

STUDIO 333 ARCHITECTS

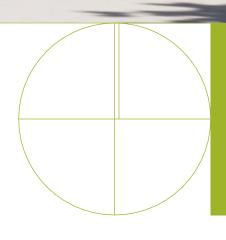
333 24TH STREET OGDEN, UT 84401 801.394.3033 WEST FIELD SR SEMINARY 4383 W 2200 S, OGDEN, UT

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NO.	DATE	DESCRIPTION

CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154





RENDERINGS

A10.3



WEST FIELD SR SEMINARY 4383 W 2200 S, OGDEN, UT

0. DATE DESCRIPTION	
	CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154





RENDERINGS

A10.4

STRUCTURAL NOTES :

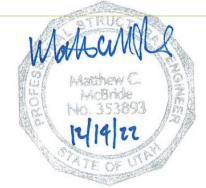
A. GENERAL

- 1. 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 OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS.
- 2. THESE DRAWINGS (AND, WHERE APPLICABLE, 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 TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).
- 3. 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 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 STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- 4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. 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. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.
- 5. 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 PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.
- 6. 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 THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.
- 7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS
- 8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.
- 9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS. 10. 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. 11. 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. 12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL
- STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER 13. 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.
- 14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS, ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE 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. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.
- 15. 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**
- 1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL
- INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET 50.04.2. 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, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL
- COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS. 3. 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 4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION 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 CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.
- 5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "L"
- C. BASIS OF DESIGN
- 1. GOVERNING BUILDING CODE : INTERNATIONAL BUILDING CODE (IBC) 2018
- RISK CATEGORY : III 2. MEZZANINE LOADS
- a. LIVE LOAD = 40 PSF UNREDUCED
- b. DEAD LOAD = 20 PSF 3. ROOF LOADS
- a. FLAT-ROOF SNOW LOAD, Pf: 27 PSF
 - GROUND SNOW LOAD, Pg: 34 PSF SNOW EXPOSURE FACTOR, Ce: 1.0
 - SNOW LOAD IMPORTANCE FACTOR, Is: 1.1
- 4. THERMAL FACTOR, Ct: 1.0
- 5. SLOPE FACTOR, C_S : 1.0 6. SNOW DRIFT : SHOWN ON PLANS WHERE APPLICABLE.
- b. LIVE LOAD = 20 PSF
- c. DEAD LOAD = 20 PSF 4. WIND DESIGN
- a. BASIC WIND SPEED (3 SECOND GUST) : 109 MPH
- b. ALLOWABLE STRESS DESIGN WIND SPEED, VASD : 85 MPH c. WIND EXPOSURE : C
- d. INTERNAL PRESSURE COEFFICIENT, G_{CPI}: ±0.18
- e. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED PER ASCE 7-16. 5. SEISMIC DESIGN
- a. SEISMIC IMPORTANCE FACTOR, IE: 1.25 b. SITE CLASS : D
- c. MAPPED SPECTRAL RESPONSE ACCELERATIONS : $S_S = 1.135$, $S_1 = 0.405$ d. SPECTRAL RESPONSE COEFFICIENTS : $S_{DS} = 0.908$, $S_{D1} = 0.512$
- e. SEISMIC DESIGN CATEGORY : D f. BASIC SEISMIC-FORCE-RESISTING SYSTEM : LIGHT FRAMED WOOD SHEAR WALLS
- g. DESIGN BASE SHEAR : $V_{N-S} = 106 \text{ K}$, $V_{E-W} = 106 \text{ K}$ SEISMIC RESPONSE COEFFICIENT, Cs: 0.175
- RESPONSE MODIFICATION FACTOR, R: 6.5

ANALYSIS PROCEDURE : EQUIVALENT LATERAL FORCE

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D. FOUNDATION

1. GENERAL

- a. DESIGN SOIL PRESSURE : 1500 PSF
- b. SOILS REPORT BY : AGEC REPORT #: 1220210
- DATED : MAY 04, 2022
- c. SOIL PREPARATION UNDER FOUNDATIONS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE SOILS REPORT.
- d. TOP OF FOOTING ELEVATIONS 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 BEAR A MINIMUM OF 30 INCHES BELOW LOWEST ADJACENT FINAL GRADE.
- e. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH
- UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS SHALL BE CENTERED BELOW COLUMNS. g. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.). WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER, CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL "FORMS" PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDE.
- E. CONCRETE

1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE

- **REQUIREMENTS LISTED BELOW :** a. FOOTINGS, GRADE BEAMS, FOUNDATION WALLS :
 - . WHERE THE TOP OF THE ELEMENT IS EXPOSED OR IS LOCATED WITHIN 30" OF THE LOWEST ADJACENT GRADE (EXPOSURE CATEGORY F2):
 - a. 28 DAY COMPRESSIVE STRENGTH : 4500 PSI 0.45
 - b. MAXIMUM W/C RATIO : c. MAXIMUM AGGREGATE SIZE
 - d. AIR CONTENT SEE SCHEDULE BELOW
- 2. WHERE THE TOP OF THE ELEMENT IS NOT EXPOSED OR IS NOT LOCATED WITHIN 30" OF THE LOWEST ADJACENT GRADE (EXPOSURE CATEGORY F0) :
- a. 28 DAY COMPRESSIVE STRENGTH : 3000 PSI
- b. INTERIOR SLABS ON GRADE (EXPOSURE CATEGORY F0) . 28 DAY COMPRESSIVE STRENGTH : 3000 PSI
- c. EXTERIOR SLABS (DOCKS, ETC.) (EXPOSURE CATEGORY F2) :
- 1. 28 DAY COMPRESSIVE STRENGTH : 4500 PSI . MAXIMUM W/C RATIO
- MAXIMUM AGGREGATE SIZE :
- MINIMUM AIR CONTENT : SEE SCHEDULE BELOW d. TOTAL AIR CONTENT FOR CONCRETE EXPOSED TO CYCLES OF FREEZING AND THAWING SHALL BE DETERMINED IN ACCORDANCE WITH THIS SCHEDULE. TOLERANCE ON AIR CONTENT AS DELIVERED SHALL BE +/- 1.5 PERCENT.

0.45

NOMINAL MAXIMUM	TARGET AIR C	ONTENT, PERCENT
AGGREGATE SIZE, IN.	F1	F2 AND F3
3/8	6	7.5
1/2	5.5	7
3/4	5	6
1	4.5	6
1-1/2	4.5	5.5
2	4	5
3	35	45

- 2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602. 3. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE PLACEMEN1
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC. 5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:

	TOP &		
THICKNESS	BOTTOM BARS	VERTICAL	HORIZONTAL
6"	(1) #5	#4 AT 18"O.C.	#4 AT 16"O.C.
8"	(2) #5	#4 AT 18"O.C.	#4 AT 12"O.C.
10"	(2) #5	#4 AT 12"O.C.	#5 AT 12"O.C.
12"	(2) #5	#4 AT 18"O.C. EA FACE	#4 AT 16"O.C. E

- EA FACE 6. UNLESS NOTED OTHERWISE, CONCRETE SLABS ON EARTH SHALL BE REINFORCED AS FOLLOWS: 4" THICK - #3 AT 18"O.C. EACH WAY
 - 6" THICK #4 AT 18"O.C. EACH WAY 8" THICK - #4 AT 12"O.C. EACH WAY
- REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36"O.C. MAXIMUM SPACING.
- 7 UNLESS NOTED OTHERWISE, FOR NON-DETAILED OPENINGS IN CONCRETE WALLS LARGER THAN 12" AND SMALLER THAN 24" IN ANY DIRECTION ADD (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY SIDE, NOTIFY STRUCTURAL ENGINEER FOR FURTHER DIRECTION. OPENINGS SHALL HAVE A MINIMUM OF 12" OF CONCRETE ABOVE THE OPENING, TYP.
- 8. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION JOINTS FOR SLABS ON GRADE.

F. ANCHOR BOLTS/EMBEDDED BOLTS

- 1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISC SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING
- a. AT BRACED FRAMES & MOMENT RESISTING FRAMES ASTM F1554 GRADE 105 HEADED
- BOLTS.(ASTM A449 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.) b. AT WOOD STUD WALLS - ASTM A-307 GRADE HEADED BOLTS. ANCHOR BOLTS IN TREATED LUMBER SHALL BE GALVANIZED OR STAINLESS STEEL. SEE TIMBER NOTES FOR MORE INFORMATION.
- AT ALL OTHER ANCHOR BOLTS (UNLESS NOTED OTHERWISE) ASTM F1554 GRADE 36 HEADED BOLTS. (ASTM A36 THREADED ROD MAY BE USED WITH DOUBLE NUT AND WASHER.) EMBEDDED BOLTS IN MASONRY SHALL BE (UNLESS NOTED OTHERWISE) ASTM A-307 GRADE HEADED
- BOLTS. 3. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC. 4. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO
- PLACING CONCRETE AND/OR GROUT. IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.
- WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

G. ADHESIVE/MECHANICAL ANCHORS

- WITHOUT WRITTEN APPROVAL OF THE ENGINEER, CONTRACTOR SHALL NOT SUBSTITUTE POST-
- 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 (MPII)
- REACHED DESIGN STRENGTH.
- THESE DOCUMENTS. 8. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL
- SATURATED, OR WATER-FILLED HOLES.
- CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE. 10. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT
- SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.
- 11. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE: a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200-A (ESR-3187). b. SIMPSON SET-3G (ESR-4057), OR AT-XP (ER-0263).
- c. DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER). 12. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE a. HILTI KWIK BOLT-TZ2 (ESR-4266).
- b. SIMPSON STRONG-BOLT 2 (ESR-3037). 13. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE: a. SIMPSON TITEN HD (ESR-2713).
- b. DEWALT SCREWBOLT+ (ESR-3889). HILTI KWIK HUS-EZ (ESR-3027).
- 14. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF RECORD OR THE SPECIAL INSPECTOR.
- 15. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE
- ENGINEER WILL DETERMINE A NEW LOCATION. 16. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

H. REINFORCING STEEL

- 1. REINFORCING BAR STRENGTH REQUIREMENTS: SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION.
- HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1044.
- 4. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A970. OBSTRUCTIONS OR INTERRUPTIONS OF
- BEARING FACE OF THE HEAD. 5. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING
- DETAILED OTHERWISE OR APPROVED BY THE ENGINEER. 6. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
- a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" b. EXPOSED TO EARTH OR WEATHER : 1. #6 & LARGER 2"
- 2. #5 & SMALLER1-1/2"
- c. NOT EXPOSED TO WEATHER OR EARTH : SLABS, WALLS, JOISTS, #11 & SMALLER 3/4" BEAMS, COLUMNS: MAIN REINFORCING OR TIES 1-1/2"
- d. SLAB ON GRADE : 1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE.
- 8. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT
- OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS.
- 10. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING THAN 20" INTO FOOTING. FOR MASONRY CONSTRUCTION SEE STRUCTURAL NOTE P.6.A.
- 11. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING. 12. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED
- ON CONCRETE DOBIES. 13. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL
- CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
- BE IN CONTACT WITH REINFORCING STEEL.

STRUCTURAL NOTES CONTINUED ON NEXT PAGE



NO.	DATE	DESCRIPTION
04	03.31.23	PERMIT REVIEW COMMENTS

CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

INSTALLED ANCHORS WHERE CAST-IN-PLACE ANCHORS ARE SPECIFIED IN THE DRAWINGS.

5. INSTALLERS SHALL BE, AT A MINIMUM, TRAINED FOR THE SPECIFIC APPLICATION INSTALLATION TECHNIQUE FOR THE SPECIFIC PRODUCT BY THE PRODUCT MANUFACTURERS FIELD EMPLOYEE OR SHALL POSSESS A TRAINING CARD OBTAINED BY THE MANUFACTURERS ONLINE TRAINING PROGRAM. 6. 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

7. ADHESIVE ANCHORS SHALL CONSIST OF REINFORCING BAR OR THREADED RODS AS INDICATED IN

BE DRY AND FREE OF WATER FOR 14 DAYS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN DAMP, WATER-

9. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE

CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN EQUIVALENT IN ACCORDANCE WITH ACI 318-11 D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE

SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION

ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 2 INCHES, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT OR AN APPROVED ANCHORING ADHESIVE. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE

a. ALL REINFORCING BARS EXCEPT AS INDICATED IN NOTE b, SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS

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. THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE

CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY

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

POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE. 9. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED

DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK, AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE

TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED

SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-14. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN

14. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT

Structural Sheet Index SHEET NUMBER SHEET NAME S0.01 STRUCTURAL NOTES S0.02 STRUCTURAL NOTES S0.03 SCHEDULES S0.04 SCHEDULES S0.05 SCHEDULES S1.10 FOOTING AND FOUNDATION PLAN SOIL IMPROVEMENT PLAN S1.11 S1.20 MEZZANINE FRAMING PLAN S1.30 ROOF FRAMING PLAN S2.01 TYPICAL DETAILS TYPICAL DETAILS S2.02 S2.10 FOUNDATION DETAILS FLOOR & ROOF FRAMING DETAILS S2.20 FLOOR & ROOF FRAMING DETAILS S2.21 S2.22 FLOOR & ROOF FRAMING DETAILS S3.01 TRUSS PROFILES S4.01 SCHEMATIC REFERENCE

STRUCTURAL NOTES

in all 1

STUDIO 333 ARCHITECTS

333 24TH STREET OGDEN, UT 84401 801.394.3033

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WEST FIELD SR SEMINARY 4383 W 2200 S, OGDEN, UT

STRUCTURAL NOTES CONTINUED

O. TIMBER

0	. TIN	IBE	R				
	1.	WC	DOD GRADES	(UNLESS NOTE	ED OTHERWIS	SE)	
		a.	ALL FRAMINO	Ġ LUMBER SHA	LL BE DOUG	LAS FIR/LARG	H CLEAR
				AGENCY AND S			
		b.		L MEMBERS: F G IN CONTACT			
		D.	PRESSURE 1	REATED OR T	IMBERSTRAN		
			GRADES TO	TYPICAL FRAM	IING MEMBEF	RS.	
		C.		ED OTHERWIS			
			LVL: 2,000	ULUS OF ELAS		LEXURAL STR	ESS RAT
			PSL: 2,000	.000 PSI	2,	900 PSI	
			LSL: 1,500	,000 PSI	2, 2, 2,	250 PSI	
		d.		" JOISTS AND I	BRIDGING SH	ALL BE FURNI	SHED BY
	2	011	APPROVED E				
	2.			LL BE APA RA ⁻ W UNLESS NO			KE I, EXTE
		70	LOCATION	THICKN	ESS P		
			WALLS :	THICKN 7/16" 23/32"	24	4/0	
			FLOORS :	23/32"	48		
	3.			19/32" ES OF SHEATH		2/16 E ELOOR ANI	
	э.			RECTION AND			
	4.			R SHEATHING			
	5.	CC		FASTENERS, A			
		a.		HRU WOOD SH			HALL HAV
		b.		HEX NUT AND			
		υ.		ROOF SHEATH			
			FOLLOWS:				
				RY NAILING "B			
				OTHERWISE IN DGE NAILING "			
				IELD NAILING "			
		C.		ED OTHERWIS			
				SHALL BE USI	ED TO FASTE	N ALL PLYWO	OD SHEA
			BLOCKING A				
				dge nailing " Ield nailing "			
		d.	NAILS SHALL	BE GALVANIZ	ED OR STAIN	LESS STEEL A	TEXPOS
				BELOW FOR FA			
				NAILS SHALL			
		e.	COMMON	ED OTHERWIS	HEAD	LENGT	
			NAIL SIZE	DIAMETER			 II
			6d	0.113"	0.266"	2"	1
			8d	0.131"	0.281"	2-1/2"	1
			10d 12d	0.148" 0.148"	0.312" 0.312"	3" 3-1/4"	1 1
			16d	0.162"	0.344"	3-1/2"	1
		f.		US BEAD OF P		BOND TIMBER	
				ALL PLYWOOD		THING TO FLO	DOR JOIS
		a		IRERS' SPECIF G ANCHORS, P			
		g.		R APPROVED E			
				IRER'S PUBLIS			
		h.		ED OTHERWIS			
				/ITH 5/8" DIAME			
				MINIMUM OF (2 LESS THAN 4"			
		i.		DM PLATES AT			
			BETWEEN TH	HE SILL PLATE	AND NUT OF	THE ANCHOR	BOLT. TH
				TO BE DIAGON			
				ND SLOT LENG WEEN THE PL			
				F THE EDGE O			
		j.		CONNECTED			
		-	RETARDANT	-TREATED WO	OD (EXCEPT	FOR TIMBERS	TRAND L
				TMENTS) SHA			
			OTHER.	NLESS STEEL A	AND GALVANI	ZED STEEL SI	
		k.		ERE NOTED OT	HERWISE TH	HE NUMBER A	ND SIZE

- K. EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THAT SET FORTH IN IBC TABLE 2304.10.1. CONNECTIONS FOR MULTIPLE PIECES OF ENGINEERED LUMBER PIECES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- ALL METAL-PLATE-CONNECTED WOOD TRUSSED RAFTERS SHALL BE FABRICATED IN COMPLIANCE WITH THE RESEARCH COMMITTEE RECOMMENDATIONS OF THE ICC FOR THE CONNECTOR PLATES USED. SUBMIT DESIGN CALCULATIONS WITH ENGINEERS SEAL FOR REVIEW WITH SHOP DRAWINGS. PROVIDE CALCULATIONS AND DETAILS FOR ALL TRUSS TO TRUSS CONNECTIONS INCLUDING CONNECTION HARDWARE. ALL NECESSARY TRUSS BRIDGING AND CONNECTION DESIGN OF TRUSS BRIDGING SHALL BE PROVIDED BY THE TRUSS DESIGNER AND SHALL BE INCLUDED IN THE DESIGN CALCULATIONS FOR REVIEW.
- INSTALLATION OF ALL METAL-PLATE-CONNECTED WOOD TRUSSES SHALL COMPLY WITH THE FOLLOWING STANDARDS a. ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSSES".
- b. TPI HIB "COMMENTARY AND RECOMMENDATIONS FOR HANDLING INSTALLING & BRACING METAL-PLATE-CONNECTED WOOD TRUSSES". c. TPI DSB "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL-PLATE-
- CONNECTED WOOD TRUSSES" 8. UNLESS NOTED OTHERWISE, ALL ROOF SHEATHING AND WALL SHEATHING AT SHEAR WALLS SHALL
- HAVE SOLID BLOCKING AT ALL PANEL EDGES.
- 9. PROVIDE DOUBLE JOIST UNDER PARALLEL NONBEARING WALLS AND SOLID BLOCKING UNDER PERPENDICULAR NONBEARING WALLS.
- 10. AT ALL OVERBUILD LOCATIONS, ROOF SHEATHING SHALL BE COMPLETE BELOW OVERBUILDS PRIOR TO OVERBUILD CONSTRUCTION.
- 11. PROVIDE SOLID 2" (NOMINAL) FULL DEPTH BLOCKING AT ENDS AND SUPPORT LOCATIONS FOR ALL JOISTS AND RAFTERS. BLOCKING SHALL BE ATTACHED TO SUPPORT FRAMING WITH A MINIMUM OF (1) SIMPSON A35 FRAMING ANCHOR BETWEEN JOISTS UNLESS NOTED OTHERWISE.
- 12. UNLESS NOTED OTHERWISE, ALL BEARING WALLS SHALL BE 1.75X5.5 LVL STUDS SPACED AT 16" O.C. BLOCK ALL NON-SHEATHED BEARING WALLS AT 4'-0" O.C.
- 13. VERIFY THE STUD SPACING WITH THE ANCHOR BOLT LAY-OUT. WHERE STUDS INTERFERE WITH ANCHOR BOLTS, PROVIDE AN ADDITIONAL FULL-HEIGHT STUD TO ENSURE THAT THE FULL CROSS-SECTIONAL AREA OF THE STUD IS IN CONTACT WITH THE SILL PLATE.
- 14. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALLS AND SHEAR WALLS SHALL HAVE DOUBLE 2X TOP PLATES THAT ARE SPLICED TOGETHER WITH A MINIMUM OF 36" OF OVERLAP AND SHALL BE CONNECTED TOGETHER WITH A MINIMUM OF (22) 10d COMMON NAILS EACH SIDE OF THE SPLICE. OUTSIDE OF THESE SPLICE LOCATIONS, TOP PLATES SHALL BE NAILED TOGETHER WITH 10d NAILS AT
- 12" O.C. 15. UNLESS NOTED OTHERWISE, ALL HORIZONTAL FRAMING MEMBERS SHALL BE INSTALLED WITH THE
- NATURAL CROWN UP. 16. GLULAM MEMBERS
- a. GLULAM MEMBERS SHALL BE PROTECTED FROM EXTREMES IN TEMPERATURE AND HUMIDITY DURING TRANSPORTATION, STORAGE AND INSTALLATION WITH GOOD STORAGE AND INSTALLATION PRACTICES THAT MINIMIZE DIRECT EXPOSURE TO THE ELEMENTS.
- b. DURING AND AFTER INSTALLATION, GLULAM MEMBERS SHALL NOT BE EXPOSED TO RAPID MOVEMENT OF AIR OR TO CONCENTRATED HEATING AND COOLING SOURCES. c. GLULAM MEMBERS SHALL BE ALLOWED TO ADJUST SLOWLY TO THE AMBIENT TEMPERATURE AND
- HUMIDITY OF THE BUILDING BY AVOIDING RAPID LOWERING OF THE HUMIDITY AND/OR EXPOSURE TO HIGH TEMPERATURES. d. GLULAM MEMBERS SHALL BE PROTECTED AS INDICATED IN THESE NOTES UNLESS OTHERWISE
- NOTED BY THE GLULAM MANUFACTURER.



NO.	DATE	DESCRIPTION
02	02.10.23	Addendum 02

CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

REY MARKED WITH A STAMP BY WWPA IS & STRINGERS: NO. 2. DS: 2.0 E LVL.

R SLABS ON GRADE SHALL BE ER WITH EQUIVALENT STRESS LL BE FURNISHED BY TRUS-JOIST

FOLLOWING MINIMUM PROPERTIES : TING

Y TRUS-JOIST CORPORATION OR ERIOR GLUE AND PANEL INDEX RATING

R WALLS SHALL NOT BE SMALLER THAN RAMING SPACES, UNO.

JNLESS NOTED OTHERWISE. VE HARDENED WASHERS UNDER ASTM

LL BE USED TO FASTEN ALL PLYWOOD OISTS, LEDGERS OR BLOCKING AS

SHEAR WALLS, BLOCKING, AND AWINGS.

OD PANEL EDGES. TS IN FIELD OF PANEL. HEDULE ON SHEET S0.03, 10d COMMON AR WALL SHEATHING TO STUDS AND

TS IN FIELD OF PANEL. SED LOCATIONS OR IN TREATED WOOD CONTACT WITH TREATED WOOD). THE FACE OF THE SHEATHING.

LLOWING MINIMUM PROPERTIES : MIN. PENETRATION

- INTO SUPPORT MEMBER 1.25"
- 1.375" 1.50" 1.50"
- 1 62" ADHESIVE COMPOUND SHALL BE USED STS IN ACCORDANCE WITH

N BASES ETC. TO BE PROVIDED BY ACCORDANCE WITH

RWISE BE ANCHORED TO FOUNDATIONS OR VITH 8" MINIMUM EMBEDMENT. THERE HONE BOLT LOCATED NOT MORE THAN

" x 3" x 3" STEEL PLATE WASHERS THE HOLE IN THE PLATE WASHER IS TO 3/16" LARGER THAN THE BOLT DED A STANDARD CUT WASHER IS LATE WASHER SHALL EXTEND TO EATHED SIDE.

VATIVE-TREATED AND/OR FIRE-LSL TREATED LUMBER AND BORATE ED STEEL OR 304 OR 316 STAINLESS EVER BE USED IN CONTACT WITH EACH

P. TIEDOWN SYSTEM

- 1. THE CONTINUOUS ROD TIEDOWN SYSTEM FOR THIS PROJECT SHALL BE THE SIMPSON STRONG-TIE STRONG-ROD ANCHOR TIEDOWN SYSTEM (ATS) FOR SHEARWALL OVERTURNING RESTRAINT OR APPROVED EQUAL (SEE NOTE 2 BELOW).
- 2. THE MANUFACTURER OF THE CONTINUOUS ROD TIEDOWN SYSTEM SHALL SUBMIT STAMPED DRAWINGS AND CALCULATIONS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. THE SUBMITTAL SHALL INCLUDE THE FOLLOWING:
- a. EVALUATION REPORTS INDICATING COMPLIANCE WITH GOVERNING BUILDING CODES AND TEST DATA PERFORMED IN ACCORDANCE WITH ICC-ES ACCEPTANCE CRITERIA FOR SHRINKAGE COMPENSATING DEVICES (AC316).
- b. CERTIFICATION BY THE MANUFACTURER OF COMPLIANCE WITH THE CONTINUOUS ROD TIE-DOWN SYSTEM SPECIFICATIONS AND THE STRUCTURAL DRAWINGS. RUN START/TERMINATIONS/LOCATIONS.
- 3. THE CONTINUOUS ROD TIE-DOWN SYSTEM SHALL MEET THE DESIGN FORCES, TOTAL VERTICAL DISPLACEMENT LIMIT, AND SHRINKAGE REQUIREMENTS AS SET FORTH IN THE STRUCTURAL DRAWINGS. THE CONTINUOUS TIE-DOWN SYSTEM CALCULATIONS AND INSTALLATION DETAILS SHALL BE PROVIDED TO THE DESIGNER OR ENGINEER OF RECORD FOR REVIEW.
- 4. ALLOWABLE ROD CAPACITIES SHALL BE CALCULATED PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. a. AISC 360 - 16
- 5. BEARING PLATE, WOOD STUD AND FASTENER CAPACITIES SHALL BE CALCULATED PER THE NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION. a. NDS - 18
- SHRINKAGE COMPENSATING DEVICES SHALL BE PROVIDED AT EACH RESTRAINT LOCATION AND ACCOUNT FOR THE SHRINKAGE AMOUNT AT EACH STORY AS SET FORTH ON THE STRUCTURAL DRAWINGS.
- 7. THE TOTAL VERTICAL DISPLACEMENT BETWEEN RESTRAINT LOCATIONS, INCLUDING STEEL ROD ELONGATION AND SHRINKAGE COMPENSATING DEVICE DEFLECTION, SHALL BE LESS THAN 0.20 INCHES OR AS SET FORTH IN THE STRUCTURAL DRAWINGS, USING ALLOWABLE STRESS DESIGN (ASD). STEEL ROD ELONGATION SHALL BE COMPUTED AS THE PRODUCT PL/AE, WHERE P IS THE AXIAL LOAD (LB.), L IS THE INITIAL ROD LENGTH BETWEEN RESTRAINT LOCATIONS AT THE STORY UNDER CONSIDERATION (INCHES), E IS 29,000,000 (PSI) AND A IS THE NET TENSILE AREA OF THE ROD (IN.2). SHRINKAGE COMPENSATING DEVICES DEFLECTION SHALL INCLUDE $\Delta_R + \Delta_A (P_D/P_A)$.
- 8. THE CONTINUOUS ROD TIE-DOWN SYSTEM SHALL BE RESTRAINED BY A BEARING PLATE AND TAKE-UP DEVICE ASSEMBLY AT EACH STORY OF THE MULTI-STORY SHEARWALLS. NOTE: SKIPPING STORIES, WHERE BEARING PLATES ARE OMITTED AT INTERMEDIATE FLOORS THAT RESULT IN MULTIPLE STORIES BEING TIED TOGETHER, IS PROHIBITED.
- 9. DO NOT WELD PRODUCTS UNLESS THE CONTINUOUS ROD TIE-DOWN SYSTEM INSTALLATION DETAILS SPECIFICALLY IDENTIFY A PRODUCT AS ACCEPTABLE FOR WELDING AND IS DETAILED TO BE WELDED BY THE CONTINUOUS ROD TIE-DOWN SYSTEM PROVIDER. SOME STEELS HAVE POOR WELDABILITY AND A TENDENCY TO CRACK WHEN WELDED. RODS, NUTS, AND COUPLER NUTS SHALL NOT BE WELDED UNLESS THEY ARE OF A WELDABLE MATERIAL. WHERE THE STRUCTURAL DRAWINGS SPECIFY WELDING OF COUPLER NUTS, A WELDABLE COUPLE NUT MUST BE USED.
- 10. IN THE EVENT OF A DISCREPANCY BETWEEN THE STRUCTURAL DRAWINGS AND THE CONTINUOUS ROD TIE-DOWN SYSTEM INSTALLATION DETAILS, THE STRUCTURAL DRAWINGS SHALL GOVERN. 11. THE CONTINUOUS ROD TIE-DOWN SYSTEM RUN START/TERMINATIONS SHALL BE AS SET FORTH ON
- THE STRUCTURAL DRAWINGS. ALTERNATE RUN START/TERMINATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PRIOR TO PLACEMENT OF THE CONCRETE AND AT THE CONTRACTOR'S EXPENSE. SUBMITTAL SHALL INCLUDE CALCULATIONS IN COMPLIANCE WITH THE GOVERNING BUILDING CODE, INCLUDING CONCRETE ANCHORAGE IN ACCORDANCE WITH THE LATEST ACI 318 PROVISIONS FOR STRENGTH DESIGN AND CONVERSION TO ASD LOAD LEVELS.
- 12. A PRE-CONSTRUCTION MEETING IS RECOMMENDED WITH THE CONTINUOUS ROD TIE-DOWN SYSTEM SUPPLIER PRIOR TO PLACEMENT OF THE CONCRETE. THE PURPOSE OF THIS MEETING IS TO ASSIST IN VERIFYING QUANTITIES AND UNDERSTANDING THE INSTALLATION PROCESS.

Q. STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

- 1. STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS. PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OF THE OVERALL STRUCTURAL SYSTEM. DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS, AND DETAILS.
- 2. STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THEIR CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN.
- 3. ARW ENGINEERS WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS. 4. STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE
- BUILDING OFFICIAL. 5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO :
- a. METAL-PLATE-CONNECTED WOOD TRUSSES, BLOCKING, BRIDGING, BRIDGING CONNECTIONS, TRUSS HANGERS, AND RELATED COMPONENTS.
- b. TILT-UP CONCRETE WALL PANELS THAT ARE PART OF THE PRIMARY STRUCTURAL SYSTEM. c. DISPLACEMENT RAMMED AGGREGATE PIERS.

R. NON-STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

- 1. NON-STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS. NOT INCLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT CRITICAL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPART LOADS AND FORCES TO THE STRUCTURAL SYSTEM.
- 2. NON-STRUCTURAL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN. 3. ARW ENGINEERS WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN
- CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS. 4. IF THE STRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL
- ELEMENTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN. SUCH DOCUMENTATION SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN. 5. WHEN THE NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPART FORCES IN EXCESS OF LOADS THAT ARE INDICATED ON THE STRUCTURAL DRAWINGS, THE
- CONTRACTOR SHALL SUBMIT A DETAILED GRAPHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND LOCATION. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN. THE LETTER SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
- NON-STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS SHALL INCLUDE, BUT ARE NOT LIMITED TO : a. SEISMIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS
- WHERE REQUIRED BY THE MOST RECENT VERSION OF ASCE 7 AND THE PROJECT CONTRACT DOCUMENTS.

STRUCTURAL NOTES

									-	WO
	(NOTE 8)		NOMINAI	(NOTE 7)		CONNECT	ION NAILING		TYP. SILL	BOLT
EVEL	PLYWOOD SHEATHING (CDX U.N.O.)	(E.N.) (SEE NOTES 2 & 3)	BOTTOM PLATE SIZE	STUD SIZE (MIN.)	BOTTOM PL. (A) (SEE NOTE 4) (L)-LAG (ST)- STAGGER	NAILING TOP PL. TOGETHER B	BLKG. TO TOP PL. ©	TOP PL. SPLICE	DIA.	E 9) SPA.
ROUND ROOF	15/32"	10d @ 6"o.c.	2x	1.75x5.5 LVL	16d @ 4"o.c.	(32) 10d	A35 @ 24"o.c.	10d @ 6"o.c.	5/8" DIA.	24"o.c
									-	
ROUND ROOF	15/32"	10d @ 4"o.c.	2x	1.75x5.5 LVL	16d @ 4"o.c.	(32) 10d	A35 @ 24"o.c.	10d @ 6"o.c.	5/8" DIA.	24"o.c
									_	
ROOF	15/32"	10d @ 4"o.c.	2x	1.75x9.5 LVL	16d @ 4"o.c.	(32) 10d	A35 @ 24"o.c.	10d @ 6"o.c.	5/8" DIA.	24"o.c
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									_	
									-	
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									-	
									-	
	OUND ROOF	EVEL PLYWOOD SHEATHING (CDX U.N.O.) NOUND 15/32" COUND 15/32" NOOF 15/32"	EVEL Image: Constraint of the second sec	EVEL (NOTE 8) PLYWOOD SHEATHING (CDX U.N.O.) NAILING (E.N.) (SEE NOTES 2 & 3) NOMINAL BOTTOM PLATE SIZE OUND ROOF 15/32" 10d @ 6"o.c. 2x OUND ROOF 15/32" 10d @ 4"o.c. 2x OUND ROOF 15/32" 10d @ 4"o.c. 2x OUND ROOF 15/32" 10d @ 4"o.c. 2x	EVEL (NOTE 8) PLYWOOD SHEATHING (CDX U.N.O.) NAILING (E.N.) (SEE NOTES 2 & 3) NOMINAL BOTTOM PLATE SIZE NOM. STUD SIZE (MIN.) OUND ROOF 15/32" 10d @ 6"o.c. 2x 1.75x5.5 LVL OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL	EVEL Image: Constraint of the second sec	EVEL (NOTE 8) PLYWOOD SHEATHING (CDX U.N.O.) NAILING NAILING (E.N.) (SEE NOTES 2 & 3) NOMINAL BOTTOM PLATE SIZE NOM. STUD SIZE (MIN.) BOTTOM PL. (A) (SEE NOTE 4) (L)-LAG (ST)- STAGGER NAILING TOP PL. TOGETHER (B) OUND ROOF 15/32" 10d @ 6"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d	EVEL NOTES 3 PLYWOOD SHEATHING (CDX U.N.O.) NAILING (E.N.) (SEE NOTES 2 & 3) NOMINAL BOTTOM PLATE SIZE NOM. STUD SIZE (MIN.) BOTTOM PL. (A) (L)-LAG (ST)- STAGGER NAILING TOP PL. TOGETHER BLKG. TO TOP PL. C OUND ROOF 15/32" 10d @ 6"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c.	Image: Notice and performance of the pe	EVEL EDGE NAILING (DX U.N.O.) EDGE NAILING (E.N.) (SEE NOTES 2 & 3) NOMINAL BOTTOM PLATE SIZE (NOTE 7) NOM. STUD SIZE (MIN.) CONNECTION NAILING BOTTOM PL. (Å) (L)-LAG (ST)- STAGGER NAILING TO P PL. TOGETHER (B) BLKG. TO TOP PL. (C) TOP PL. SPLICE TOP PL. ANCHOR (NOT DIA. OUND ROOF 15/32" 10d @ 6"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. 10d @ 6"o.c. 5/8" DIA. OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. 10d @ 6"o.c. 5/8" DIA. OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. 10d @ 6"o.c. 5/8" DIA. OUND ROOF 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. 10d @ 6"o.c. 5/8" DIA. OUND 15/32" 10d @ 4"o.c. 2x 1.75x5.5 LVL 16d @ 4"o.c. (32) 10d A35 @ 24"o.c. 10d @ 6"o.c. 5/8" DIA.

NOTES: 1. ALL SHEATHING PANEL EDGES TO BE BLOCKED. USE 3x BLOCKING WHERE 3x STUDS ARE REQUIRED.

2. ALL NAILS TO BE COMMON OR GALVANIZED BOX. 3. FIELD NAILING TO BE SAME NAILS @ 12"o.c.

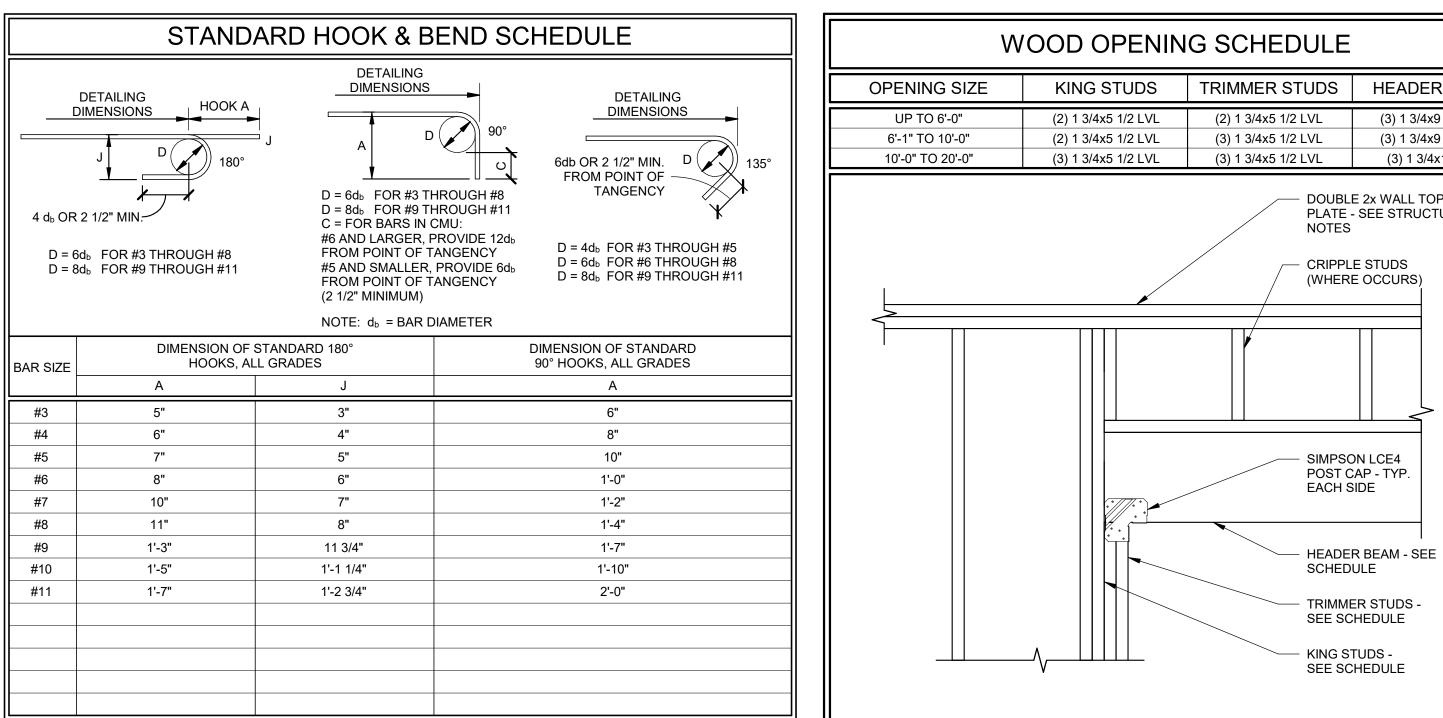
4. (A) CONNECTION IS FOR 2ND FLOOR AND ABOVE

AT SHEAR WALLS W/ SHEATHING ON BOTH SIDES, BOTH VERTICAL AND HORIZONTAL JOINTS ON OPPOSITE SIDES OF THE WALL SHALL BE STAGGERED. STAGGER E.N. AT DOUBLE TOP PLATES. 3x NOMINAL FRAMING MEMBERS TO OCCUR AT ABUTTING PANEL EDGES. 2x NOMINAL FRAMING MEMBERS MAY BE USED AT INTERIOR OF PANEL, UNLESS NOTED OTHERWISE IN FLOOR FRAMING NOTES. (2) 2x

NAILED TOGETHER W/ (2) 16d NAILS @ 16"o.c. OR 4x NOMINAL FRAMING MEMBERS OF THE SAME DEPTH AND LUMBER GRADE MAY BE USED IN LIEU OF 3x MEMBERS AT CONTRACTOR OPTION. SHEATHING SHALL BE STAMPED W/ APA STAMP. O.S.B. OF EQUIVALENT THICKNESS, GRADE, AND RATING MAY BE USED IN LIEU OF PLYWOOD.

9. ALL SILL PLATE ANCHOR BOLTS TO HAVE MINIMUM 8" EMBEDMENT INTO CONCRETE. SEE DETAIL 8/S2.01 FOR HOLDOWN ANCHORAGE REQUIREMENTS. 10. SEE THIS SHEET FOR TYPICAL SHEAR TRANSFER DETAILS.

11. TOP PLATE SPLICE NAILING SHALL APPLY TO EACH SIDE OF THE SPLICE. THE LENGTH OF THE OVERLAP SHALL BE SUFFICIENT TO PREVENT SPLITTING (48" MIN.



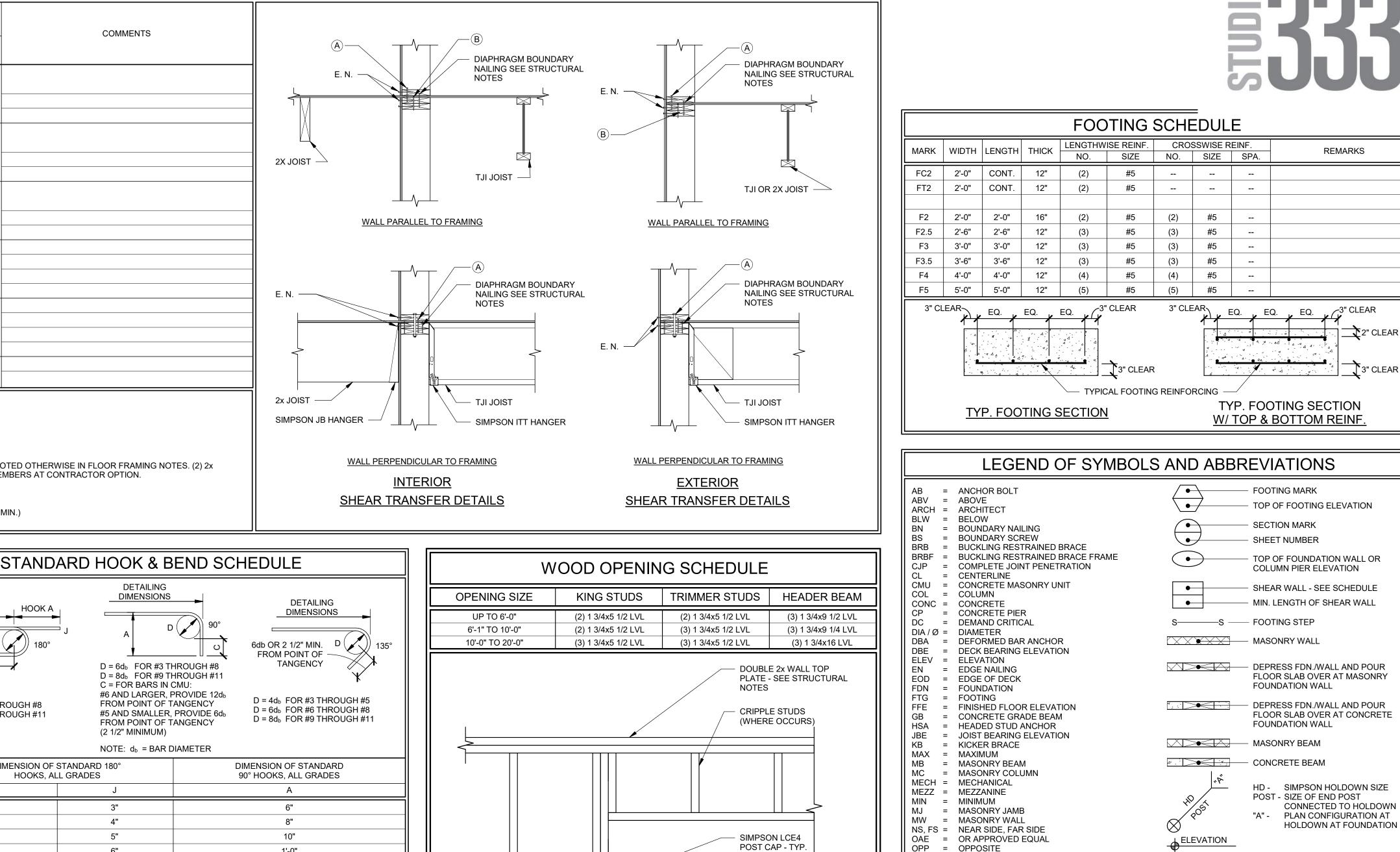
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CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154



FRAMING ANGLE SEE TYPICAL DETAIL ------C------ FRAMING CHANNEL SEE TYPICAL

_____L_____

DETAIL

ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.

> MOMENT RESISTING CONNECTIONS -SEE DETAIL

MOMENT RESISTING CANTILEVER **CONNECTIONS - SEE DETAIL** — KICKER BRACE



PAF = POWDER ACTUATED FASTENER

PL = PLATE

REINF = REINFORCING

SSH = STEEL STUD HEADER

TOB = TOP OF BEAM ELEVATION

TOC = TOP OF CONCRETE SLAB

TOG = TOP OF GIRDER ELEVATION

TOS = TOP OF STEEL ELEVATION

UNO = UNLESS NOTED OTHERWISE

SSJ = STEEL STUD JAMB

SSS = STEEL STUD SILL

SSW = STEEL STUD WALL

TOF = TOP OF FOOTING

TOM = TOP OF MASONRY

REQ'D = REQUIRED

SIM = SIMILAR

TYP = TYPICAL

INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	FABRICA QUALITY CO CONTINUOUS	NTROL	SPECIAL INS QUALITY ASS CONTINUOUS	SURA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	•			
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	•		•	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	•		•	
MATERIAL IDENTIFICATION (TYPE / GRADE)		٠		
WELDER IDENTIFICATION SYSTEM ¹		•		
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		٠		
¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM			O HAS WELDED	D A
JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOV	N-STRESS TYPE			
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)	CONTINUOUS	PERIODIC	CONTINUOUS	PER
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	PER
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 ¹				
	•		•	
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ²	•		•	
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		•		

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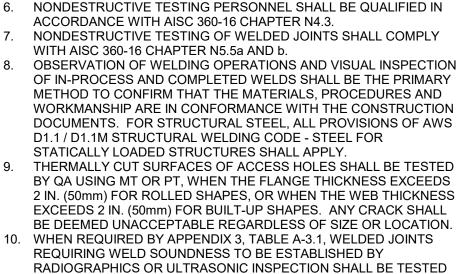
STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2018 IBC SECTION 1705 2 1

	ESTABLISHED PER 2018 IBC SECTION 1705.2.1						
	NOTES	INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	CONTINUOUS	PERIODIC			
		MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		•			
		FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		•			
	PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		•			
2.	CONTINUOUS - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.	PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL		•			
5. L	QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		•			
· •	REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT)	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	•				
	SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N6.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		•			
5.	QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-16 CHAPTER N4.	INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)	CONTINUOUS	PERIODIC			
6. 7.	NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-16 CHAPTER N4.3. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY	FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		•			
8.	WITH AISC 360-16 CHAPTER N5.5a AND b. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		•			
	METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		•			
).	DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY. THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		•			
	BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS	INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)	CONTINUOUS	PERIODIC			
	EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	•				
0.	WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS						

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.
- . 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.
- 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.
- BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION. 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. 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.
- 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.



BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS PROHIBITED. REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF UT

IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EOR AND THE AHJ PER AISC 360-16 CHAPTER N5.5e.

12. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECT RATE, THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO IMPLEMENTING SUCH AN INCREASE. WHEN 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 CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EACH 12 IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm), EACH 6 IN. (150mm) OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ON WELD.

13. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN 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. DEMAND CRITICAL WELDS SHALL MEET THE PROVISION FOUND IN AISC 341-16 AND WELDING METHODS, PROCEDURES AND QUALITY CONTROL SHALL COMPLY WITH AWS D1.1 AND THE FOLLOWING: a. ARC STRIKES, GOUGES AND OTHER IMPERFECTIONS WITHIN OR ADJACENT TO THE JOINT, SHALL BE REPAIRED OR

- REMOVED b. PREHEAT AND INTER-PASS REQUIREMENTS AS OUTLINED IN SECTION 3.5.
- UNREPAIRED 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 UNDER AWS A5 CLASSIFICATION TEST METHODS, AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT USING TEST PROCEDURES PRESCRIBED IN APPENDIX X OF AISC 358. ACCEPTABLE ELECTRODES INCLUDE E70TG-K2, E71 T-1.



NO.	DATE	DESCRIPTION
04	03.31.23	PERMIT REVIEW COMMENTS

CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

an eil NOTES 1 PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 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. 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.

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. 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 CONTINUOUS | PERIODIC ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER. 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.

CONTINUOUS PERIODIC

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CONTINUOUS | PERIODIC

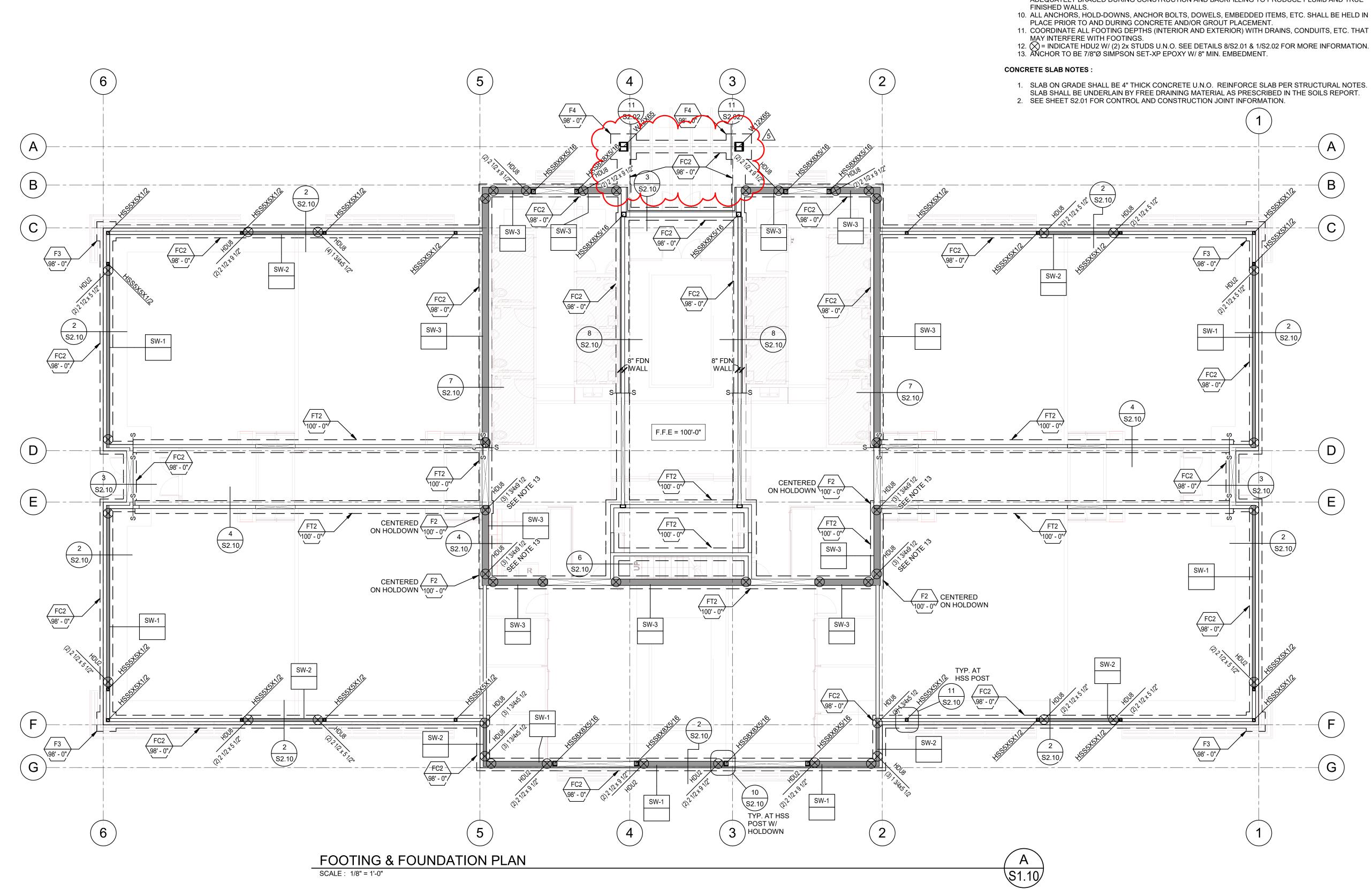
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THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS

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

SCHEDULES

S0.04



1044CUM Matthew C. McBride No. 353893

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FOOTING & FOUNDATION NOTES :

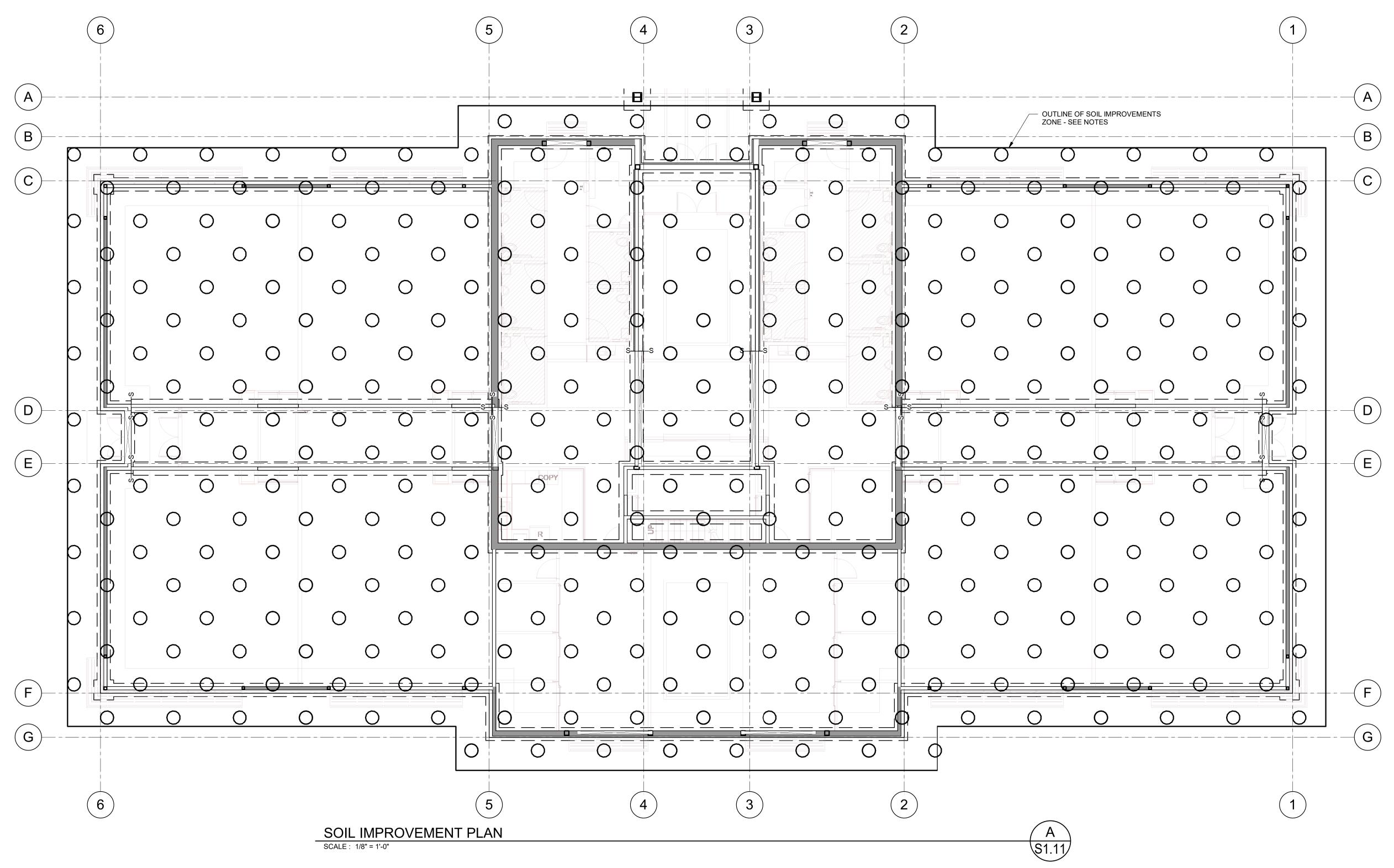
- 1. SEE SHEET S0.01 & S0.02 FOR GENERAL STRUCTURAL NOTES. 2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSU SHOWN IN THE STRUCTURAL NOTES. 3. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
- 4. SOLID GROUT ALL MASONRY COURSES BELOW FINISHED FLOOR OR EXTERIOR GRADE (WHICHEVER HIGHER). 5. SEE SHEET S0.03 FOR FOOTING SCHEDULE.
- 6. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O. . SEE SHEET S2.01 & S2.10 FOR TYPICAL FOOTING AND FOUNDATION DETAILS. 8. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTE
- IN GENERAL STRUCTURAL NOTES. 9. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTC IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE
- 10. ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN 11. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT

SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.

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FOOTING AND FOUNDATION PLAN

S1.10





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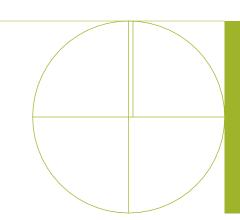
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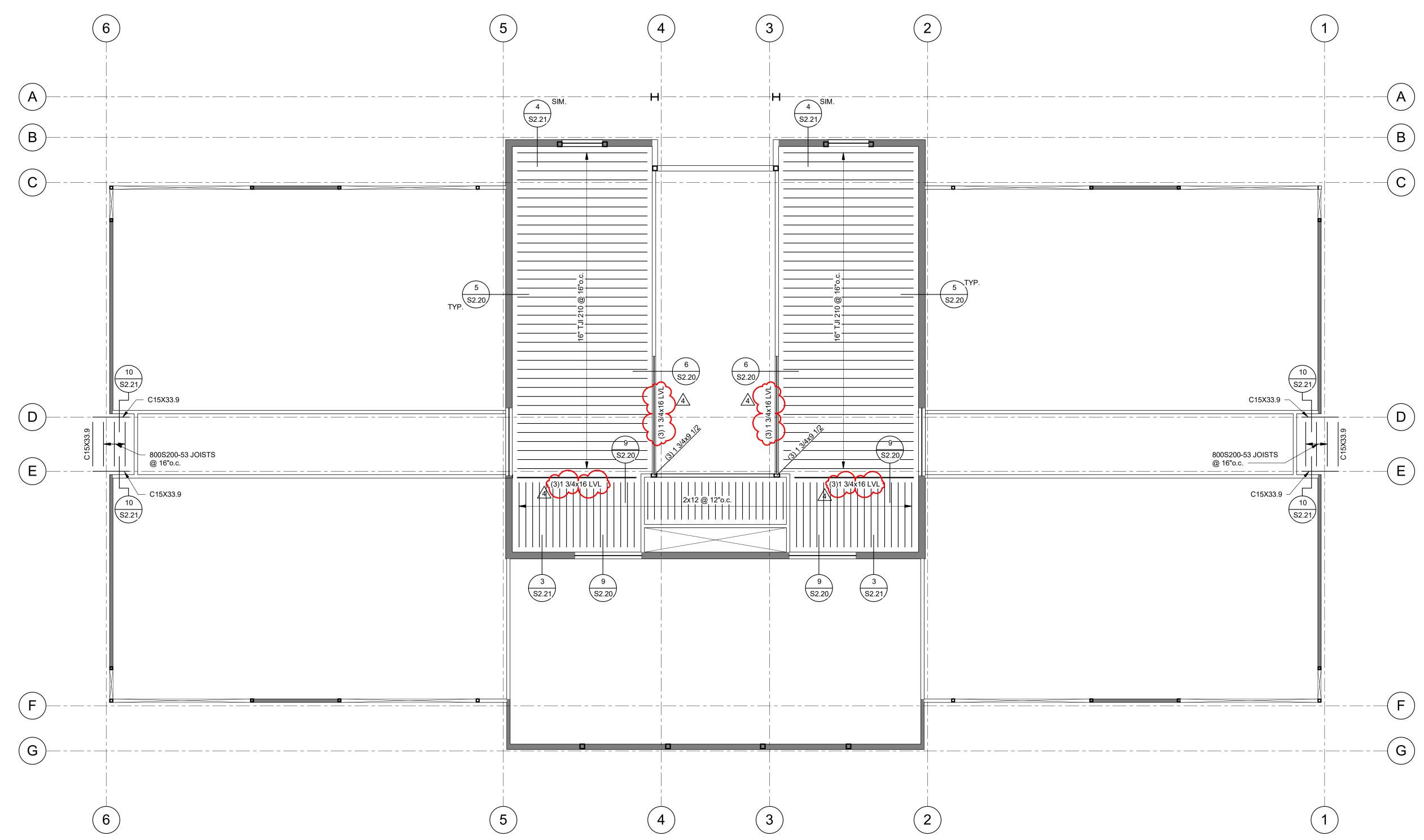
SOIL IMPROVEMENT NOTES :

GEOTECHNICAL REPORT.

1. SEE SHEET S0.01 & S0.02 FOR GENERAL STRUCTURAL NOTES. 2. SOIL IMPROVEMENT SHALL BE PROVIDED USING RAMMED AGGREGATE PIERS AS OUTLINED IN THE GEOTECHNICAL REPORT AND THE FOLLOWING: A. DESIGN OF THE SOIL IMPROVEMENT SYSTEM SHALL BE A DEFFERED SUBMITTAL LAYOUT SHOWN IS SCHEMATIC AND PROVIDED AS REFERENCE ONLY. B. THE SOIL IMPROVEMENT SYSTEM SHALL FOLLOW THE REQUIREMENTS OF THE GEOTECHNICAL REPORT OT IMPROVE THE PERFORMANCE OF THE SITE FOR LIQUEFACTION. C. A MINIMUM OF 1500 PSF SHALL BE ACHIEVED THROUGOUT THE ENTIRE SOIL IMPROVEMENT ZONE. D. THE SOIL IMPROVEDMENT ZONE SHALL EXTEND A MINIMUM OF 5'-0" OUTSIDE THE BUILDING FOOTPRINT. E. THE DEPTH OF THE SOIL IMPROVEMENT SYSTEM SHALL BE A MINIMUM OF 15'-0" TO 20'-0" TO EXTEND PIERS BELOW SOIL THAT IS SUSCEPTIBLE TO LIQUEFACTION AS NOTED IN THE







MEZZANINE FRAMING PLAN SCALE : 1/8" = 1'-0"

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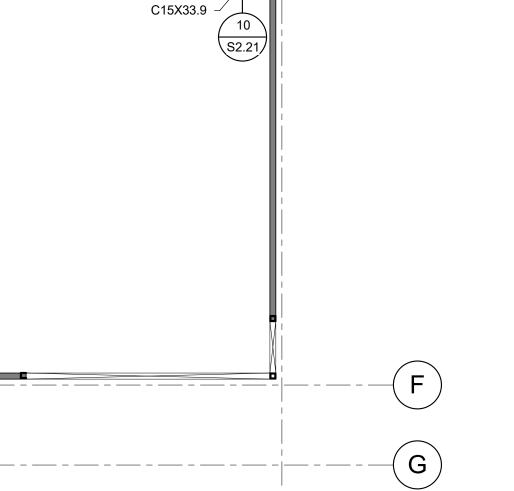
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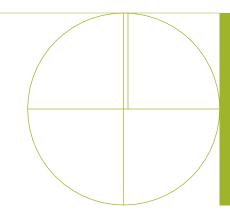
NO.	DATE	DESCRIPTION
04	03.31.23	PERMIT REVIEW COMMENTS
03	02.13.23	Addendum 03

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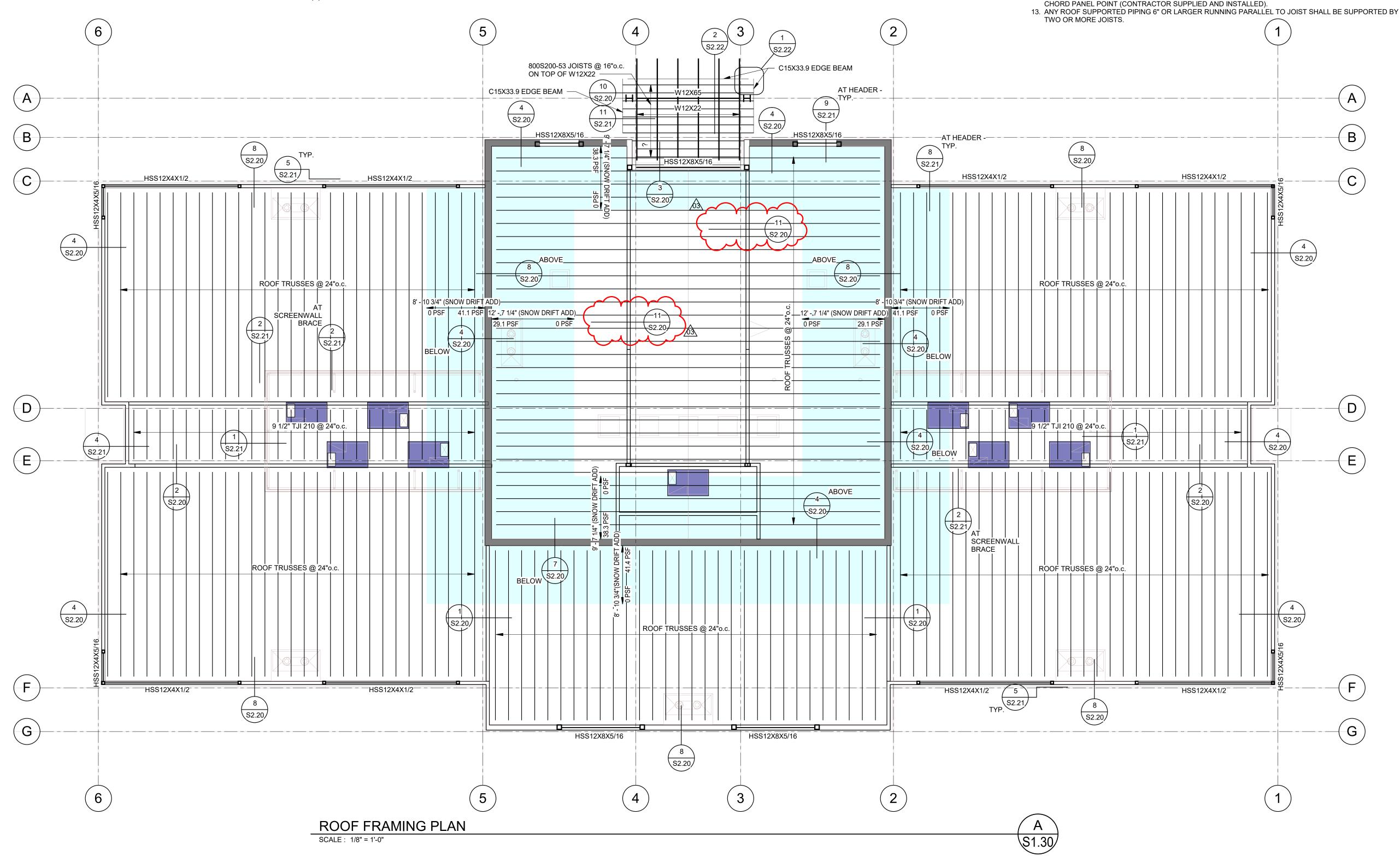




PRE-M	ANUFACTURED TRUSS NOTES :
1.	PRE-MANUFACTURED TRUSSES SH LOAD CONFIGURATIONS AS REQUIP NOTES :
	THE FOLLOWING CRITERIA SHA

=	PER GE
=	PER GE
=	15 PSF
	10 PSF
=	PER GE
=	AS DET
	= =

- 2. ALL TRUSSES SHALL BE DESIGNED FOR A 150 POUND POINT LOAD APPLIED AT ANY LOCATION ALONG THE BOTTOM CHORD. DESIGN ALL TRUSSES FOR WIND UPLIFT PER THE GOVERNING CODE WITH A 8 PSF DEAD LOAD.
- 3. ALL TRUSS TO TRUSS CONNECTIONS PROVIDED BY TRUSS MANUFACTURER. 4. TRUSS MANUFACTURER SHALL COORDINATE AND INCLUDE ALL ADD LOADS AS INDICATED ON THE FRAMING PLAN(S).





WEST FIELD SR SEMINARY 4383 W 2200 S, OGDEN, UT HALL BE DESIGNED PER ALL APPLICABLE LOAD COMBINATIONS AND RED BY THE GOVERNING CODE AND THE GENERAL STRUCTURAL

- ALL BE USED IN DESIGN.
- SENERAL STRUCTURAL NOTES
- SENERAL STRUCTURAL NOTES TOP CHORD
- F BOTTOM CHORD ENERAL STRUCTURAL NOTES
- TERMINED BY THE TRUSS MANUFACTURER. CONSIDER BALANCED, UNBALANCED AND DRIFT LOCATIONS
- 5. COORDINATE DUCT RUNS AND TRUSS WEB CONFIGURATIONS WITH MECHANICAL & ARCH. DRAWINGS. DO NOT FIELD MODIFY TRUSSES TO ACCOMMODATE DUCTING AND OTHER MISCELLANEOUS EQUIPMENT WITHOUT WRITTEN DIRECTION FROM THE TRUSS MANUFACTURER OR STRUCTURAL ENGINEER.
- 6. COORDINATE ALLOWABLE TRUSS DEFLECTIONS WITH ARCHITECT FOR DETAILING OF NON-BEARING STUD WALLS BELOW.
- 7. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AS REQUIRED BY THE DEFERRED SUBMITTAL SECTION OF THE GENERAL STRUCTURAL NOTES. 8. WHERE INDICATED, BLOCK PANEL EDGES OF ROOF SHEATHING WITH FLAT 2X BLOCKING.



NO.	DATE	DESCRIPTION
04	03.31.23	PERMIT REVIEW COMMENTS
03	02.13.23	Addendum 03

CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

ROOF FRAMING NOTES :

1. SEE SHEET S0.01 & S0.02 FOR GENERAL STRUCTURAL NOTES. 2. GENERAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT WEIGHTS, DIMENSIONS, AND LOCATIONS W/ MECHANICAL AND REFRIGERATION CONTRACTORS PRIOR TO ORDERING/FABRICATIN

JOISTS. 3. JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DESIGNED FOR ADDITIONAL LOADS

INDICATED.

4. WHERE JOIST AXIAL LOADS ARE SHOWN ON THE PLANS (XX.X(W)) OR (XX.X(E)), LOADS ARE ASD LEV LOADS 5. SNOW DRIFT LOADS INDICATED ON FRAMING PLANS SHALL BE APPLIED IN ADDITION TO UNIFORMLY

DISTRIBUTED LOADS INDICATED IN TRUSS NOTES. PROVIDE ADDED HORIZONTAL AND VERTICAL JOISTS LOADS WHERE INDICATED ON PLAN OR DETAIL TRUSSES SHALL BE DESIGNED FOR 15 PSF NET WIND UPLIFT.

8. SEE ROOF DECK SCHEDULE FOR REQUIRED DECK AND ATTACHMENTS. 9. CONTRACTOR SHALL ERECT AND MAINTAIN ADEQUATE TEMPORARY BRACING UNTIL ALL ROOF

FRAMING AND DECK ATTACHMENTS ARE COMPLETE. 10. CONCENTRATED LOADS FROM EQUIPMENT, PIPING, ETC., SHALL NOT BE HUNG FROM JOISTS EXCEPT AT PANEL POINTS AND AS APPROVED BY THE ENGINEER.

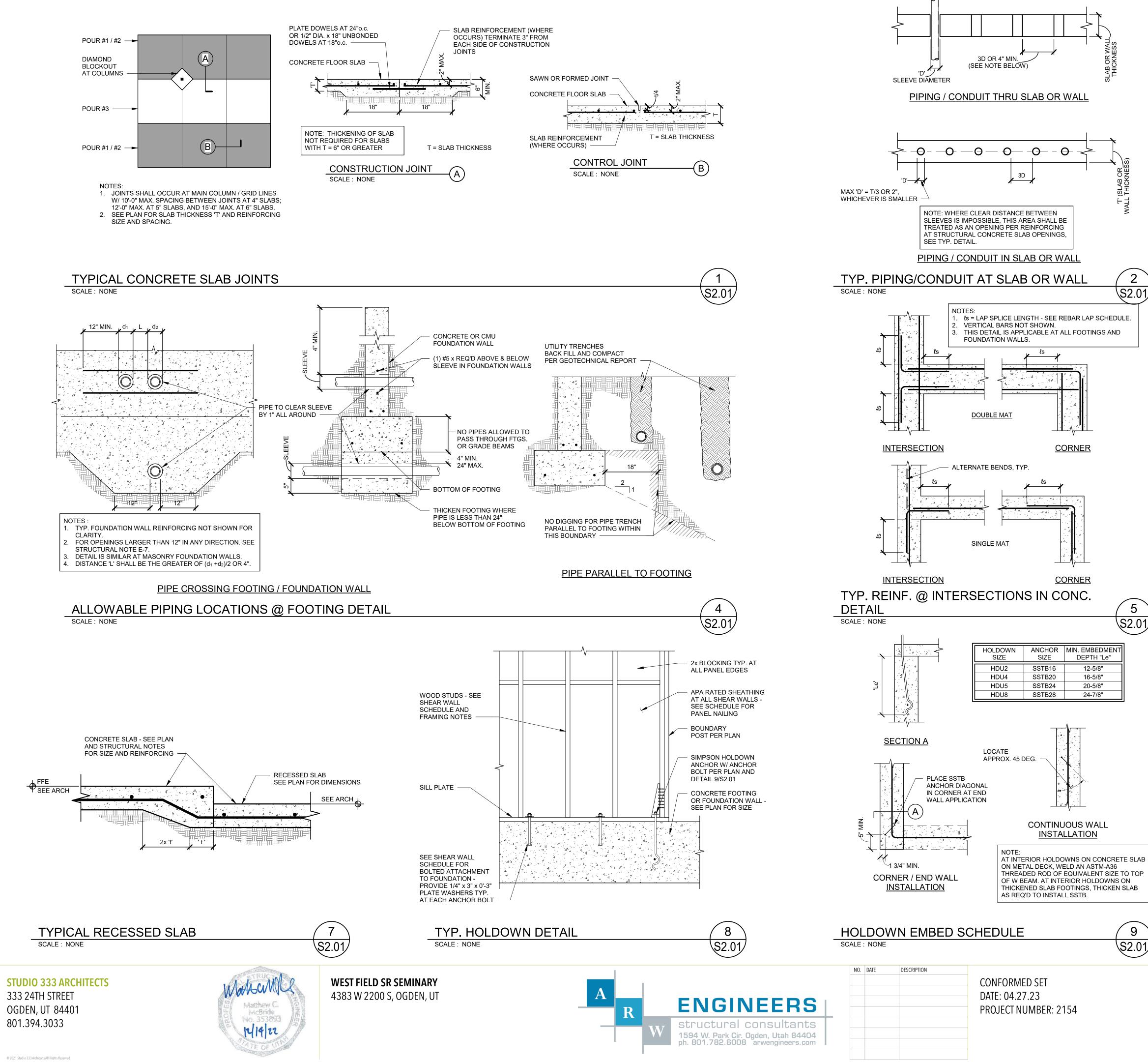
11. JOIST BRIDGING DESIGN AND LOCATION BY JOIST MANUFACTURER.

12. ANY CONCENTRATED LOAD ON JOIST CHORDS (INCLUDING FRAMING ANGLES) NOT LOCATED WITHIN 6" OF A PANEL POINT REQUIRE (2) L 2" X 2" X 1/4" FROM THE POINT LOAD TO THE NEAREST OPPOSITE CHORD PANEL POINT (CONTRACTOR SUPPLIED AND INSTALLED).



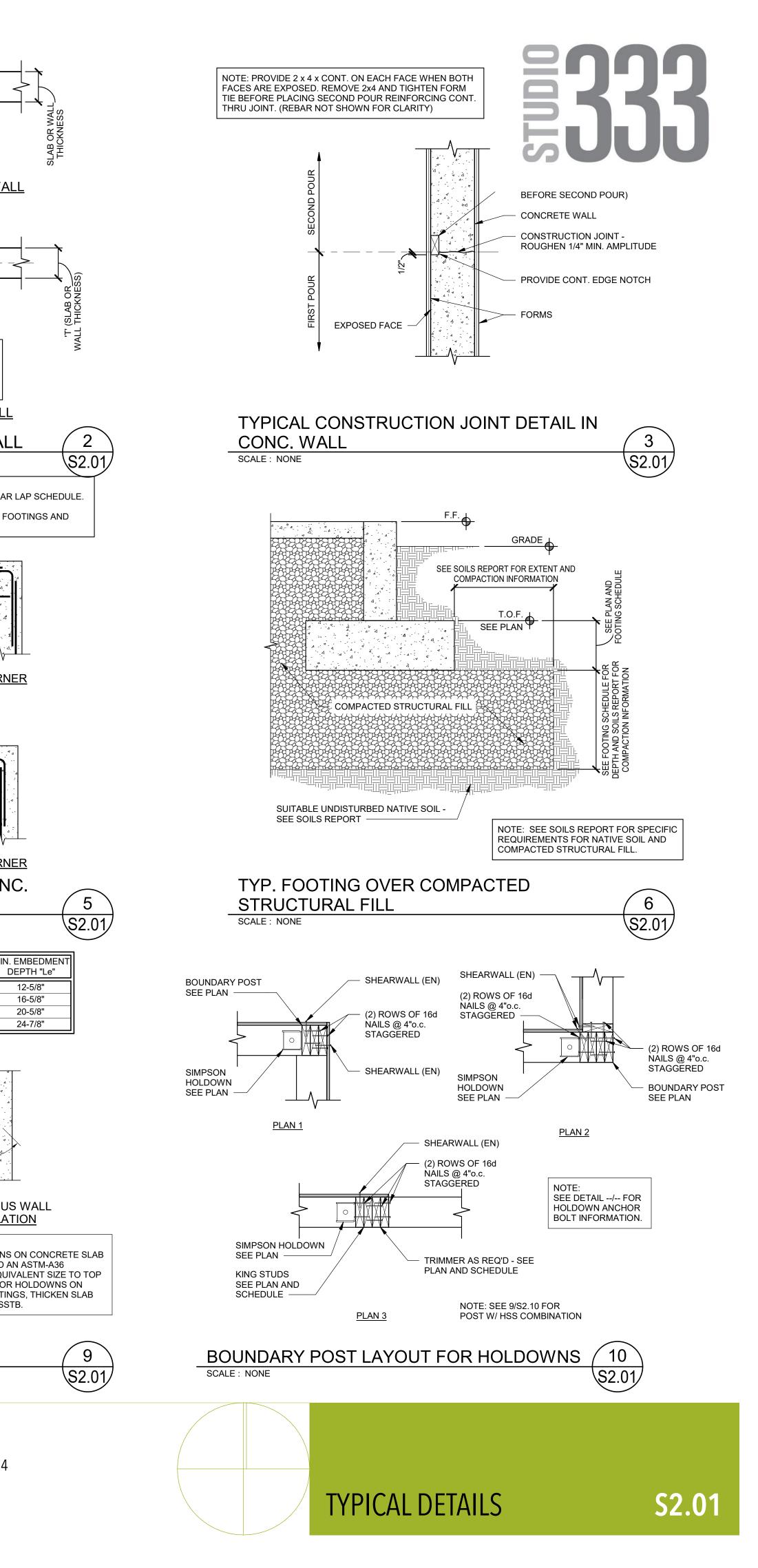
ROOF FRAMING PLAN

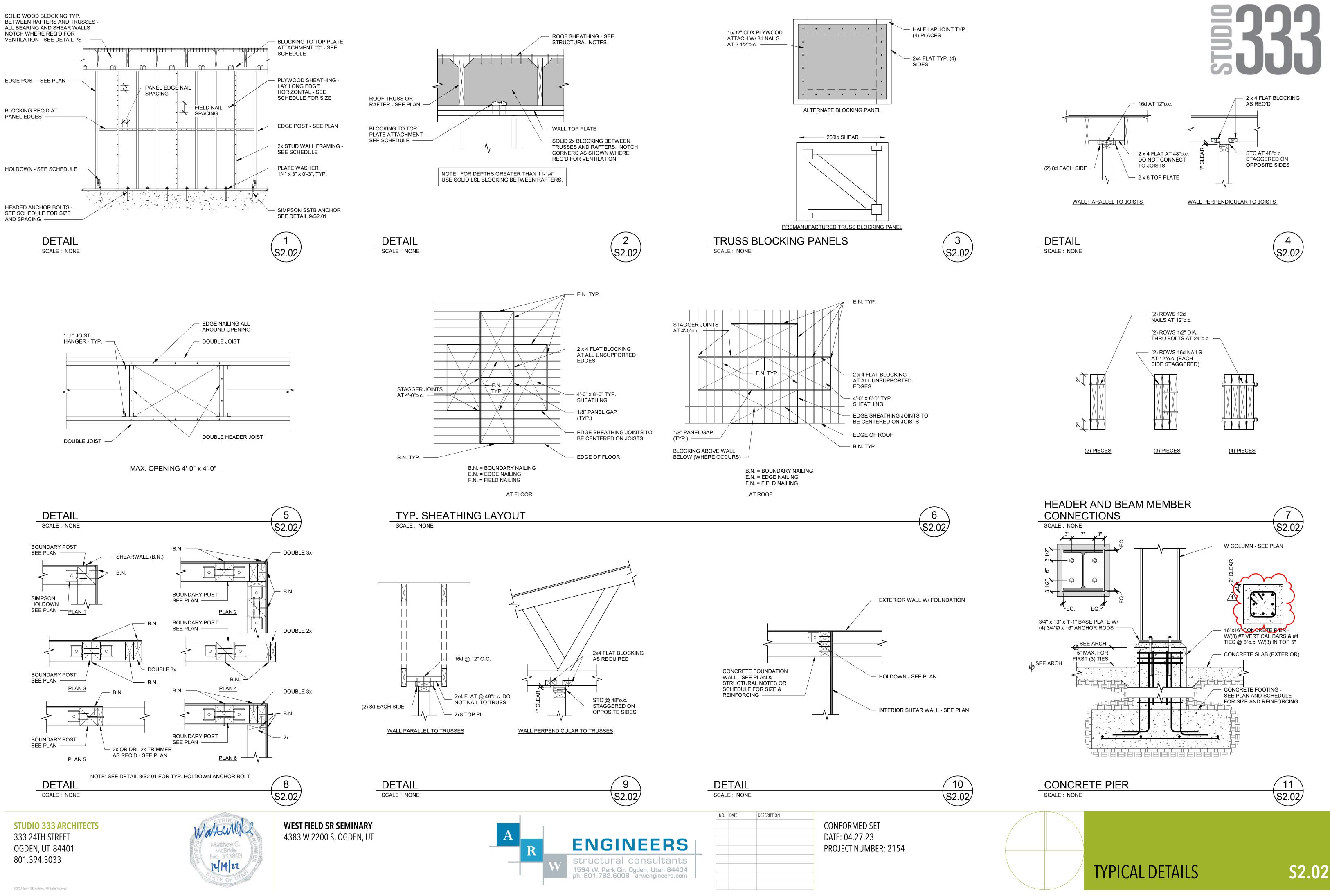
S1.30

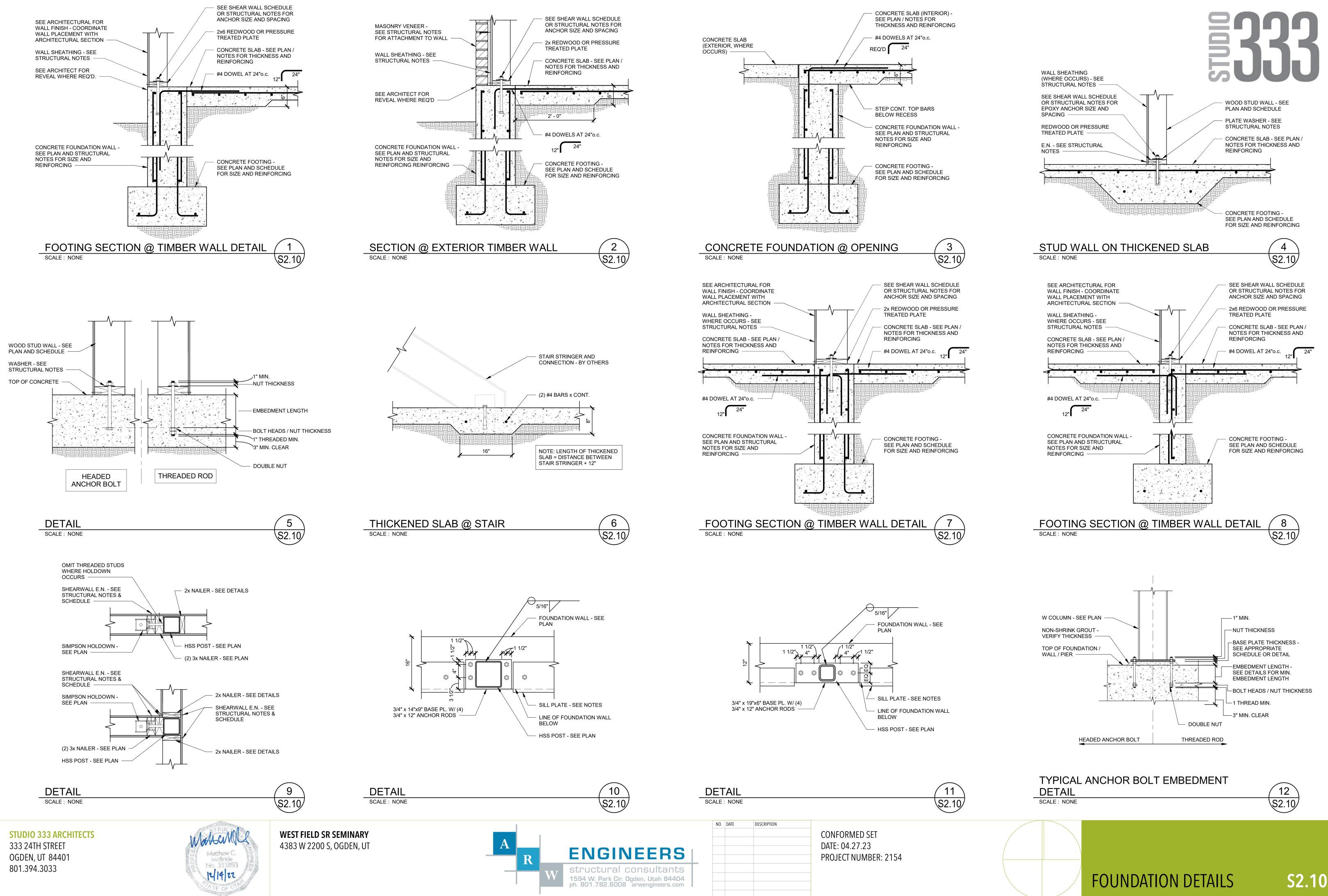


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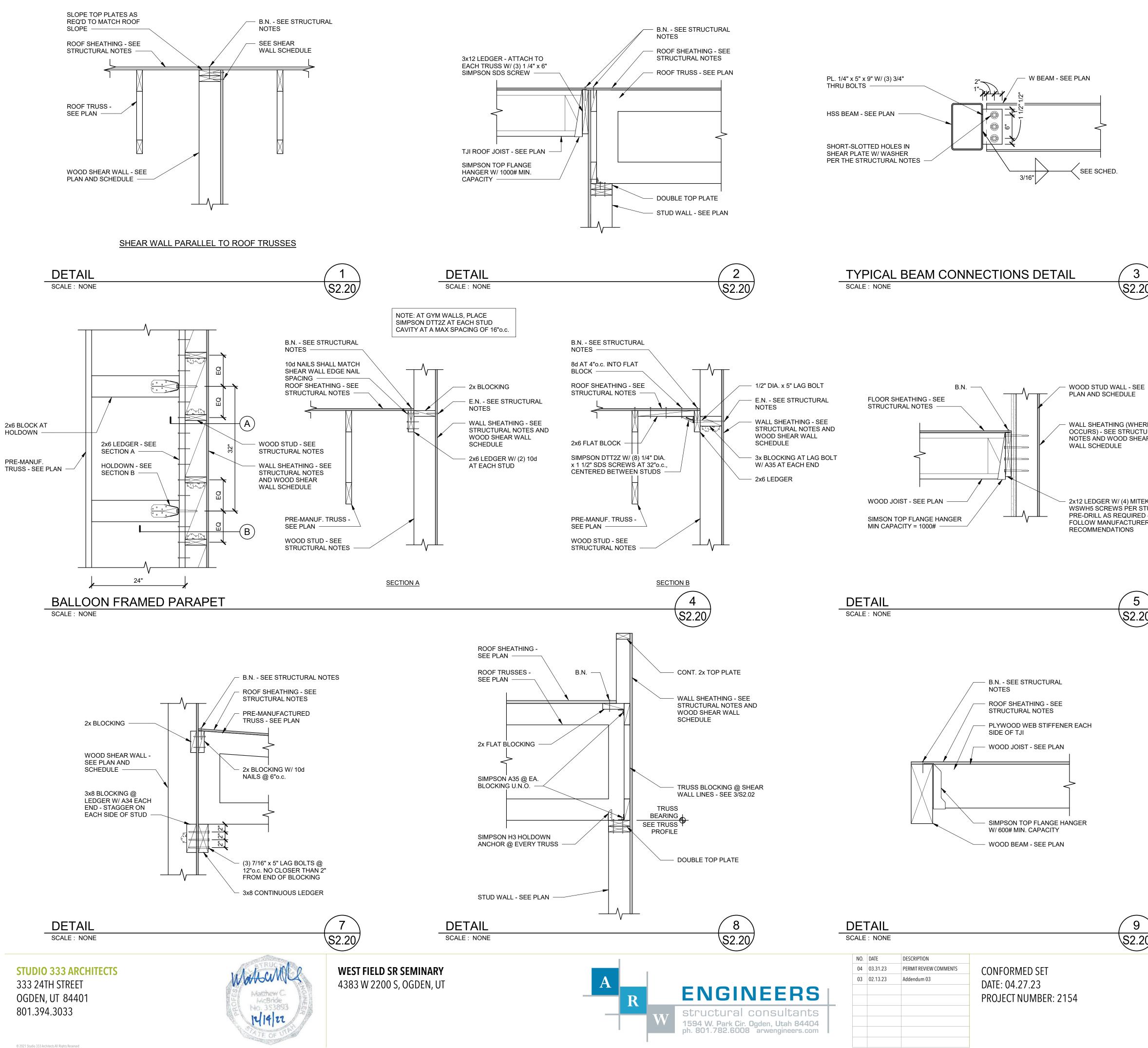


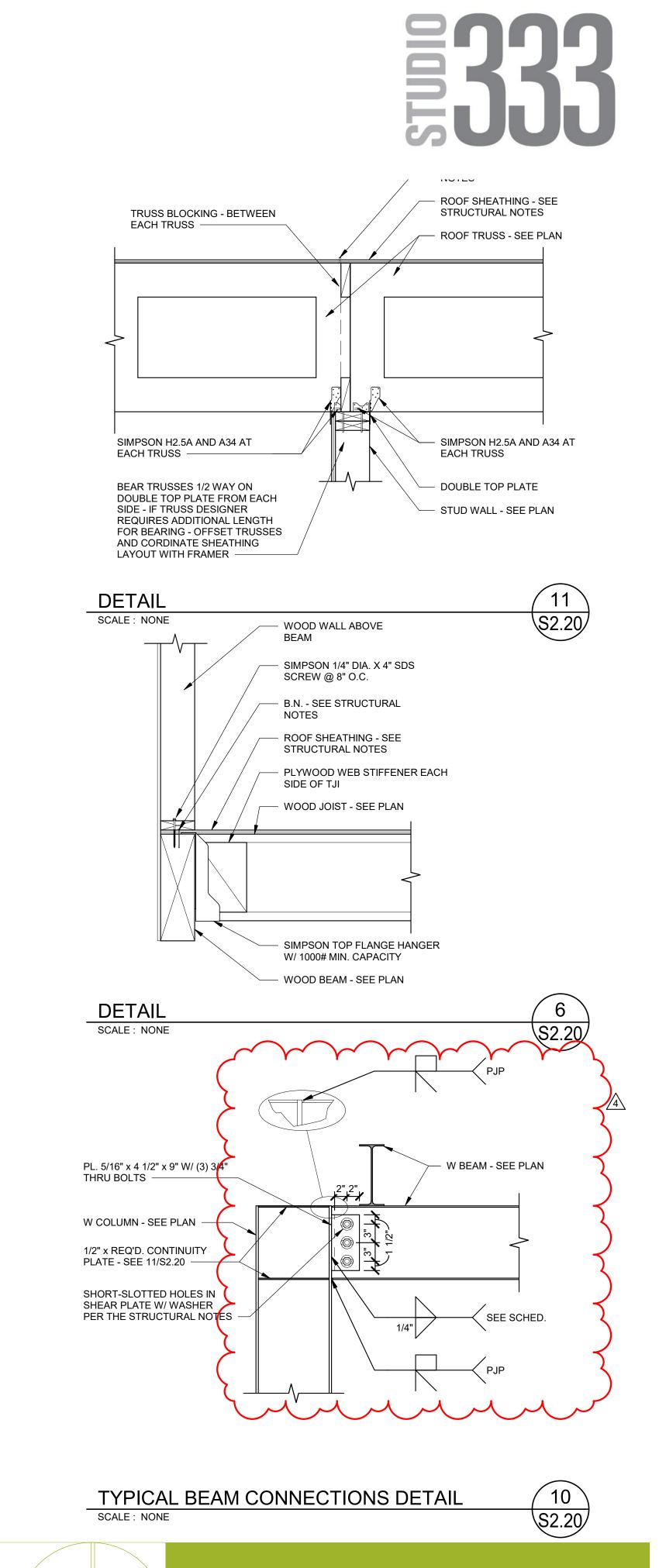






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3 S2.20

WALL SHEATHING (WHERE OCCURS) - SEE STRUCTURAL NOTES AND WOOD SHEAR

- 2x12 LEDGER W/ (4) MITEK WSWH5 SCREWS PER STUD -PRE-DRILL AS REQUIRED -FOLLOW MANUFACTURER'S

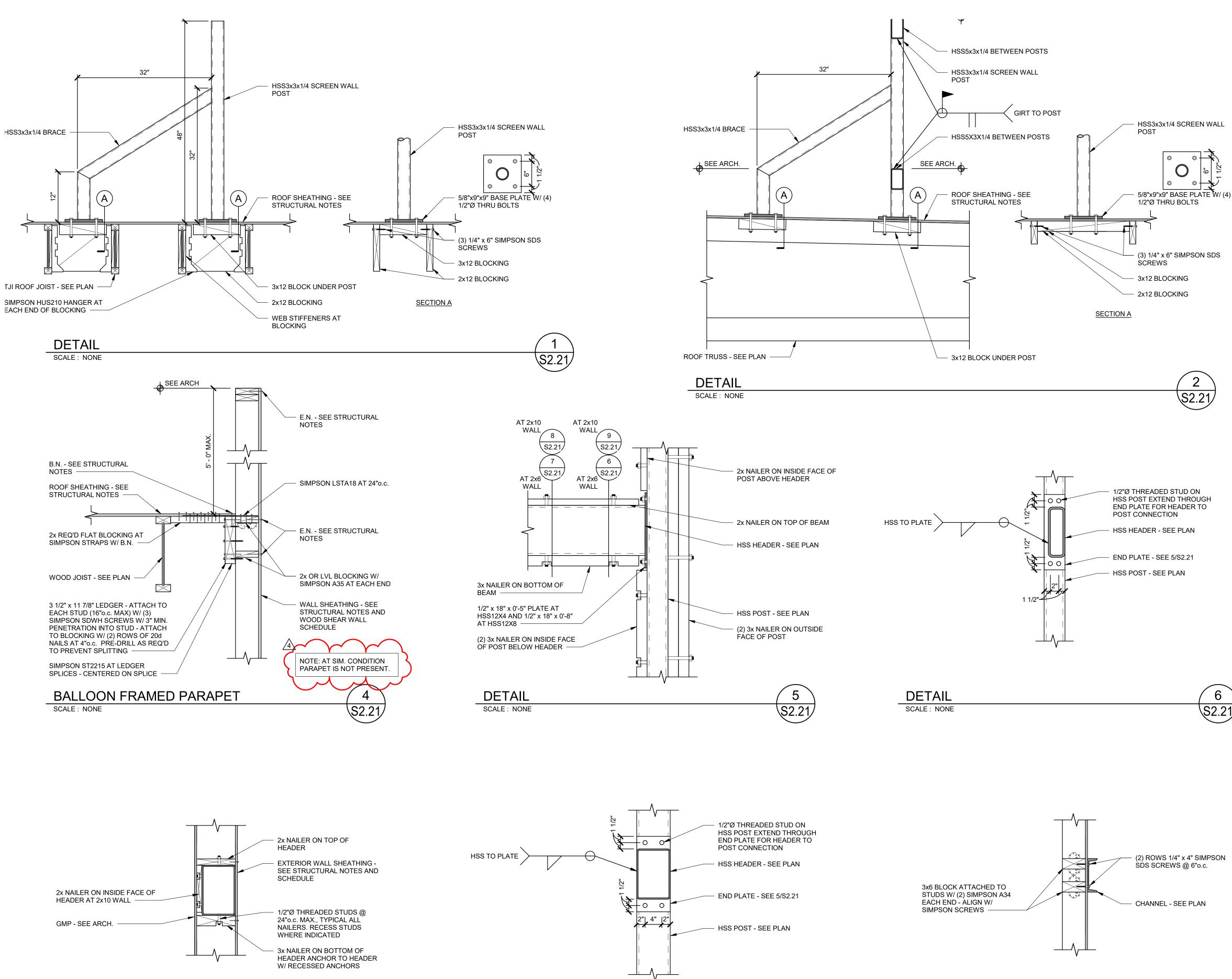


9

\$2.20

FLOOR AND ROOF FRAMING DETAILS

S2.20

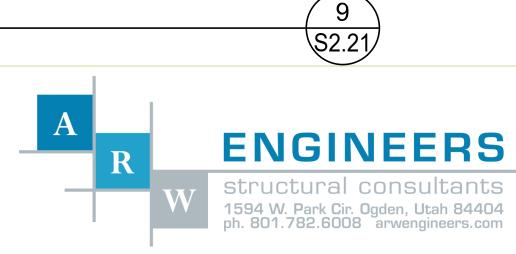


DETAIL 8 \$2.21/ SCALE : NONE **STUDIO 333 ARCHITECTS** "Nother MOL 333 24TH STREET Matthew C OGDEN, UT 84401 McBride No. 353893 801.394.3033 14/19/22

DETAIL SCALE : NONE

WEST FIELD SR SEMINARY 4383 W 2200 S, OGDEN, UT

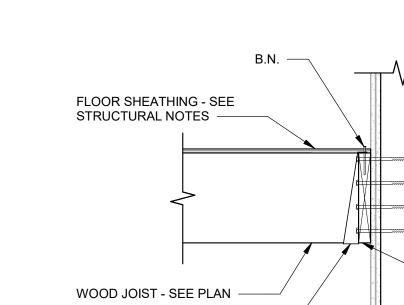
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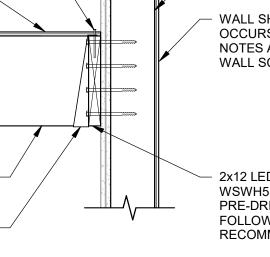


CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154



SIMSON HANGER MIN CAPACITY = 600#

> DETAIL SCALE : NONE



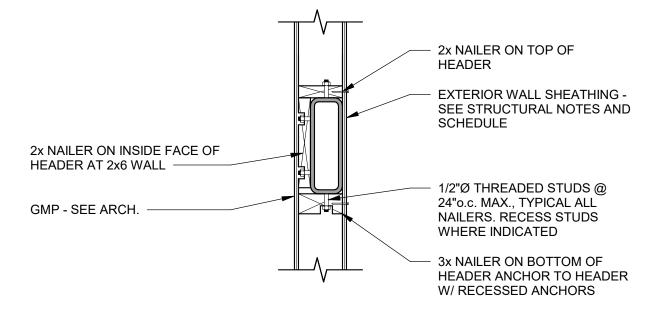
WOOD STUD WALL - SEE PLAN AND SCHEDULE

1

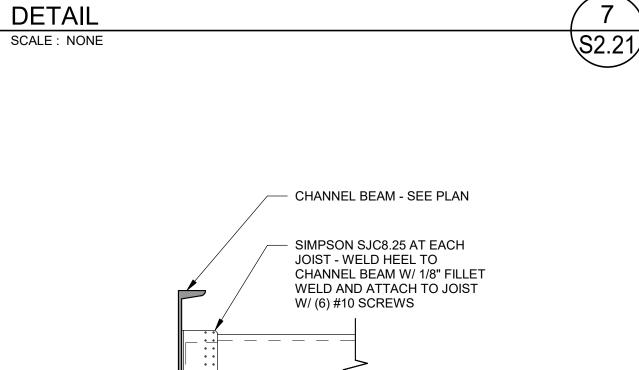
WALL SHEATHING (WHERE OCCURS) - SEE STRUCTURAL NOTES AND WOOD SHEAR WALL SCHEDULE

2x12 LEDGER W/ (4) MITEK WSWH5 SCREWS PER STUD -PRE-DRILL AS REQUIRED -FOLLOW MANUFACTURER'S RECOMMENDATIONS

\S2.21

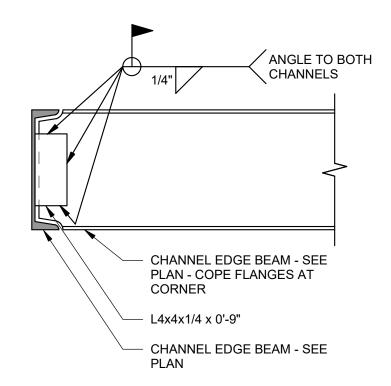


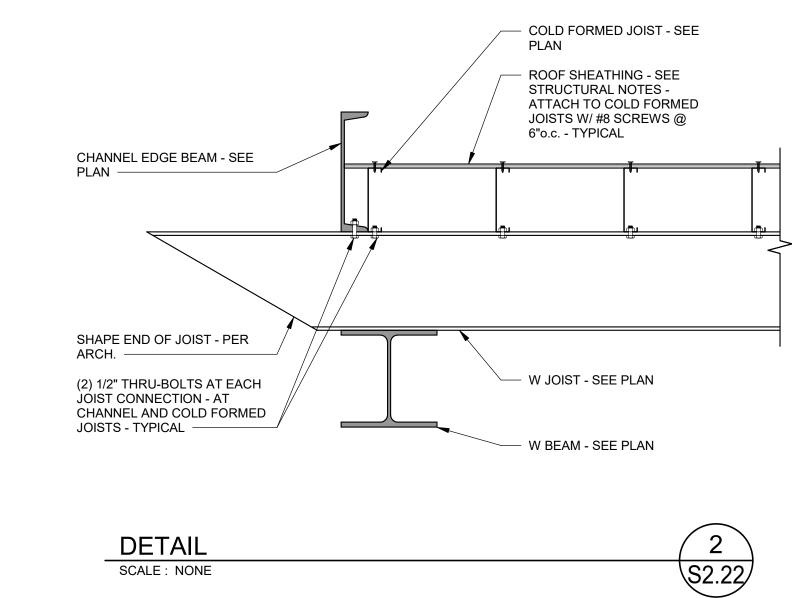
6 \$2.21

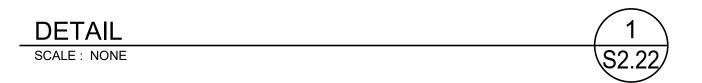


C JOIST - SEE PLAN BOTTOM OF JOIST 1-1/2"
 ABOVE BOTTOM OF CHANNEL







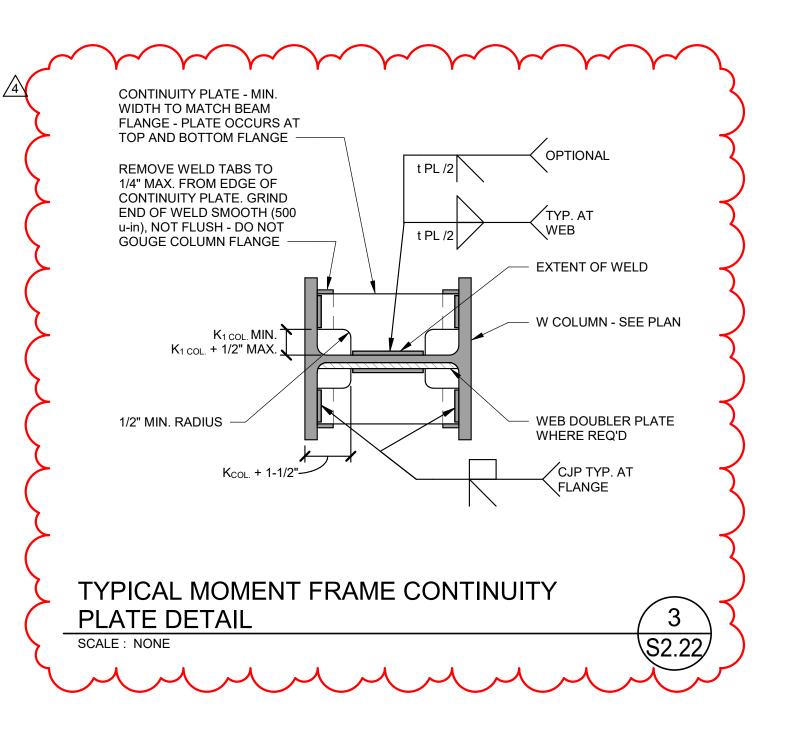




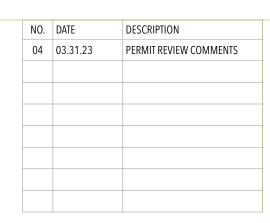
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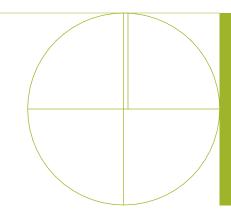






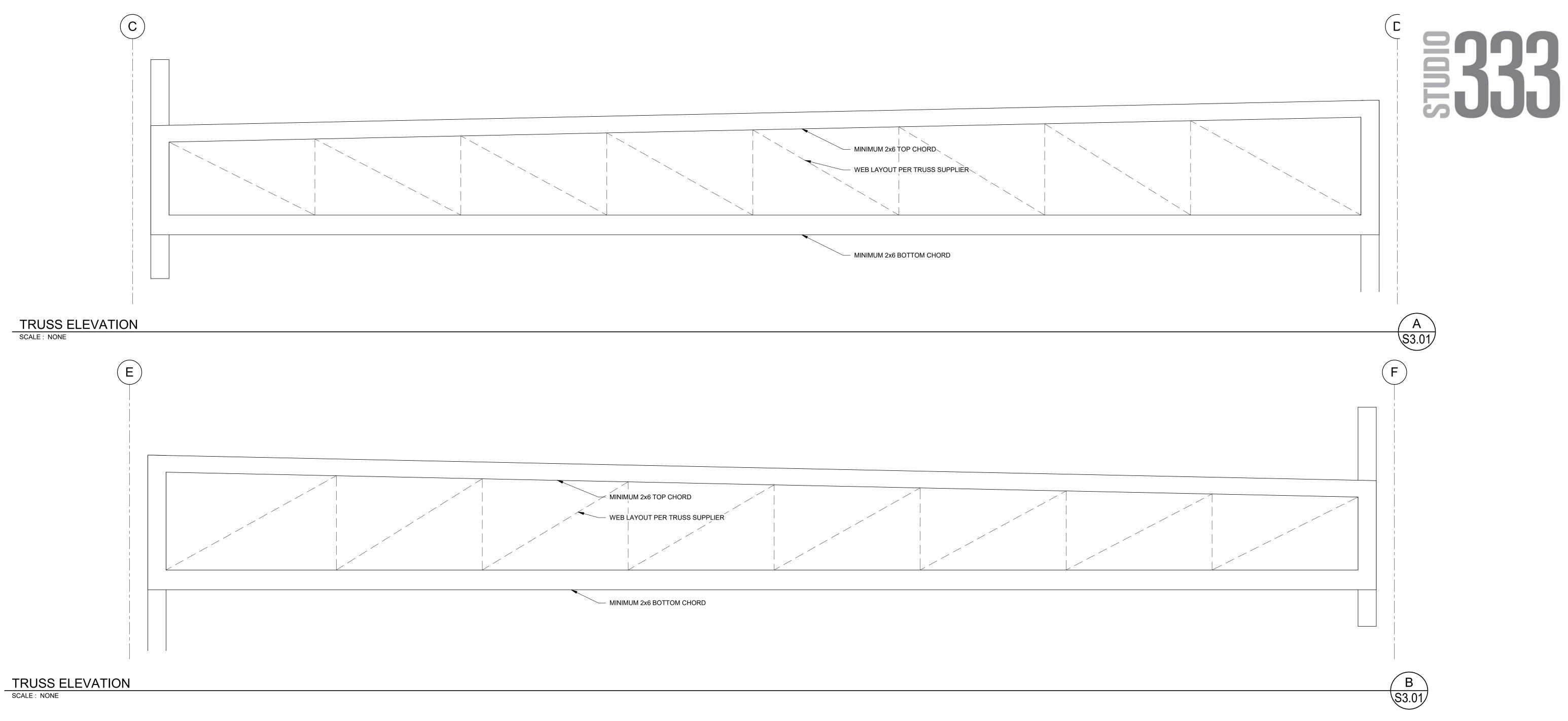
CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154



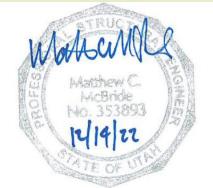


FLOOR AND ROOF FRAMING DETAILS

S2.22

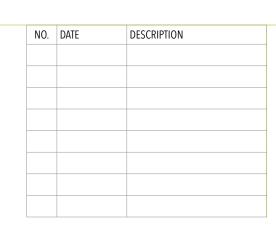


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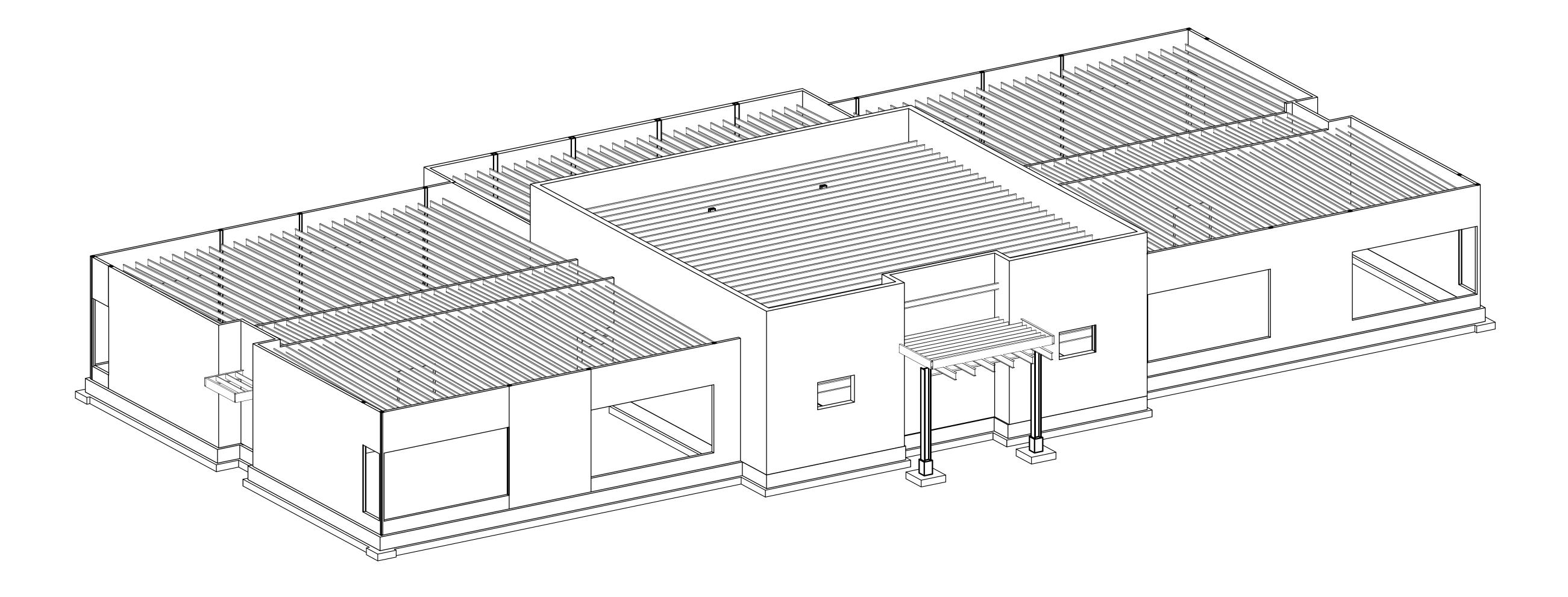




CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

TRUSS PROFILE

S3.01



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Workcimple Matthew C. McBride No. 353893

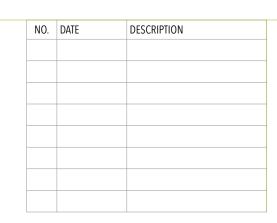
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3D REFERENCE VIEW



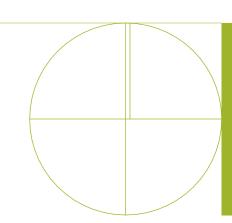


CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154



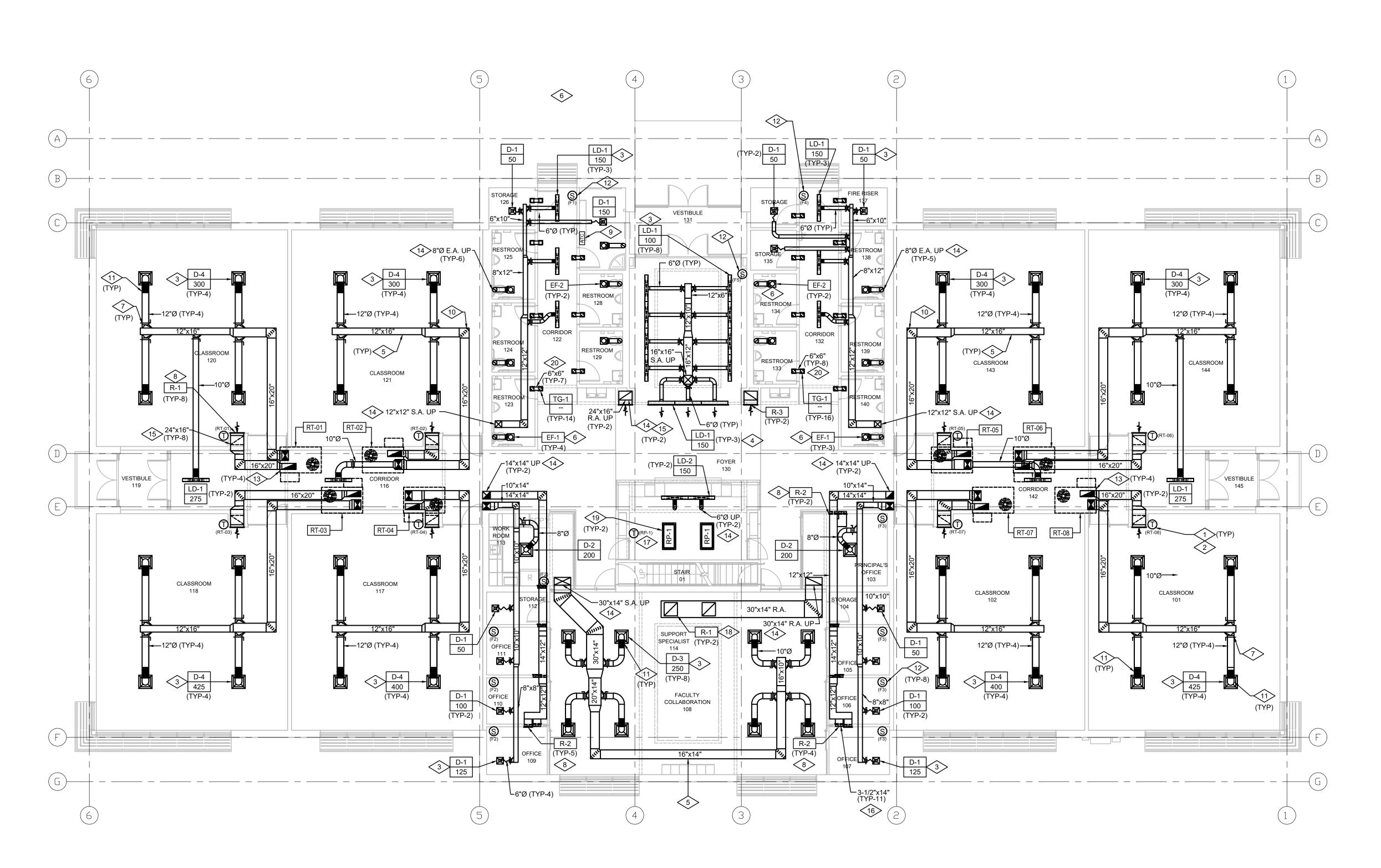


NOTE: THIS VIEW REPRESENTS A SCHEMATIC RENDERING ONLY AND IS NOT INTENDED TO CONVEY CONSTRUCTION INFORMATION. ALL CONSTRUCTION SHALL COMPLY WITH SPECIFIC NOTES AND DETAILS WITHIN THE STRUCTURAL DRAWINGS.



SCHEMATIC REFERENCE

S4.01

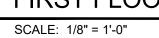


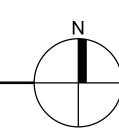


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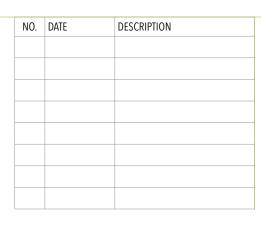
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FIRST FLOOR MECHANICAL PLAN









CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

1

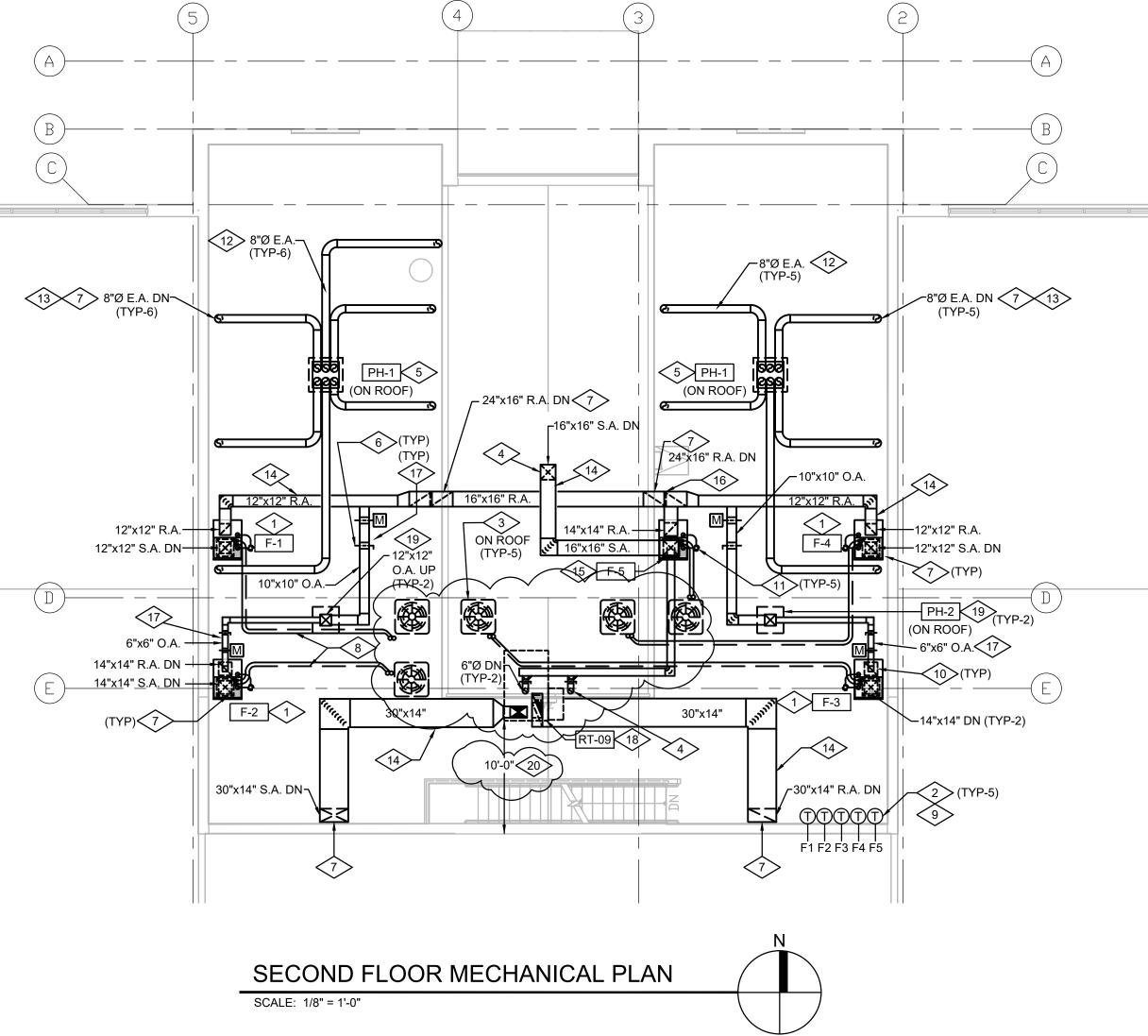
- # KEYED NOTES:
- THERMOSTAT. MOUNT 48 INCHES A.F.F. MAKE ALL REQUIRED CONTROL CONNECTIONS TO ROOF TOP UNIT OR FURNACE FOR A COMPLETE AND FUNCTIONAL TEMPERATURE CONTROL SYSTEM.
- 2 ALL TEMPERATURE CONTROL WIRING SHALL BE INSTALLED IN EMT CONDUIT.
- (3) INSTALL CEILING AND WALL MTD DIFFUSERS AND GRILLES AS INDICATED. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATION DRAWINGS FOR EXACT LOCATION. (TYP) . SEE DETAILS 4/M6.1 AMD 6/M6.1
- 4 INSTALL WALL MTD S.A. LINEAR DIFFUSER IN THIS LOCATION. COORDINATE W/ ARCHITECT FOR LOCATION. PROVIDE PLENUM BOOT, BALANCING DAMPER AND FLANGED WALL FRAME FOR MOUNTING.
- 5 RUN DUCTWORK HIGH CLOSE TO ROOF STRUCTURE. COORDINATE LOCATION WITH FIRE PROTECTION, ELECTRICAL AND PLUMBING TRADES.
- 6 INSTALL CEILING MOUNTED EXHAUST FAN IN THIS LOCATION. SEE INSTALLATION
- DETAIL 6/M5.2 VOLUME DAMPER (TYP).
- 8 INSTALL LOW SIDEWALL R.A. GRILLE IN THIS LOCATION. MOUNT GRILLE 6" A.F.F. SEE DETAIL 4/M6.3
- 9 INSTALL BLDG ATC CONTROL PANEL IN THIS LOCATION. PROVIDE 120V / 1 PH POWER CONNECTION. MOUNT PNL 54" A.F.F.
- 10
 DUCT TURNING VANES (TYP)
- (TYP) INSULATED FLEXIBLE DUCT CONNECTION. LIMIT LENGTH OF FLEXIBLE DUCT TO 3'-0" (TYP)
- AVERAGING TEMPERATURE SENSOR. MOUNT 48 INCHES A.F.F. MAKE ALL REQUIRED CONNECTIONS TO FURNACE AND ATC CONTROLS FOR A COMPLETE AND FUNCTIONAL TEMPERATURE CONTROL SYSTEM.
- (13) ROOF TOP UNIT. MOUNT ROOF TOP UNIT ON 14 INCH HIGH INSULATED ROOF CURB. SEE DETAIL 1/M6.1
- FOR CONTINUATION OF DUCTWORK SEE DRAWING M1.2
- <15> 24"x16" LINED R.A. DUCT UP IN FRAMED CHASE.
- (16) INSTALL UNLINED 14"x3-1/2" R.A. DUCT BETWEEN WALL STUDS. (TYP) SEE DETAIL 4/M6.3
- 17 INSTALL RADIANT ELECTRIC CEILING PANEL CONTROL THERMOSTAT ON WALL IN THIS LOCATION. MOUNT THERMOSTAT 48" A.F.F.
- (18) INSTALL R.A. GRILLES TO BOTTOM OF DUCT CENTERED BETWEEN LIGHTS
- (19) INSTALL ELECTRIC RADIANT CEILING PANEL IN THIS LOCATION SEE DETAIL 5/M6.1
- (TYP) INSTALL TRANSFER AIR (T.A.) DUCT AND GRILLES IN THIS LOCATION. SEE DETAIL 7/M5.2

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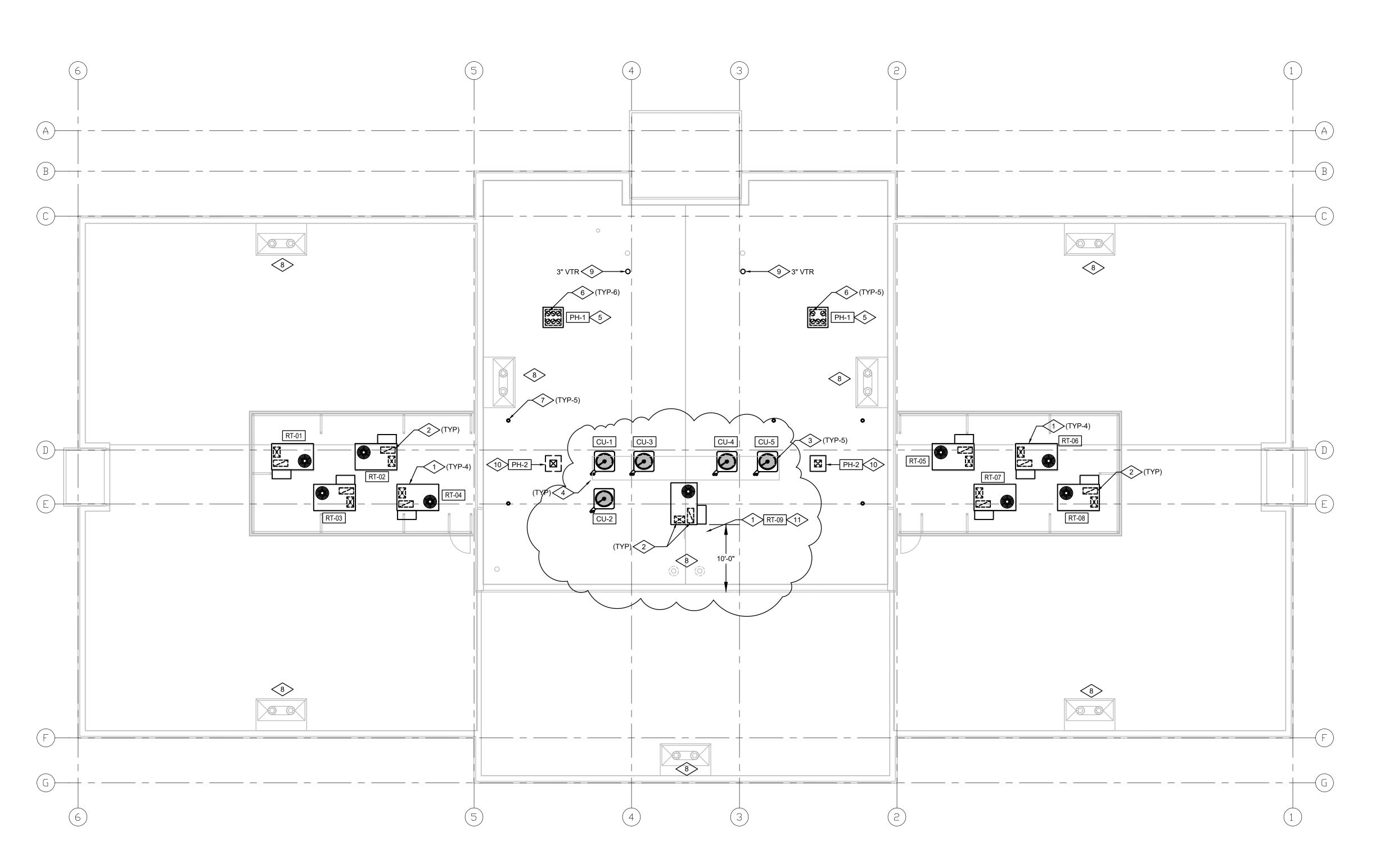
CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

REFERENCE NOTES

	INSTALL NEW DOWNFLOW FURNACE AND COOLING COIL IN THIS LOCATION. SEE DETAIL 3/M6.1.
2>	THERMOSTAT. HONEYWELL LCBS CONTROLLER. MOUNT THERMOSTAT 48 INCHES A.F.F. MAKE ALL REQUIRED CONNECTIONS FOR A COMPLETE AND FUNCTIONAL TEMPERATURE CONTROL SYSTEM.
3>	INSTALL CONDENSING UNIT ON ROOF. MOUNT CONDENSING UNIT ON 14" HIGH INSULATED ROOF CURB. SECURE CONDENSING UNIT TO ROOF CURB. SEE DETAIL 1/M6.3.
4	EXTEND S.A. DUCT DN TO CEILNG MTD LINEAR DIFFUSERS. SEE DRAWING M1.1 FOR CONTINUATION.
5	INSTALL ROOF MOUNTED EXHAUST AIR PENTHOUSE IN THIS LOCATION. SEE DETAIL 5/M6.2.
6	VOLUME DAMPER (TYP).
$\langle \overline{7} \rangle$	FOR CONTINUATION OF DUCTWORK SEE DRAWING M1.1
8	RUN REFRIGERATION LIQUID AND SUCTION LINES HIGH CLOSE TO STRUTURE. SEE PIPING SUPPORT DETAILS 1/M6.2 & 2/M6.2.
9	ALL TEMPERATURE CONTROL WIRING SHALL BE INSTALLED IN EMT CONDUIT.
	RETURN AIR DUCT TO EXTEND UP THROUGH FLOOR INTO FURNACE PLENUM.
	EXTEND 3" SCH. 40 PVC C.A. & FLUE PIPES FROM FURNACE TO ROOF. PROVIDE CONCENTRIC FLUE TERMINATION KIT AT ROOF. SEE DETAIL 3/M6.2.
12>	RUN EXHAUST AIR DUCTS HIGH CLOSE TO CEILING. EXTEND UP THROUGH ROOF INTO E.A. PENTHOUSE. (TYP)
13>	8" DIA. EXHAUST AIR DUCT UP FROM CEILING EXHAUST FAN BELOW. COORDINATE LOCATION OF EXHAUST DUCT WITH BLDG STRUCTURE.
14>	DUCTWORK TO RUN HIGH CLOSE TO STRUCTURE. COORDINATE LOCATION WITH LIGHTING AND PLUMBING TRADES.
	INSTALL NEW UPFLOW FURNACE AND COOLING COIL IN THIS LOCATION. SEE DETAIL 8/M6.2.
	OFFSET RETURN AIR DUCT AS NEEDED.
	INSTALL MOTORIZED DAMPER AND VOLUME DAMPER IN THIS LOCATION SEE DETAIL 5/M6.3.
	ROOF TOP UNIT. MOUNT ROOF TOP UNIT ON 14 INCH HIGH INSULATED ROOF CURB. SEE DETAIL 1/M6.1.
19	INSTALL ROOF MOUNTED OUTSIDE AIR PENTHOUSE IN THIS LOCATION. SEE DETAIL 6/M6.3.
	MAINTAIN 10'-0" CLEARANCE BETWEEN PARAPET WALL AND ROOF TOP UNIT.



M1.2

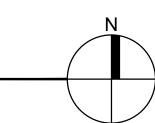


MECHANICAL ROOF PLAN SCALE: 1/8" = 1'-0"

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DATE	DESCRIPTION
03.31.23	PERMIT REVIEW COMMENTS

CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154



REFERENCE NOTES

		INSTALL ROOF TOP UNIT IN THIS LOCAITNO. MOUNT ROOF TOP UNIT ON 14 INCH HGIH ROOF CURB. SEE DETAIL 1/M6.1.
	2>	COORDINATE ROOF TOP UNIT S.A. AND R.A. ROOF PENETRATIONS WITH STRUCTURAL ENGINEER. PROVIDE FRAMED ROOF OPENINGS FOR EACH DUCT THROUGH ROOF PENETRATION.
	3>	MOUNT CONDENSING UNIT IN THIS LOCATION. MOUNT CONDENSING UNIT ON 14" HIGH ROOF CURB. SEE DETAIL 1/M6.3.
	4>	EXTEND REFRIGERATION PIPING FROM CONDENSING UNIT DN THROUGH ROOF. PROVIDE ROOF JACKS FOR EACH PIPE PENETRATION. SEAL WATERTIGHT.
	5	INSTALL E.A. PENTHOUSE IN THIS LOCATION. MOUNT PENTHOUSE ON 14" HIGH ROOF CURB. SEE DETAIL 5/M6.2
		EXHAUST AIR DUCTS TO EXTEND UP INTO PENTHOUSE. (TYP)
		FURNACE CONCENTRIC ROOF KIT. SEE DETAIL 3/M6.2.
	8	ROOF DRAINS SHOWN FOR REFERENCE ONLY.
	9	PLUMBING VENT. SHOWN FOR REFERENCE ONLY.
/	10	INSTALL ROOF MOUNTED OUTSIDE AIR PENTHOUSE IN THIS
(MAINTAIN 10'-0" CLEARANCE FROM ROOF PARAPET.
/		



DIFFUSER, GRILLE AND REGISTER SCHEDULE												
SYMBOL	TYPE	NECK SIZE	LOCATION	AIR PATTERN	MAKE & MODEL							
D-1 CFM	SUPPLY AIR	6"Ø	CEILING MTD.	4-WAY	PRICE SPD 12" x 12" FACE (1)(3)							
D-2 CFM	SUPPLY AIR	8"Ø	CEILING MTD.	4-WAY	PRICE SPD 24" x 24" FACE (1)(3)							
D-3 CFM	SUPPLY AIR	10"Ø	CEILING MTD.	4-WAY	PRICE SPD 24" x 24" FACE (1)(3)							
D-4 CFM	SUPPLY AIR	12"Ø	CEILING MTD.	4-WAY	PRICE SPD 24" x 24" FACE (1)(3)							
LD-1 CFM	LINEAR SLOT	10"Ø / 48" x 6"	CEIL & WALL MTD.	2-WAY	PRICE SDBI100 - 3 SLOT (1)(4)(5) W/ PLENUM							
LD-2 CFM	LINEAR SLOT	6"Ø / 48" x 6"	CEILING MTD.	2-WAY	PRICE TBD4 (1)(3)(4) 2-SLOT FACE							
R-1	RETURN AIR	24"x24"	WALL MTD.	1-WAY	PRICE 535 (1)(2)(3)							
R-2	RETURN AIR	14"x8"	WALL MTD.	1-WAY	PRICE 535 (1)(2)(3)							
R-3	RETURN AIR	24"x16"	WALL MTD.	1-WAY	PRICE 535 (1)(2)(5)							
TG-1 CFM	TRANSFER AIR	6"x 6"	CEILING MTD.	1-WAY	PRICE 535 (1)(3)							

NOTES:

(1) PROVIDE MOUNTING FRAMES FOR T-BAR CEILING, GYP. BOARD CEILING OR GYP.BOARD WALL.

(2) MOUNT GRILLE LOW ON WALL ABOVE FLOOR BASE OR AS INDICATED (3) TO HAVE BRIGHT WHITE POWDER COAT FINISH.

(4) FURNISH WITH INSULATED AND TAPERED PLENUM SUPPLY BOX. (5) TO HAVE ANODIZED ALUMINUM FINISH.

LEGEND	AND ABBREVIATIONS
— — RL— —	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
AD	ACCESS DOOR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
O.A.	OUTSIDE AIR
E.A.	EXHAUST AIR
Ū	THERMOSTAT
S	REMOTE SENSOR
P.O.C.	POINT OF CONNECTION
М	MOTORIZED DAMPER
\square	S.A. DUCT SECTION UP
[×]	S.A. DUCT SECTION DN
	FLEXIBLE DUCT CONNECTION
ĒŦ	MANUAL DAMPER
	MOTORIZED DAMPER
٤ع	UNDERGROUND DUCT
	R.A., E.A. OR O.A. DUCT SECTION UP
	R.A., E.A. OR O.A. DUCT SECTION DN
	SUPPLY AND RETURN AIR DUCT TAKE-OFF
	SINGLE THICKNESS TURNING VANES
	DUCT TRANDITION

	ROOFTOP UNIT SCHEDULE																			
SYMBOL		EXTERNAL					COOLING CAP	PACITY		HEATING CAPACITY			ELEC	MCA	MFS	WEIGHT	0175			
STWBOL	SERVES	CFM	STATIC PRESS.	FAN H.P.	DRIVE	ΟΑΤ	EDB EWB	TOTAL MBH	SENSIBLE MBH	SEER / EER	TYPE	GAS CONN.	MBH IN	MBH OUT	ELEC	MCA		LBS.	SIZE	MANUFACTURER & MODEL (1)(2)(3)(4)
RT-01	CLASSROOM 120	1475	0.8	1.0	BELT	95	80 62	48.7	37.1	15.4	INDIRECT GAS	1/2"	112 82	90 66	208 V/3 /60	24.0	30	720	74" x 49" x 41"	YORK ZYG05E2B3AB2B324A2 (4 TON)
RT-02	CLASSROOM 121	1425	0.8	1.0	BELT	95	80 62	48.7	37.1	15.4	INDIRECT GAS	1/2"	112 82	90 66	208 V/3 /60	24.0	30	720	74" x 49" x 41"	YORK ZYG05E2B3AB2B324A2 (4 TON)
RT-03	CLASSROOM 118	1700	0.8	1.5	BELT	95	80 62	66.1	65.8	15.2	INDIRECT GAS	1/2"	112 82	90 66	208 V/3 /60	30.0	45	740	74" x 49" x 41"	YORK ZYG06E2B3AB2B324A2 (5 TON)
RT-04	CLASSROOM 117	1600	0.8	1.5	BELT	95	80 62	66.1	65.8	15.2	INDIRECT GAS	1/2"	112 82	90 66	208 V/3 /60	30.0	45	740	74" x 49" x 41"	YORK ZYG06E2B3AB2B324A2 (5 TON)
RT-05	CLASSROOM 143	1475	0.8	1.0	BELT	95	80 62	48.7	37.1	15.4	INDIRECT GAS	1/2"	112 82	90 66	208 V/3 /60	24.0	30	720	74" x 49" x 41"	YORK ZYG05E2B3AB2B324A2 (4 TON)
RT-06	CLASSROOM 144	1475	0.8	1.0	BELT	95	80 62	48.7	37.1	15.4	INDIRECT GAS	1/2"	112 82	90 66	208 V/3 /60	24.0	30	720	74" x 49" x 41"	YORK ZYG05E2B3AB2B324A2 (4 TON)
RT-07	CLASSROOM 102	1600	0.8	1.5	BELT	95	80 62	66.1	65.8	15.2	INDIRECT GAS	1/2"	112 82	90 66	208 V/3 /60	30.0	45	740	74" x 49" x 41"	YORK ZYG06E2B3AB2B324A2 (5 TON)
RT-08	CLASSROOM 101	1700	0.8	1.5	BELT	95	80 62	66.1	65.8	15.2	INDIRECT GAS	1/2"	112 82	90 66	208 V/3 /60	30.0	45	740	74" x 49" x 41"	YORK ZYG06E2B3AB2B324A2 (5 TON)
RT-09	FACULTY COLL 108	2000	0.8	2.0	BELT	95	80 62	87.1	71.0	12.0	INDIRECT GAS	3/4"	125 90	100 72	208 V/3 /60	39.0	50.0	900	88" x 62" x 41"	YORK ZYG07E2B3AB2B324A2 (6 TON)
RT-09		2000	0.8	2.0	BELT	95	80 62	87.1	71.0	12.0	INDIRECT GAS	3/4"	125 90	100 72	208 V/3 /60	39.0	50.0	900	88" x 62" x 41"	YORK ZYG07E2B3AB2B324A

<u>NOTES:</u> (1) FURNISH ROOF TOP UNIT COMPLETE WITH FULL DRY BULB ECONOMIZER, BACNET CARD AND OPEN PROTOCOL CONTROLS FOR HONEYWELL LCBS CONTROLS, MOTORIZED R.A. & O.A. DAMPERS, GRAVITY RELIEF, WEATHERHOODS FOR O.A. AND RELIEF AIR, HAIL GUARDS, POWERED CONVENIENCE OUTLET, SINGLE POINT POWER CONNECTION W/ NON-FUSED DISCONNECT, STAINLESS STEEL DRAIN PAN, HIGH ALTITUDE KIT, LB/OZ GAS REGULATOR, MERV 8 AIR FILTERS, 2 STAGE MEDIUM GAS HEAT & LOCKING HINGED SERVICE ACCESS DOORS.

(2) INSTALL NEW ROOF-TOP UNIT LEVEL AND PLUMB PER MANUFACTURERS INSTRUCTIONS. MAINTAIN MANUFACTURERS RECOMMENDED SERVICE AND OPERATIONAL CLEARANCES AROUND UNIT.

DUCTWORK TO BE STRUCTURALLY FRAMED TO MATCH SUPPLY AND RETURN AIR OPENING SIZES PER ROOF TOP UNIT MANUFACTURER.

SYMBOL

EF-1

EF-2

NOTES:

PENTHOUSE SCHEDULE											
SYMBOL	TYPE	THROAT SIZE	LOUVERS HEIGHT	CFM	(1) MAKE & MODEL						
PH-1	EXHAUST AIR	30" x 24"	5 20"	VARIES	GREENHECK WRH-30X24-5						
PH-2	OUTSIDE AIR	12" x 12"	3 14"	VARIES	GREENHECK FGI-12X12X14						

NOTES:

(1) FURNISH COMPLETE WITH 14" HIGH ROOF CURB, STAINLESS STEEL BIRD SCREEN.

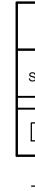
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WEST FIELD SR SEMINARY 4383 W 2200 S, OGDEN, UT



FURNACE/COIL PIPING SCHEDULE (1)(2)

SYMBOL	LIQUID LINE	SUCTION LINE
F-1	3/8"	7/8"
F-2	3/8"	3/4"
F-3	3/8"	3/4"
F-4	3/8"	7/8"
F-5	3/8"	7/8"

NOTES:

(1) REFRIGERATION LINE SIZES TO BE SIZED ACCORDING TO FURNACE COOLING COIL AND CONDENSING UNIT MANUFACTURERS GUIDE LINES.

(2) PRE-CHARGED FLEXIBLE COPPER OR ALUMINUM REFRIGERATION LINES ARE NOT ACCEPTABLE. ALL PIPING SHALL BE NITROGENIZED ACR HARD DRAWN COPPER WITH BRAZED FITTINGS.

	FURNACE SCHEDULE												
SYMBOL	ARRANG.	(2) TWO STAGE HTG. CAP. BTUH	CFM	EXT.	OUTSIDE AIR (CFM)	CLG. CO	CLG. COIL CAP.		MOTOR		(1)(2)(3 MANUFACTURER & MODEL		
	_	INPUT 🦯 INPUT		S.P.		BTUH	COND.	H.P.	ELECT.	SPEED			
F-1	DOWNFLOW	60000 58000	650	0.8"	200	42000	95°F	0.75	120/1/60	MED	CARRIER 59SC5B-060 (4		
F-2	DOWNFLOW	60000 58000	575	0.8"	40	30000	95°F	0.75	120/1/60	MED	CARRIER 59SC5B-060 (4		
F-3	DOWNFLOW	60000 58000	575	0.8"	40	30000	95°F	0.75	120/1/60	MED	CARRIER 59SC5B-060		
F-4	DOWNFLOW	60000 58000	650	0.8"	200	42000	95°F	0.75	120/1/60	MED	CARRIER 59SC5B-060		
F-5	UPFLOW	100000 97000	1550	0.8"	200	48000	95°F	1.00	120/1/60	MED-HIGH	CARRIER 59SC5B-100 (5		

(1) FURNACES TO BE COMPLETE WITH MATCHING CASED DX COOLING COILS OF SIZE INDICATED, ECM BLOWER, AND CONCENTRIC FLUE ROOF KITS
 (2) TWO-STAGE, MULTI-POSITION, HIGH/LOW GAS FIRED FORNACE WITH ECM MOTORS
 (3) PROVIDE EXTERNAL FILTER SECTION (SEE DETAIL 3/M6.3)
 (4) COOLING COIL TO BE VERTICAL DOWNFLOW TYPE. CARRIER CNPVP
 (5) COOLING COIL TO BE VERTICAL UPFLOW TYPE. CARRIER CNPVP

	CONDENSING UNIT SCHEDULE												
		COOLING CAPACITY			ELECTRICAL							(1)(2)(3)(4)	
SYMBOL	SERVES	MIN SEER	CAPACITY	E.A.T.	REF	COMP	NO.	FAN	NO.	VOLTS	PH	HZ	MANUFACTURER & MODEL
CU-1	F-1	14.0	42000	95° F	R-410A	17.9	1	1.20	1	208	1	60	CARRIER 24 ACC6-42
CU-2	F-2	14.0	30000	95° F	R-410A	12.8	1	0.70	1	208	1	60	CARRIER 24 ACC6-30
CU-3	F-3	14.0	30000	95° F	R-410A	12.8	1	0.70	1	208	1	60	CARRIER 24 ACC6-30
CU-4	F-4	14.0	42000	95° F	R-410A	17.9	1	1.20	1	208	1	60	CARRIER 24 ACC6-36
CU-5	F-5	14.0	48000	95° F	R-410A	19.9	1	1.20	1	208	1	60	CARRIER 24 ACC6-48

NOTES:

(2) 14 SEER MINIMAL ACCEPTABLE EFFICIENCY

ELECTRIC RADIANT PANEL S	CHEDULE
--------------------------	---------

		CAPACITY	CAPACITY		E	ELECTRICAL			
SYMBOL	LOCATION	(WATTS)	(MBH)	SIZE	VOLTS	PHASE	HZ	MAKE & MODEL	
RP-1	CEILING	500	1705	48"x24"	208	1	60	MARLEY BERKO CP501F	(1)(2)

NOTES:

(1) UL LISTED, 1" THICK WHITE PANELS W/ FIBERGLASS INSULATION

(2) FURNISH WITH JUNCTION-BOX, FACTORY WIRED, 22 GAUGE FRAME WITH GALV. STEEL BACK, AND RECESSED CEILING MOUNTING KIT FOR GYP BOARD CEILING.

(3) PROVIDE 14 INCH HIGH FACTORY FABRICATED AND INSULATED ROOF CURB. VERIFY LOCATION OF ROOF CURB AND ROOF OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO INSTALLING. ROOF OPENINGS FOR SUPPLY AND RETURN AIR

(4) AIRFLOW, HEATING AND COOLING CAPACITIES ARE MINIMUM ACCEPTABLE. CONTRACTOR TO SELECT EQUIPMENT FOR PROJECT SITE ALTITUDE OF 4200 FT ASL. 95 DEG F DB AND 62 DEG F WB.

	EXHAUST FAN SCHEDULE															
									FAN				ELECTRIC	CAL	PHYSICAL	
	MANUFACTURER AND MODEL NUMBER	SERVES	TYPE	AIR TYPE	MAXIMUM AIRFLOW RATE (CFM)		OUTLET VELOCITY (FPM)	FAN SPEED (RPM)	FAN WHEEL DRIVE	STATIC EFFICIENCY (%)	MAX SONES	MOTOR SIZE (HP)	MOTOR SPEED (RPM)	VOLT/PH/HZ	WEIGHT (LBS.)	NOTES
+																
	COOK GC-148	RESTROOMS	CEILING MTD.	EXHAUST	135	0.25	640	1075	DIRECT	32	3.4	40 WATTS	1075	120/1/60	20	(1)(2)(3)
	COOK GC-148	RESTROOMS	CEILING MTD.	EXHAUST	100	0.25	510	1075	DIRECT	30	3.4	35 WATTS	1075	120/1/60	20	(1)(2)(3)

(1) FURNISH EXHAUST FAN WITH INTEGRAL BACKDRAFT DAMPER, FACTORY MOUNTED FAN SPEED CONTROL, VIBRATION ISOLATION KIT AND ELECTRICAL DISCONNECT. (2) FURNISH EXHAUST FAN WITH WHITE ALUMINUM GRILLE.

(3) REFER TO SPECIFICATIONS FOR EXHAUST FAN CONTROL SEQUENCE. BALANCE EXHAUST FAN TO CFM INDICATED.



NO.	DATE	DESCRIPTION
04	03.31.23	PERMIT REVIEW COMMENTS

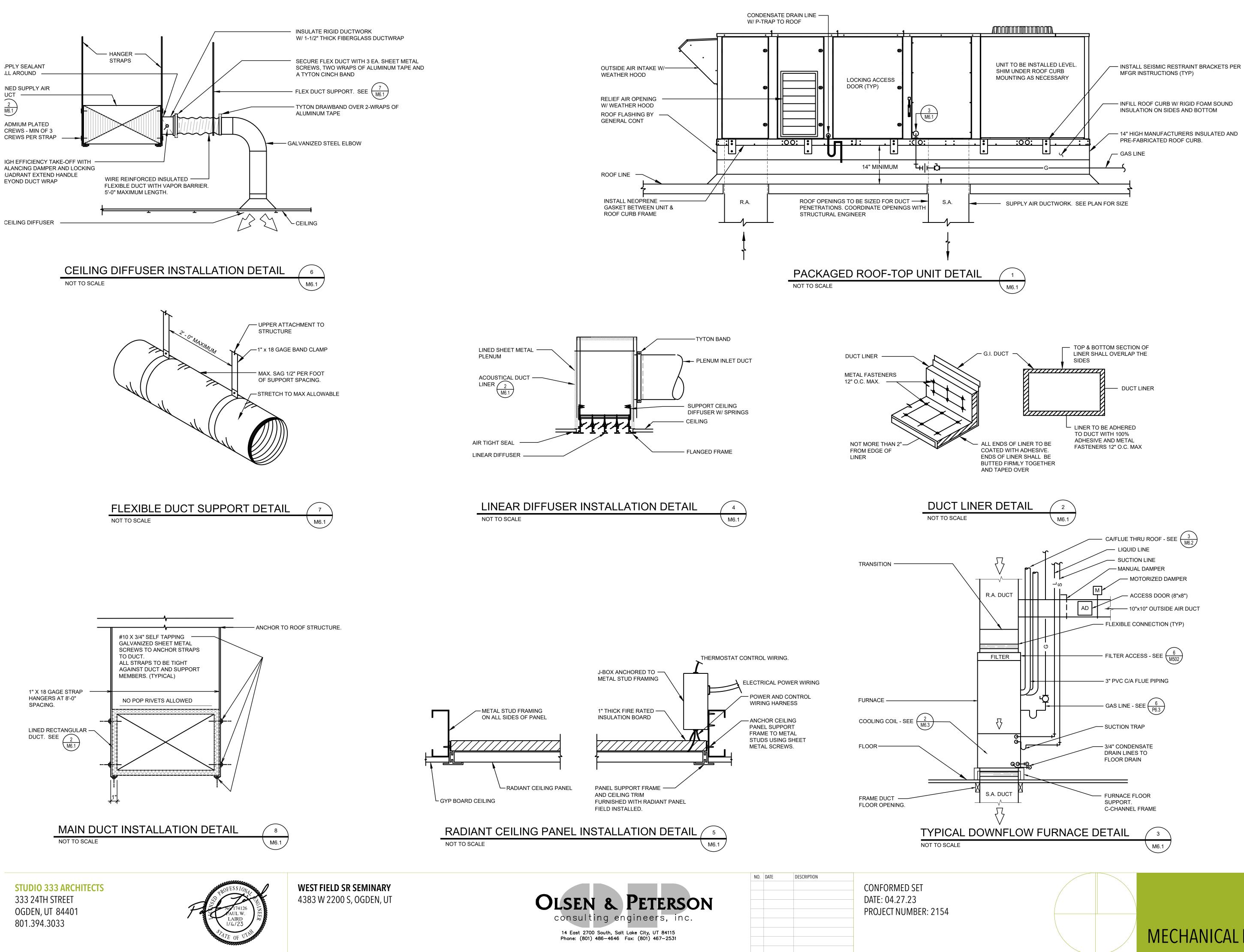
CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154



(1) 1MOUNT ALL CONDENSING UNITS ON 24" HIGH ROOF CURB WITH 1" THICK NEOPREME VIBRATION ISOLATORS AT EACH CORNER

(3) PROVIDE SEISMIC ATTACHMENT CLIPS- 1 PER SIDE - 4 PER CONDENSING UNIT. SEE DETAIL 1/M6.3
 (4) MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE AND OPERATIONAL CLEARANCES AROUND THE CONDENSING UNITS

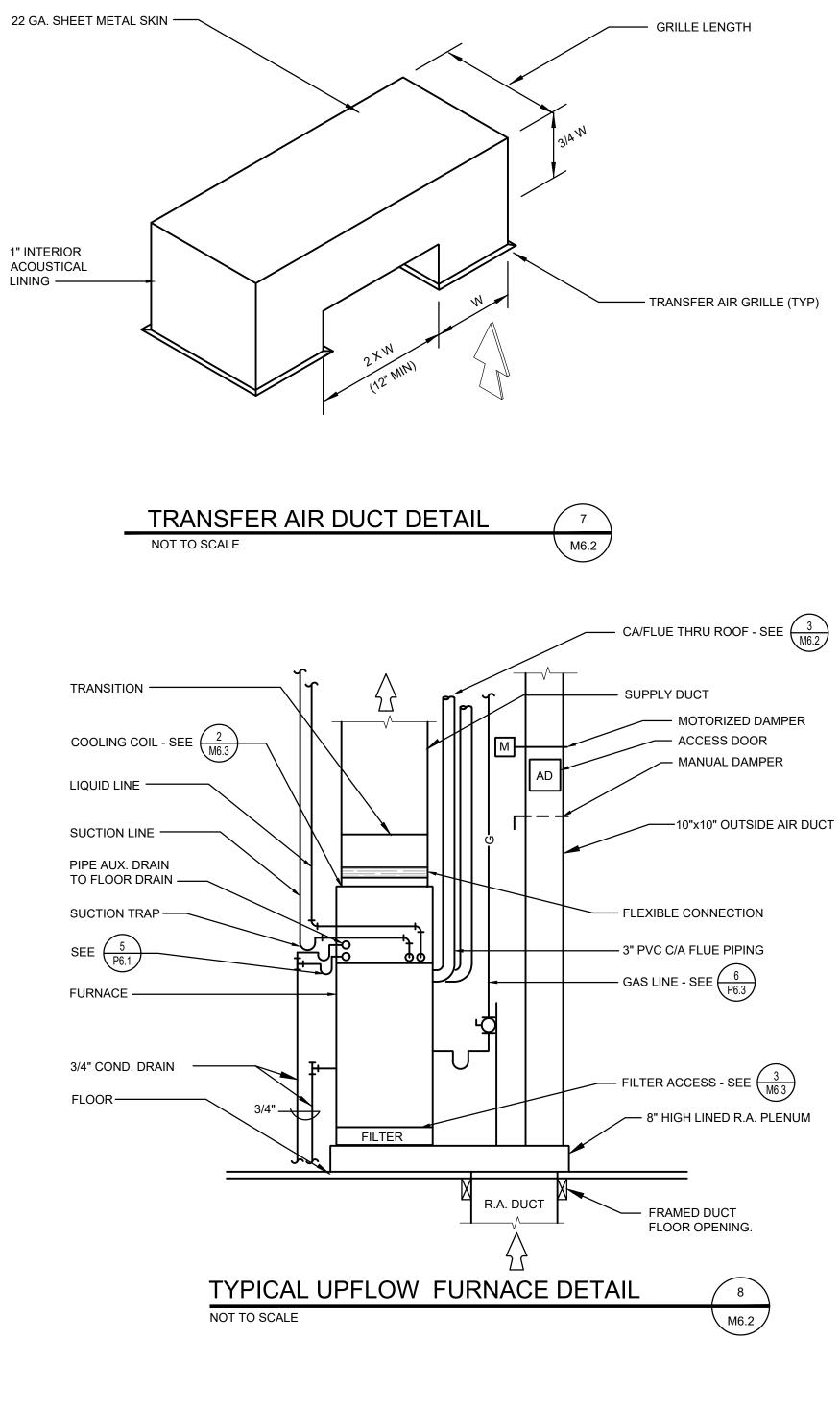
PROJECT DES	IGN DATA:					
LOCATION:	OGDEN, UTAH					
LATITUDE:	41.22°					
LONGITUDE:	111.97°					
ELEVATION:	4200 FT					
SUMMER DESIGN DRY BULB: 97°F						
SUMMER DESIGN WET BULB: 65°F						
WINTER DESIG	WINTER DESIGN DRY BULB: 1°F					
DEFAULT SUMMER INDOOR DRY BULB: 75°F						
DEFAULT WINT	ER INDOOR DRY BULB:	72°F				



-

MECHANICAL DETAILS

M6.1



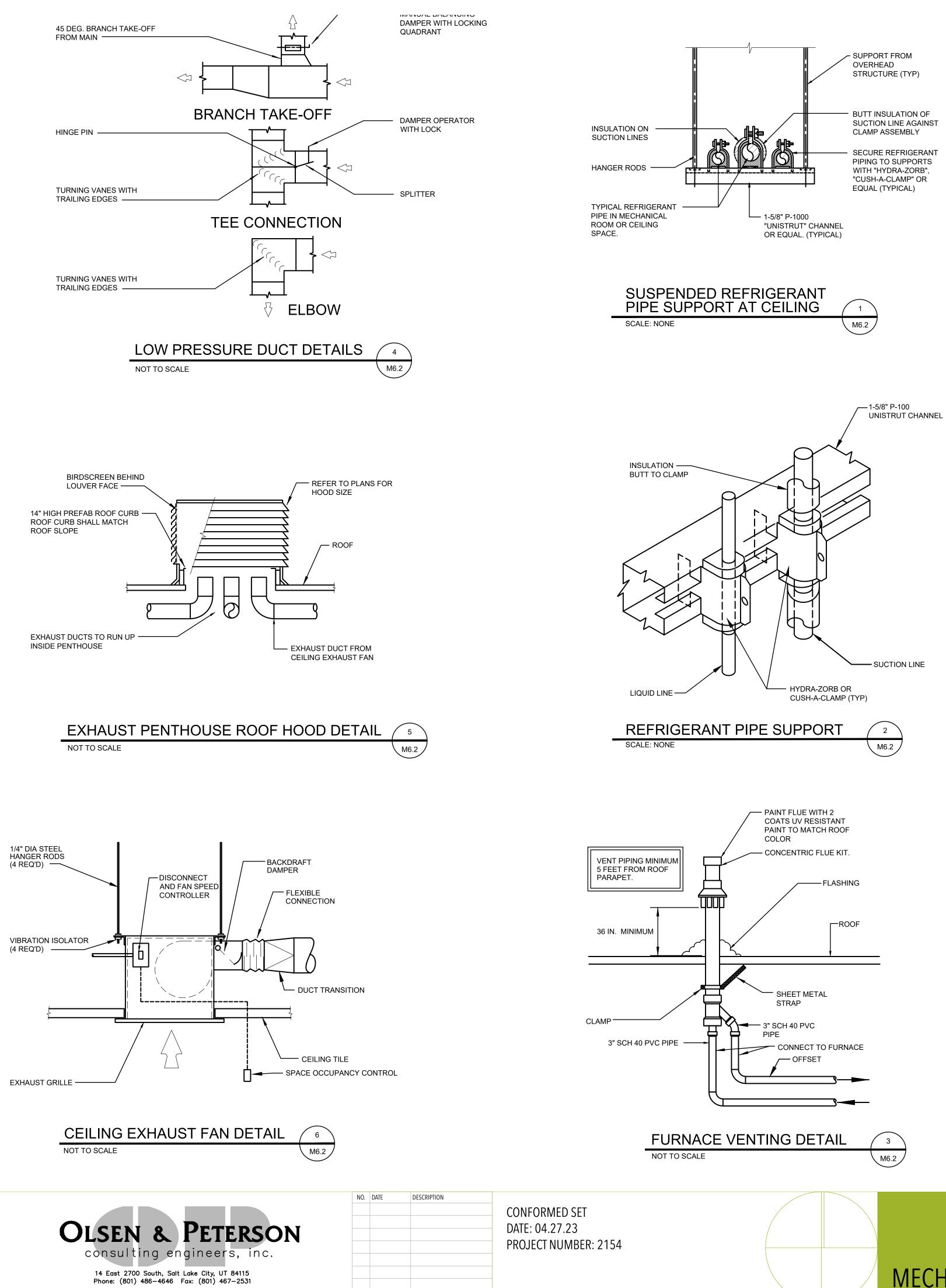
		AT JOINTS	3	
	J			
VIN. H. IN.	DRIVE SLIP PLAIN S SLIP RECOM- MENDED	HEMMED S SLIP RECOM- MENDED	ALTER'NT BAR SLIP RECOM- MENDED	REIN- FORCED BAR SLIP RECOM- MENDED GAGE
4				24
-		-		
1	24	24	24	24
1	-	24	24	24
1	-	-	22	22
H 11 1 1	H. N. 1 1	IIN. H. N. PLAIN S SLIP RECOM- MENDED GAGE 1 26 1 24 1 -	H. H. N. PLAIN S SLIP HEMMED S SLIP RECOM- MENDED GAGE 1 26 26 1 24 24 1 - 24	H. H. N. PLAIN S SLIP RECOM- MENDED GAGE RECOM- MENDED GAGE RECOM- MENDED GAGE RECOM- MENDED GAGE RECOM- MENDED GAGE 26 24 24 1 24 24 24

(2) LONGITUDINAL JOINTS TO BE PITTSBURG OR SNAP LOCK TYPE.

DUCT CONSTRUCTION DETAIL 9 \ SCALE: NONE M6.2

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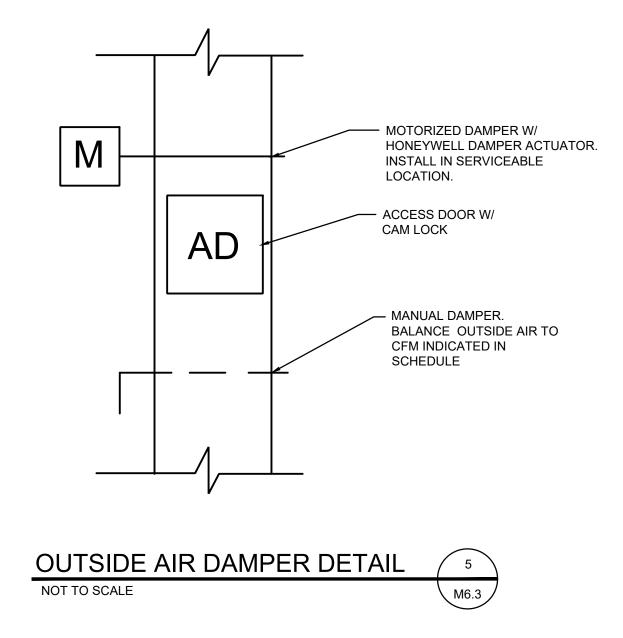
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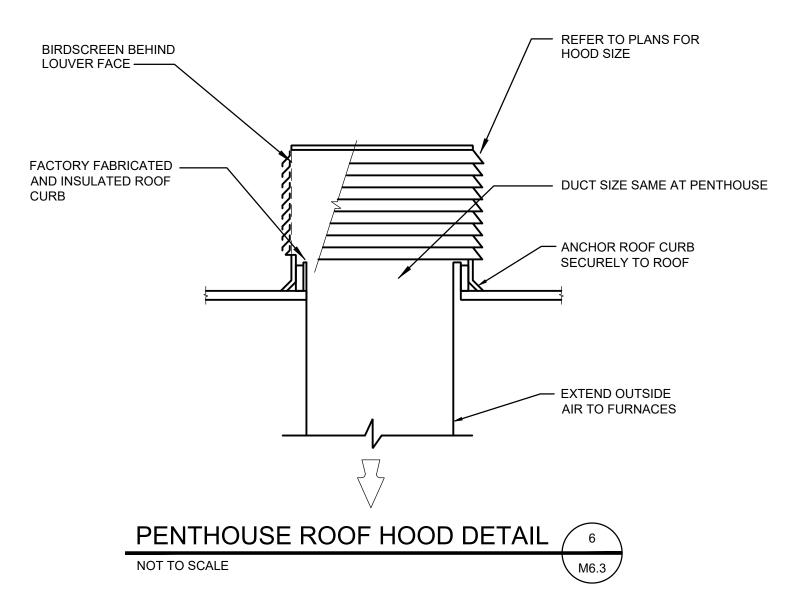


MECHANICAL DETAILS

M6.2



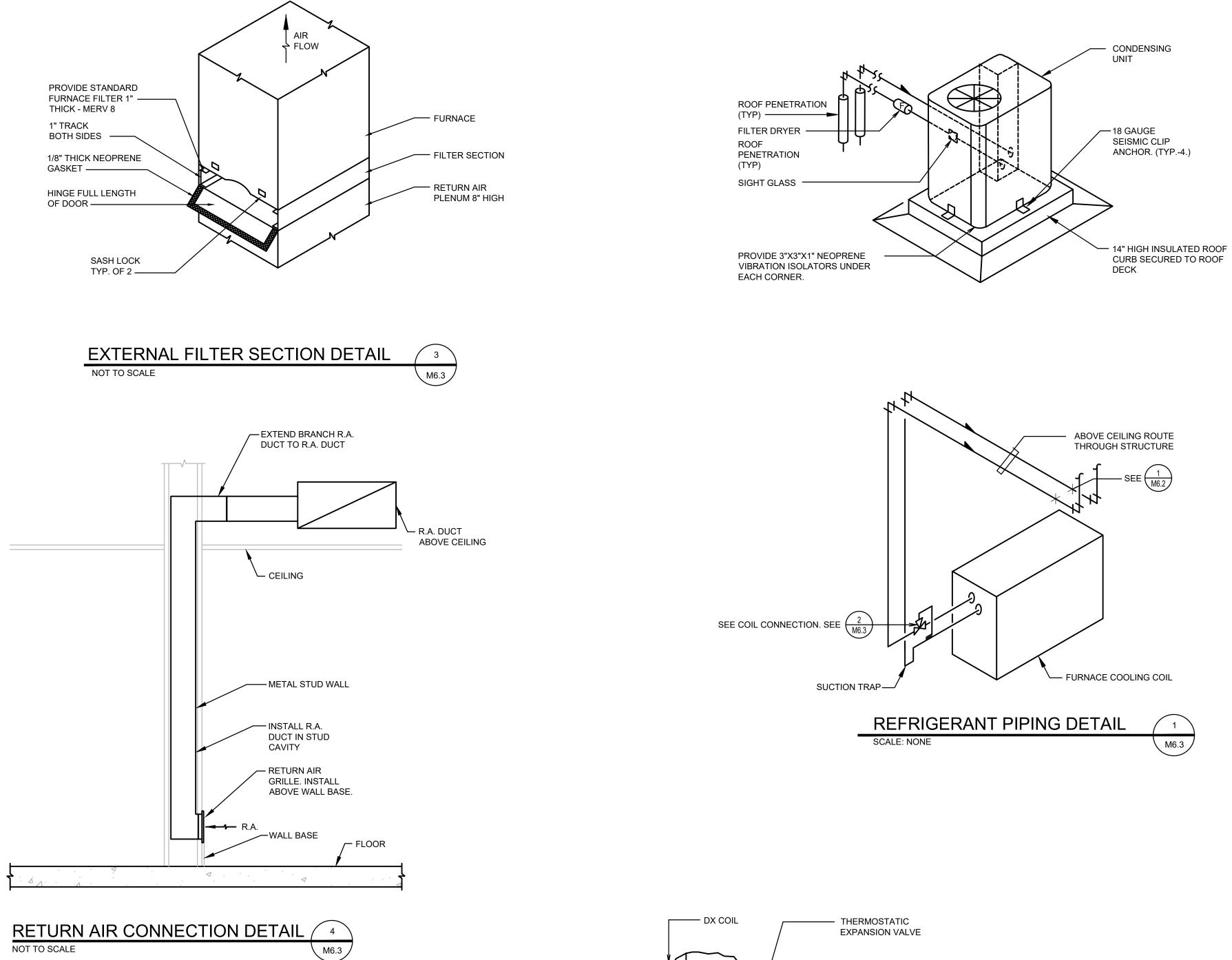


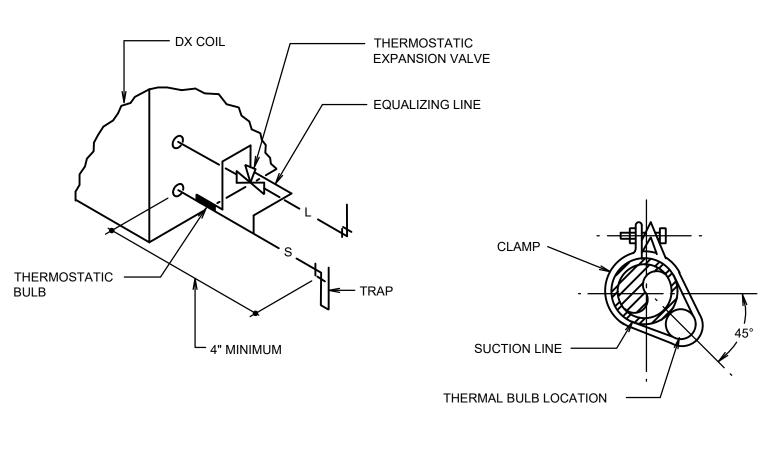




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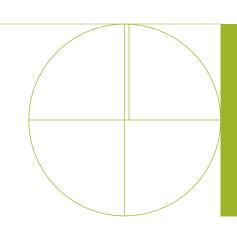
SCALE: NONE





CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154





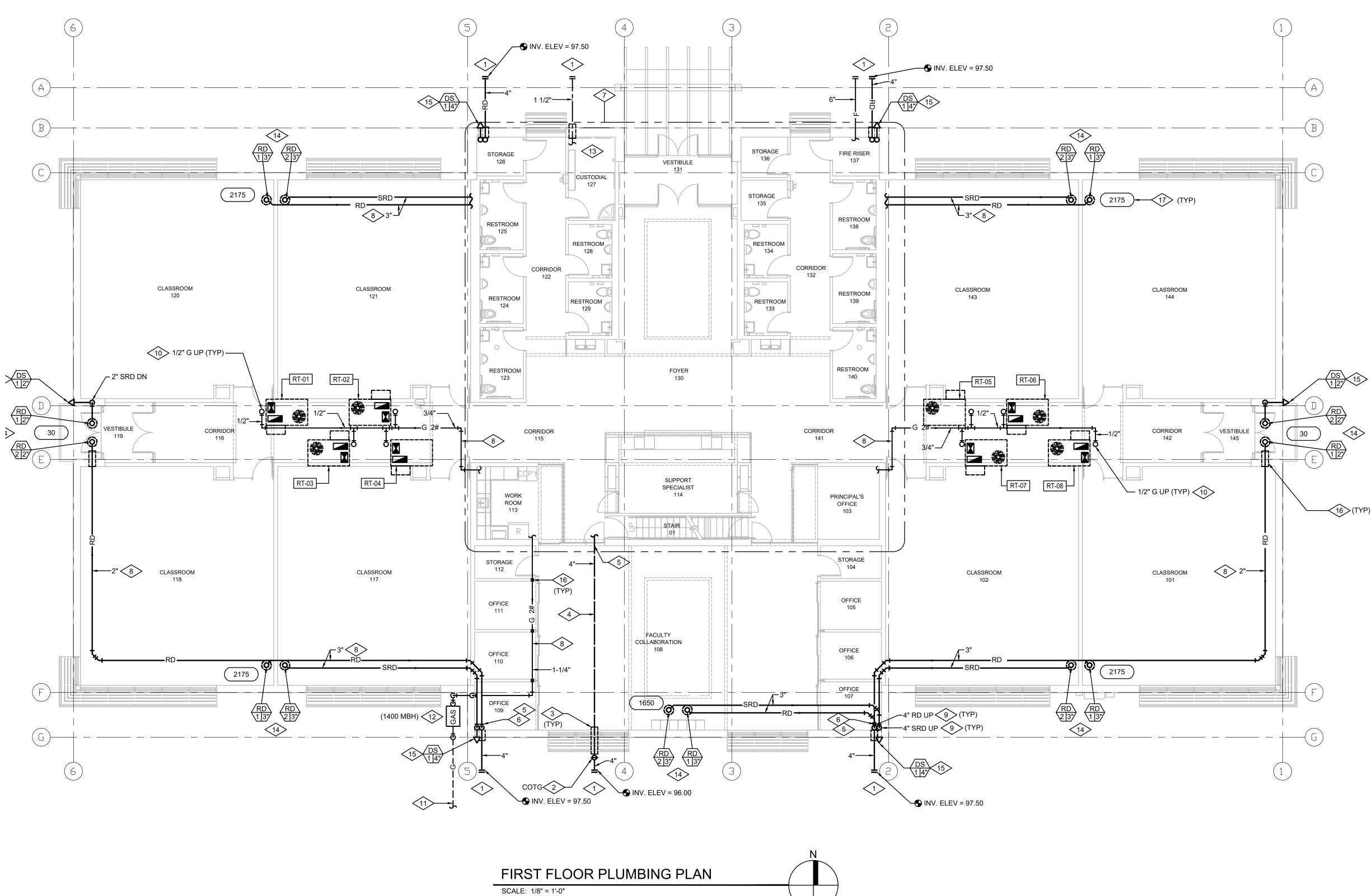
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M6.3

MECHANICAL DETAILS

ga ar

M6.3





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CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

Ban and 1941 (M) S

REFERENCE NOTES

- POINT OF CONNECTION (P.O.C.) CONNECT TO SITE UTILITY PIPING IN THIS LOCATION. MATCH PIPING SIZE AND MATERIAL OR PROVIDE COMPATIBLE TRANSITION.
- CLEANOUT TO GRADE (COTG). SEE DETAIL 9/P6.3
- 3 RUN PIPING UNDER OR OVER BUILDING FOOTING. PROVIDE SCHEDULE 40 PIPE SLEEVE.
- 4 PIPING TO RUN BELOW FLOOR. SLOPE AT 2%
- 5 COORDINATE LOCATION OF PIPING WITH STRUCTURAL FOOTINGS. RUN PIPING UNDER FOOTINGS WHERE NEEDED.
- 6 PROVIDE CLEANOUT (C.O.) AT BASE OF STACK 12" A.F.F.
- FOR PLUMBING WORK IN THIS AREA SEE DRAWINGS P2.1 AND P2.2
- 8 PIPING TO RUN HIGH ABOVE CEILING. COORDINATE LOCATION WITH MECHANICAL, STRUCTURAL, AND ELECTRICAL TRADES.
- 9 PRIMARY AND SECONDARY ROOF DRAIN LINES TO DROP IN FURRED OUT WALL CHASE AS INDICATED.
- 10 PIPE 1/2" GAS LINE UP THRU ROOF TO RTU. EXTEND GAS UP THRU RTU BASE OR PROVIDE ROOF PENETRATION. TERMINATE GAS LINE AT RTU WITH BALL VALVE AND FLEX CONNECTOR. SEE DETAILS 2/P6.2 AND 6/P6.3
- BURIED GAS SERVICE LINE BY DOMINION ENERGY CORP. COORDINATE LOCATION OF GAS LINE WITH SITE UTILITIES CONTRACTOR.
- (12) GAS SERVICE LOCATION. METER/REGULATOR SET TO BE PROVIDED AND INSTALLED BY DOMINION ENERGY CORP. PLUMBING CONTRACTOR TO COORDINATE INSTALLATION. GENERAL CONTRACTOR TO PROVIDE 5' x 3' x 4" HIGH CONCRETE PAD FOR METER SET. REQUESTED BUILDING DELIVERY PRESSURE AT METER OUTLET = 2 PSIG. BUILDING DEMAND = 1400 MBH, 1625 CFH. SEE DETAIL 4/P6.2
- **BUILDING DOMESTIC WATER SERVICE ENTRANCE. SEE DETAIL 3/P6.1**
- PRIMARY AND SECONDARY ROOF DRAINS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION. SEE DETAIL 1/P6.2
- DOWNSPOUT NOZZLE. MOUNT 12" A.F.G. SEE DETAIL 8/P6.3
- (16) WALL PENETRATION. CAULK AND SEAL AROUND PIPE PENETRATION WITH FIBERGLASS BATT AND SILICONE SEALANT.
- 17 NUMBER INDICATES SQUARE FOOTAGE OF ROOF DRAINAGE AREA SERVED (TYP)



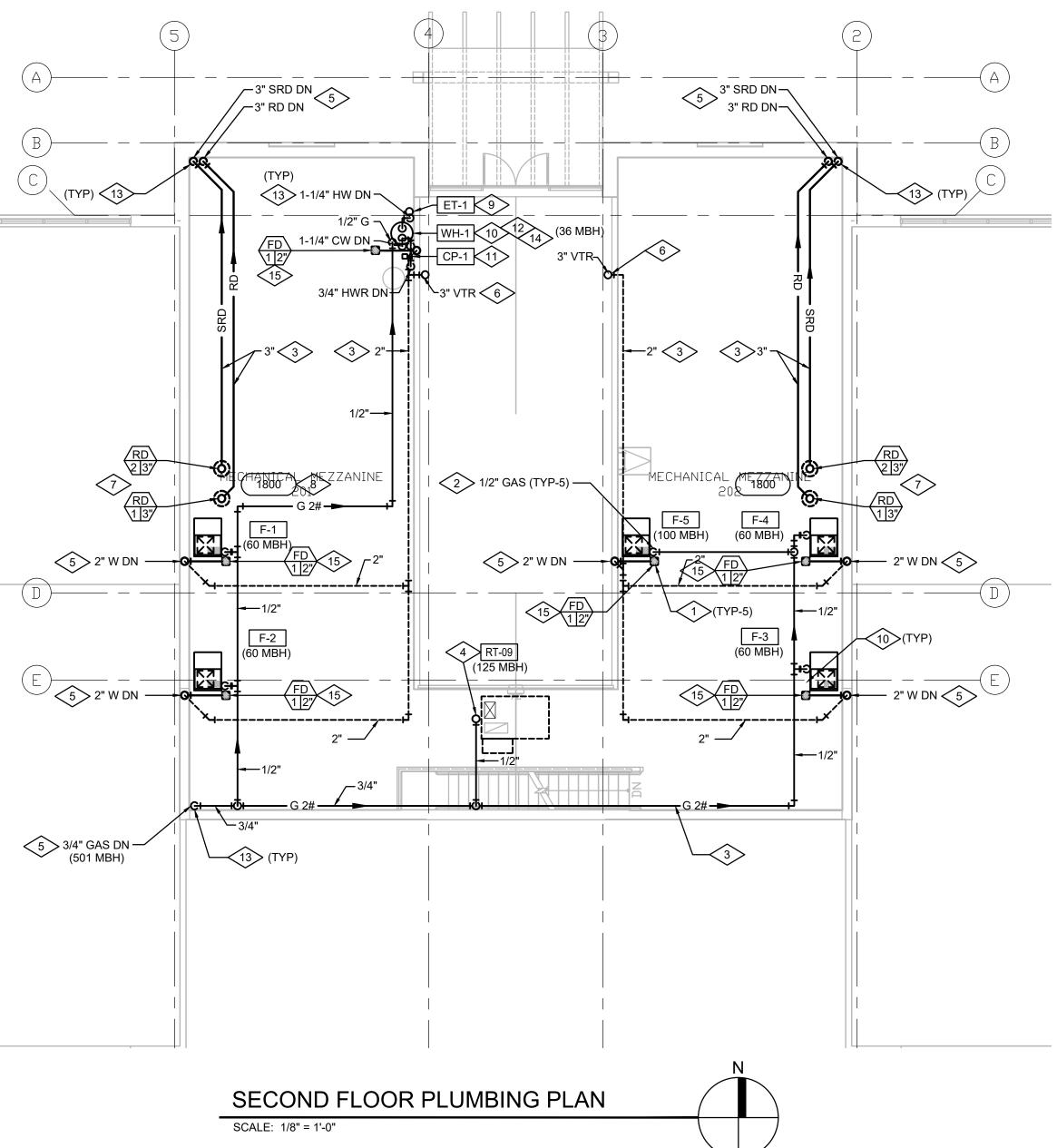
P1.1

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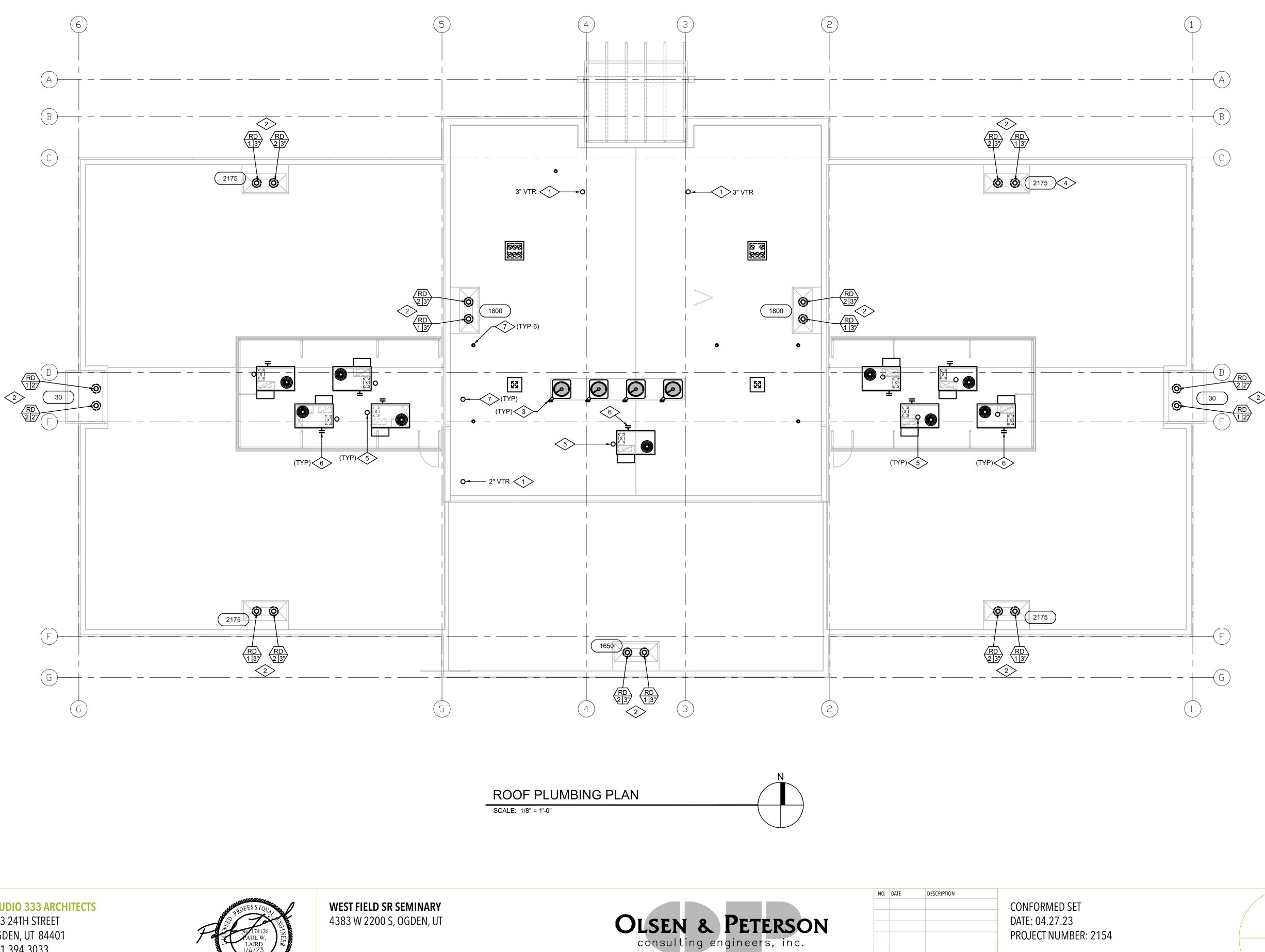
CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

-14

REFERENCE NOTES

	PIPE PRIMARY AND SECONDARY CONDENSATE DRAIN LINES FROM FURNACE AND COOLING COIL TO FLOOR DRAIN. SEE 5/P6.2
2>	PIPE 1/2" GAS LINE TO FURNACE. PROVIDE BALL VALVE AND FLEXIBLE GAS CONNECTOR AT POINT OF CONNECTION. SEE DETAIL 6/P6.3
3>	RUN PIPING HIGH CLOSE TO STRUCTURE. COORDINATE LOCATION WITH MECHANICAL, ELECTRICAL AND FIRE PROTECTION TRADES.
4>	PIPE 1/2" GAS LINE UP THRU ROOF TO RTU. EXTEND GAS UP THRU RTU BASE OR PROVIDE ROOF PENETRATION. TERMINATE GAS LINE AT RTU WITH BALL VALVE AND FLEX CONNECTOR. SEE DETAILS 2/P6.2 AND 6/P6.3
5	FOR CONTINUATON OF PIPING SEE DRWING P1.1
	VENT THRU ROOF (VTR) SEE DETAIL3/P6.2
	PRIMARY AND SECONDARY ROOF DRAINS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION. SEE DETAIL 1/P6.2
< <u>8</u>	NUMBER INDICATES SQUARE FOOTAGE OF ROOF DRAINAGE AREA SERVED (TYP)
9	INSTALL DOMESTIC WATER EXPANSION TANK HIGH ON WALL IN THIS LOCATION.
	INSTALL GAS FIRED WATER HEATER IN THIS LOCATION. SEE DETAIL 4/P6.1
	INSTALL DOMESTIC HW CIRCULATION PUMP IN THIS LOCATION. SECURE PUMP TO WALL. SEE DETAIL 3/P6.3
12>	PROVIDE 2"DEEP ALUMINUM DRIP PAN UNDER WATER HEATER. SUPPORT WATER HEATER ABOVE DRIP WITH 1" THICK NEOPRENE VIBRATION ISOLATORS. PIPE DRIP PAN OUTLET TO FLOOR DRAIN.
13	ALL PIPE THRU FLOOR PENETRATIONS SHALL BE SLEEVED AND MADE WATER TIGHT. SEE DETAIL 5/P6.3
14	PIPE WATER HEATER P&T VALVE FULL SIZE TO FLOOR DRAIN OR DRIP PAN.
<15>	INSTALL FLOOR DRAIN COMPLETE WITH WATER PROOF MEMBRANE (TYP)







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PROJECT NUMBER: 2154

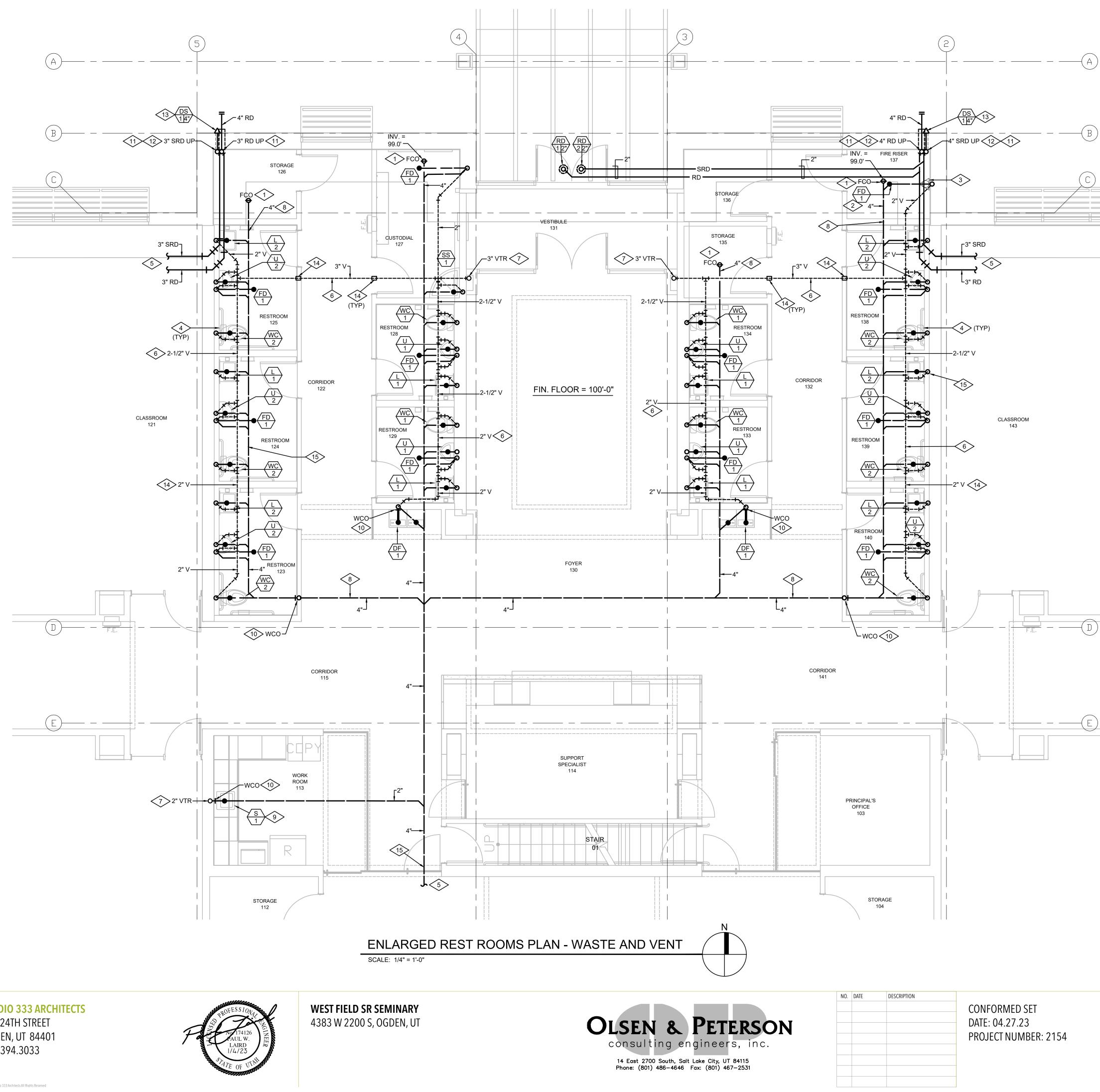


REFERENCE NOTES

- VENT THRU ROOF (VTR). SEE DETAIL 3/P6.2
- PRIMARY AND SECONDARY ROOF DRAINS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION. COORDINATE WITH GENERAL CONTRACTOR ON PLACEMENT.
- 3 MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY.
- A NUMBER INDICATES SQUARE FOOTAGE OF ROOF DRAINAGE AREA SERVED (TYP)
- 5 PIPE 1/2" GAS LINE UP THRU ROOF TO RTU. EXTEND GAS UP THRU RTU BASE OR PROVIDE ROOF PENETRATION. TERMINATE GAS LINE AT RTU WITH BALL VALVE AND FLEX CONNECTOR. SEE DETAILS 2/P6.2 AND 6/P6.3
- 6 PIPE CONDENSATE DRAIN LINE FROM ROOF TOP UNIT DRAIN PAN TO ROOF. PROVIDE 3 INCH DEEP P-TRAP. SEE DETAIL 5/P6.1
- FURNACE AND WATER HEATER CONCENTRIC ROOF KIT SHOWN FOR REFERENCE ONLY.



P1.3

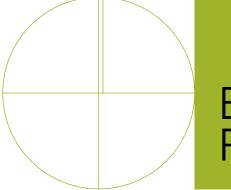




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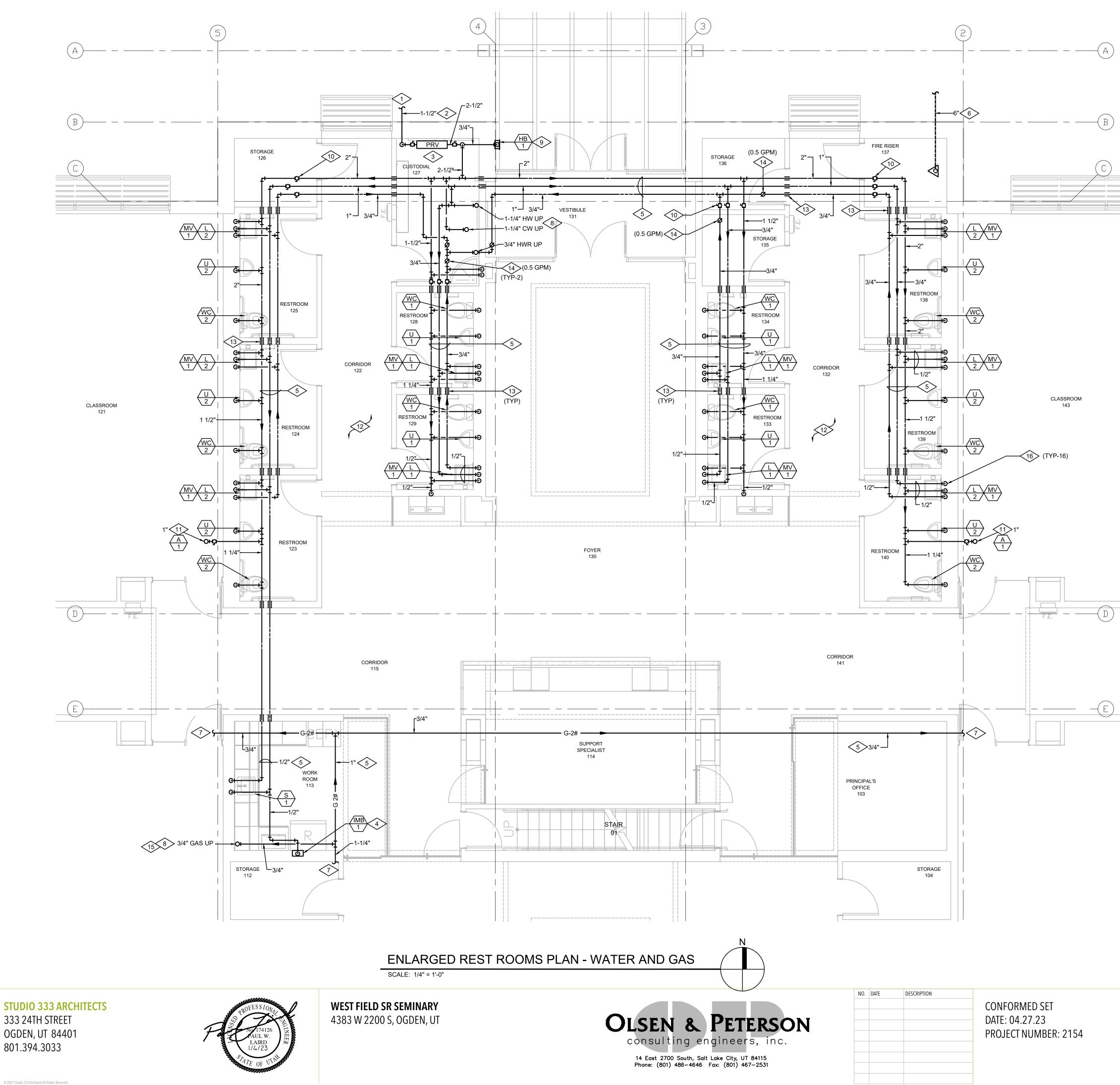
REFERENCE NOTES

- The floor cleanout (FCO). SEE DETAIL 7/P6.2.
- 2 INSTALL FLOOR DRAIN FLUSH WITH FLOOR IN THIS LOCATION. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION. (TYP)
- 3 FIRE RISER SHOWN FOR REFERENCE ONLY. COORDINATE ROOF DRAIN PIPING LOCATION WITH FIRE RISER SERVICE LINE.
- 4 INSTALL PLUMBING FIXTURES IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. INSTALL FIXTURES AND APPURTENANCES LEVEL AND PLUMB. COORDINATE LOCATION OF WALL MOUNTED PLUMBING FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS. (TYP)
- 5 FOR CONTINUATION OF PIPING SEE DRAWING P1.1.
- 6 PIPING TO RUN HIGH ABOVE CEILING. COORDINATE LOCATION WITH MECHANICAL, STRUCTURAL, AND ELECTRICAL TRADES.
- VENT THRU ROOF (VTR). SEE DETAIL 3/P6.2.
- No.
 No.</th
- (9) INSTALL SINK IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PIPE 2" WASTE AND 2" VENT LINES FROM SINK IN WALL AND CONNECT TO MAIN WASTE AND VENT LINES AS INDICATED.
- (10) WALL CLEANOUT (WCO). SEE DETAIL 6/P6.2.
- ROOF DRAIN LINES, (RD) TO DROP IN COLUMN OR WALL CHASE AS INDICATED. PROVIDE CLEANOUT (C.O.) AT BASE OF STACK 12" A.F.F.
- FOR CONTINUATION OF PIPING SEE P1.2.
- Image: Comparison of the second sec
- (14) WALL PENETRATION. CAULK AND SEAL AROUND PIPE PENETRATION WITH FIBERGLASS BATT AND SILICONE SEALANT.
- COORDINATE LOCATION OF PIPING WITH BUILDING FOOTINGS. ROUTE PIPING UNDER OR OVER FOOTINGS AS NEEDED. DO NOT SLEEVE OR RUN PIPING THROUGH FOOTINGS.



ENLARGED PLUMBING PLAN WASTE AND VENT

P2.1





14

	REFERENCE NOTES
	POINT OF CONNECTION (P.O.C.) CONNECT TO SITE UTILITY PIPING IN THIS LOCATION. MATCH PIPING SIZE AND MATERIAL OR PROVIDE COMPATIBLE TRANSITION.
<2>	PIPING TO RUN BELOW FROST LINE. COORDINATE LOCATION OF PIPING WITH STRUCTURAL FOOTINGS.
$\langle 3 \rangle$	BUILDING DOMESTIC WATER SERVICE ENTRANCE. SEE DETAIL 3/P6.1
4	INSTALL ICE MAKER BOX 24" A.F.F.
5	PIPING TO RUN HIGH ABOVE CEILING. COORDINATE LOCATION WITH MECHANICAL, STRUCTURAL, AND ELECTRICAL TRADES.
6	FIRE SERVICE LINE. SHOWN FOR REFERENCE ONLY. SEE FIRE PROTECTION DRAWINGS.
$\langle \overline{7} \rangle$	FOR CONTINUATION OF PIPING SEE DRAWING P1.1.
< <u>8</u>	3/4" GAS UP TO MECHANICAL MEZZANINE. SEE DRAWING P1.2 FOR CONTINUATION.
9>	PIPE 3/4" CW LINE DOWN IN WALL TO HYDRANT. MOUNT NON-FREEZE WALL HYDRANT 24" A.F.G.
	INSTALL ISOLATION VALVES IN EXPOSED STRUCTURE OR ABOVE CEILING. PROVIDE LOCKING CEILING DOOR OR REMOVABLE CEILING TILE FOR SERVICE ACCESS.
	INSTALL 1" DIA. WATER HAMMER ARRESTOR ABOVE ACCESSIBLE CEILING IN THIS LOCATION. PROVIDE BALL ISOLATION VALVE.
12	INSTALL PLUMBING FIXTURES LEVEL AND PLUMB IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES (TYP).
13>	WALL PENETRATION. CAULK AND SEAL AROUND PIPE PENETRATION WITH FIBERGLASS BATT AND SILICONE SEALANT. (TYP)
14>	INSTALL BALANCE VALVE IN THIS LOCATION. BALANCE WATER FLOW TO GPM INDICATED.
	FOR CONTINUATION OF PIPING SEE DRAWING P1.2

(16) INSTALL ASSE 1070 MIXING VALVE BELOW LAVATORY. SEE DETAIL 2/P6.1 (TYP ALL LAVATORIES)



EQUIPMENT	INPUT (BTU)	INPUT (CFH)	GAS CONN (IN.)	
RT-01 RT-02 RT-03 RT-04 RT-05 RT-06 RT-07 RT-08 RT-09 F-1 F-2 F-3 F-4 F-5 WH-1	$\begin{array}{c} 112,000\\ 112,000\\ 112,000\\ 112,000\\ 112,000\\ 112,000\\ 112,000\\ 112,000\\ 112,000\\ 125,000\\ 60,000\\ 60,000\\ 60,000\\ 60,000\\ 100,000\\ 36,500\\ \end{array}$	130 130 130 130 130 130 130 130 130 145 70 70 70 70 70 70 116 42	1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2" 1/2"	
SUB-TOTAL	1,397,500	1625	1 1/4" -	
TOTAL 1,397,500 1625 1 1/4"				
TOTAL DEVELOPED PIPE LENGTH = 175 FT GAS DELIVERY PRESSURE = 2 PSIG METER CAPACITY = 1625 CFH				

	PLUMBING EQUIPMENT SCHEDULE
SYMBOL	EQUIPMENT DESCRIPTION
WH-1	WATER HEATER: GAS FIRED, POWER PVC VENT, ULTRA LOW NOX, 40 GALLON STORAGE CAPACITY, 36 MBH INPUT, 36 GPH RECOVERY @ 90 DEG RISE, CERTIFIED FOR 5000 FT ALTITUDE. FURNISH COMPETE WITH T&P RELIEF VALVE AND THREADED HOSE DRAIN CONNECTION. PROVIDE 28" DIA ALUMINUM DRIP PAN WITH THREADED DRAIN OUTLET. ANCHOR WATER HEATER TO WALL WITH SEISMIC WALL STRAPS. MANUFACTURER: RHEEM MODEL: XG40T06PN36U1 ELECTRICAL: 120 VOLT, 1 PHASE BLOWER SIZE: 20" DIA X 68" HIGH WEIGHT: 160 LBS
ET-1	EXPANSION TANK: NON-ASME TYPE, 2.0 GALLON TOTAL VOLUME, 0.45 ACCEPTANCE FACTOR, 1/2" NPT CONNECTION, MAXIMUM WORKING PRESSURE = 150 PSIG, NSF 61 LISTED, MAX ALLOWABLE WORKING TEMP = 200 DEG F MANUFACTURER: AMTROL MODEL: ST-5 ELECTRICAL: NONE SIZE: 8" DIA X 12.75" HIGH OPER WEIGHT: 25 LBS
CP-1	CIRCULATION PUMP: DOMESTIC WATER, BRONZE CONSTRUCTION, STAINLESS STEEL SHAFT, INTEGRAL CHECK VALVE, 2 GPM @ 5 FT HEAD, 1/2" CONNECTIONS, FURNISH COMPLETE WITH AQUASTAT PUMP CONTROLLER SET AT 120 DEG. F. MANUFACTURER: TACO MODEL: 006-IFC ELECTRICAL: 1/25 HP 120 VOLT, 1PHASE SIZE: 2" x 6" x 7" WEIGHT: 7 LBS

BUILDING SERVICES PIPING MATERIALS LISTING AND IDENTIFICATION

POTABLE WATER PIPING SYSTEMS:

ABOVE-GRADE - COPPER PIPE AND TUBING MEETING REQUIREMENTS OF ASTM B 88, TYPE L WITH WROUGHT COPPER SWEAT FITTINGS WITH 95/5 OR 96/4 TIN-ANTIMONY SOLDER.

IDENTIFICATION: COLD WATER (CW): BLUE LETTERING ON WHITE BACKGROUND. HOT WATER (HW): RED LETTERING ON WHITE BACKGROUND.

BELOW-GRADE - HDPE SDR11 WATER PIPE 200 PSI RATED FOR POTABLE WATER SERVICE. PIPE MEETING REQUIREMENTS OF NSF 14, PS OD PE3608 160 PSI / 200 PSI NSF DR11 ASTM D-3035 AWWA C901

SANITARY WASTE AND VENT PIPING SYSTEMS

ABOVE GRADE - PVC SCHEDULE 40 SOLID-WALL ASTM D 2665, PLASTIC PIPE AND SOCKET TYPE FITTINGS, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS. JOINED USING CEMENT PRIMER MEETING REQUIREMENTS OF ASTM F 656 AND PIPE CEMENT MEETING REQUIREMENTS OF ASTM D 2564. IDENTIFICATION: GREEN LETTERING ON WHITE BACKGROUND.

BELOW GRADE - PVC SCHEDULE 40 SOLID-WALL ASTM D 2665, PLASTIC PIPE AND SOCKET TYPE FITTINGS, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS. JOINED USING CEMENT PRIMER MEETING REQUIREMENTS OF ASTM F 656 AND PIPE CEMENT MEETING REQUIREMENTS OF ASTM D 2564.

STORM DRAINAGE PIPING SYSTEMS:

ABOVE GRADE - PVC SCHEDULE 40 SOLID-WALL ASTM D 2665. PLASTIC PIPE AND SOCKET TYPE FITTINGS, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS. JOINED USING CEMENT PRIMER MEETING REQUIREMENTS OF ASTM F 656 AND PIPE CEMENT MEETING REQUIREMENTS OF ASTM D 2564.

BELOW GRADE - PVC SCHEDULE 40 SOLID-WALL ASTM D 2665, PLASTIC PIPE AND SOCKET TYPE FITTINGS, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS. JOINED USING CEMENT PRIMER MEETING REQUIREMENTS OF ASTM F 656 AND PIPE CEMENT MEETING REQUIREMENTS OF ASTM D 2564.

REFRIGERANT PIPING SYSTEMS:

HARD COPPER TUBING MEETING REQUIREMENTS OF ASTM B 280, HARD DRAWN STRAIGHT LENGTHS WITH WROUGHT COPPER BRAZED FITTINGS WITH AWS CLASSIFICATION BCUP-4 COPPER PHOSPHORUS OR AWS CLASSIFICATION BCUP-5 COPPER PHOSPHORUS RODS AND WHITE BRAZING OR HIGH QUALITY SILVER SOLDER FLUX.

IDENTIFICATION: BLACK LETTERING ON YELLOW BACKGROUND

NATURAL GAS PIPING SYSTEMS:

ABOVE GRADE - SCHEDULE 40 BLACK CARBON STEEL PIPE MEETING REQUIREMENTS OF ASTM A 53 WITH STANDARD WEIGHT BUTT WELDED STEEL FORGED WELDING TYPE FITTINGS.

IDENTIFICATION: BLACK LETTERING ON YELLOW BACKGROUND. PAINTING: ALL EXPOSED GAS PIPING ON ROOF SHALL BE PAINTED WITH TWO COATS OF YELLOW ENAMEL GRADE PAINT AND STENCILED "GAS".

PLUMBING PIPING LEGEND

DESCRIPTION	SYMBOL
WASTE	
VENT	
COLD WATER	
HOT WATER	
NATURAL GAS	G 2#
DRAIN	D
ROOF DRAIN	RD
SECONDARY ROOF DRAIN	SRD

STUDIO 333 ARCHITECTS 333 24TH STREET

OGDEN, UT 84401 801.394.3033



WEST FIELD SR SEMINARY 4383 W 2200 S, OGDEN, UT

PLUMBING FIXTURE SCHEDULE								
SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	NOTES (1)		
$\langle WC \\ 1 \rangle$	WATER CLOSET	4"	2"	1"		FLOOR MOUNTED FLUSH VALVE		
$\langle WC \\ 2 \rangle$	WATER CLOSET	4"	2"	1"		FLOOR MOUNTED - (ADA) FLUSH VALVE		
$\left\langle \begin{array}{c} L \\ 1 \end{array} \right\rangle$	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNTED		
$\begin{pmatrix} L \\ 2 \end{pmatrix}$	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	WALL MOUNTED - (ADA)		
$\left\langle \begin{array}{c} U\\ 1 \end{array} \right\rangle$	URINAL	3"	2"	3/4"		WALL MOUNTED FLUSH VALVE		
$\left\langle \begin{array}{c} U\\ 2 \end{array} \right\rangle$	URINAL	3"	2"	3/4"		WALL MOUNTED - (ADA) FLUSH VALVE		
$\left\langle \begin{array}{c} A \\ 1 \end{array} \right\rangle$	ARRESTOR			1"		WATER HAMMER ARRESTOR		
	ICE MAKER BOX			3/8"		RECESSED WALL BOX TYPE		
$\left\langle \frac{SS}{1} \right\rangle$	SERVICE SINK	3"	2"	3/4"	3/4"	FLOOR MTD, CORNER TYPE WITH WALL MOUNTED FAUCET.		
FD 1X"	FLOOR DRAIN	SEE PLANS FOR SIZE			ZE	WITH DEEP SEAL P-TRAP AND ASSE PROSET TRAP GUARD		
$\left\langle \begin{array}{c} DF\\ 1\end{array} \right\rangle$	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"		DUAL LEVEL - ELECTRIC W/ BOTTLE FILLER - (ADA) 120V /1/60 POWER		
$\left\langle \begin{array}{c} S \\ 1 \end{array} \right\rangle$	SINK	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL COUNTER MOUNTED		
HB	HOSE BIBB			3/4"		NON-FREEZE TYPE WALL MOUNTED		
$\left(\begin{array}{c} MV \\ 1 \end{array} \right)$	MIXING VALVE			3/8"	3/8"	UNDER SINK MIXING VALVE ASSE 1070 WATTS LEMM-UT-MI		
	DOWN SPOUT	SEE PLANS FOR SIZE			ZE	SEE SPECIFICATIONS		
RD 1X"	ROOF DRAIN (PRIMARY)	SEE PLANS FOR SIZE			ZE	SEE SPECIFICATIONS (2)		
RD 2X"	ROOF DRAIN (SECONDARY)	SEE PLANS FOR SIZE			ZE	SEE SPECIFICATIONS (2)		

(1) CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES WITH ABCHITECTURAL DRAWINGS PRIOR TO ROUGH IN OR INSTALLATION.

(2) COORDINATE NEW ROOF DRAIN INSTALLATION WITH ROOFING CONTRACTOR TO PROVIDE REQUIRED FLASHING.

PIPING INSULATION SCHEDULE									
	INSULATION COND	UCTIVITY	≥ NOMINAL PIPE OR TUBE SIZE, IN.						
FLUID OPERATING TEMPERATURE RANGE	CONDUCTIVITY,	MEAN RATING	< 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	≥ 8		
(°F) AND USAGE	BTU IN/ FT ² °F	TEMPERATURE, °F	INSULATION THICKNESS, IN.						
> 350	0.32 TO 0.34	250	4.5	5.0	5.0	5.0	5.0		
251 TO 350	0.29 TO 0.32	200	3.0	4.0	4.5	4.5	4.5		
201 TO 250	0.27 TO 0.30	150	2.5	2.5	2.5	3.0	3.0		
141 TO 200	0.25 TO 0.29	125	1.5	1.5	2.0	2.0	2.0		
105 TO 140	0.22 TO 0.28	100	1.0	1.0	1.5	1.5	1.5		
40 TO 104	0.21 TO 0.27	75	0.5	0.5	1	1.5	1.5		
< 40	0.20 TO 0.29	50	0.5	1.0	1.5	2.0	2.0		

TABLE APPLIES TO ALL DOMESTIC HOT AND COLD WATER SYSTEMS, STORM DRAIN AND REFRIGERANT PIPING SYSTEMS.

r										
BRANCH WATER LINE SCHEDULE										
	FIXTURE UNITS	TOTAL QUANTITY OF FIXTURES SERVED BY A GIVEN PIPE SIZE								
FIXTURE		1/2"	3/4"	1"	1 1/4"	1-1/2"	2"			
WATER CLOSET	5	1	2	4	6	10	20			
LAVATORY	1.5	2	4	6	8	15	50			
BREAK ROOM SINK	2	1	3	5	7	15	50			
SERVICE SINK	4		1	2	3	7	25			
DRINKING FOUNTAIN	1	2	6	10	15	30				
HOSE BIBB	3		1	3	5	10	33			
TOTAL FIXTURE UNITS SERVED BY PIPE SIZE	2	6	10	15	30	100				

(1) MINIMUM PIPE SIZE TO ANY FIXTURE TO BE 1/2". WHERE PIPE SIZE IS SHOWN ON

DRAWINGS, IT SHALL BE FOLLOWED. (2) WATER SUPPLY FIXTURE UNITS: 120



NO.	DATE	DESCRIPTION
04	03.31.23	PERMIT REVIEW COMMENTS

CONFORMED SET DATE: 04.27.23 PROJECT NUMBER: 2154

- 1.

GENERAL PLUMBING NOTES:

CODE COMPLIANCE: ALL PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL FUEL GAS CODE (IFGC) AND NATIONAL ELECTRICAL CODE (NEC) INCLUDING ALL STATE AND LOCAL AMENDMENTS AND LIFE SAFETY CODES ENFORCED OR CURRENTLY IMPLEMENTED BY THE BUILDING AUTHORITY HAVING JURISDICTION IN WHICH THE PROJECT RESIDES.

B. COORDINATION PROCEDURES: CONTRACTOR SHALL COORDINATE ALL PLUMBING (PL) WORK WITH THE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL (M), FIRE PROTECTION (FP) AND ELECTRICAL TRADES OF THIS PROJECT. REFER TO DRAWINGS, SPECIFICATIONS, SUBMITTALS AND SHOP DRAWINGS OF THE VARIOUS TRADES FOR PROJECT SPECIFIC REQUIREMENTS FOR COORDINATION PURPOSES.

C. DRAWINGS: DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED. PIPE ROUTING, PLUMBING EQUIPMENT AND FIXTURE LOCATIONS INDICATED ON THE DRAWINGS IS APPROXIMATE. NO ATTEMPT HAS BEEN MADE TO SHOW ALL PLUMBING OFFSETS, EQUIPMENT AND DEVICES. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL PLUMBING EQUIPMENT AND FIXTURES REQUIRED PRIOR TO BIDDING. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND TRANSITIONS AS NEEDED TO FACILITATE INSTALLATION OF THE PLUMBING SYSTEMS IN HARMONY WITH THE OTHER RESPECTIVE TRADES OF THE PROJECT.

D. EQUIPMENT SELECTIONS: ALL PROJECT EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE SELECTED TO MEET AND OPERATE AT THE CAPACITIES INDICATED IN THE CONTRACT DOCUMENTS AT THE JOB SITE CONDITIONS. JOB SITE CONDITIONS INCLUDE ELEVATION ABOVE SEA LEVEL, AMBIENT SUMMER AND WINTER DRY BULB/WET BULB TEMPERATURES, WIND DIRECTION AND PROPERTY LINES.

E. SUBMITTALS: PRODUCT DATA FOR ALL PLUMBING EQUIPMENT AND MATERIALS TO BE PROVIDED BY THE PLUMBING CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AS PART OF THE SUBMITTAL PROCESS IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO ORDERING, PURCHASING OR INSTALLATION.

WORKMANSHIP: ALL PLUMBING WORK TO BE INSTALLED IN A PROFESSIONAL AND WORKMANLIKE MANNER. INSTALL ALL PRODUCTS AND MATERIALS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND CONSTRUCTION INDUSTRY STANDARDS.

G. INVERTS: ALL INVERT PIPE ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED OFF OF A FINISHED FLOOR ELEVATION OF 100'-0". THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL AND SITE CIVIL CONTRACTOR FOR PIPE CONNECTION LOCATIONS. PLUMBING CONTRACTOR SHALL CONNECT TO THE SITE UTILITY PIPING; MATCHING PIPING SIZE AND MATERIAL OR PROVIDING COMPATIBLE TRANSITIONS.

H. SEISMIC CONDITIONS: ALL PLUMBING PIPING AND EQUIPMENT INSTALLED SHALL BE SEISMICALLY BRACED OR RESTRAINED IN COMPLIANCE WITH REQUIREMENTS IN THE IBC. PROVIDE VIBRATION ISOLATION AND SEISMIC-RESTRAINT DEVICES, RESTRAINTS AND SUPPORTS AS REQUIRED. PROVIDE AND SUBMIT SEISMIC RESTRAINT CALCULATIONS, DETAILS, DESIGN CRITERIA AND ANALYSIS DATA SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

WARRANTY: THE CONTRACTOR SHALL WARRANT TO THE OWNER THAT ALL PLUMBING MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT WILL BE NEW AND OF GOOD QUALITY, UNLESS OTHERWISE REQUIRED OR PERMITTED BY THE CONTRACT DOCUMENTS, AND THAT THE WORK WILL BE FREE FROM DEFECTS NOT INHERENT IN THE QUALITY REQUIRED OR PERMITTED; AND THAT THE WORK WILL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. WARRANTY PERIOD FOR THIS WORK SHALL EXTEND FOR ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION.

J. CHANGES: IF CONCEALED OR UNKNOWN PHYSICAL CONDITIONS ARE ENCOUNTERED AT THE SITE THAT DIFFER MATERIALLY FROM THOSE INDICATED IN THE CONTRACT DOCUMENTS OR FROM THOSE CONDITIONS ORDINARILY FOUND TO EXIST, THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER OR ARCHITECT OF THOSE CONDITIONS. THE CONTRACTOR SHALL BE INSTRUCTED AND DIRECTED ON HOW TO PROCEED WITH ANY REQUIRED CHANGES. THE CONTRACT SUM AND CONTRACT TIME SHALL BE SUBJECT TO EQUITABLE ADJUSTMENT FOR CHANGES TO THE CONTRACT DOCUMENTS FOR SUCH CHANGES . SHOULD THE CONTRACTOR PROCEED WITH THE WORK WITHOUT INSTRUCTION, NOTIFICATION OF CHANGE OR AN APPROVED CHANGE ORDER; HE DOES SO AT HIS OWN FINANCIAL RISK.

K. EXISTING CONDITIONS: PRIOR TO BIDDING OR BEGINNING THE WORK THE CONTRACTOR SHALL CAREFULLY EXAMINE THE BUILDING SITE AND COMPARE THE CONTRACT DOCUMENTS WITH EXISTING CONDITIONS. ACCEPTANCE OF THE CONTRACT IS ACKNOWLEDGMENT BY THE CONTRACTOR THAT HE HAS VISITED THE SITE AND IS AWARE AND ACCEPTING OF THE EXISTING CONDITIONS.

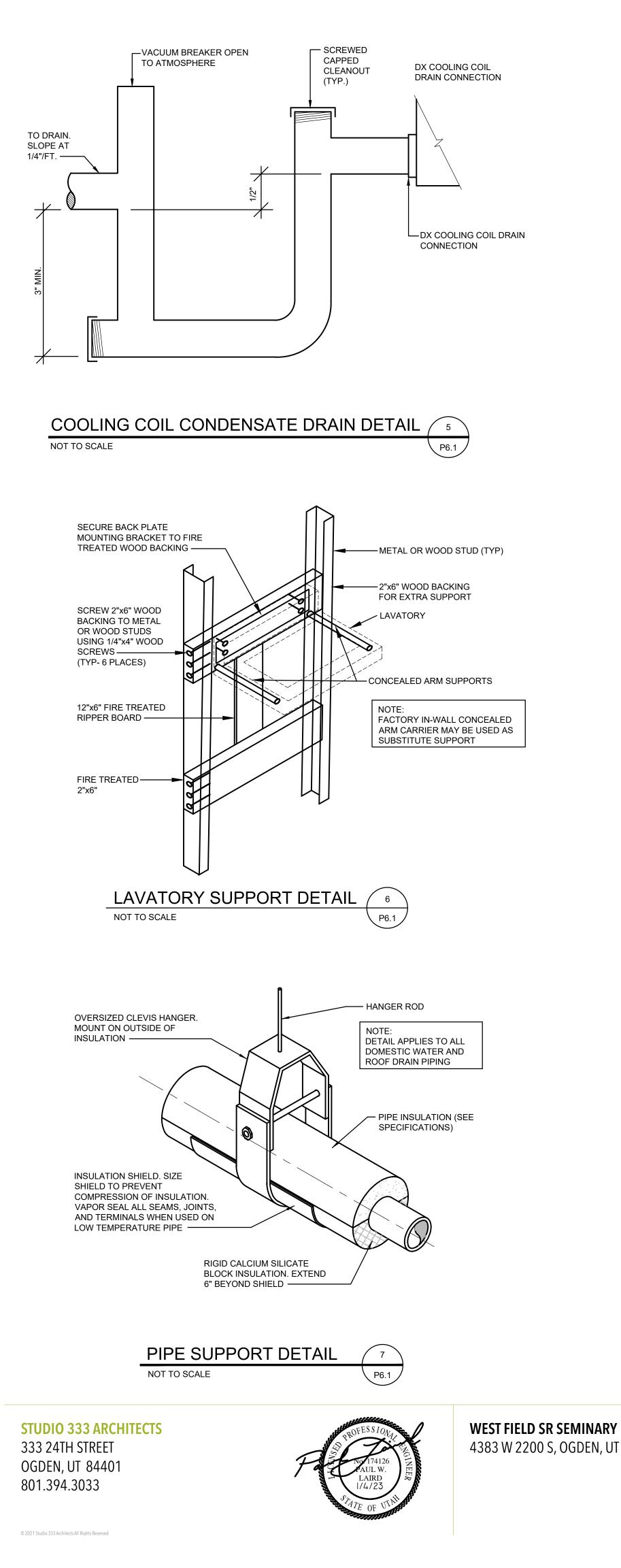
L. CLEANUP: DURING THE CONSTRUCTION AND UPON COMPLETION OF THE WORK, THE PLUMBING CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE ALL UNUSED MATERIALS, EQUIPMENT, PACKAGING AND DEBRIS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. ALL UNUSED MATERIALS, EQUIPMENT, PACKAGING AND DEBRIS NOT ECONOMICALLY RECOVERABLE SHALL BE REMOVED, TRANSPORTED AND LEGALLY DISPOSED OF OFF-SITE.

M. UTILITY INTERRUPTIONS: EXISTING PLUMBING UTILITIES SHALL REMAIN IN SERVICE EXCEPT AS REQUIRED FOR SCHEDULED INTERRUPTIONS. INTERRUPTIONS OF SERVICE OR UTILITIES SHALL BE SCHEDULED WITH THE OWNER AND ARCHITECT AT LEAST TWO WEEKS IN ADVANCE.

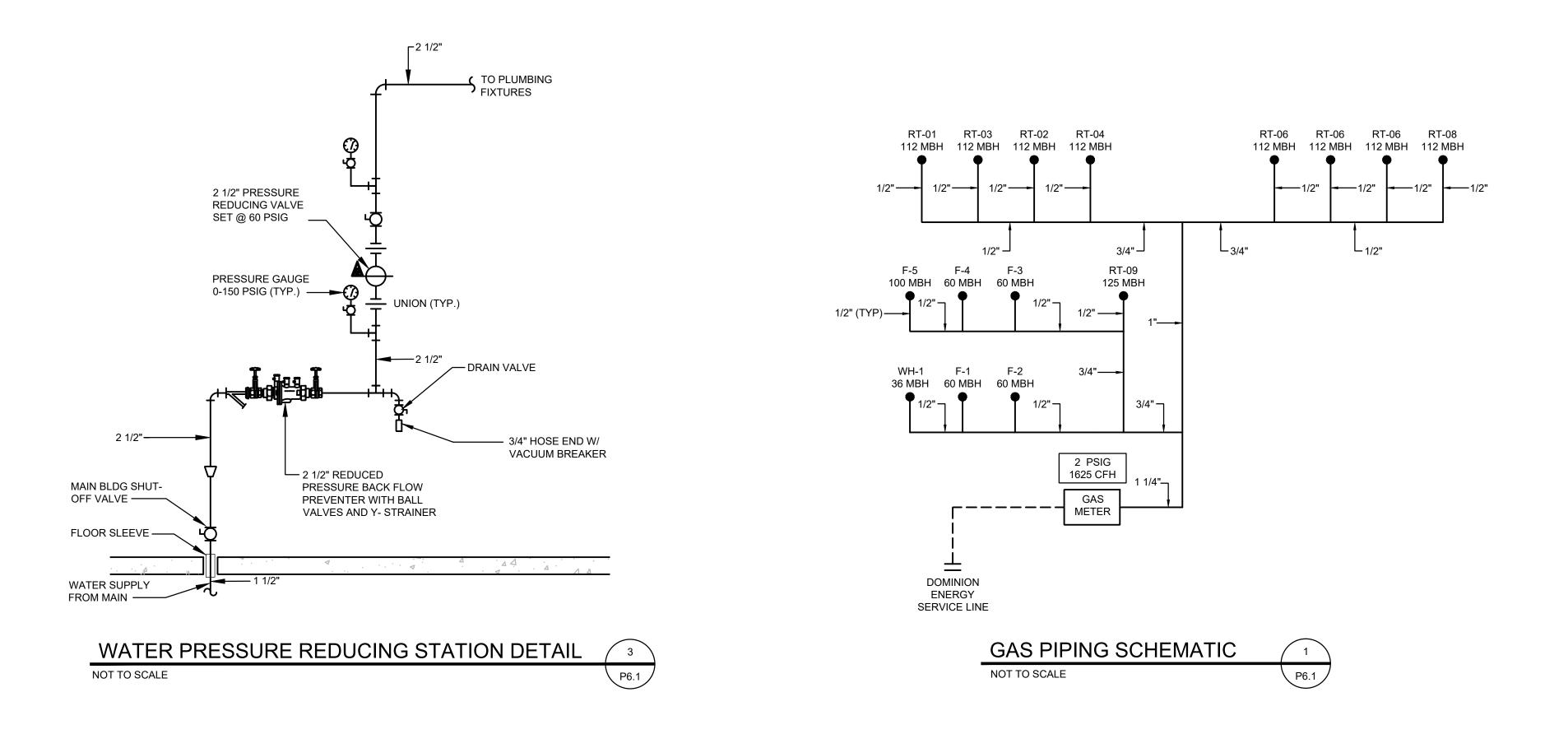
N. TIME IS OF THE ESSENCE: THE CONTRACTOR SHALL COMMENCE WORK UNDER THIS CONTRACT UPON RECEIPT OF THE OWNER'S WRITTEN NOTICE TO TO PROCEED. THE CONTRACTOR SHALL COMPLETE THE WORK AND HAVE IT READY FOR SUBSTANTIAL COMPLETION INSPECTION BY THE DATE NOTED IN THE CONTRACT.

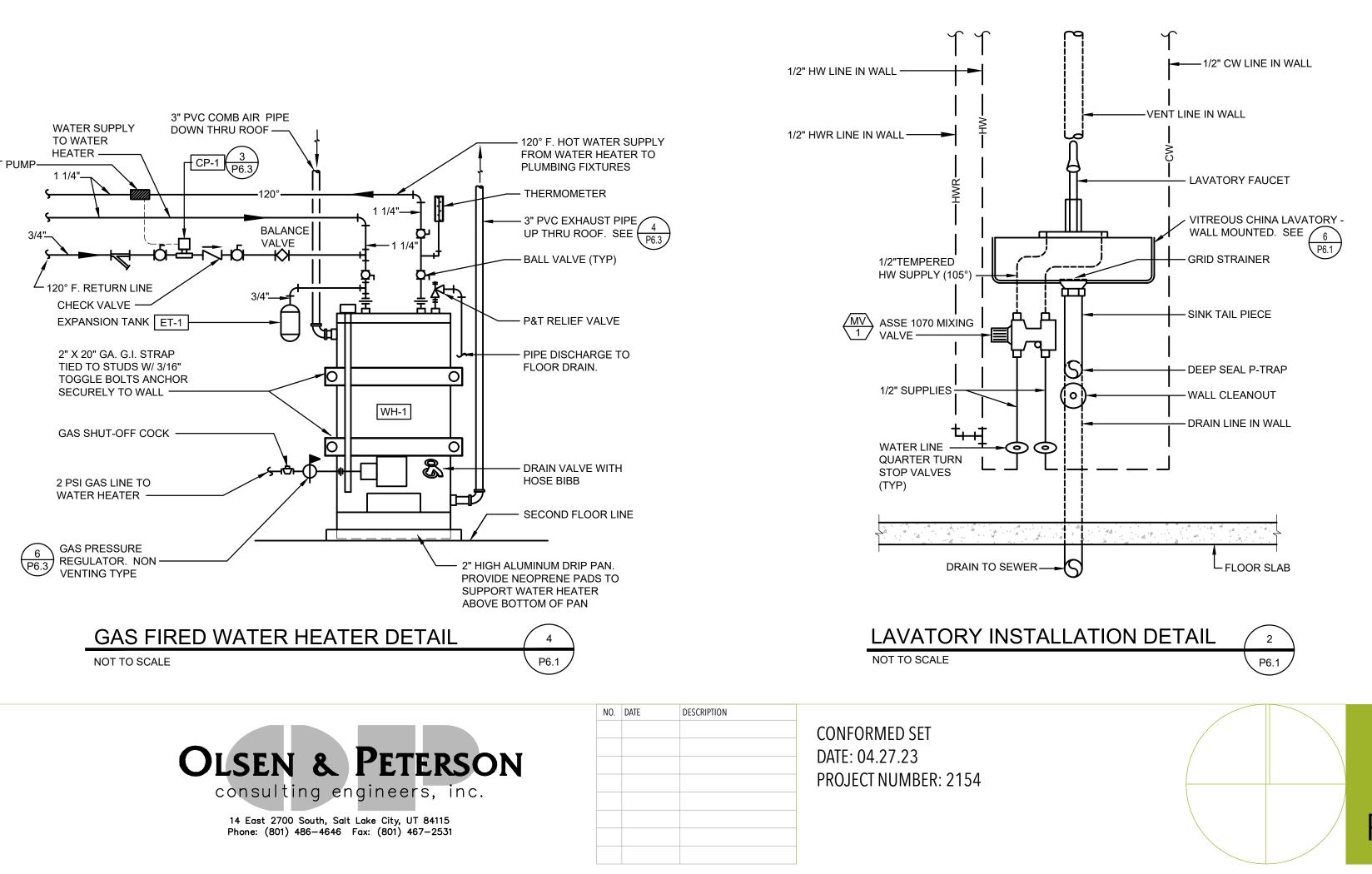
PLUMBING SCHEDULES

P5.1



AQUASTAT PUMP-CONTROL







PLUMBING DETAILS

P6.1