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NOTE: THIS VIEW REPRESENTS A SCHEMATIC RENDERING ONLY AND IS NOT INTENDED TO CONVEY CONSTRUCTION INFORMATION. ALL CONSTRUCTION SHALL COMPLY WITH SPECIFIC NOTES AND DETAILS WITHIN THE STRUCTURAL DRAWINGS.



3D REFERENCE VIEW ONLY  
SCALE :

A  
S000

LEGEND OF SYMBOLS AND ABBREVIATIONS

AB	=	ANCHOR BOLT		FOOTING MARK	
ABV	=	ABOVE		TOP OF FOOTING ELEVATION	
ARCH	=	ARCHITECT		SECTION MARK	
BLW	=	BELOW		SHEET NUMBER	
BN	=	BOUNDARY NAILING		TOP OF FOUNDATION WALL OR COLUMN PIER ELEVATION	
BS	=	BOUNDARY SCREW		SHEAR WALL - SEE SCHEDULE	
BRB	=	BUCKLING RESTRAINED BRACE		MIN. LENGTH OF SHEAR WALL	
BRBF	=	BUCKLING RESTRAINED BRACE FRAME		FOOTING STEP	
CJP	=	COMPLETE JOINT PENETRATION		MASONRY WALL	
CL	=	CENTERLINE		CONCRETE WALL	
CMU	=	CONCRETE MASONRY UNIT		DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT MASONRY FOUNDATION WALL	
COL	=	COLUMN		DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT CONCRETE FOUNDATION WALL	
CONC	=	CONCRETE		MASONRY BEAM	
CP	=	CONCRETE PIER		CONCRETE BEAM	
DC	=	DEMAND CRITICAL		ELEVATION	
DIA	=	DIAMETER		L	FRAMING ANGLE SEE TYPICAL DETAIL
DBA	=	DEFORMED BAR ANCHOR		C	FRAMING CHANNEL SEE TYPICAL DETAIL
DBE	=	DECK BEARING ELEVATION		L	ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.
ELEV	=	ELEVATION		BRACED FRAME	
EN	=	EDGE NAILING		MOMENT RESISTING CONNECTIONS - SEE DETAIL	
EOD	=	EDGE OF DECK		MOMENT RESISTING CANTILEVER CONNECTIONS - SEE DETAIL	
FDN	=	FOUNDATION		KB	KICKER BRACE
FTG	=	FOOTING		C	COLUMN SIZE PIER MARK (PIER ELEV.)
FFE	=	FINISHED FLOOR ELEVATION			
GB	=	CONCRETE GRADE BEAM			
HSA	=	HEADED STUD ANCHOR			
JBE	=	JOIST BEARING ELEVATION			
KB	=	KICKER BRACE			
MAX	=	MAXIMUM			
MB	=	MASONRY BEAM			
MC	=	MASONRY COLUMN			
MECH	=	MECHANICAL			
MEZZ	=	MEZZANINE			
MIN	=	MINIMUM			
MJ	=	MASONRY JAMB			
MW	=	MASONRY WALL			
NS, FS	=	NEAR SIDE, FAR SIDE			
OAE	=	OR APPROVED EQUAL			
OPP	=	OPPOSITE			
PAF	=	POWDER ACTUATED FASTENER			
PL	=	PLATE			
REINF	=	REINFORCING			
REQD	=	REQUIRED			
SIM	=	SIMILAR			
SSH	=	STEEL STUD HEADER			
SSJ	=	STEEL STUD JAMB			
SSS	=	STEEL STUD SILL			
SSW	=	STEEL STUD WALL			
TOS	=	TOP OF BEAM ELEVATION			
TOC	=	TOP OF CONCRETE SLAB			
TOF	=	TOP OF FOOTING			
TOG	=	TOP OF GIRDER ELEVATION			
TOM	=	TOP OF MASONRY			
TOS	=	TOP OF STEEL ELEVATION			
TYP	=	TYPICAL			
UNO	=	UNLESS NOTED OTHERWISE			

Structural Sheet Index

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SCHEMATIC REFERENCE

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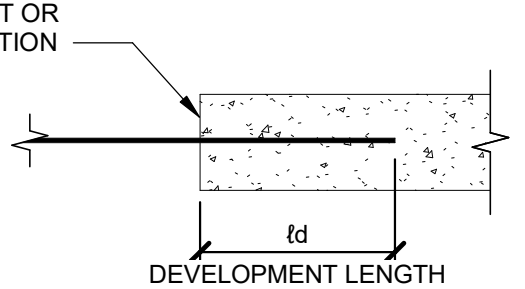
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STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE									
ESTABLISHED PER 2021 IBC SECTION 1705.2.1									
INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)		FABRICATOR QUALITY CONTROL		SPECIAL INSPECTOR QUALITY ASSURANCE		NOTES		INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	
		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC			CONTINUOUS	PERIODIC
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		●			●			●	●
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE		●			●			●	●
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		●			●			●	●
MATERIAL IDENTIFICATION (TYPE / GRADE)			●		●			●	●
WELDER IDENTIFICATION SYSTEM <sup>1</sup>			●		●			●	●
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)									
* JOINT PREPARATION									
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)									
* CLEANLINESS (CONDITION OF STEEL SURFACES)									
* TACKING (TACK WELD QUALITY AND LOCATION)									
* BACKING TYPE AND FIT (IF APPLICABLE)									
FIT-UP OF CJP GROOVE WELDS OFHSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)									
* JOINT PREPARATIONS		●			●			●	●
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)									
* CLEANLINESS (CONDITION OF STEEL SURFACES)									
* TACKING (TACK WELD QUALITY AND LOCATION)									
CONFIGURATION AND FINISH OF ACCESS HOLES				●	●				
FIT-UP OF FILLET WELDS									
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)									
* CLEANLINESS (CONDITION OF STEEL SURFACES)									
* TACKING (TACK WELD QUALITY AND LOCATION)									
CHECK WELDING EQUIPMENT									
<sup>1</sup> THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.									
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC				
CONTROL AND HANDLING OF WELDING CONSUMABLES									
* PACKAGING					●				●
* EXPOSURE CONTROL									
NO WELDING OVER CRACKED TACK WELDS					●				●
ENVIRONMENTAL CONDITIONS									
* WIND SPEED WITHIN LIMITS					●				●
* PRECIPITATION AND TEMPERATURE									
WPS FOLLOWED									
* SETTINGS ON WELDING EQUIPMENT									
* TRAVEL SPEED									
* SELECTED WELDING MATERIALS				●	●				●
* SHIELDING GAS TYPE / FLOW RATE									
* PREHEAT APPLIED									
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)									
* PROPER POSITION (F, V, H, OH)									
WELDING TECHNIQUES									
* INTERPASS AND FINAL CLEANING									
* EACH PASS WITHIN PROFILE LIMITATIONS					●				●
* EACH PASS MEETS QUALITY REQUIREMENTS									
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		●		●					
INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC				
WELDS CLEANED		●	●	●	●				
SIZE, LENGTH AND LOCATION OF WELDS		●	●	●	●				
WELDS MEET VISUAL ACCEPTANCE CRITERIA									
* CRACK PROHIBITION									
* WELD / BASE-METAL FUSION									
* CRATER CROSS SECTION				●					
* WELD PROFILES									
* WELD SIZE									
* UNDERCUT									
* POROSITY									
ARC STRIKES		●		●					
K-AREA <sup>1</sup>		●		●					
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES <sup>2</sup>		●		●					
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		●		●					
REPAIR ACTIVITIES		●		●					
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		●		●					
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR			●		●				
<sup>1</sup> WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD.)									
<sup>2</sup> AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.									
INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES			
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		●		●				1.	PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		●		●	●			2.	CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION.
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		●		●	●			3.	QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL		●		●	●			4.	QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7.
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		●		●	●			5.	FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS.
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		●		●	●			6.	FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER.
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		●		●	●			7.	FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER.
INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC			8.	OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION.
FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED			●		●				
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION			●		●				
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			●		●				
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES			●		●				
INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)		CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC				
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		●		●					
GENERAL STEEL SPECIAL INSPECTION NOTES :									
1. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QAI) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR.									
2. QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QAI SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR.									
3. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QCI AND QAI SO THAT THE INSPECTION FUNCTIONS ARE PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTIONS PERFORMED BY QC, THE APPROVAL OF THE ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS REQUIRED.									
4. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE SHOP DRAWINGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.									
5. THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE.									
6. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.									
7. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT), MAY BE WAIVED WHEN THE WORK IS PERFORMED IN A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. NDT OF WELDS COMPLETED IN AN APPROVED FABRICATOR'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.									
8. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AT COMPLETION OF ERECTION, THE APPROVED ERECTOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.									
9. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE INSPECTOR OF THE OBLIGATION FOR TIMELY, IN-SEQUENCE INSPECTIONS. NONCONFORMING MATERIAL AND WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRICATOR OR ERECTOR, AS APPLICABLE.									
10. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFORMANCE, OR MADE SUITABLE FOR ITS INTENDED PURPOSE AS DETERMINED BY THE ENGINEER OF RECORD.									
11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE FABRICATOR AND ERECTOR:									
(1) NONCONFORMANCE REPORTS									
(2) REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITEMS.									

SPECIAL INSPECTION SCHEDULE 1, 2				
ESTABLISHED PER 2021 IBC SECTION 110 AND CHAPTER 17				
ITEM	CONTINUOUS <sup>1</sup>	PERIODIC <sup>1</sup>	REFERENCE	COMMENTS
<b>PRE-FAB CONSTRUCTION (IBC 1704.2)</b>				
			REFERENCE NOTES P1 & P2	P1. SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, PROVIDED THE FABRICATOR COMPLIES WITH IBC.
				P2. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2).
<b>OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC 1705.2.3)</b>				
INSTALLATION OF OPEN-WEB JOISTS AND JOIST GIRDERS				
END CONNECTIONS - WELDED OR BOLTED		●	SJI SPECIFICATIONS LISTED IN SECTION 2207.1	
BRIDGING - HORIZONTAL OR DIAGONAL				
STANDARD BRIDGING		●		
BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		●	SJI SPECIFICATIONS LISTED IN SECTION 2207.1	
<b>CONCRETE CONSTRUCTION (IBC 1705.3)</b>			SEE IBC TABLE 1705.3 - REF. NOTE C1	
REINFORCING STEEL PLACEMENT				C1. SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET.
WELDING OF REINFORCING STEEL	●	●	REFERENCE NOTE C2	C2. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES. BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.
ANCHORS CAST IN CONCRETE	●			C3. PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST.
VERIFYING REQUIRED DESIGN MIX		●		C4. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
CONCRETE PLACEMENT / SAMPLING	●		REFERENCE NOTE C3	C5. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT AND ACI 308 - 17.8.2.4.
CURING TEMPERATURE / TECHNIQUES		●		C6. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FORM



FOR CONCRETE APPLICATIONS (ACI 318 - 19)



BAR LOCATION		CONCRETE REINFORCING & SPLICE LENGTHS (IN)																														COMMENTS
		CONCRETE		BAR SIZE																												
				#3		#4		#5		#6		#7		#8		#9		#10		#11												
TYPE	STRENGTH	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh				
VERT. WALL BARS, FILL ON METAL DECK	NWC	3000 PSI	17	22	6	22	29	6	28	36	8	33	43	11	48	62	14	55	72	16	62	81	20	70	91	23	78	101	27			
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	3000 PSI	22	29	6	29	38	6	36	47	8	43	56	11	63	82	14	72	94	16	81	105	20	91	118	23	101	131	27			
BEAM BOTTOM BARS, COLUMN BARS	NWC	3000 PSI	17	22	6	22	29	10	28	36	13	33	43	17	48	62	21	55	72	26	62	81	31	70	91	37	78	101	43			
FOOTING BOTTOM BARS, SLAB ON GRADE	NWC	3000 PSI	12	16	6	14	18	6	17	22	8	20	26	11	29	38	14	33	43	16	38	49	20	42	55	23	46	61	27			
SLAB TOP BARS <sup>5</sup> BEAM TOP BARS	NWC	3000 PSI	22	29	6	29	38	10	36	47	13	43	56	17	63	82	21	72	94	26	81	105	31	91	118	37	101	131	43			

BAR LOCATION		CONCRETE REINFORCING & SPLICE LENGTHS (IN)																														COMMENTS
		CONCRETE		BAR SIZE																												
				#3		#4		#5		#6		#7		#8		#9		#10		#11												
TYPE	STRENGTH	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh	fd	ts	tdh				
VERT. WALL BARS, FILL ON METAL DECK	NWC	4500 PSI	14	18	6	18	23	6	23	30	8	27	35	10	40	52	12	45	59	15	51	66	18	57	74	21	64	83	25			
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	4500 PSI	18	23	6	24	31	6	30	39	8	35	46	10	51	66	12	59	77	15	66	86	18	74	96	21	82	107	25			
BEAM BOTTOM BARS, COLUMN BARS	NWC	4500 PSI	14	18	6	18	23	9	23	30	12	27	35	16	40	52	20	45	59	24	51	66	29	57	74	34	64	83	40			
FOOTING BOTTOM BARS, SLAB ON GRADE	NWC	4500 PSI	12	16	6	12	16	6	13	17	8	16	21	10	23	30	12	26	34	15	29	38	18	33	43	21	36	47	25			
SLAB TOP BARS <sup>5</sup> BEAM TOP BARS	NWC	4500 PSI	18	23	6	24	31	9	30	39	12	35	46	16	51	66	20	59	77	24	66	86	29	74	96	34	82	107	40			

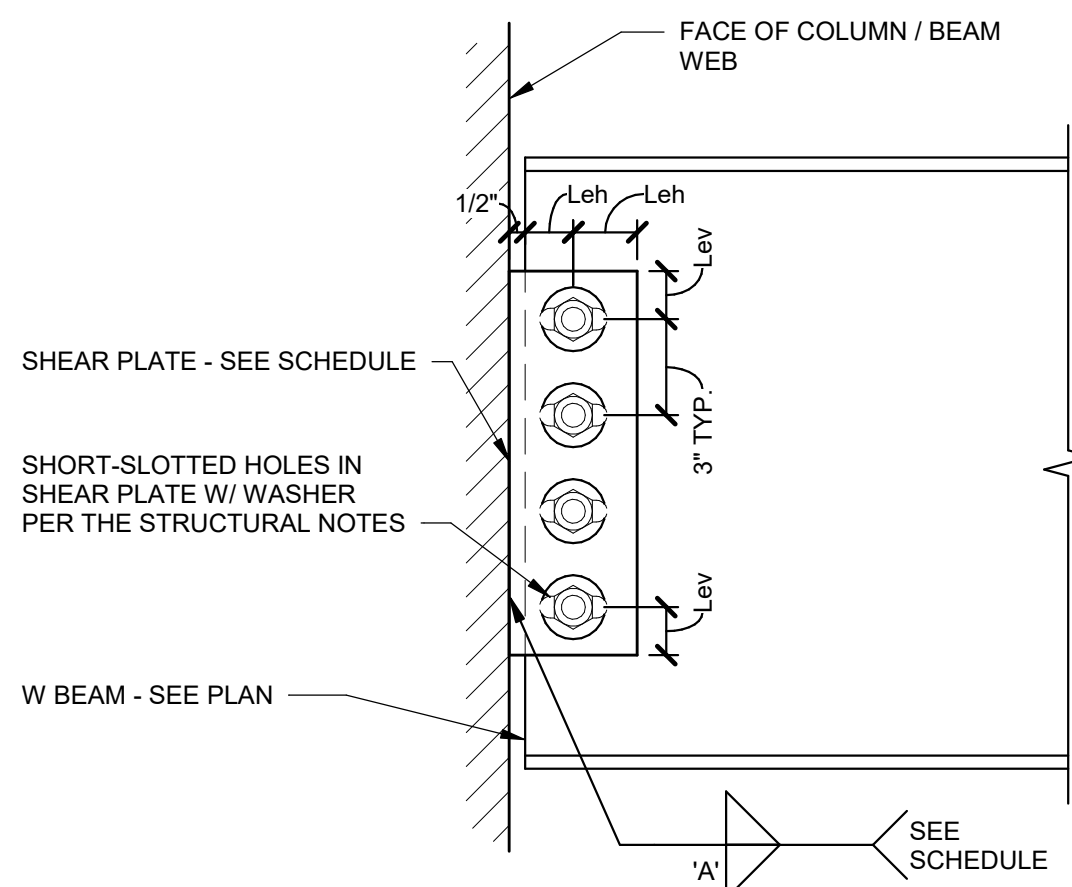
NOTES:  
1. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS INDICATED ABOVE.  
2. WHERE EPOXY COATING IS USED, LENGTHS INDICATED IN THIS SCHEDULE SHALL BE INCREASED BY 50%. HOOKED DEVELOPMENT LENGTHS (tdh) SHALL INCREASE BY 20%.  
3. WHEN SPLICING BARS OF DIFFERENT SIZES, USE LAP SPLICE LENGTH OF LARGER BARS ONLY.  
4. SPLICE BARS LARGER THAN #11 USING MECHANICAL COUPLERS.  
5. SLAB TOP BARS ONLY FOR SLABS 12" OR GREATER IN THICKNESS.  
6. WHERE LIGHTWEIGHT CONCRETE IS USED, LENGTHS INDICATED IN THIS SCHEDULE SHALL BE INCREASED BY 33%.

BRICK VENEER

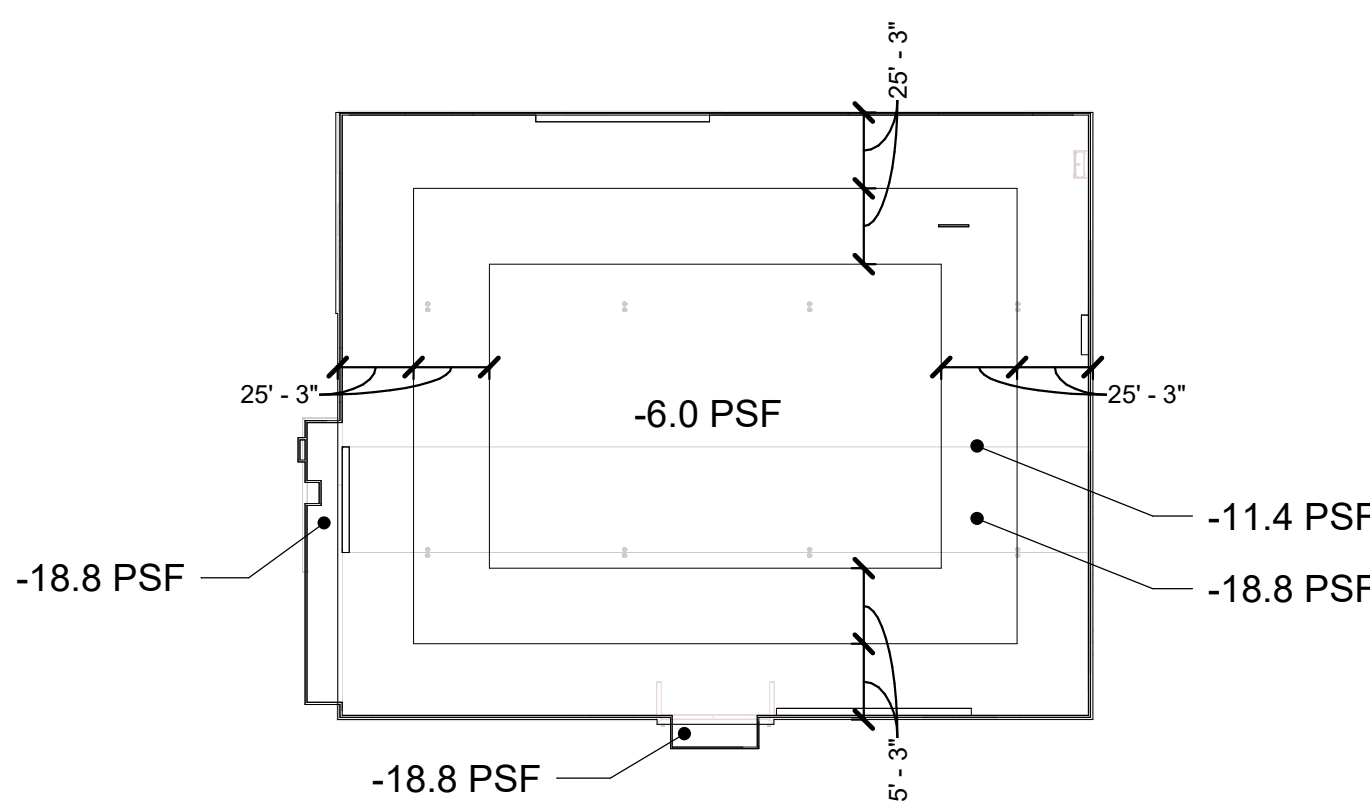
STEEL ANGLE PER SCHEDULE (LLV IF UNEQUAL LEGS)

CLEAR OPENING	SIZE OF ANGLE
UP TO 7'-0"	3-1/2" x 3-1/2" x 1/4"
7'-1" TO 9'-0"	5" x 3-1/2" x 1/4"
9'-1" TO 10'-0"	5" x 3-1/2" x 5/16"
10'-1" TO 11'-0"	5" x 3-1/2" x 3/8"
11'-1" TO 12'-0"	6" x 4" x 3/8"

BEAM CONNECTION SCHEDULE							
BEAM DEPTH	SHEAR PLATE INFORMATION			BOLTS W/ STANDARD WASHERS OVER SLOTS		WELD 'A'	COMMENTS
	PL. DIMENSIONS W/ SHORT- SLOTTED HOLES	L <sub>av</sub>	L <sub>ah</sub>	No.	SIZE		
W8, W10	PL. 1/4" x REQ'D	1 1/2"	2"	2	3/4" Ø	3/16"	
W12, W14	PL. 5/16" x REQ'D	1 1/2"	2"	3	3/4" Ø	1/4"	
W16	PL. 5/16" x REQ'D	1 1/2"	2"	4	3/4" Ø	1/4"	
W18	PL. 5/16" x REQ'D	1 1/2"	2"	5	3/4" Ø	1/4"	
W21	PL. 5/16" x REQ'D	1 1/2"	2"	6	3/4" Ø	1/4"	
W24	PL. 3/8" x REQ'D	1 1/2"	2"	6	7/8" Ø	1/4"	
W27	PL. 3/8" x REQ'D	1 1/2"	2"	7	7/8" Ø	1/4"	
W30	PL. 1/2" x REQ'D	1 3/4"	2"	8	1" Ø	5/16"	
W33	PL. 1/2" x REQ'D	1 3/4"	2"	9	1" Ø	5/16"	
W36	PL. 1/2" x REQ'D	2"	2 1/2"	10	1-1/8" Ø	5/16"	
W40	PL. 1/2" x REQ'D	2"	2 1/2"	10	1-1/8" Ø	5/16"	



(FOR JOIST AND JOIST GIRDER DESIGN)



NOTE : LOADS SHOWN ARE NET UPLIFT LOADS. 60% OF DEAD LOAD HAS BEEN SUBTRACTED FROM GROSS WIND UPLIFT LOAD. LOADS SHOWN ARE ASSUMING AN EFFECTIVE AREA OF 100 FT<sup>2</sup>, USE ASCE7 FOR CALCULATING WIND PRESSURES FOR OTHER EFFECTIVE AREAS.

[illegible]

PATTERN : 36/7

1. ALL ROOF DECKING TO BE SUPPLIED BY VEROCO, OR APPROVED EQUAL. ALTERNATE DECKING SHALL BE SUBMITTED WITH CURRENT ICC APPROVAL TO ENGINEER FOR REVIEW AND APPROVAL. ALTERNATE DECKING SYSTEMS SHALL MEET OR EXCEED THE MINIMUM SHEAR CAPACITY AND SPALL RESISTANCE OF VEROCO HANCOCK HANCOCK OR EQUAL, AS LISTED IN THE SCHEDULE.
2. PAF = H/LTI X HSN 24 POWDER ACTUATED FASTENERS, VS2C = VEROCO SIDELAP CONNECTION WITH PUNCHLOK TOOL, SCREWS = SELF DRILLING SCREW 1/2" DIA C1513, SPOT WELD = 3/4" VERTICAL DIAMETER SPOT WELD.
3. USE NESTABLE (OVERLAPPING) SIDE SEAMS AT JOINTS OVERCHANGERS AND INTERLOCKING SIDE SEAMS AT WELDS.
4. IF NESTABLE IS NOT NECESSARY, H AND G END BUTT JOINTS ON STEEL JOISTS SHALL BE WELD 1/6 GA. 3/8" CONTINUOUS SHEET METAL GEND AND JOIST TOP CHORD ANGLES. DECK WELDS TO BE 1/4" DIA. 3/8" CONTINUOUS SHEET METAL GEND AND JOIST TOP CHORD ANGLES.
5. ALL DECK WITH A PROFILE DEPTH OF 2" OR LESS SHALL HAVE NESTED OR TELESCOPED END LAPS.
6. WHERE WELDS ARE USED, SUPPORT WELDS AT INTERLOCKING SIDELAPS MAY BE 3/8" X 1/4" ARC SEAM WELDS IN LIEU OF ARC SPOT WELDS.

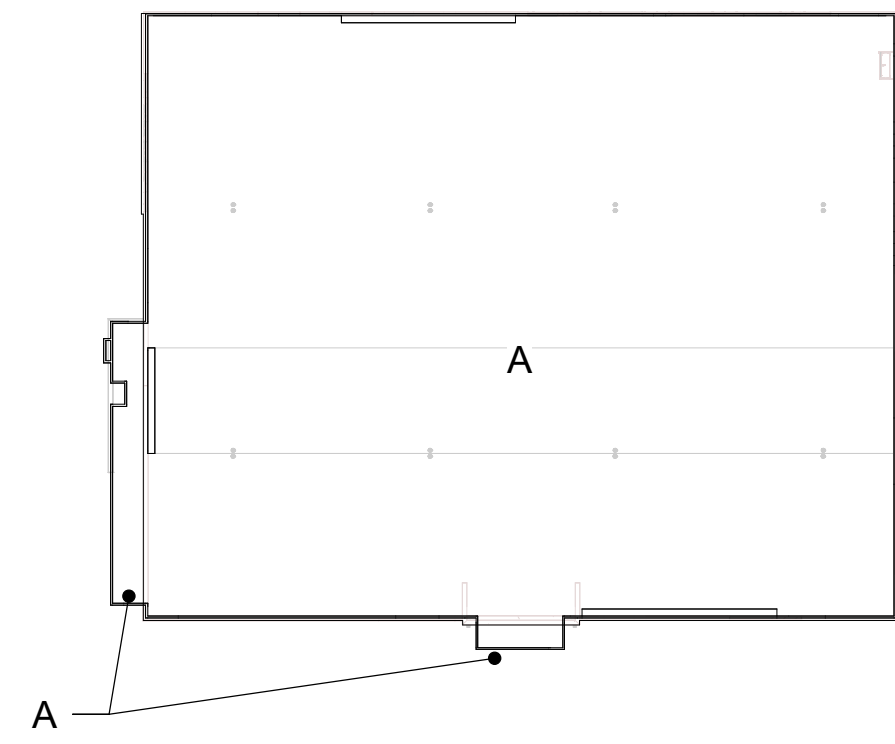


Diagram showing the elevation view of a column and beam joint. The column is on the left, and the beam is on the right. The joint is detailed with stiffener plates and shear plates. The column has a diameter of 12" and a wall thickness of 1/2" TYP. The beam has a width of 12" and a wall thickness of 1/2" TYP. The joint is reinforced with stiffener plates and shear plates. The stiffener plates are 3/8" thick and are spaced at 12" intervals. The shear plates are 1/2" thick and are spaced at 12" intervals. The joint is also reinforced with W16 and W18 columns. The joint is labeled 'W BEAM - SEE PLAN'. The joint is also labeled 'SHORT-SLOTTED HOLES IN SHEAR PLATE'. The joint is also labeled 'SHEAR PL. - SEE SCHEDULE'. The joint is also labeled 'SEE SCHED.'.

FULL DEPTH STIFFENER PLATES BETWEEN COLUMN FLANGES AT TOP & BOTTOM OF SHEAR PLATE. 3/8" @ W10 & SMALLER COLS. UNO. 1/2" @ W12 & W14 COLS. UNO. 5/8" @ W16 & W18 COLS. UNO.

W BEAM - SEE PLAN

12"  $\frac{1}{2}$ " TYP.

3" TYP.

6"

SHORT-SLOTTED HOLES IN SHEAR PLATE

SHEAR PL. - SEE SCHEDULE

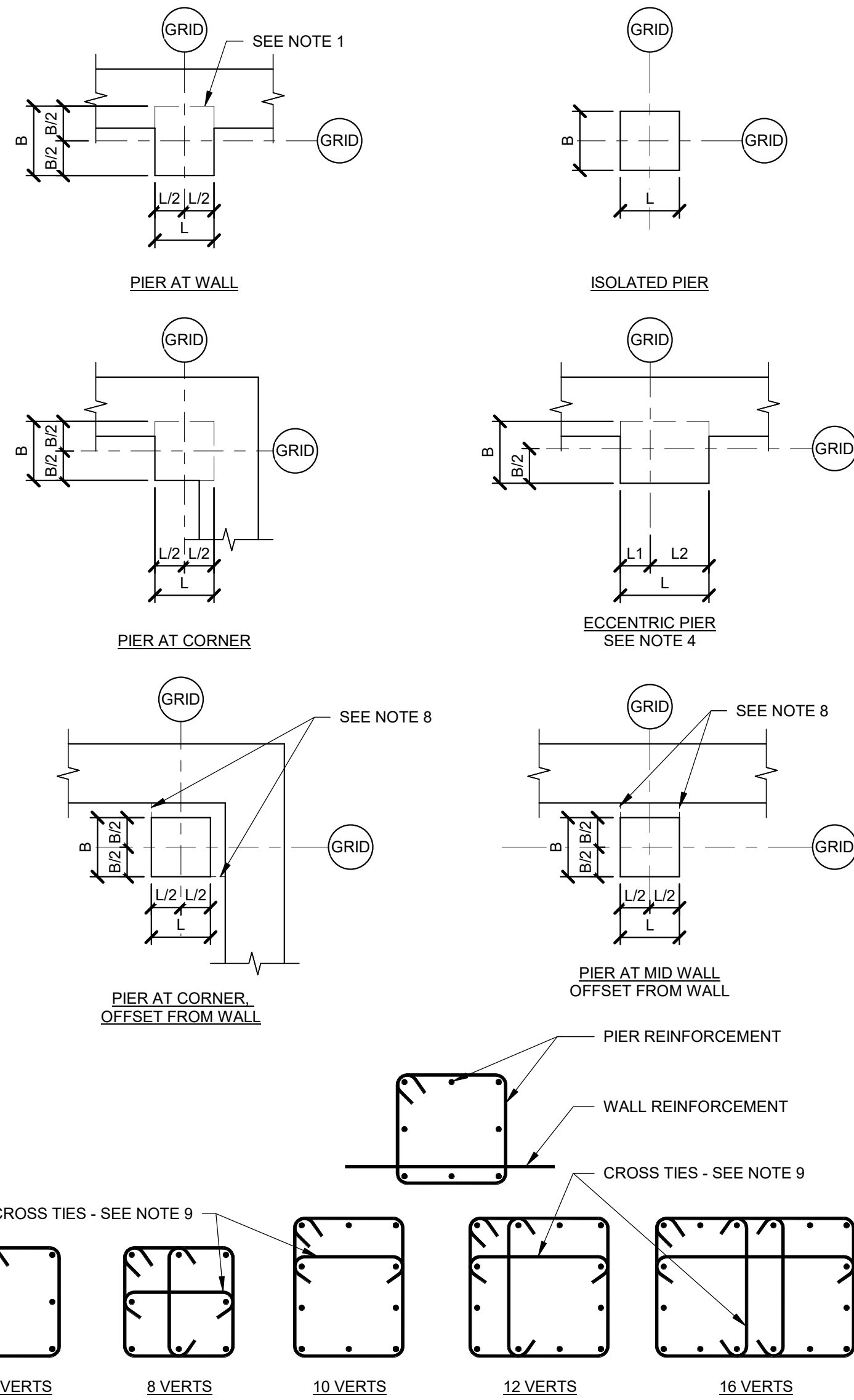
SEE SCHED.

BEAM DEPTH	SHEAR PLATE INFORMATION				BOLTS		WELD 'A'
	PL DIMENSIONS W/ SHORT- HOLES	Lev	Leh	No.	Ø SIZE		
C8, W8, W10	PL 3/8" x REQ'D	1 1/2"	2"	2	3/4"	1/4"	
W12, W14	PL 3/8" x REQ'D	1 1/2"	2"	3	7/8"	1/4"	
W16	PL 3/8" x REQ'D	1 3/4"	2"	4	1"	1/4"	
W18	PL 3/8" x REQ'D	1 3/4"	2"	5	1"	1/4"	
W21	PL 3/8" x REQ'D	1 3/4"	2"	6	1"	1/4"	
W24	PL 1/2" x REQ'D	1 3/4"	2"	7	1"	1/4"	
W27	PL 1/2" x REQ'D	1 3/4"	2"	7	1"	1/4"	
W30	PL 5/8" x REQ'D	2"	2 1/4"	8	1-1/8"	5/16"	
W33	PL 5/8" x REQ'D	2"	2 1/4"	9	1-1/8"	5/16"	
W36	PL 5/8" x REQ'D	2"	2 1/4"	10	1-1/8"	5/16"	

TYPE OF STANDARD HOOK	BAR SIZE	MIN. INSIDE BEND DIA. FOR STIRRUPS, TIES, AND HOOPS, in	STRAIGHT EXTENSION $\ell_{ex}$ FOR STIRRUPS, TIES, AND HOOPS in.	MIN. INSIDE BEND DIA. FOR OTHER BARS, in	STRAIGHT EXTENSION $\ell_{ex}$ FOR OTHER BARS in.	TYPE OF STANDARD HOOK
90° HOOK	#3 - #5	4d <sub>b</sub>	GREATER OF 6d <sub>b</sub> AND 3"	6d <sub>b</sub>	12d <sub>b</sub>	
	#6 - #8	6d <sub>b</sub>	12d <sub>b</sub>	8d <sub>b</sub>		
	#9 - #11	N/A	N/A	10d <sub>b</sub>		
	#14 - #18	N/A	N/A			
135° HOOK	#3 - #5	4d <sub>b</sub>	GREATER OF 6d <sub>b</sub> AND 3"	N/A	N/A	
	#6 - #8	6d <sub>b</sub>	GREATER OF 6d <sub>b</sub> AND 3"	N/A	N/A	
180° HOOK	#3 - #5	4d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 2.5"	6d <sub>b</sub>	GREATER OF 4d <sub>b</sub> AND 2.5"	
	#6 - #8	6d <sub>b</sub>		8d <sub>b</sub>		
	#9 - #11	N/A	N/A	10d <sub>b</sub>		
	#14 - #18	N/A	N/A			

[illegible]

MARK	SIZE (B x L)	B1	B2	L1	L2	VERT REINF. (NOTE 2)	TIES	COMMENTS
CP-1	20" x 20"	---	---	---	---	(8) #6	#3 @ 8"	(3 TIES IN TOP 5")
CP-2	28" x 48"	---	---	---	---	(18) #6	#3 @ 8"	(3 TIES IN TOP 5")
CP-3	28" x 48"	---	---	---	---	(18) #6	#3 @ 8"	(3 TIES IN TOP 5")
CP-4	28" x 36"	---	---	---	---	(12) #6	#3 @ 8"	(3 TIES IN TOP 5")



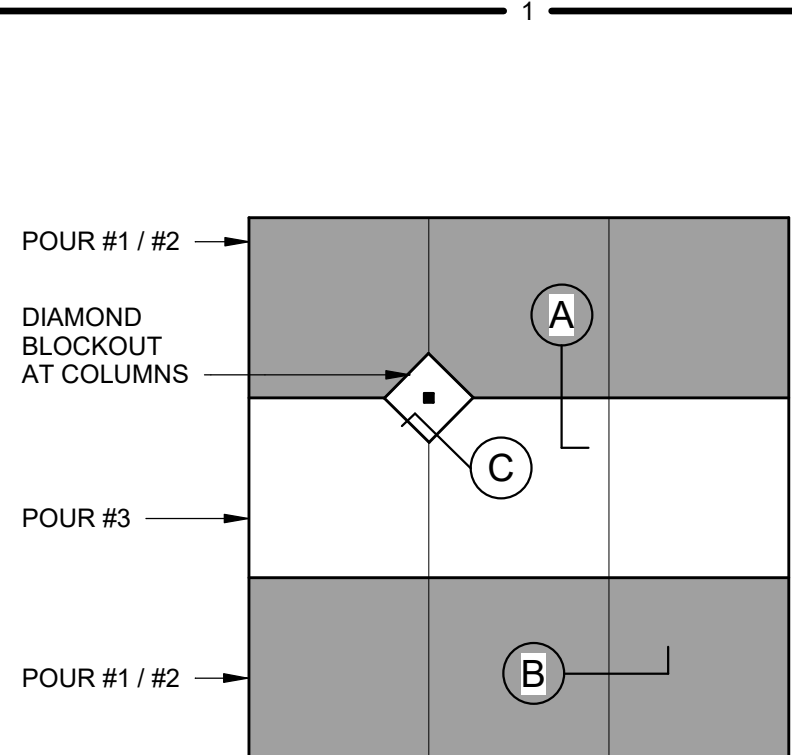
1. TOP OF PIER IS LOWER THAN TOP OF FOUNDATION WALL. BLOCK OUT FOUNDATION WALL AS REQUIRED FOR BASE PLATE CLEARANCE.
2. VERTICAL PIER REINFORCING TO BE UNIFORMLY SPACED AROUND PERIMETER, 2" CLEAR FROM OUTSIDE OF PIER.
3. TOP OF PIER ELEVATION IS 8" BELOW FINISHED FLOOR ELEVATION EXCEPT WHERE PIER (ELEV.) OTHERWISE NOTED.
4. WHERE PIER IS NOT SYMMETRICAL ABOUT GRIDLINES, REFER TO PLAN FOR BRACED FRAME LAYOUT AND RESPECTIVE DIRECTION OF OFFSET DIMENSIONS, WHERE PROVIDED.
5. ALL PIERS AT FOUNDATION WALLS ARE TO BE CONSTRUCTED MONOLITHICALLY WITH WALLS UNLESS NOTED OTHERWISE.
6. PIER REINFORCEMENT SHALL BE FABRICATED WITH SUFFICIENT SIZE SO THAT WALL REINFORCEMENT PASSES THROUGH PIER REINFORCEMENT.
7. WHERE SPEC MAY BE AND "L" DIMENSIONS ARE NOT PROVIDED, EDGE OF PIER EXTENDS TO EXTERIOR EDGE OF FOUNDATION WALL.
8. AT CONTRACTORS OPTION, WHERE PIERS ARE NEXT TO FOUNDATION WALLS BUT DO NOT TOUCH, THE CONCRETE MAY BE ATTENDED TO INCORPORATE PIER INTO WALL. KEEP REINFORCEMENT LOCATION AS IF PIER WAS NOT EXTENDED.
9. CROSS TIES SHALL BE PLACED AT EVERY OTHER VERTICAL BAR. WHERE THE SPACING OF THE VERTICAL BARS IS 18" OR GREATER, CROSS TIES SHALL BE PLACED AT EVERY SECOND VERTICAL BAR. WHERE THE SPACING OF VERTICAL REINFORCEMENT IS SPACED MORE THAN 6" O.C.

REV	DATE	DESCRIPTION
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**S003**



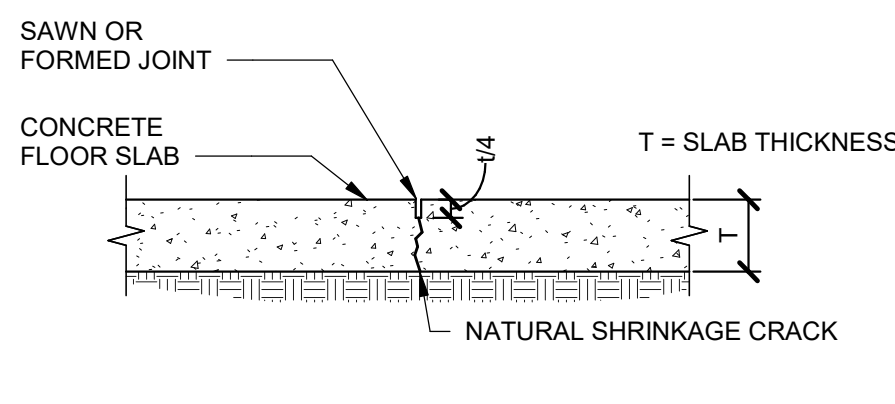
12/15/2025 11:25:58 AM Autodesk Docs/250955.00 - Life Time Fitness - Herman UT's - 250950 - LifeTime Fitness Herman - 2025 UT



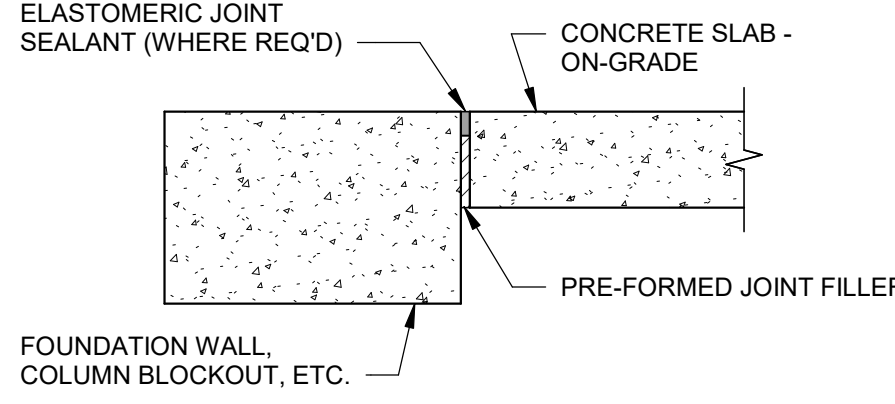
NOTES:  
1. SEE PLAN FOR SLAB THICKNESS 'T' AND REINFORCING SIZE AND SPACING.

NOTE: THICKENING OF SLAB NOT REQUIRED FOR SLABS WITH T = 6" OR GREATER

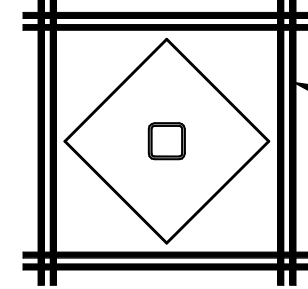
CONSTRUCTION JOINT (A)  
SCALE: NONE



CONTROL JOINT (B)  
SCALE: NONE

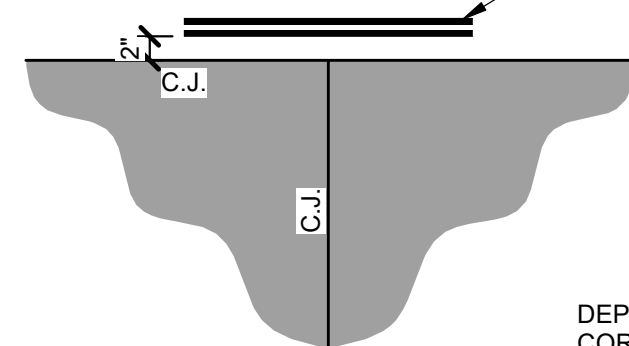


TYPICAL ISOLATION JOINT (C)  
SCALE: NONE



PLAN VIEW

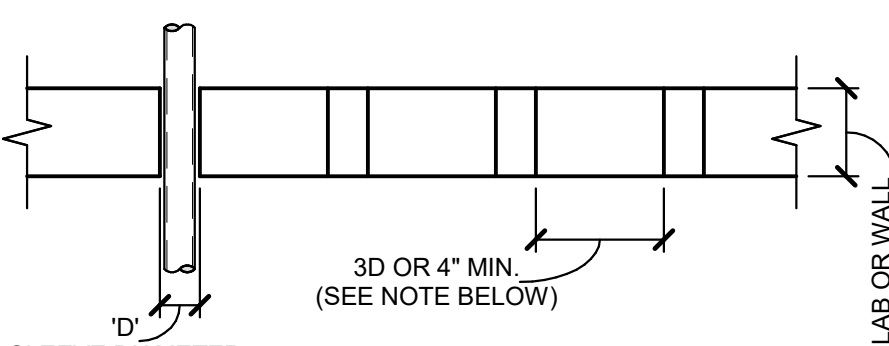
(2) #4 x 4'-0" BARS SHALL BE PLACED IN THE SLAB WHERE CONTROL OR CONSTRUCTION JOINTS DO NOT EXTEND FROM THE CORNERS OF COLUMN BLOCK-OUTS IN SLABS



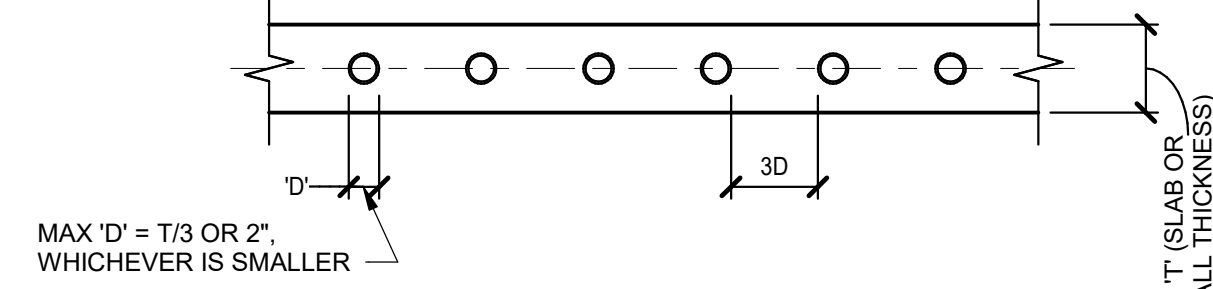
PLAN VIEW

(2) #4 x 4'-0" BARS SHALL BE PLACED IN THE SLAB WHERE CONTROL OR CONSTRUCTION JOINTS INTERSECT ONE ANOTHER BUT DO NOT CONTINUE PAST THE JOINT

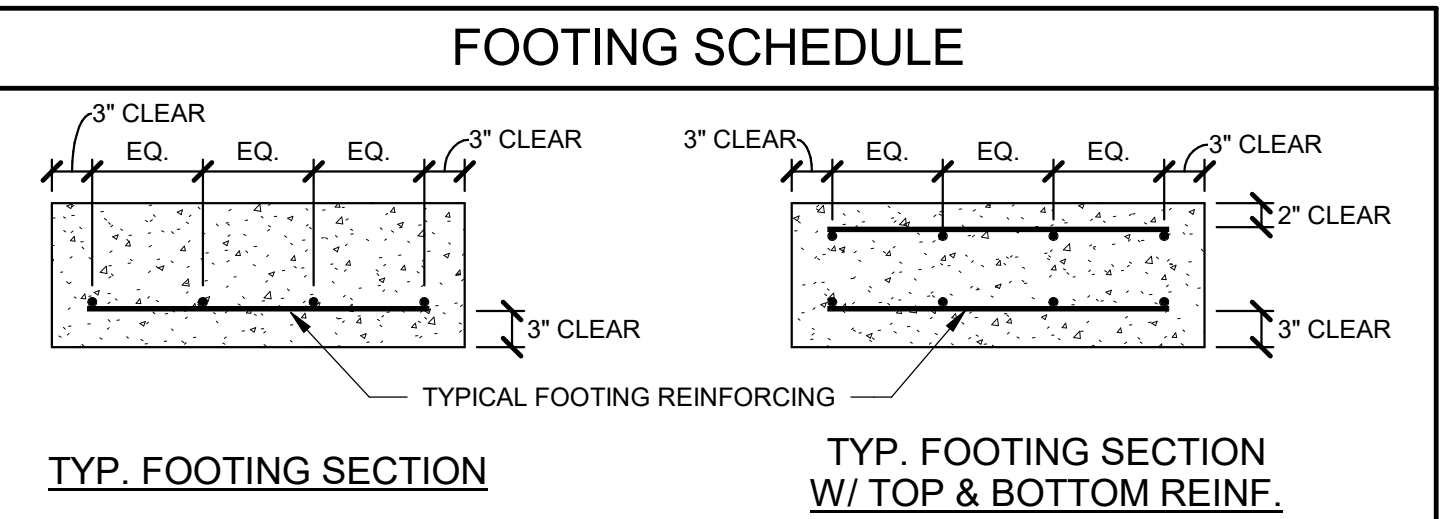
PLAN VIEW



PIPING / CONDUIT THRU SLAB OR WALL



PIPING / CONDUIT IN SLAB OR WALL



TYP. FOOTING SECTION  
TYP. FOOTING SECTION W/ TOP & BOTTOM REIN.

NOTE: REINFORCE TOP AND BOTTOM AT ALL BRACE FRAME COLUMN FOOTINGS.

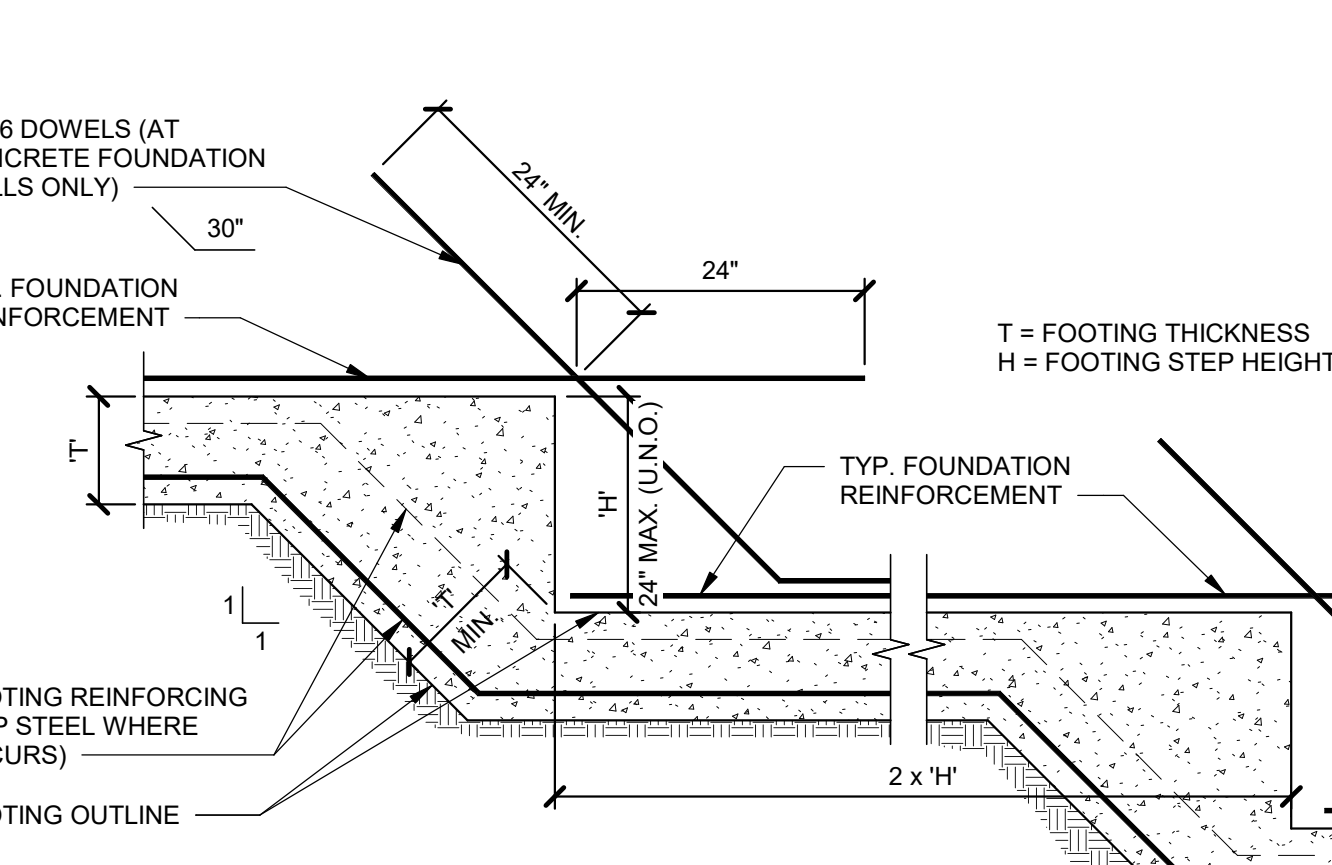
MARK	WIDTH	LENGTH	THICK	LENGTHWISE REINF.	CROSSWISE REINF.	REMARKS
FC3	3'-0"	CONT.	1'-0"	(3) #5		
FC4	4'-0"	CONT.	1'-0"	(4) #5		
FC12	12'-0"	CONT.	3'-0"	(12) #8	#8 @ 12" o.c.	
F3	3'-0"	3'-0"	1'-0"	(3) #5	(3) #5	
F4	4'-0"	4'-0"	1'-0"	(4) #5	(4) #5	
F4.5	4'-6"	4'-6"	1'-0"	(4) #5	(4) #5	
F6.5	6'-6"	6'-6"	1'-2"	(7) #5	(7) #5	
F7	7'-0"	7'-0"	1'-2"	(7) #6	(7) #6	
F7.5	7'-6"	7'-6"	1'-2"	(7) #6	(7) #6	
F8	8'-0"	8'-0"	1'-4"	(9) #6	(9) #6	
F9	9'-0"	9'-0"	1'-6"	(9) #6	(9) #6	
F10.5	10'-6"	10'-6"	1'-8"	(10) #7	(10) #7	
F12.5	12'-6"	12'-0"	2'-0"	(12) #7	(12) #7	
F13	13'-0"	12'-0"	2'-2"	(12) #7	(12) #7	
F13.5	13'-6"	12'-0"	2'-2"	(12) #7	(12) #7	
F14	14'-0"	12'-0"	2'-4"	(12) #7	(12) #7	
F14.5	14'-6"	12'-0"	2'-4"	(12) #7	(12) #7	
F15	15'-0"	12'-0"	2'-6"	(12) #7	(12) #7	
F15.5	15'-6"	9'-0"	2'-8"	(9) #5	(5) #5	
F16	16'-0"	12'-0"	2'-8"	(12) #7	(12) #7	
F16.5	16'-6"	12'-0"	2'-8"	(12) #7	(12) #7	
F17	17'-0"	12'-0"	2'-10"	(12) #7	(12) #7	
F18	18'-0"	12'-0"	3'-0"	(12) #7	(12) #7	
F18.5	18'-6"	12'-0"	3'-0"	(12) #7	(12) #7	
F20	20'-0"	12'-0"	3'-4"	(12) #7	(12) #7	
FS14.5	14'-6"	12'-0"	4'-0"	(15) #10	(15) #10	REINF TOP & BOTTOM
F19	19'-0"	12'-0"	3'-2"	(12) #7	(12) #7	

TYPICAL CONCRETE SLAB JOINTS  
SCALE: NONE

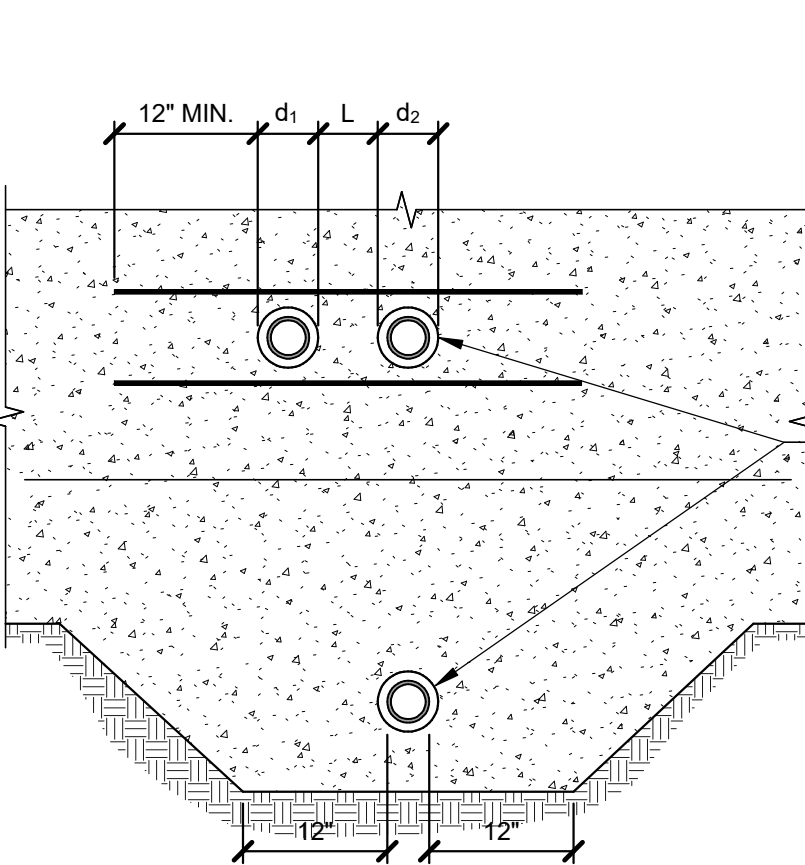
TYPICAL CONTROL JOINT DETAIL  
SCALE: NONE

TYPICAL PIPING/CONDUIT AT SLAB OR WALL  
SCALE: NONE

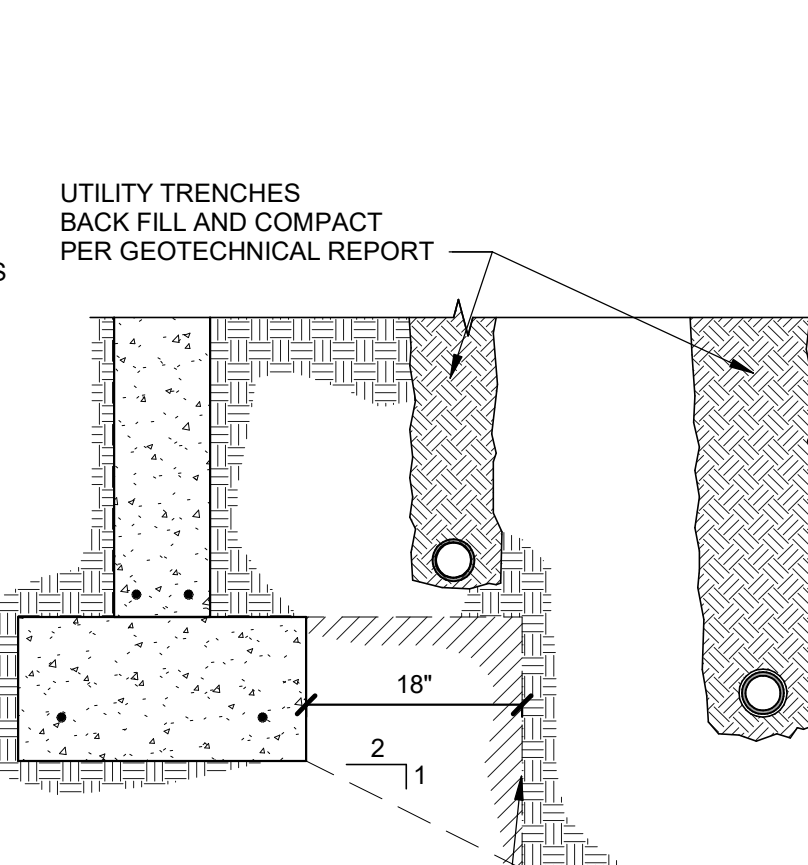
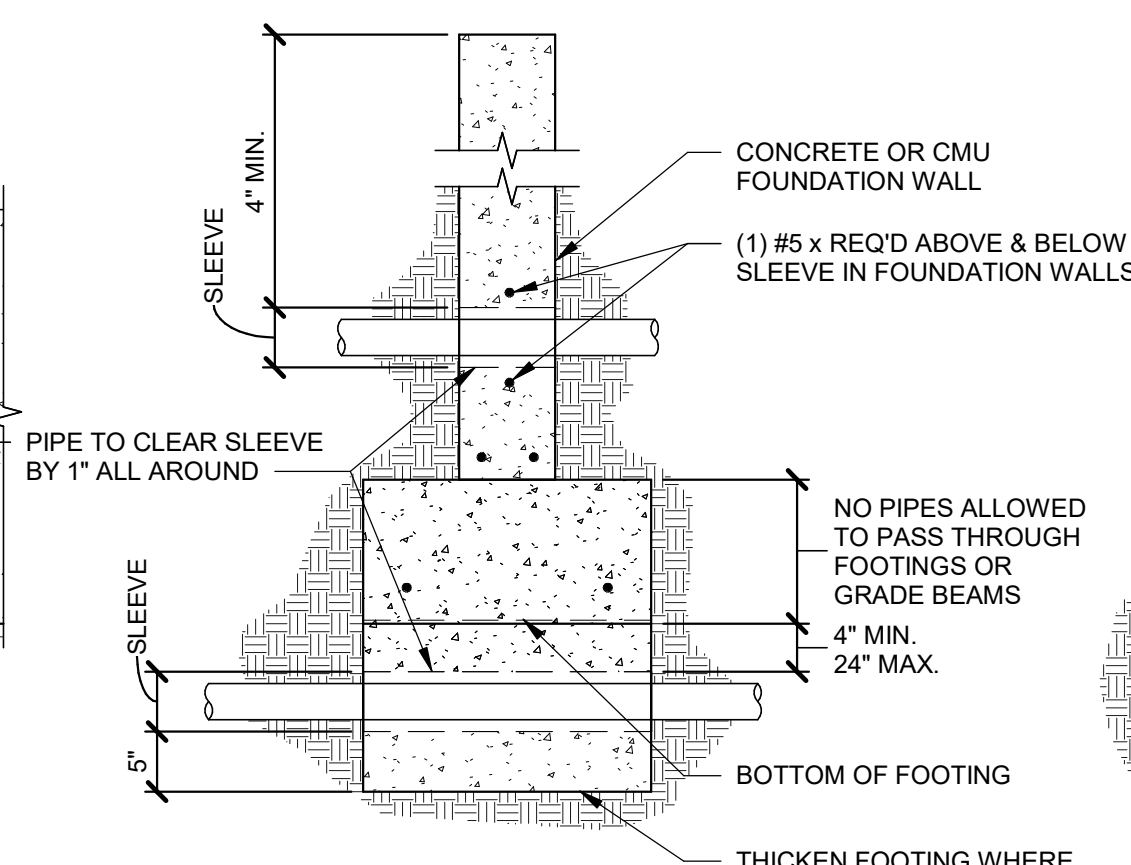
3  
S004



NOTES:  
1. FOUNDATION REINFORCING NOT SHOWN FOR CLARITY.  
2. SEE FOOTING SCHEDULE FOR FOOTING WIDTH AND REINFORCING SIZE AND LOCATION. ALL FOOTING REINFORCING REFERENCED IN THE SCHEDULE OR SHOWN IN THE DETAILS MUST RUN CONTINUOUS THROUGH THE FOOTING STEP.



NOTES:  
1. TYPICAL FOUNDATION WALL REINFORCING NOT SHOWN FOR CLARITY.  
2. FOR OPENINGS LARGER THAN 12" IN ANY DIRECTION, SEE STRUCTURAL NOTE E-7.  
3. DETAIL IS SIMILAR TO MASONRY FOUNDATION WALLS.  
4. DISTANCE 'L' SHALL BE THE GREATER OF (d1 + d2)/2 OR 4'.



PIPE CROSSING FOOTING / FOUNDATION WALL  
PIPE PARALLEL TO FOOTING

TYPICAL REINFORCING @ INTERSECTIONS IN CONCRETE DETAIL  
SCALE: NONE

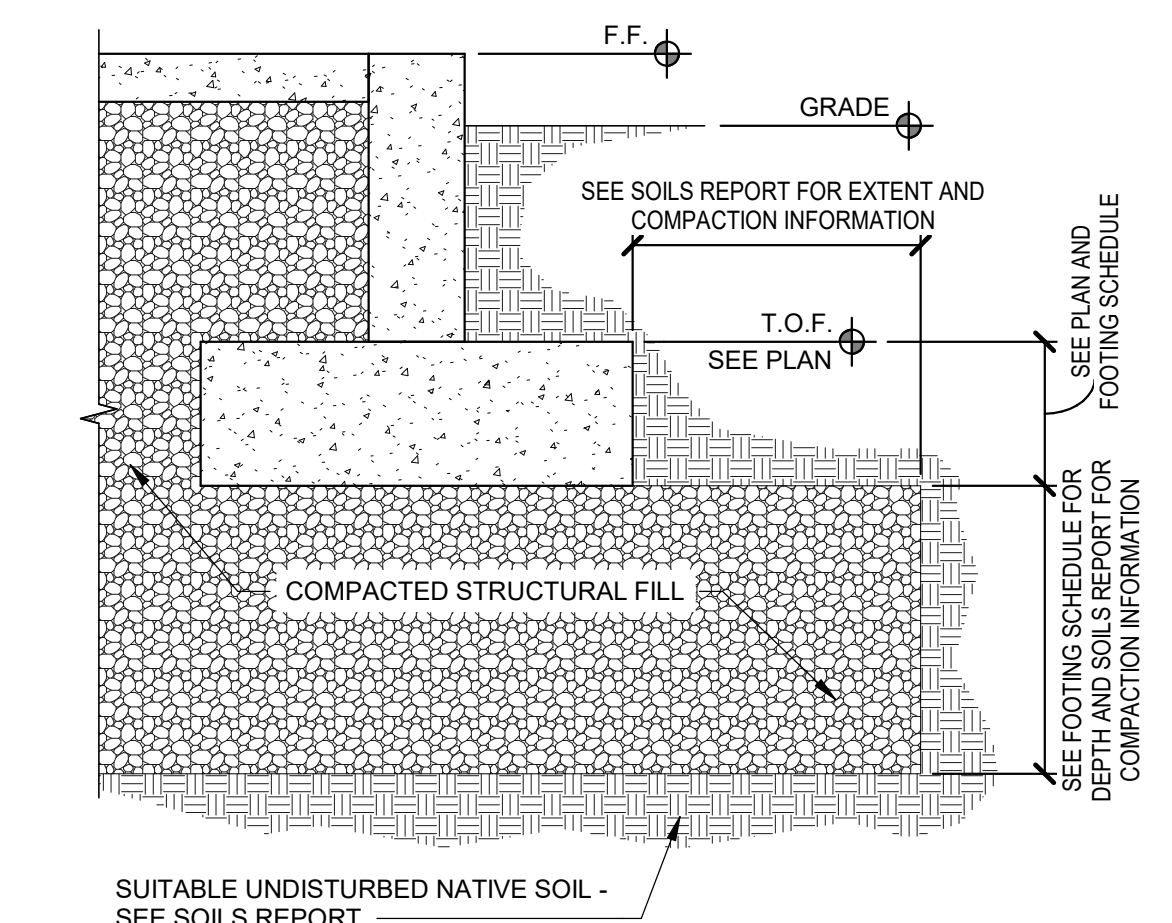
NOTE: THIS DOES NOT APPLY TO BRACE FRAME COLUMNS. SEE SHEET S003 FOR BRACE FRAME ANCHORAGE DETAILS.

6  
S004

TYPICAL STEPPED FOOTING  
SCALE: NONE

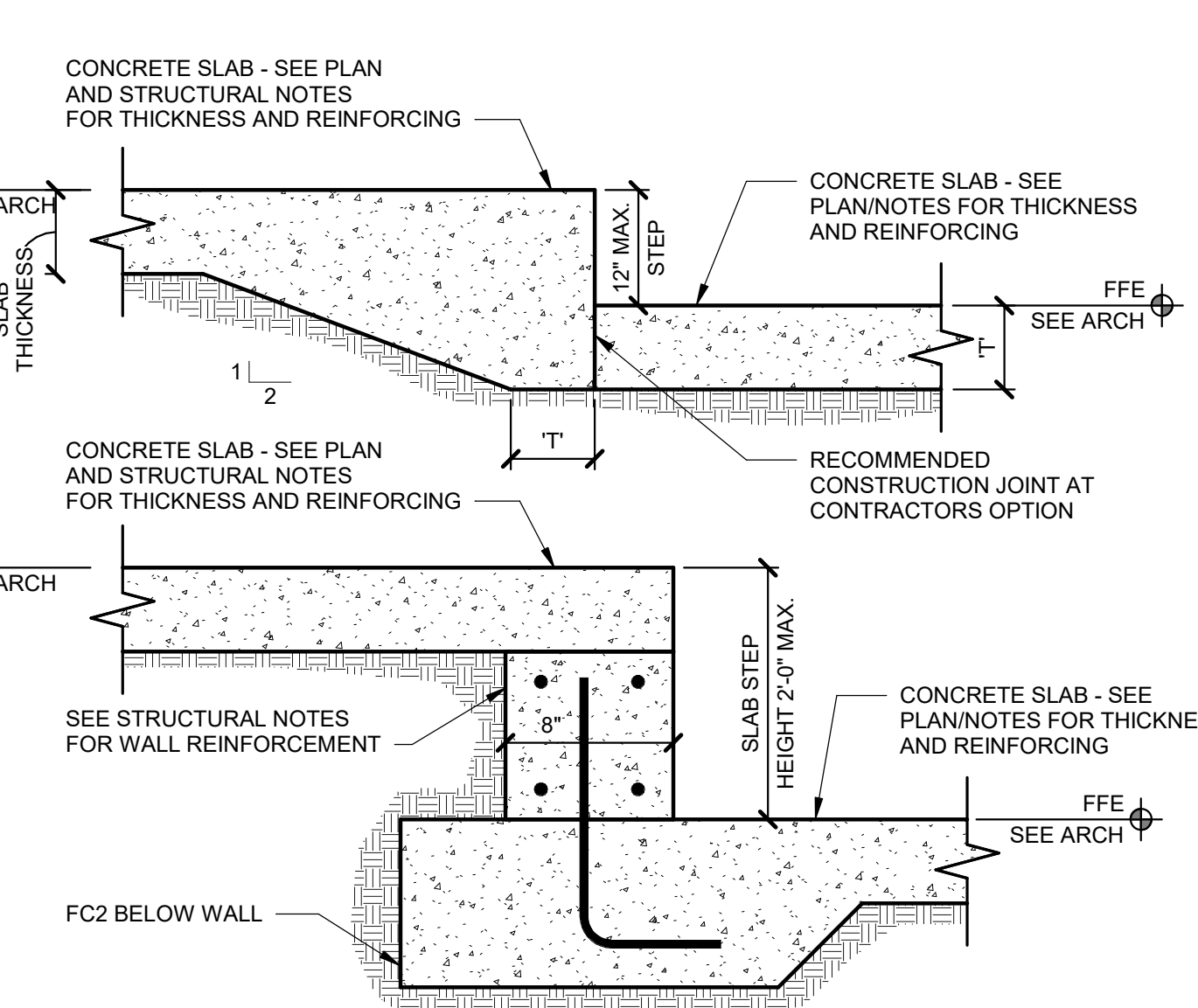
ALLOWABLE PIPING LOCATIONS @ FOOTING DETAIL  
SCALE: NONE

5  
S004



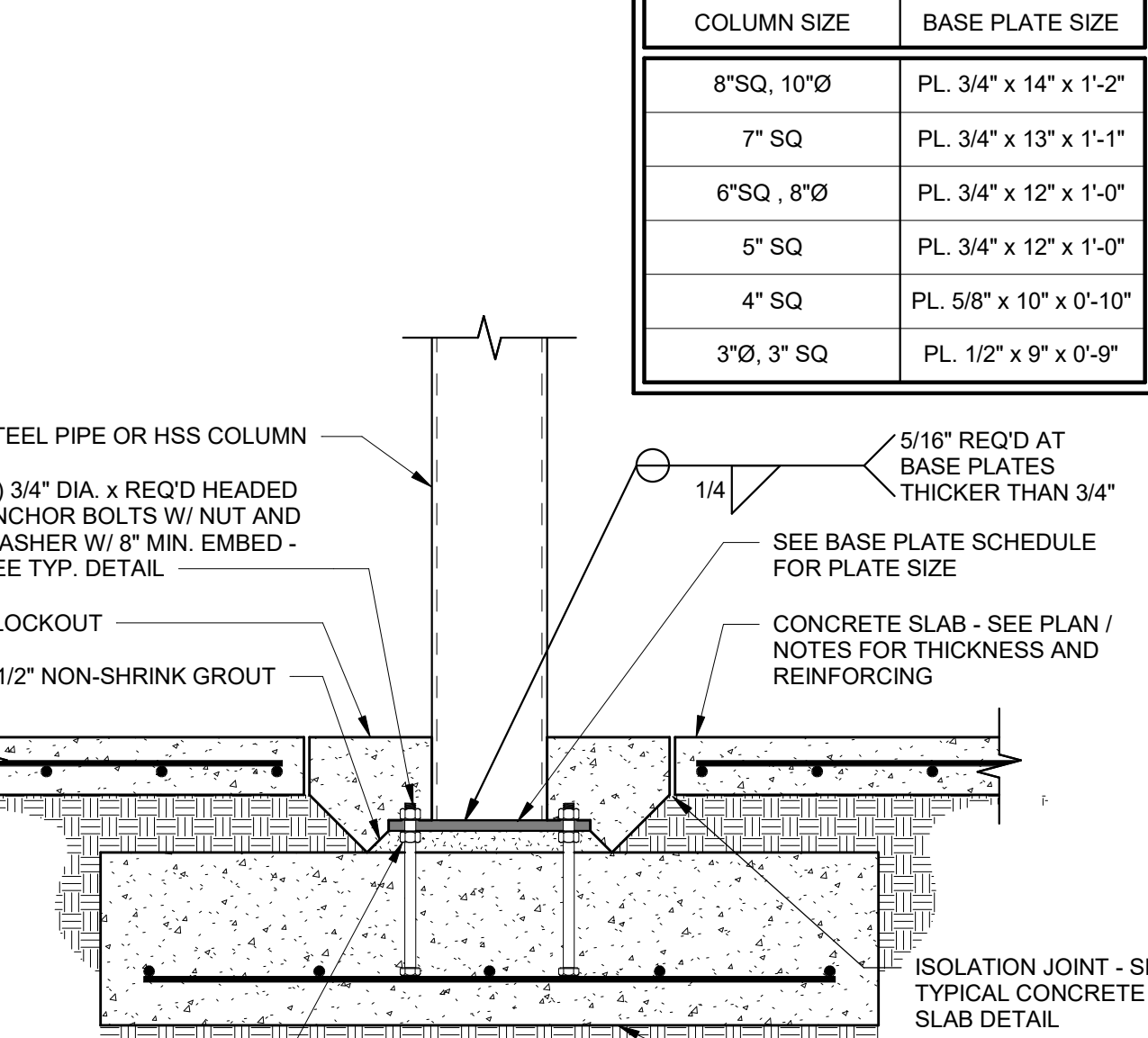
TYP. FOOTING OVER COMPACTED STRUCTURAL FILL  
SCALE: NONE

8  
S004



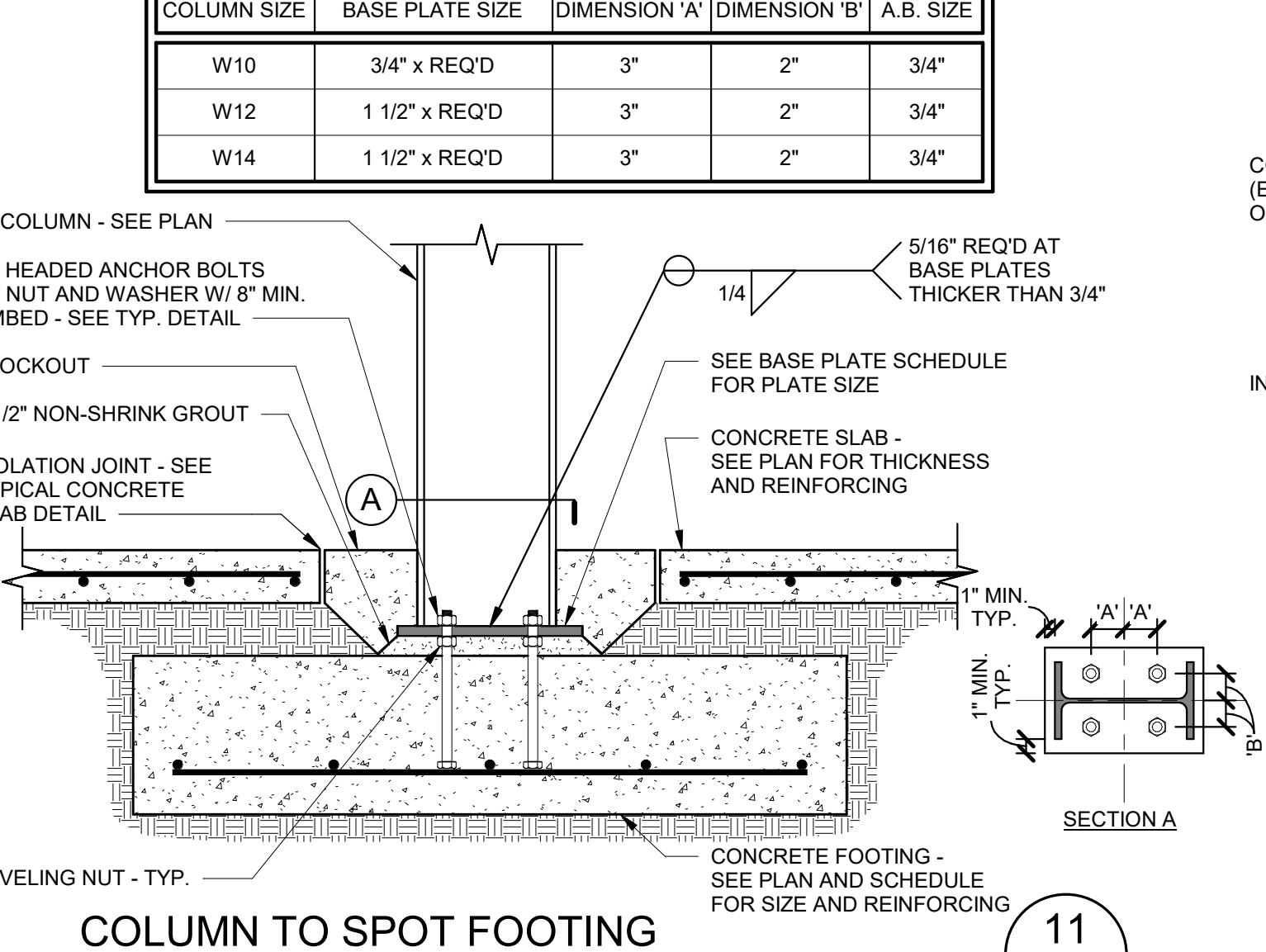
TYPICAL RECESSED SLAB  
SCALE: NONE

9  
S004



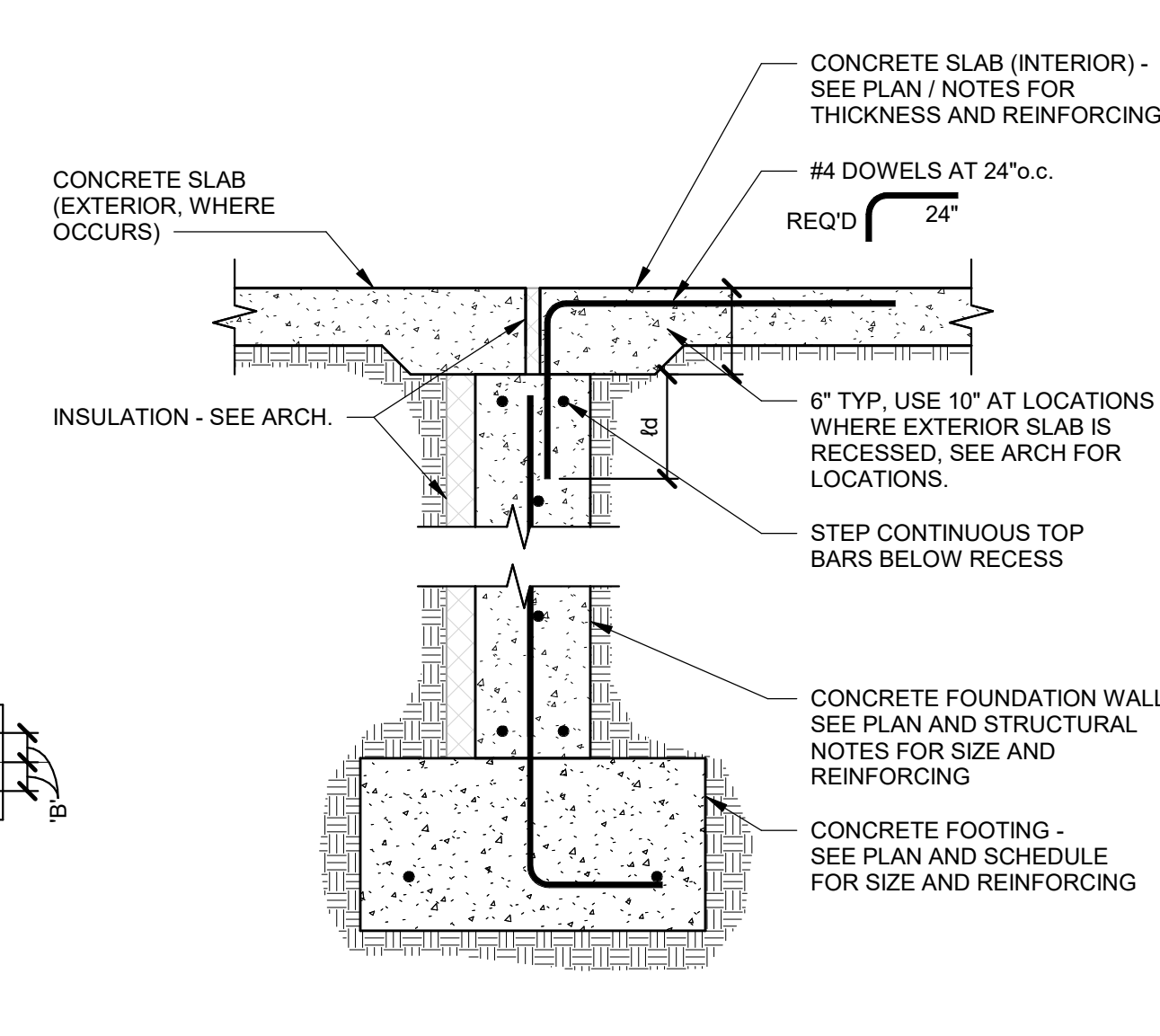
COLUMN TO SPOT FOOTING  
SCALE: NONE

10  
S004



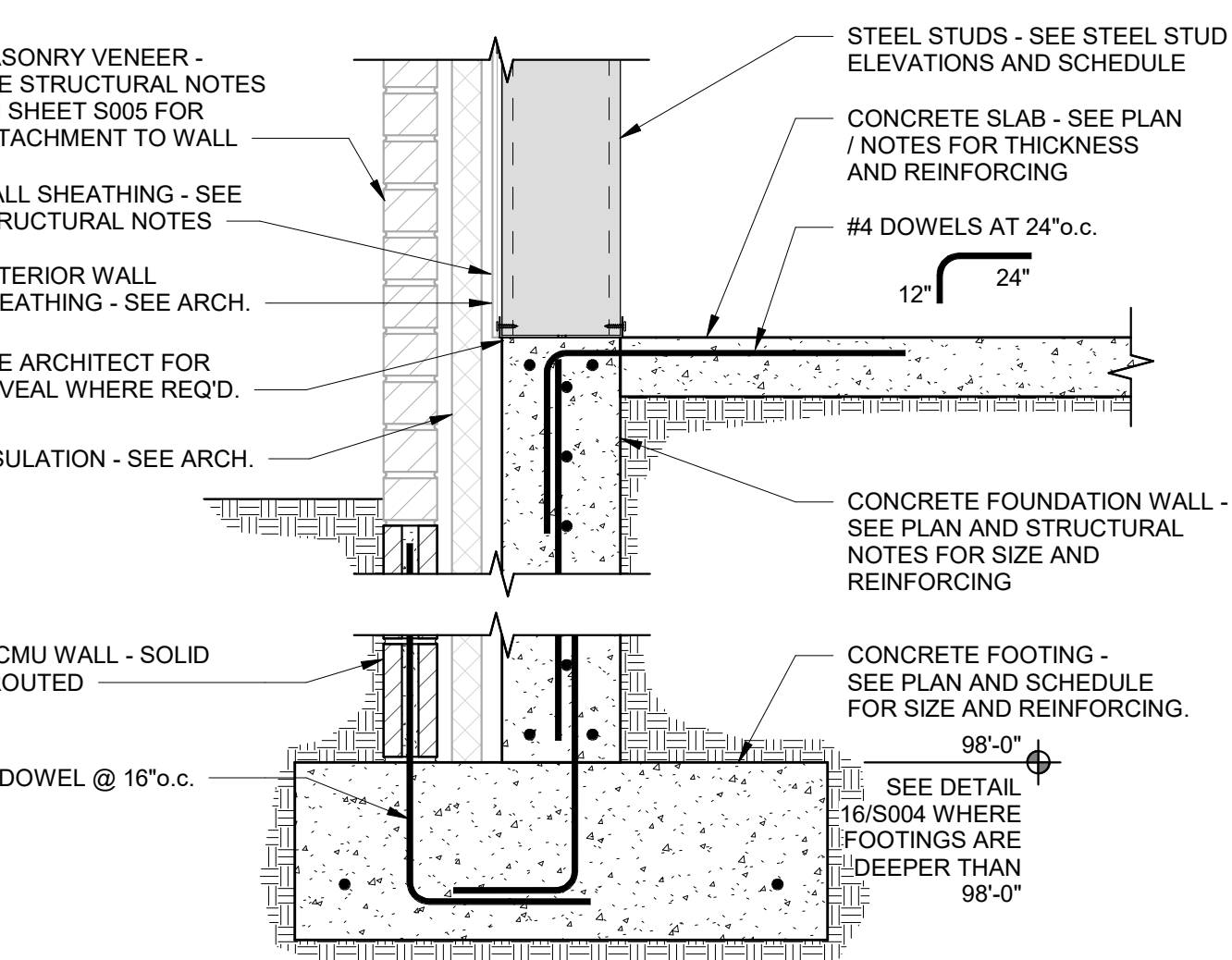
COLUMN TO SPOT FOOTING  
SCALE: NONE

11  
S004



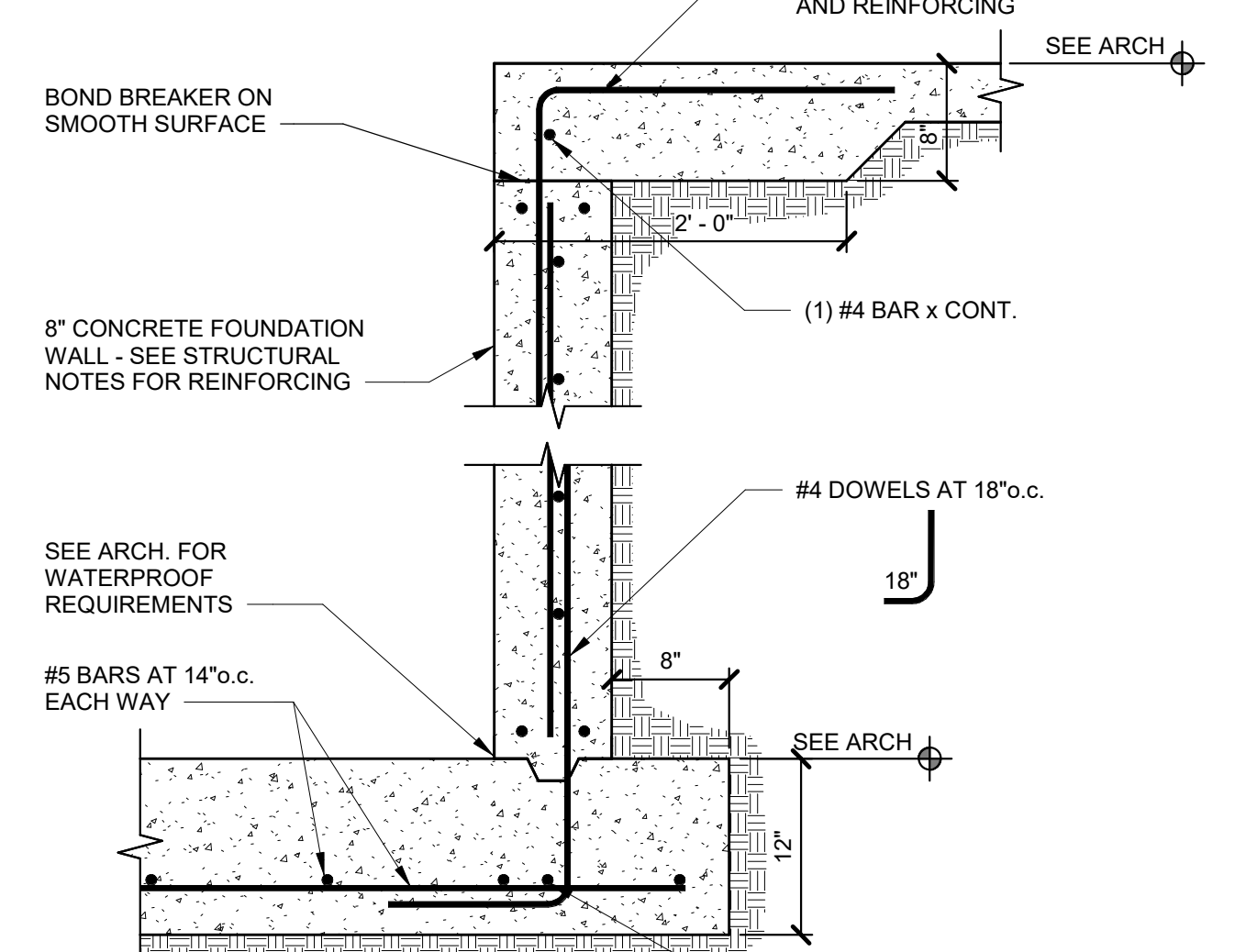
CONCRETE FOUNDATION @ OPENING  
SCALE: NONE

12  
S004



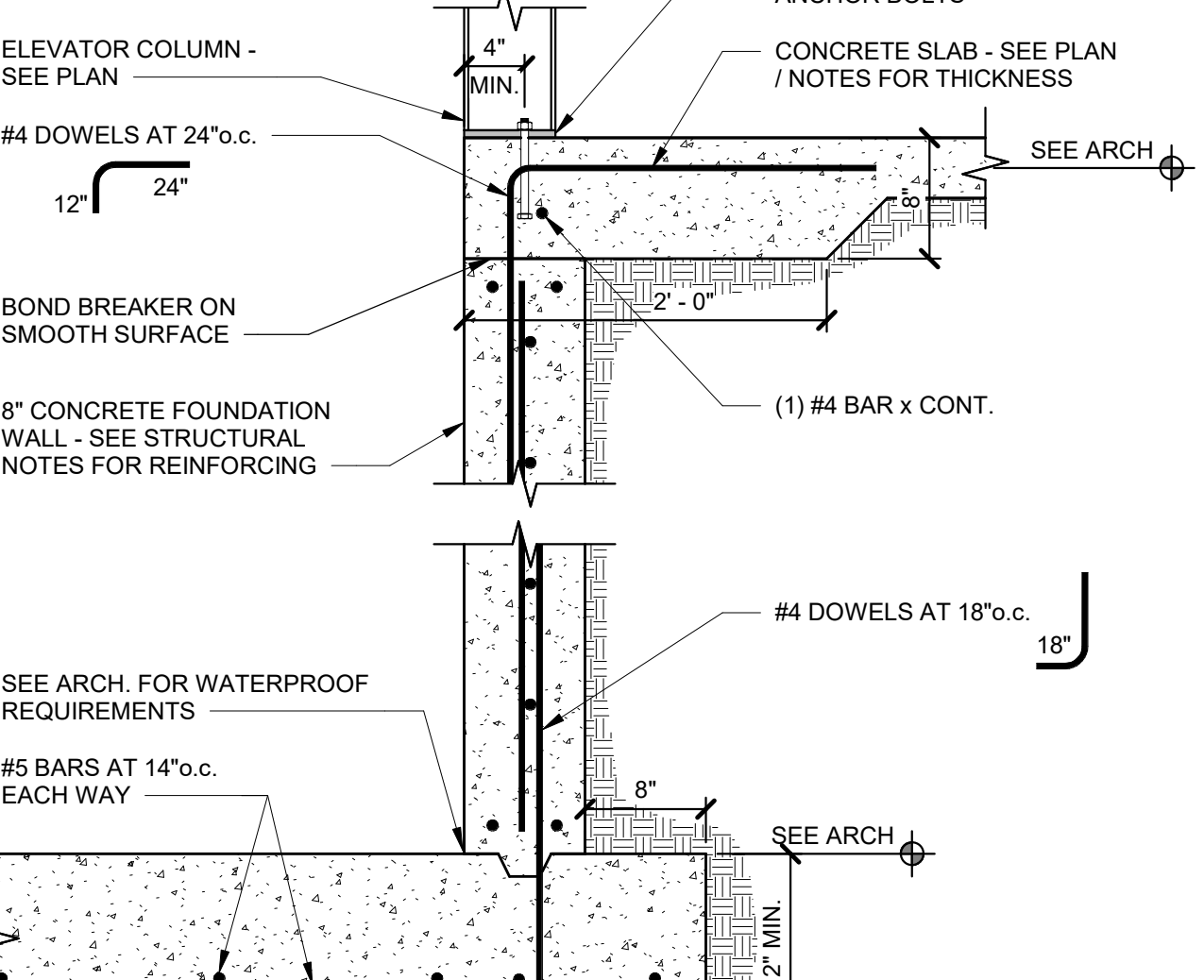
SECTION @ EXTERIOR WALL  
SCALE: NONE

13  
S004



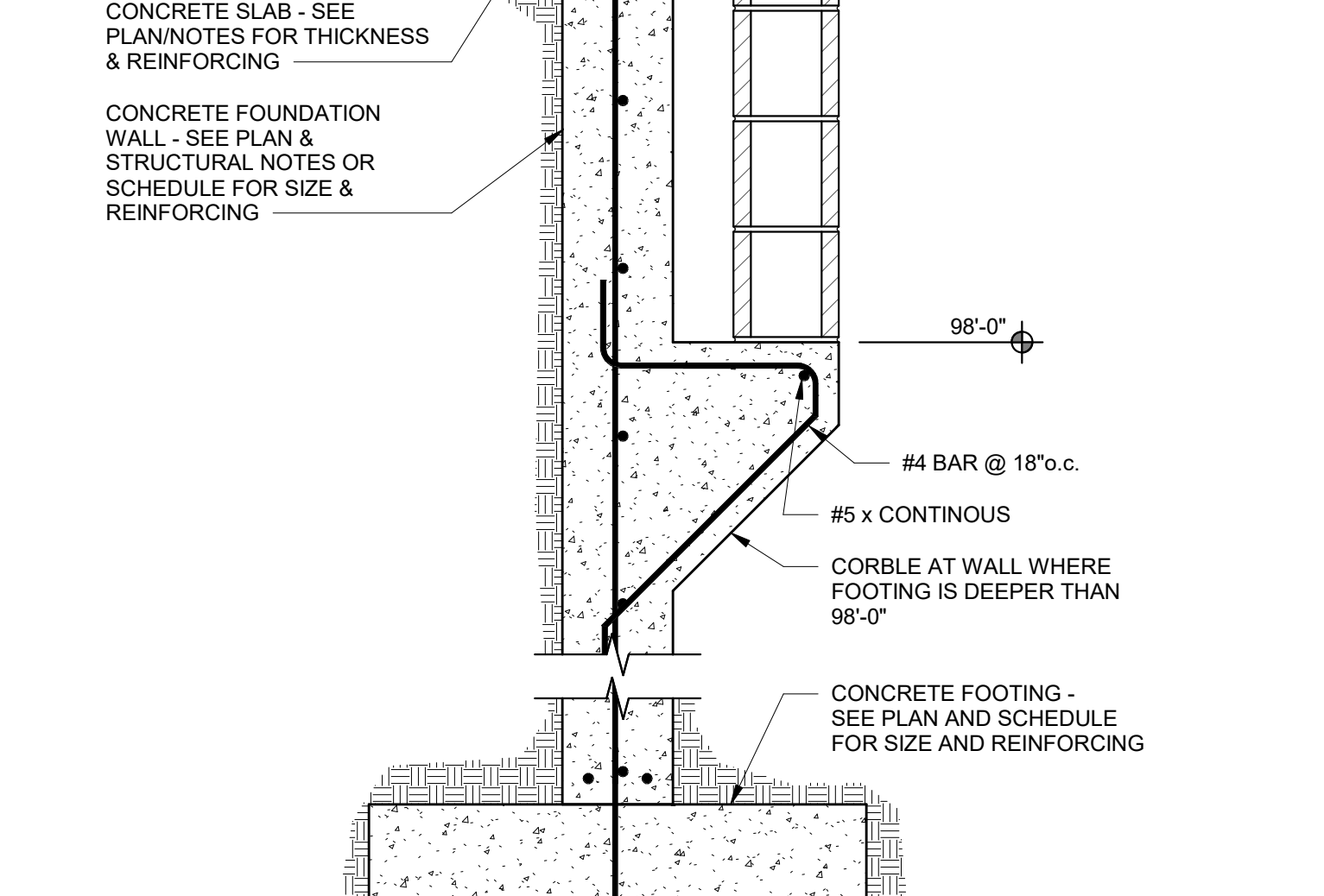
SECTION @ ELEVATOR PIT  
SCALE: NONE

14  
S004



SECTION @ ELEVATOR PIT  
SCALE: NONE

15  
S004



DETAIL  
SCALE: NONE

16  
S004

VOCBO

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LAIE, HI  
  
524 SOUTH 600 EAST  
SALT LAKE CITY, UT 84102  
(801) 575-8800  
VOCBO.COM  
  
VOCBO NUMBER: Project Number  
DATE: 12-17-2025

ARW ENGINEERS

103960622003  
Ark  
Higgs  
STATE OF UTAH  
6/10/15

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REV 1

DATE 20250926

DESCRIPTION Addendum 001

HERRIMAN, UT

4684 W 12600 S  
RIVERTON, UT 84096  
BID SET

TYPICAL FOUNDATION DETAILS

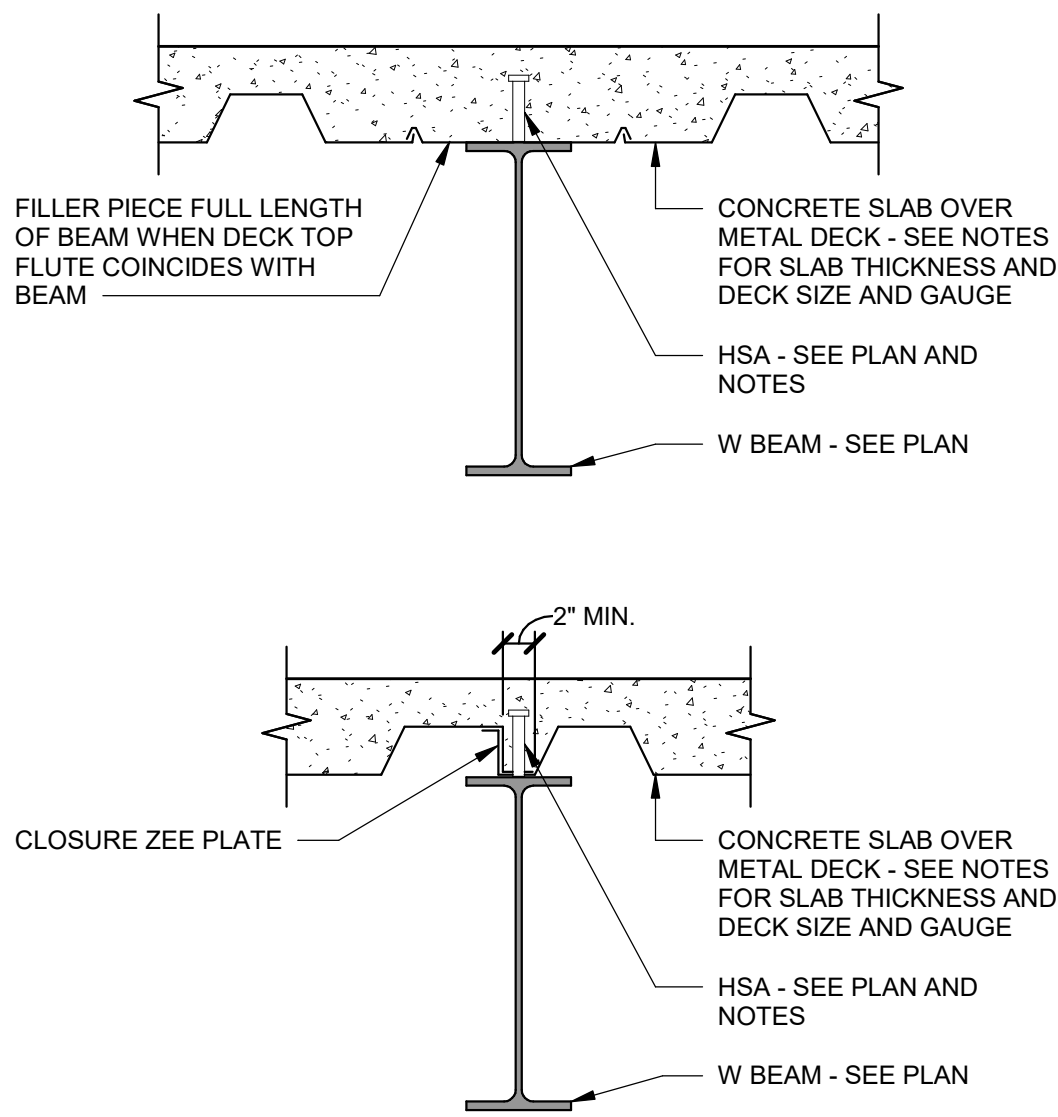
S004





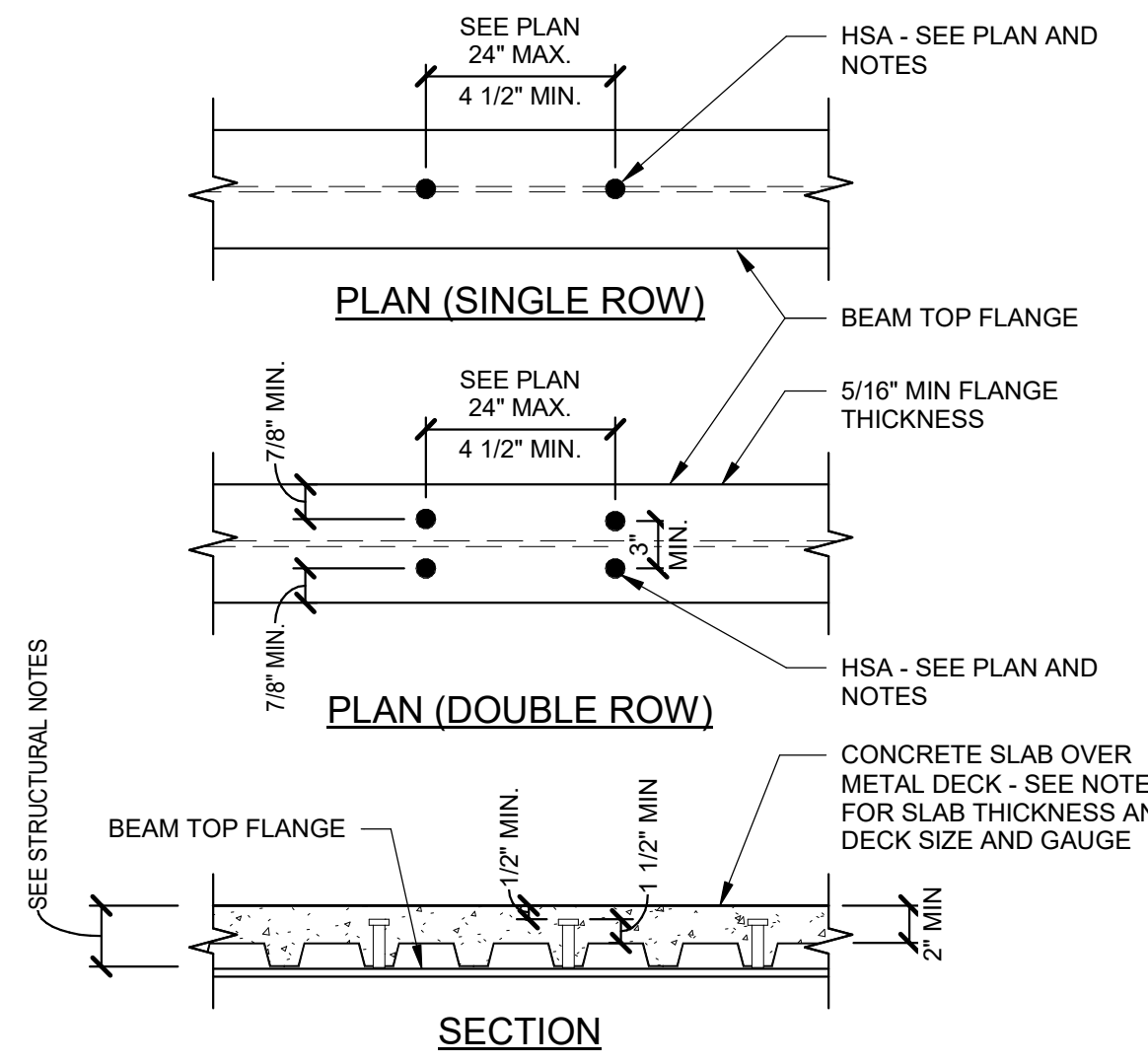


12/15/2025 11:25:59 AM Autodesk Docs/259955.00 - Life Time Fitness - Herriman UT/5 - 25990 - LifeTime Fitness Herriman - 2025.01

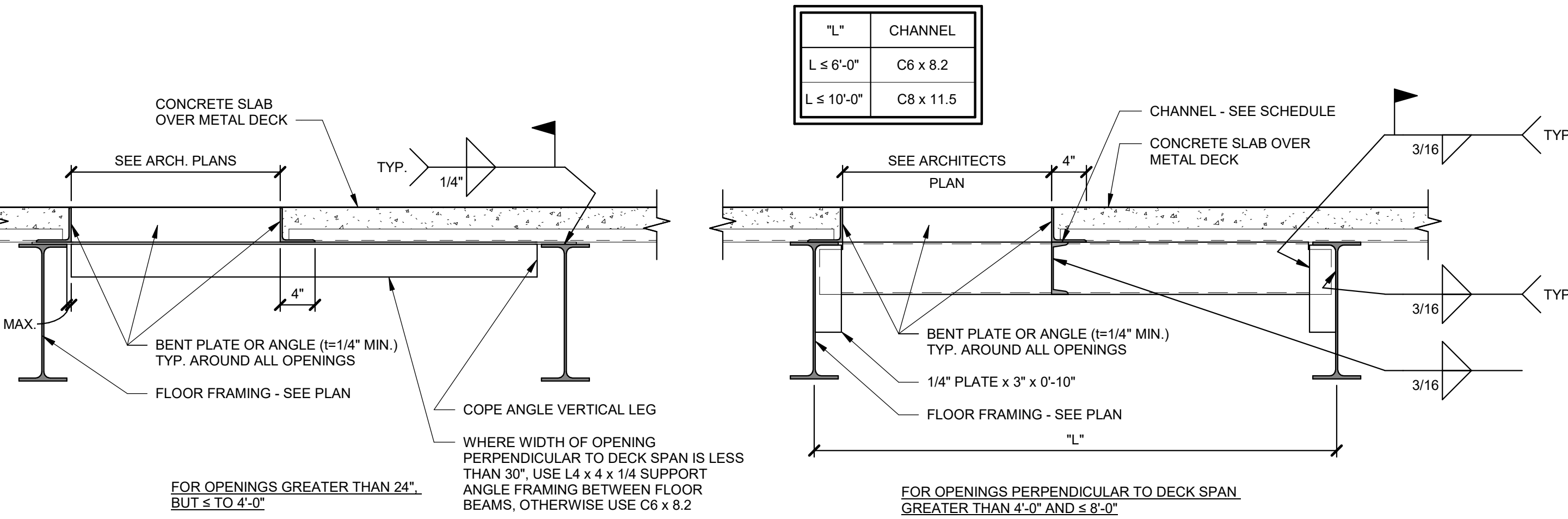


COMPOSITE FLOOR DETAIL

SCALE: NONE



- NOTES:
1. 1" OUTSIDE DIAMETER MAXIMUM CONDUIT SIZE.
  2. CONDUIT SHALL NOT CROSSOVER.
  3. CONDUIT SHALL HAVE 3/4" MINIMUM CONCRETE COVER.
  4. MAINTAIN 1" CLEAR BETWEEN THE CONDUIT AND THE DECK.
  5. CONDUIT SHALL NOT BE PLACED IN DECK FLUTES WITH REINFORCING STEEL OR HSAs.
  6. CONDUIT SHALL NOT BE PLACED IN CONCRETE SLABS USED TO OBTAIN A FIRE RATING.

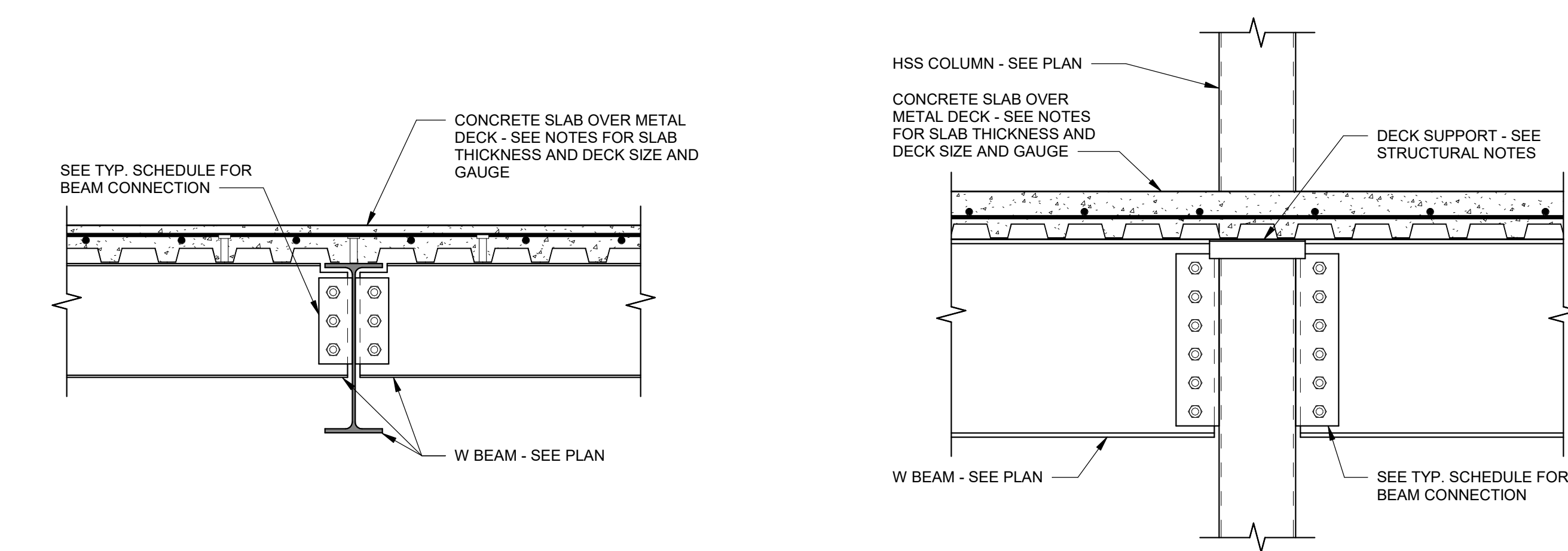


FLOOR OPENING DETAIL

SCALE: NONE

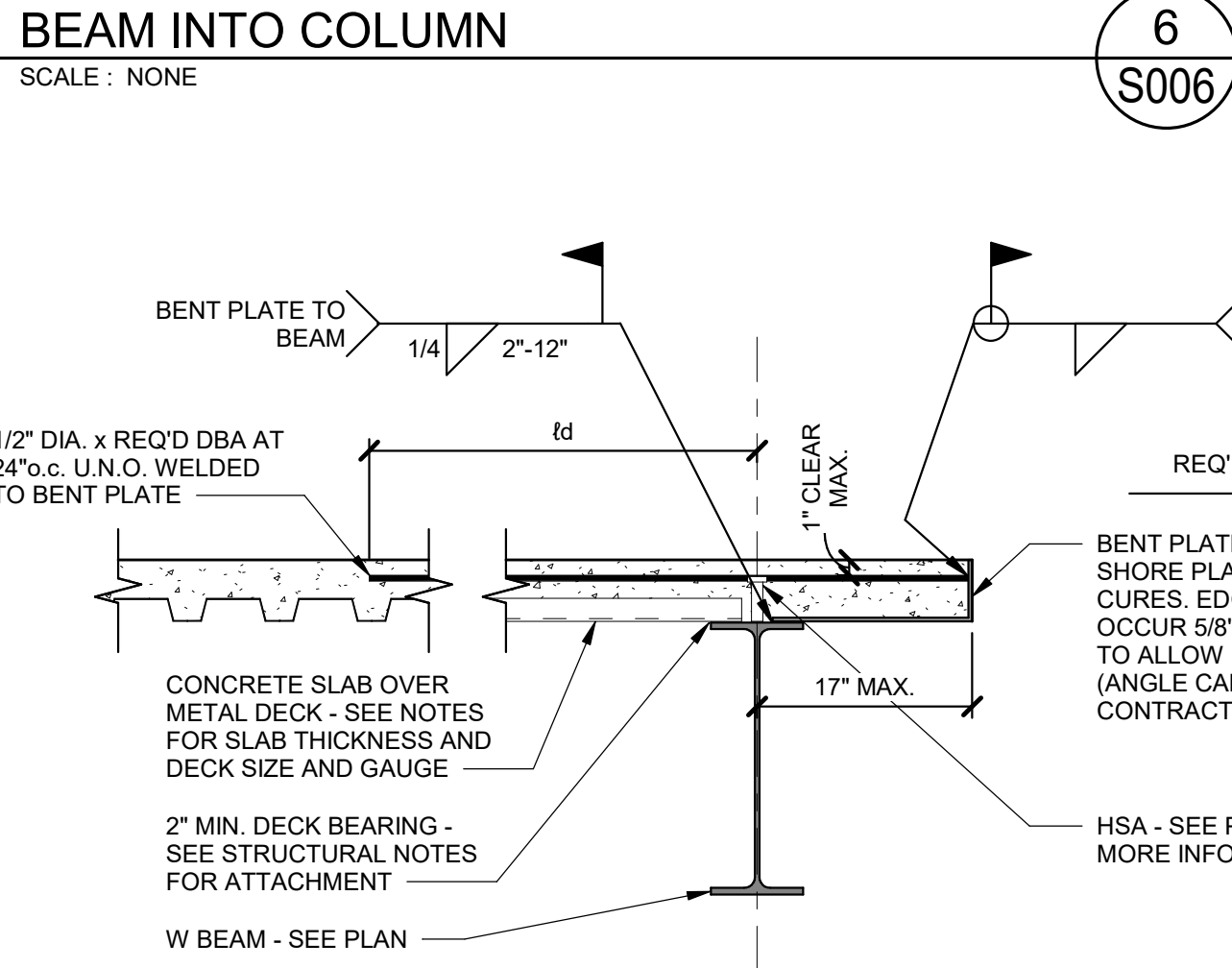
TYPICAL ELEVATOR COLUMN AT SUSPENDED SLAB

SCALE: NONE



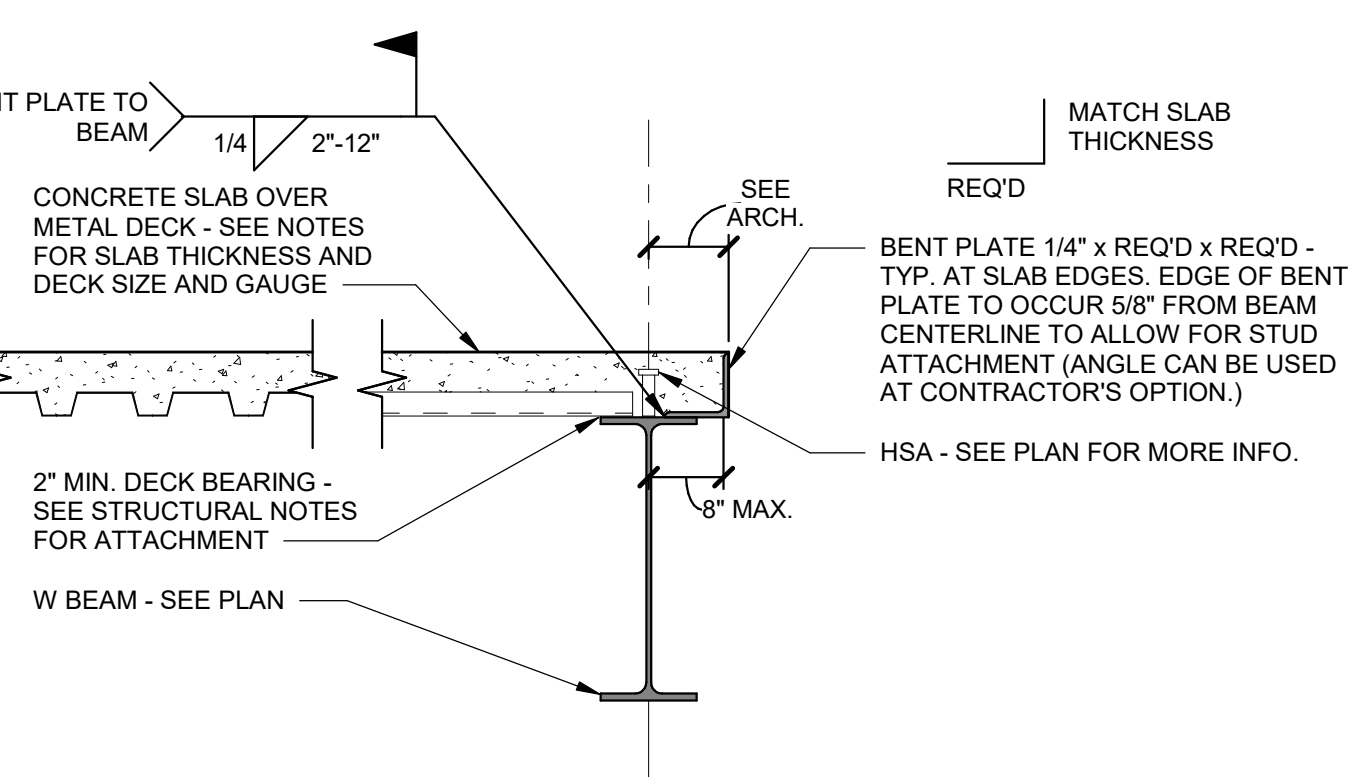
BEAMS INTO GIRDER

SCALE: NONE



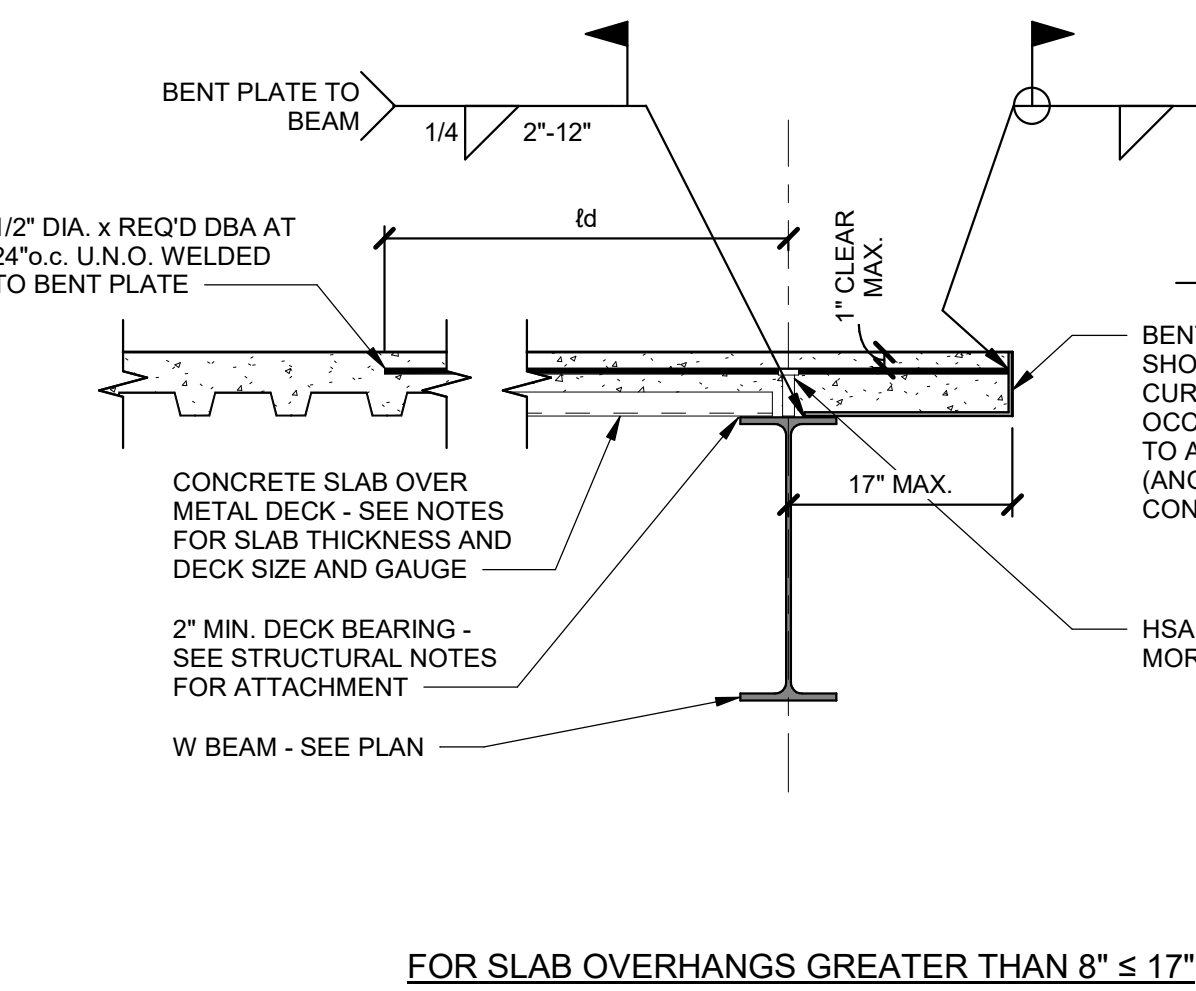
BEAM INTO COLUMN

SCALE: NONE

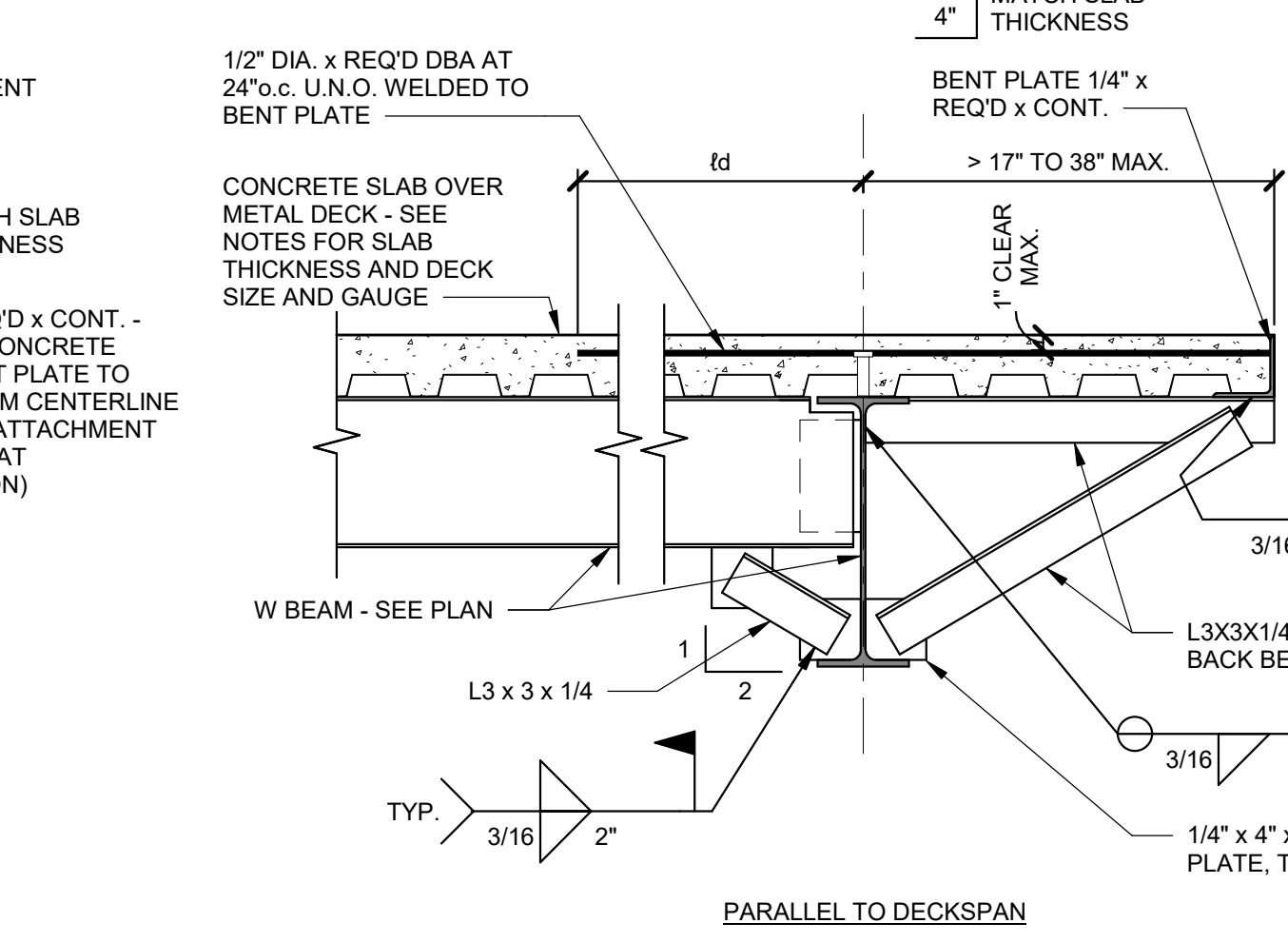


TYPICAL SLAB EDGE DETAIL

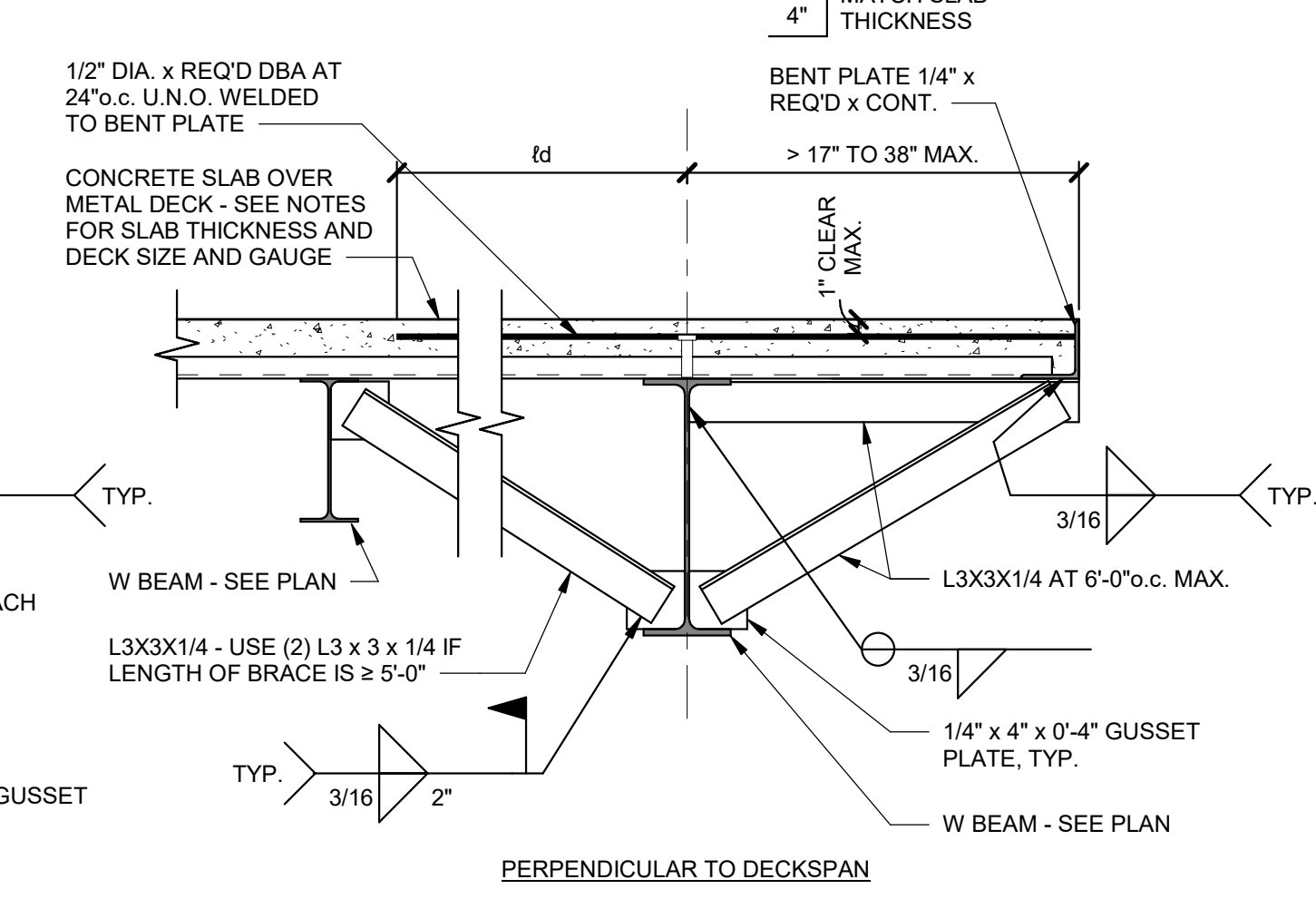
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FOR SLAB OVERHANGS GREATER THAN 8" ≤ 17"

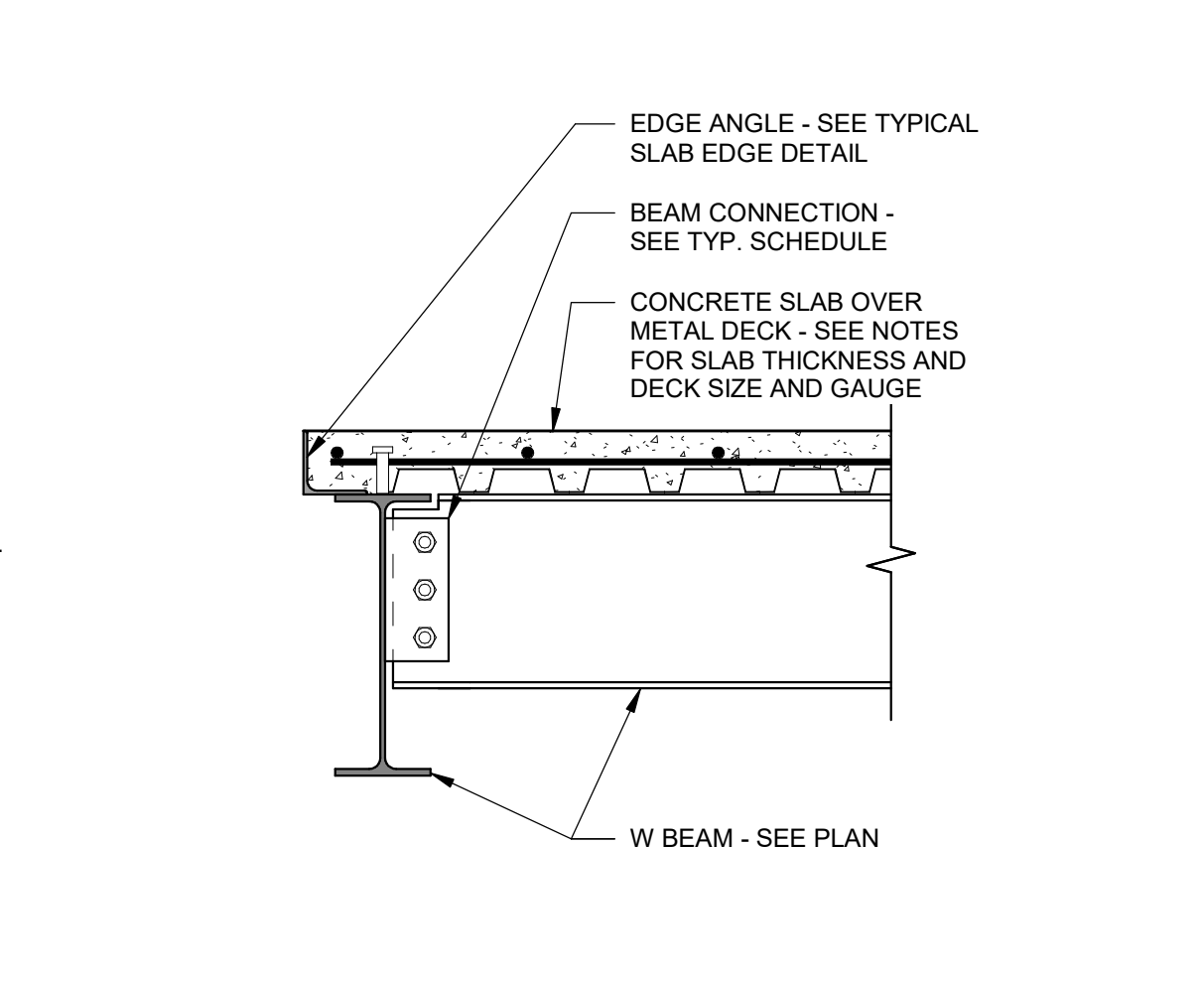


PARALLEL TO DECKSPAN



PERPENDICULAR TO DECKSPAN

FOR SLAB OVERHANGS GREATER THAN 17" ≤ 38"



TYPICAL SLAB EDGE DETAIL

SCALE: NONE

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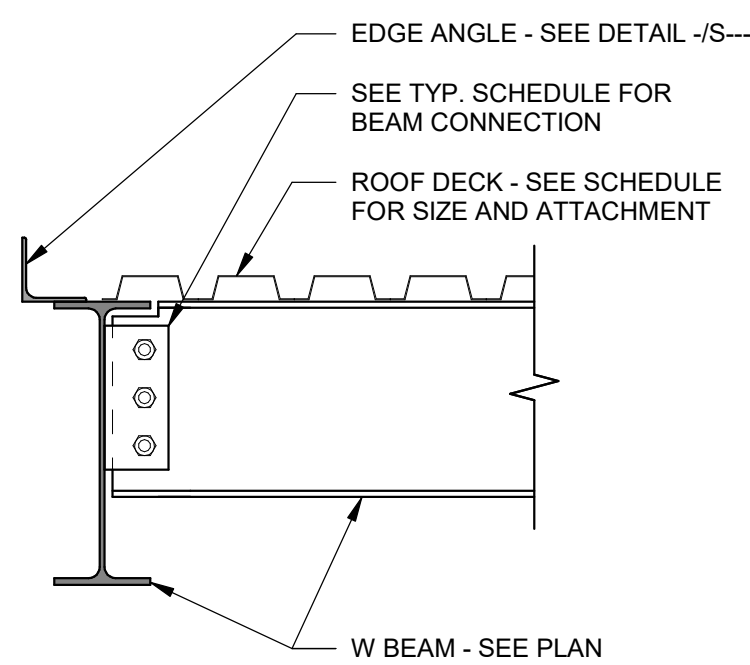
TYPICAL DETAILS - STEEL  
COMPOSITE

S006

12/15/2025 11:25:59 AM



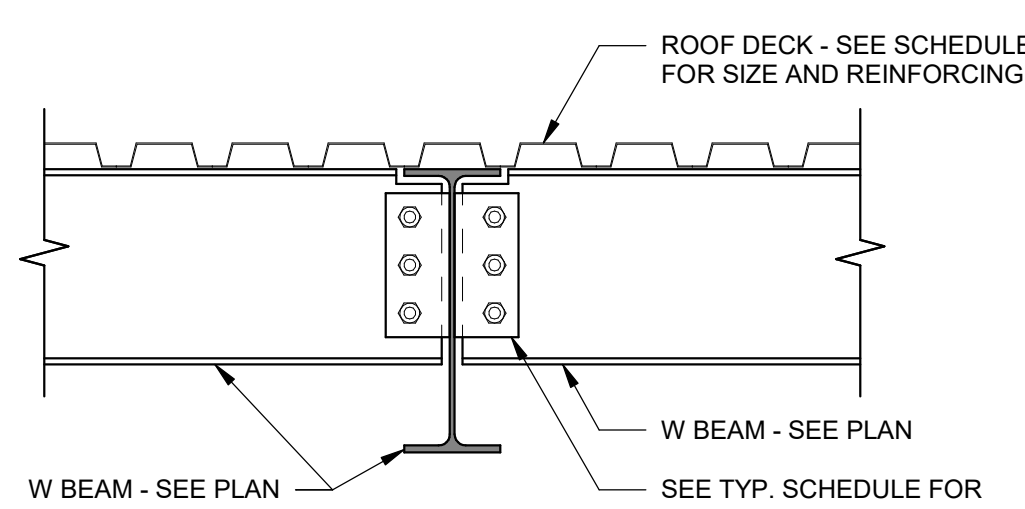
Autodesk Docu/250955.00 - Life Time Fitness - Herriman UTS - 250950 - LifeTime Fitness Herriman - 2025.01  
12/15/2025 11:26:00 AM



DECK ON BEAM

SCALE: NONE

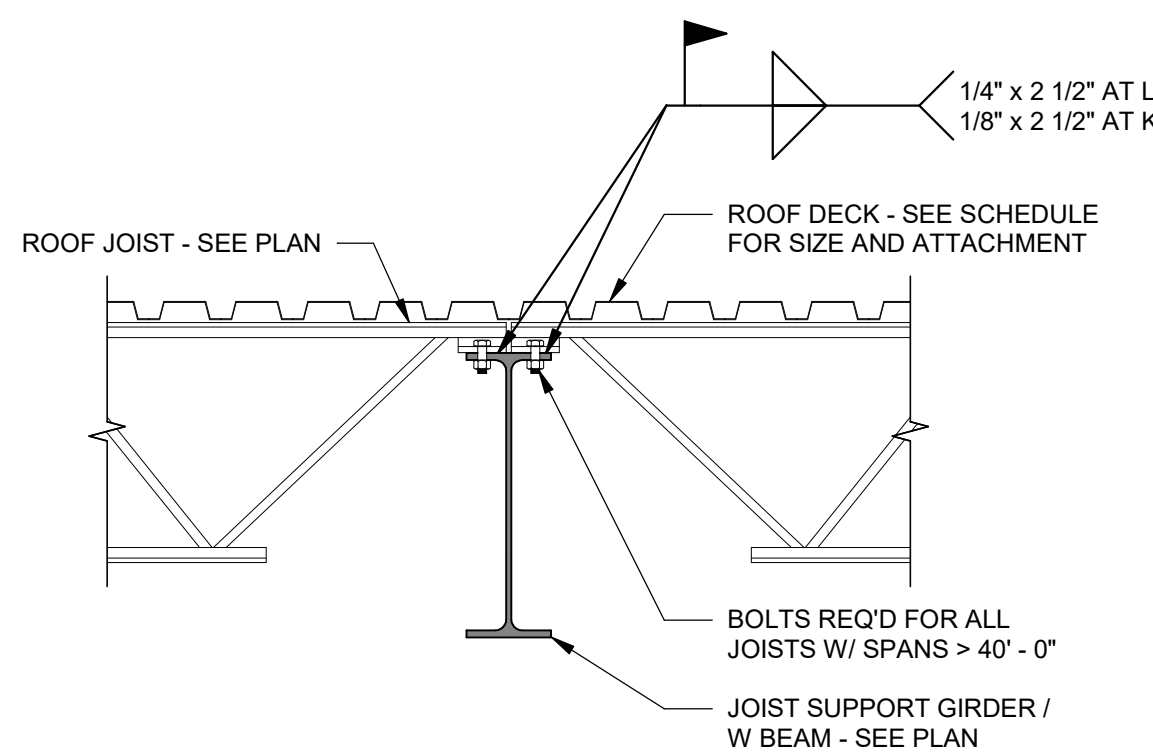
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S007



BEAMS TO GIRDER

SCALE: NONE

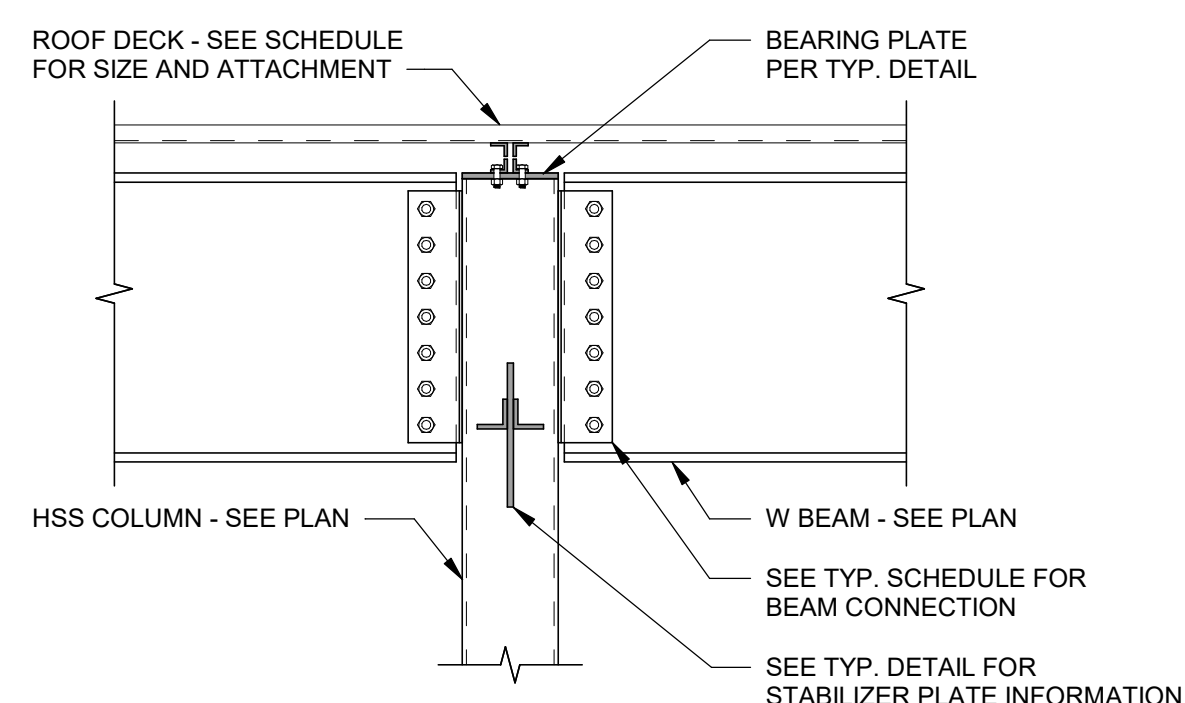
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JOISTS ON BEAM

SCALE: NONE

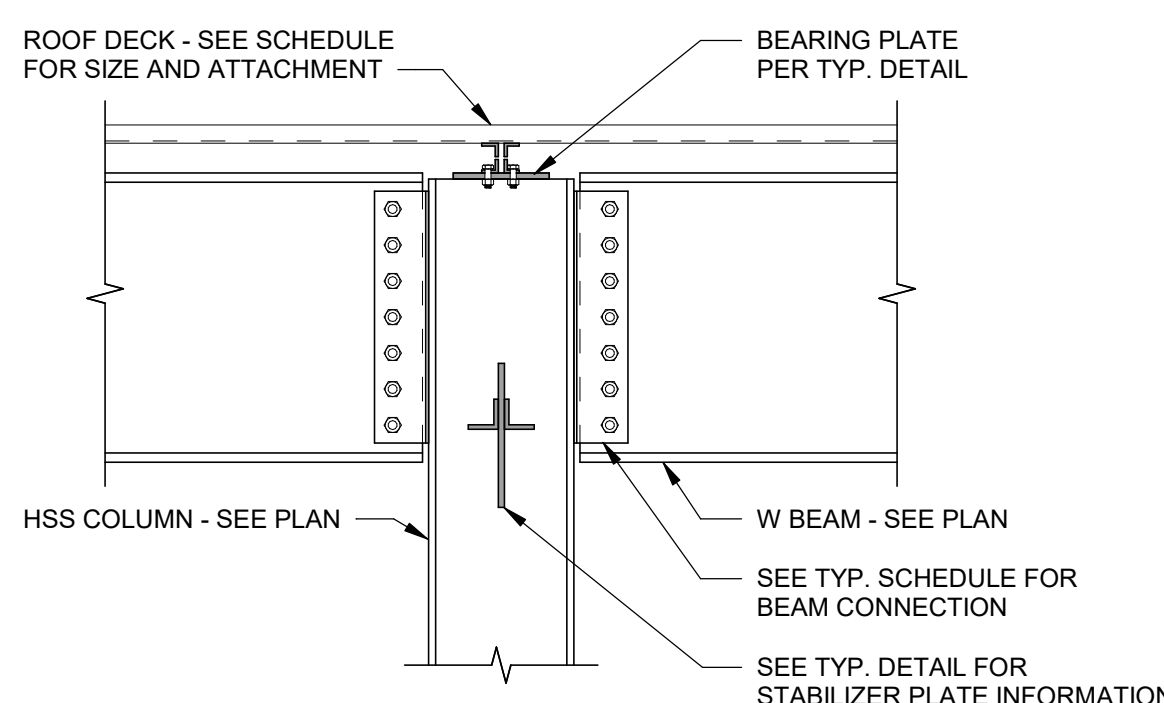
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BEAMS & JOISTS INTO HSS COLUMN

SCALE: NONE

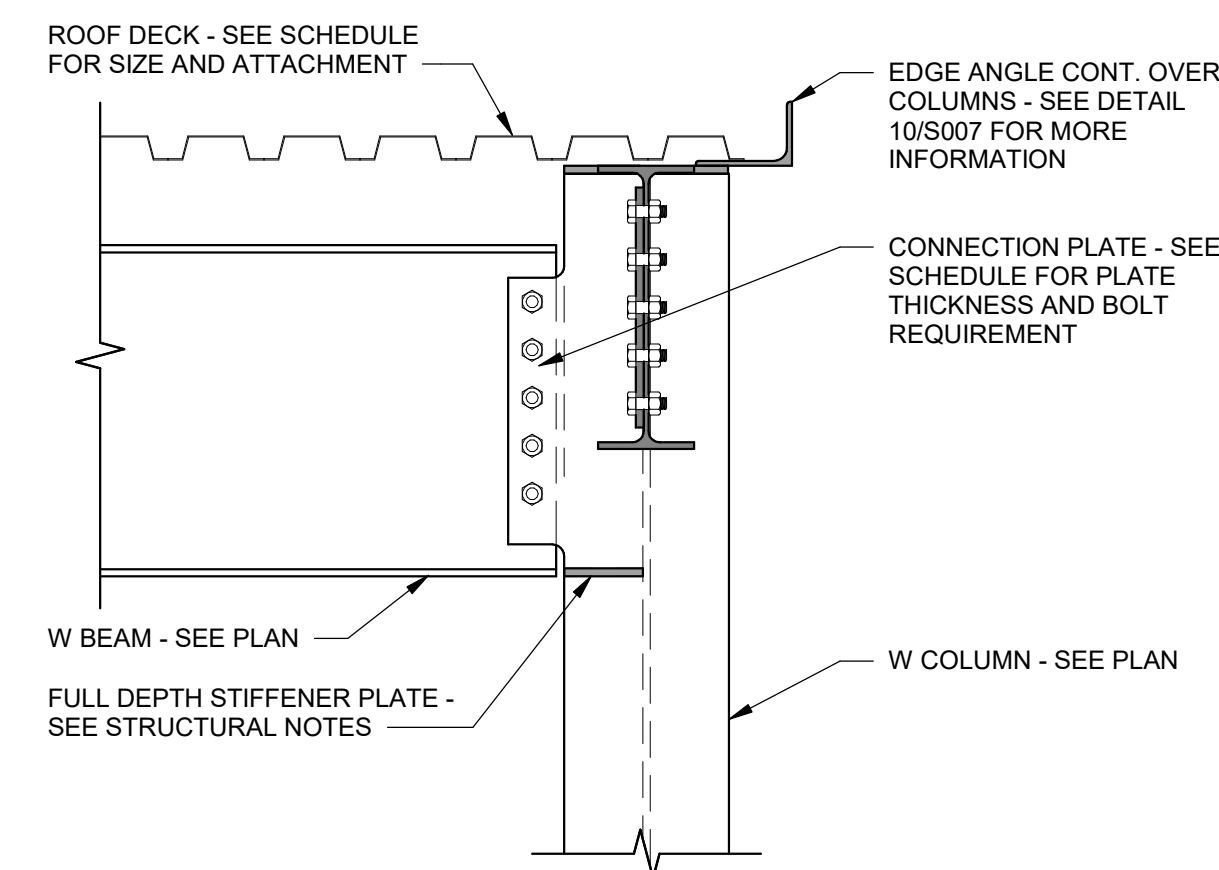
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BEAMS & JOISTS INTO HSS COLUMN

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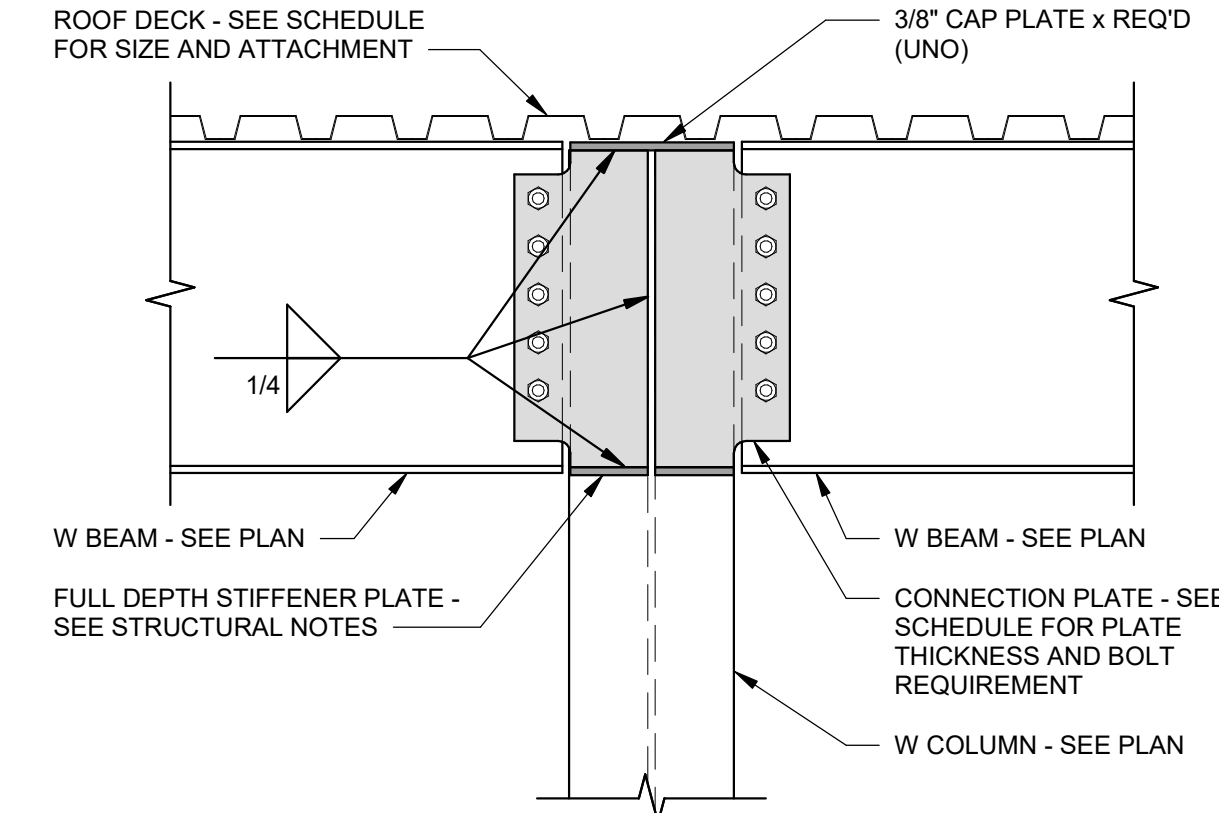
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DETAIL

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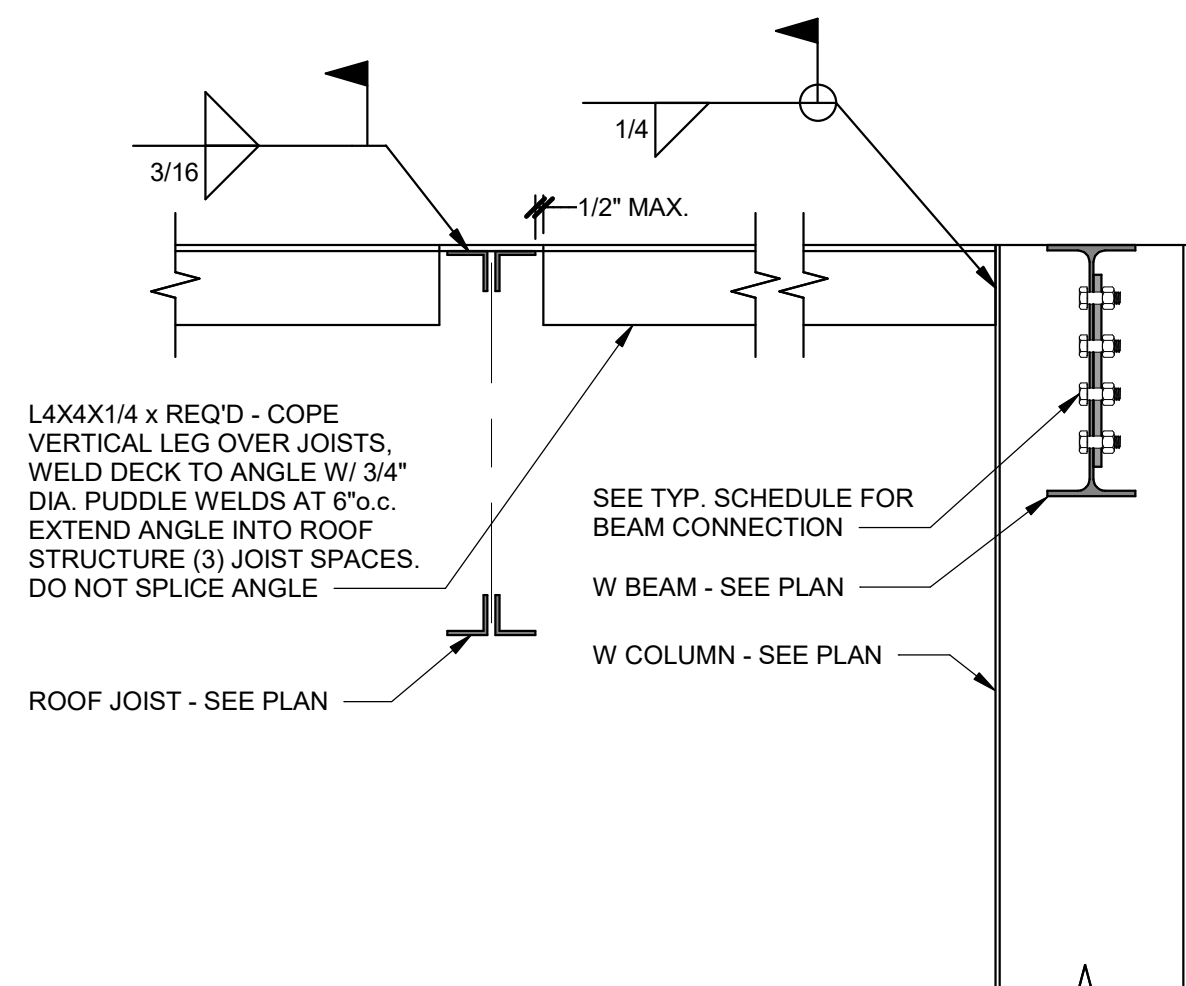
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DETAIL

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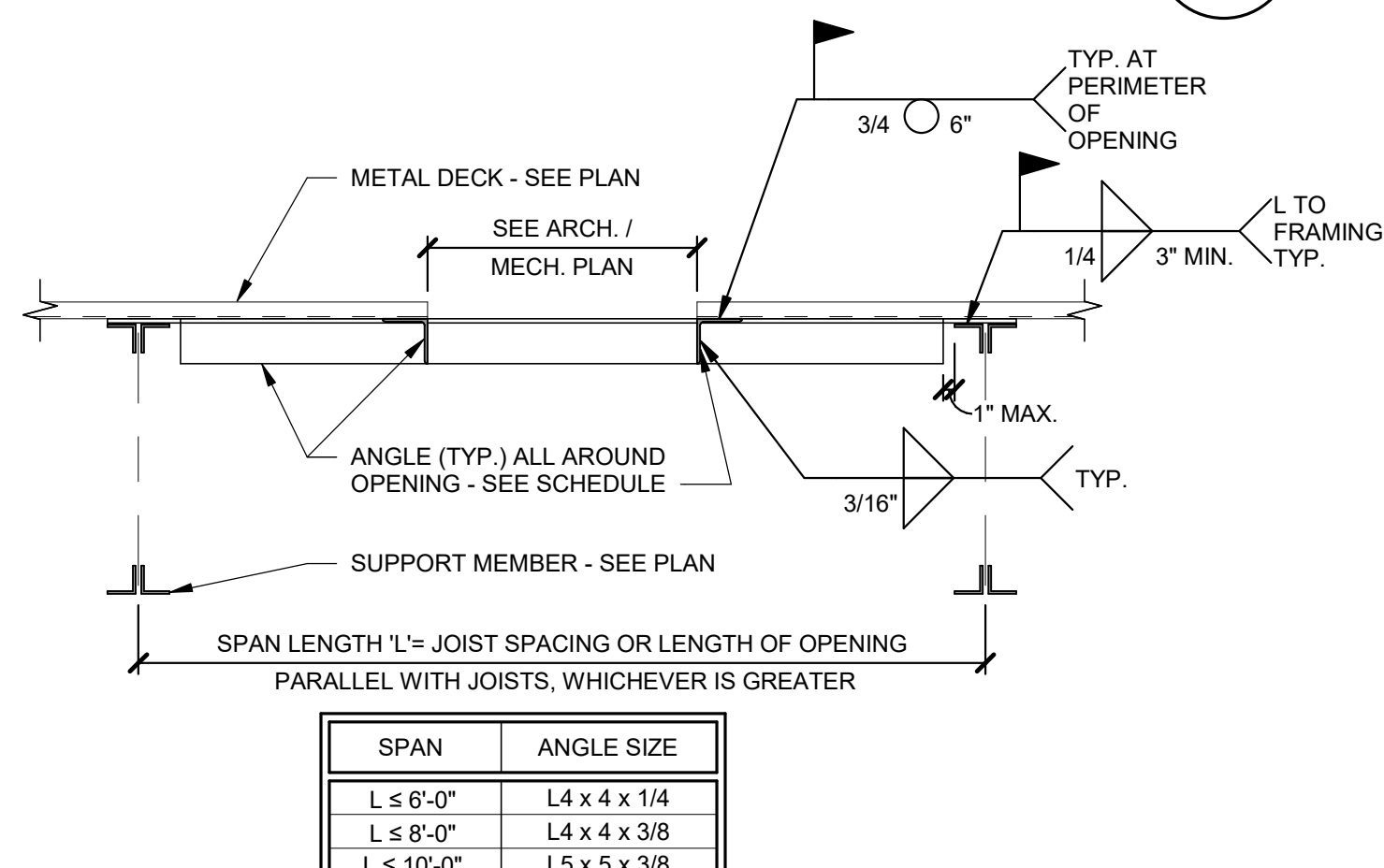
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DETAIL

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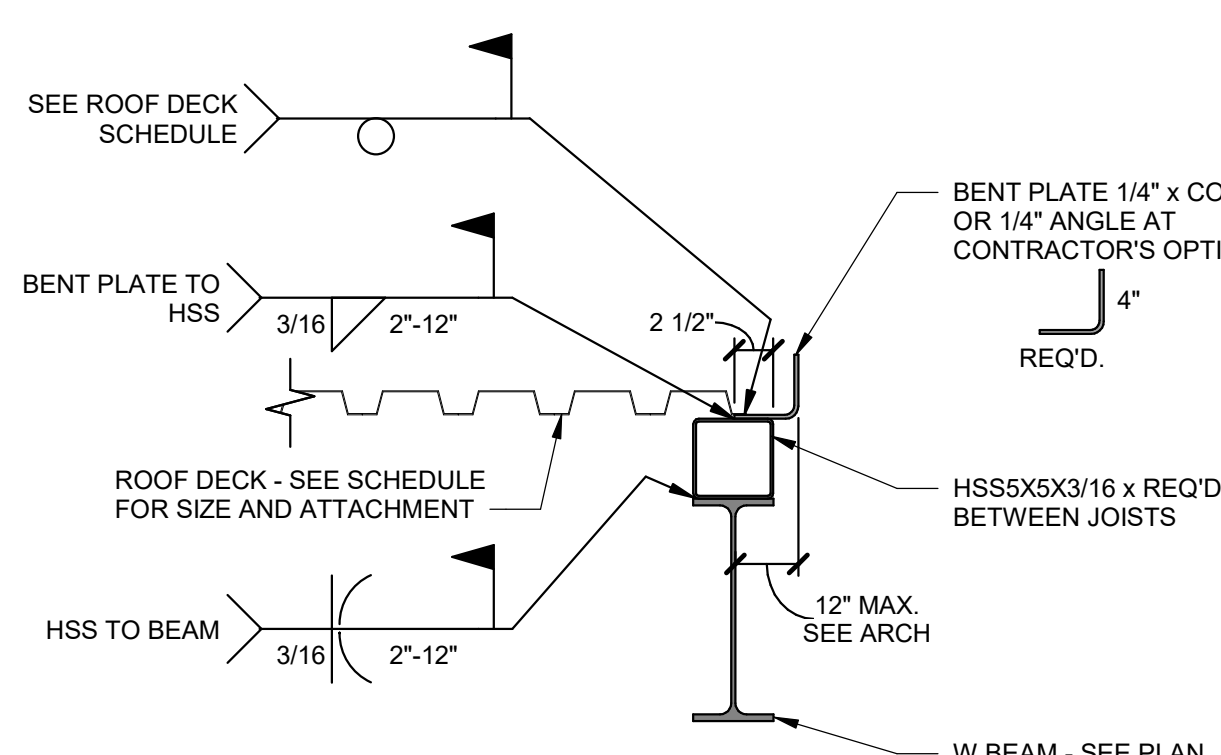
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TYPICAL FRAMING @ ROOF OPENINGS & ROOFTOP EQUIPMENT DETAIL

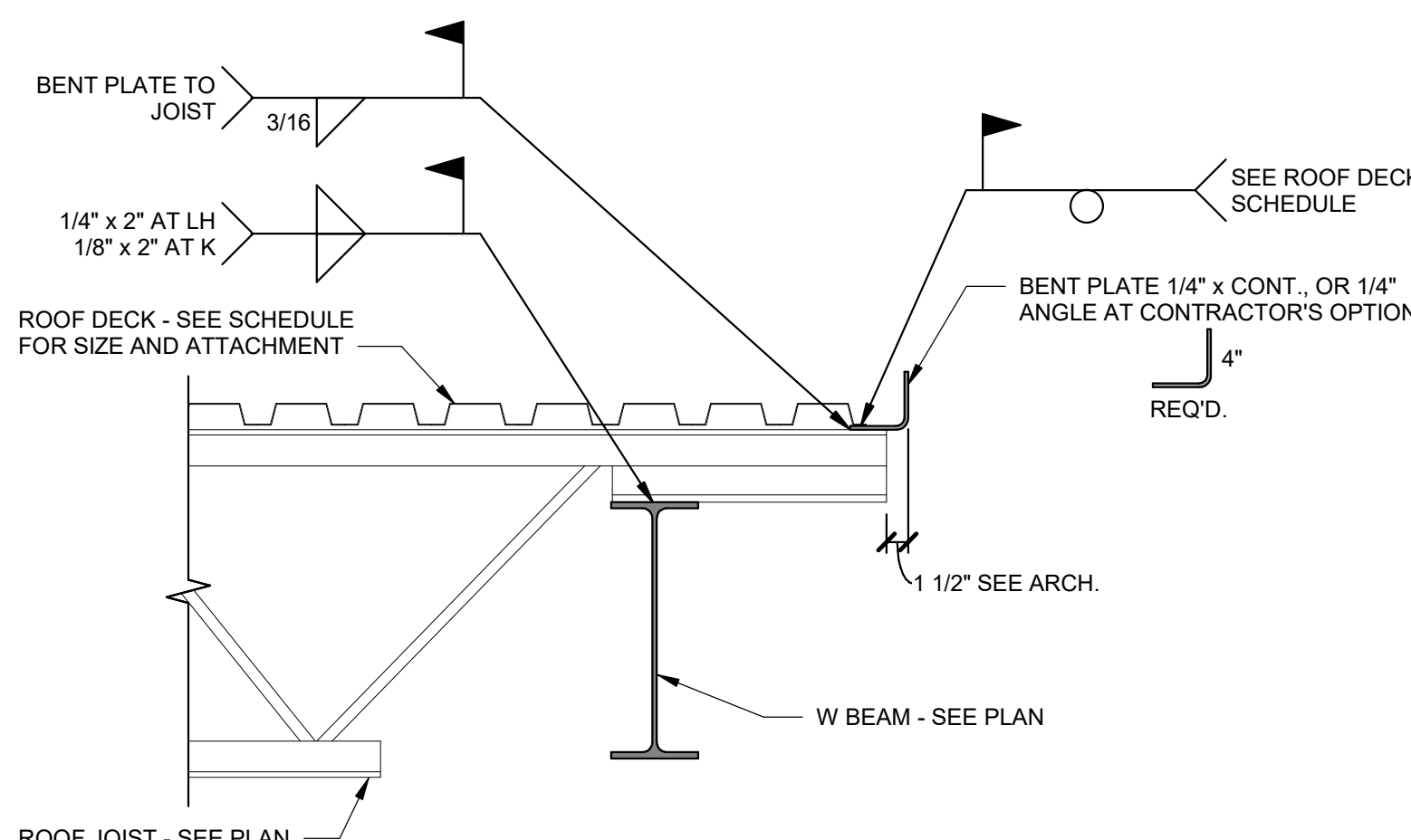
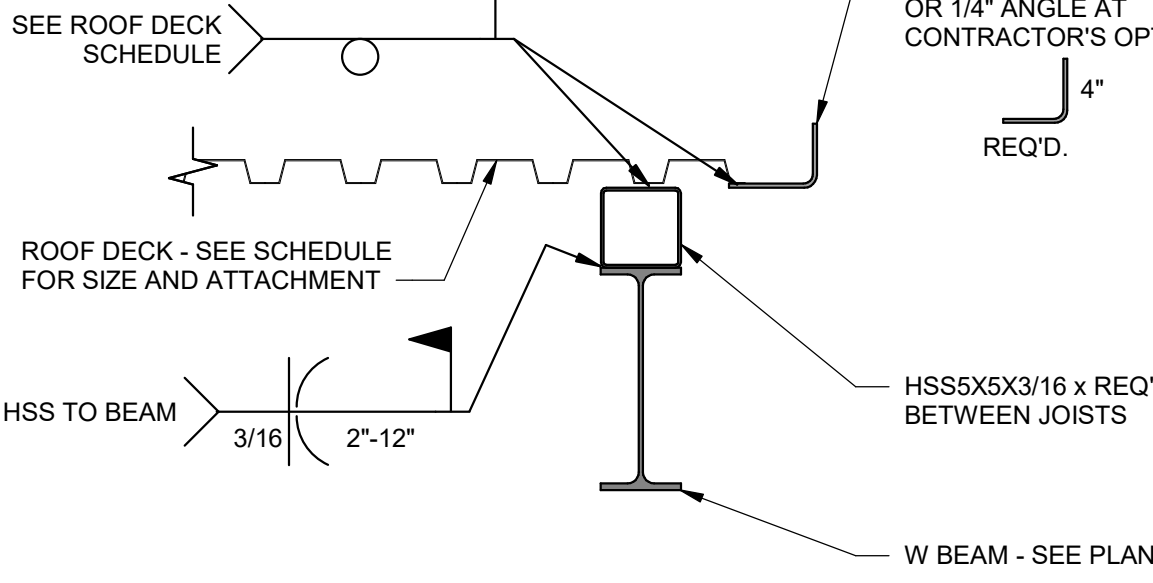
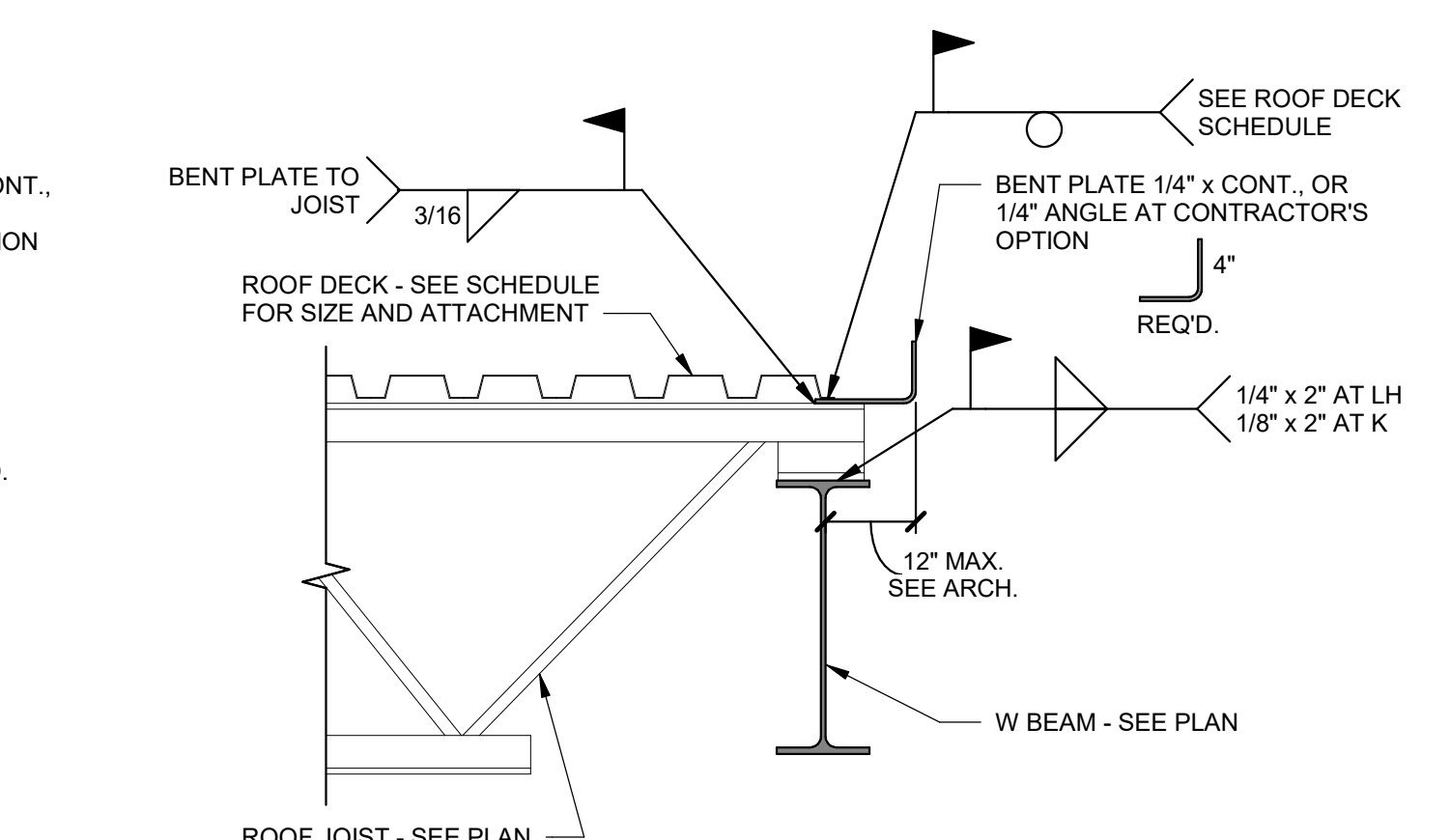
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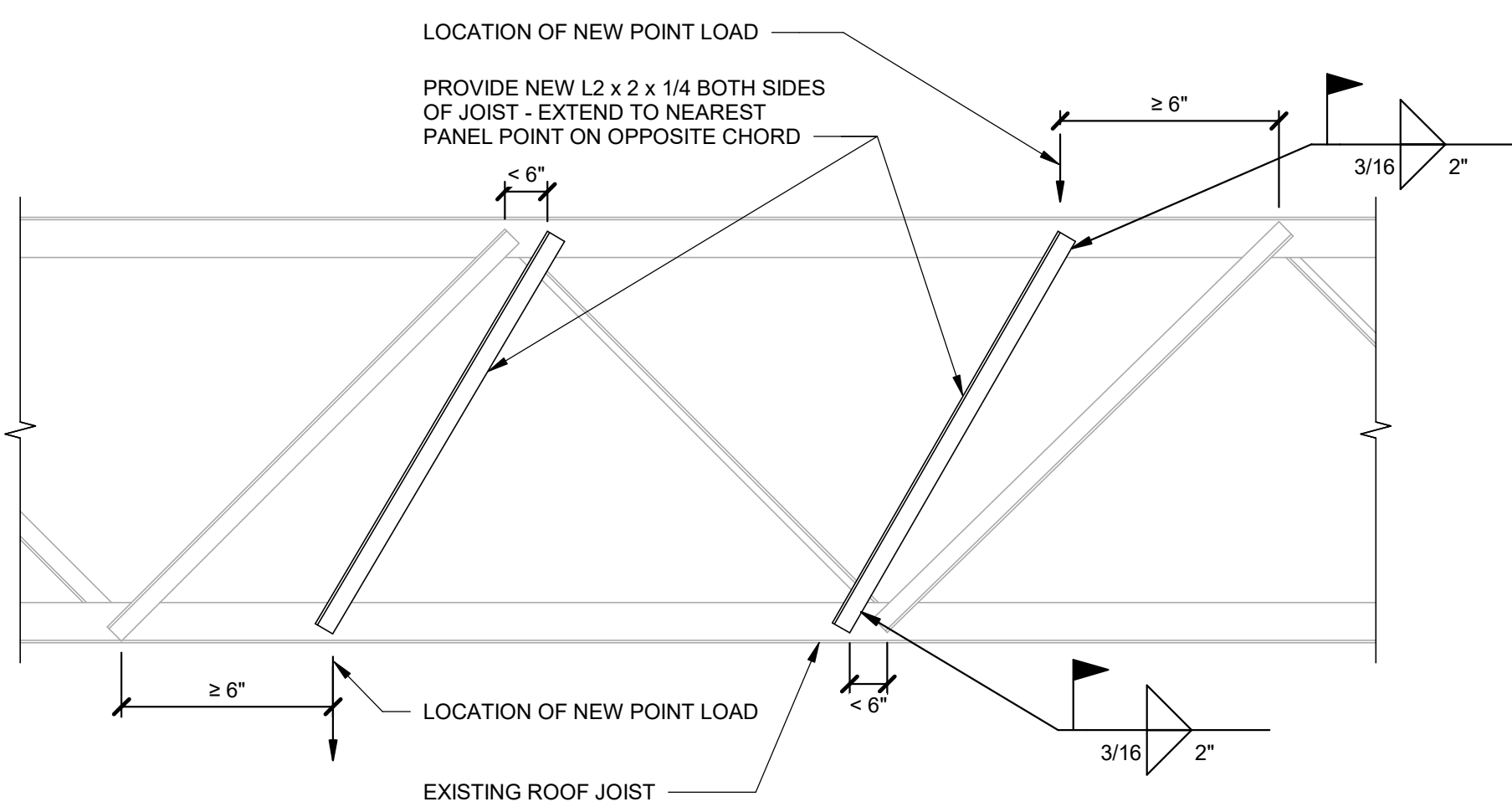


TYPICAL DECK ON JOISTS

SCALE: NONE



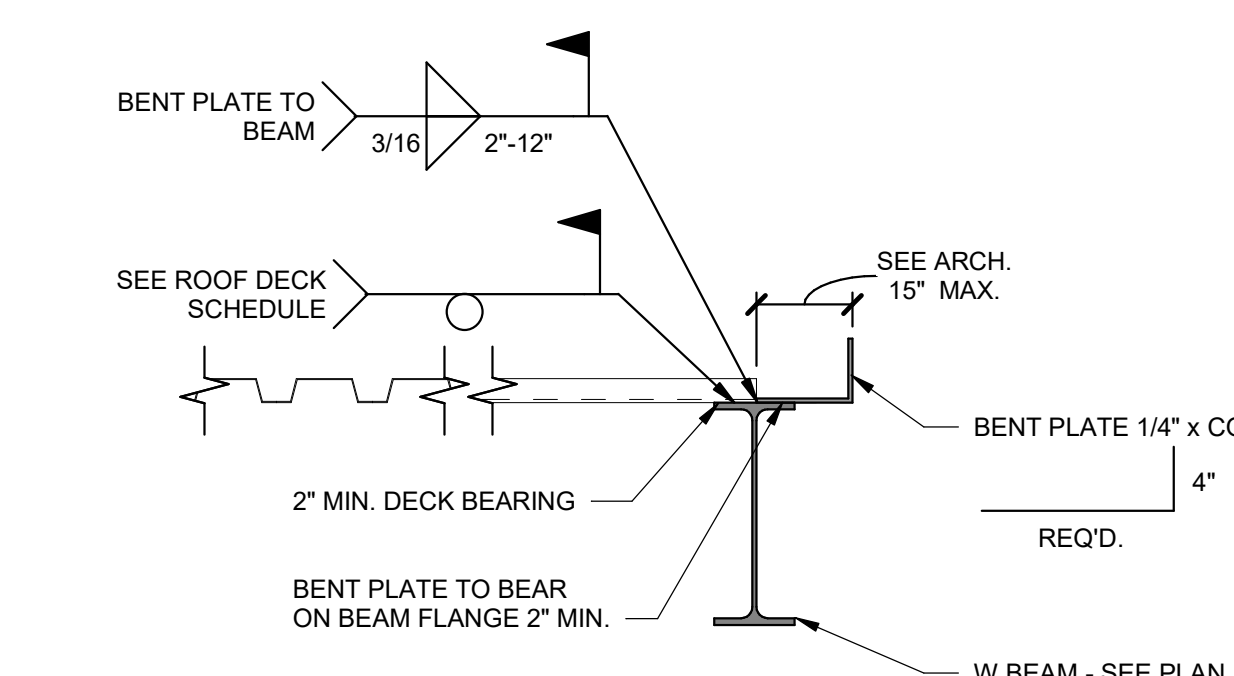
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S007



TYPICAL JOIST UPGRADE DETAIL

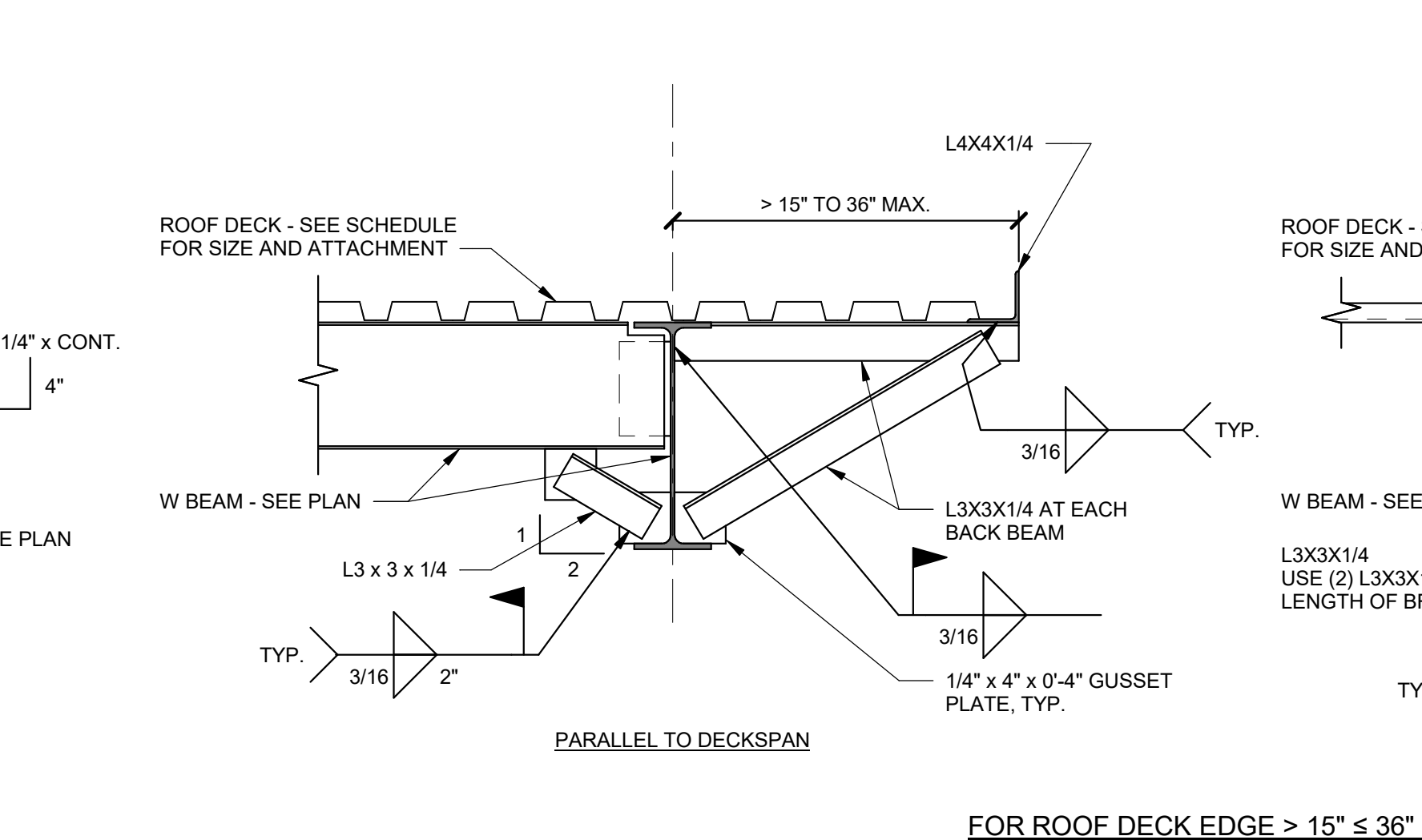
SCALE: NONE

11  
S007



TYPICAL DECK EDGE ON BEAM

SCALE: NONE



FOR ROOF DECK EDGE > 15" ≤ 36"

12  
S007

HERRIMAN, UT

4684 W 12600 S  
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TYPICAL DETAILS - STEEL

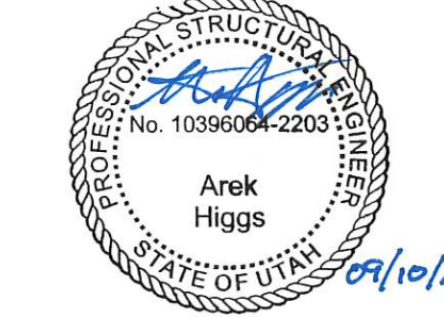
S007

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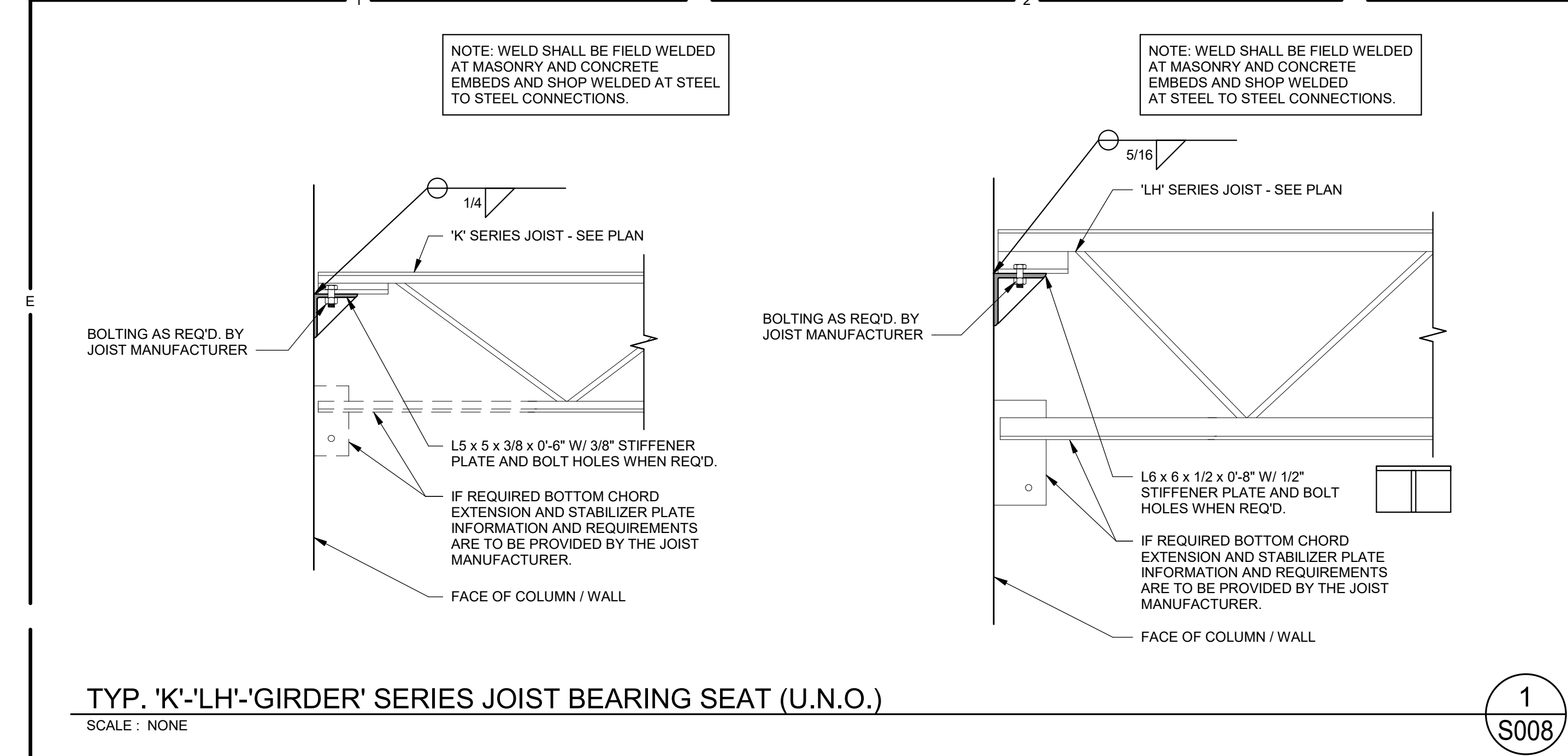


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VCBO NUMBER: Project Number  
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Professional Engineer  
No. 10396006-2203  
Ark  
Higgs  
STATE OF UTAH  
09/10/25

**ARW ENGINEERS**  
ARCHITECTURAL  
RENDERING  
WORKS  
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801.466.1000  
arwengineers.com

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**HERRIMAN, UT**

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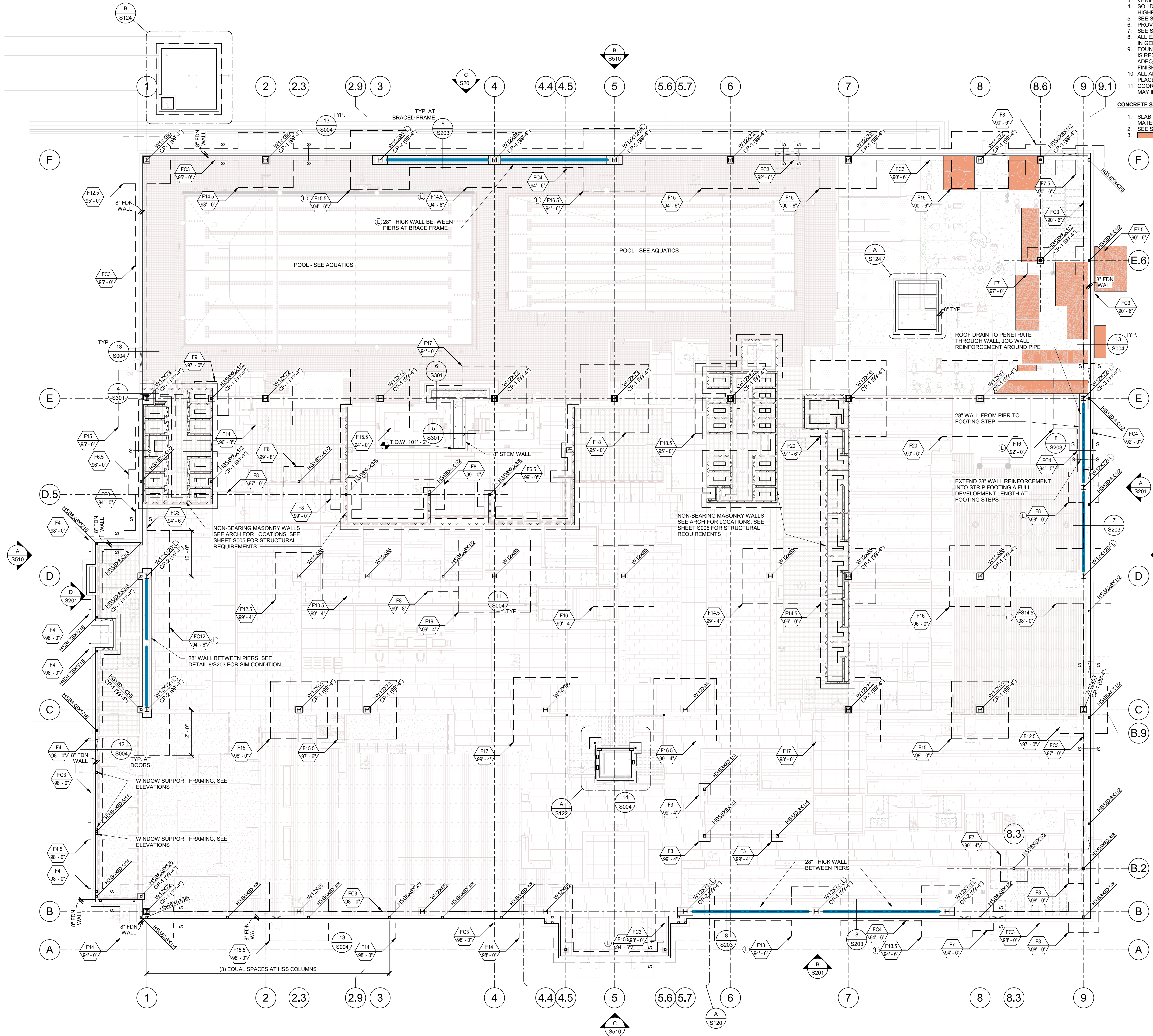
TYPICAL DETAILS - STEEL

**S008**

12/15/2025 11:26:00 AM



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FOOTING & FOUNDATION PLAN  
SCALE: 3/32" = 1'-0"

FOOTING & FOUNDATION NOTES:

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
3. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
4. SOLID GROUT ALL MASONRY COURSES BELOW FINISHED FLOOR OR EXTERIOR GRADE (WHICHEVER IS HIGHER).
5. SEE SHEET S004 FOR FOOTING SCHEDULE.
6. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
7. SEE SHEET S004 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
8. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
9. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
10. ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
11. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.

CONCRETE SLAB NOTES:

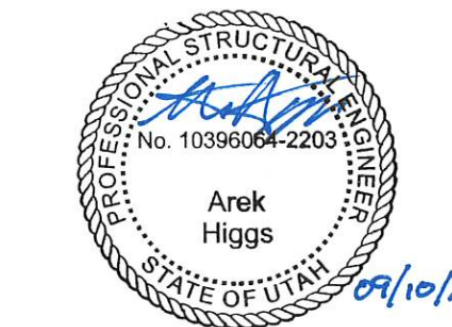
1. SLAB ON GRADE SHALL BE 4" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.
2. SEE SHEET S004 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.
3.   = INDICATES A 4" HOUSEKEEPING PAD. VERIFY SIZE WITH EQUIPMENT SUPPLIER.

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1	20250926	Addendum 001

**HERRIMAN, UT**

4684 W 12600 S  
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FOOTING & FOUNDATION  
PLAN

**S101**

12/15/2025 11:26:04 AM



12/15/2025 11:26:07 AM Autodesk Docs/25995.00 - Life Time Fitness - Herriman UT/5-25990 - LifeTime Fitness - Herriman - 2025.v1



SECOND FLOOR FRAMING PLAN  
SCALE: 3/32" = 1'-0"

- FLOOR FRAMING NOTES:**
- SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
  - CONCRETE FLOOR SLABS SHALL CONSIST OF A CONCRETE SLAB ON METAL DECK AS INDICATED IN THE GENERAL STRUCTURAL NOTES. SLAB THICKNESS IS TOTAL FROM BOTTOM OF DECK TO TOP OF CONCRETE. THE WELDED WIRE FABRIC SHALL BE PLACED AT THE APPROXIMATE CENTERLINE OF THE CONCRETE DEPTH OVER THE TOP FLUTE OF THE FORMLOK DECK.
  - ( ) DENOTES QUANTITY OF 3/4" DIAMETER X 5' LONG HSA ALONG BEAM TOP FLANGE.
  - c = DENOTES AMOUNT OF CAMBER IN WF BEAM AT MIDSPAN.
  - PROVIDE TYPICAL SLAB CLOSURE AT ALL OPENINGS AND SLAB EDGES AS PER DETAIL 3/S006 & 10/S006. TYPICAL UNLESS NOTED OTHERWISE.
  - SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS.
  - SEE S2.1 FOR MASONRY BEAM/INTEL SCHEDULE.
  - WHERE STEEL FLOOR DECK RUNS PERPENDICULAR TO BEAMS WITH HSA, HSA SHALL BE FIELD WELDED TO BEAMS THRU DECK MATERIAL.
  - WHERE STEEL FLOOR DECK RUNS PARALLEL TO BEAMS WITH HSA, A 2-1/2" X CONTINUOUS EXPOSED BEAM FLANGE SURFACE IS REQUIRED FOR CONCRETE COVER OF HSA.
  - DO NOT PROVIDE CONTROL JOINTS IN SUSPENDED CONCRETE SLABS.
  - CONSTRUCTION JOINTS IN SLABS ON DECK SHALL NOT BE CLOSER THAN 12" TO HSA.
  - AT NON-COMPOSITE BEAMS AND JOISTS AND WHERE HSA'S ARE SPACED AT MORE THAN 12" O.C., WELD DECK TO SUPPORT WITH 3/4" DIAMETER PUDDLE WELDS AT 12" O.C.
  - ( ) INDICATES A 6" RECESS IN THE STRUCTURAL SLAB WITH AN ISOLATION SLAB ABOVE. ISOLATION SLAB SHALL WEIGH A MAXIMUM OF 75 PSF.
  - ( ) INDICATES A 6" RECESS IN THE STRUCTURAL SLAB WITH A 6" NORMAL WEIGHT CONCRETE TOPPING SLAB.
  - ( ) INDICATES TILE CEILING BELOW 2ND FLOOR. TILE CEILING SUPPORT BY OTHERS.
  - ( ) INDICATES ADDITIONAL DRAG AND DIAPHRAGM REINFORCEMENT IN SUSPENDED CONCRETE SLAB - SEE PLAN.

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ARW ENGINEERS

100 S. 200 E. SUITE 200  
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arwengineers.com

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1	20250926	Addendum 001

**HERRIMAN, UT**

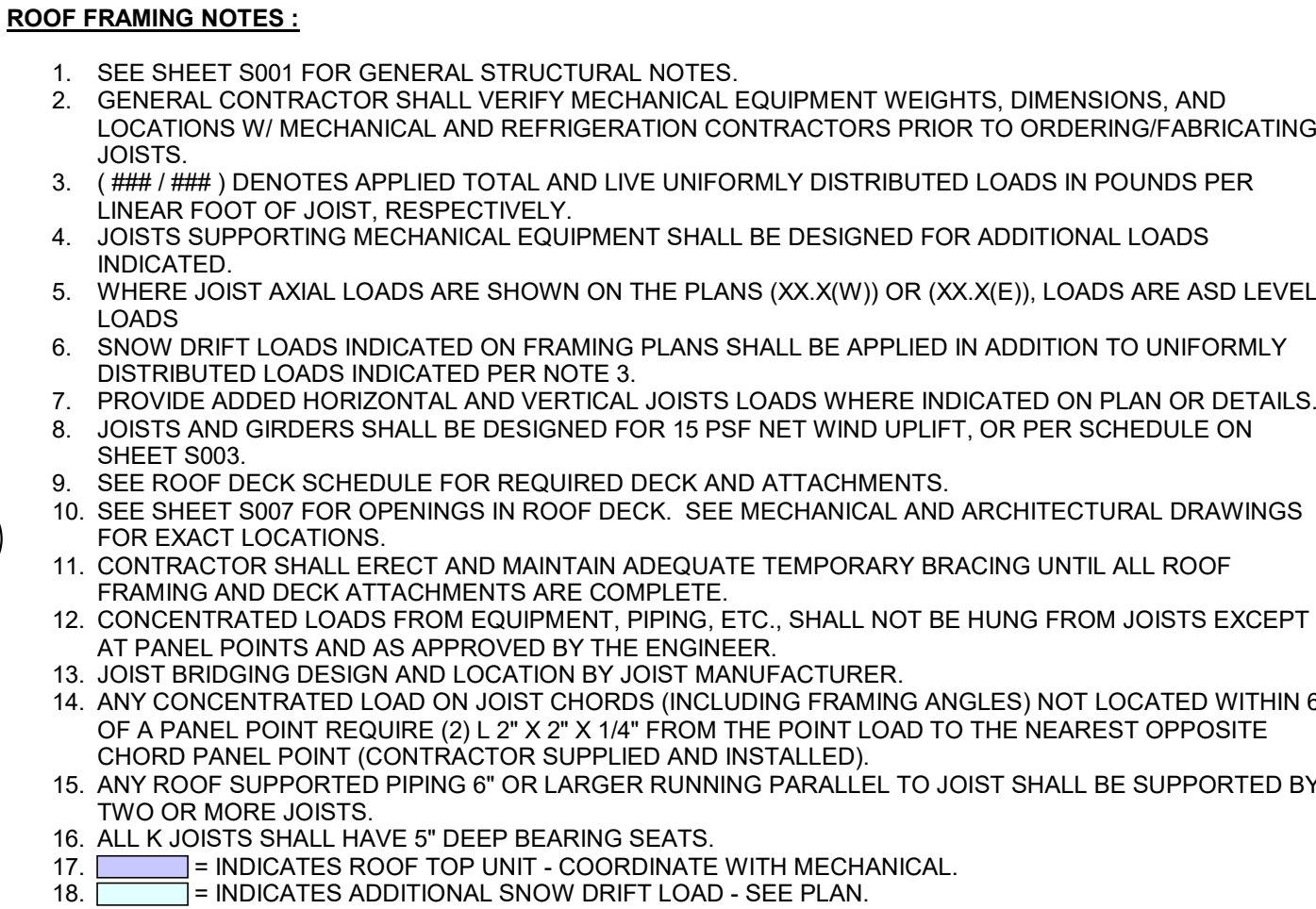
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FLOOR FRAMING PLAN

**S102**

12/15/2025 11:26:07 AM

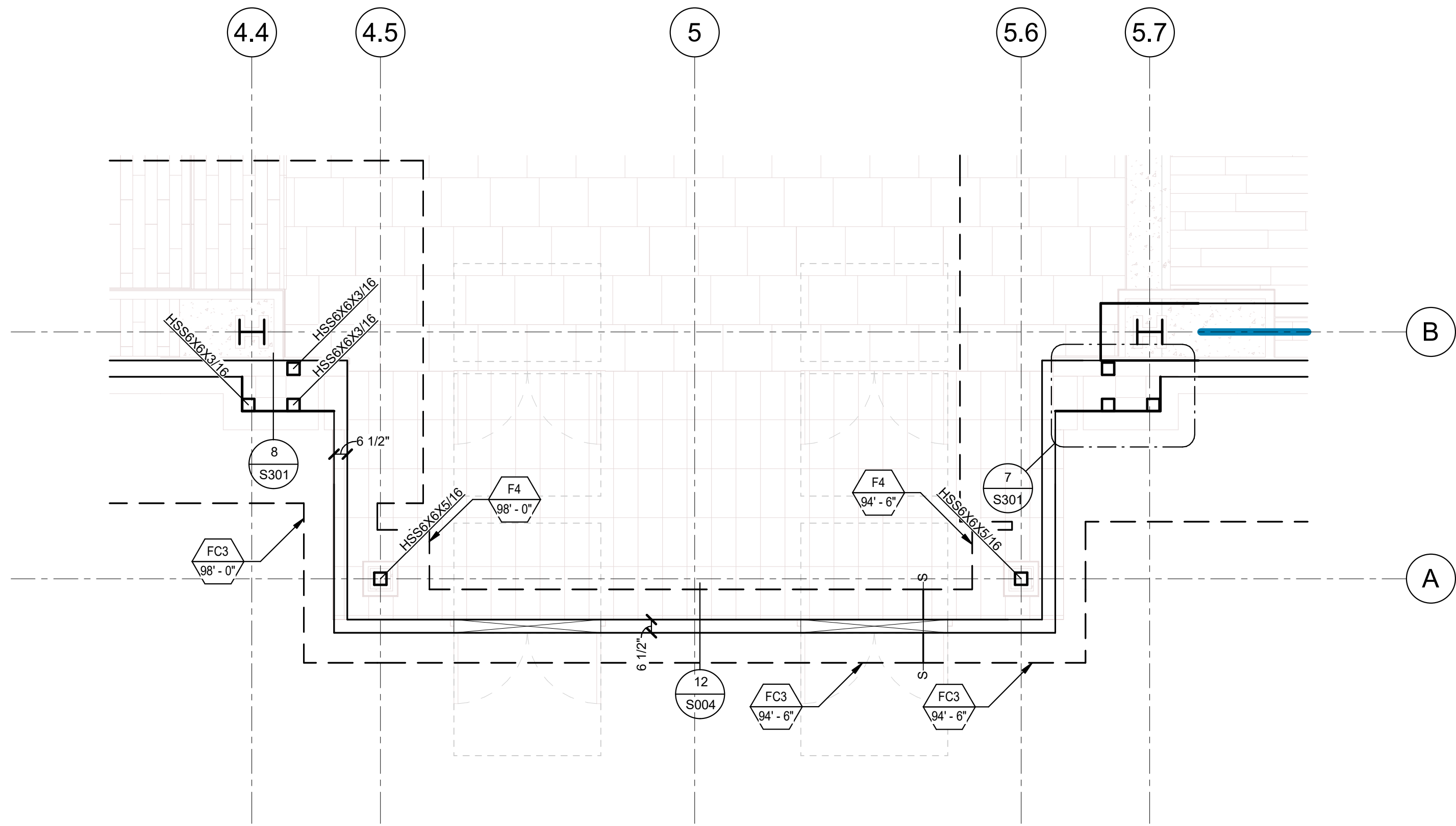




REV	DATE	DESCRIPTION
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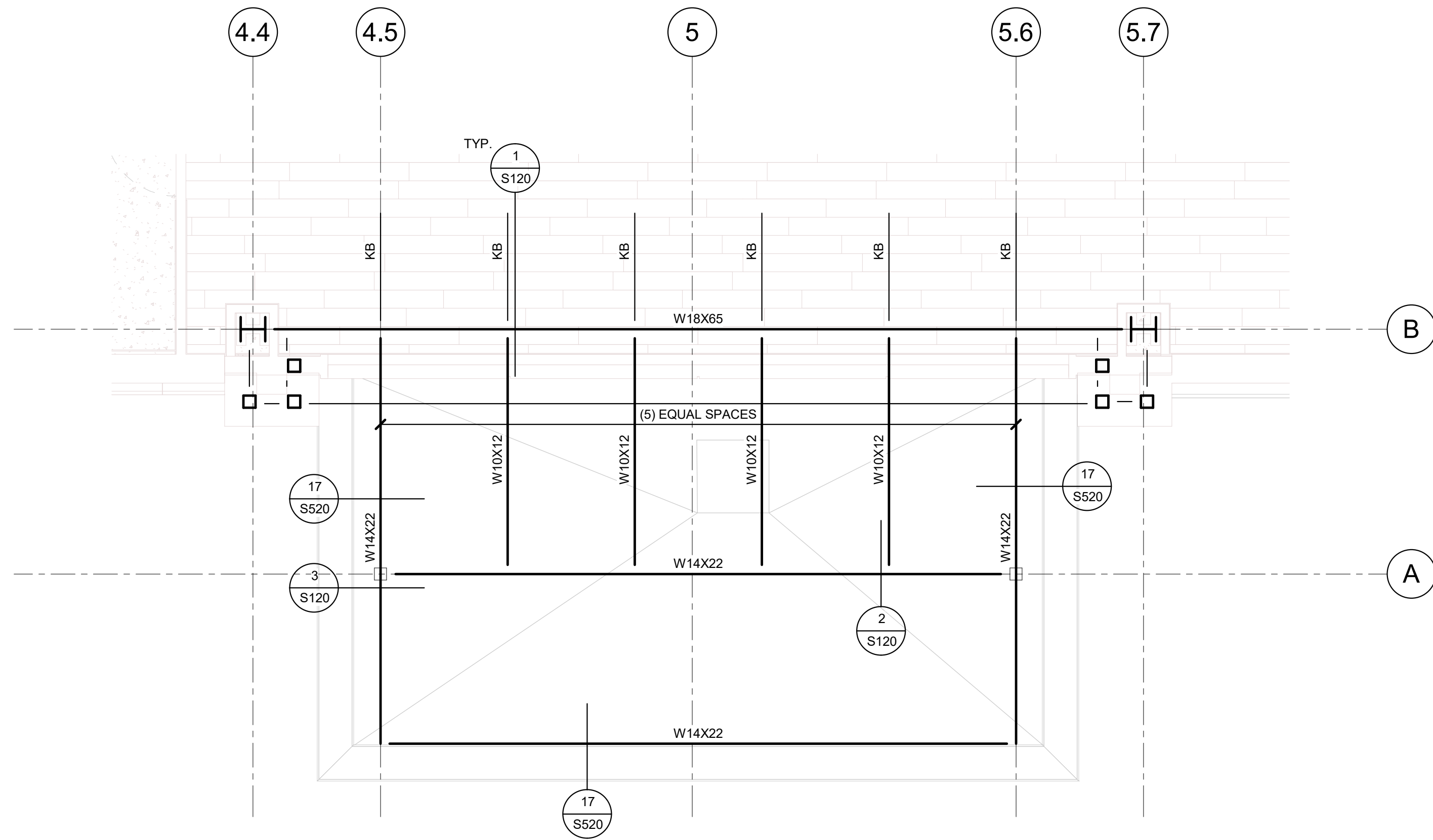
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ENLARGED ENTRANCE FOUNDATION PLAN

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

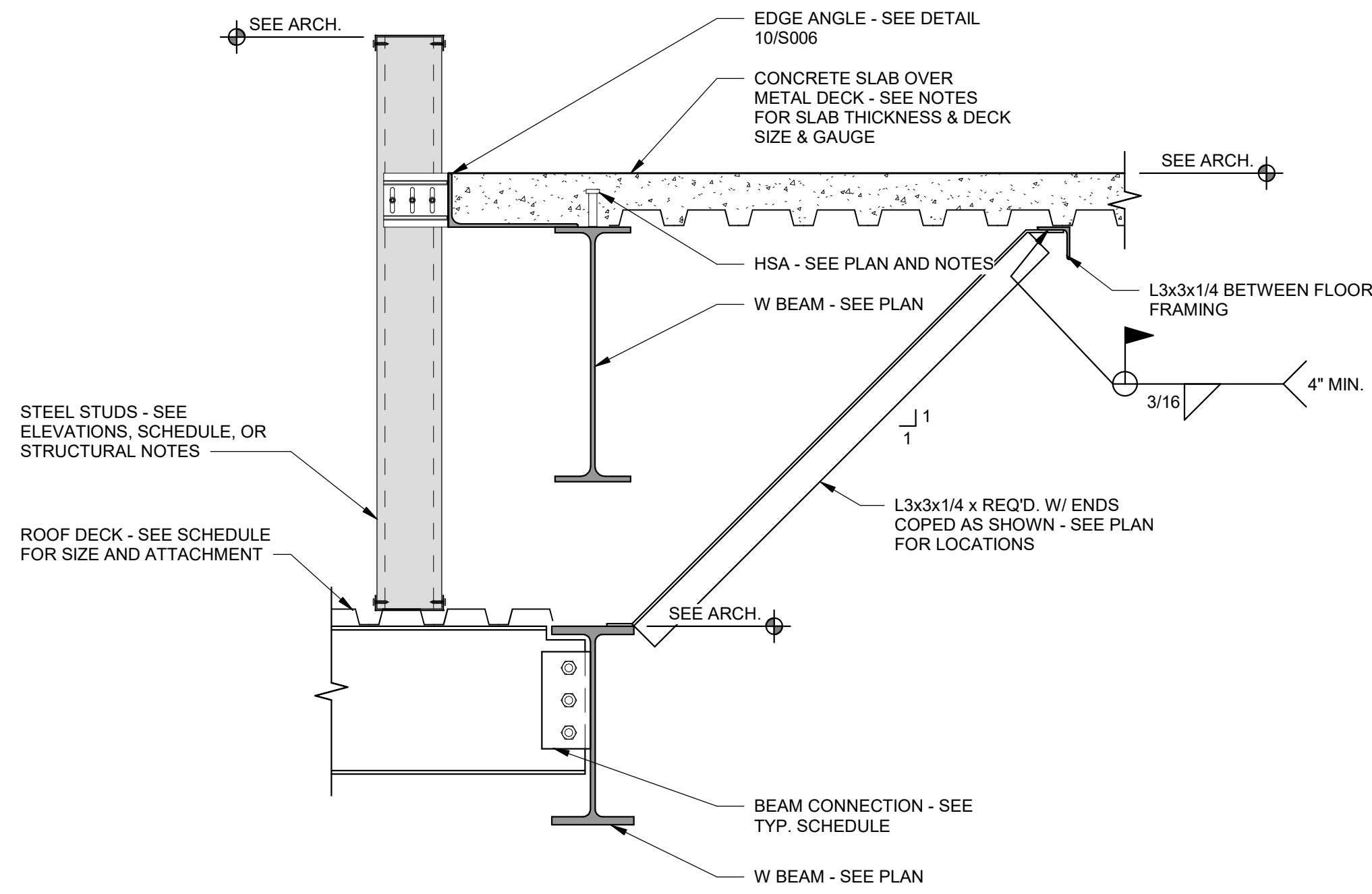
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S120



ENLARGED ENTRANCE FRAMING PLAN

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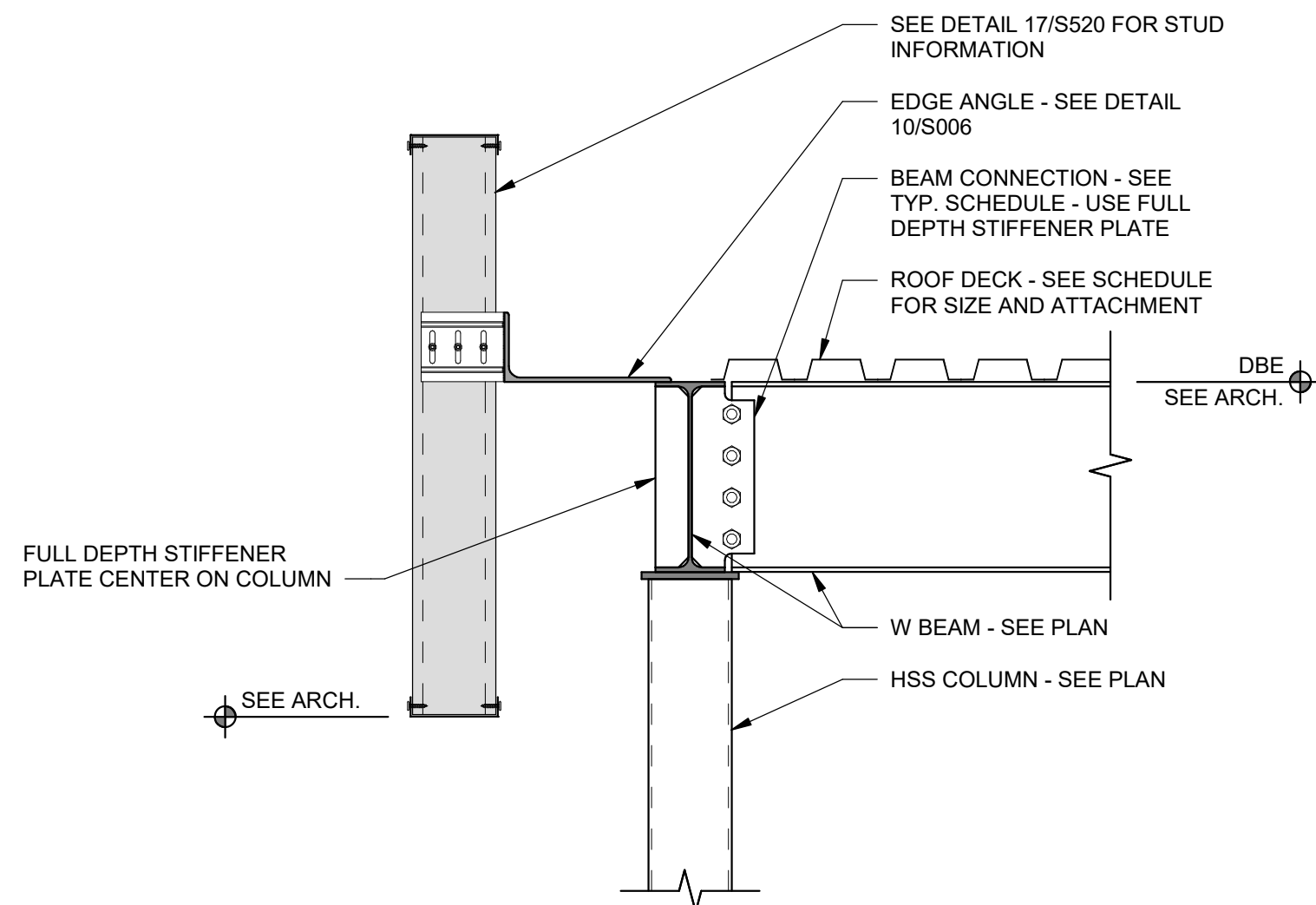
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S120



DETAIL

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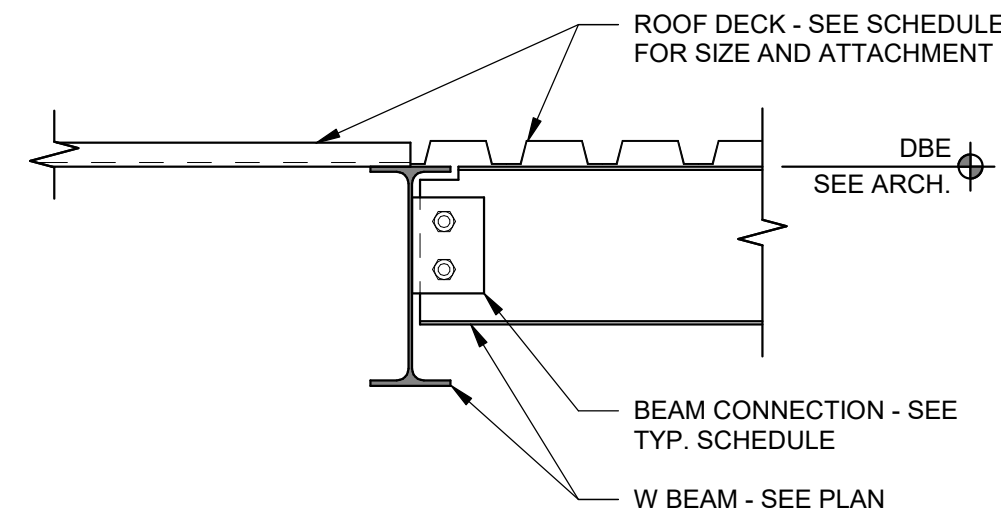
1  
S120



DETAIL

SCALE : NONE

2  
S120



DETAIL

SCALE : NONE

3  
S120

HERRIMAN, UT

4684 W 12600 S  
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ENLARGED FRONT  
ENTRANCE PLAN

S120

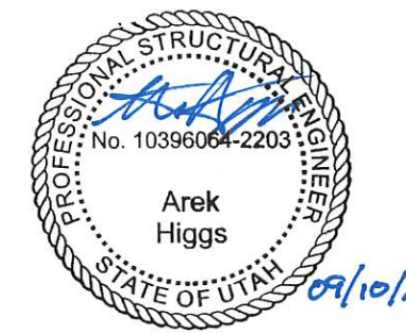
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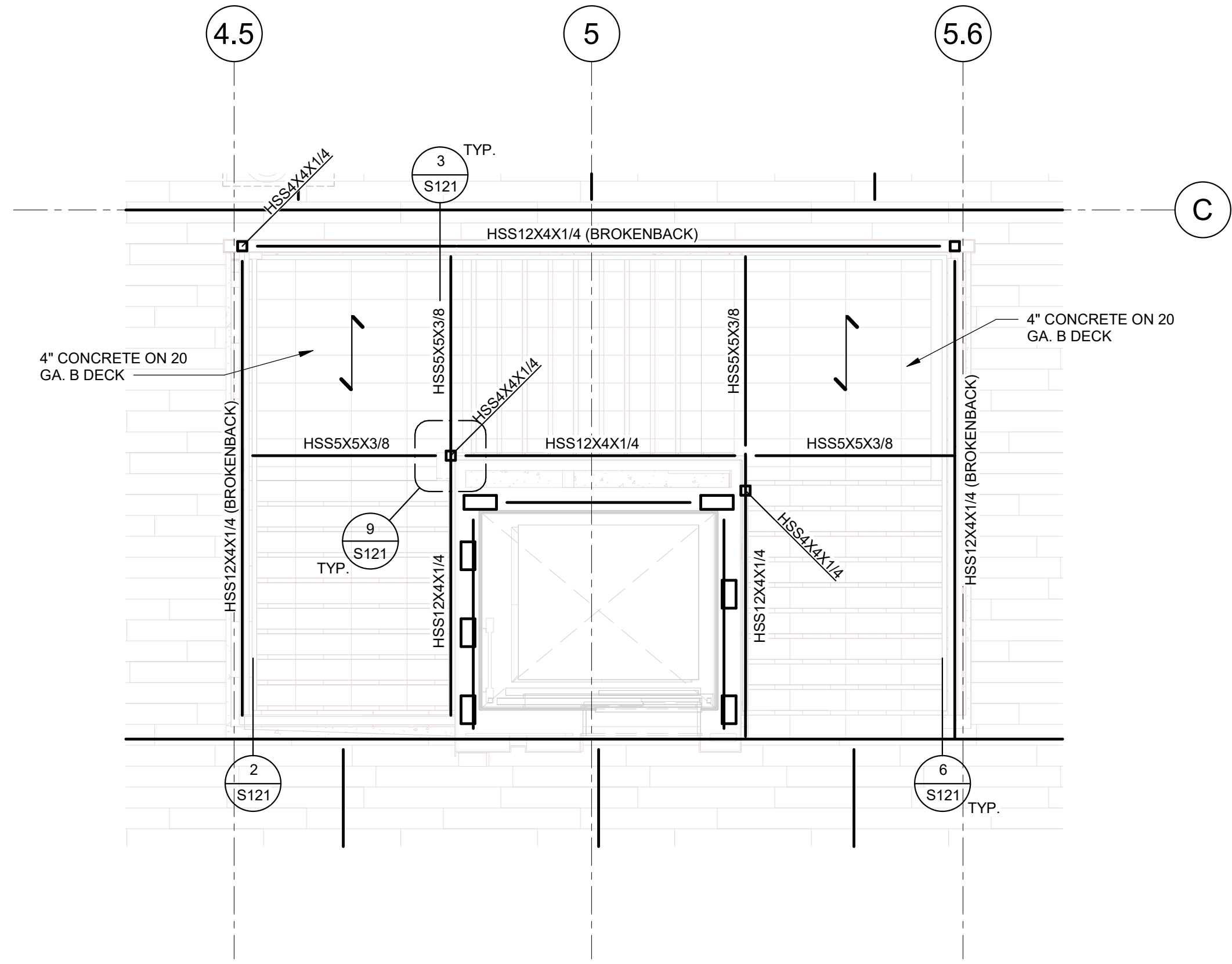
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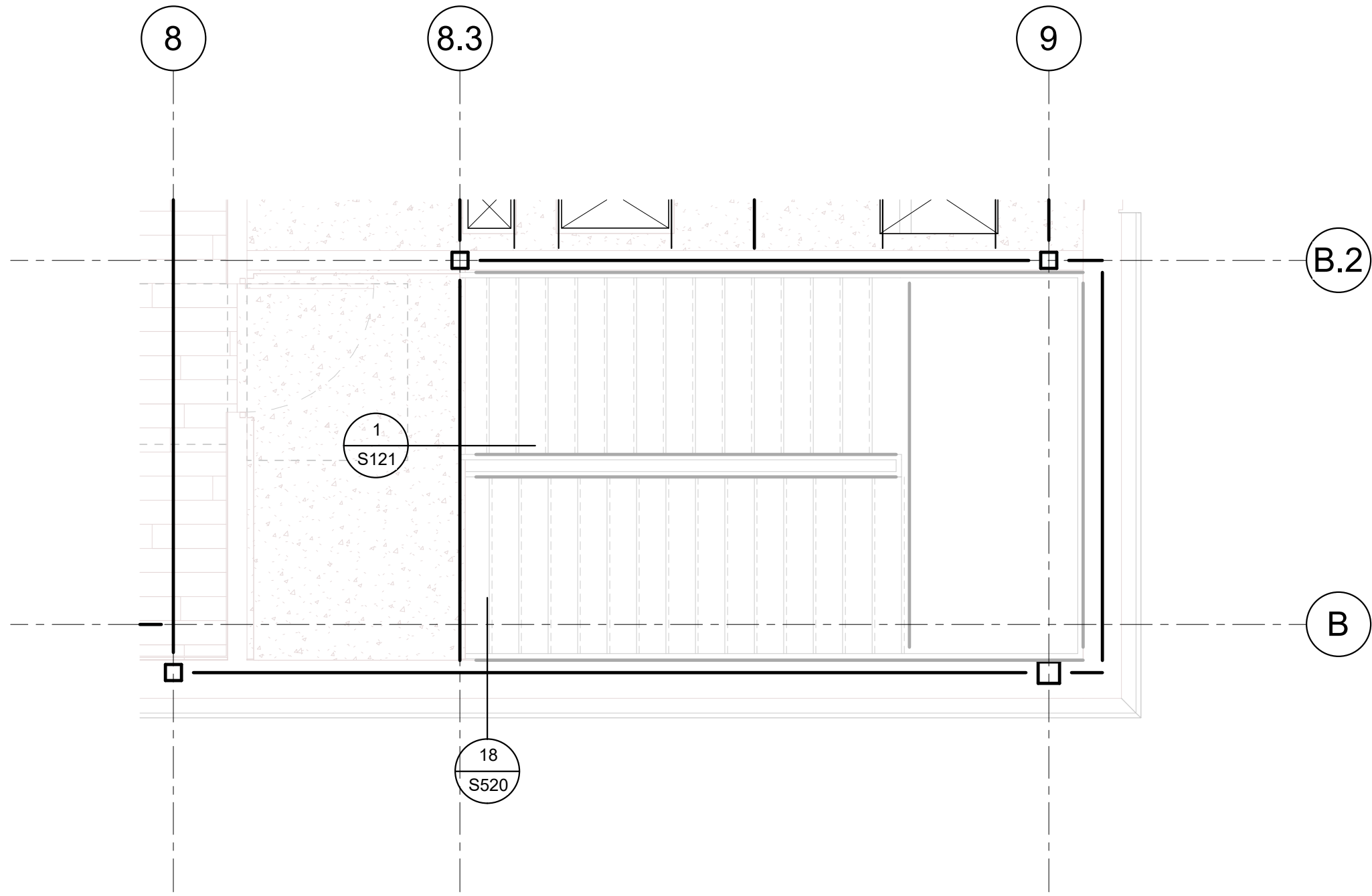


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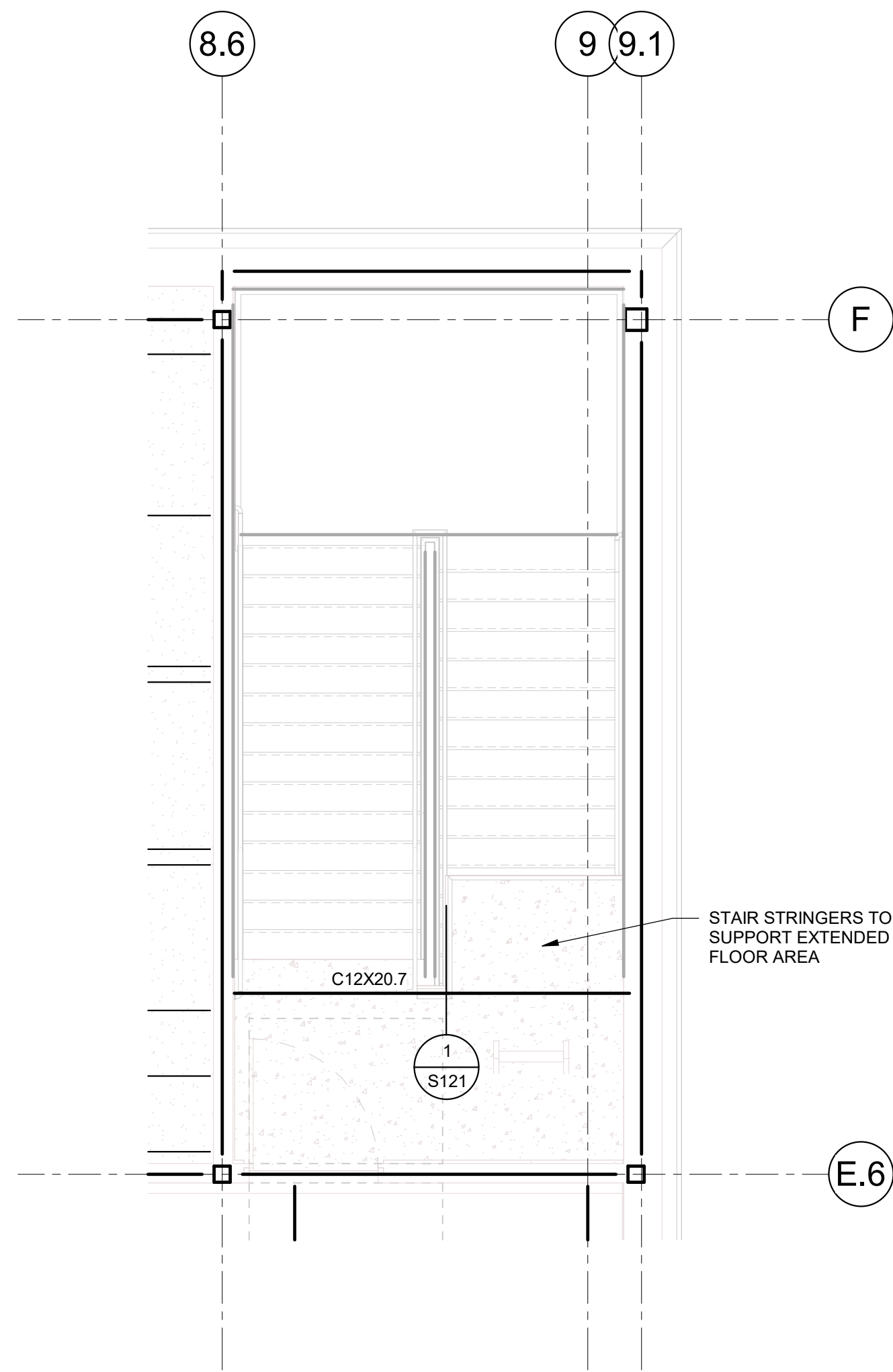
ENLARGED CENTRAL STAIR PLAN  
SCALE : 1/4" = 1'-0"

A  
S121



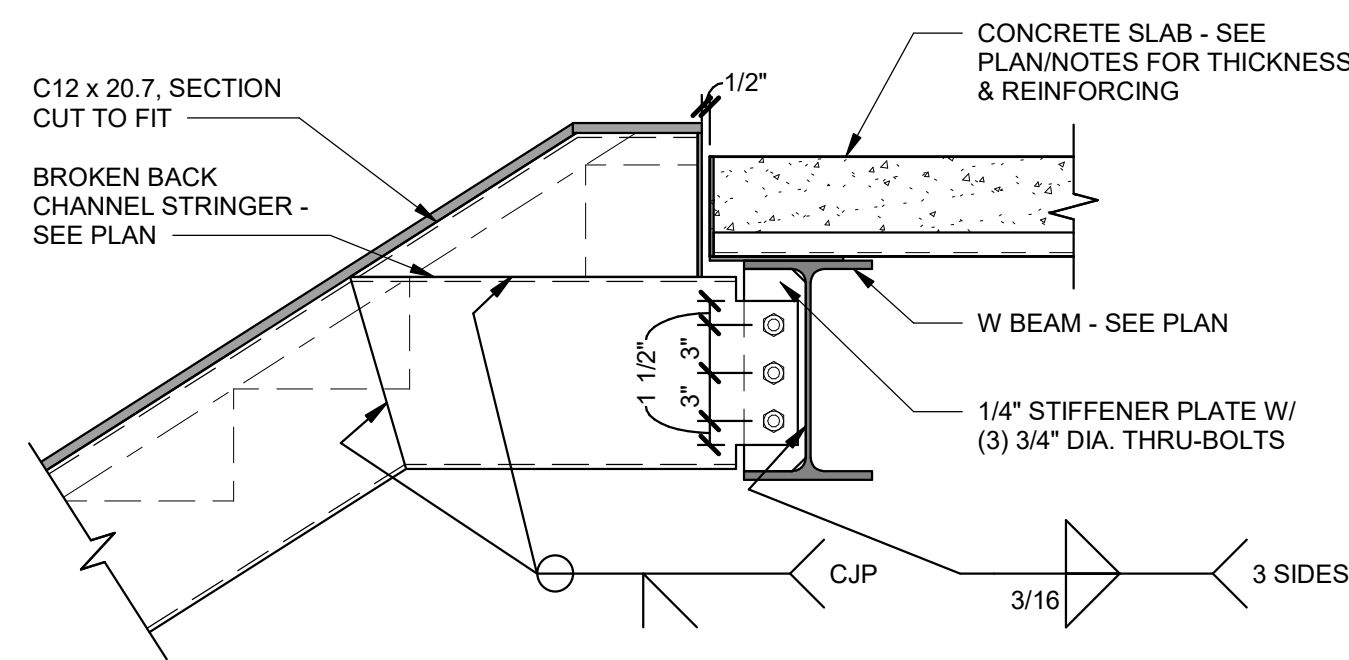
ENLARGED SOUTH STAIR PLAN  
SCALE : 1/4" = 1'-0"

B  
S121



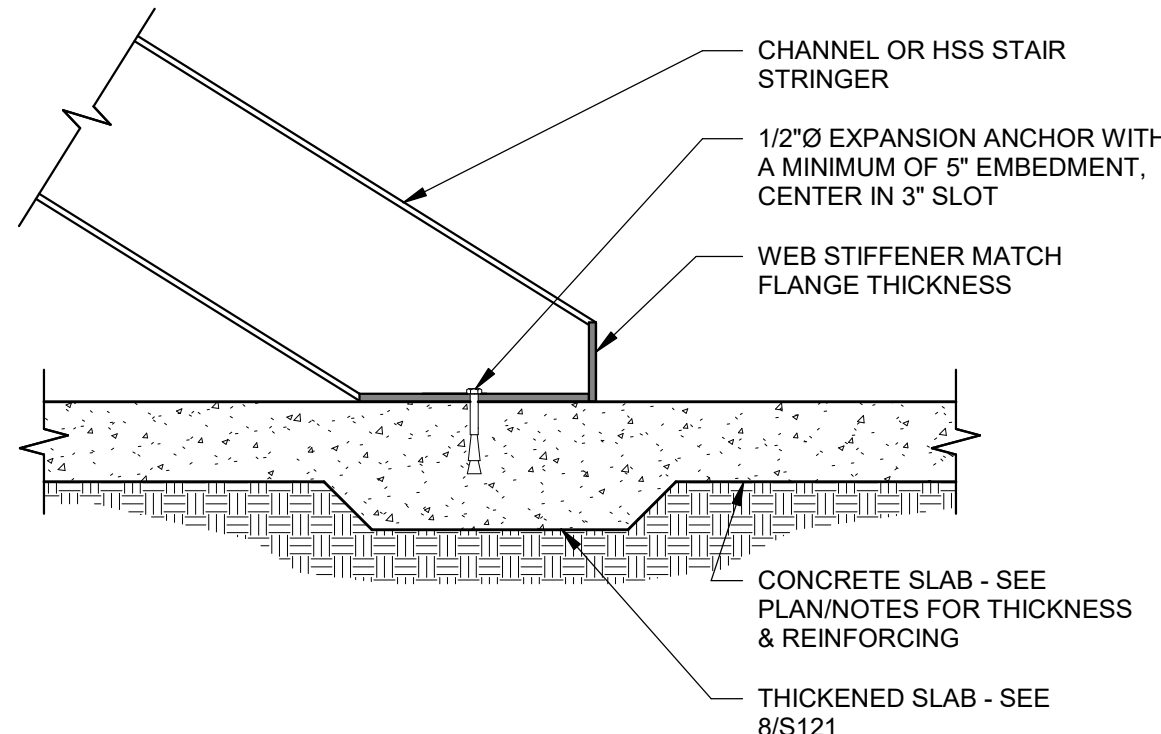
ENLARGED NORTH STAIR PLAN  
SCALE : 1/4" = 1'-0"

C  
S121



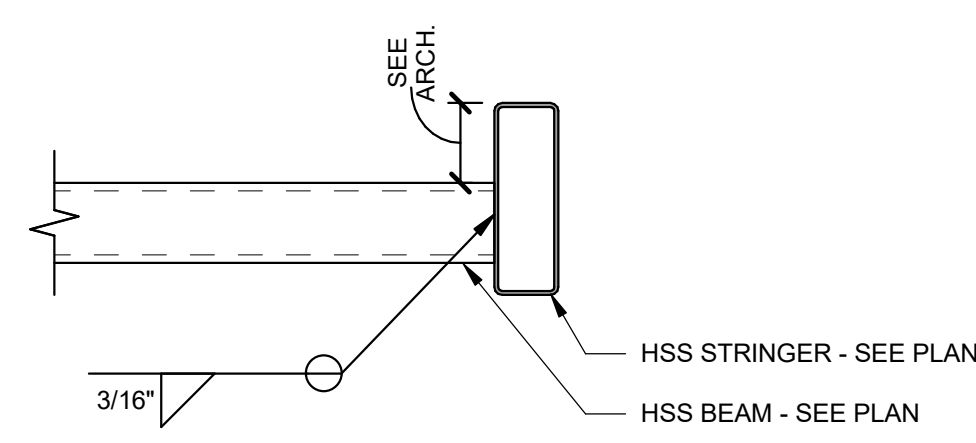
CHANNEL STAIR STRINGER TO FLOOR FRAMING  
SCALE : NONE

1  
S121



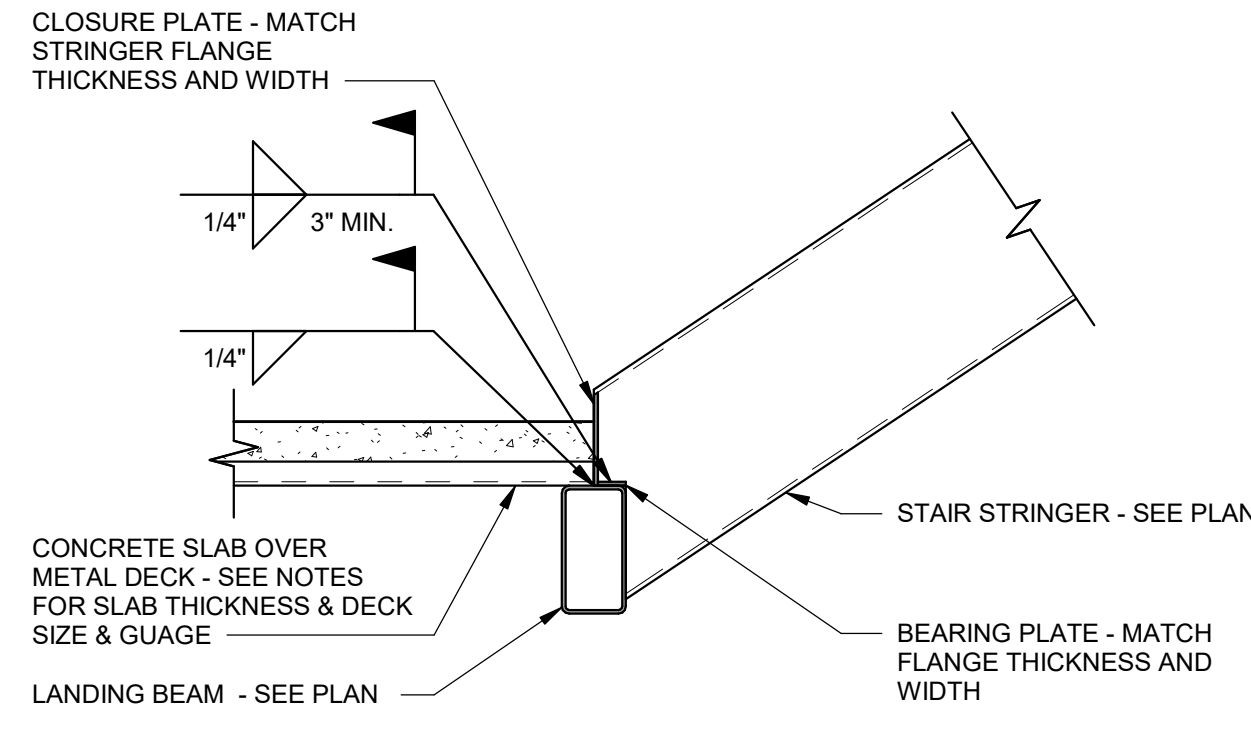
THICKENED SLAB @ STAIR  
SCALE : NONE

2  
S121



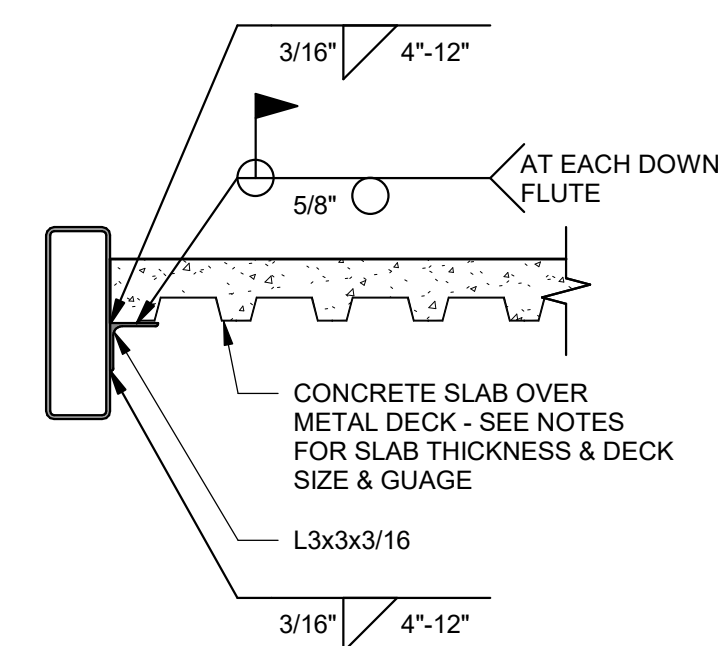
STAIR STRINGER TO FLOOR FRAMING  
SCALE : NONE

3  
S121



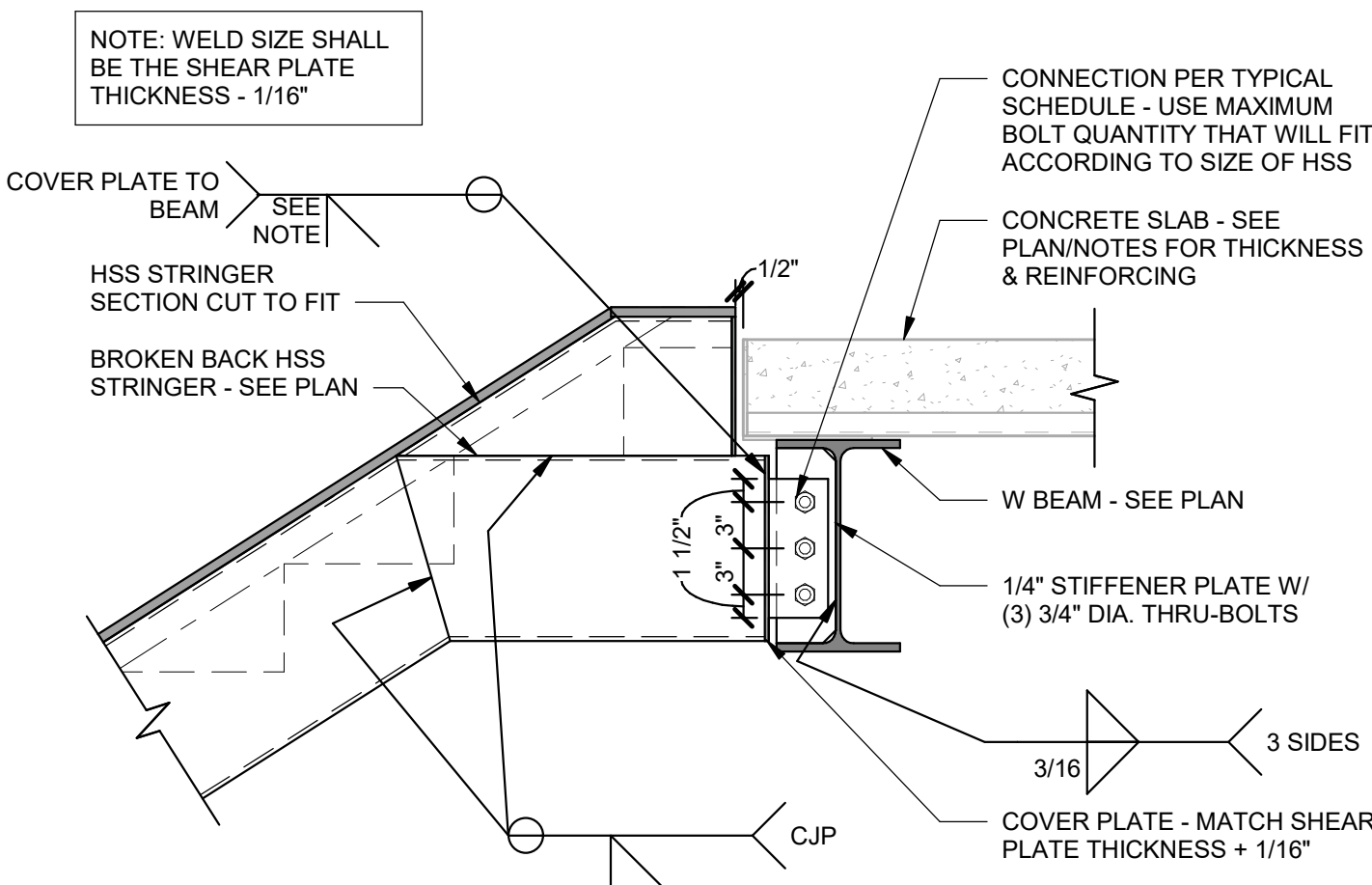
DECK ON MASONRY  
SCALE : NONE

4  
S121



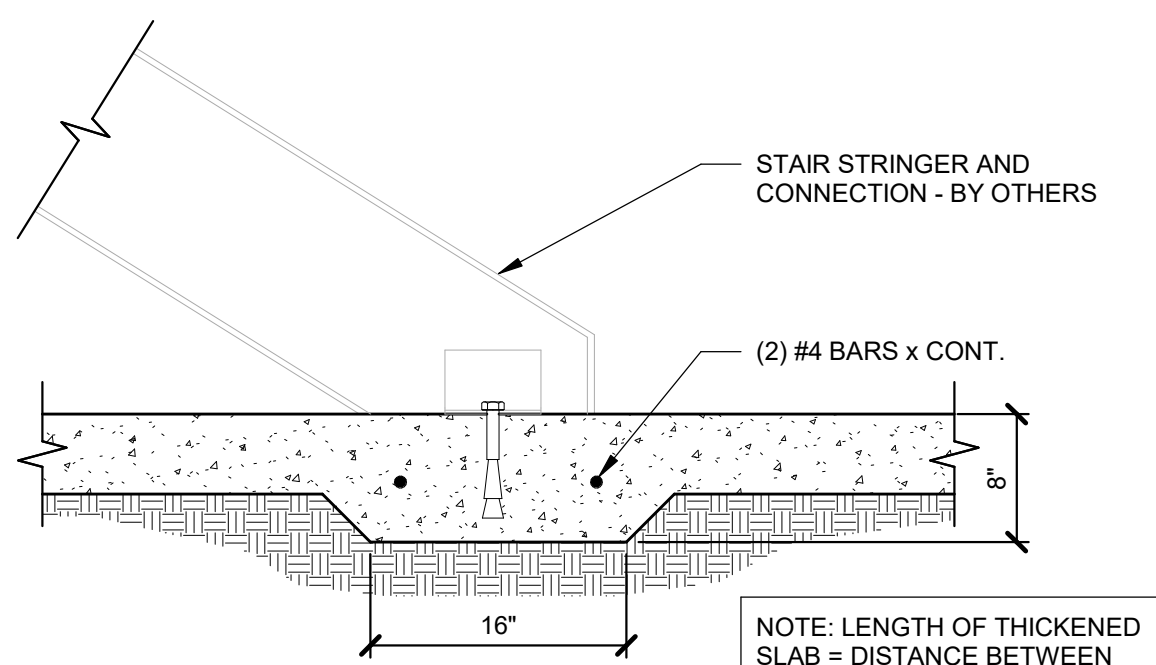
STAIR STRINGER TO FLOOR FRAMING  
SCALE : NONE

5  
S121



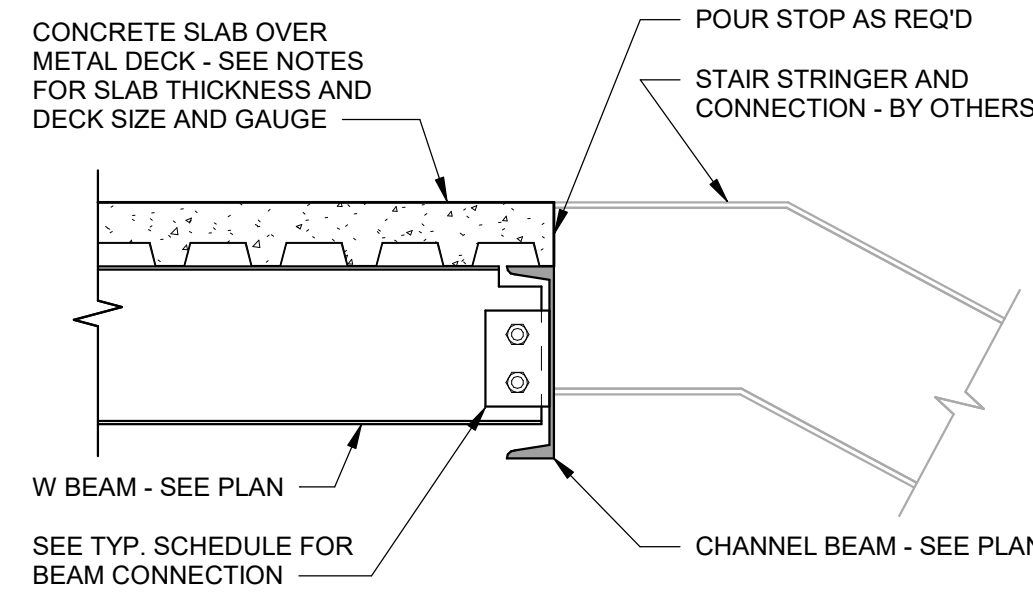
HSS STAIR STRINGER TO FLOOR FRAMING  
SCALE : NONE

6  
S121



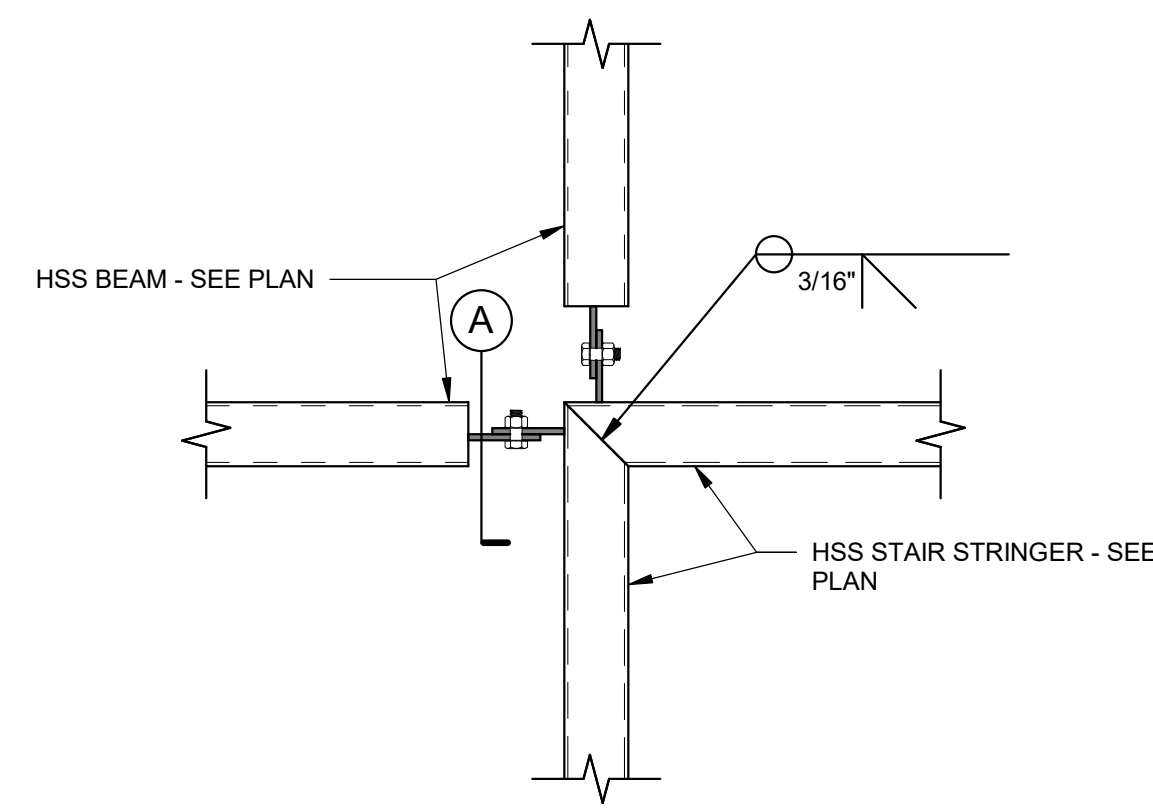
THICKENED SLAB @ STAIR  
SCALE : NONE

7  
S121



STAIR STRINGER TO FLOOR FRAMING  
SCALE : NONE

8  
S121



DETAIL  
SCALE : NONE

9  
S121

VOCBO

SALT LAKE CITY, UT - HQ  
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VOCBO NUMBER: Project Number  
DATE: 12-17-2025

Professional Engineer  
No. 10396006-2203  
Ark  
Higgs  
STATE OF UTAH  
04/10/15

ARW ENGINEERS

1000 W. 2000 SOUTH  
SALT LAKE CITY, UT 84119  
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REV	DATE	DESCRIPTION
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HERRIMAN, UT

4684 W 12600 S  
RIVERTON, UT 84096  
BID SET

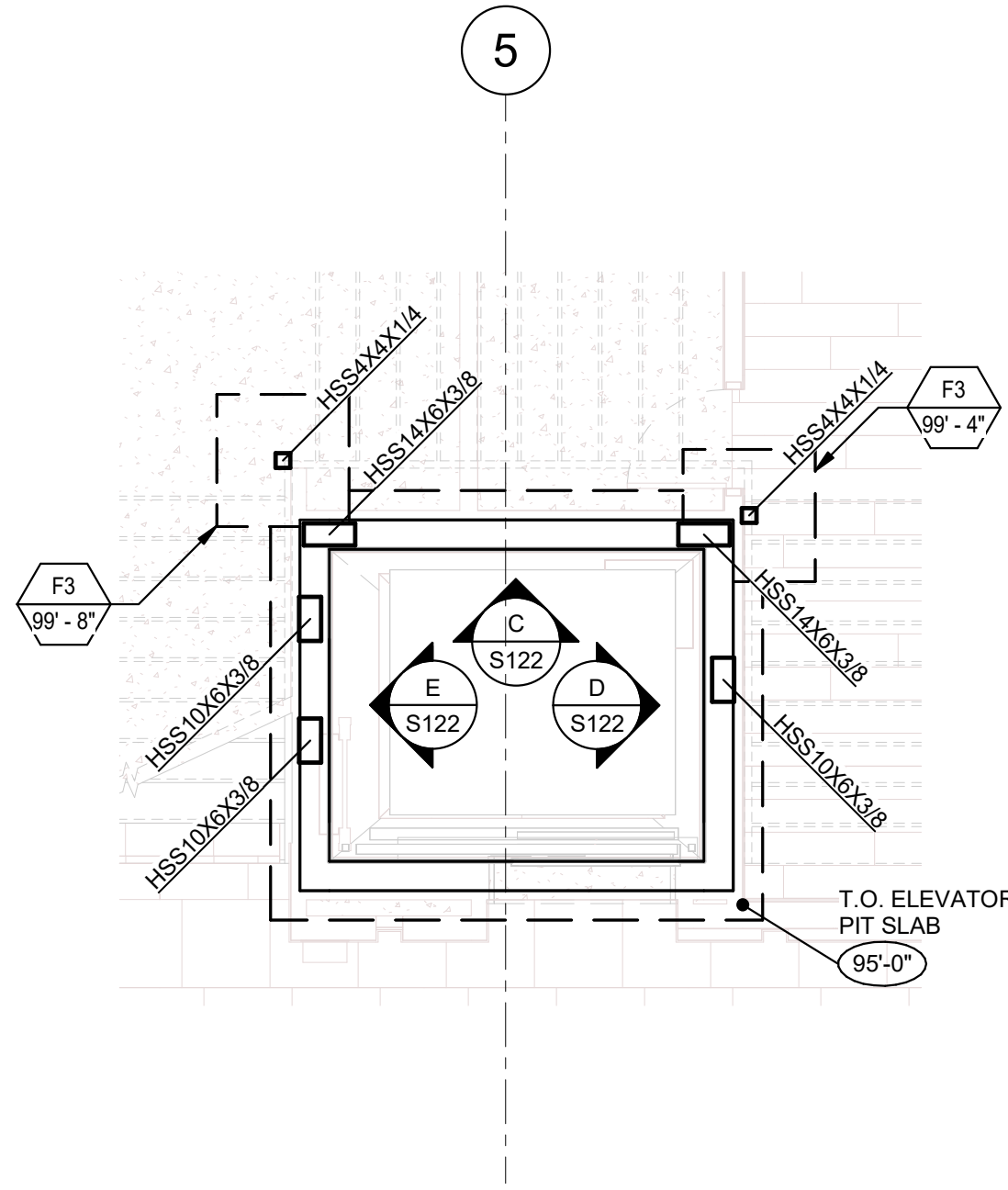
ENLARGED PLAN AT STAIRS

S121

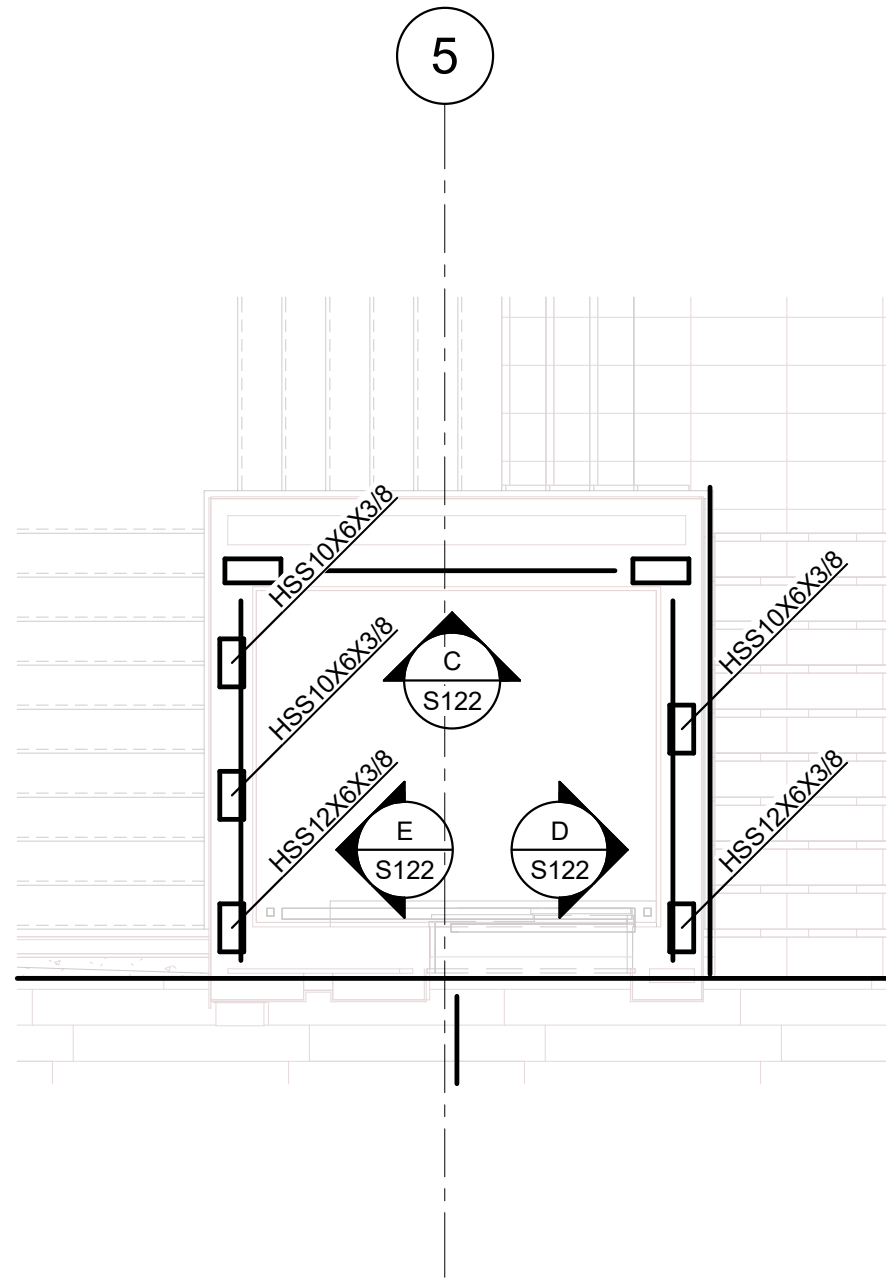
12/15/2025 11:26:12 AM



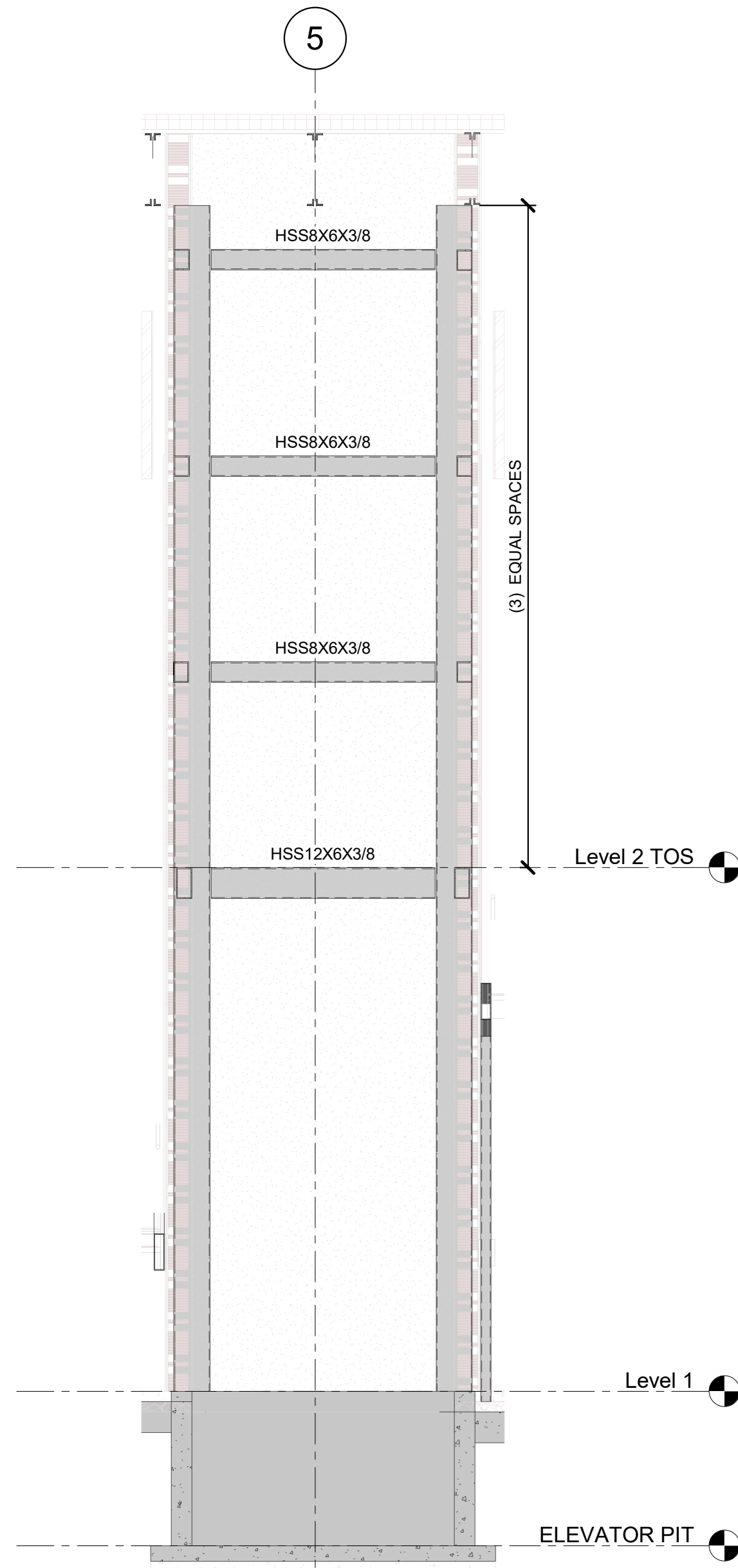
12/15/2025 11:26:15 AM Autodesk Docs/250955.00 - Life Time Fitness - Herriman UT/S - 25090 - Lileime Fitness Herriman - 2025.rvt



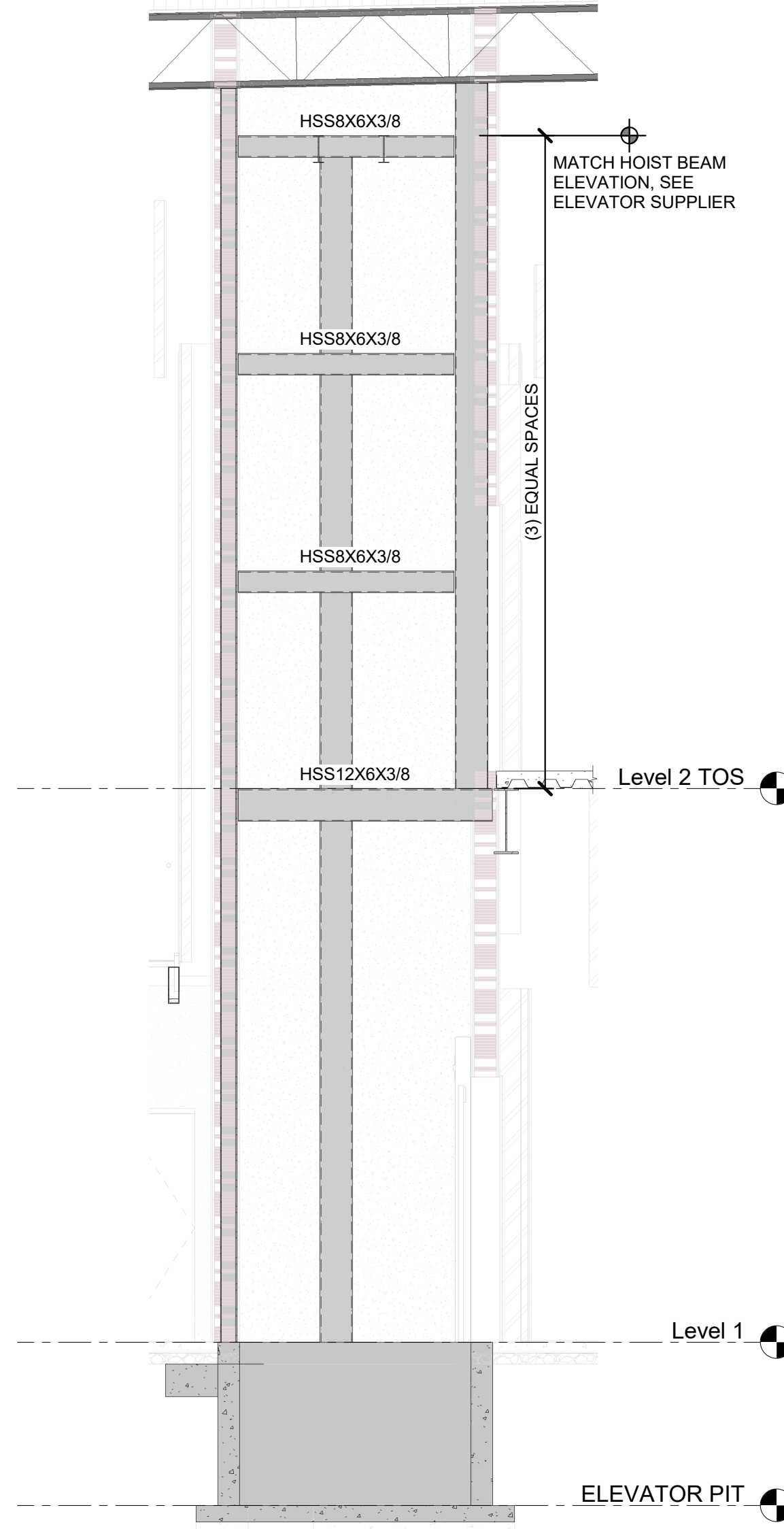
ENLARGED CENTRAL ELEVATOR - FOOTING & FOUNDATION PLAN  
SCALE : 1/4" = 1'-0"



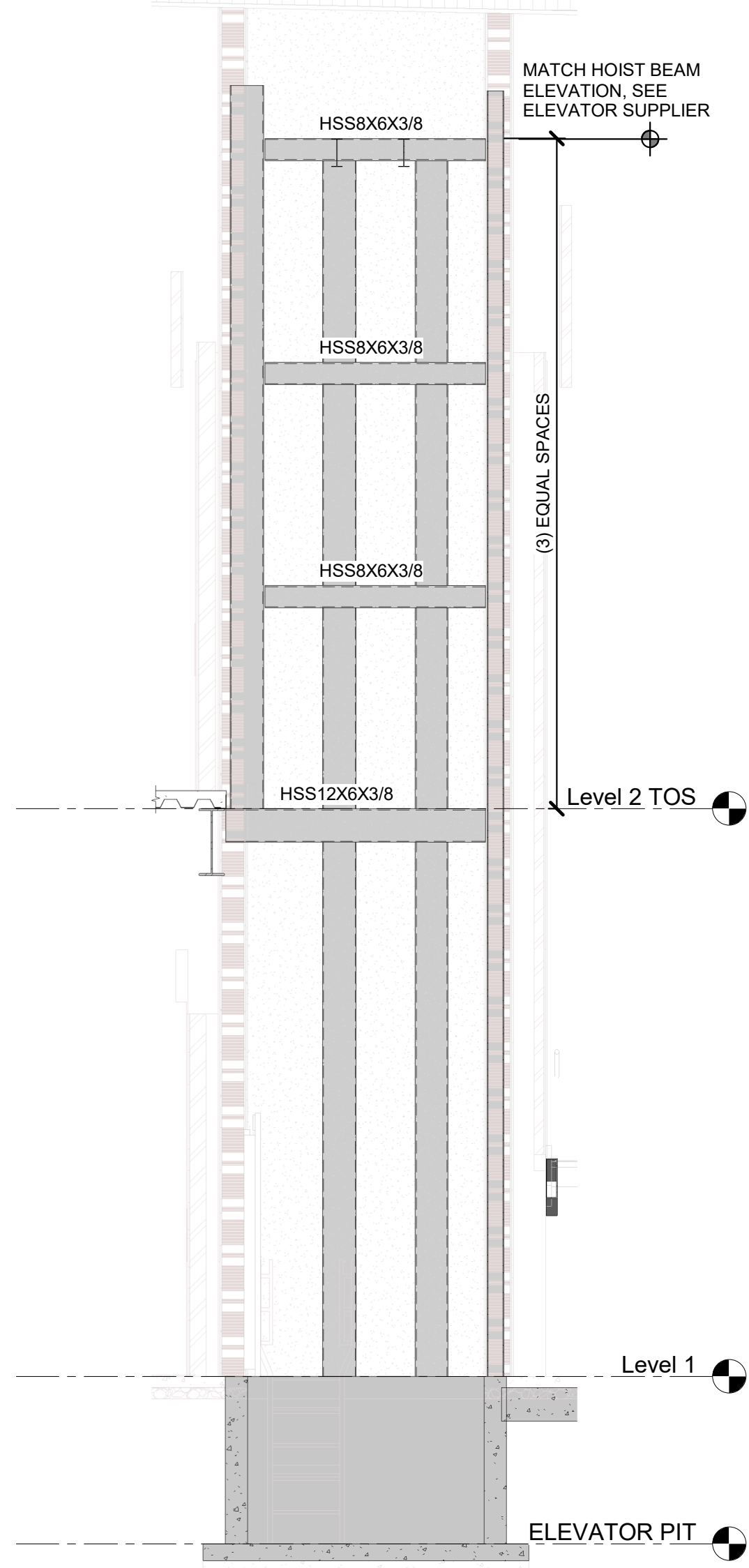
ENLARGED CENTRAL ELEVATOR - SECOND FLOOR FRAMING PLAN  
SCALE : 1/4" = 1'-0"



ELEVATION  
SCALE : NONE



ELEVATION  
SCALE : NONE



ELEVATION  
SCALE : NONE

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DATE: 12-17-2025



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REV	DATE	DESCRIPTION
1	20250926	Addendum 001

HERRIMAN, UT

4684 W 12600 S  
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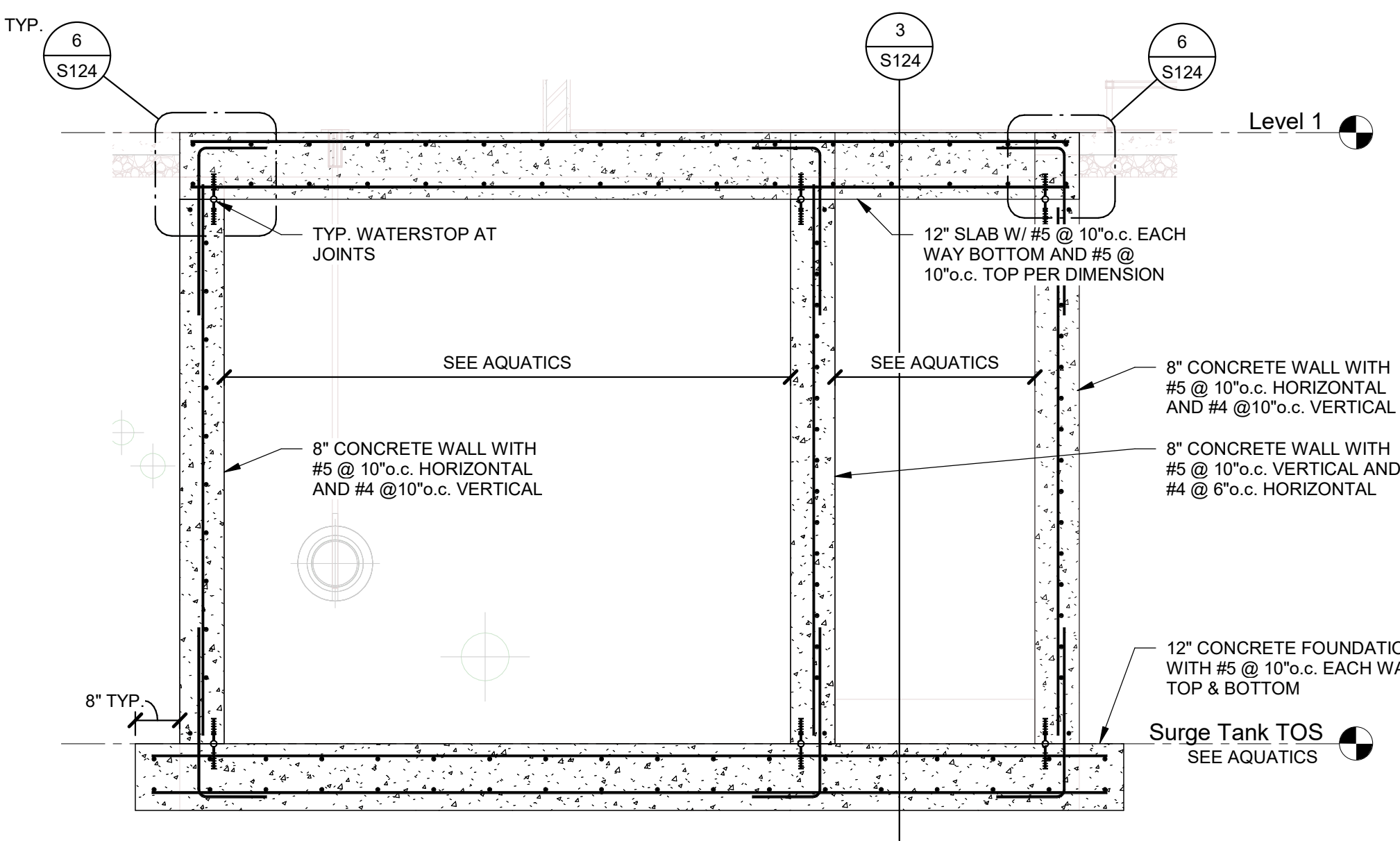
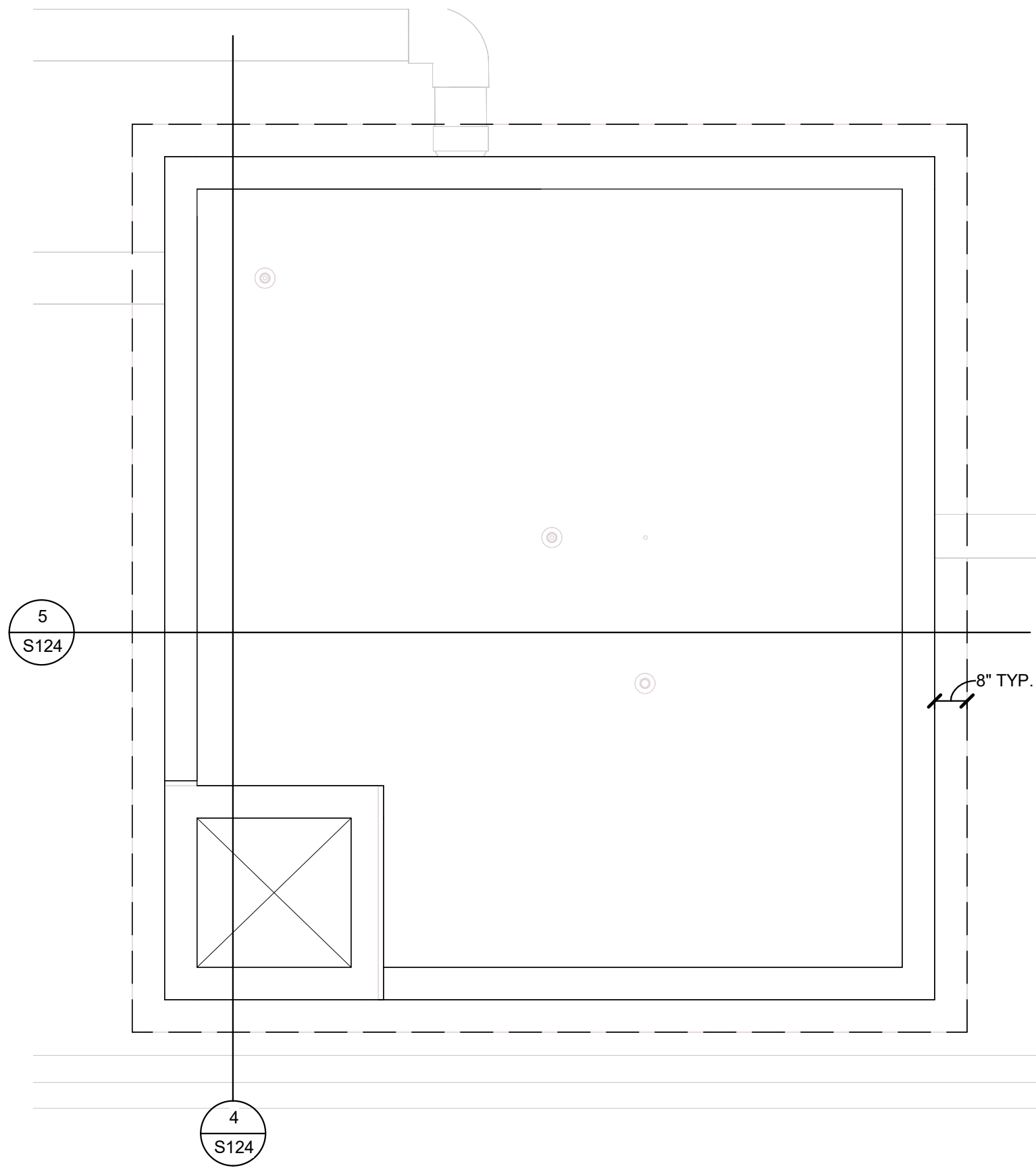
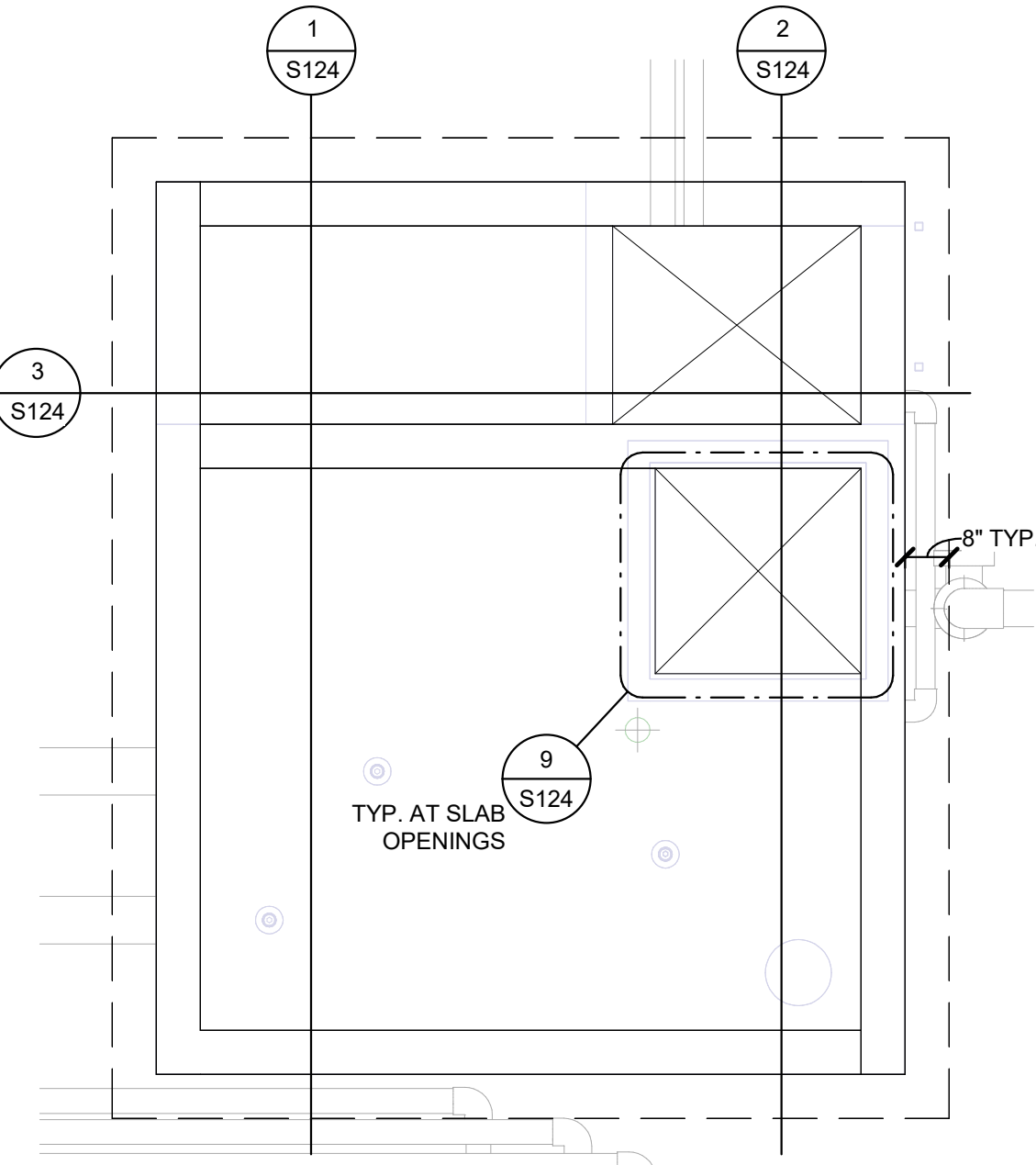
ENLARGED PLANS AT  
ELEVATOR

S122

12/15/2025 11:26:15 AM

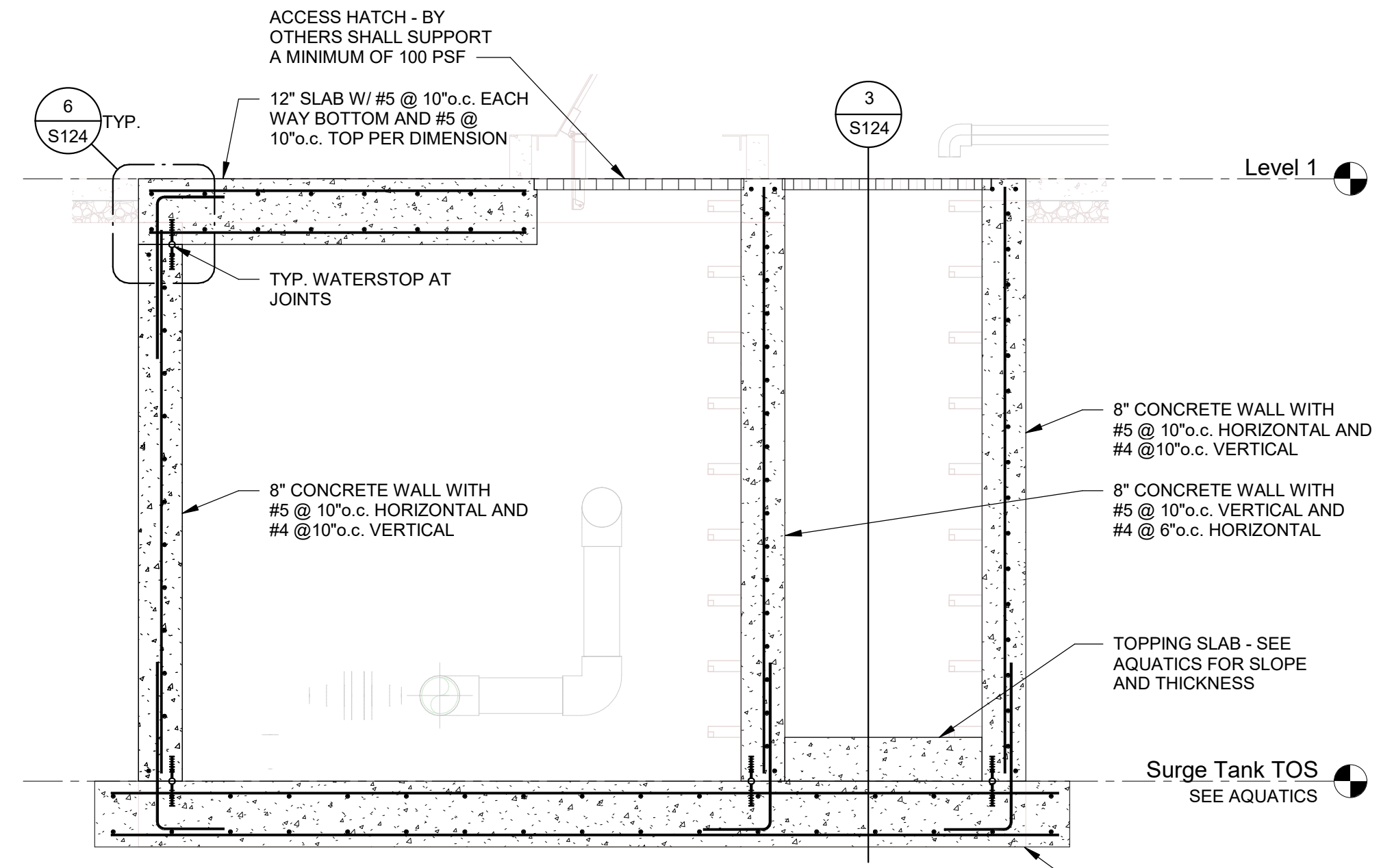


12/15/2025 11:26:17 AM Autodesk Docs/25935.00 - Life Time Fitness - Herriman UT/5 - 25935.00 - Life Time Fitness - Herriman - 2025.01



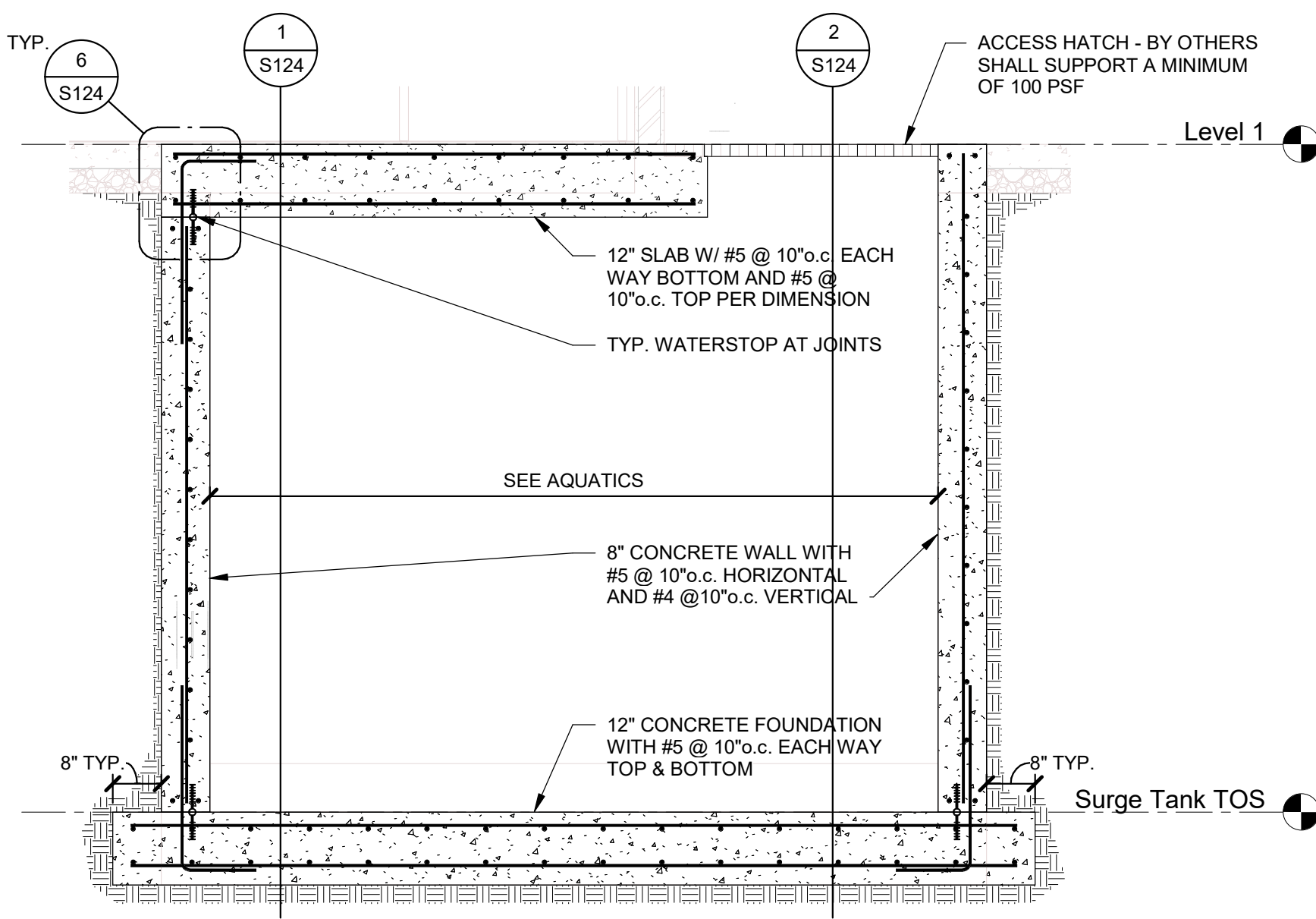
INTERIOR SURGE TANK

SCALE: NONE



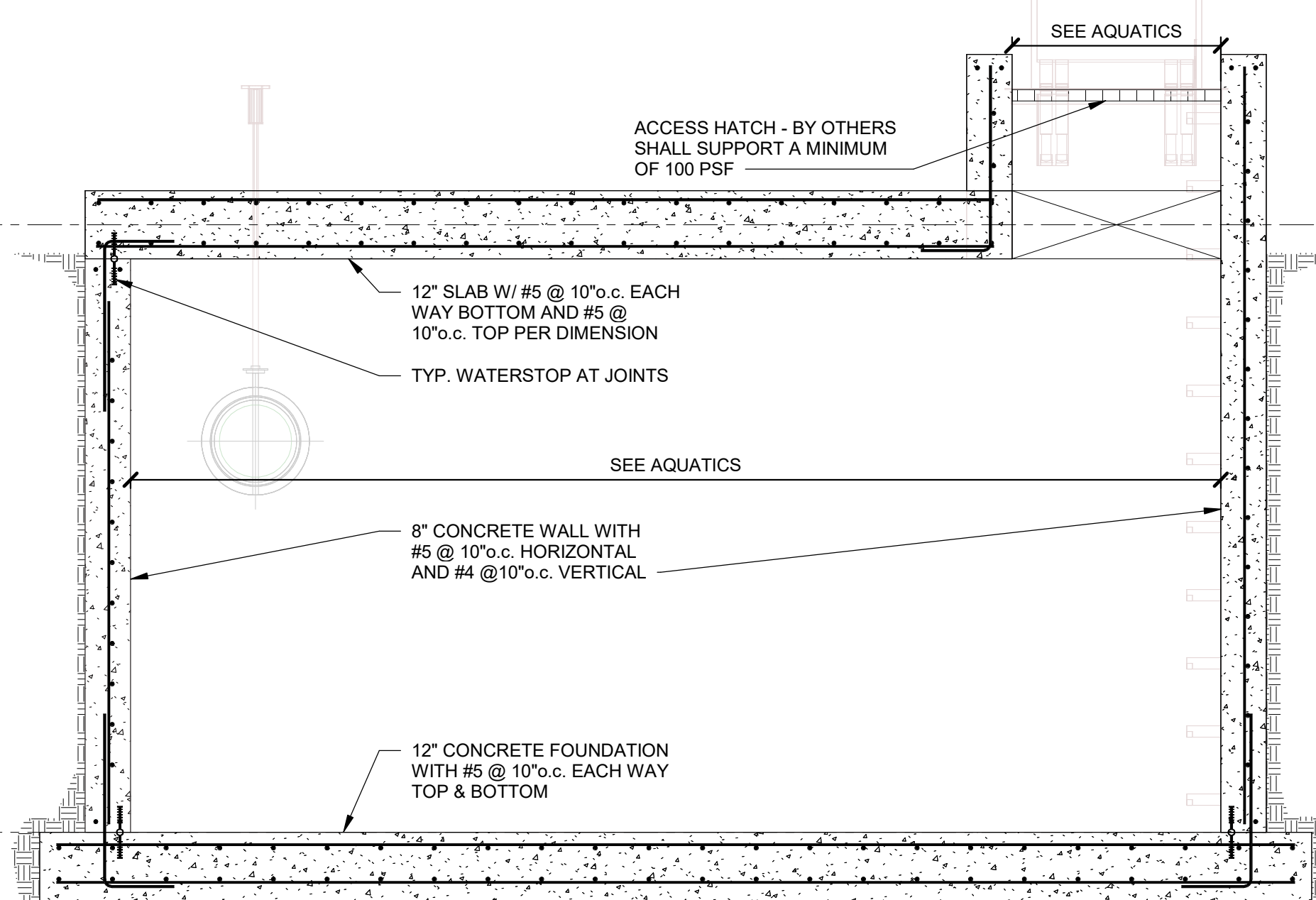
INTERIOR SURGE TANK

SCALE: NONE



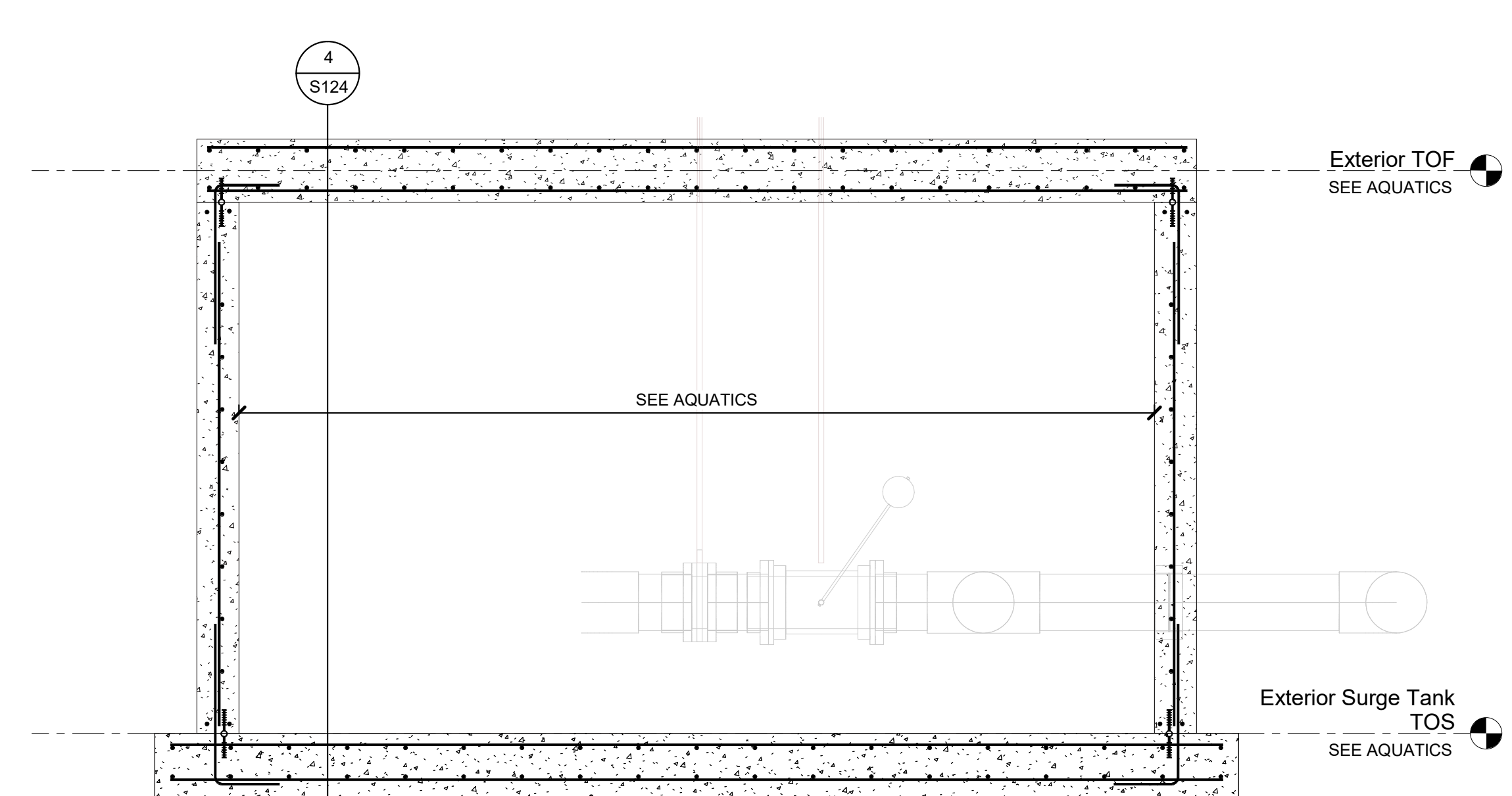
INTERIOR SURGE TANK

SCALE: NONE



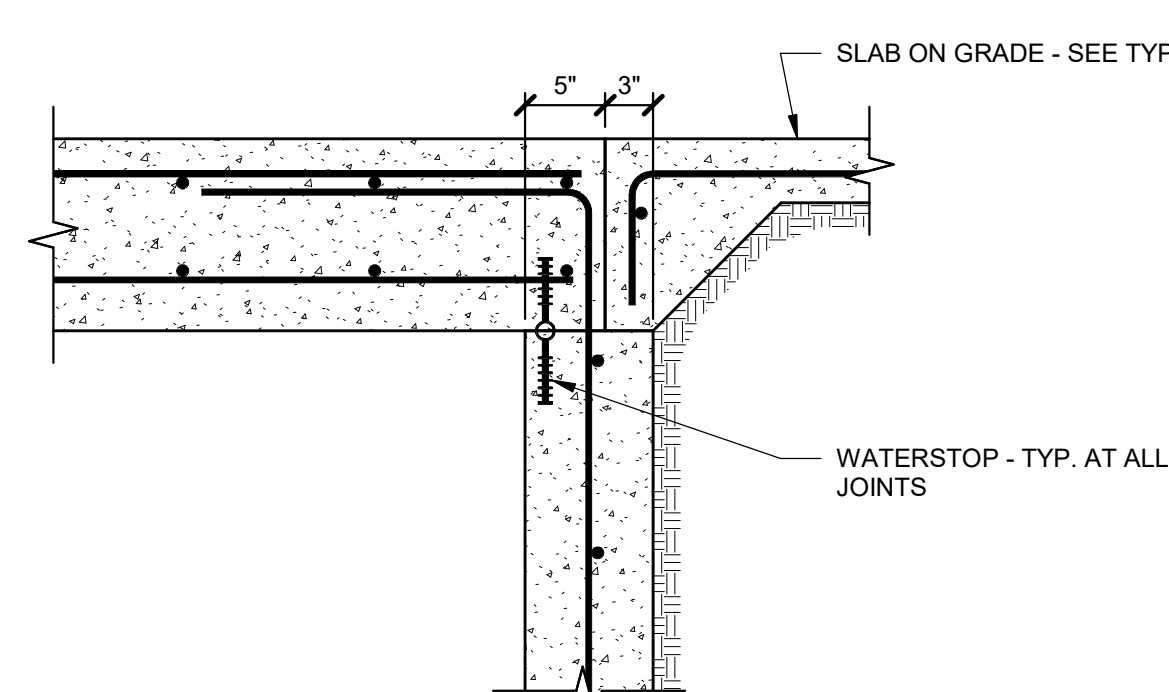
EXTERIOR SURGE TANK

SCALE: NONE



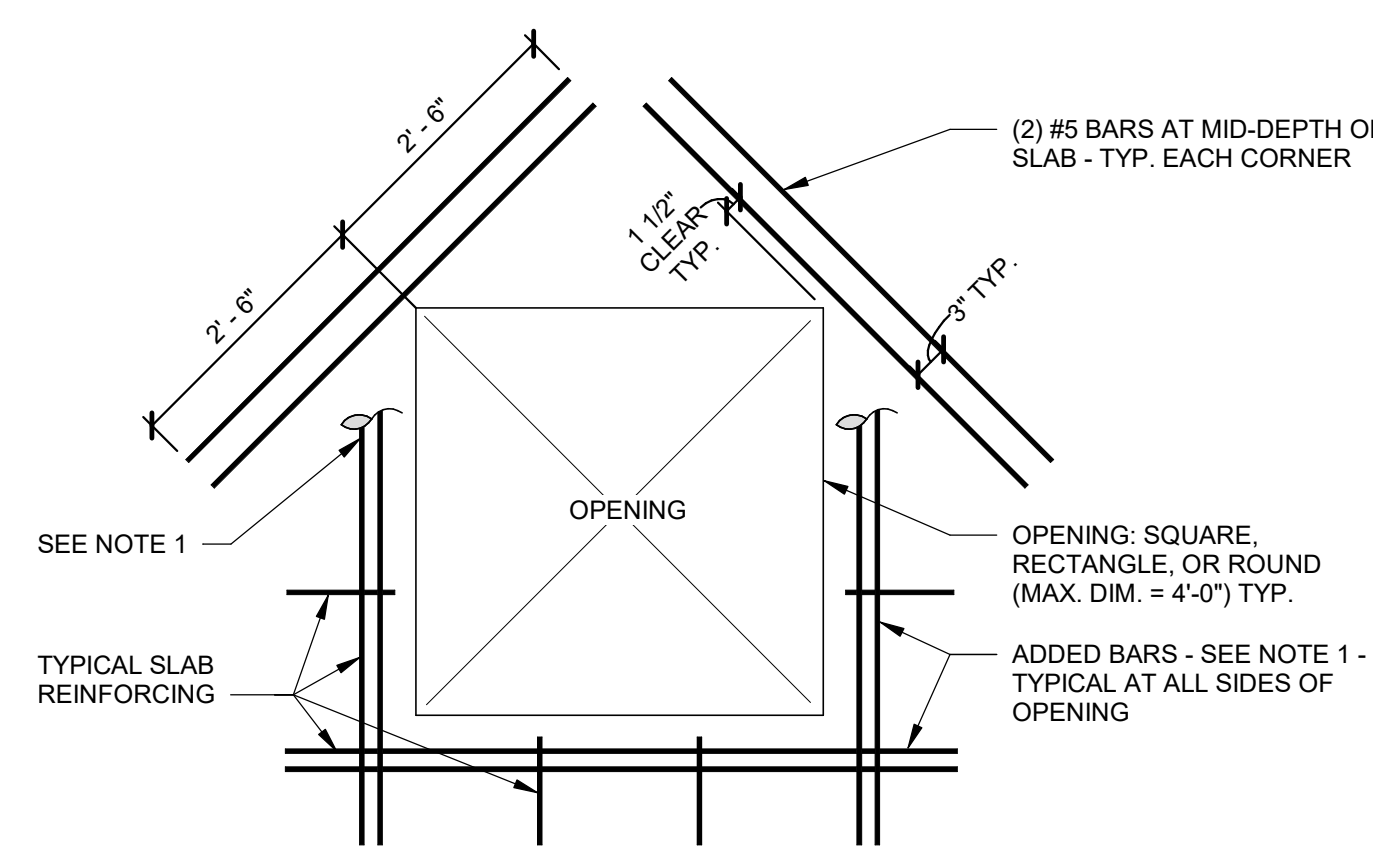
EXTERIOR SURGE TANK

SCALE: NONE



DETAIL

SCALE: NONE



- NOTES:
1. ALL TOP AND BOTTOM SLAB BARS INTERRUPTED BY THE OPENING SHALL BE REPLACED BY ADDITIONAL REINFORCING EQUAL TO THAT INTERRUPTED. PLACE HALF OF THE ADDITIONAL REINFORCING ON EACH SIDE OF THE OPENING AND EXTEND INTO THE FLOOR SLAB/WALL BY THE REQUIRED DEVELOPMENT LENGTH AS SPECIFIED IN THE REBAR LAP SPICE SCHEDULE.
  2. BOXED OUT OPENINGS, BOXED RECESSES, AND PIPE SLEEVE CLUSTERS SHALL BE TREATED AS FRAMED SLAB OPENINGS.

TYPICAL REINFORCING @ CONCRETE WALL & SLAB OPENINGS DETAIL

SCALE: NONE

VOCBO

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VOCBO.COM

VOCBO NUMBER: Project Number  
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REV	DATE	DESCRIPTION
1	20250926	Addendum 001

HERRIMAN, UT

4684 W 12600 S  
RIVERTON, UT 84096  
BID SET

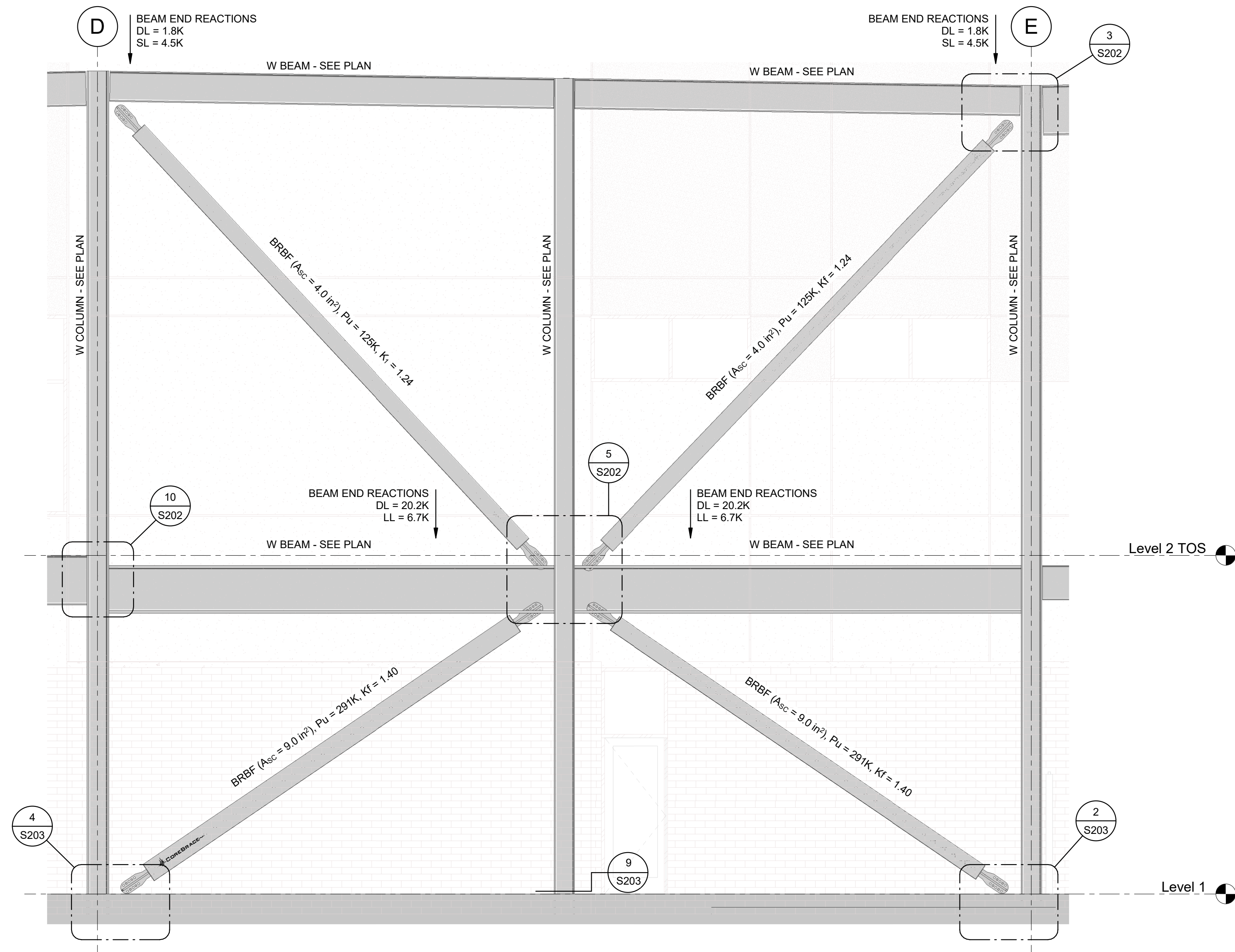
ENLARGED PLAN AT SURGE TANK

S124

12/15/2025 11:26:17 AM



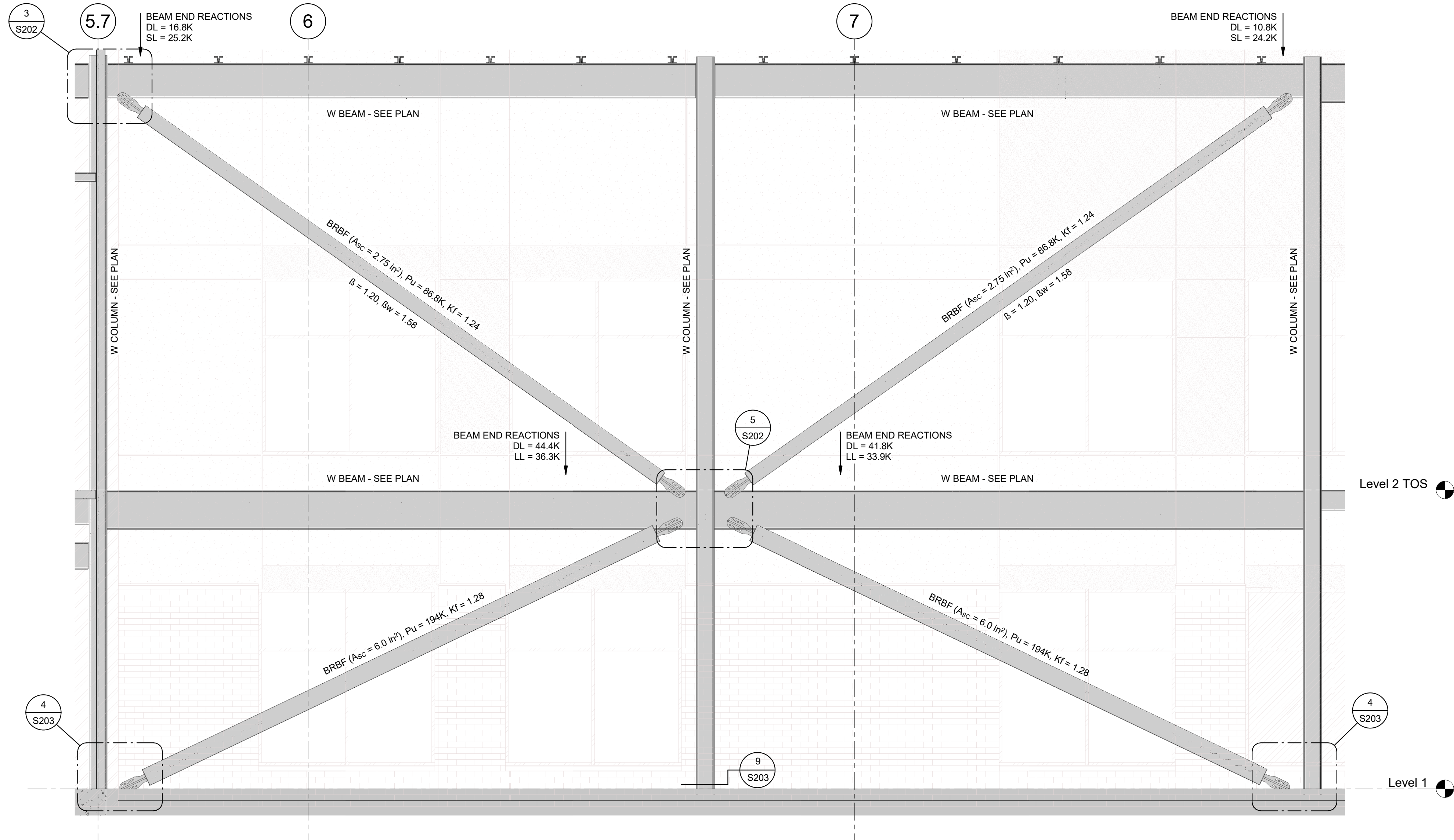
12/15/2025 11:26:21 AM Autodesk Docs/250955.00 - Life Time Fitness - Herriman UT/5 - 25090 - LifeTime Fitness Herriman - 2025.rvt



B.F. ELEVATION ALONG GRID 9

SCALE: 1/4" = 1'-0"  
SEE S202 FOR BRACED FRAME NOTES

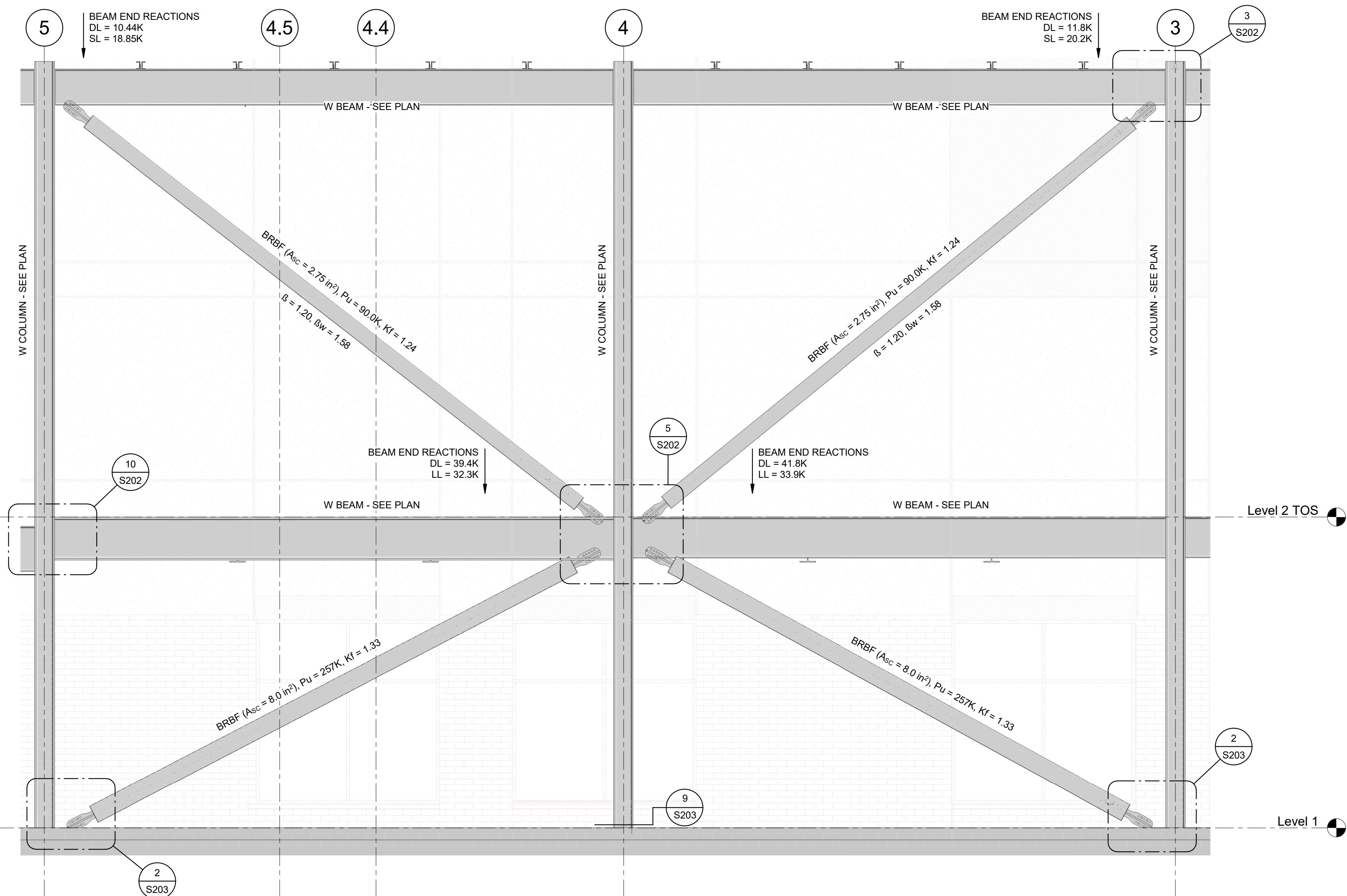
A  
S201



B.F. ELEVATION ALONG GRID B

SCALE: 1/4" = 1'-0"  
SEE S202 FOR BRACED FRAME NOTES

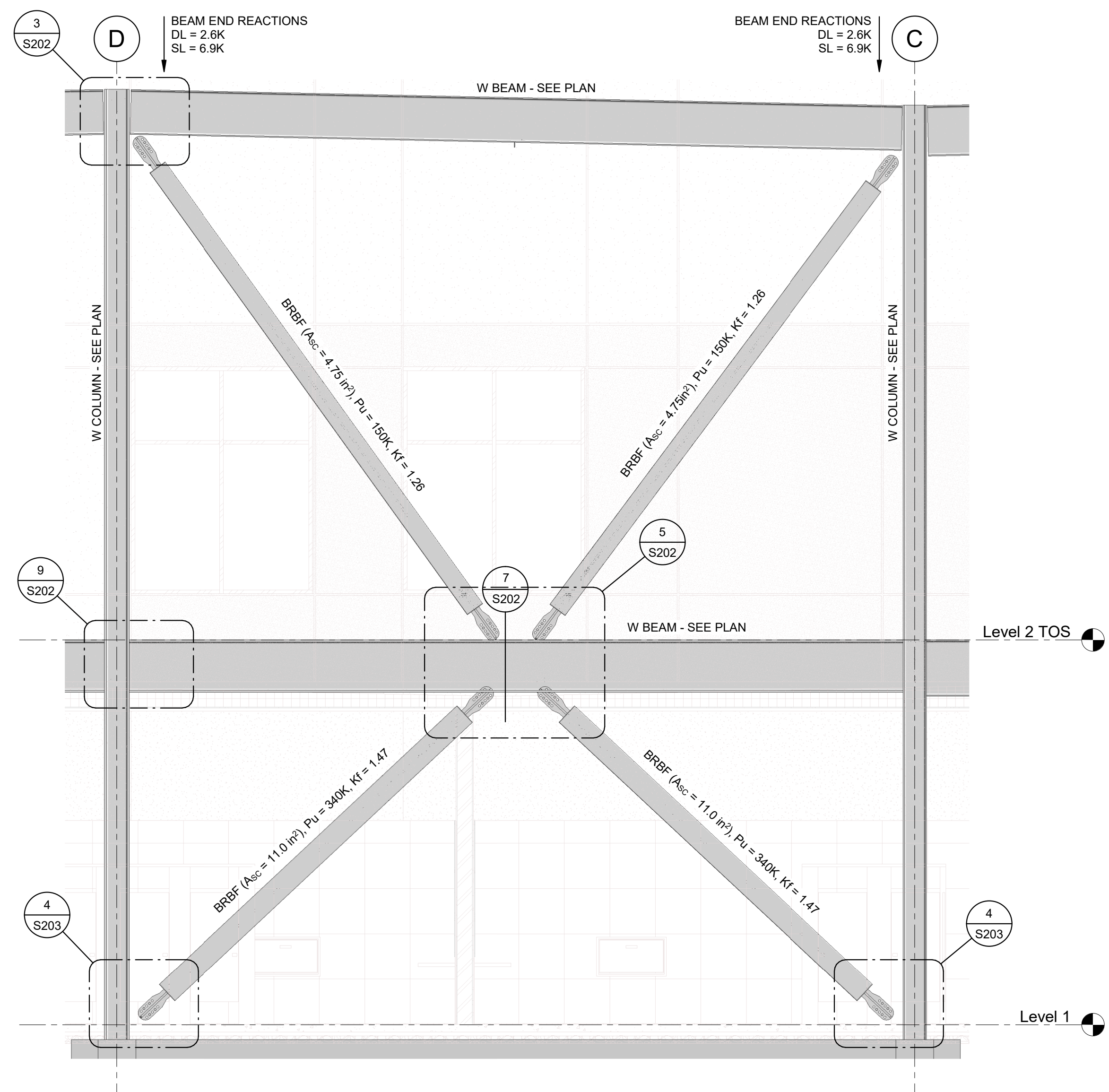
B  
S201



B.F. ELEVATION ALONG GRID F

SCALE: 1/4" = 1'-0"  
SEE S202 FOR BRACED FRAME NOTES

C  
S201



B.F. ELEVATION ALONG GRID 1

SCALE: 1/4" = 1'-0"  
SEE S202 FOR BRACED FRAME NOTES

D  
S201

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REV	DATE	DESCRIPTION
1	20250926	Addendum 001

HERRIMAN, UT

4684 W 12600 S  
RIVERTON, UT 84096  
BD SET

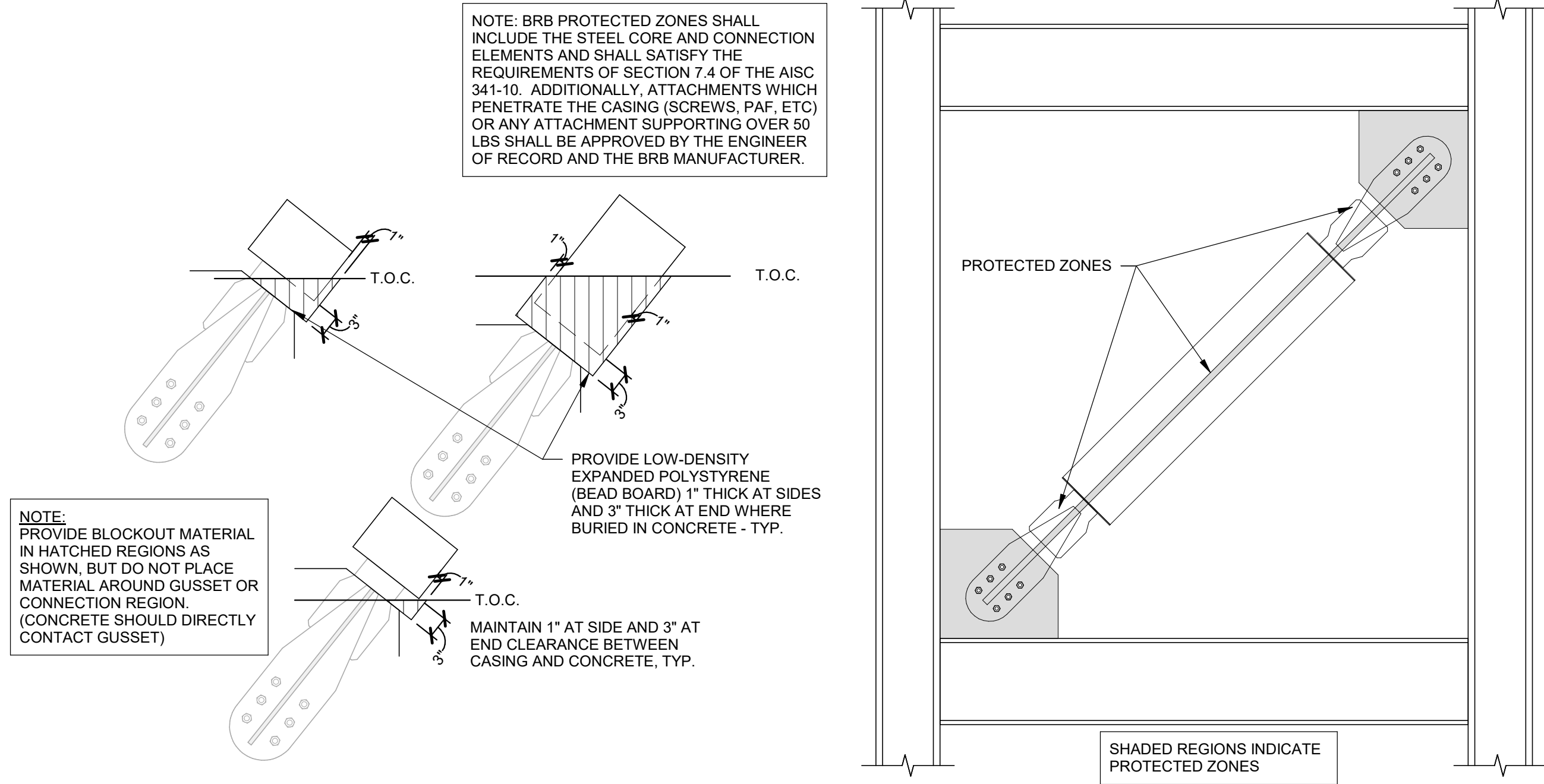
BRACE FRAME ELEVATIONS

S201

12/15/2025 11:26:21 AM

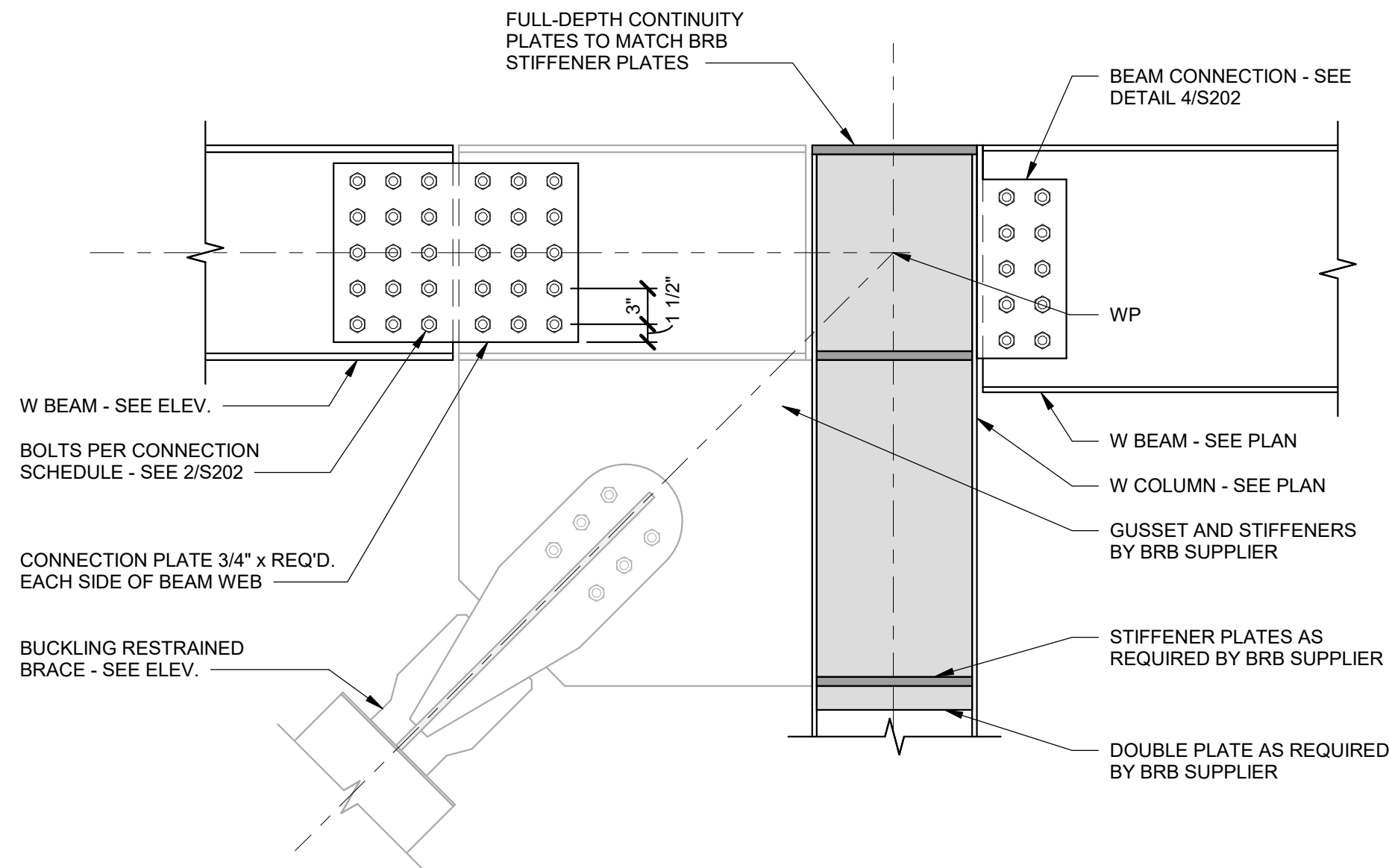


12/15/2025 11:26:23 AM Autodesk Docs/250955.00 - Life Time Fitness - Herriman UT's - 250950 - LifeTime Fitness Herriman - 2025.v1



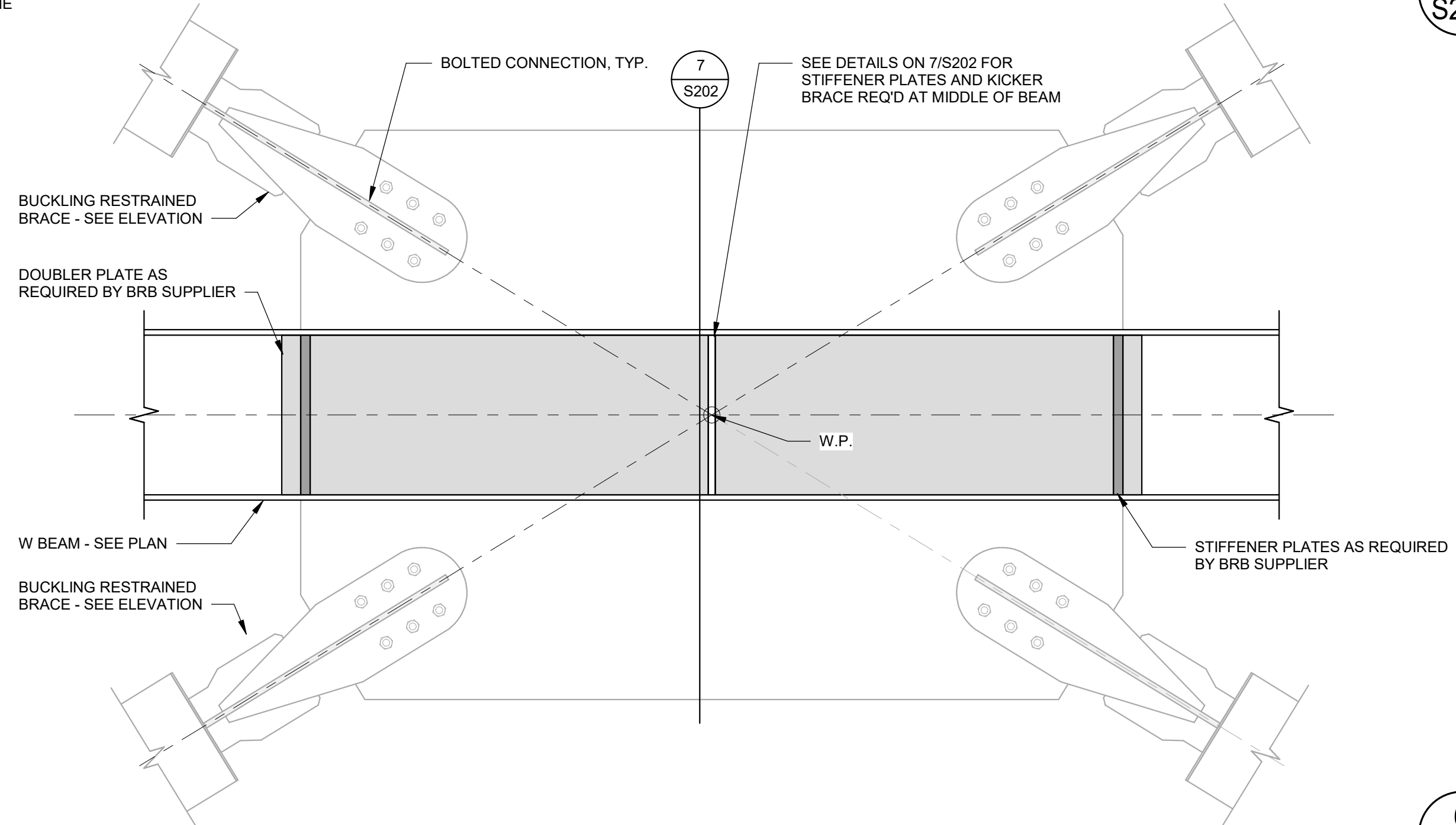
BRB TYPICAL CLEARANCES AROUND CASINGS BURIED IN CONCRETE AND PROTECTED ZONES

SCALE: NONE



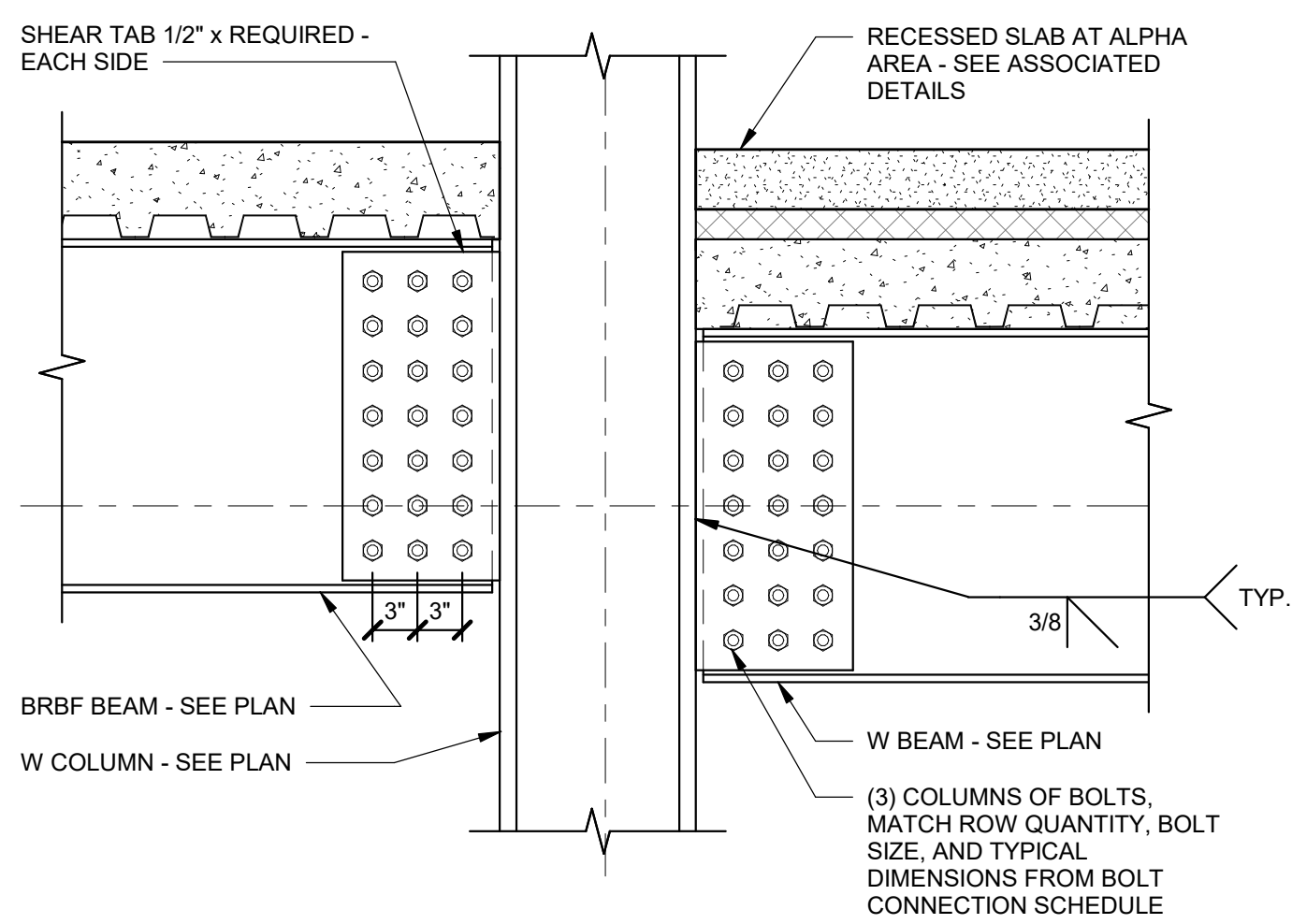
DETAIL

SCALE: NONE



DETAIL

SCALE: NONE



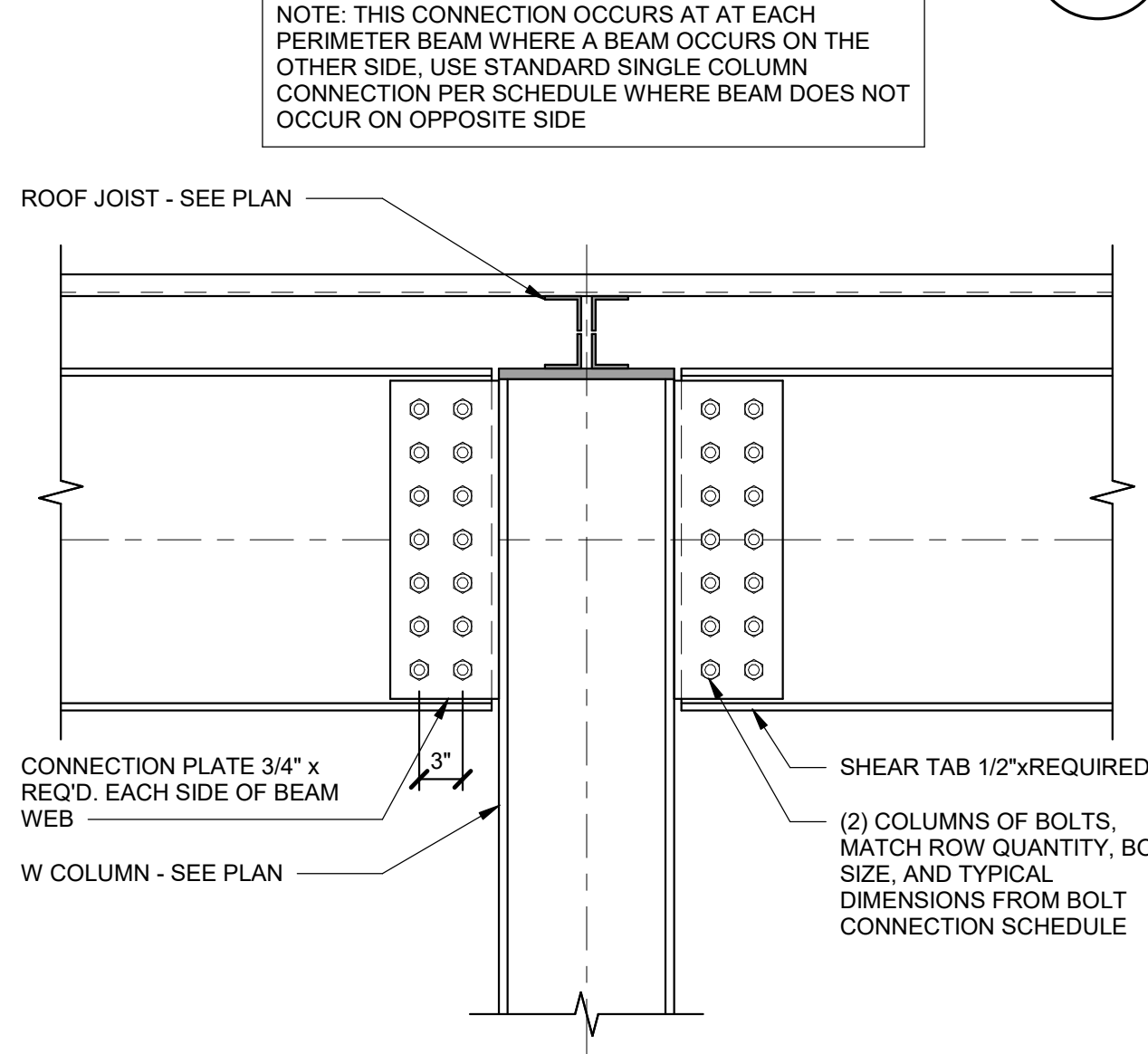
FLOOR DRAG BEAM CONNECTION

SCALE: NONE

BRB BEAM CONNECTION SCHEDULE						
BEAM SIZE	SHEAR PL THICKNESS (in)	BOLT DIAMETER (in)	# OF ROWS OF BOLTS EA. SIDE	# OF BOLTS PER ROW EA. SIDE	'W' (in)	'S' (in)
W18	3/8	3/4	(5)	(3)	3	3
W24	1/2	7/8	(6)	(3)	3	3
W27	1/2	7/8	(7)	(3)	3	3

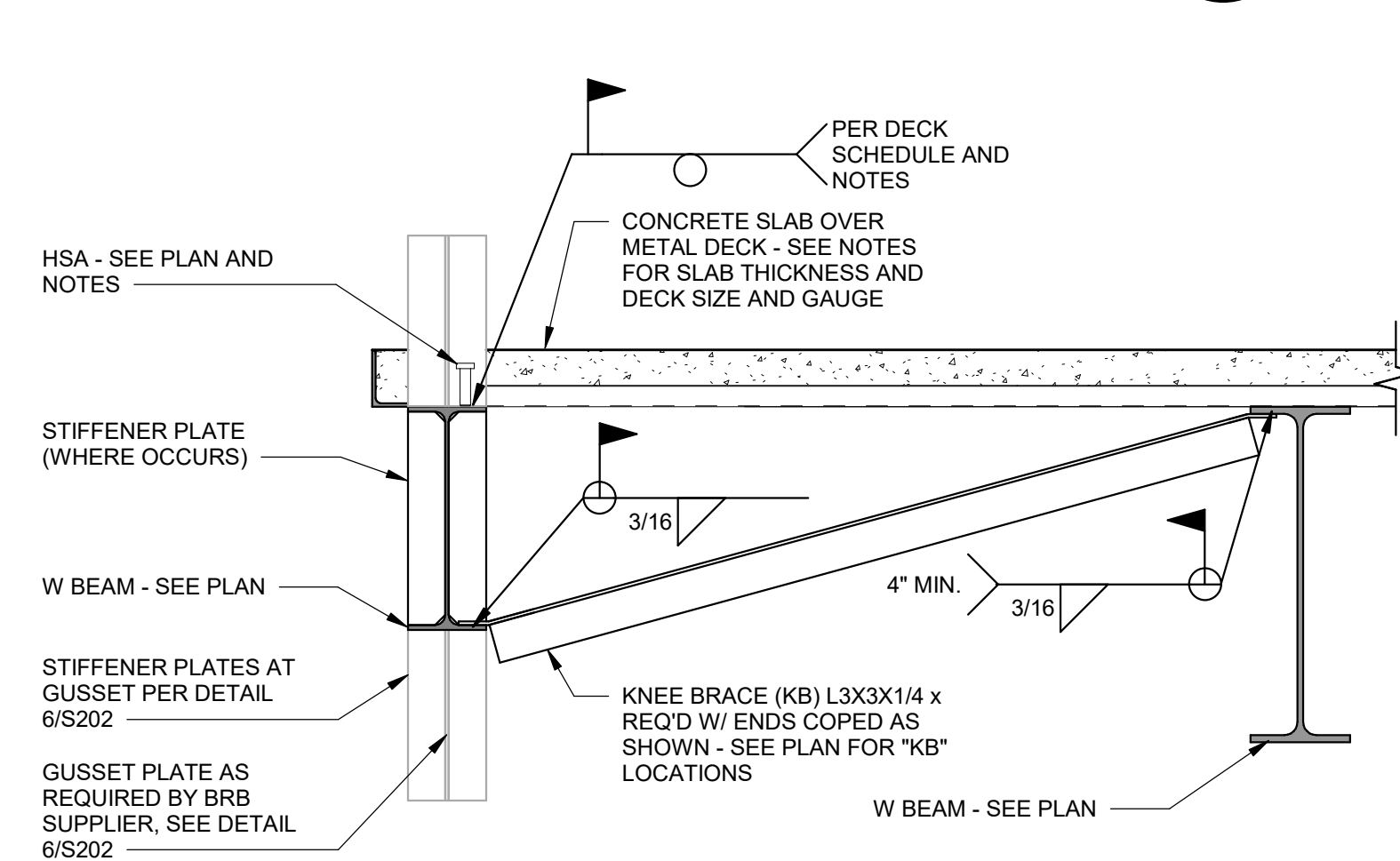
DETAIL

SCALE: NONE



ROOF PERIMETER BEAM CONNECTION

SCALE: NONE

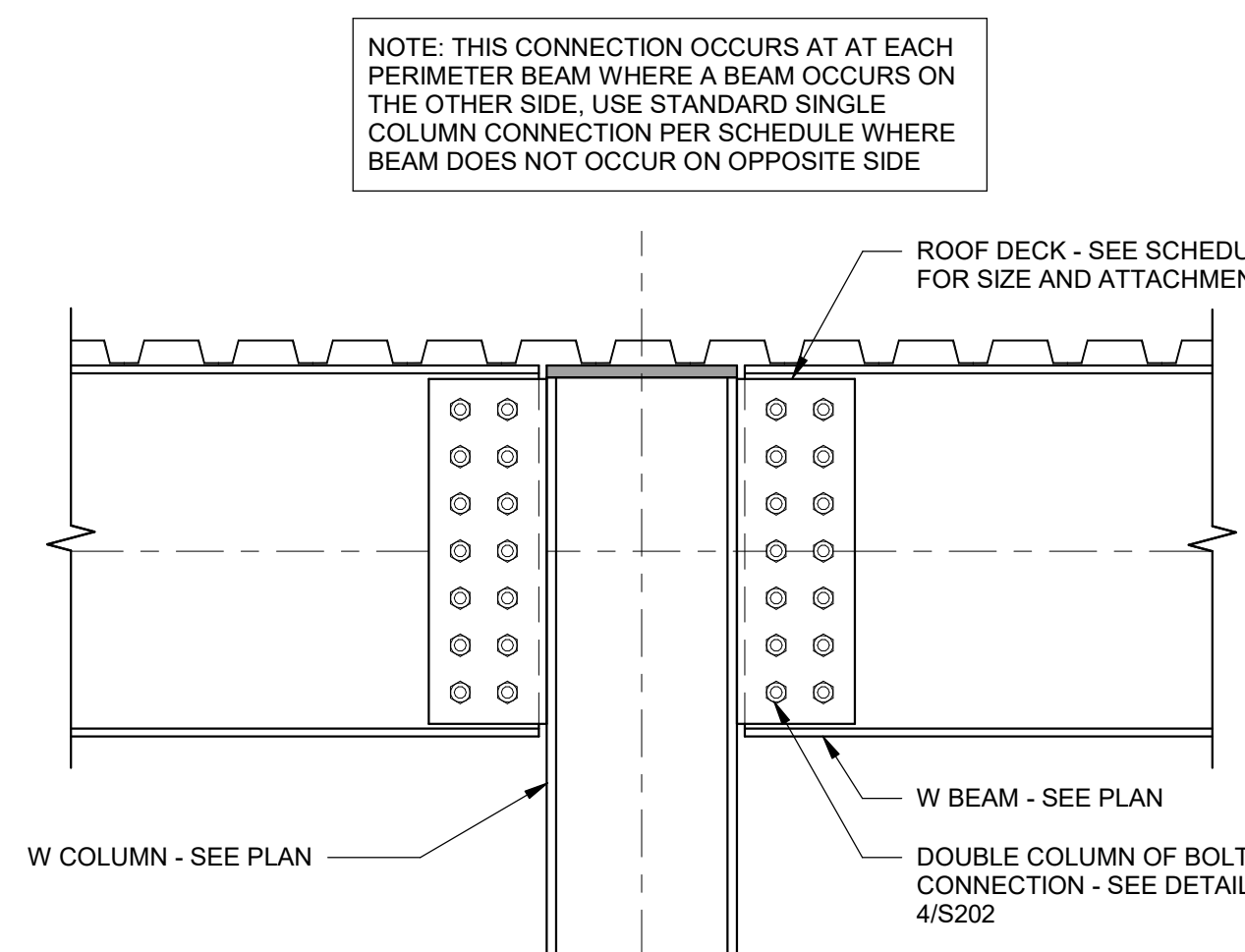


PERPENDICULAR FLOOR JOIST BRACING

SCALE: NONE

DETAIL

SCALE: NONE

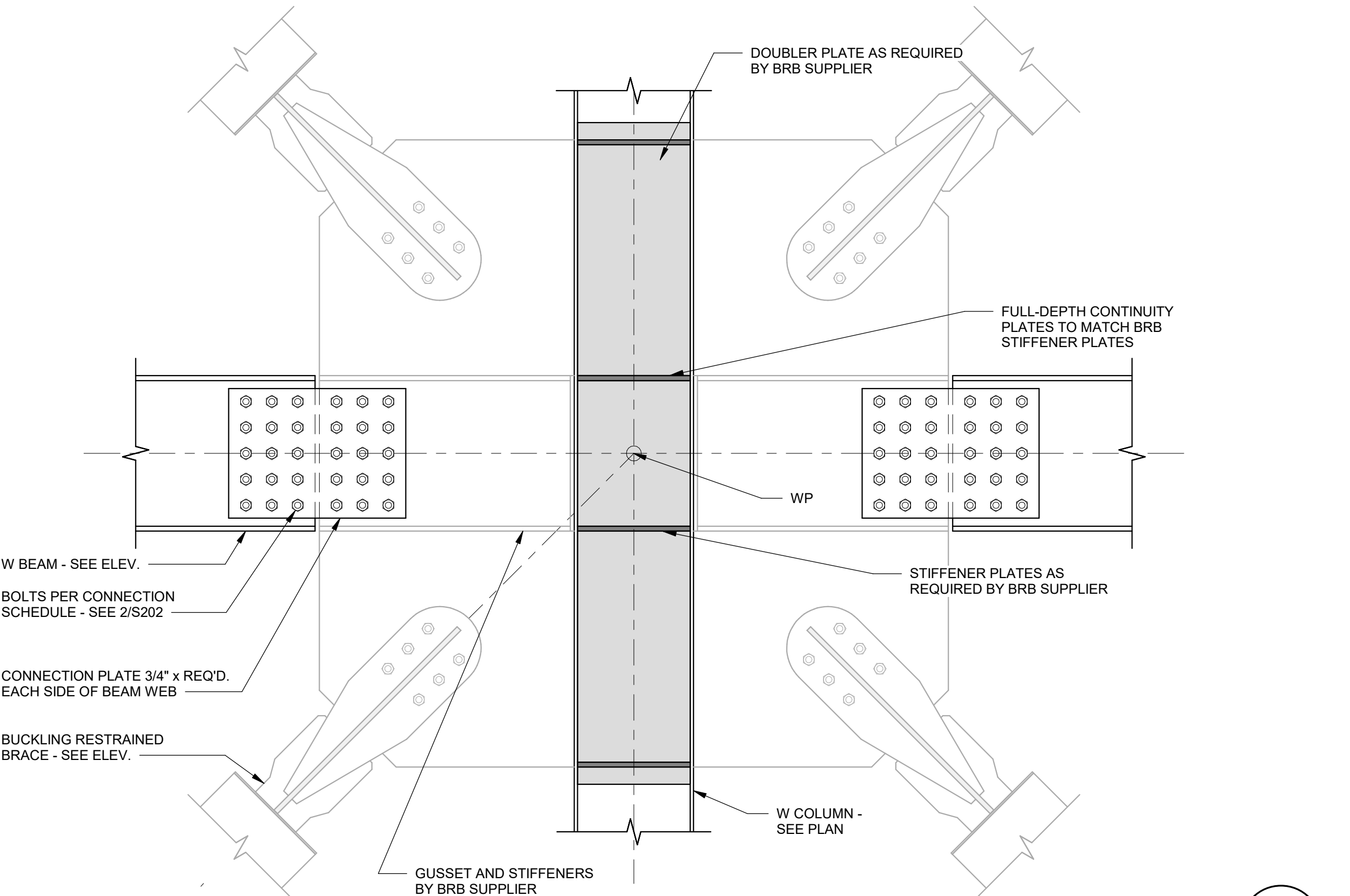


ROOF PERIMETER BEAM CONNECTION

SCALE: NONE

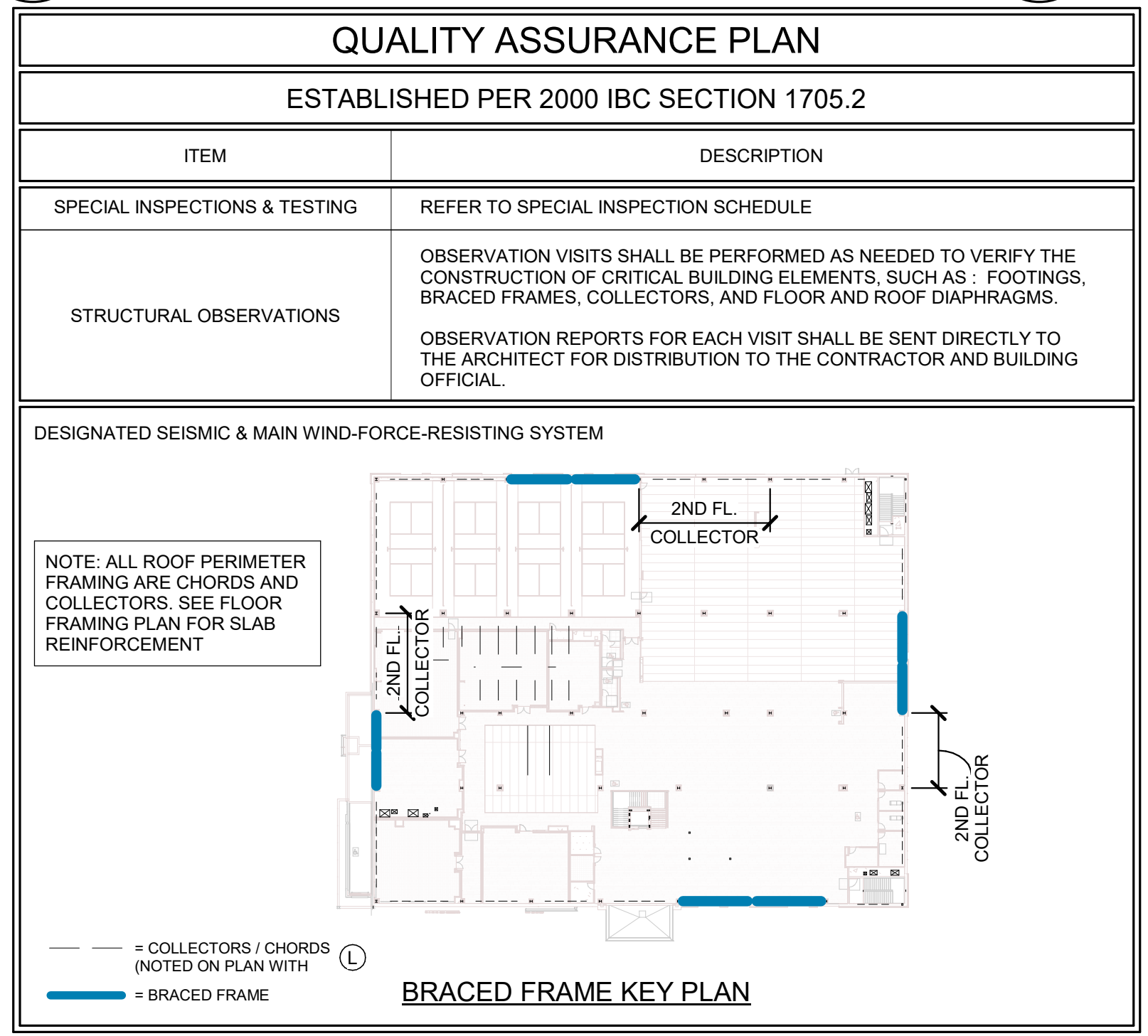
BUCKLING RESTRAINED BRACED FRAME NOTES:

- DESIGN OF GUSSET PLATE AND CONNECTIONS OF PLATES TO COLUMNS AND BEAMS SHALL BE PROVIDED BY THE BRBF SUPPLIER.
- GUSSET PLATES AND PORTIONS OF BRACES EXTENDING 4-1/2" FROM THE END OF THE SLEEVES ARE PROTECTED ZONES. NO WELDS OR ATTACHMENTS MAY BE MADE TO THESE AREAS. SEE TYPICAL DETAILS FOR EXTENT AND LIMITATIONS OF PROTECTED ZONES.
- WHERE BRACES OR GUSSET ELEMENTS ARE EMBEDDED IN SLABS, PROVIDE 1/2" COMPRESSIBLE MATERIAL BETWEEN ELEMENTS AND SLABS.
- ALL BRACES BELOW FLOOR FRAMING MUST BE INSTALLED PRIOR TO POURING CONCRETE FLOORS.
- BUCKLING RESTRAINED BRACES SHALL BE DESIGNED AND TESTED AS FOLLOWS:
  - BUCKLING RESTRAINED BRACES ARE TO BE TESTED PER THE PROVISIONS OF AISC 341-16. BRACE SUPPLIER SHALL SUBMIT PROOF OF EACH BRACE'S COMPLIANCE WITH THE QUALIFIED LOAD AND STRAIN RANGES.
  - P<sub>u</sub> IS THE GOVERNING CODE LEVEL FORCE IN THE BRACE BASED ON LRFD FORCE LEVELS. SEE BRACED FRAME ELEVATIONS. P<sub>u</sub> ≤ 0.9A<sub>sc</sub>F<sub>ymin</sub>.
  - THE ACTUAL YIELD STRESS OF THE STEEL CORE (F<sub>y</sub>) SHALL BE DETERMINED BY A COUPON TEST (38 KSI ≤ F<sub>y</sub> ≤ 46 KSI). CHARPY TESTING IS REQUIRED WHEN THE THICKNESS OF THE CORE MATERIAL EXCEEDS 2".
  - BRACE STIFFNESS, K<sub>br</sub>, TO BE CALCULATED AS K<sub>br</sub> = E<sub>br</sub>I<sub>br</sub>/L<sub>wp</sub> (10%), WHERE THE VALUES FOR THE STIFFNESS MODIFICATION FACTOR (K<sub>br</sub>)=1.2, A<sub>sc</sub> IS TAKEN FROM THE BRACED FRAME ELEVATIONS, AND L<sub>wp</sub> IS THE WORKPOINT-TO-WORKPOINT LENGTH OF THE BRACE.
  - BRACE STRAINS TO BE CALCULATED AS P<sub>u</sub>/P<sub>u</sub>(δ), WHERE P<sub>u</sub> ≥ 1.0 AND 1.0-1.1.
  - MAXIMUM β<sub>u</sub> NOT TO EXCEED 1.52 AND MAXIMUM β NOT TO EXCEED 1.17, U.N.O. ON ELEVATIONS.



FLOOR DRAG BEAM CONNECTION

SCALE: NONE



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DATE: 12-17-2025



ARW ENGINEERS  
1000 W. 2000 S. SUITE 200  
SALT LAKE CITY, UT 84119

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REV DATE DESCRIPTION

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4684 W 12600 S  
RIVERTON, UT 84096  
BID SET

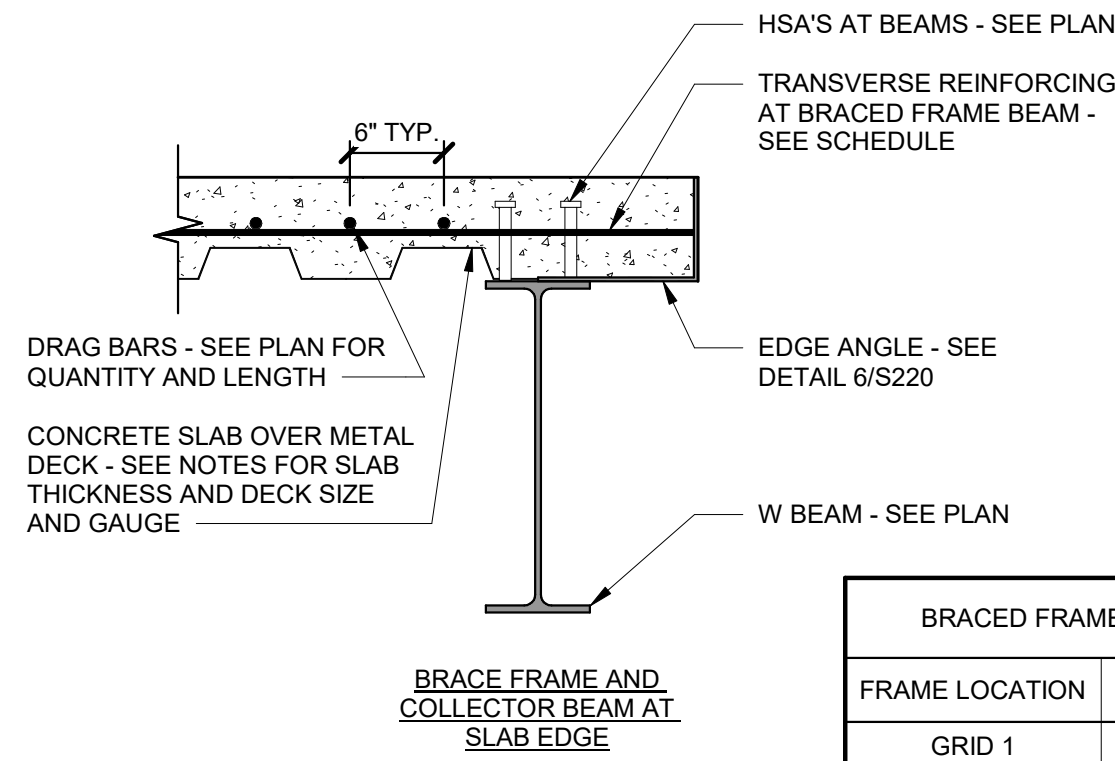
BRACE FRAME DETAILS

S202

12/15/2025 11:26:23 AM

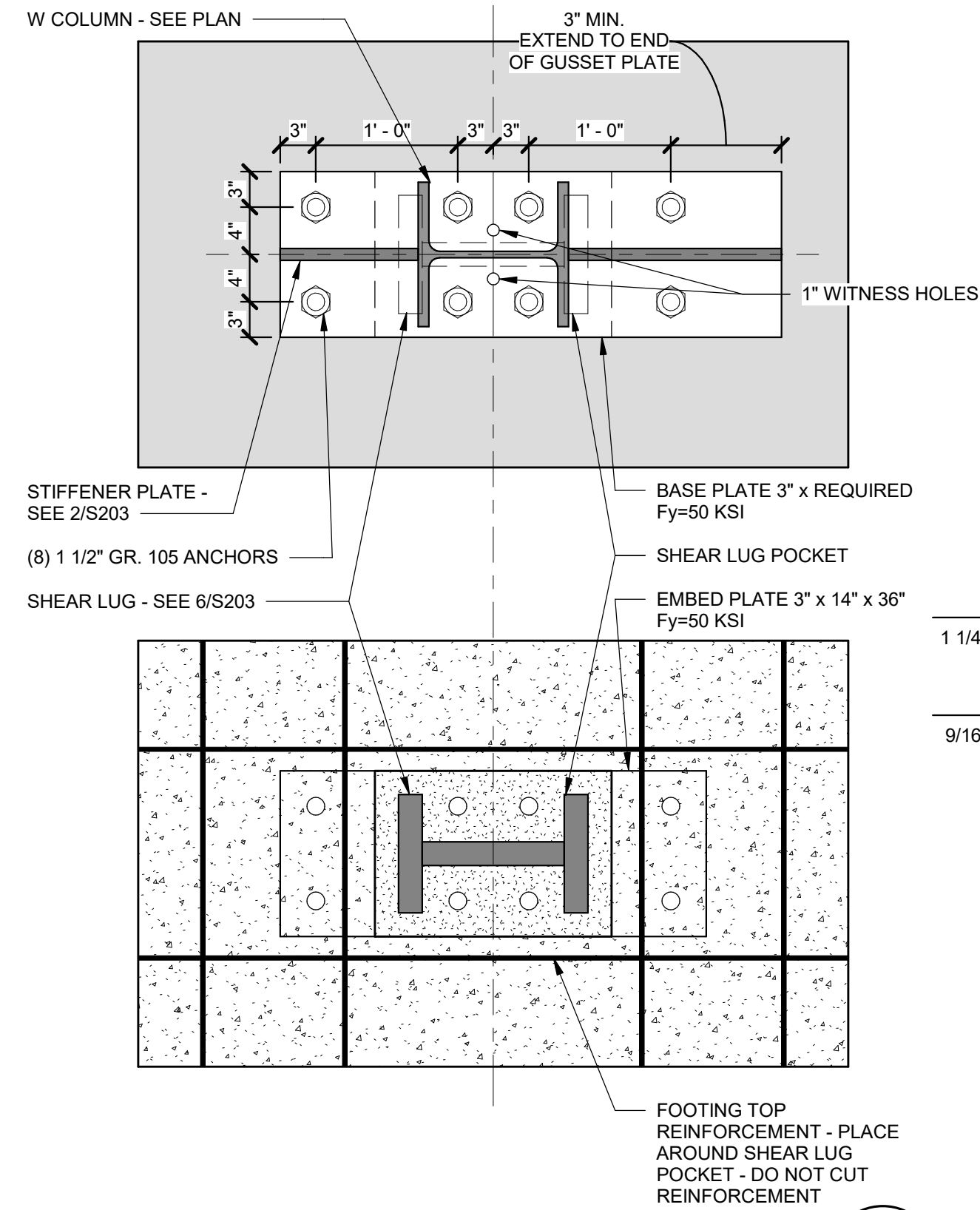


12/15/2025 11:26:23 AM Autodesk Docs/250955.00 - Life Time Fitness - Herriman UT - 250955 - Life Time Fitness - Herriman UT - 250955 - Life Time Fitness - Herriman UT - 250955



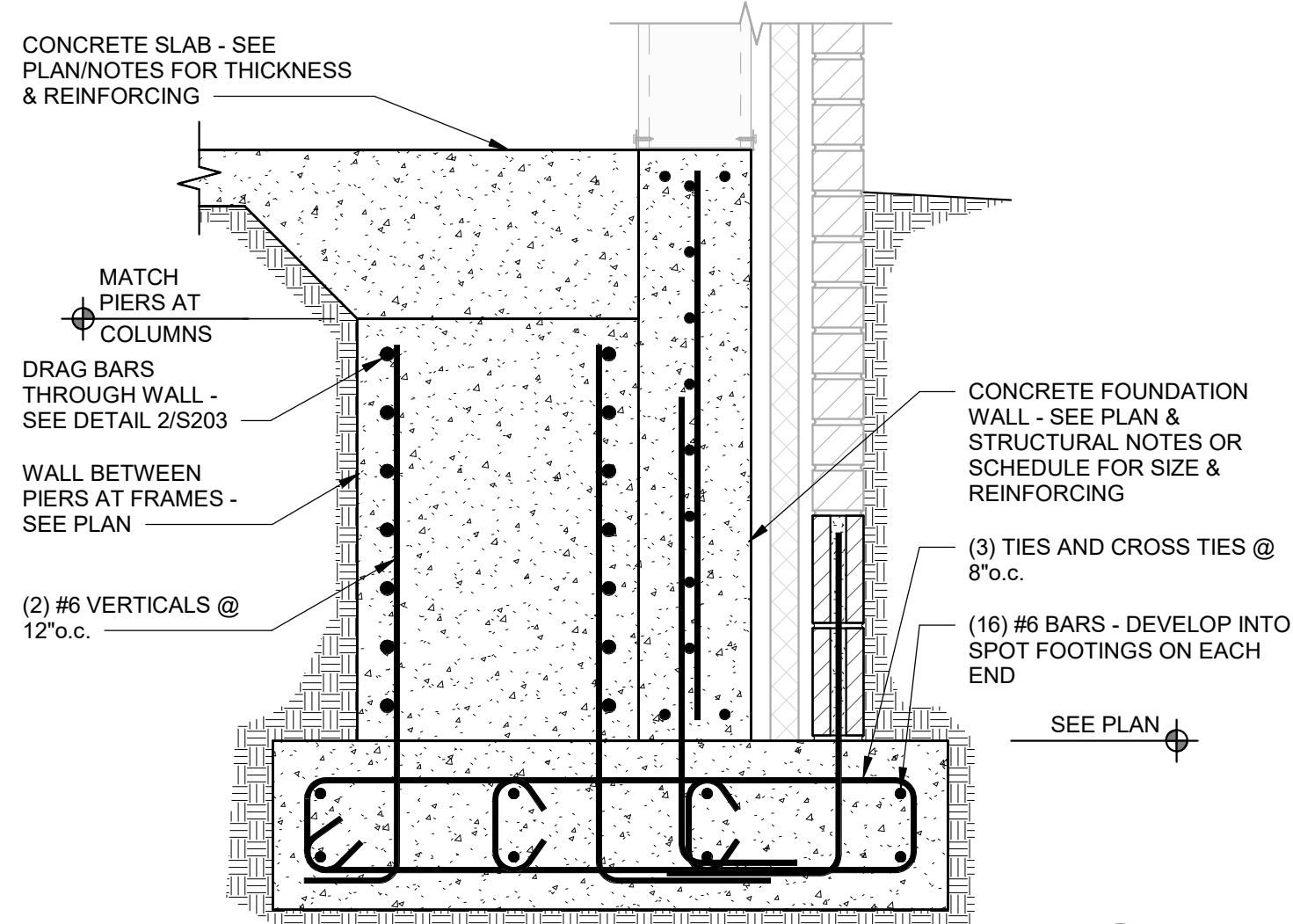
BRACED FRAME BEAM TRANSVERSE REINFORCING			
FRAME LOCATION	LEVEL	BAR SIZE	BAR SPACING
GRID 1	2nd	#4	18"
GRID 9	2nd	#4	18"
GRID B	2nd	#4	18"
GRID F	2nd	#4	18"

DETAIL  
SCALE: NONE



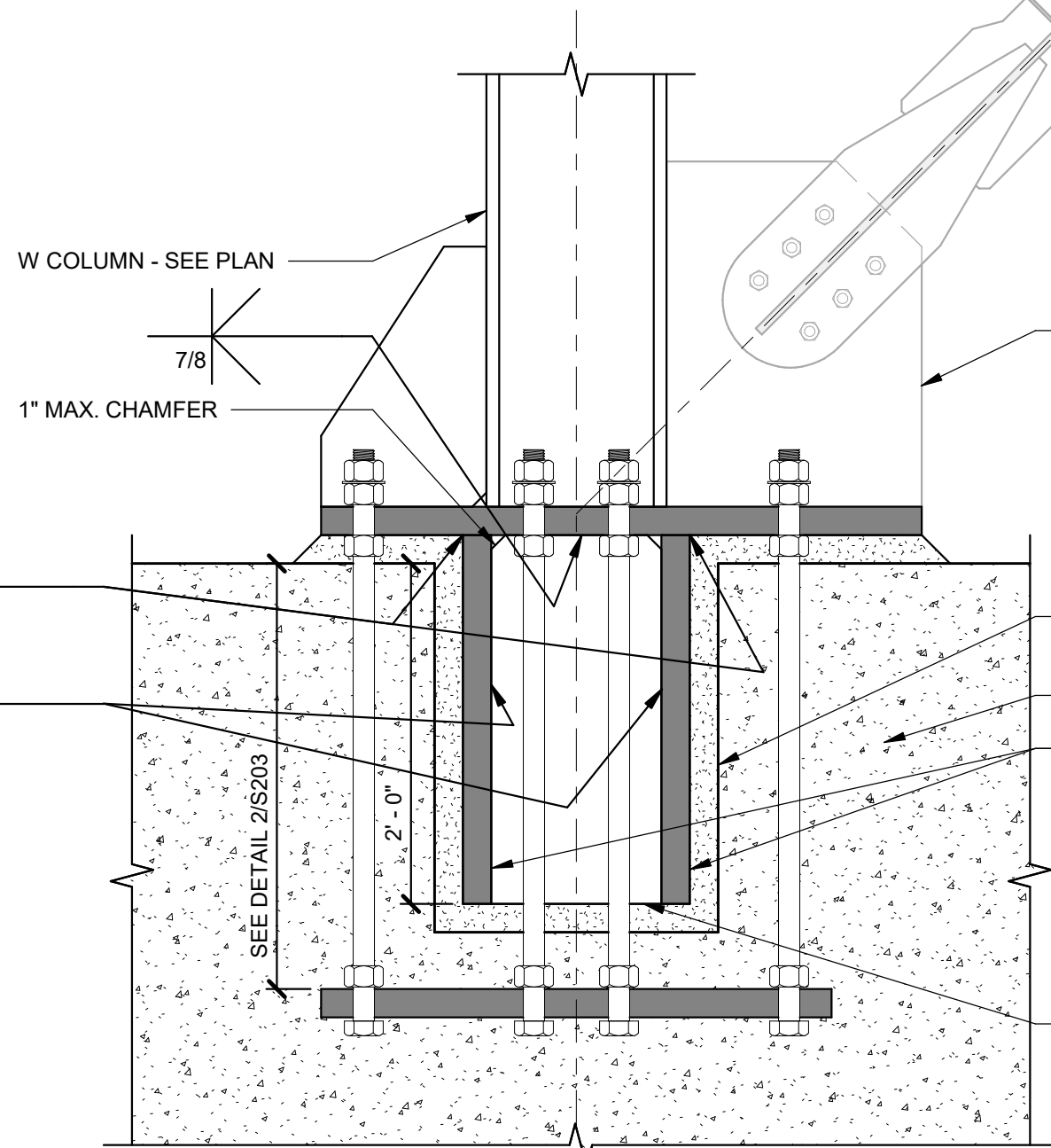
BRACE FRAME ANCHORAGE AT PIER  
SCALE: NONE

5  
S203



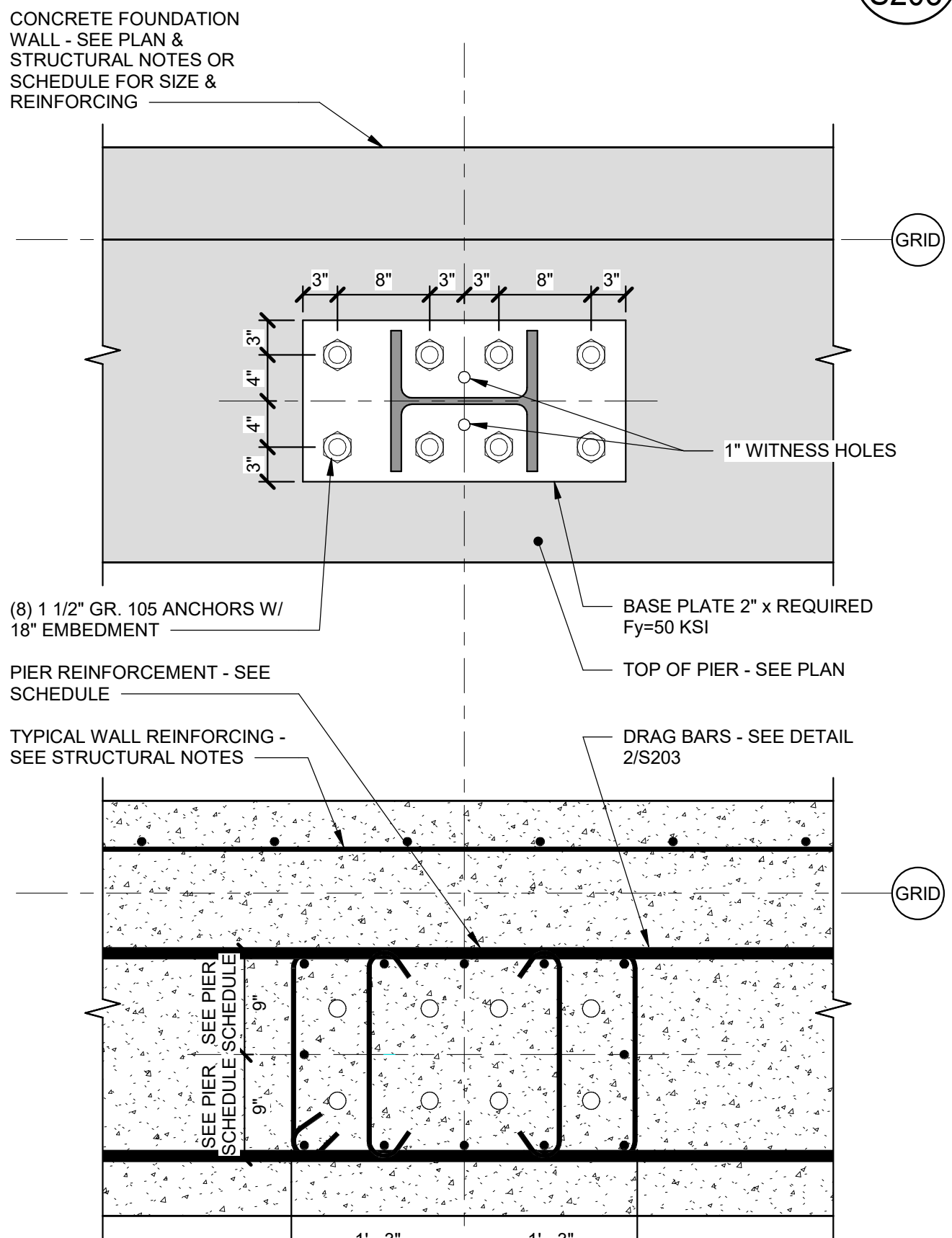
GRADE BEAM 2  
SCALE: NONE

8  
S203



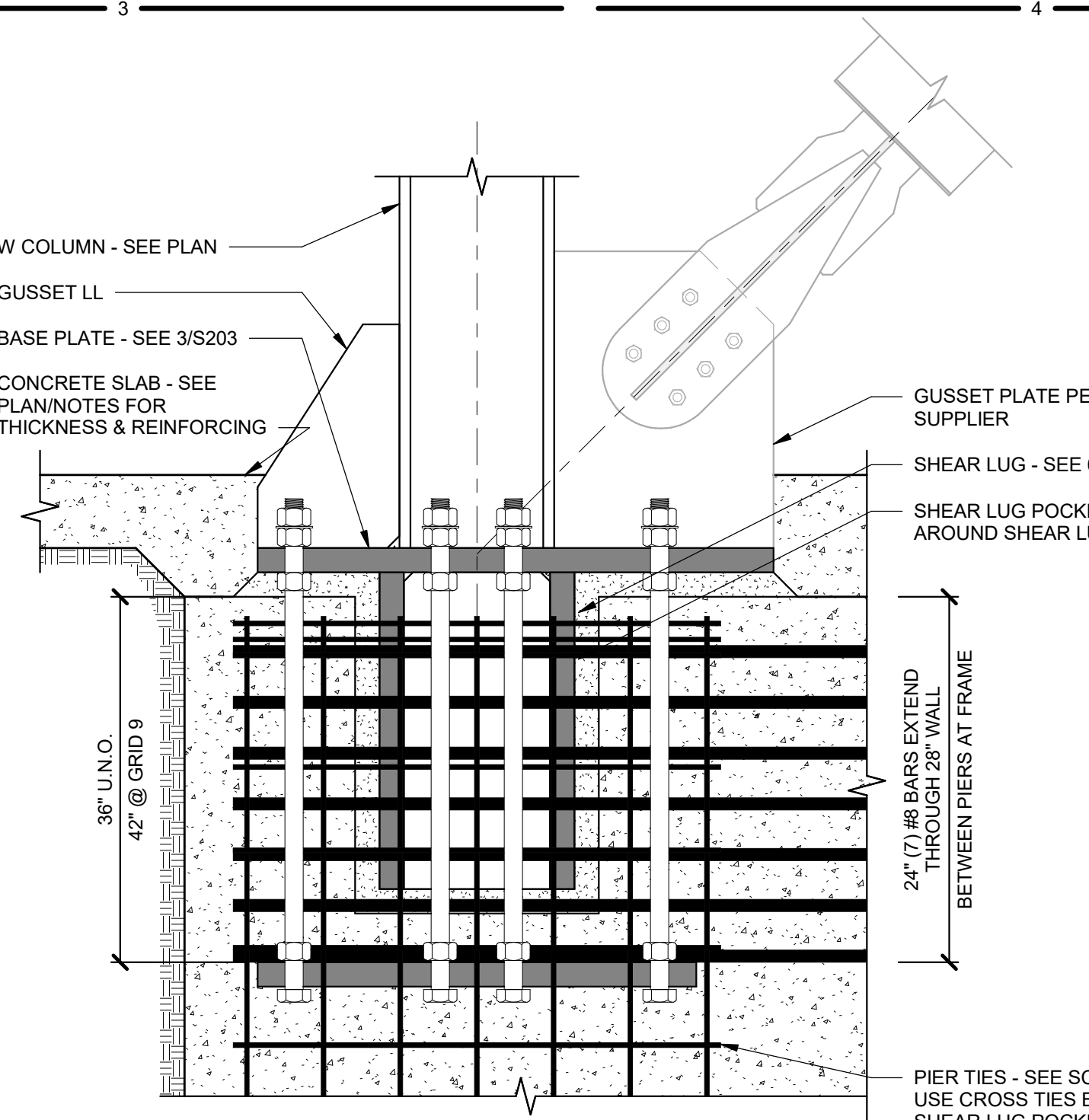
BRACE FRAME ANCHORAGE AT PIER  
SCALE: NONE

6  
S203



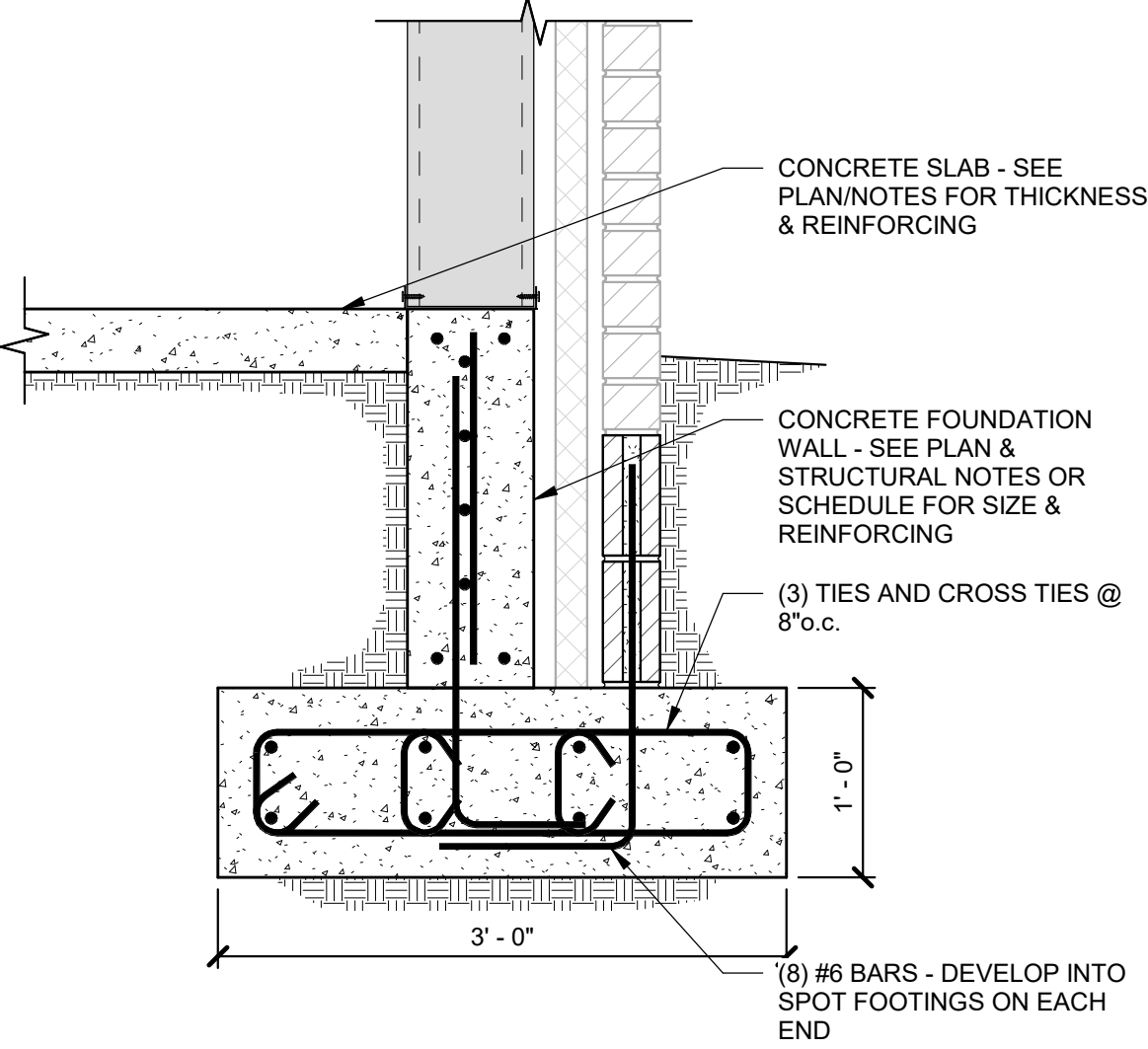
FRAME CENTER COLUMN ANCHORAGE AT PIER  
SCALE: NONE

9  
S203



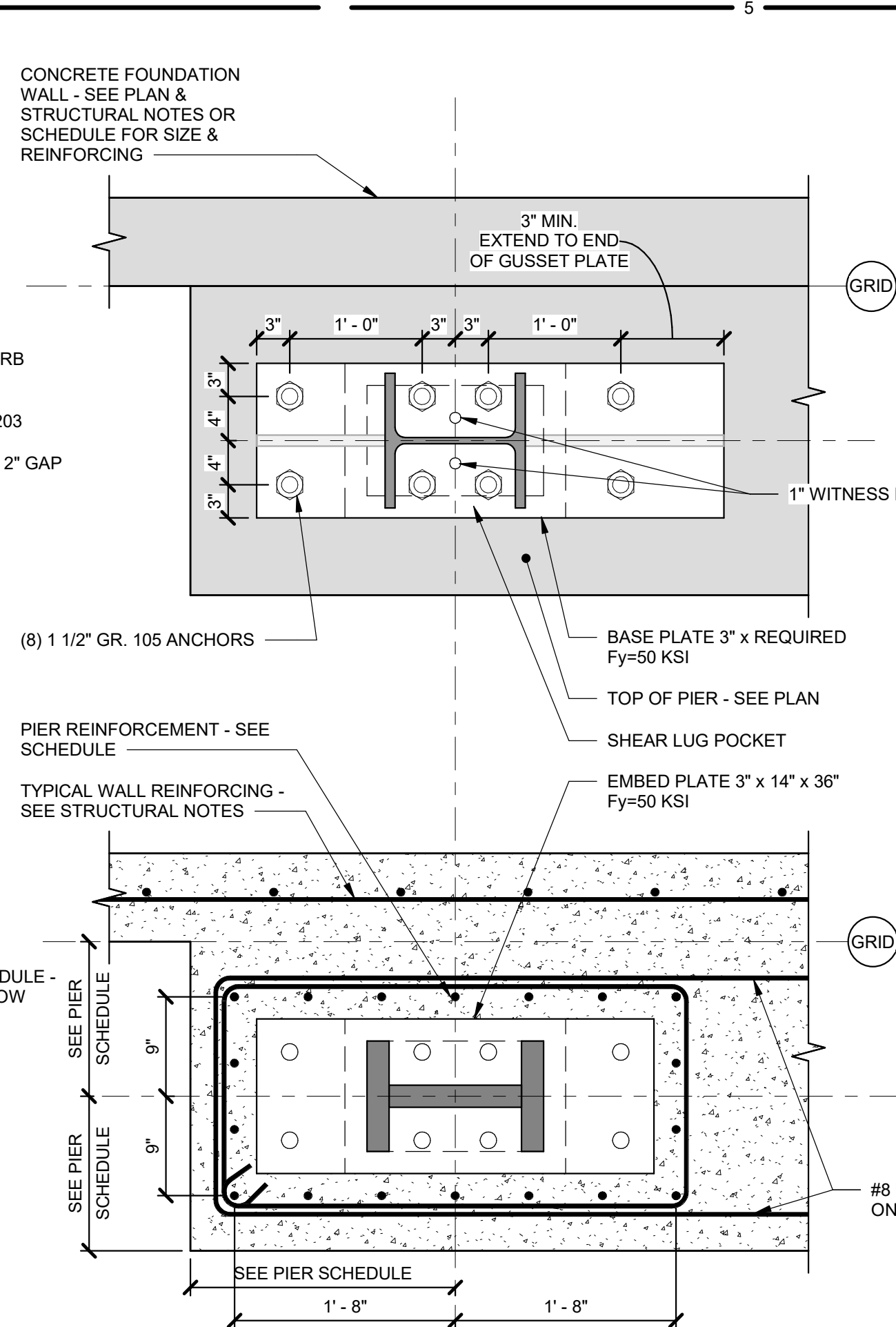
BRACE FRAME ANCHORAGE AT PIER  
SCALE: NONE

2  
S203



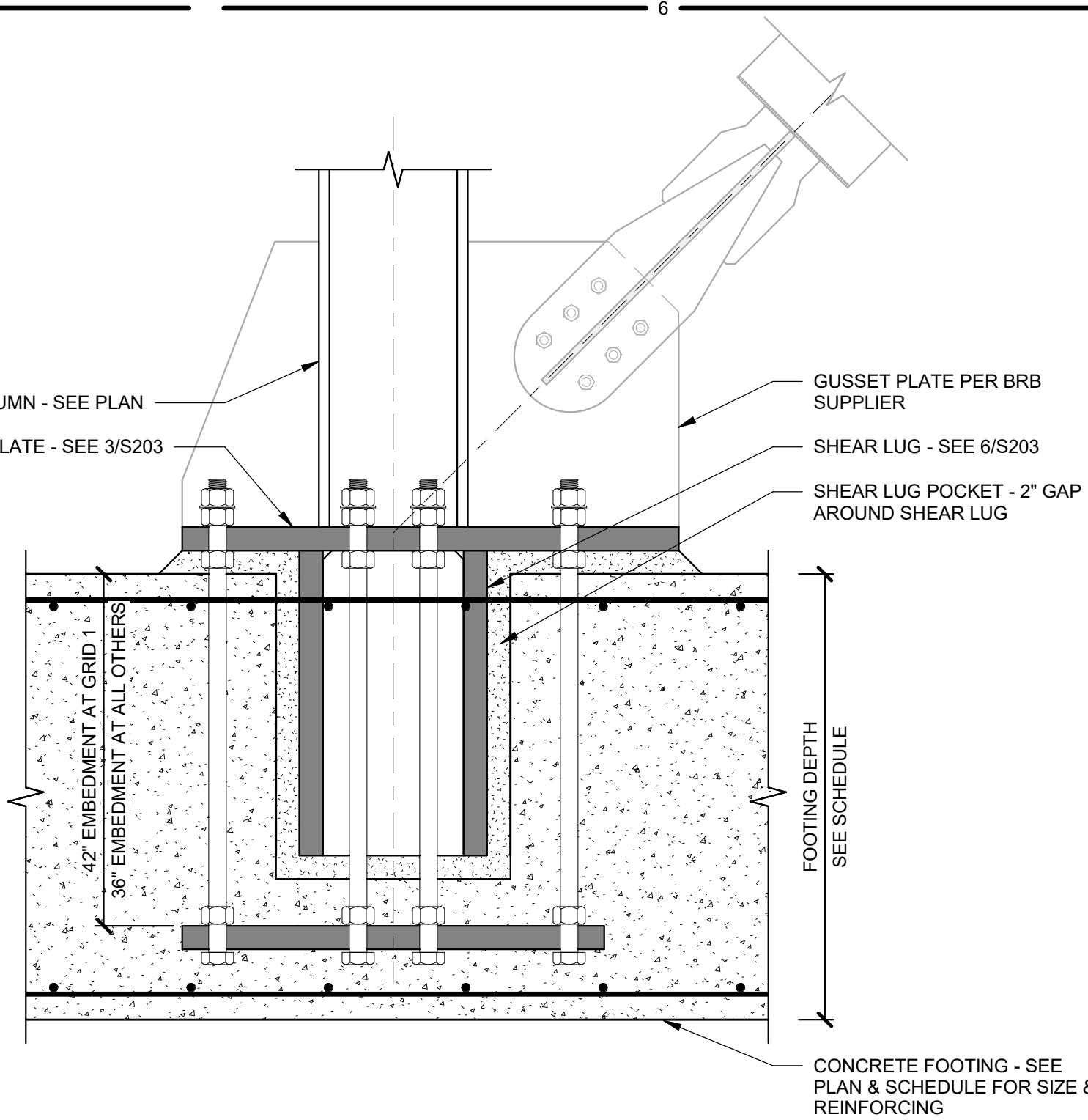
GRADE BEAM 1  
SCALE: NONE

7  
S203



BRACE FRAME ANCHORAGE AT PIER  
SCALE: NONE

3  
S203



BRACE FRAME ANCHORAGE AT FOOTING  
SCALE: NONE

4  
S203

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ST. GEORGE, UT  
LAIE, HI  
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SALT LAKE CITY, UT 84102  
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VOCBO.COM  
VOCBO NUMBER: Project Number  
DATE: 12-17-2025

Professional Engineer  
No. 10396006-2203  
Ark  
Higgs  
STATE OF UTAH  
04/10/15

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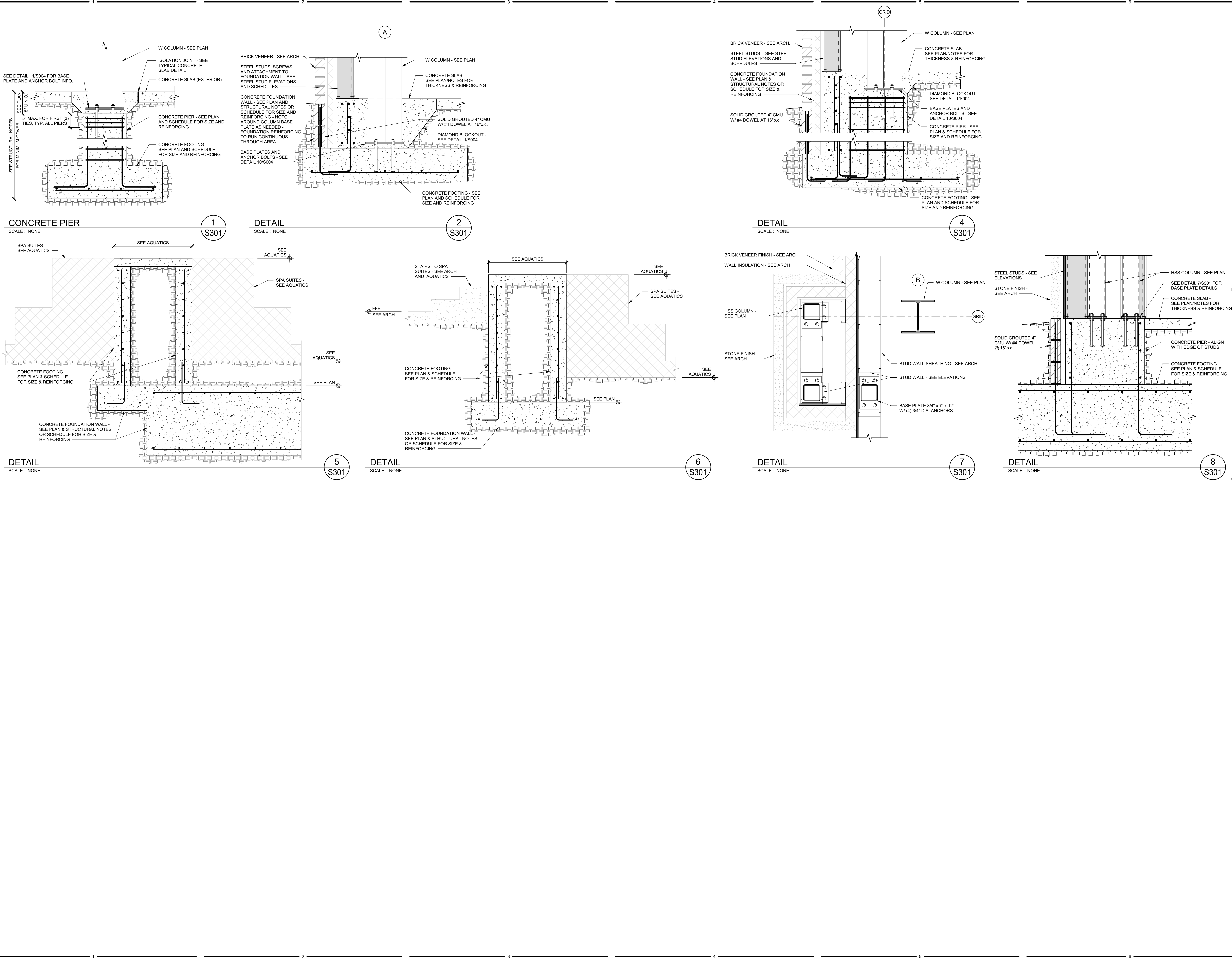
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BRACE FRAME DETAILS

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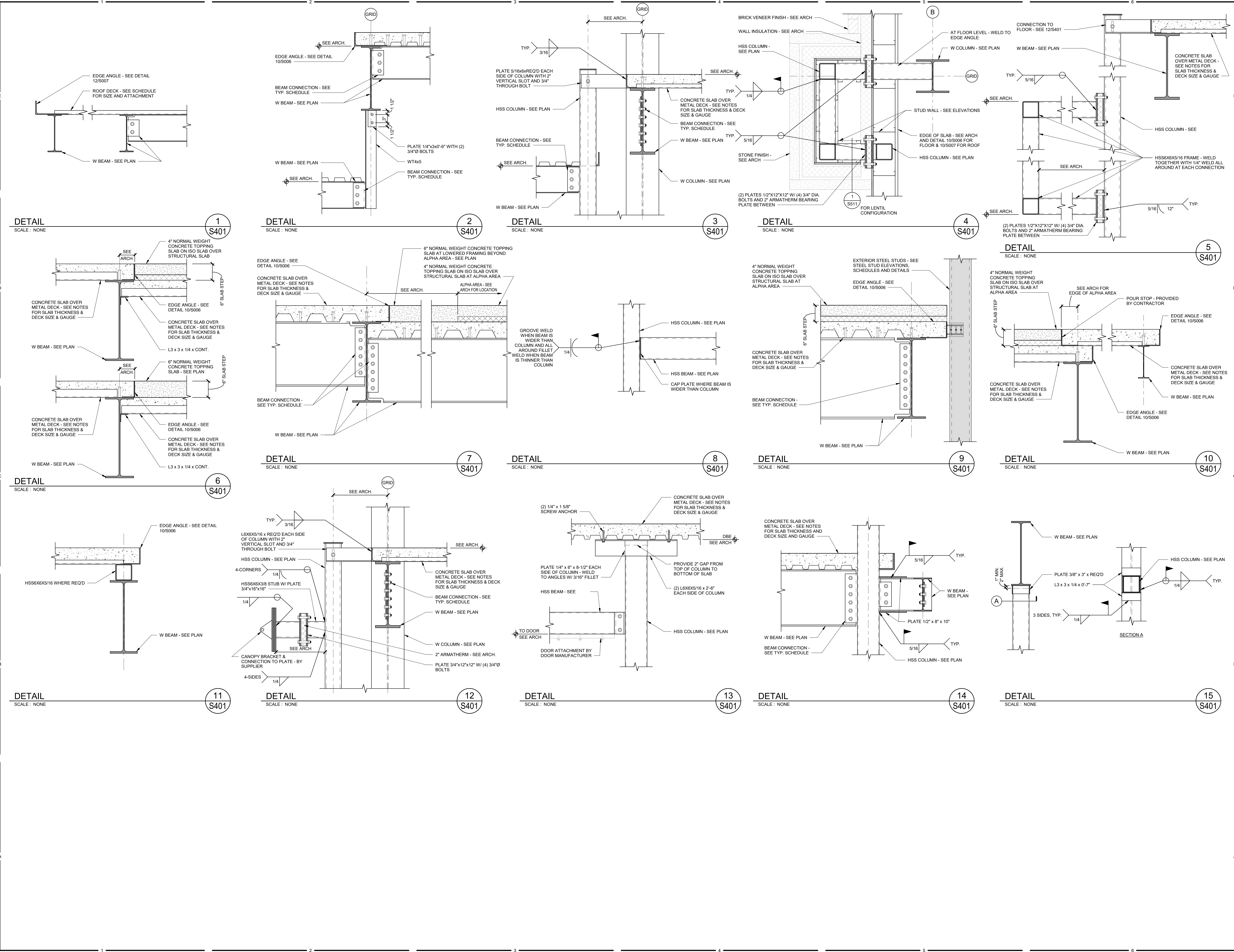
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EXTERIOR METAL STUD FRAMING NOTES :

A. GENERAL

1. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE EXTERIOR FRAMING DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND SPECIALTY STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AT NO ADDITIONAL COST TO THE OWNER.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT AND SPECIALTY STRUCTURAL ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
3. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
4. SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER, TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
5. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER, CONTRACTORS/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION. IT IS EXPECTED THAT THE COMPONENT SUBMITTAL WILL BE REVIEWED BY THE SER AND/OR AOR FOR CONFORMANCE WITH THE OVERALL PROJECT REQUIREMENTS.
6. SPECIALTY STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS, AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.
7. NOTICE OF COPYRIGHT: THESE EXTERIOR FRAMING DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS. ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE NON-STRUCTURAL FRAMING COMPONENTS AND ARE INSTRUMENTS OF SERVICE. FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT.
8. SPECIALTY STRUCTURAL OBSERVATION VISITS (WHEN PROVIDED) SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS REQUIRED TO OBSERVE THE CONSTRUCTION OF CRITICAL ELEMENTS RELATED TO THIS SCOPE OF WORK. OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE CLIENT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.

B. SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S502, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
2. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.

C. POST-INSTALLED CONCRETE ANCHORS

1. WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS.
2. WHERE STRUCTURAL DETAILS SPECIFY SPECIFIC BRANDS AND/OR TYPES OF ADHESIVES OR ANCHORS, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED, WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
3. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORT AND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN INTENT.
4. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION, IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES, IAPMO, OR APPROVED EQUAL) AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
5. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
6. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN DAMP OR WET HOLES.
7. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) RELATIVE TO SUBSTRATE TEMPERATURE.
8. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACICRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 308-19 17.8.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
9. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
  - a. HILTI HIT-RE 300V (ESR-3814), OR HILTI HIT-HY 200A (ESR-3187).
  - b. SIMPSON SET-3G (ESR-4057), OR AT-XP (ER-0263).
  - c. DEWALT PURE 110+ (ESR-3288), OR AC208+ (ESR-4027-COLD WEATHER).
10. UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
  - a. SIMPSON STRONG-BOLT 2 (ESR-3037).
  - b. HILTI KWIK BOLT-TZ2 (ESR-4268).
11. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
  - a. SIMPSON TITEN HD (ESR-2713).
  - b. DEWALT SCREWBOLT+ (ESR-3889).
  - c. HILTI KWIK HUS-EZ (ESR-3027).
12. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DISCRETION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
13. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/GROUTING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
14. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

D. SUPPLEMENTARY STRUCTURAL STEEL

1. WHERE SUPPLEMENTARY STRUCTURAL STEEL HAS BEEN DETAILED IN THESE DOCUMENTS IT SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
  - a. ANSIAISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"; WITH "COMMENTARY" AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
  - b. AISI 303-16 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE FOLLOWING SECTIONS: 4.4, 4.4.1, AND 4.4.2.
  - c. AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
  - d. AISI "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
  - e. AWS D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY CONFLICT WITH AISI).
1. ANSIAISC 341-16 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".
2. SUPPLEMENTARY STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
  - a. PLATES - ASTM A-36 (UNO)
  - b. HOLLOW STRUCTURAL SECTIONS (HSS) -- ASTM A-500, GRADE C FOR SQUARE, RECTANGULAR, AND ROUND SHAPES (FY = 50 KSI FOR SQUARE AND RECTANGULAR SHAPES AND 46 KSI FOR ROUND SHAPES).
  - c. PIPE COLUMNS - ASTM A-53, GRADE B TYPE E OR S
3. CONNECTIONS SHALL COMPLY WITH THE EXTERIOR FRAMING DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE SPECIALTY STRUCTURAL ENGINEER.
4. ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1702 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.5 OF THE IBC.
5. WELDING
  - a. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS IN ACCORDANCE WITH ANSIAAWS D1.1 (LATEST EDITION).
  - b. USE E-60XX ELECTRODES UNLESS NOTED OTHERWISE.

E. COLD-FORMED STEEL

1. LIGHT GAUGE STEEL FRAMING
  - a. WHERE STEEL FRAMING SIZE DESIGNATORS ARE USED IN THE DRAWINGS, THEY SHALL FOLLOW THE CONVENTION ESTABLISHED BY THE STEEL STUD MANUFACTURERS' ASSOCIATION (SSMA). FRAMING MEMBERS PROVIDED SHALL COMPLY WITH THE DESIGNATIONS ACCORDING TO THIS CONVENTION.
  - b. ALL EXTERIOR FRAMING STUDS ALONG WITH ALL TOP/BOTTOM TRACKS, BRIDGING, AND END-TRACKS SHALL BE OF THE DESIGNATION SHOWN ON THE PLANS. ALL OF THE ABOVE ELEMENTS SHALL BE FORMED FROM STEEL MEETING REQUIREMENTS OF ASTM A1011/A1011M-04. ALL COMPONENTS SHALL BE 660 GALVANIZED. ALL COMPONENTS SHALL HAVE THE FOLLOWING YIELD STRESSES:

COMPONENT	BASE METAL THICKNESS	YIELD STRESS
STUDS & TRACKS	33 & 43 MILL	33,000 PSI
	54, 58 & 57 MILL	50,000 PSI
END CLOSURES & BRIDGING	33, 43, 54 & 68 MILL	33,000 PSI
  - c. FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS FOR THE USE OF THESE PRODUCTS.
  - d. UNLESS NOTED OTHERWISE, ALL WELDED CONNECTIONS SHALL BE IN ACCORDANCE WITH AWS D1.3 AND THE EXTERIOR FRAMING DETAILS. ALL WELDS SHALL BE COMPLETED USING E60XX ELECTRODES. ALL WELDS SHALL BE EQUIVALENT TO A FILLET WELD THAT IS EQUAL IN SIZE TO THE THICKNESS OF THE THINNEST PART BEING WELDED. ALL WELDS SHALL BE TOUCHED-UP WITH ZINC-RICH PAINT (ASTM A-780).
2. ERECTION TOLERANCES
  - a. CONCRETE FOUNDATION SHALL BE LEVEL AND FREE FROM DEFECTS. IF THE FOUNDATION IS NOT LEVEL, PROVISIONS SHALL BE MADE TO PROVIDE A UNIFORM BEARING SURFACE WITH A MAXIMUM 1/4" GAP BETWEEN THE BOTTOM TRACK AND FOUNDATION.
  - b. PER AISI S200 ENDS OF STRUCTURAL WALL STUDS SHALL HAVE SQUARE CUT ENDS AND SHALL BE "SEATED TIGHT" AGAINST TRACKS. "SEATED TIGHT" SHALL MEAN THAT A MAXIMUM GAP OF 1/8" WILL BE ACCEPTABLE BETWEEN THE END OF WALL FRAMING AND THE TRACK.
  - c. ALL COLD FORMED FRAMING MEMBER SHALL BE INSTALLED PLUMB, SQUARE AND TRUE PER THE PROJECT SPECIFICATIONS.
3. CONNECTIONS AND FASTENERS
  - a. ALL SCREWS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES, SPACING AND EDGE DISTANCE:

SCREW SIZE	SHANK DIA.	MIN. SPACING	MIN. EDGE DIST.
NO. 6	0.138"	7/16"	1/4"
NO. 8	0.164"	1/2"	1/4"
NO. 10	0.190"	5/8"	5/16"
NO. 12	0.216"	3/4"	3/8"
1/4"	0.250"	3/4"	3/8"
  1. SELF DRILLING SCREWS WITH WINGS ARE NOT PERMITTED TO BE USED ON ANY CONNECTIONS INTO COLD FORMED STEEL.
  2. UNLESS NOTED OTHERWISE, ALL FRAMING ANCHORS, CLIPS, HOLD DOWNS, STRAPS, ETC. SHALL BE PROVIDED BY THE STEEL NETWORK OR APPROVED EQUAL.
  3. ALL POWDER ACTUATED FASTENERS SHALL BE HILTI XU OR APPROVED EQUAL.
- b. UNLESS OTHERWISE NOTED, ALL METAL STUD WALLS SHALL HAVE HORIZONTAL BRIDGING PLACED AT 4'-0" O.C. SEE TYPICAL DETAIL FOR BRIDGING INFORMATION.
- c. UNLESS NOTED OTHERWISE, ALL WALL STUDS SHALL BE CONTINUOUS BETWEEN TOP AND BOTTOM TRACKS WITH NO SPLICES.
- d. UNLESS NOTED OTHERWISE, ALL WALLS SHALL BE CONSIST OF 800S162-54 STUDS SPACED AT 16" O.C. W/ #6 SCREWS ATTACHING EACH FLANGE OF THE STUD TO THE BOTTOM TRACK.
- e. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALL BOTTOM TRACKS SHALL BE ANCHORED TO THE CONCRETE FOUNDATION WALL WITH POST-INSTALLED CONCRETE ANCHORS AT 16" O.C. SEE THE POST-INSTALLED CONCRETE ANCHOR SECTION IN THESE NOTES FOR MORE INFORMATION.
- f. ALTERNATE ANCHORS MANUFACTURERS MAY BE USED AS APPROVED BY THE SPECIALTY STRUCTURAL ENGINEER. THERE SHALL BE A MINIMUM OF (2) ANCHORS PER TRACK WITH (1) ANCHOR LOCATED NOT MORE THAN 12" AND NOT LESS THAN 4" FROM THE END OF EACH PIECE.
- g. UNLESS NOTED OTHERWISE, ALL TOP TRACKS SHALL BE 800T25-64 TRACKS. WHERE DEFLECTION TRACKS ARE REQUIRED PER THE METAL STUD DRAWINGS, USE 800T225-64. SEE APPLICABLE DETAILS FOR CONSTRUCTION INFORMATION.
- h. ALL TOP TRACKS OF STUD WALLS SHALL BE CONTINUOUS, WHERE LONG TRACKS ARE NOT AVAILABLE, TOP TRACKS SHALL BE SPLICED PER DETAIL 7/SS20.
- i. UNLESS NOTED OTHERWISE, ALL STEEL STUD BOX HEADER COMPONENTS AND SILL COMPONENTS (I.E. STUDS AND TRACKS), SHALL BE CONTINUOUS WITH NO SPLICES BETWEEN BEARING SUPPORTS.
- j. PREFABRICATED SYSTEMS: SUBMIT COMPLETE SHOP DRAWINGS AND CALCULATIONS OF ALL ELEMENTS FOR REVIEW. SUBMITTALS SHALL BEAR THE STAMP OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT OCCURS.

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STEEL STUD NOTES

S501

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WALL SCHEDULE								
MARK	STUD	SPACING	TOP TRACK	BOTTOM TRACK	COMMENTS			
SSW-1	800S162-54	16"	800T125-54	800T125-54	BRIDGING @ 4'-0"o.c. WHERE SHEATHING IS NOT ATTACHED ON BOTH FLANGES OF STUD			
SSW-2	600S162-54	16"	600T150-54	600T125-54				
SSW-3								
SSW-4								
SSW-5								
SSW-6								
SSW-7								
SSW-8								
NOTE : 1. USE SSW-1 UNLESS NOTED OTHERWISE. 2. ATTACH BOTTOM TRACK TO SLAB PER 2/S520. 3. ATTACH HEAD OF WALL PER DETAIL 6/S520.								
JAMB STUD SCHEDULE								
MARK	MAX. OPENING	# OF JAMB STUDS	CONFIGURATION	CONCRETE CONNECTION		FLOOR / ROOF CONNECTION		COMMENTS
				CONNECTOR	ANCHOR	CONNECTOR	ANCHORAGE	
SSJ-1	4'-0"	1	--	--	--	--	--	--
SSJ-2	8'-0"	2	1	--	--	--	--	--
SSJ-3	12'-0"	3	2	--	--	--	--	--
SSJ-4	--	--	--	--	--	--	--	--
HEADER SCHEDULE								
MARK	MAX. OPENING	VERT. SECTIONS	HORIZ. SECTIONS	CONFIGURATION	HEADER CONNECTION	COMMENTS		
SSH-1	4'-0"	600S162-54	1	5/S520	---			
SSH-2	8'-0"	600S162-54	2	5/S520	---			
SSH-3	12'-0"	600S162-54	2	5/S520	---			
SSH-4	---	---	---	---	---			
SSH-5								
SSH-6								
SSH-7								
SILL SCHEDULE								
MARK	MAX. OPENING	SILL COMPONENTS	CONFIGURATION	SILL CONNECTION ANGLE	COMMENTS			
SSS-1	4'-0"	800T125-54	1					
SSS-2	8'-0"	800T125-54	1					
SSS-3	12'-0"	800T125-68, 800S162-43	2					

BRIDGING OPTIONS

WHERE BRACING TERMINATES AT BUILT-UP JAMB OR POST, EXTEND CHANNEL INTO PUNCH-OUT. USE 2" x 2" x 16 GA. CLIP ANGLE 1-1/4" LESS THAN STUD WIDTH. ATTACH USING (4) #8 SCREWS.

1-1/2" x 16 GAUGE COLD ROLLED CHANNEL. TO BE SPACED AS REQ'D PER EXTERIOR FRAMING NOTES

2" x 2" x 16 GAUGE CLIP ANGLE 1/4" LESS THAN STUD WIDTH. ATTACH USING (4) #8 SCREWS. CLIP ANGLE TO BE PLACED AT EACH STUD.

OPTION 1

OPTION 2

TSN BRIDGECLIP BC600 @ EA. STUD - SEE SCHED.

ADDITIONAL SCREWS FOR LOAD BEARING APPLICATIONS

TSN BRIDGEBAR OR COLD ROLLED CHANNEL

CONFIG. 1

CONFIG. 2

CONFIG. 3

NOTE : SEE DETAIL 14/S520 FOR JAMB STITCHING OPTIONS

CONFIG. 1

CONFIG. 2

CONFIG. 3

CONFIG. 4

CONFIG. 5

HORIZONTAL SECTION TYP.

VERTICAL SECTION TYP.

DEEP FLANGE STUD

#8 SCREW @ 24"o.c. TYP.

CONFIG. 1

CONFIG. 2

SILL TRACK - SEE SCHED.

SILL - SEE SCHED.

#8 SCREWS @ 24"o.c.

SPECIAL INSPECTION SCHEDULE 1, 2				
ESTABLISHED PER 2021 IBC SECTION 110 AND CHAPTER 17				
ITEM	CONTINUOUS <sup>1</sup>	PERIODIC <sup>2</sup>	REFERENCE	COMMENTS
COLD FORMED FRAMING (IBC 1705.12.2 & 1705.13.3)			CF 1	SPECIAL INSPECTION IS NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS WHERE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE SPECIFIED FASTENER SPACING AT THE PANEL OR SHEET EDGES.
LIGHT GAUGE METAL FRAMING WELDING		●		
GENERAL SPECIAL INSPECTION NOTES :				
1. THE ITEMS MARKED WITH A ● IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.				
2. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.				
3. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202)				

VOCBO

SALT LAKE CITY, UT - HQ  
ST. GEORGE, UT  
LAIE, HI  
  
524 SOUTH 600 EAST  
SALT LAKE CITY, UT 84102  
801.575.8800  
VOCBO.COM  
  
VOCBO NUMBER: Project Number  
DATE: 12-17-2025

Professional Engineer  
No. 10396006-2203  
Ark  
Higgs  
STATE OF UTAH  
04/10/15

ARW ENGINEERS

1000 N. 2000 WEST  
SUITE 200  
SALT LAKE CITY, UT 84119  
801.466.1000  
arwengineers.com

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HERRIMAN, UT

4684 W 12600 S  
RIVERTON, UT 84096  
BID SET

STEEL STUD SCHEDULES

S502

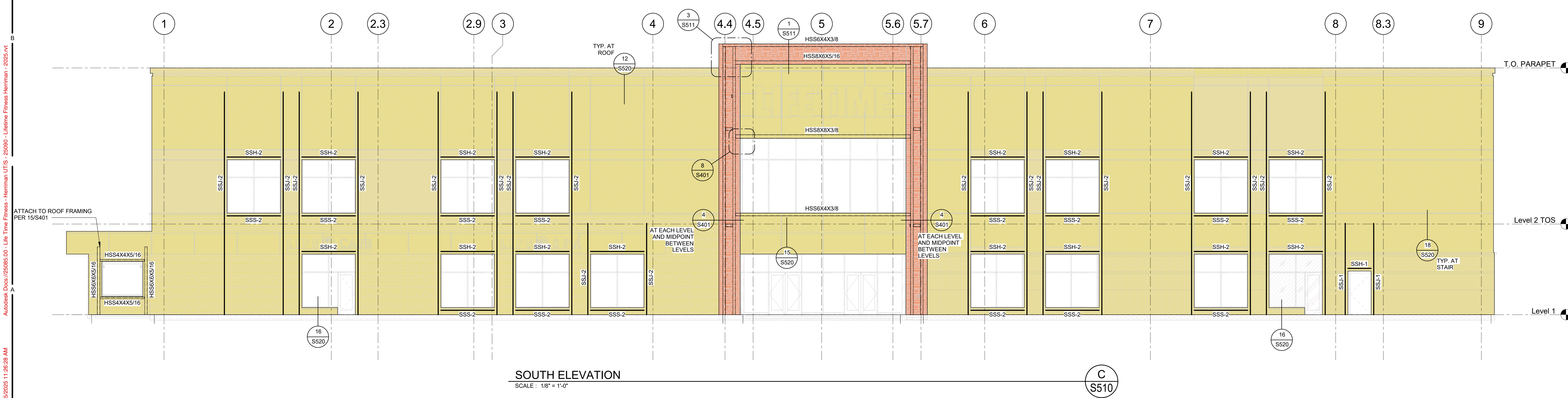




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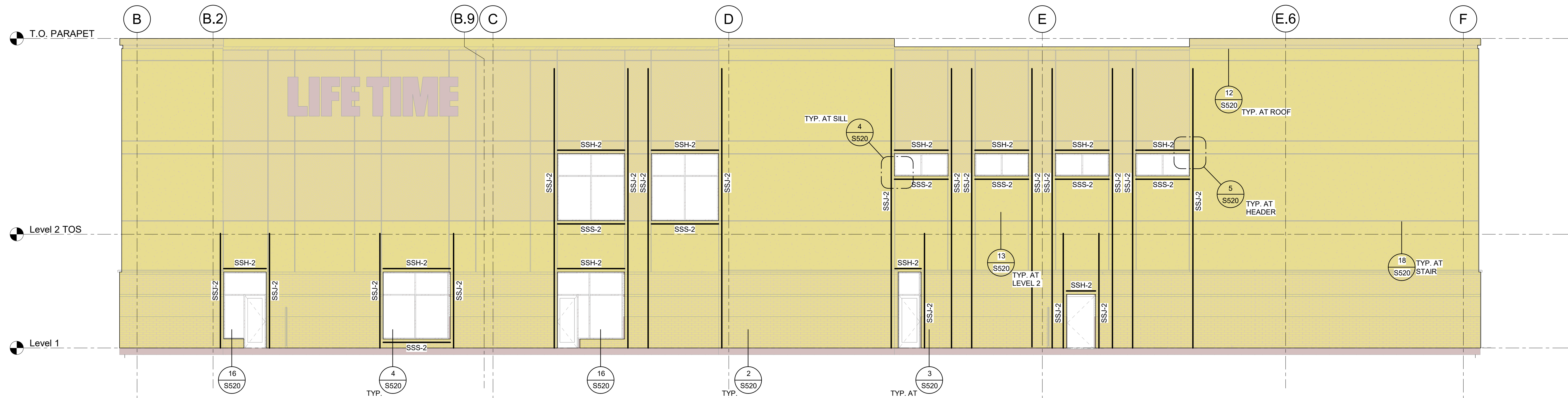
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REV	DATE	DESCRIPTION
1	20250926	Addendum 001

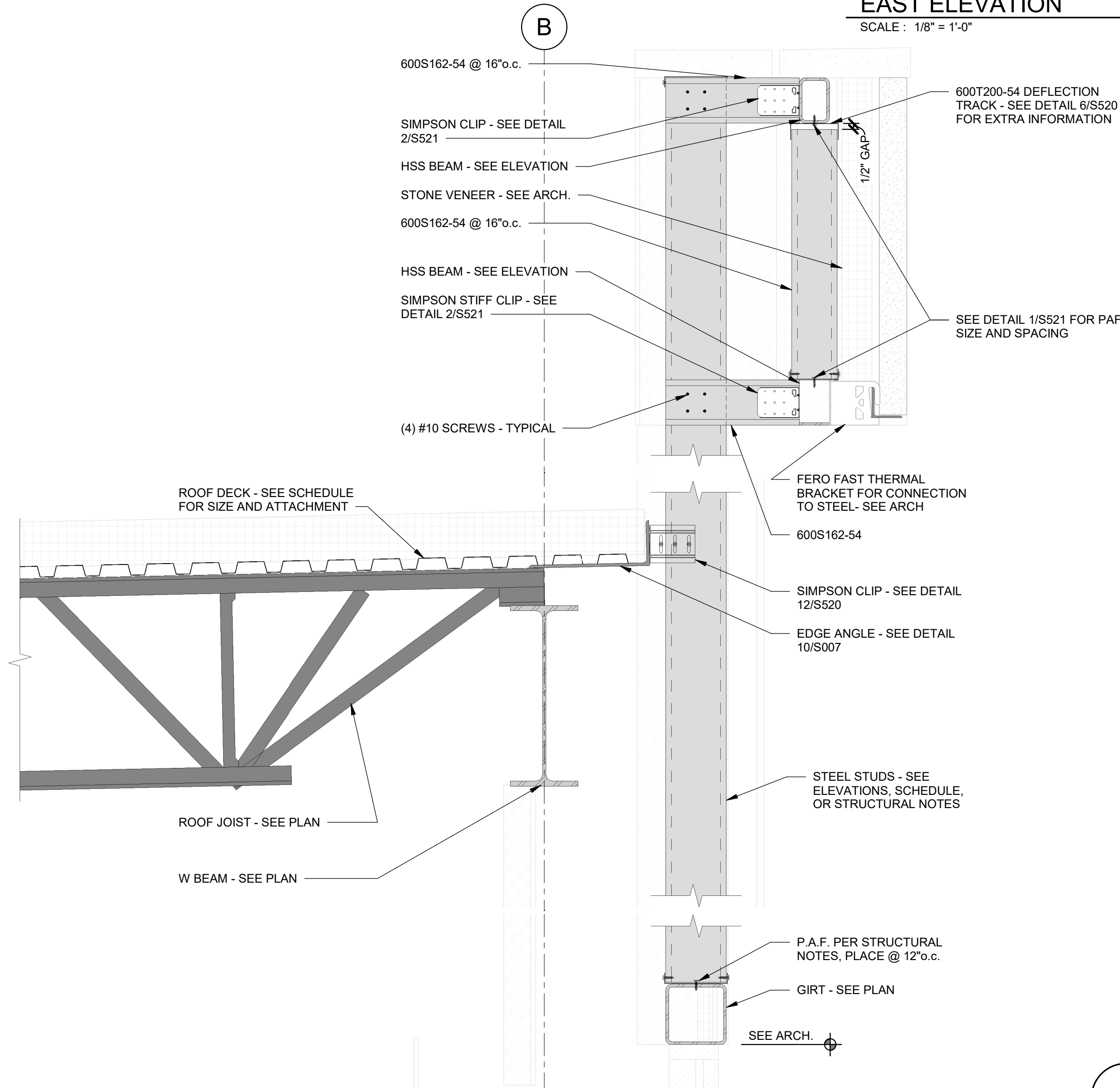




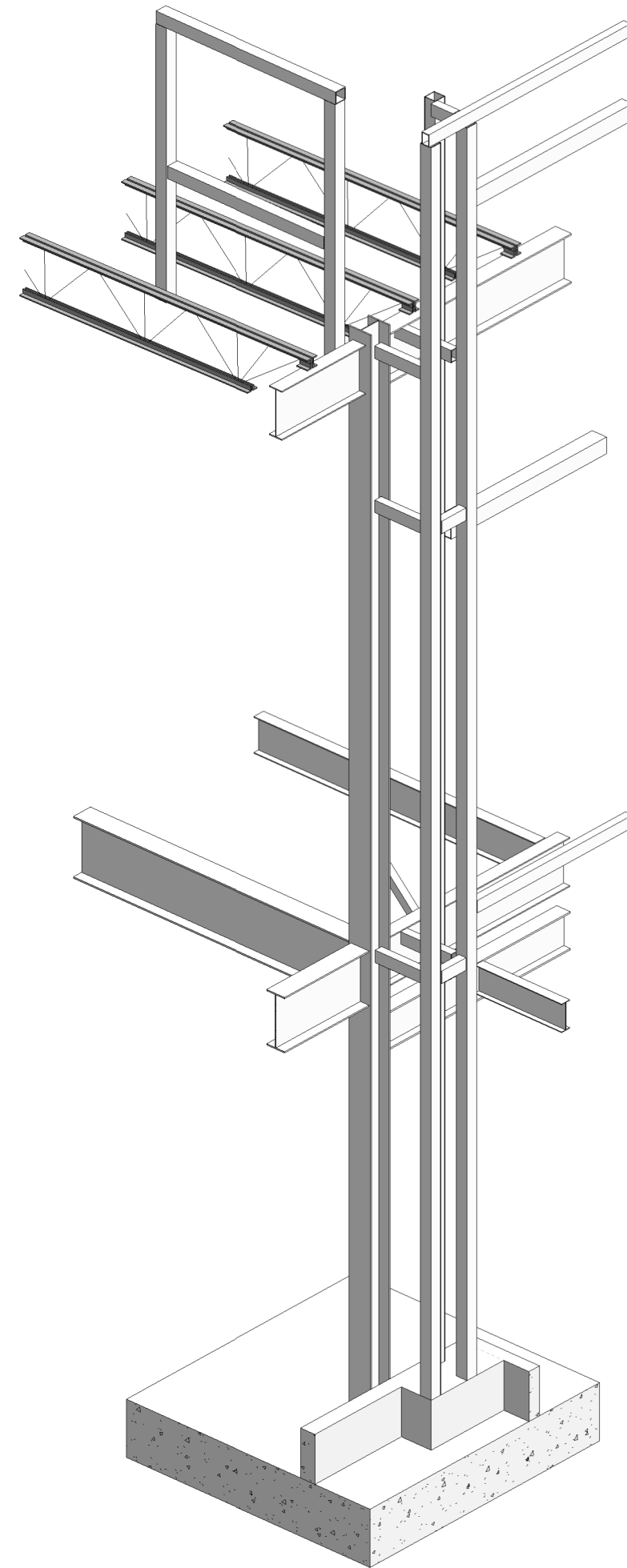
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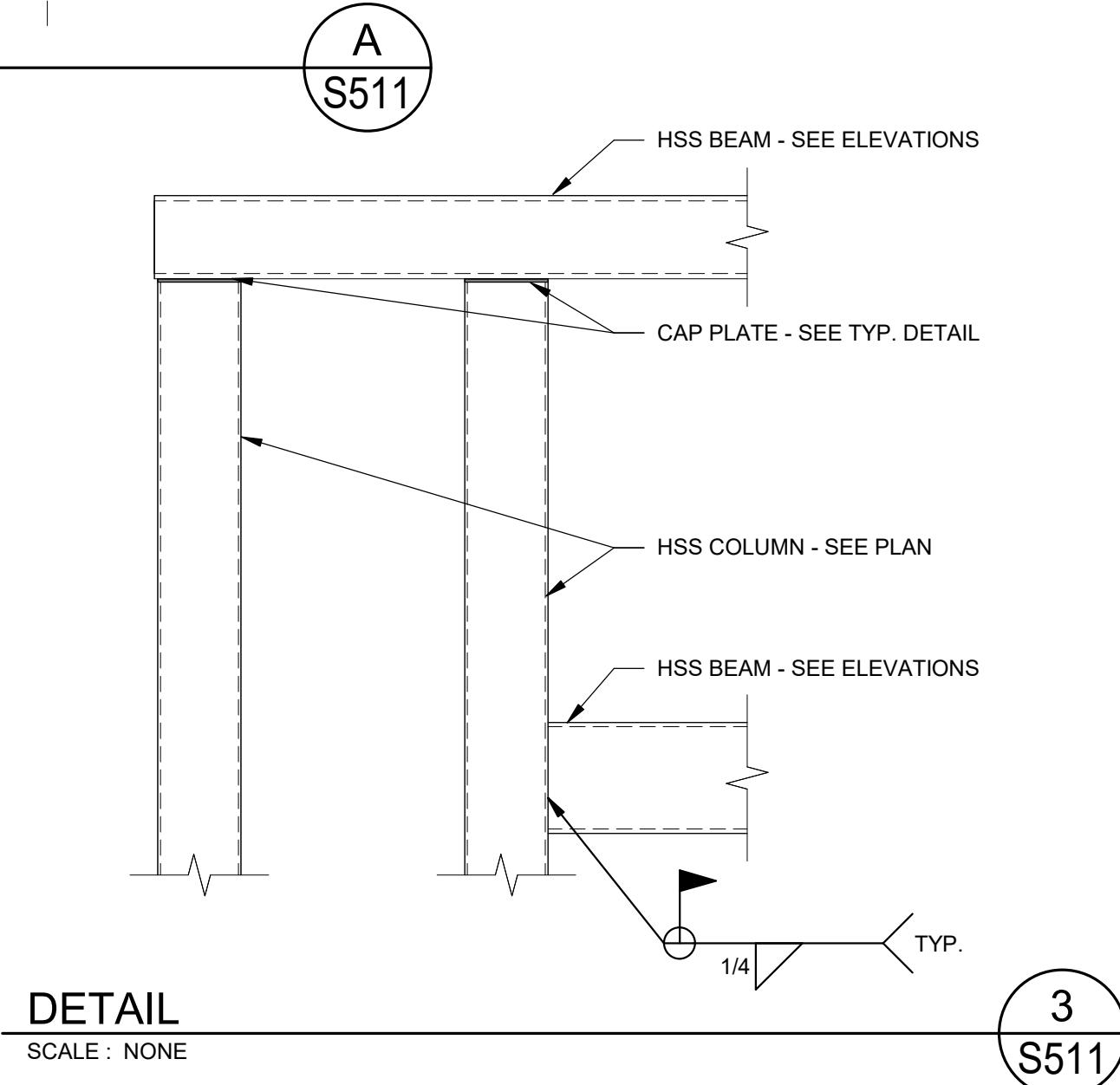
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SCALE : 1/8" = 1'-0"



DETAIL  
SCALE : NONE



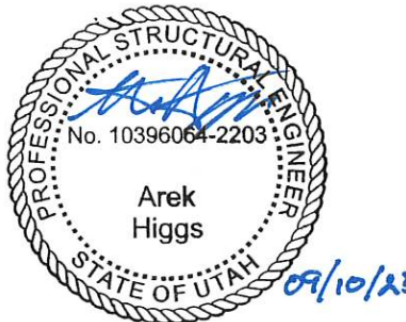
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SCALE : NONE



DETAIL  
SCALE : NONE

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REV	DATE	DESCRIPTION
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HERRIMAN, UT

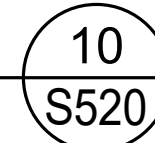
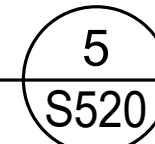
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EXTERIOR ELEVATIONS

S511

12/15/2025 11:26:30 AM







12/15/2025 11:26:31 AM

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## TYPICAL DETAILS

**S521**