26.4, 26.12	1908.10	
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	<input checked="" type="checkbox"/>	C	ACI 26.5	1908.6, 1908.7, 1908.8	
7. COLLECT REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE WHEN PRECONSTRUCTION TESTS ARE REQUIRED BY NCBC SECTION 1908.4	<input checked="" type="checkbox"/>	C		1704.5, 1908.5	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	<input checked="" type="checkbox"/>	P	ACI 26.5.3-26.5.5	1908.9	
9. INSPECTIONS FOR PRESTRESSED CONCRETE					
a. OBSERVE APPLICATION OF PRESTRESSING FORCE	<input checked="" type="checkbox"/>	C	ACI 26.10		
b. INSPECT GROUTING OF BONDED PRESTRESSING TENDONS	<input checked="" type="checkbox"/>	C	ACI 26.10		
10. VERIFY CONCRETE STRENGTH PRIOR TO STRESSING OF PT TENDONS AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM PT & MILD BEAMS AND STRUCTURAL SLABS	<input checked="" type="checkbox"/>	P	ACI 26.11.2		
11. INSPECT ERECTION OF PRECAST MEMBERS	<input checked="" type="checkbox"/>	P	ACI 26.8		
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	<input checked="" type="checkbox"/>	P	ACI 26.11.1.2(B)		
13. COLLECT MILL TEST REPORTS FOR ASTM A615 REBAR USED BY SFRS SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS	<input checked="" type="checkbox"/>	C	ACI 20.2.2.5	1704.5	

A. REFERENCES TO "ACI" IN THIS TABLE ARE TO THE ACI 318-14.

FIRE-RESISTANT PENETRATIONS AND JOINTS _A					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			STANDARD	NCBC	
1. INSPECT THROUGH-PENETRATION FIRESTOP SYSTEMS AT FIRE WALLS, FIRE BARRIERS, SMOKE BARRIERS AND FIRE PARTITION WALLS IN ACCORDANCE WITH ASTM E2174	<input checked="" type="checkbox"/>	P		1705.17.1, 714.3.1.2	
2. INSPECT PENETRATION FIRESTOP SYSTEMS AT PENETRATIONS THROUGH MEMBRANES THAT ARE PART OF A HORIZONTAL ASSEMBLY IN ACCORDANCE WITH ASTM E2174	<input checked="" type="checkbox"/>	P		1705.17.1, 714.4.2	
3. INSPECT FIRE-RESISTANT JOINT SYSTEMS IN ACCORDANCE WITH ASTM 2393	<input checked="" type="checkbox"/>	P		1705.17.2, 715.3, 715.4	

A. THE INSPECTION OF FIRE-RESISTANT PENETRATIONS AND JOINTS APPLIES ONLY TO HIGH-RISE BUILDINGS OR BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV.

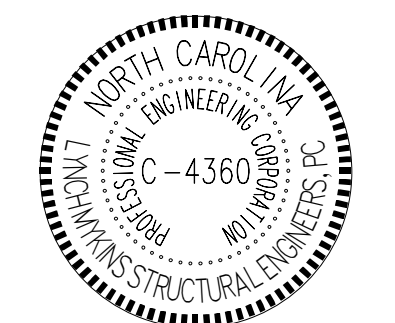


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FARM FOOD & FAMILY EDU CENTER
 RANDOLPH COUNTY
 1800 US HWY 64 E, ASHEBORO, NC 27203
 22-004



NO.	REVISION	DATE
1	OWNER REVIEW	6/16/23

JOB NUMBER
22-004
 DATE ISSUED
05/25/2023
 PROJECT STATUS
PERMIT SET

SHEET
SPECIAL INSPECTIONS 2

S004

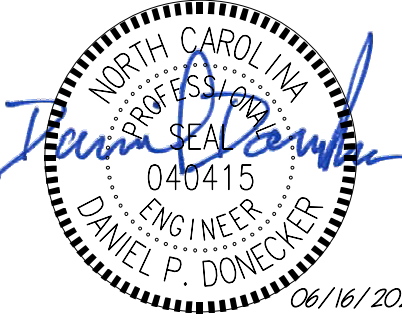
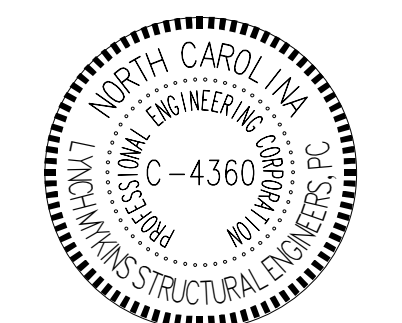


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22-004



NO.	REVISION	DATE
1	OWNER REVIEW	6/16/23

JOB NUMBER
22-004
DATE ISSUED
05/25/2023
PROJECT STATUS
PERMIT SET

SHEET
SPECIAL INSPECTIONS 1

S003

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WELDING OF STRUCTURAL STEEL					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			AISC 360	NCBC	
1. INSPECTIONS PRIOR TO WELDING			N5.4		
a. COLLECT & REVIEW WELDING PROCEDURE SPECIFICATION (WPS) AND VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	<input checked="" type="checkbox"/>	C	TBL N5.4-1		
b. CONFIRM WELD MATERIAL TYPE & GRADE	<input checked="" type="checkbox"/>	P	TBL N5.4-1		
c. CONFIRM METHOD OF WELDER IDENTIFICATION	<input checked="" type="checkbox"/>	P	TBL N5.4-1		
d. INSPECTION OF FIT-UP FOR GROOVE & FILLET WELDS INCLUDING ACCESS HOLE CONFIGURATION & FINISH	<input checked="" type="checkbox"/>	P	TBL N5.4-1		
2. INSPECTIONS DURING WELDING			N5.4		
a. VERIFY WELDER QUALIFICATIONS	<input checked="" type="checkbox"/>	P	TBL N5.4-2		
b. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES	<input checked="" type="checkbox"/>	P	TBL N5.4-2		
c. MONITOR ENVIRONMENTAL CONDITIONS	<input checked="" type="checkbox"/>	P	TBL N5.4-2		
d. MONITOR PROPER IMPLEMENTATION OF WPS	<input checked="" type="checkbox"/>	P	TBL N5.4-2		
e. INSPECTION OF WELDING TECHNIQUES INCLUDING NO WELDING OVER CRACKED TACK WELDS	<input checked="" type="checkbox"/>	P	TBL N5.4-2		
3. INSPECTIONS AFTER WELDING			N5.4, N5.5		
a. VERIFY WELDS HAVE BEEN CLEANED	<input checked="" type="checkbox"/>	P	TBL N5.4.3		
b. CONFIRM THE INSTALLED SIZE, LENGTH AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL N5.4.3		
c. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA	<input checked="" type="checkbox"/>	C	TBL N5.4.3		
d. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1	<input checked="" type="checkbox"/>	C	TBL N5.4.3		
e. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUITY PLATES AND STIFFENERS	<input checked="" type="checkbox"/>	C	TBL N5.4.3		
f. BACKING AND WELD TABS REMOVED PER CONTRACT DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL N5.4.3		
g. OBSERVE AND INSPECT WELD REPAIR ACTIVITIES	<input checked="" type="checkbox"/>	C	TBL N5.4.3		
h. FOR RISK CATEGORY III OR IV STRUCTURES, CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16" AT BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING	<input checked="" type="checkbox"/>	C	N5.5B, N5.5E		
i. FOR RISK CATEGORY II STRUCTURES, CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16" AT BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING	<input checked="" type="checkbox"/>	P	N5.5 B, N5.5F		
j. CONDUCT MAGNETIC PARTICLE TESTING (MT) OR LIQUID PENETRANT TESTING (PT) AT THERMALLY CUT SURFACES OF ACCESS HOLES FOR ROLLED SECTION WITH TF > 2" AND BUILT-UP SHAPE WITH TW > 2"	<input checked="" type="checkbox"/>	C	N5.5C		
k. RADIOGRAPHIC OR ULTRASONIC INSPECTION AT JOINTS SUBJECT TO FATIGUE	<input checked="" type="checkbox"/>	C	N5.5D, TBL A-3.1		
l. DOCUMENT ACCEPTANCE / REJECTION OF WELDED JOINTS AND MEMBERS	<input checked="" type="checkbox"/>	C	TBL N5.4-3, N5.5G		

COLD-FORMED STEEL FRAMING					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			STANDARD	NCBC	
1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES					
a. VERIFY FABRICATOR QUALIFICATIONS	<input checked="" type="checkbox"/>	C	1704.2.5.1		
b. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION	<input checked="" type="checkbox"/>	C	1704.5		
2. FOR TRUSSES CLEAR SPANNING 60 FEET OR MORE, VERIFY THAT BOTH TEMPORARY AND PERMANENT RESTRAINTS AND BRACES ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	<input checked="" type="checkbox"/>	P	1705.2.4		

STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			AISC 360	NCBC	
1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES					
a. VERIFY FABRICATOR QUALIFICATIONS	<input checked="" type="checkbox"/>	C	1704.2.5.1		
b. REVIEW MATERIAL TEST REPORTS & CERTIFICATIONS	<input checked="" type="checkbox"/>	C	N5.2		
c. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF FABRICATION	<input checked="" type="checkbox"/>	C	1704.5		
2. INSPECTIONS PRIOR TO HIGH-STRENGTH BOLTING AT PRETENSIONED AND SLIP-CRITICAL JOINTS					
a. COLLECT MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	<input checked="" type="checkbox"/>	C	TBL N5.6-1		
b. FASTENERS ARE MARKED PER ASTM REQUIREMENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1		
c. ENSURE CORRECT FASTENERS AND BOLTING PROCEDURES ARE SELECTED FOR JOINT DETAILS	<input checked="" type="checkbox"/>	P	TBL N5.6-1		
d. VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION WHEN SPECIFIED, COMPLY WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1		
e. OBSERVE AND DOCUMENT PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONAL FOR FASTENER ASSEMBLIES AND METHODS	<input checked="" type="checkbox"/>	P	TBL N5.6-1		
f. VERIFY PROPER STORAGE PROVIDED FOR ALL FASTENER COMPONENTS	<input checked="" type="checkbox"/>	P	TBL N5.6-1		
3. INSPECTIONS DURING HIGH-STRENGTH BOLTING AT PRETENSIONED AND SLIP-CRITICAL JOINTS					
a. ENSURE CORRECT FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS, WHEN SPECIFIED, ARE POSITIONED AS REQUIRED	<input checked="" type="checkbox"/>	P	TBL N5.6-2		
b. VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING	<input checked="" type="checkbox"/>	P	TBL N5.6-2		
c. VERIFY FASTENER COMPONENTS NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	<input checked="" type="checkbox"/>	P	TBL N5.6-2		
d. ENSURE FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC, PROGRESSING FROM THE MOST RIGID POINT TOWARDS FREE EDGES	<input checked="" type="checkbox"/>	P	TBL N5.6-2		
4. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS AFTER HIGH-STRENGTH BOLTING IS COMPLETE	<input checked="" type="checkbox"/>	C	TBL N5.6-3		
5. STRUCTURAL DETAILS					
a. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF ANCHOR RODS AND OTHER EMBEDDED ITEMS SUPPORTING STRUCTURAL STEEL	<input checked="" type="checkbox"/>	P	N5.7		
b. INSPECTION OF FABRICATED ASSEMBLIES & ERECTED STEEL FRAMING VERIFYING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P	N5.7		
6. COMPOSITE CONSTRUCTION					
a. VERIFY PLACEMENT & INSTALLATION OF STEEL DECK	<input checked="" type="checkbox"/>	P	TBL N6.1		
b. OBSERVE PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	<input checked="" type="checkbox"/>		TBL N6.1		
c. DOCUMENT ACCEPTANCE OR REJECTION OF COMPOSITE CONSTRUCTION ELEMENTS	<input checked="" type="checkbox"/>	P	TBL N6.1		

OPEN-WEB STEEL JOISTS AND JOISTS GIRDERS					
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA		
			STANDARD	NCBC	
1. FABRICATOR CERTIFICATION / VERIFICATION OF QUALITY CONTROL PROCEDURES					
a. VERIFY FABRICATOR QUALIFICATIONS	<input checked="" type="checkbox"/>	C	1704.2.5.1		
b. COLLECT CERTIFICATE OF COMPLIANCE FROM STEEL JOIST PRODUCER AT COMPLETION OF MANUFACTURE	<input checked="" type="checkbox"/>	C	1704.2, 2207.5		
2. OBSERVE BOLTED AND WELDED JOIST END CONNECTIONS	<input checked="" type="checkbox"/>	P	SJI-K 5.3, 5.6, SJI-LH/DLH 104.4, 104.7, SJI-JG 1004.4, 1004.6, SJI-CJ 104.4, 104.7	TBL 1705.2.3	
3. VERIFY SIZE, SPACING AND CONNECTION OF STANDARD HORIZONTAL AND DIAGONAL BRIDGING	<input checked="" type="checkbox"/>	P	SJI-K 5.4, SJI-LH/DLH 104.5, SJI-JG 1004.5, 1004.9, SJI-CJ 104.5	TBL 1705.2.3	
4. VERIFY SIZE, SPACING AND CONNECTION OF BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED BY PART 2207.1 OF THE NCBC	<input checked="" type="checkbox"/>	P		TBL 1705.2.3	

STATEMENT OF SPECIAL INSPECTION SERVICES

PROJECT:
LOCATION:
OWNER'S REPRESENTATIVE:
OWNER'S ADDRESS:

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT, THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE FOLLOWING DESIGNERS OF RECORD:

STRUCTURAL	(Type or print name)	(Signature)	(Date)
ARCHITECTURAL	(Type or print name)	(Signature)	(Date)
MECHANICAL	(Type or print name)	(Signature)	(Date)
OTHER	(Type or print name)	(Signature)	(Date)

THE SPECIAL INSPECTOR MUST KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND MUST FURNISH REPORTS TO THE STATE CONSTRUCTION OFFICE AND THE DESIGNERS OF RECORD. REPORTS MUST INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE STATE CONSTRUCTION OFFICE AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS MUST BE SUBMITTED TO THE STATE CONSTRUCTION OFFICE, OWNER, AND THE DESIGNERS OF RECORD.

INTERIM REPORT FREQUENCY: MONTHLY

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

OWNER'S AUTHORIZATION _____ ACCEPTED FOR THE SCO BY: _____
(Signature) (Date) (Signature) (Date)

SCHEDULE OF SPECIAL INSPECTION SERVICES A

THE FOLLOWING COMPRISES THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS.

- STRUCTURAL STEEL & HIGH STRENGTH BOLTING
- WELDING OF STRUCTURAL STEEL
- COLD-FORMED STEEL DECK
- OPEN-WEB STEEL JOISTS & JOIST GIRDERS
- COLD-FORMED STEEL FRAMING
- CONCRETE CONSTRUCTION
- MASONRY CONSTRUCTION B
- WOOD CONSTRUCTION
- SOILS
- DRIVEN DEEP FOUNDATIONS
- CAST-IN-PLACE DEEP FOUNDATIONS
- HELICAL PILE FOUNDATIONS
- RAMMED AGGREGATE PIERS & STONE COLUMNS
- SPRAYED FIRE-RESISTANT MATERIAL
- MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS
- EXTERIOR INSULATION & FINISH SYSTEM
- FIRE-RESISTANT PENETRATIONS & JOINTS
- SMOKE CONTROL
- RETAINING WALL & SYSTEMS > 5 FEET
- SPECIAL INSPECTIONS FOR WIND RESISTANCE
- SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

- A. THE INSPECTION FREQUENCY INDICATED ON THE FOLLOWING INSPECTION TABLES ARE "C" CONTINUOUS, "P" PERIODIC, & "O" RANDOM ON A DAILY BASIS.
- B. LEVEL A IS THE MINIMUM INSPECTION PROGRAM FOR EMPIRICALLY / PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY I, II OR III STRUCTURES. LEVEL B IS THE MINIMUM INSPECTION PROGRAM FOR EMPIRICALLY / PRESCRIPTIVELY DESIGNED MASONRY IN RISK CATEGORY IV STRUCTURES AND ENGINEERED MASONRY IN RISK CATEGORY I, II OR III STRUCTURES. LEVEL C IS THE MINIMUM INSPECTION PROGRAM FOR ENGINEERED MASONRY IN RISK CATEGORY IV STRUCTURES. ENGINEERED MASONRY STRUCTURES ARE THOSE DESIGNED IN ACCORDANCE WITH PORTIONS OF THE TMS 402-13 / ACI 530-13/ASCE 5-13 OTHER THAN PART 4 OR APPENDIX A.

INSPECTION AGENTS	FIRM NAME & POINT OF CONTACT	ADDRESS / PHONE / E-MAIL
1. SPECIAL INSPECTOR (SI-1)		
2. TESTING AGENCY (TA-1)		
3. TESTING AGENCY (TA-2)		
4. GEOTECHNICAL ENGINEER (GE-1)		
5. OTHER (O-1)		

NOTE: THE INSPECTION AND TESTING AGENT(S) MUST BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL OF RECORD ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE STATE CONSTRUCTION OFFICE, PRIOR TO COMMENCING WORK.

- SEISMIC DESIGN CATEGORY: A B C D
- BASIC WIND SPEED (V_{ASD}): 90-109 MPH 110-119 MPH >120 MPH
- WIND EXPOSURE CATEGORY: B C D

MASONRY - LEVEL A				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			TMS 402a	TMS 602a
1. PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION	<input checked="" type="checkbox"/>	P	TBL 3.1.1	ART. 1.5

A. REFERENCES TO "TMS402" IN THIS TABLE ARE TO THE TMS402/ACI530/ASCE5-13. REFERENCES TO "TMS602" ARE TO TMS602/ACI530.1/ASCE6-13.

SOILS				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			STANDARD	NCBC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	<input checked="" type="checkbox"/>	P		1705.6
2. VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND HAVE REACHED THE CORRECT SOIL MATERIAL	<input checked="" type="checkbox"/>	P		1705.6
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	<input checked="" type="checkbox"/>	P		1705.6
4. VERIFY THAT MATERIALS USED, DENSITIES, LIFT THICKNESS AND PROCEDURES USED DURING PLACEMENT AND COMPACTION OF COMPACTED FILL ARE IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C		1705.6
5. PRIOR TO PLACEMENT OF COMPACTED FILL, VERIFY THAT THE SUBGRADE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT AND THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P		1705.6

CONCRETE CONSTRUCTION				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			STANDARDa	NCBC
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	<input checked="" type="checkbox"/>	P	ACI CH 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:			AWS D1.4	
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 AND COLLECT REPORTS	<input checked="" type="checkbox"/>	P	ACI 26.6.4	1704.5
b. INSPECT SINGLE-PASS FILLET WELDS ≤ 5/16"	<input checked="" type="checkbox"/>	P	ACI 26.6.4	
c. INSPECT ALL WELDS OTHER THAN SINGLE-PASS FILLET WELDS ≤ 5/16"	<input checked="" type="checkbox"/>	C	ACI 26.6.4	
3. CONCRETE ANCHORS:				
a. INSPECT ANCHORS CAST IN CONCRETE	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
b. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION LOADS	<input checked="" type="checkbox"/>	C	ACI 17.8.2.4	
c. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH ORIENTATIONS DIFFERENT FROM ITEM 3.B	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
d. INSPECT MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE	<input checked="" type="checkbox"/>	P	ACI 17.8.2	
4. COLLECT MIX DESIGNS AND VERIFY THE CORRECT MIX USED DURING INSTALLATION	<input checked="" type="checkbox"/>	P	ACI CH 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	<input checked="" type="checkbox"/>	C	ASTM C172, ASTM C31, ACI 26.4, 26.12	1908.10
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	<input checked="" type="checkbox"/>	C	ACI 26.5	1908.6, 1908.7, 1908.8
7. COLLECT REPORTS OF PRECONSTRUCTION TESTS FOR SHOTCRETE WHEN PRECONSTRUCTION TESTS ARE REQUIRED BY NCBC SECTION 1908.4	<input checked="" type="checkbox"/>	C		1704.5, 1908.5
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	<input checked="" type="checkbox"/>	P	ACI 26.5.3-26.5.5	1908.9
9. INSPECTIONS FOR PRESTRESSED CONCRETE				
a. OBSERVE APPLICATION OF PRESTRESSING FORCE	<input checked="" type="checkbox"/>	C	ACI 26.10	
b. INSPECT GROUTING OF BONDED PRESTRESSING TENDONS	<input checked="" type="checkbox"/>	C	ACI 26.10	
10. VERIFY CONCRETE STRENGTH PRIOR TO STRESSING OF PT TENDONS AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM PT & MILD BEAMS AND STRUCTURAL SLABS	<input checked="" type="checkbox"/>	P	ACI 26.11.2	
11. INSPECT ERECTION OF PRECAST MEMBERS	<input checked="" type="checkbox"/>	P	ACI 26.8	
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	<input checked="" type="checkbox"/>	P	ACI 26.11.1.2(B)	
13. COLLECT MILL TEST REPORTS FOR ASTM A615 REBAR USED BY SFRS SPECIAL MOMENT FRAMES, SPECIAL STRUCTURAL WALLS OR COUPLING BEAMS	<input checked="" type="checkbox"/>	C	ACI 20.2.2.5	1704.5

A. REFERENCES TO "ACI" IN THIS TABLE ARE TO THE ACI 318-14.

COLD-FORMED STEEL DECK				
INSPECTION TASK	TASK REQD	FREQ	REFERENCE FOR CRITERIA	
			SDI QA/QC	NCBC
1. PRIOR TO DECK PLACEMENT, VERIFY DECK AND DECK ACCESSORIES COMPLY WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL 1.1	
2. INSPECTION TASKS AFTER DECK PLACEMENT				
a. VERIFY THE INSTALLATION OF DECK & DECK ACCESSORIES COMPLIES WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL 1.2	
b. VERIFY THAT DECK MATERIALS' MILL CERTIFICATIONS COMPLY WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	C	TBL 1.2	
3. INSPECTION TASKS PRIOR TO DECK WELDING				
a. COLLECT WELDING PROCEDURE SPECIFICATION (WPS)	<input checked="" type="checkbox"/>	P	TBL 1.3	
b. COLLECT MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	<input checked="" type="checkbox"/>	P	TBL 1.3	
c. VERIFY MATERIAL TYPE AND GRADE	<input checked="" type="checkbox"/>	P	TBL 1.3	
d. CHECK WELDING EQUIPMENT	<input checked="" type="checkbox"/>	P	TBL 1.3	
4. INSPECTION TASKS DURING DECK WELDING				
a. VERIFY WELDER QUALIFICATIONS	<input checked="" type="checkbox"/>	P	TBL 1.4	
b. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES	<input checked="" type="checkbox"/>	P	TBL 1.4	
c. MONITOR ENVIRONMENTAL CONDITIONS	<input checked="" type="checkbox"/>	P	TBL 1.4	
d. MONITOR PROPER IMPLEMENTATION OF WPS	<input checked="" type="checkbox"/>	P	TBL 1.4	
5. INSPECTION TASKS AFTER WELDING				
a. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP AND PERIMETER WELDS	<input checked="" type="checkbox"/>	C	TBL 1.5	
b. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA	<input checked="" type="checkbox"/>	C	TBL 1.5	
c. OBSERVE WELD REPAIR ACTIVITIES	<input checked="" type="checkbox"/>	C	TBL 1.5	
6. INSPECTION TASKS PRIOR TO MECHANICAL FASTENING				
a. VERIFY MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	<input checked="" type="checkbox"/>	P	TBL 1.6	
b. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	<input checked="" type="checkbox"/>	P	TBL 1.6	
c. VERIFY PROPER STORAGE OF MECHANICAL FASTENERS	<input checked="" type="checkbox"/>	P	TBL 1.6	
7. INSPECTION TASKS DURING MECHANICAL FASTENING				
a. OBSERVE FASTENER SPACING AND POSITION	<input checked="" type="checkbox"/>	P	TBL 1.7	
b. VERIFY FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	<input checked="" type="checkbox"/>	P	TBL 1.7	
8. INSPECTION TASKS AFTER MECHANICAL FASTENING				
a. CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT FASTENERS	<input checked="" type="checkbox"/>	C	TBL 1.8	
b. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	<input checked="" type="checkbox"/>	C	TBL 1.8	
c. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	<input checked="" type="checkbox"/>	C	TBL 1.8	
d. VERIFY REPAIR ACTIVITIES	<input checked="" type="checkbox"/>	C	TBL 1.8	
9. DOCUMENT ACCEPTANCE OR REJECTION OF DECK & DECK ACCESSORIES FOR ALL PHASES OF CONSTRUCTION	<input checked="" type="checkbox"/>	C	TBL 1.1 THRU 1.8	

RETAINING WALLS EXCEEDING 5 FEET ^{A B C D}				
INSPECTION TASK	TASK REQD	FREQ ^A	REFERENCE FOR CRITERIA	
			STANDARD	NCBC
1. FOUNDATION SUPPORT SYSTEM IS ADEQUATE FOR THE INTENDED SITE CONDITIONS	<input checked="" type="checkbox"/>	P		1807.2.5.1
2. VERIFY THAT RETAINING WALL MATERIALS AND INSTALLATIONS ARE IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS	<input checked="" type="checkbox"/>	P		1807.2.5.2
3. VERIFY THAT ACTUAL SOIL CONDITIONS ARE SIMILAR TO THOSE ANTICIPATED BY THE APPROVED ENGINEERED DESIGN	<input checked="" type="checkbox"/>	P		1807.2.5.3
4. EXAMINATION OF BACKFILL MATERIALS FOR COMPLIANCE WITH THE APPROVED SPECIFICATIONS	<input checked="" type="checkbox"/>	P		1807.2.5.4
5. CONFIRM THAT ALL SUBSOIL DRAINAGE PIPING IS UNDAMAGED, DRAINS FREELY TO THE DESIGNATED OUTLET OR STRUCTURE, AND HAS BEEN INSTALLED PER THE APPROVED ENGINEERED DESIGN	<input checked="" type="checkbox"/>	P		1807.2.5.4

A. ALL RETAINING WALLS EXCEEDING 5 FEET IN HEIGHT REQUIRE SPECIAL INSPECTIONS.
 B. FOR CONCRETE RETAINING WALLS AND FOOTINGS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3 OF THE NORTH CAROLINA BUILDING CODE AND THE APPLICABLE SCHEDULES INCLUDED HEREIN.
 C. FOR MASONRY RETAINING WALLS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.4 OF THE NORTH CAROLINA BUILDING CODE AND THE APPLICABLE SCHEDULES INCLUDED HEREIN.
 D. FOR SOILS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.6 OF THE NORTH CAROLINA BUILDING CODE AND THE APPLICABLE SCHEDULES INCLUDED HEREIN.

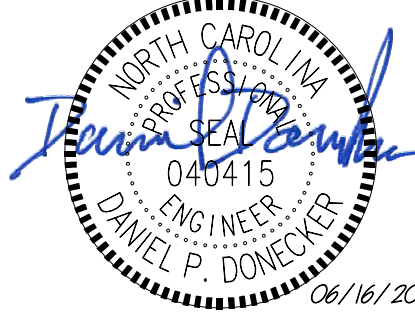
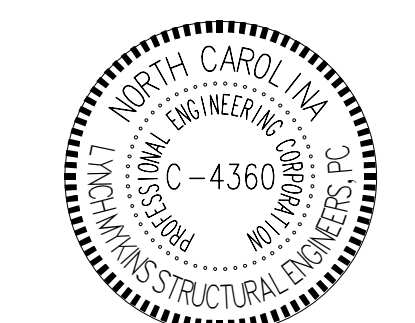


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 22-004



NO.	REVISION	DATE
1	OWNER REVIEW	6/16/23

JOB NUMBER
22-004
 DATE ISSUED
05/25/2023
 PROJECT STATUS
PERMIT SET

SHEET
SPECIAL INSPECTIONS 2



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SECTION 014100 – SPECIAL INSPECTION SERVICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for Special Inspection Services.
- B. Certain structural components of the Project will be subject to the requirements for Special Inspections. Special Inspections will be applicable to the following specification sections:

1. Section 033000 Cast-In-Place Concrete for Buildings
2. Section 042000 Unit Masonry
3. Section 051200 Structural Steel Framing
4. Section 053100 Steel Decking
5. Section 312000 Earthwork for Buildings

- C. The Owner will procure and bear all costs of the Project Inspector and the Independent Testing Laboratory, except as otherwise noted. The Project Inspector will be the manager of the Special Inspection process. The Project Inspector checks the certification of all other inspecting agents required by Special Inspections and coordinates their activities. The Project Inspector carries the responsibility for coordinating Special Inspections. The Statement of Special Inspections will be required by the Building Official as a condition for building permit issuance.

- D. Requirements for Special Inspections are outlined in the Statement and Schedule of Special Inspections included at the end of this section.

1. Specific quality-assurance and control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
3. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner or authorities having jurisdiction are not limited by provisions of this Section.

- E. Special Inspection services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.

1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 3. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner or authorities having jurisdiction are not limited by provisions of this Section.
 4. Specific test and inspection requirements are not specified in this Section.
- F. Related Sections: The following Sections contain requirements that relate to this Section:
1. Section 014000 "Quality Requirements" specifies requirements for inspection and testing requirements.

1.3 RESPONSIBILITIES

- A. Contractor Responsibilities: Contractor shall provide and include in the Contract Sum, inspections, tests, and other similar quality-control services specified elsewhere in the Contract Documents and required by authorities having jurisdiction except where they are specifically indicated to be the Owner's responsibility, or are provided by another identified entity.
1. Retesting: The Contractor is responsible for retesting where results of inspections, tests, or other quality-control services prove unsatisfactory and indicate noncompliance with Contract Document requirements, regardless of whether the original test was Contractor's responsibility.
 - a. The Contractor shall correct deficiencies in work that inspections and laboratory test reports have indicated to be not in compliance with requirements.
 - b. The cost of retesting construction, revised or replaced by the Contractor, is the Contractor's responsibility where required tests performed on original construction indicated noncompliance with Contract Document requirements.
 2. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - a. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 3. Associated Services: The Contractor shall cooperate with agencies performing required inspections, tests, and similar services, and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include, but are not limited to, the following:
 - a. Provide access to the Work.
 - b. Furnish incidental labor and facilities necessary to facilitate inspections and tests.

- c. Take adequate quantities of representative samples of materials that require testing or assist the agency in taking samples.
- d. Provide and maintain for the sole use of the Special Inspector or Special Inspectors adequate facilities for safe storage and proper curing of test samples on the Project Site.
- e. Provide the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
- f. Provide security and protection of samples and test equipment at the Project Site.
- g. The Contractor shall designate a representative (the superintendent or an assistant to the superintendent) who shall be the direct point-of-contact with the Special Inspector during each phase of the work. Discrepancies noted during the progress of the work will be reported to the Contractor's representative for corrective action. Communications given by the Special Inspector to the Contractor's representative shall be as binding as if given to the Contractor.

B. Special Inspector Responsibilities:

- 1. The Special Inspector shall conduct and interpret tests, state in each report whether test specimens comply with requirements, specifically state any deviations therefrom, and record work required and performed to correct deficiencies.
- 2. The Special Inspector will keep records of all inspection and tests which will be furnished to the Building Official, the Architect, and the Structural Engineer of Record.
- 3. The Special Inspector shall notify the Architect and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services. All discrepancies will be brought to the immediate attention of the Contractor for correction. If discrepancies are not corrected, the discrepancies will be brought to the attention of the Building Official and the Structural Engineer of Record.
- 4. A final report documenting completion of all required special inspections and corrections of any discrepancies noted will be submitted to the Building Official by the Special Inspector prior to, and as a condition of, issuance of the *Certificate of Use and Occupancy*.
- 5. The Special Inspector shall not perform any duties of the Contractor.
- 6. The Special Inspector shall not release, revoke, alter, decrease or increase the Contract Document requirements.

C. Independent Testing Laboratory Responsibilities: The Independent Testing Laboratory engaged to perform inspections, sampling, and testing of materials and construction specified in individual Sections shall cooperate with the Architect and the Contractor in performance of the Laboratory's duties. The Laboratory shall provide qualified personnel to perform required inspections and tests.

- 1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
- 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
- 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
- 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
- 5. Shall not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.

D. Coordination: The Contractor and each agency engaged to perform inspection, tests and similar services shall coordinate the sequence of activities to accommodate required services with a minimum of delay. In addition the Contractor and each agency shall coordinate activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests.

1. The Contractor is responsible for scheduling times for inspections, tests, taking samples, and similar activities.

1.4 SUBMITTALS

- A. The Special Inspector and the Independent Testing Laboratory shall submit a certified written report, in duplicate, of each inspection, test, or similar service to the Architect.
 1. Submit additional copies of each written report directly to the governing authority, when the authority so directs.
 2. Report Data: Written reports of each inspection, test, or similar service include, but are not limited to, the following:
 - a. Date of issue.
 - b. Project title and number.
 - c. Name, address, and telephone number of testing agency.
 - d. Dates and locations of samples and tests or inspections.
 - e. Names of individuals making the inspection or test.
 - f. Designation of the Work and test method.
 - g. Identification of product and Specification Section.
 - h. Complete inspection or test data.
 - i. Test results and an interpretation of test results.
 - j. Ambient conditions at the time of sample taking and testing.
 - k. Comments or professional opinion on whether inspected or tested Work complies with Contract Document requirements.
 - l. Name and signature of laboratory inspector.
 - m. Recommendations on retesting.

1.5 QUALITY ASSURANCE

- A. Qualification for Special Inspector: The Special Inspector shall be a Registered Professional Engineer, Licensed in the State of North Carolina, experienced in performing special inspections and shall be approved by the Building Official and the Architect. The credentials of all Inspectors and testing technicians shall be provided if requested.
- B. Qualifications for Independent Testing Laboratory: Engage independent inspection and testing laboratories, that are prequalified as complying with the American Council of Independent Laboratories' "Recommended Requirements for Independent Laboratory Qualification" and that specialize in the types of inspections and tests to be performed.
 1. Each independent inspection and testing agency engaged on the Project shall be authorized by authorities having jurisdiction to operate in the state where the Project is located.
 2. Each independent Inspection and Testing Agency engaged on the Project shall demonstrate that it has the experience and capability to conduct the required field and laboratory testing without delaying the progress of the work. The minimum requirements shall be as follows:
 - a. Reinforced Concrete testing
 - 1) **ACI-CFTT** Concrete Field Testing Technician – Grade 1
 - 2) **ACI-LTT** Laboratory Testing Technician – Grade 1 or 2 and Strength Testing Technician

- 3) **NICET-CT** – *Concrete Technician – Level [I][II][III][IV]*
 - b. Reinforced Concrete Inspection
 - 1) **ACI-CCI** *Concrete Construction Inspector*
 - 2) **ICC-RCSI** *Reinforced Concrete Special Inspector*
 - c. Structural Steel
 - 1) **AWS-CWI** *Certified Welding Inspector*
 - 2) **AWS/AISC-CSI** *Certified Steel Inspector*
 - 3) **ICC-SWSI** *Structural Steel and Welding Inspector*
 - d. Non-Destructive Testing – American Society of Non-Destructive.
 - e. Structural Masonry
 - 1) **ICC-SMSI** *Structural Masonry Special Inspector*
 - f. Spray-Applied Fireproofing
 - 1) **ICC-SFSI** *Spray-Applied Fireproofing Special Inspector*
 - g. Soils Testing
 - 1) **NICET-ST**- *Soils Technician Level III*
 - 2) **NICET-GET** – *Geotechnical Engineering Technician Level III*
- B. Pre-Construction Conference – Prior to the start of project construction, the Special Inspector shall conduct a Pre-Construction Conference to discuss the requirements for Special Inspections as well as the Administrative Procedures to be followed during the course of the project. Protocols for notification, documentation, and individual responsibilities shall be reviewed. Attendees shall include, but are not limited to:
- 1. Owner
 - 2. Owner’s Project Manager
 - 3. Owner’s Project Inspector
 - 4. Owner’s Independent Testing Agency
 - 5. Architect
 - 6. Structural Engineer
 - 7. Contractor’s Project Manager
 - 8. Contractor’s Superintendent

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 - 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams

that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."

- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 014100