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LEGEND OF SYMBOLS AND ABBREVIATIONS	
AB	ANCHOR BOLT
ABV	ABOVE
ARCH	ARCHITECT
BNW	BOUNDARY NAILING
BN	BOUNDARY SCREW
BRB	BUCKLING RESTRAINED BRACE
BRBF	BUCKLING RESTRAINED BRACE FRAME
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CP	CONCRETE PIER
DC	DEMAND CRITICAL
DIA / Ø	DIAMETER
DBA	DEFORMED BAR ANCHOR
DBE	DECK BEARING ELEVATION
ELEV	ELEVATION
EN	EDGECUT NOTCH
EOD	END OF DECK
FDN	FOUNDATION
FTG	FOOTING
FFE	FLAT 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	POWER ACTUATED FASTENER
PL	PLATE
REINF	REINFORCING
REQ'D	REQUIRED
SIM	SIMILAR
SSH	STEEL STUD HEADER
SSJ	STEEL STUD JAMB
SSS	STEEL STUD SILL
SSW	STEEL STUD WALL
TOB	TOP OF BEAM ELEVATION
TOC	TOP OF CONCRETE SLAB
TOF	TOP OF FOOTING
TOG	TOP OF GIRDERS ELEVATION
TOI	TOP OF IRON
TOS	TOP OF STEEL ELEVATION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
	ELEVATION
	FRAMING ANGLE SEE TYPICAL DETAIL
	FRAMING CHANNEL SEE TYPICAL DETAIL
	ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE RESISTING SYSTEM
	BRACED FRAME
	MOMENT RESISTING CONNECTIONS - SEE DETAIL
	MOMENT RESISTING CANTILEVER CONNECTIONS - SEE DETAIL
	KB
	KICKER BRACE
	COLUMN SIZE
	PIER MARK (PIER ELEV.)

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3D REFERENCE VIEW ONLY
SCALE:

A
S000

STRUCTURAL NOTES:

A. GENERAL

- THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN THE CONTRACT. CONTRACTOR, OWNER, AND ENGINEER SHALL FOLLOW THE DRAWINGS.
- THESE DRAWINGS (AND ANY APPENDICES, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN AS PERTINENT OR INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO DIMENSIONS, SIZES, ETC.).
- THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS. ANY OMISSIONS OR CONFLICTS BETWEEN THE PREVIOUS ELEMENTS OF THE WORK DRAWINGS AND THE SPECIFICATIONS SHALL BE REFERRED TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT.
- SPECIFIC NOTES FOR SUBMITTALS AND SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. REVIEW OF DRAWINGS FOR STRUCTURAL ELEMENTS WILL INCLUDE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANT'S DRAWINGS.
- THE CONTRACTOR SHALL LIST ALL CONDITIONS AND DIMENSIONS AT THE SITE. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFECTED ELEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS OF EQUIPMENT SHALL BE FABRICATED FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REFERRED TO THE ARCHITECT.
- THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS TO THE CONTRACT DOCUMENTS.
- OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUCTED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS STATED ON THE CONTRACT DOCUMENTS. CONTRACTOR, OWNER, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFECTED ELEMENTS.
- TOPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TOPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TOPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
- DRAWINGS AND SPECIFICATIONS ARE PROVIDED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER, CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED.
- ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE, 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.
- NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS. THESE DRAWINGS ARE THE PROPERTY OF ARW ENGINEERS AND ARE NOT TO BE COPIED OR INSTRUMENTS OF SERVICE FOR ONE USE, 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. THESE DOCUMENTS SHALL NOT BE COPIED OR COPIED IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.
- WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO".

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

- THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.12 AND 1705.13 ARE IDENTIFIED IN THE PROJECT SPECIFICATIONS. THE PROJECT SPECIFICATIONS IDENTIFY THE SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S002.
- SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTION 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS.
- ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTOR. THE TESTS AND SPECIAL INSPECTION SHALL BE LISTED 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.
- STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE STRUCTURE FOR INSPECTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUCTED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
- IN ACCORDANCE WITH IBC 1702.17, THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF THE PROJECT'S SPECIAL INSPECTION AND DEFERRED SUBMITTALS. THIS STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "1".

C. BASIS OF DESIGN

- GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2021
- SUSPENDED FLOOR LOADS
 - LIVE LOAD = 100 PSF UNREDUCED
 - DEAD LOAD = 90 PSF (10 PSF SUPERIMPOSED) + 75 PSF AT RECESSED SLAB AREAS
 - ROOF LOADS
 - MINIMUM ROOF SNOW LOAD, P_s = 22 PSF
 - FLAT-ROOF SNOW LOAD, P_s = 29 PSF
 - GROUND SNOW LOAD, P_s = 37 PSF
 - SNOW LOAD IMPACT FACTOR, I_s = 1.0
 - SNOW LOAD IMPACT FACTOR, I_s = 1.1
 - Thermal Factor, C_t = 1.1
 - Snow Factor, C_s = 1.0
 - SNOW LOAD = SHOWN ON PLANS WHERE APPLICABLE
 - LIVE LOAD = 20 PSF
 - DEAD LOAD = 20 PSF
 - Rain Intensity, I_r = 2.03 in/Hr
 - WIND LOADS
 - BASIC WIND SPEED (3 SECOND GUST): 115 MPH
 - ALLOWABLE STRESS DESIGN WIND SPEED, V_{sd} = 89 MPH
 - WIND EXPOSURE: C
 - NON-UNIFORMITY COEFFICIENT, G_{Cn} = 0.18
 - COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED FOR ASCE 7-16.
 - SEISMIC DESIGN
 - SEISMIC IMPORTANCE FACTOR, I_s = 1.25
 - SEISMIC DESIGN CATEGORY: D
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS: $S_{9-50} = 1.0$, $S_{9-50} = 0.388$
 - SEISMIC RESPONSE COEFFICIENTS: $S_{9-50} = 0.864$, $S_{9-50} = 0.388$
 - SEISMIC DESIGN CATEGORY: D
 - BASE ISOLATION SYSTEM: BRBF
 - DESIGN BASE-SHEAR, $V_{bd} = 0.135W_1$, $V_{bd} = 0.135W_1$
 - SEISMIC RESPONSE COEFFICIENT, C_s = 1.35
 - RESPONSE MODIFICATION FACTOR, R = 1.8
 - STORY DRIFT AND LATERAL DISPLACEMENT:
 - WIND DESIGN LEVEL (0.6'W(N-S)): STORY DRIFT TOTAL DISPLACEMENT LEVEL 2: 0.10" 0.10" ROOF: 0.23" 0.35"
 - WIND DESIGN LEVEL (0.6'W(E-W)): 0.09" 0.09" ROOF: 0.26" 0.33"
 - SEISMIC INELASTIC (E'cd)(N-S): LEVEL 2: 1.78" 1.78" ROOF: 3.29" 4.88"
 - SEISMIC INELASTIC (E'cd)(E-W): LEVEL 2: 2.15" 2.15" ROOF: 3.35" 5.03"
 - PERIMETER BEAM LIVE LOAD DEFLECTION LIMITS: 1.0" MAX.

D. FOUNDATION

- GENERAL
 - DESIGN SOIL PRESSURE: 1500 PSF
 - SOILS REPORT BY WESTERN TECHNOLOGIES REPORT NO. 81-0425-54, DATED: MARCH 6, 2025
 - SOIL PREPARATION UNDER FOUNDATIONS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
 - DO NOT BURIE FOUNDINGS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. ALL EXTERIOR FOUNDATIONS SHALL BE REINFORCED WITH 100% REINFORCING STEEL.
 - ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACINGS/SHORING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPERSTRUCTURE IS IN PLACE AND THE CONTRACTOR HAS BEEN PAID.
 - UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.), WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER. FORMING FOR CONCRETE COLUMNS SHALL BE IN EXCAVATED SOIL. FORMS PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDES.
 - UNLESS NOTED AND DETAILED OTHERWISE, NO PIPES, DUCTS, CONDUITS, NON-STRUCTURAL ITEMS, ETC. SHALL BE BURIED BELOW OR EMBEDDED IN FOOTINGS / FOUNDATION WALLS. SEE TYPICAL DETAIL FOR CONDITIONS WHERE THESE ITEMS CROSS OR RUN PARALLEL TO FOOTINGS / FOUNDATION WALLS.

E. CONCRETE

- ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE MORE STRINGENT OF THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW:

ELEMENT	EXPOSURE	CATEGORY	W/C	PSF	MAX. AIR CONTENT	MAX. CONCRETE	AGGREGATE	MACRO FIBER	USAGE
Interior Slabs on Grade	F0	S0	W0	C0	3000	0.50	1/2"	3.0	3/4"
Interior Slabs on Metal Deck	F0	S0	W0	C0	4000	0.50	---	3/4"	4.0
Water Retaining Vessels, Backwash	F2	S0	W2	C1	5000	0.40	---	3/4"	
Pits, Surge Tanks & Collector Tanks	F2	S0	W2	C1	5000	0.40	---	3/4"	
Mat Foundations	F0	S0	W1	C0	3000	---	1"		
FTG / Grade Beams / FDW Walls	F0	S0	W1	C0	3000	0.45	1/2"		
FTG / Grade Beams / FDW Walls	E2	S0	W1	C1	4500	0.45	Note c	1-1/2"	
Retaining Walls	F2	S0	W1	C1	4500	0.45	Note c	1-1/2"	
All Other Site Cast Concrete	F2	S0	W1	C1	4500	0.45	Note c	1-1/2"	
PT Tension/Pickledown Slabs	F2	S0	W2	C1	5000	0.45	Note c	1-1/2"	
Interior Concrete 2" or less	F0	S0	W0	C0	3000	0.50	---	3/8"	

thickness include star bars

F. REINFORCING STEEL

1. REINFORCING BAR STRENGTH REQUIREMENTS:

a. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1084 AND SHALL BE SUPPLIED IN FLAT SHEETS, ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.

2. HORIZONTAL AND VERTICAL REINFORCING BARS SHALL CONFORM TO ASTM A1044.

3. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100.

4. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A979. OBSTRUCTIONS OR INTERRUPTIONS OF THE REINFORCING BARS SHALL NOT EXCEED MORE THAN 2 BAR DIAMETERS FROM THE END OF THE REINFORCING BAR.

5. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY DETAINED BY THE CONTRACTOR.

6. FIELD BENT DOWNES SHALL BE GRADE 40 WITH SPACING INDICATED BY 1/3.

7. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:

8. EXPOSED TO WEATHER OR EARTH:

9. EXPOSED TO WEATHER OR EARTH ON ONE SIDE ONLY:

10. EXPOSED TO WEATHER OR EARTH ON BOTH SIDES:

11. EXPOSED TO WEATHER OR EARTH ON ALL SIDES:

12. EXPOSED TO WEATHER OR EARTH ON ONE SIDE ONLY:

13. EXPOSED TO WEATHER OR EARTH ON ALL SIDES:

14. EXPOSED TO WEATHER OR EARTH ON ALL SIDES:

15. EXPOSED TO WEATHER OR EARTH ON ALL SIDES:

16. EXPOSED TO WEATHER OR EARTH ON ALL SIDES:

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48. EXPOSED TO WEATHER OR EARTH ON ALL SIDES:

49. EXPOSED TO WEATHER OR EARTH ON ALL SIDES:

50. EXPOSED TO WEATHER OR EARTH ON ALL SIDES:



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REV DATE DESCRIPTION

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	NOTES
	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC		MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	•	•	•	•	1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.	
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	•	•	•	•	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	•	•	•	•	2. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION.		
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	•	•	•	•	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.		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	•	•	•	•	PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL	•	•	•	•	4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).		
MATERIAL IDENTIFICATION (TYPE / GRADE)	•	•	•	•	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED. MEET APPLICABLE REQUIREMENTS	•	•	•	•	5. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		
WELDER IDENTIFICATION SYSTEM ¹	•	•	•	•	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	•	•	•	•	6. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING BY THE FABRICATOR IS NOT REQUIRED. MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE NOT APPLICABLE. THE QC AND QA NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS.		
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)					7. NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 30-16 CHAPTER N4.3.					8. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY WITH THE REQUIREMENTS OF THE APPROPRIATE FAYING SURFACE OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKERS ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY.		
• JOINT PREPARATION					9. THICKNESS TESTS OF THE WELDED JOINTS SHALL BE TESTED BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50mm) FOR ROLLED SHAPES OR WHEN THE WEB THICKNESS EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRACK SHALL BE REJECTED AND THE WELD REWORKED OR REJECTED AND THE LOCATION.					10. WHEN REQUIRED BY APPENDIX A, TABLE A-3, WELDED JOINTS REQUIRING WELD SOUNDNESS SHALL BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED BY THE FABRICATOR. REDUCTION IN THE RATE OF UT IS PROHIBITED.		
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)					11. REDUCTION OF THE RATE OF ULTRASONIC TESTING - THE RATE OF UT IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EOR AND THE AHJ. THE RATE OF UT SHALL NOT BE REDUCED FOR JOINTS IN STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE FOR UT IS 10%. THE NDT RATE SHALL BE INCREASED TO 100% SHOULD THE REJECT RATE OF THE FABRICATOR OR ERECTOR FOR CERTAIN UNACCEPTABLE DEFECTS PROVIDED BY THE NUMBER OF WELDS COMPLETED EXCEEDS 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. AFTER A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB, THE RATE OF UT SHALL BE MAINTAINED AT 100% UNTIL SUCH A CASE. WHERE THE REJECT RATE FOR THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF AT LEAST 40 COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, THE RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING THE REJECT RATE OF THE FABRICATOR, THE NUMBER OF WELDS OVER 3 IN. (75mm) OR LESS, EACH 12 IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON EACH WELD, THE NUMBER OF WELDS OVER 12 IN. (300mm) IN LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm) EACH 6 IN. (150mm) OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD.					12. THE NDT RATE SHALL BE INCREASED TO 100% FOR THE FABRICATOR OR ERECTOR, WHERE THE REJECT RATE FOR THE WELDING OPERATOR IS GREATER THAN 10%.		
• CLEANLINESS (CONDITION OF STEEL SURFACES)					13. THE NDT REPORT SHALL BE DOCUMENTED, FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION, BY JOINT NUMBER, PIECE NUMBER AND LOCATION OF THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION.					14. DOCUMENTATION OF WELDS SHALL MEET THE PROVISION FOUND IN AISC 34-16 AND WELDING METHODS, PROCEDURES AND QUALITY CONTROL SHALL COMPLY WITH AWS D1.1 AND THE FOLLOWING:		
• TACKING (TACK WELD QUALITY AND LOCATION)					a. ARC STRIKES, GOUGES AND OTHER IMPERFECTIONS WITHIN 10 IN. (250mm) OF THE JOINT, SHALL BE REPAIRED OR REMOVED.					b. PREHEAT AND INTER-PASS REQUIREMENTS AS OUTLINED IN SECTION 3.5.		
• BACKING TYPE AND FIT (IF APPLICABLE)					c. UNACCEPTABLE CRACKS, GOUGES, AND NOTCHES WILL NOT BE PERMITTED IN THE JOINT AREA.					d. USE ELECTRODES WITH CHARPY V-NOTCH ABSORBED ENERGY EQUAL TO OR GREATER THAN 20 FT-LBS AT 20 DEGREES FAHRENHEIT AND 10 FT-LBS AT 70 DEGREES FAHRENHEIT USING TEST METHODS, AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT USING TEST PROCEDURES PRESCRIBED IN APPENDIX X OF AISC 35. ACCEPTABLE ELECTRODES INCLUDE E70TG-K2, E71 T-1.		
FIT-UP OF CJP GROOVE WELDS OF FHSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)					15. THE FABRICATOR'S QC 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 QC SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBERS, CONNECTIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.					16. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.		
• JOINT PREPARATION					17. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.					18. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.		
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)					19. QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT. THE QUALITY ASSURANCE INSPECTOR (QA) SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE FABRICATOR.					20. QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PROJECT SITE. THE QA SHALL SCHEDULE THIS WORK TO MINIMIZE INTERRUPTION TO THE WORK OF THE ERECTOR.		
• CLEANLINESS (CONDITION OF STEEL SURFACES)					21. WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED TO COORDINATE THE INSPECTION FUNCTION BETWEEN THE QC AND QA 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.					22. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.		
• TACKING (TACK WELD QUALITY AND LOCATION)					23. THE FABRICATOR'S QC 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 QC SHALL INSPECT THE ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, MEMBERS, CONNECTIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.					24. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.		
• BACKING TYPE AND FIT (IF APPLICABLE)					25. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.					26. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.		
• TACKING (TACK WELD QUALITY AND LOCATION)					27. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.					28. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.		
• BACKING TYPE AND FIT (IF APPLICABLE)					29. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.					30. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.		
• TACKING (TACK WELD QUALITY AND LOCATION)					31. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.					32. THE QC AND QA SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PREPARATION AND ERECTION OF 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.		
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• TACKING (TACK WELD QUALITY AND LOCATION)												

2021 IBC CONCRETE REBAR LAP SPLICE SCHEDULE (60KSI REBAR)																													
FOR CONCRETE APPLICATIONS (ACI 318-19)																													
BAR LOCATION	CONCRETE REINFORCING & SPLICE LENGTHS (IN)																												
	TYPE	STRENGTH	#3	#4	#5	#6	#7	#8	#9	#10	#11	COMMENTS	td	ts	tdh	td	ts	td	ts	tdh	td	ts	tdh	td	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 ⁵	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
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

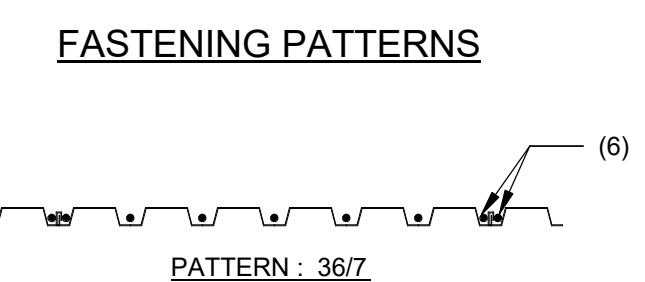
NOTES:
1. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS INDICATED ABOVE.
2. WHERE EPOXY COATING IS USED, LENGTHS INDICATED IN THIS SCHEDULE SHALL BE INCREASED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

STEEL LOOSE LINTEL SCHEDULE	
BRICK VENEER	STEEL ANGLE PER SCHEDULE (LLV IF UNEQUAL LEGS)
NOTE: PROVIDE 1" BEARING FOR EACH FOOT OF SPAN @ EACH END. (MIN. OF 6" BEARING @ EACH END)	
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"

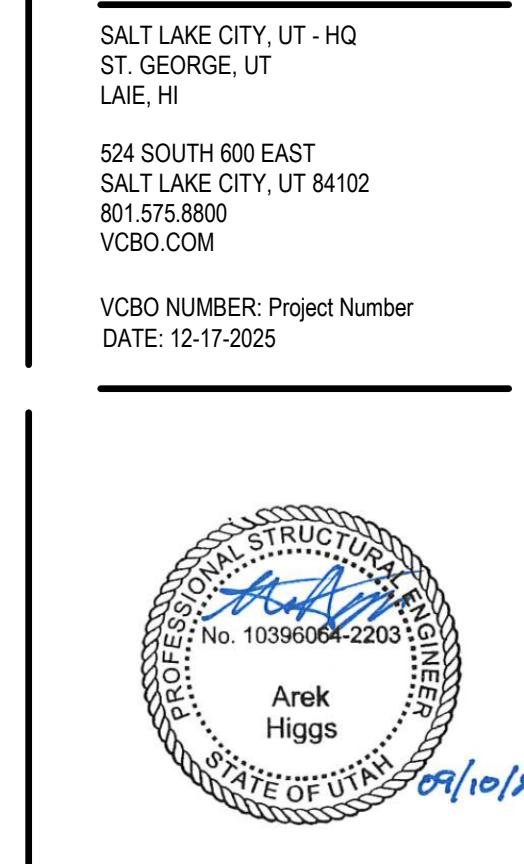
BEAM CONNECTION SCHEDULE									
BEAM DEPTH	SHEAR PLATE INFORMATION			BOLTS W/ STANDARD WASHERS OVER SLOTS	WELD 'A'	COMMENTS			
	PL. DIMENSIONS W/ SHORT-SLOTTED HOLES	Lev	Leh						
W8, W10	PL. 1/4" x REQ'D	1 1/2"	2"	2	3/4" Ø	3/16"			
W12, W14	PL. 5/16" x REQ'D	1 1/2"	2"	3	3/4" Ø	1/4"			
W16	PL. 5/16" 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"			

WIND UPLIFT SCHEDULE									
(FOR JOIST AND JOIST GIRDERS DESIGN)									
<p>KEY PLAN</p> <p>NOTE : LOADS SHOWN ARE NET UPLIFT LOADS. 60% OF DEAD LOAD HAS BEEN SUBTRACTED FROM CROSS WIND UPLIFT LOAD LOADS SHOWN ARE ASSUMING AN EFFECTIVE AREA OF 100 FT². USE ASCE7 FOR CALCULATING WIND PRESSURES FOR OTHER EFFECTIVE AREAS.</p>									

ROOF DECK SCHEDULE											
AREA	DECK		ATTACHMENT SUPPORTS		SIDE SEAMS		SUPPORTS PARALLEL TO FLUTES		MIN. SHEAR CAPACITY, lbf (ASD)	MIN. SHEAR STIFFNESS, G' (kip/in)	COMMENTS
	TYPE	G.A.	TYPE ²	PATTERN	TYPE ²	SPACING	TYPE ²	SPACING			
A	B	22	SPOT WELD	367	VCS2	24'o.c.	SPOT WELD	12'o.c.	1365	113	---



METAL DECK SCHEDULE									
TYPE	GAUGE	MINIMUM SECTION PROPERTIES		SECTION	TYP METAL DECK FILL REINF.	SHEAR CONN. (STUDS) LENGTH	REMARKS		
		1 in ⁴	+.S in ³						
B	22 GAUGE	0.175	0.187	0.198		1/2"	--	--	GALVANIZED (G60)
B	20 GAUGE	0.216	0.235	0.248		1/2"	--	--	GALVANIZED (G60)
W3 FORMLOCK	20 GAUGE	0.907	0.510	0.528	8X8 WFW	5 1/2"			



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REV DATE DESCRIPTION

1 TYPICAL REINFORCING SCHEDULE

2 TYPICAL MASONRY / JAMB REINFORCING SCHEDULE

3 MASONRY ON THICKENED SLAB

4 TYPICAL RESTRAINT OF NON-BEARING MASONRY WALLS WHERE WALLS DO NOT EXTEND TO JUST THE UDNER SIDE OF THE STRUCTURE

5 TYPICAL JOINT REINFORCING DETAIL

6 TYPICAL REINF. AT INTERSECTIONS IN MASONRY DETAIL

7 TYPICAL VERTICAL REINFORCING DETAIL

8 TYPICAL CMU BLOCK

9 TYPICAL 8" OPEN-END BOND BEAM CMU

10 TYPICAL 8" BOND BEAM CMU ("H" BLOCK)

11 TYPICAL 8" OPEN-END CMU

12 TYPICAL 8" BOND BEAM CMU (H BLOCK)

13 TYPICAL 8" OPEN-END BOND BEAM CMU

14 TYPICAL 8" OPEN-END CMU

15 TYPICAL 8" BOND BEAM CMU ("H" BLOCK)

16 TYPICAL 8" OPEN-END BOND BEAM CMU

17 TYPICAL 8" OPEN-END CMU

18 TYPICAL 8" BOND BEAM CMU ("H" BLOCK)

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1 S006 COMPOSITE FLOOR DETAIL

SCALE : NONE

2 S006 FLOOR OPENING DETAIL

SCALE : NONE

3 S006 TYPICAL ELEVATOR COLUMN AT SUSPENDED SLAB

SCALE : NONE

4 S006 FLOOR OPENING DETAIL

SCALE : NONE

5 S006 BEAMS INTO GIRDER

SCALE : NONE

6 S006 BEAM INTO COLUMN

SCALE : NONE

7 S006 DETAIL

SCALE : NONE

8 S006 DETAIL

SCALE : NONE

9 S006 DETAIL

SCALE : NONE

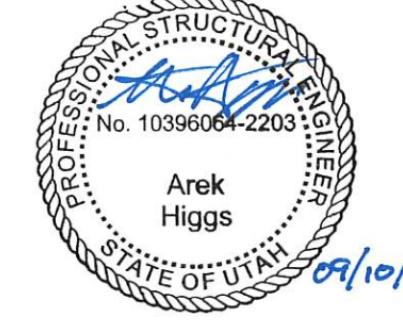
10 S006 TYPICAL SLAB EDGE DETAIL

SCALE : NONE

11 S006 TYPICAL SLAB EDGE DETAIL

SCALE : NONE

12/15/2025 11:25:59 AM Autodesk Docs #25085.00 - Life Time Fitness - Herriman UTS - 25080 - Lifetime Fitness Herman - 2025 v1



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C REV DATE DESCRIPTION

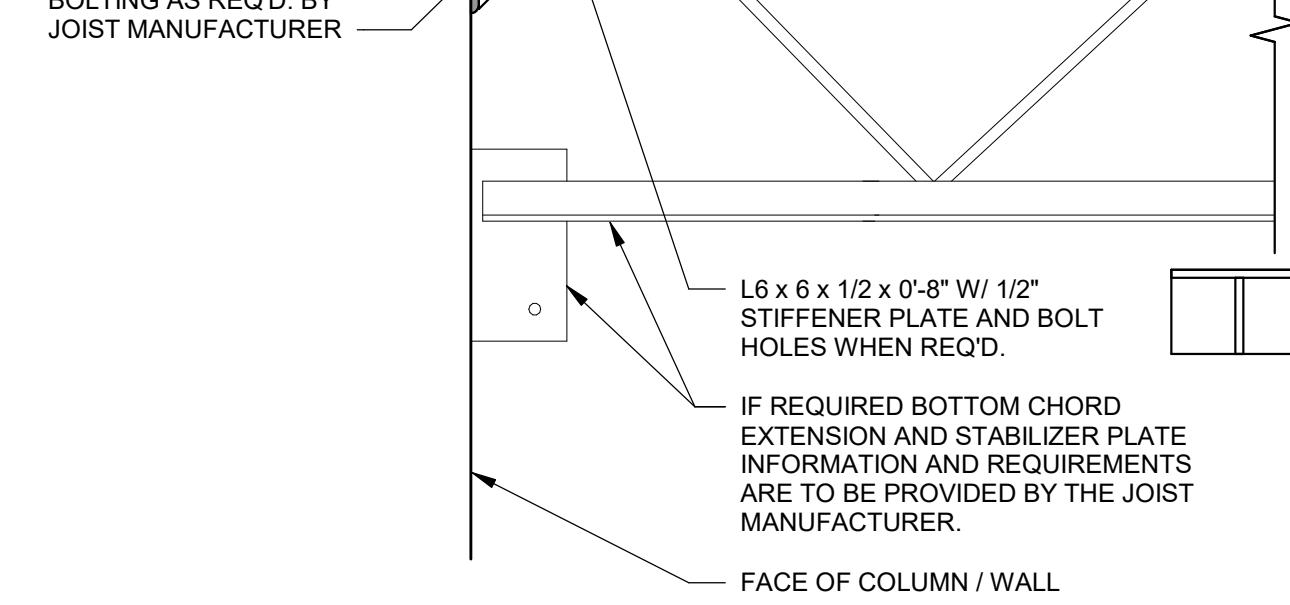
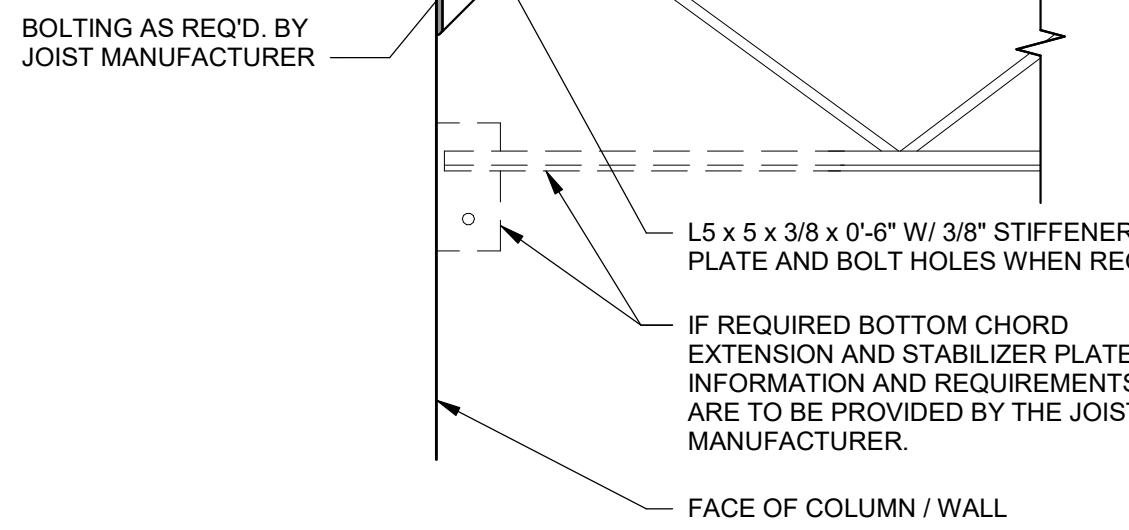
HERRIMAN, UT

4684 W 12600 S
RIVERTON, UT 84066
BID SET

TYPICAL DETAILS - STEEL

S008

12/15/2025 11:28:00 AM

NOTE: WELD SHALL BE FIELD WELDED
AT MASONRY AND CONCRETE
EMBEDS AND SHOP WELDED AT STEEL
TO STEEL CONNECTIONS.NOTE: WELD SHALL BE FIELD WELDED
AT MASONRY AND CONCRETE
EMBEDS AND SHOP WELDED
AT STEEL TO STEEL CONNECTIONS.

TYP. 'K'-'LH'-'GIRDER' SERIES JOIST BEARING SEAT (U.N.O.)

SCALE: NONE

1
S008

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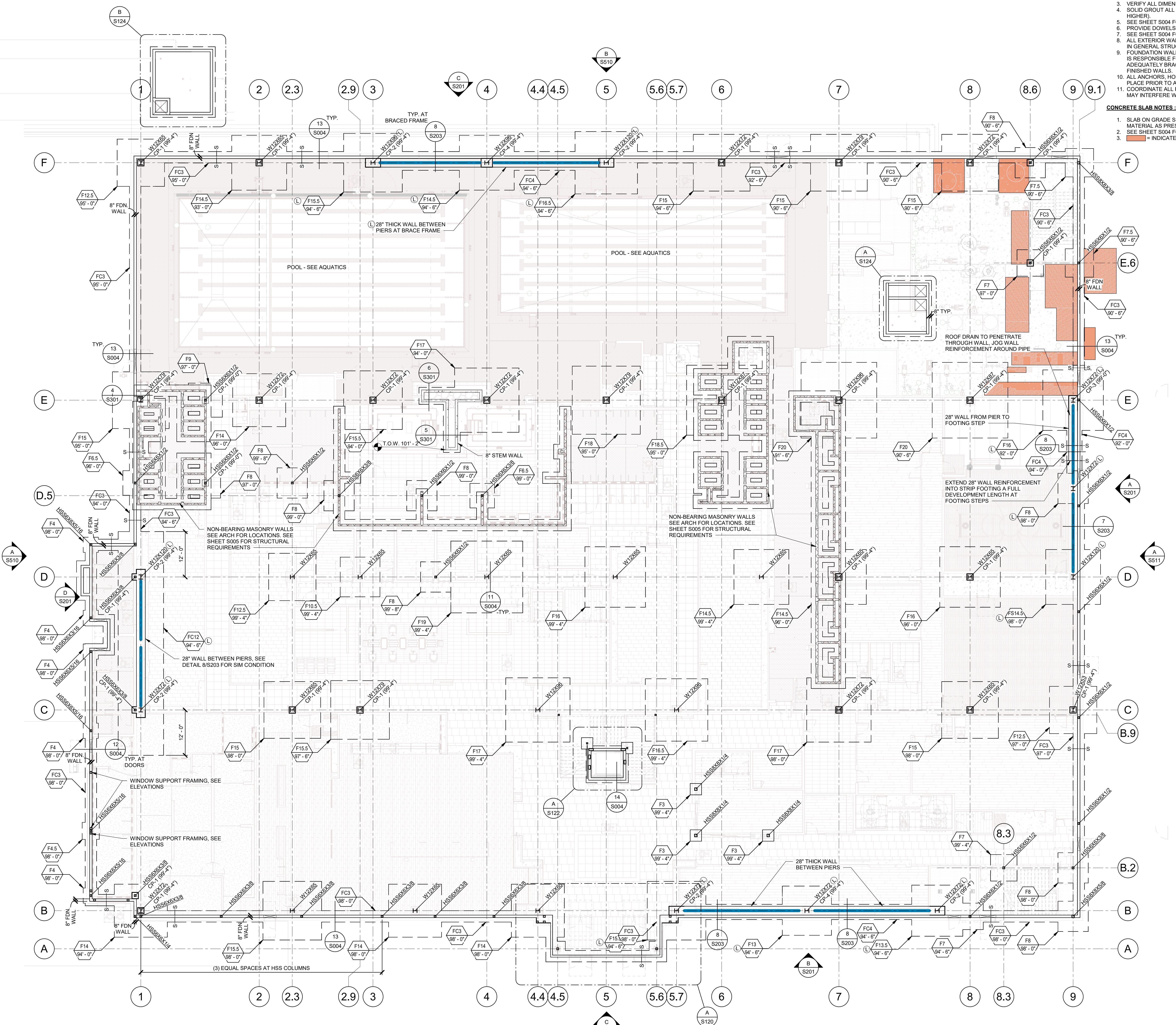
1 20250926 Addendum 001

HERRIMAN, UT

4684 W 12600 S
RIVERTON, UT 84096
BID SET

FOOTING & FOUNDATION PLAN

S101





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REV DATE DESCRIPTION
1 20250926 Addendum 001SECOND FLOOR FRAMING PLAN
SCALE: 3/32" = 1'-0"



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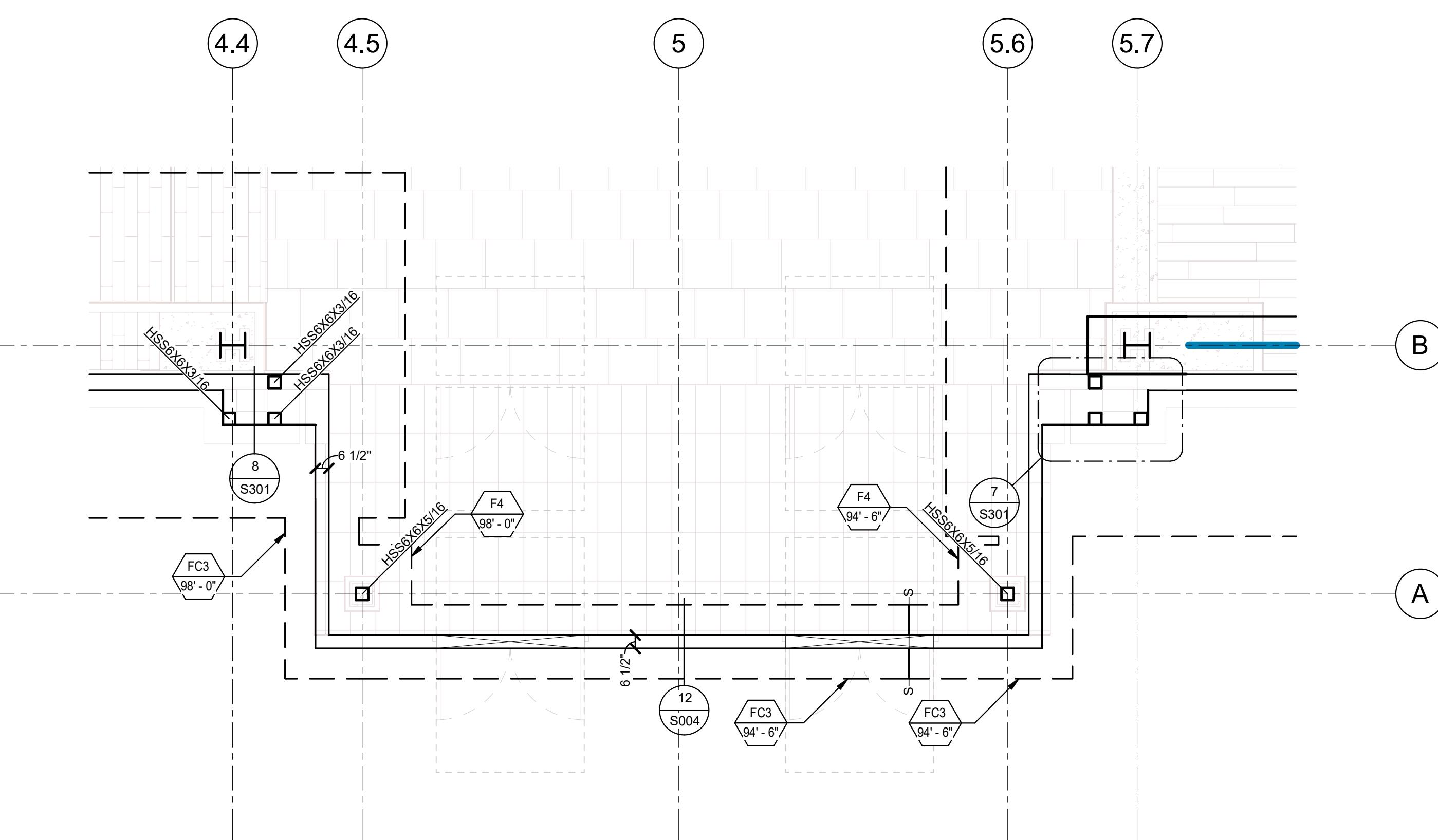
REV DATE DESCRIPTION

HERRIMAN, UT

4684 W 12600 S
RIVERTON, UT 84096
BID SET

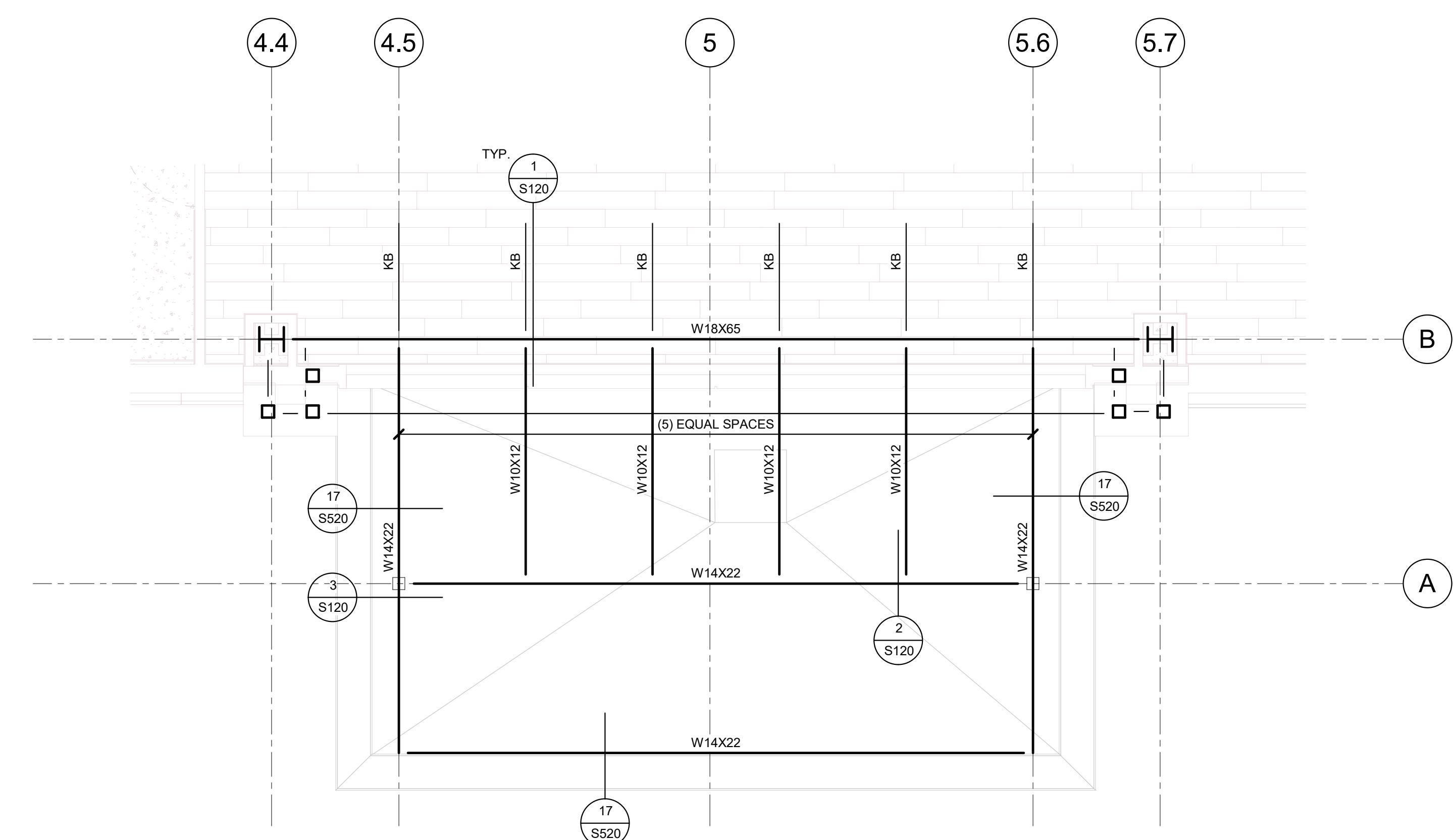
ENLARGED FRONT
ENTRANCE PLAN

S120



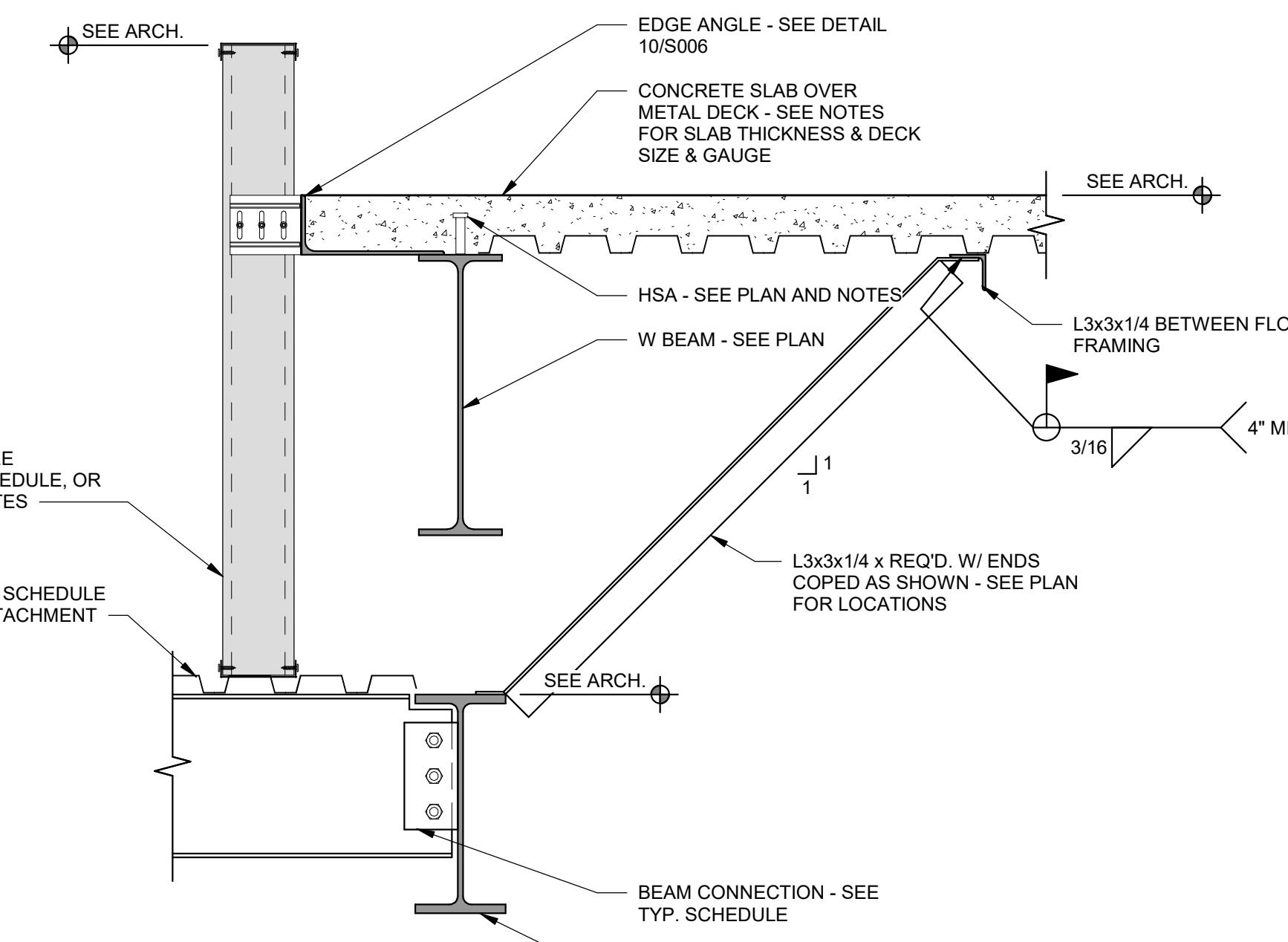
ENLARGED ENTRANCE FOUNDATION PLAN

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



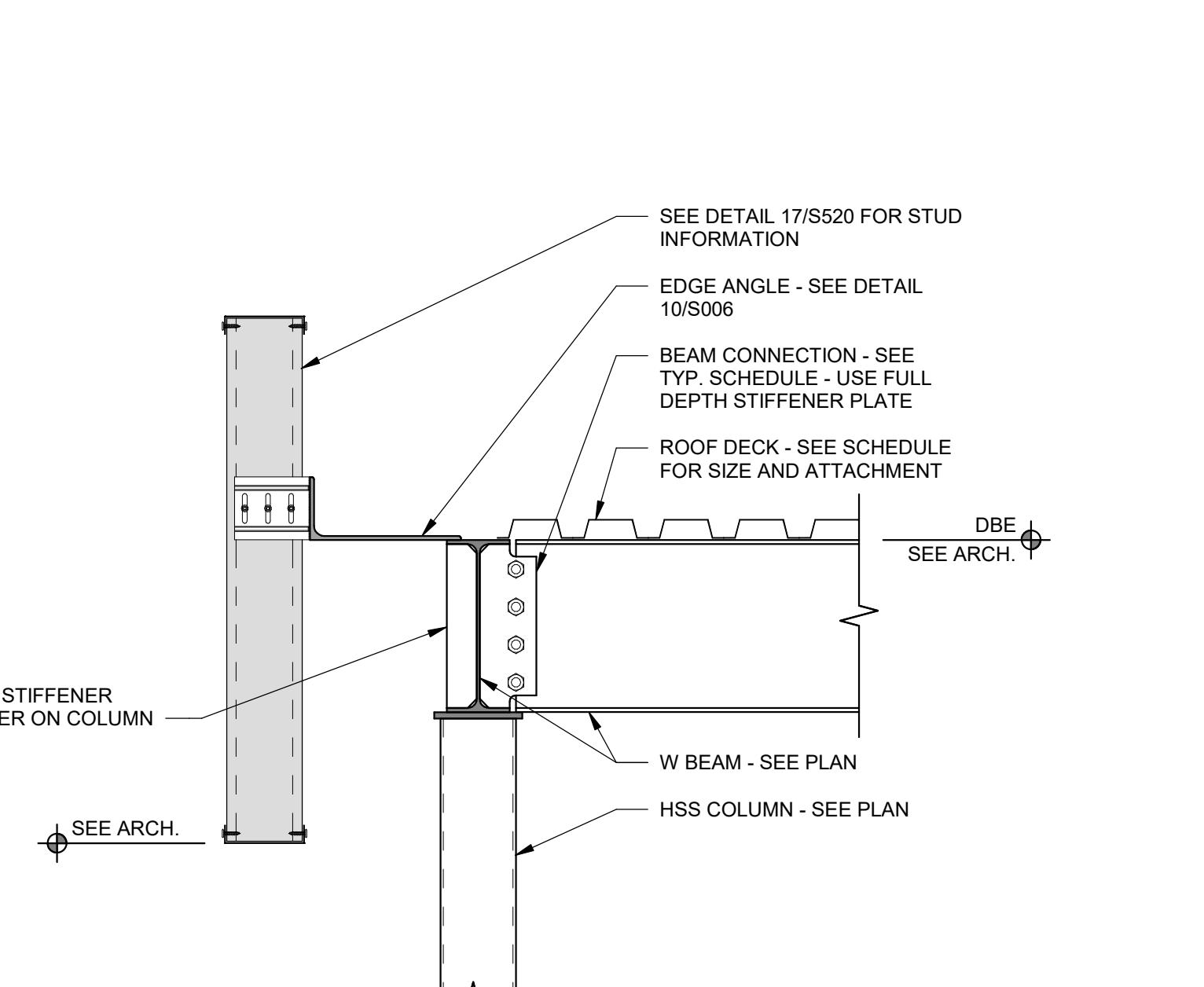
ENLARGED ENTRANCE FRAMING PLAN

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



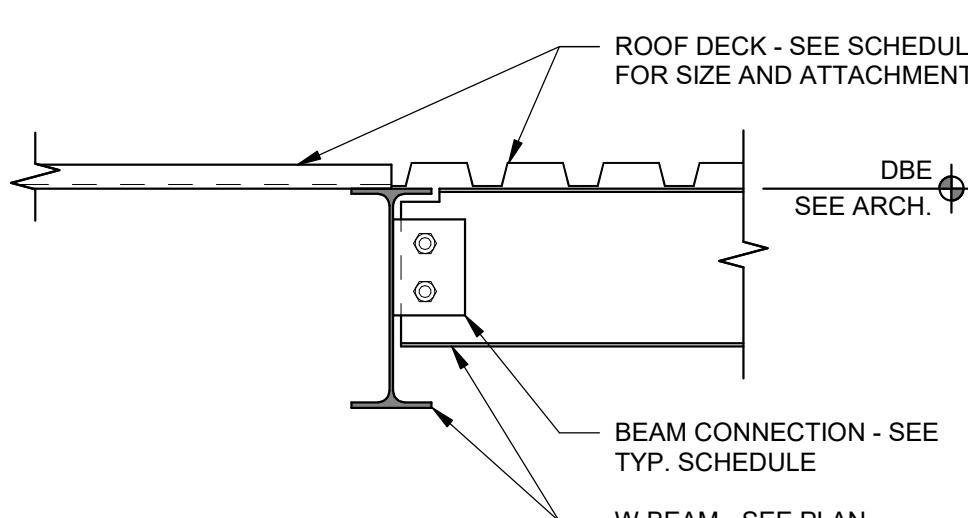
DETAIL

SCALE : NONE



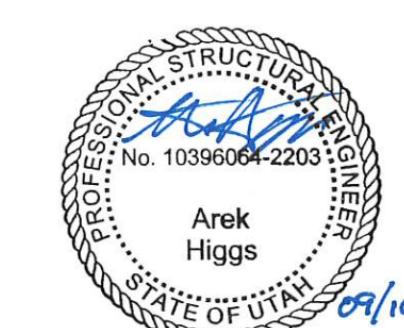
DETAIL

SCALE : NONE



DETAIL

SCALE : NONE

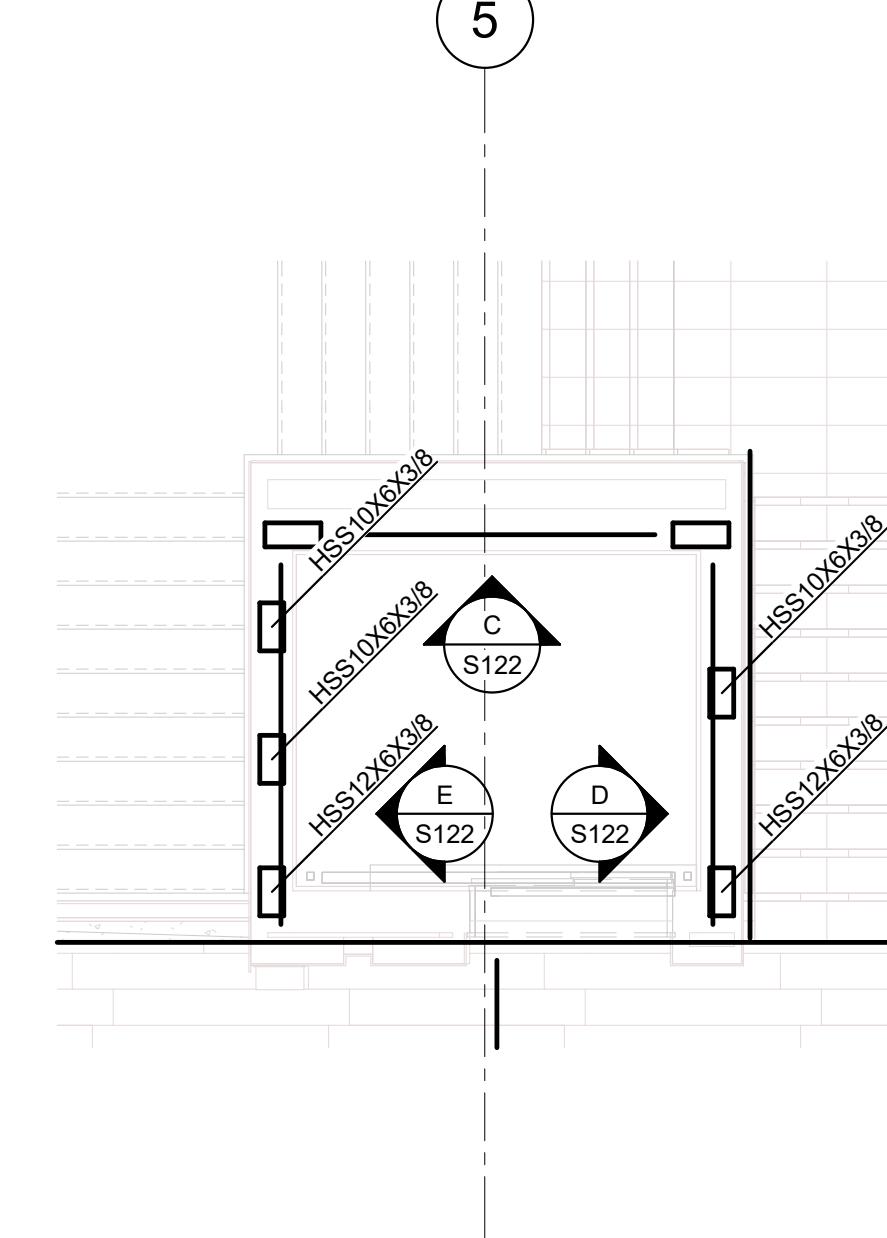


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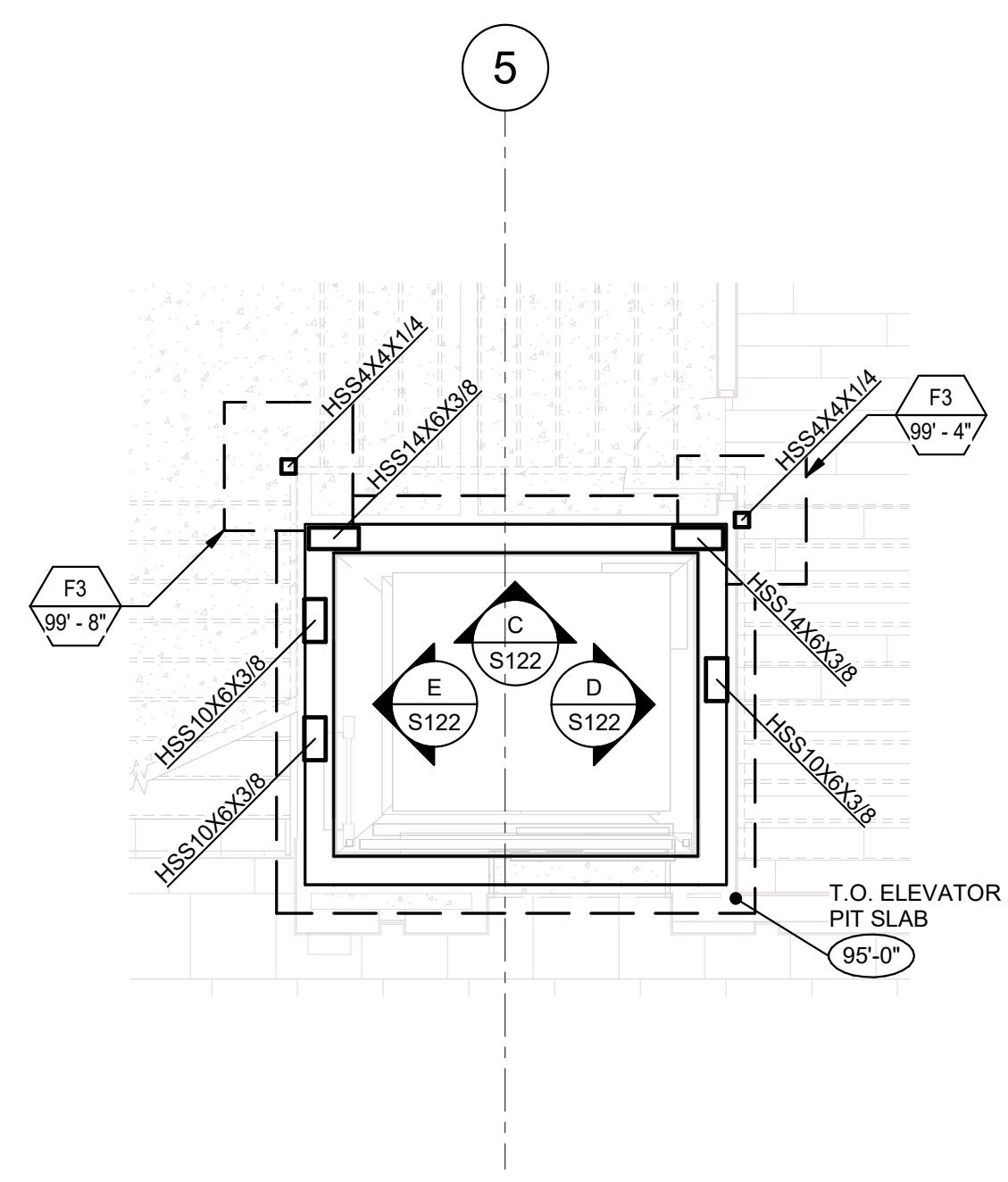
ENLARGED CENTRAL ELEVATOR - SECOND FLOOR FRAMING PLAN

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

B
S122

ENLARGED CENTRAL ELEVATOR - FOOTING & FOUNDATION PLAN

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

A
S122

ELEVATION

SCALE: NONE

ELEVATION

SCALE: NONE

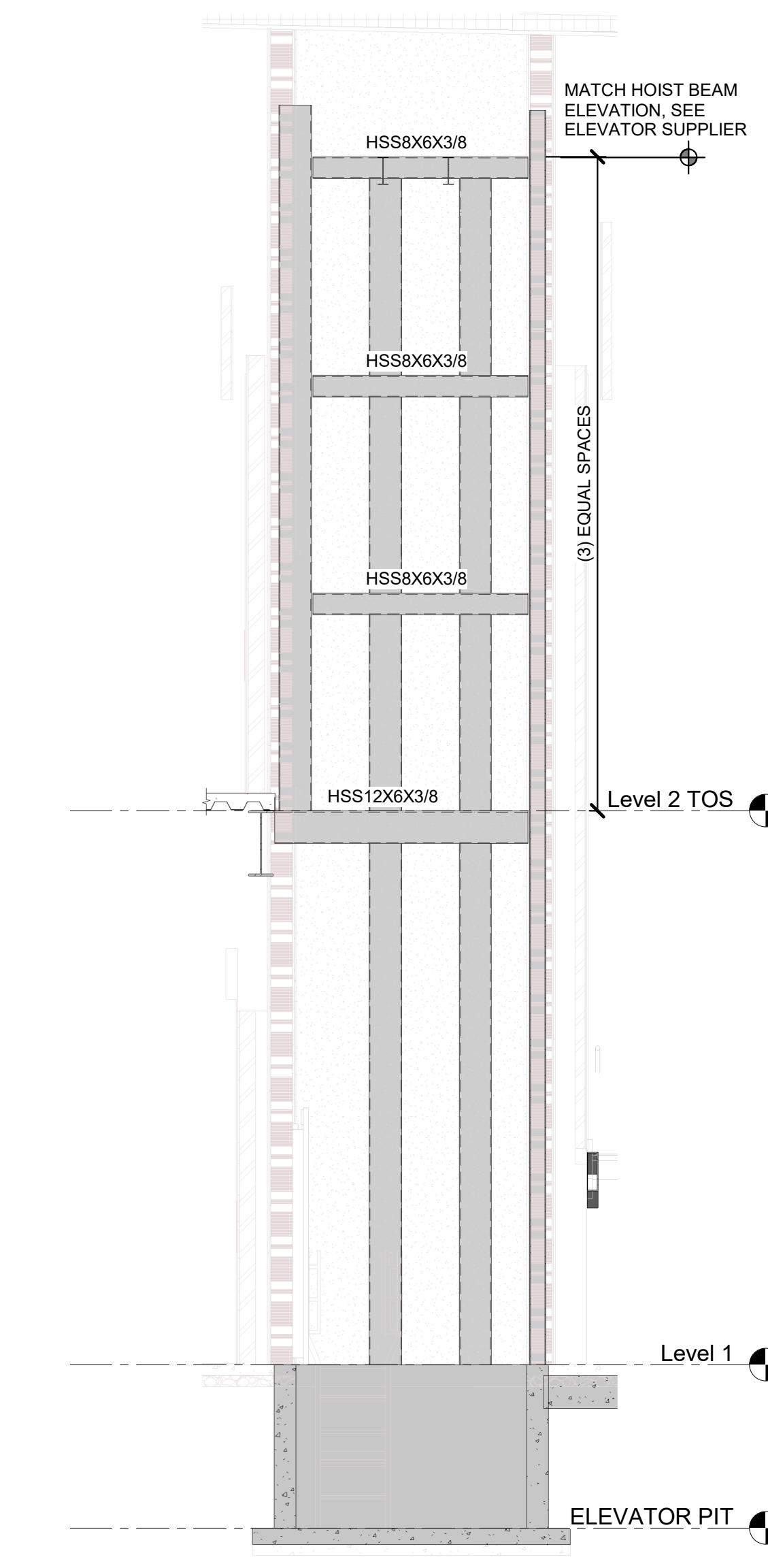
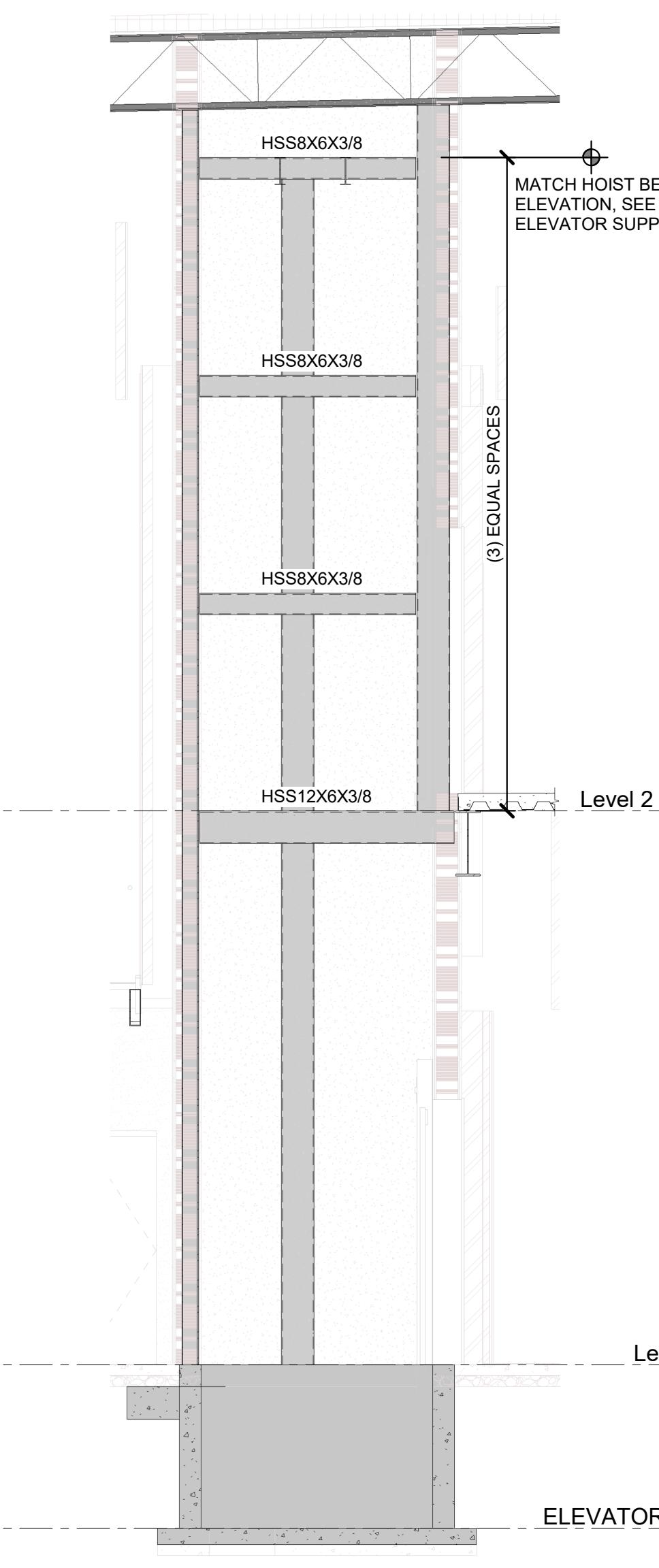
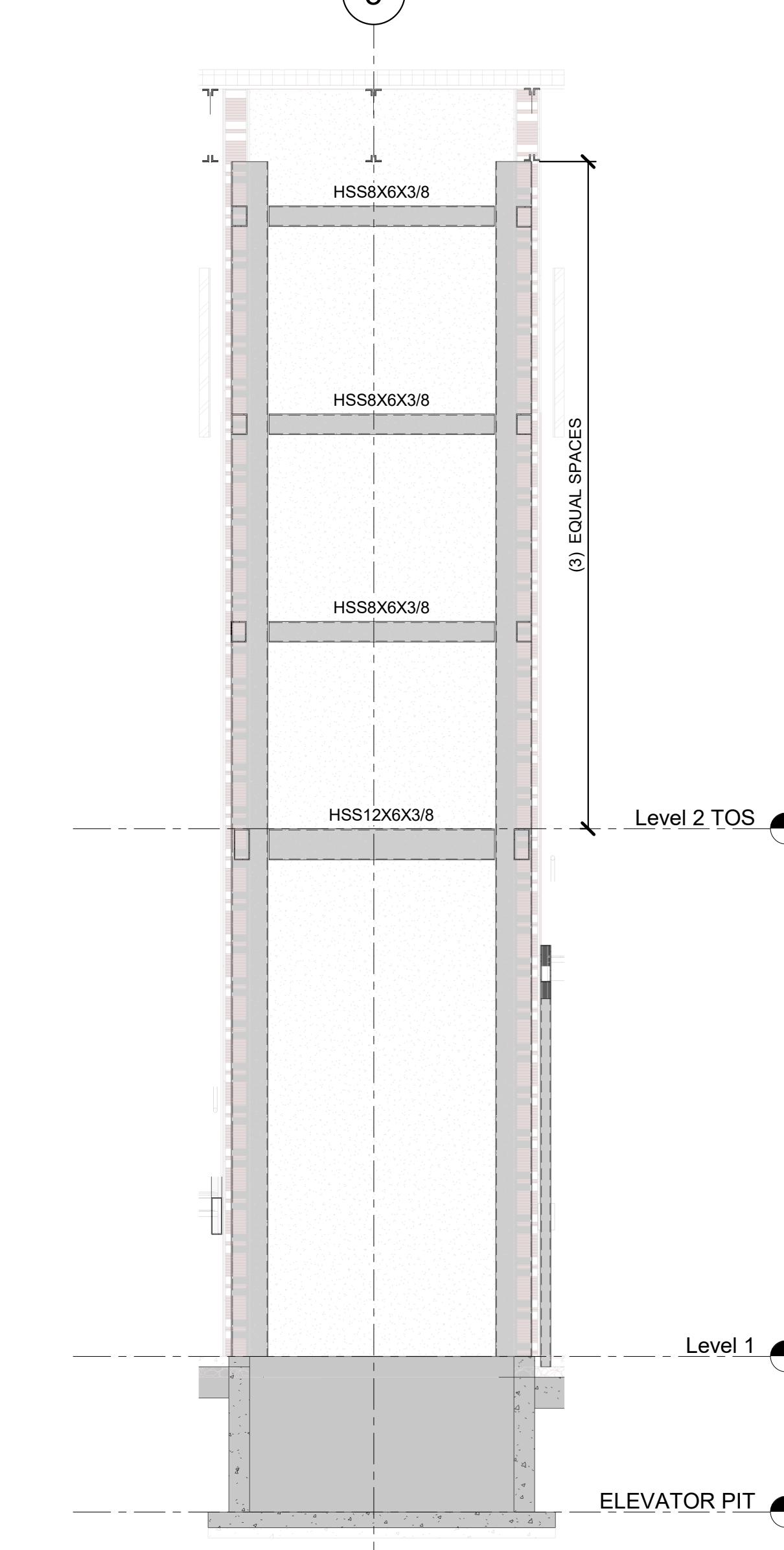
ELEVATION

SCALE: NONE

ELEVATION

SCALE: NONE

5



INTERIOR SURGE TANK

SCALE : 3/8" = 1

EXTERIOR SURGE TANK

SCAL

EXTERIOR SURGE TANK

SCALE : N

EXTERIOR SURGE TANK

SCALE : NONE

A technical cross-section diagram of a concrete structure. The diagram shows a horizontal concrete slab with a vertical joint. A 'WATERSTOP - TYP. AT ALL JOINTS' is indicated with a callout line pointing to the vertical joint. The waterstop is a thick, dark, L-shaped strip. The concrete is represented by a pattern of small triangles. A vertical line with a circle at the top is also present in the diagram.

6

TYPICAL REINFORCING @ CONCRETE WALL & SLAB OPENINGS DETAIL

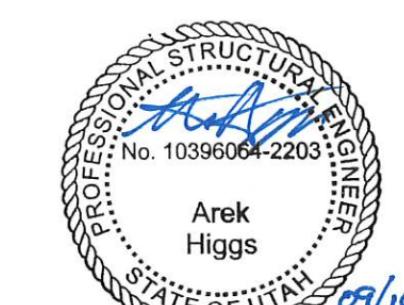
SCALE : NONE

9

ENLARGED PLAN AT SURGE TANK

TANK

6124



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AND INDEMNIFY LT FROM ANY DAMAGES OR
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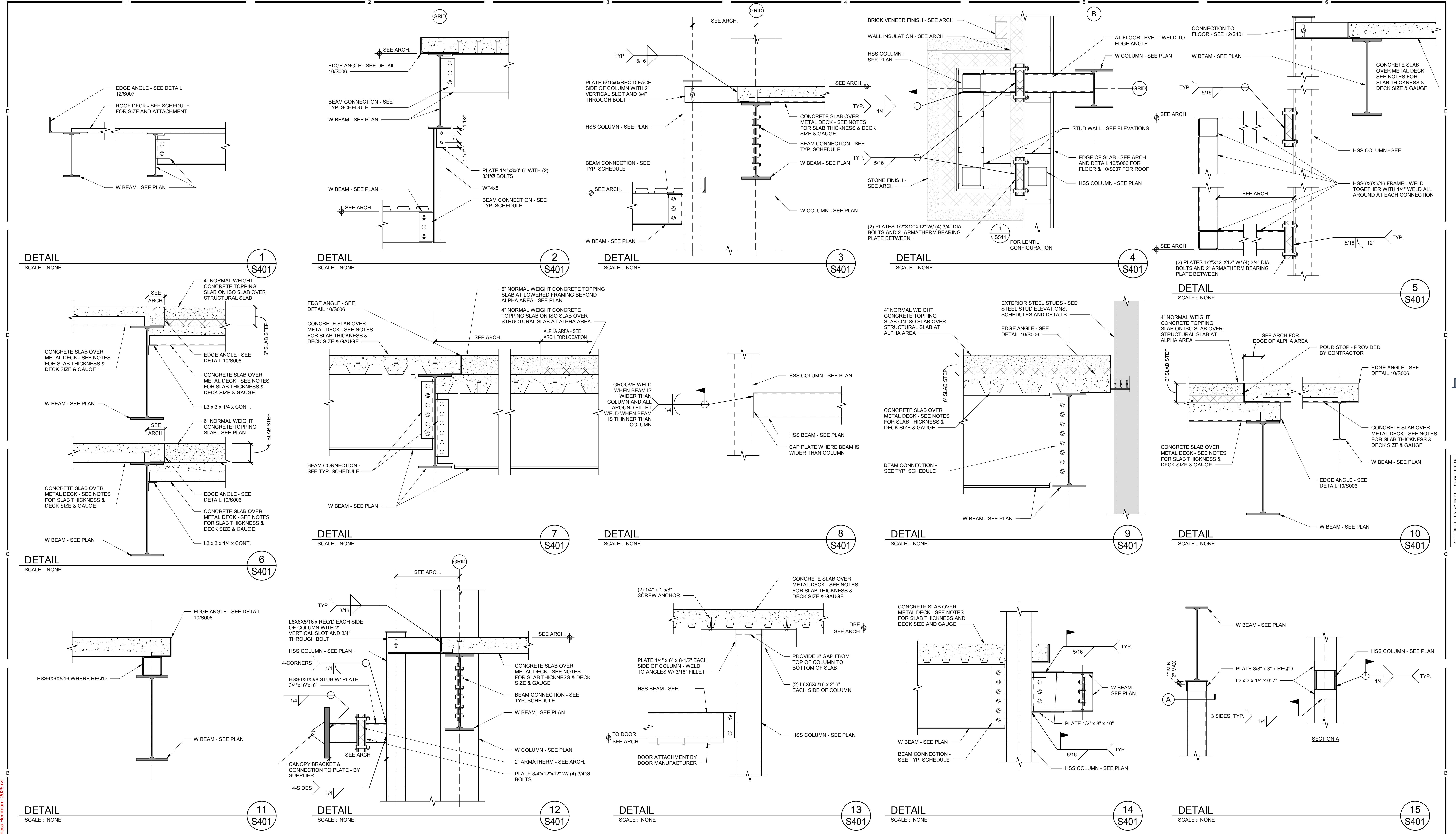
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HERRIMAN, UT

4684 W 12600 S
RIVERTON, UT 84096
BID SET

STEEL FRAMING DETAILS

S401



EXTERIOR METAL STUD FRAMING NOTES:

A. GENERAL

- 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 ARE NOT TO BE USED AS THE ONLY DRAWINGS. 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 COST TO THE CONTRACTOR.
- 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 DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE SPECIALTY STRUCTURAL ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
- OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- SUBJECTS OF ARW APPROVAL BY THE CONTRACTOR, THE COLOR OR SIMILAR DETAILS AND SECTION SPANS APPLY WHERE SPECIFIC DETAILS ARE NOT PROVIDED. TYPES OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS.
- DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER, CONTRACTOR 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.
- 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 WHETHER DOCUMENTED IN THE CONTRACTOR'S DESIGN DOCUMENTS.
- 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 PROHIBITED EXCEPT AS PROVIDED IN THE CONTRACT DOCUMENTS AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT.
- SPECIALTY STRUCTURAL OBSERVATION VISITS WHEN PROVIDED SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT TO 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

- SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1708 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 S501 JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL NOT BE REQUIRED TO PROVIDE SPECIAL INSPECTION REPORTS.
- 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**
 - WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS.
 - 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, SUBSTITUTIONS OF OTHER BRANDS AND/OR TYPES IS NOT ALLOWED.
 - 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.
 - ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICCE, IAPMO, OR APPROVED EQUAL) AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
 - ANCHORS AND/OR ANCHOR BOXES SHALL BE INSTALLED IN CONCRETE WITH A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS REACHED DESIGN STRENGTH.
 - UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE REINFORCED WITH REBAR 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.
 - COMPLETE 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.
 - INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION AGENCY. CONTRACTOR SHALL NOT BE REQUIRED TO PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE ACI/CSRS ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-19 18.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED.
 - UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:
 - HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-A (ESR-3187).
 - SIMPSON SET-3G (ESR-0457), OR AT-XP (ER-0263).
 - DEWALT SCREWBOULD 1 (ESR-3000) (ESR-4027-COLD WEATHER).
 - UNLESS NOTED OTHERWISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:
 - SIMPSON STRONG-BOLT 2 (ESR-3037).
 - HILTI KWK BOLT-TZ (ESR-2466).
 - UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:
 - SIMPSON TITEN HD (ESR-2713).
 - DEWALT SCREWBOULD+ (ESR-3899).
 - HILTI KWK HUS-EZ (ESR-3027).
 - THE CONTRACTOR SHALL 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 DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD.
 - IF REINFORCEMENT IS ENDED DURING DRILLING, ABRAND THAT HOLE AND SHIFT THE ANCHOR LOCATIONS 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 ABRANDED HOLE. FILL THE ABRANDED HOLE WITH NON-SHRINK GROUT. AT CONTRACTOR'S OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR AND DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
 - LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

D. SUPPLEMENTARY STRUCTURAL STEEL

- WHEN SUPPLEMENTARY STRUCTURAL STEEL HAS BEEN DETAILED IN THESE DOCUMENTS IT SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING:
 - ANSI/AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", WITH COMMENTARY AND "SUPPLEMENTS" AS REQUIRED BY BUILDING CODE.
 - ASCE 303-16 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCLUDING THE "COLD-FORMED STEEL" SECTION.
 - AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
 - ASCE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
 - AWS D1.1 AND 1.3, "STRUCTURAL WELDING CODE" (EXCEPT SPECIFIC ITEMS DO NOT APPLY IF THEY ARE NOT LISTED).
 - ANSI/AISC 341-16 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS".
- SUPPLEMENTARY STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING:
 - PLATES - ASTM A-36 (LINES).
 - CONCRETE STRUCTURAL CONNECTIONS (HSS) - ASTM A-36, GRADE C FOR SQUARE, RECTANGULAR, AND ROUND SHAPES (F = 50 KSI FOR SQUARE AND RECTANGULAR SHAPES AND 46 KSI FOR ROUND SHAPES).
 - PIPE COLUMNS - ASTM A-53, GRADE B TYPE E OR S.
 - CONCRETE COLUMNS - CONCRETE COLUMNS SHALL BE FABRICATED IN ACCORDANCE WITH DRAWINGS UNLESS WRITTEN APPROVAL TO CHANGE IS GIVEN BY THE SPECIALTY STRUCTURAL ENGINEER.
 - ALL SHOP FABRICATIONS SHALL BE PERFORMED BY AN APPROVED FABRICATOR IN ACCORDANCE WITH SECTIONS 1704 AND 1704 OF THE IBC OR WITH SHOP INSPECTION BY AN INDEPENDENT AGENCY IN ACCORDANCE WITH SECTION 1704.2.9 OF THE IBC.
 - WELDING:
 - ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS IN ACCORDANCE WITH ANSI/AWS D.1.1 (LATEST EDITION).
 - USE E-60XX ELECTRODES UNLESS NOTED OTHERWISE.

E. COLD-FORMED STEEL

- LIGHT GAUGE STEEL FRAMING
 - WHERE STEEL FRAMING SIZE DESIGNATORS ARE USED IN THE DRAWINGS, THEY SHALL FOLLOW THE CONVENTION ESTABLISHED BY THE STEEL STUD MANUFACTURERS' ASSOCIATION (SSMA). ALL STUDS AND TRACKS PROVIDED SHALL COMPLY WITH THE DESIGNATIONS ACCORDING TO THIS CONVENTION.
 - 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 G30 GALVANIZED. ALL COMPONENTS SHALL HAVE THE FOLLOWING YIELD STRESSES:

COMPONENT	BASE METAL THICKNESS	YIELD STRESS
STUDS & TRACKS	30, 34, 38, 42, 46, 50, 54, 60, 68 & 72 MILL	50,000 PSI
END CLOSURES & BRIDGING	33, 43, 54 & 68 MILL	33,000 PSI
- FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS FOR THE USE OF THESE PRODUCTS. ALL STUDS AND TRACKS PROVIDED 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 THE CONVENTIONAL WELDING PROCESS (ASME A7-80).
- ERCTION TOLERANCES
 - CONCRETE FOUNDATION SHALL BE LEVEL AND FREE FROM DEFECTS. IF THE FOUNDATION IS NOT LEVEL, THE TOLERANCE SHALL BE MADE TO PROVIDE A UNIFORM BEARING SURFACE WITH A MAXIMUM DEFLECTION OF 1/8" OVER 10 FEET.
 - ALL STUDS AND TRACKS SHALL BE PLACED IN A STRAIGHT LINE. STUDS 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.
 - ALL COLD-FORMED FRAME MEMBER SHALL BE INSTALLED PLUMB, SQUARE AND TRUE PER THE ERECTOR'S DESIGN.

3. CONNECTIONS AND FASTENERS

- CONCRETE FOUNDATION SHALL BE LEVEL AND FREE FROM DEFECTS. IF THE FOUNDATION IS NOT LEVEL, THE TOLERANCE SHALL BE MADE TO PROVIDE A UNIFORM BEARING SURFACE WITH A MAXIMUM DEFLECTION OF 1/8" OVER 10 FEET.
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17. CONNECTIONS AND FASTENERS

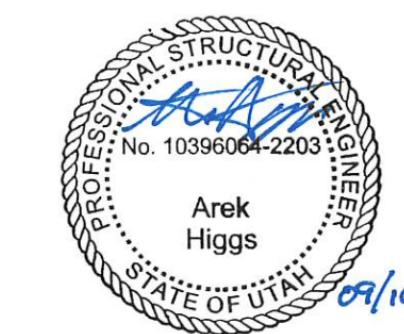
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19. CONNECTIONS AND FASTENERS

- CONCRETE FOUNDATION



CONFIDENTIALITY NOTICE
BY ACCEPTING THIS MATERIAL, THE
RECIPIENT ACKNOWLEDGES AND AGREES
THAT THE INFORMATION CONTAINED HEREIN
IS CONFIDENTIAL AND SHALL NOT BE
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REV DATE DESCRIPTION

WALL SCHEDULE						BRIDGING OPTIONS	
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							

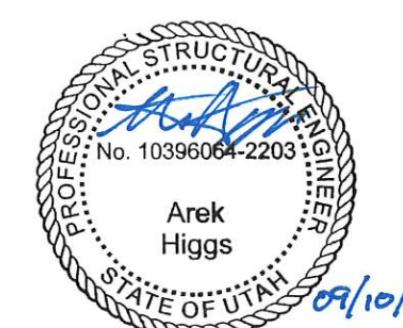
NOTE:
1. USE SSW-1 UNLESS NOTED OTHERWISE.
2. ATTACH BOTTOM TRACK TO SLAB PER 2/S520.
3. ATTACH HEAD OF WALL PER DETAIL 6/S520.

JAMB STUD SCHEDULE					
MARK	MAX. OPENING	# OF JAMB STUDS	CONFIGURATION	CONCRETE CONNECTION	FLOOR / ROOF CONNECTION
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
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		

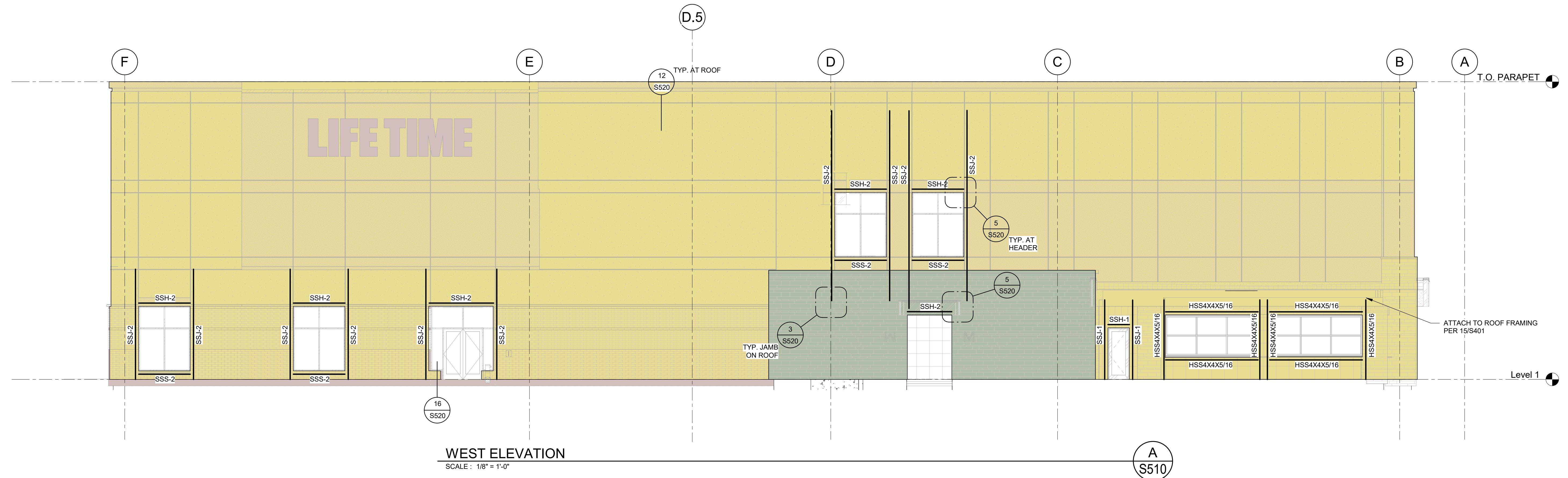
SPECIAL INSPECTION SCHEDULE 1,2							
ESTABLISHED PER 2021 IBC SECTION 110 AND CHAPTER 17							
ITEM	CONTINUOUS ¹	PERIODIC ²	REFERENCE	COMMENTS			
COLD FORMED FRAMING (IBC 1705.12.2 & 1705.13.3) LIGHT GAUGE METAL FRAMING WELDING			•	CF1. SPECIAL INSPECTION IS NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS, BRACERS, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLDOWNS 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.			
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 SECTION. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL, ANY SUBCONTRACTOR, AND THE SPECIAL INSPECTOR. THE SPECIAL INSPECTOR SHALL REPORT ANY DEFECTS 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)							



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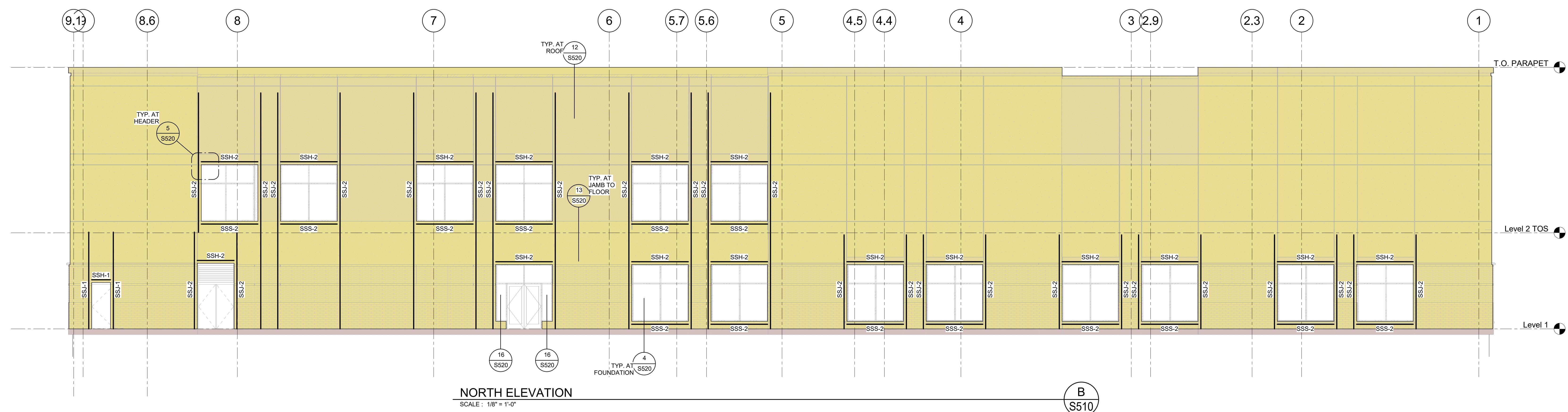
REV DATE DESCRIPTION
1 20250926 Addendum 001

LIFE TIME



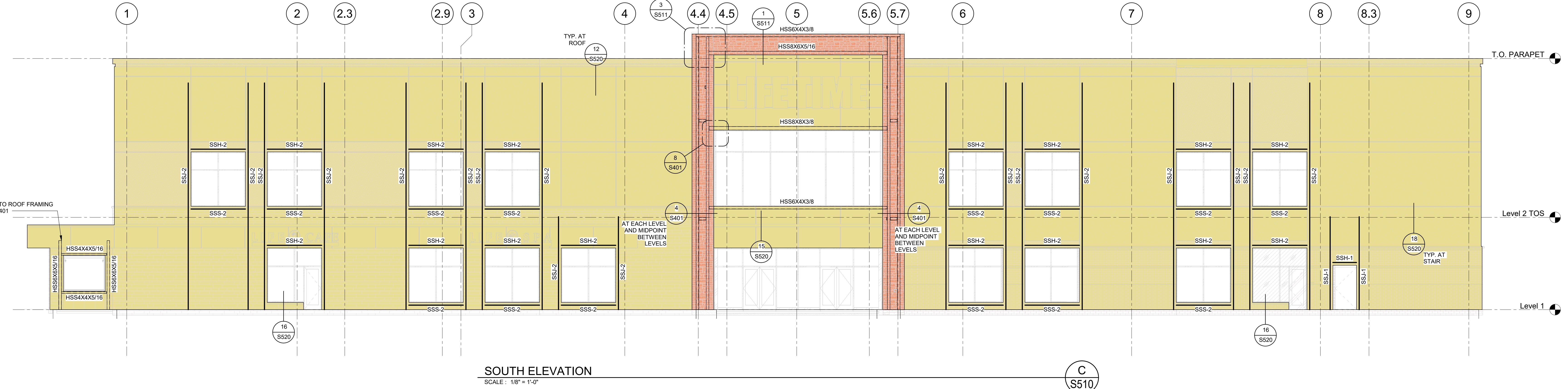
WEST ELEVATION

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



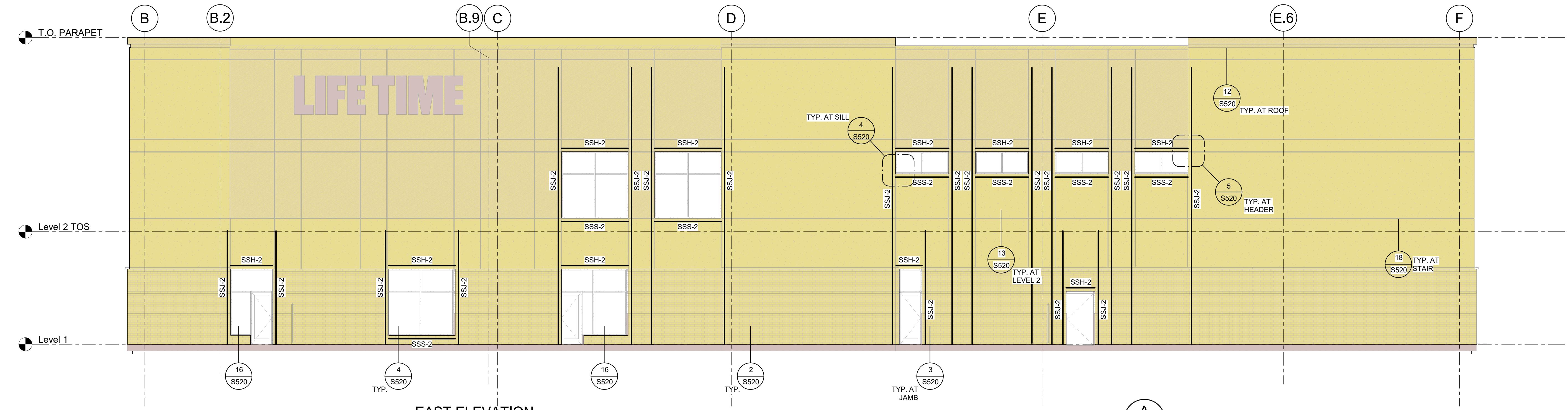
NORTH ELEVATION

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



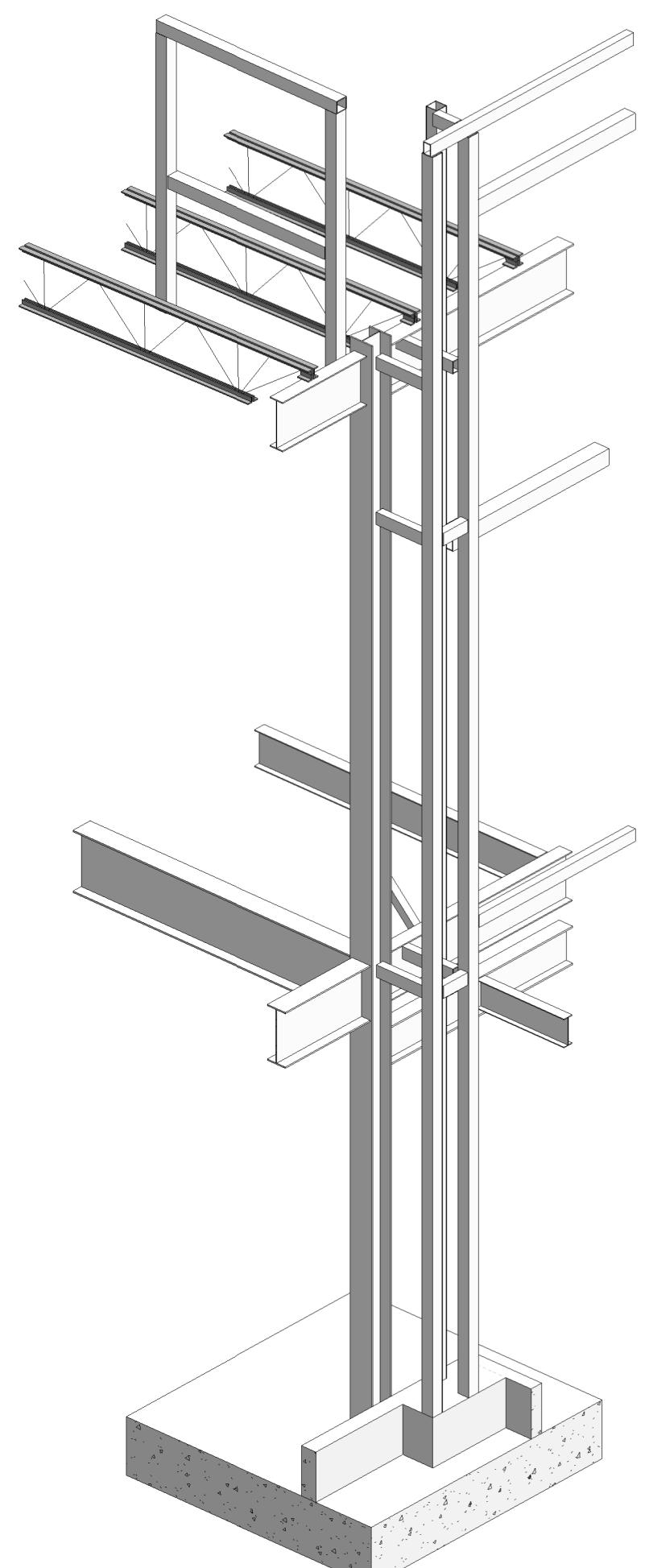
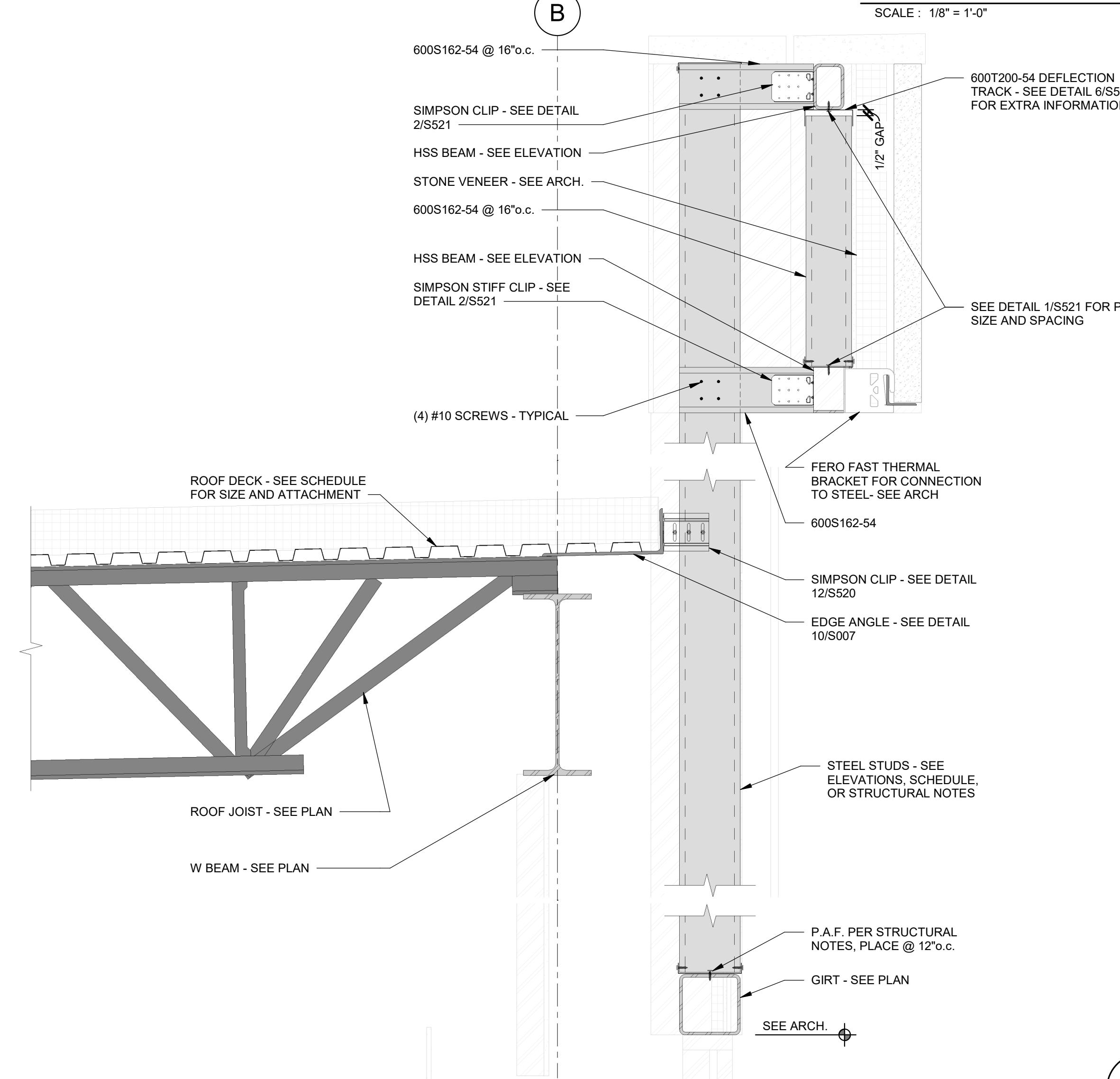
SOUTH ELEVATION

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



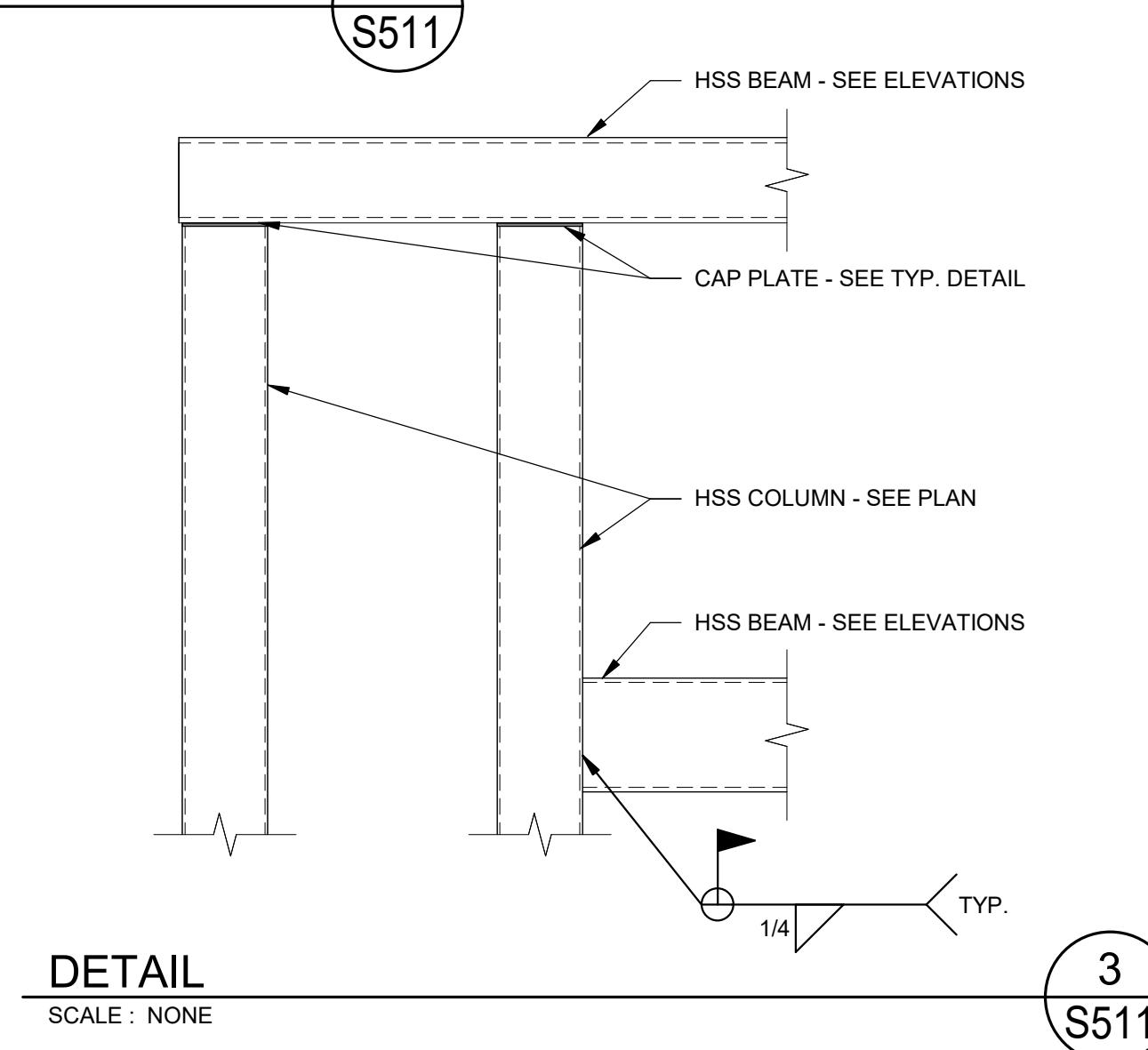
EAST ELEVATION

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



ENTRANCE FRAMING 3D REFERENCE VI

SCALE :

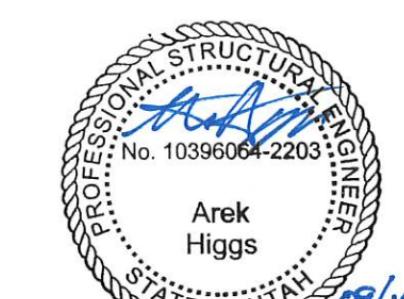


DETAIL

SCALE : NONE

5


DETAIL



ARW ENGINEERS

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