GENERAL STRUCTURAL NOTES

- submitted to the structural engineer prior to use.
- Follow all the manufacturer's recommendations and certification testing reports for anchor installation.
 See specific anchors below for more information.
- d. No anchor shall be installed within 1.5 anchor rod diameters of an abandoned hole that has been filled with non-shrink grout; increase distance to 3 anchor rod diameters when the abandoned hole has not been filled.

2. Adhesive Anchors

- a. For anchors in concrete, the adhesives shall be divided into two groups: Standard Adhesives and High Strength Adhesives. Standard adhesives can be used in general applications when details reference the "Standard Adhesive Embedment Schedule" in drawings. High Strength adhesive groups will be specified for the particular application in the drawings and details. When a High Strength Adhesive is specified, the contractor has the option to use any of the adhesives in the High Strength group. When a Standard Adhesive is specified, the contractor has the option to use any of the adhesives in either group. See below for the acceptable adhesives in each group.
- i. Standard Adhesive Group for anchors in concrete includes the following adhesives:
- 1. SET-XP (ICC-ES ESR-2508) by Simpson Strong-Tie
- 2. Pure 50+ (ICC-ES ESR-3576) by Dewalt
- AC100+ Gold (ICC-ES ESR-2582) by Dewalt
 HIT-RE 100 (ICC-ES ESR-3829) by Hilti, Inc.
- ii. High Strength Adhesive Group for anchors in concrete includes the following adhesives:
- 1. SET-3G (ICC-ES ESR-4057) by Simpson Strong-Tie
- 2. Pure 110+ (ICC-ES ESR-3298) by Dewalt
- AC200+ (ICC-ES ESR-4027) by Dewalt
 HIT-RE 500-V3 (ICC-ES ESR-3814) by Hilti Inc.
- 4. HIT-RE 500-V3 (ICC-ES ESR-3814) by Hilti Inc.
 5. HIT-HY 200 (ICC-ES ESR-3187) by Hilti Inc.
- b. Adhesive shall be within the manufacturer's recommended lifetime and prior to expiration date. Do not use adhesive that has not been stored per manufacturer's recommendations or may have experienced freeze thaw cycles or extreme heat.
- c. Do not install adhesive anchor in wet or damp hole unless product is approved for such conditions without strength reduction. Do not install adhesive anchors if concrete temperature is below 50-degree F unless adhesive is approved for lower temperature without strength reduction. Refer to manufacturer's published installation instructions.
- d. Follow all the manufacturer's recommendations and certification testing reports regarding hole cleaning prior to adhesive installation. All holes shall be drilled with ANSI standard bits designed for concrete. Diamond core drilled holes are not allowed unless indicated in specific details or approved by the structural engineer prior to use.

3. Mechanical Anchors

a. For concrete, the mechanical anchor shall be Kwik Bolt TZ2 (ICC-ES ESR-4266) by Hilti Inc., Strong-Bolt 2 (ICC-ES ESR-3037) by Simpson Strong-Tie Inc. or Power-Stud+ SD2 (ICC-ES ESR-2502) by Dewalt.

4. Screw Anchors

a. For concrete, the screw anchors shall be Titen HD (ICC-ES ESR-2713 for concrete only) by Simpson Strong-Tie, or Screw-Bolt + (ICC-ER ESR-3889 for concrete only) by DeWalt or Kwik HUS-EZ (ICC-ES ESR-3027 for concrete only) by Hilti Inc.

5. Powder Actuated Fasteners

a. For fasteners driven into steel (except at metal decks), concrete. or concrete over metal deck, the fastener shall be X-U P8 TH Universal Knurled Shank Fastener (ICC-ES ESR-2269) by Hilti Inc., PDPA (ICC-ES ESR-2138) by Simpson Strong-Tie Inc. or 8mm Head Spiral CSI Drive Pin (ICC-ES ESR-2024) by Dewalt.

WOOD

1. Materials:

- a. Dimensional Lumber
- i. All dimensional lumber shall be #2 Douglas Fir-Larch or better unless noted otherwise.b. Engineered Lumber
- i. Engineered lumber shall be provided by manufacturer of the products specified on these structural
- drawings. If an alternative manufacturer is proposed, the contractor shall submit a revised
- engineered lumber list, prior to construction, that includes the following information:
- Specified lumber product as indicated on these structural drawings
 Proposed substitution lumber product
- 3. Documentation that includes a comparison of the section properties and material strengths of the proposed substitution lumber product compared to that of the specified lumber product.
- ii. Laminated Veneer Lumber (LVL) shall be Micro-Lam 1.9E by Trus-Joist Corporation, Versa-Lam 2.0E Boise Cascade Corporation, RedLam 2.0E by RedBuilt, SolidStart LVL 2.0E by LP Corporation
- or RigidLam 2.0E by Roseburg or an approved equal.

 Rimboard shall be TimberStrand LSL Rim Board by Trus-Toist Corporation
- iii. Rimboard shall be TimberStrand LSL Rim Board by Trus-Joist Corporation, Versa-Rim by Boise Cascade Corporation, SolidStart LSL by LP Corporation, LSL or LVL Rim Board by RedBuilt or OSB RigidRim RimBoard by Roseburg (Rimboard shall be 1.1/8" thick, minimum), Rimboard LSL by RedBuilt or an approved equal.
- iv. All required blocking, bridging, and bracing shall be provided by joist manufacturer and installed by contractor. All penetrations through the joists shall be done per manufacturers' recommendations and requirements.
- c. Sheathing
- Wood sheathing shall meet the minimum performance criteria given in APA PRP-108, Performance Standards and Policies for Structural-Use Panels, Form E445, Voluntary Product Standard PS 1 & PS 2 and Performance Standard for Wood-Based Structural-Use Panels, Form S350, and Structural Plywood, Form H860. Panels shall be unsanded plywood or oriented strand board (OSB) and shall be interior grade with exterior glue and have the minimum following thickness and span rating indicated in the "Sheathing Schedule at Roof and Floor" in drawings.

in the "Sheathing d. Fasteners

- i. General framing and carpentry shall be connected as per "Minimum Nailing Schedule" in drawings unless noted otherwise.
- ii. All fasteners, including nails, for preservative-treated shall be hot-dipped zinc-coated galvanized steel or stainless steel.
- iii. Bolts for general wood to wood connections shall be ASTM A307A or A36 with ASTM A563A hex nuts and ATSM F844 washers, Grade A, unless noted otherwise.

e. Framing connectors:

- i. All framing anchors, connectors, post caps, hold downs, column bases, joist hangers, etc. shall be provided by Simpson Strong-Tie as indicated on these plans. If the contractor elects to substitute for another manufacturer, the contractor shall submit a revised connector list, prior to construction, that includes the following information:
- includes the following information:1. Specified connector indicated on these plans
- 2. Requested substitution connector
- 3. Allowable capacity of the requested substitution connector
- 2. All wood (with the exception of engineered lumber) in contact with concrete, masonry or soil shall be pressure treated.
- 3. At floor framing, provide approved bridging at 8'-0" o.c. maximum between joist end supports for dimensional lumber members with a nominal depth-to-thickness ratio exceeding 6 to 1. Bridging shall consist of not less than full-depth solid blocking, 1" x 3" diagonal lumber with double nailing at each end, equivalent metal bracing or equal rigidity, or other approved bridging.
- 4. Built-up beams and columns shall be constructed as per "Built-up Wood Member Detail" in drawings unless noted otherwise.
- 5. All walls shall have a minimum of two top plates. Splices in top plates shall be staggered a minimum of 4 ft from the nearest splice in adjoining top plate.

PREFABRICATED METAL PLATE WOOD TRUSSES

- 1. The Prefabricated metal plate wood trusses shall be designed, signed, and sealed by a Professional Engineer registered in the same state as the project location. They shall be designed to support the concentrated and other distributed loads as shown on the framing plans in addition to the following uniform loads:
- a. Dead Load (Top Chord) = 10 psf
 b. Dead Load (Bottom Chord) = 10 psf
 c. Snow Load (Top Chord) = 28 psf

Coordinate the design with all mechanical equipment, fire sprinkling systems and hanging walls supported by the trusses. Provide extra trusses where required.

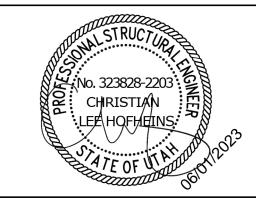
48 psf Total Load

- 2. Design all wood trusses and bearing attachments for wind uplift. Assume a dead load of 8 psf to resist uplift.
- 3. Where the parapet is required to be built into the truss profile, design the parapet for an ultimate wind load of 50 psf in either direction.
- 4. Refer to architectural drawings for truss profile. Detailing and shop drawing production for prefab metal plate wood trusses will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevation and slopes are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural drawings. Coordinate roof slope with architectural roof plan, sections, and elevations.
- 5. All truss-to-truss connections shall be designed and provided by the truss manufacturer.
- 6. Design, handling, erection, and permanent bracing of metal plate connected wood trusses shall be in accordance with ANSI/TPI-1, National Design Standard for Metal Plated Connected Wood Truss Construction.
- 7. Steel Connector Plates: All steel gusset plates shall be galvanized and shall be approved by the "Research Committee for the International Code Council". Submit a copy of the ICC Report for the connector plate used. Values established by this committee must be indicated on the shop drawings.
- a. Stress increases for steel connector plate values for duration of load are not allowed.
- b. The minimum size for any connector shall be 8 square inches (not required at truss blocking).
 c. All steel gusset plates shall be located on the joint as the stresses require and shall provide a minimum bite of 2.1/2" length on all tension members (not required at truss blocking).
- d. All steel plate dimensions shall be increased by 10% above that required by analysis.
- e. Plates shall be pressed or rolled into member to obtain full penetration without crushing the outer surfaces of wood.
- 8. No wane, knots, skips, or other defects shall occur in the plated contact area or scarfed area of web members. Plates shall be centered with one required each side of wood truss
- 9. The trusses shall be handled and stored in a manner to prevent moisture from being absorbed by the wood.
- 10. Requirements for truss stability and erection shall comply with the Truss Plate Institute publications entitled "Commentary and Recommendations for Bracing Wood Trusses" and "Commentary and Recommendations for Handling and Erecting Wood Trusses." The contractor shall have copies of these publications on site and shall be familiar with their contents.
- 11. Shop Drawings: Complete calculations and shop drawings indicating all member forces, stresses, duration factors, lumber grades, dimensions, truss to truss connections, steel truss plate sizes and locations shall be submitted and reviewed by the engineer before fabrication. Each connector shall be dimensioned on the shop drawings as to its exact location at the joint.



Revision Schedule

Description Date





Project for:

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

West Haven Seminary

> 2535 West Wilson Lane West Haven, Utah

Project Number: 230089

05/01/2023

Property Number:

GENERAL STRUCTURAL NOTES

S-002

501-8963

REQUIREMENTS FOR SPECIAL INSPECTION, MATERIAL TESTING, AND STRUCTURAL OBSERVATION

STATEMENT OF SPECIAL INSPECTION AND QUALITY ASSURANCE Special inspection and quality assurance (including structural testing), as required by section 1704 and 1705 of the 2018 IBC, shall be provided by an independent agency employed by the owner for the items in this section and other areas of the approved construction documents, unless waived by the building official. The names and credentials of the Special Inspectors to be used shall be submitted to the Building Official for approval. Responsibilities of the Special Inspector Special Inspector shall review all work listed in the special inspection schedules herein for conformance with the approved construction plans, specifications and 2018 IBC. Testing and inspection reports shall be sent on a weekly basis to the architect, engineer, building official and contractor for review. All items not in compliance shall be brought to the immediate attention of the contractor for correction, and if uncorrected, to the architect, engineer and building official. Once corrections have been made by the contractor, the special inspector shall submit a final signed report to the building official stating that the work requiring special inspection was, to the best of the special inspector's knowledge, in conformance with the approved construction plans, specifications and 2018 IBC. Responsibilities of the Contractor The contractor shall submit a written statement of responsibility to the owner and the building official prior to the commencement of work in accordance with 2018 IBC section 1704.4. This statement shall indicate that the contractor will coordinate and cooperate with the required inspections contained herein. The contractor shall notify the designated special inspector that work is ready for inspection at least 24 hours before said inspection is required.

All work requiring special inspection shall remain open and accessible until it has been observed by the special inspector and deemed acceptable through inspection report.

Special inspection during fabrication is not required if the fabricator is registered and

approved by the authority having jurisdiction to perform such work without special inspection. Upon completion of fabrication, the approved fabricator shall submit a

The contractor shall be responsible for their own quality control including materials,

certificate of compliance for submittal to the building official.

SOILS CONSTRUCTION INSPECTIONS

Soils (2018 IBC Section 1705.6)					
ITEM FOR VERIFICATION & INSPECTION	INSPECTION F	REQUENCY	COMMENTS		
TIEW FOR VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC X - X	COMMENTS		
Site Preparation	-	x	Verify that the site has been prepared in accordance with the soils report prior to placement of prepared fill.		
Fill Material	x	-	Verify that the material being used, the maximum lift thickness and the in-place dry density of the compacted fill material comply with the soils report during placement and compaction of the fill material during placement and compaction.		
Continuous Footing Backfill: at least one test for each 40 linear feet or less of wall length, but no fewer than 2 tests.	-	х	At each compacted backfill layer.		
Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.	-	х	At each compacted backfill layer.		
See specifications for further requirements.	-	-			

CONCRETE CONSTRUCTION INSPECTIONS Concrete (2018 IBC Section 1705.3, Table 1705.3, and Section 1705.12) The following concrete elements

require special inspection:
All concrete footings, Exterior concrete footings only, All concrete walls, including foundation walls, Concrete shear walls,
Interior concrete slab-on-grade, Concrete fill over metal deck, Concrete tilt-up panels, Concrete grade beams, Concrete

columns/piers, ICF Walls.		,	ete tiit up pariets, contrete grade beams, contrete
ITEM FOR VERIFICATION & INSPECTION	INSPECTION F	REQUENCY	COMMENTS
TIEW FOR VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC	COMMENTS
Protection of concrete during cold and hot weather	-	X	
Verify materials used including use of the required mix design	ı	X	Verify mix design meets strength and exposure requirements listed on General Structural Notes
Formwork	-	X	Verify shape, location and member dimensions
Bolts installed in concrete	х	-	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used. Prior to and during concrete placement.
Embeds and Inserts installed in concrete	X	_	Prior to and during concrete placement.
Concrete reinforcing steel placement	-	x	Verify that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report. Certified mill test reports shall be provided for each shipment of ASTM A 615 prior to concrete placement.
Concrete placement and samples	X	-	Cylinders, slump, temperature and air-entrainment shall be done for every 150 cubic yards or each day's production if the day's production is less than 150 cubic yards nor less than once for each 5000 sq. ft of surface area for slabs and walls.
See specifications for further concrete testing requirements.	-	-	

STEEL BOLTED CONSTRUCTION INSPECTIONS

Where special inspections are listed under "Random Basis", special inspection of elements and items shall be performed on a random basis. Operations need not be delayed pending these inspections. Where special inspection items are listed under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based on the task listed below.

High Strength holted connections (2018 IBC section 1705.2.1, section 1705.12.1 and section 1705.13.1)

High Strength bolted connections (2	2018 IBC section 1705.2.1	.1, section 1705.12.1 and section 1	705.13.1
and AISC 360-16 Chapter N and AISC	C 341-16 Chapter J)		
	INSPECTION DLAN		

		INSPECTION PLAN			
	ITEM FOR VERIFICATION & INSPECTION	Every	Random	COMMENTS	
		Element	Basis		
	Inspection Tasks Prior to Bolting				
	Manufacturer's certifications available for fastener materials	x	•		
	Fasteners	-	X	Marked in accordance with ASTM requirements	
	Proper fasteners selected for the joint detail	-	Х	Including grade, type, bolt length if threads are to be excluded from shear plane.	

Proper bolting procedure selected for joint detail	-	X	
Connecting elements	-	х	Including the appropriate faying surfact condition and hole preparation, if specified, meaning applicable requirements
Proper storage	-	X	Storage provided for bolts, nuts, washers an other fastener components
Inspection Tasks During Bolting			
Fastener assemblies, of suitable condition	-	х	Verify that fasteners placed in all holes an washers (if required) are positioned as required
Joint	-	Х	Verify that joint brought to the snug-tight condition (min) unless noted otherwise.
Fastener component	-	Х	Verify that fastener component not turned by th wrench prevented from rotating
Pretensioned Fasteners	-	х	Verify that pretensioned fasteners ar pretensioned in accordance with the RCS Specification, progressing systematically from the most rigid point toward the free edges (No required if only snug-tight joints are specified per [Section N5.6(1) of AISC 360-16]; Not required for pretensioned joints using turn-of-the-nut method with match-marking, direct-tension-indicators of twist-off type tension control bolt methods)

STEEL WELDED CONSTRUCTION INSPECTIONS

Definition of Terms

Where special inspections are listed under "Random Basis", special inspection of elements and items shall be performed on a random basis. Operations need not be delayed pending these inspections. Where special inspection items are listed under "Every Element", special inspection shall be performed for each element, joint, or member, as applicable based on the task listed below.

Structural Welding (2018 IBC section 1705.2 and section 1705.12.1 and section 1705.13.1 and AISC 360-16 Chapter N and AISC 341-16 Chapter J)

To chapter it and those of the to chap				
	INSPECTION PLAN			
ITEM FOR VERIFICATION & INSPECTION	Every	Random	COMMENTS	
	Element	Basis		
Inspection Tasks Prior to Welding				
Welding procedures specifications and manufacturer certifications for welding consumables shall be available	x	-	Welding procedures shall be submitted to the Engineer of Record for review.	
Material identification (type/grade)	-	х		
Welder identification system	-	х	Verify there is a system in place to identify the welder who has welded a joint or member.	
Configuration and finish of access holes	-	X		
Check welding equipment	-	х		
Inspection Tasks During Welding				
Use of qualified welders	-	X		
Control and handling of welding consumables	-	х	Including packaging and exposure control	
Cracked tack welds	-	x	Verify no welding over cracked tack welds.	
Environmental conditions	-	Х	Including wind speed within limits and precipitation and temperature	
WPS followed	-	x	Including settings on welding equipment, travel speed, selected welding materials, shielding gas type/flow rate, preheat applied, interpass temperature (min./max.) maintained, proper position (F, V, H, OH)	
Welding techniques	-	х	Including interpass and final cleaning, each pass within profile limitations, each pass meets quality requirements	
Inspection Tasks After Welding				
Welds cleaned	-	х		
Size, length and location of welds	Х	-		
Ultrasonic testing (UT) for complete- joint-penetration (CJP) groove welds, partial penetration groove welds when used in column splices, and welds subject to fatigue	-	x	Perform UT on 10% of welds subject to transversely applied tension loading in butt, T-and corner joints, in material 5/16" thick or greater. For materials less than 5/16" thick, ultrasonic testing is not required. The UT rate must be increased to 100% if the rejection rate exceeds 5% of the welds tested. See Sections N5.5d and N5.5f for more information. (Engineers Note: Use this row and delete the next row if you are a Risk Category II building)	

WOOD CONSTRUCTION INSPECTIONS

ITEM FOR VERIFICATION &	INSPECTION FRI	EQUENCY	COMMENTS
INSPECTION	CONTINUOUS	PERIODIC	
Prefabricated metal plate wood	trusses (2018	IBC Sectio	ns 1704.2.5, 1705.5.2, 1705.11.1, and
1705.12.2)			
Shop fabrication of trusses	-	x	Verify that detailed fabrication and quality control procedures exist that provide a basis of inspection control of the workmanship and the fabricator's ability to conform to approved construction documents and referenced standards.
Wood trusses with overall heights or 60 inches or greater and/or wood trusses clear spanning 60 feet or greater	-	x	Verify temporary (during construction) and permanent restraint/bracing of truss members is in accordance with the approved truss submittal package.
Wood diaphragms and shear wall	s (2018 IBC Section	ons 1705.5,	1705.11.1 and 1705.12.2)
All wood diaphragms and shear walls with sheathing fastener spacing at panel edges is equal to or less than 4" o.c.	-	x	Verify wood panel sheathing, grade, thickness and nominal size of framing members, adjoining panel edges, nailing, bolting, anchoring (including hold downs) and other fastening of components within the lateral

force resisting system.

DEEP FOUNDATION CONSTRUCTION INSPECTIONS

ITEM FOR VERIFICATION & INSPECTION	INSPECTION	SPECTION FREQUENCY COMMENTS	
TIEW FOR VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC	COMMENTS
Aggregate pier construction (2018	IBC Section 1705.6)		
Determine capacities and conduct necessary load tests	х	-	
Observe drilling operation and reporting	х	-	

POST-INSTALLED ANCHOR INSPECTIONS

POST-INSTALLED ANCHO	OR INSPECT	IONS		
ITEM FOR VERIFICATION &	INSPECTION FREQUENCY		COMMENTS	
INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	
Post-Installed Anchors and Reinf	forcing Bars (20	18 IBC Sec	tion 1705.1.1)	
Adhesive Anchors and Reinforcing Bars	X	-	Special inspection shall be performed permanufacturer's requirements and approved ICC-Estreports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of epoxy and anchor rod. If the anchor is not installed in a horizontal, upwardly inclined or overhead orientation meant to resist sustained tension loads special inspection may be reduced to a periodic frequency.	
Mechanical Anchors and Screw Anchors	-	х	Special inspection shall be provided permanufacturer's requirements and approved ICC-E reports noted in POST-INSTALLED ANCHOR section of the General Structural Notes prior to installation of mechanical or screw anchor.	

STRUCTURAL OBSERVATION PROGRAM

If structural observations are required, they shall be done by the Engineer of Record or an approved subordinate at the stages of construction listed in the Construction Milestone Schedule section of these notes. At the conclusion of the project, the designated structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that to the best of the structural observer's knowledge have not been resolved (See IBC 2018 1704.6).

/		
STRUCTURAL OBSERVATION PROGRAM REQUIRED BY	YES	NO
CODE:	l X	

CONSTRUCTION MILESTONE SCHEDULE

CONSTITUTION WILLSTON	AL SCIILDOLL		
CONTRACTOR TO NOTIFY ENGINEER AT THE FOLLOWING CONSTRUCTION PHASES:			
CONCRETE			
Footings, stem walls and piers Prior to pouring concrete			
WOOD			
Wood shear walls	After substantial portion of framing is completed and prior to covering either side of shear walls		
Wood roof sheathing After substantial portion of framing is completed and prior to			

DEFERRED SUBMITTALS

Prefabricated Metal Plate Wood Trusses

For the purposes of this section, deferred submittals are defined as per section 107.3.4.1 of the IBC 2018. Submittal documents for deferred submittal items shall be submitted to the engineer, architect and building official for their review for general conformance with the design of the building.

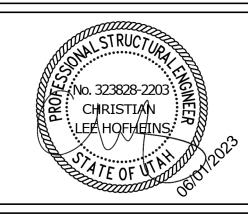
DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT ARE

Aggregate piers



Revision Schedule

Description Dat





Project for:

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

West Haven Seminary

2535 West Wilson Lane West Haven, Utah

Project Number:	
Property Number:	501-8963

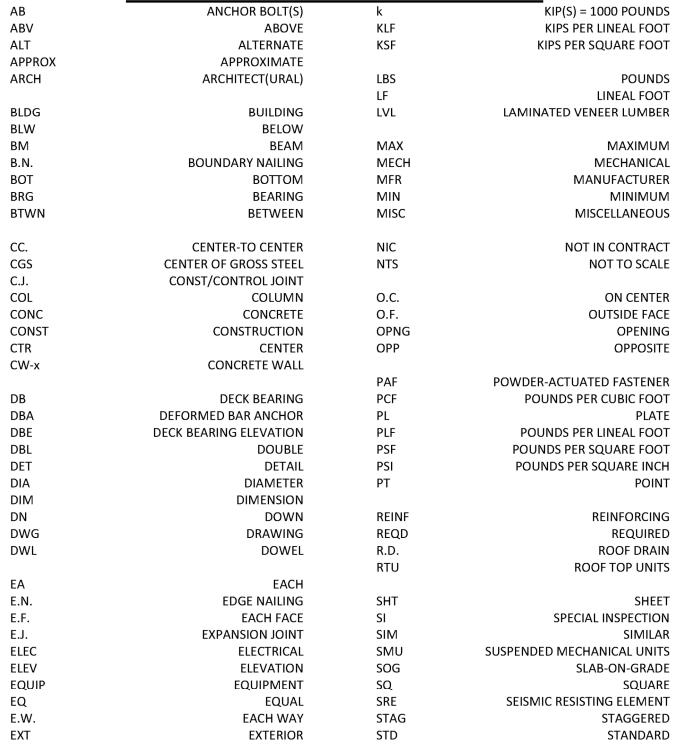
SPECIAL INSTRUCTIONS

05/01/2023

STRUCTURAL SHEET LIST										
Sheet Number	Sheet Name									
-001	GENERAL STRUCTURAL NOTES									
-002	GENERAL STRUCTURAL NOTES									
-003	SPECIAL INSTRUCTIONS									
-010	LEGENDS AND ABBREVIATIONS									
-101	FOOTING AND FOUNDATION PLANS									
-111	CEILING FRAMING PLAN									
-121	ROOF FRAMING PLAN									
-501	DETAILS									
-521	DETAILS									
-522	DETAILS									
-601	SCHEDULES									
-602	SCHEDULES									

SNO	OW DRIFT LEGEND
xx psf 0 psf	INDICATES AREA OF SNOW DRIFT. JOIST SUPPLIER TO ADD SNOW DRIFT LOAD TO JOISTS AND GIRDERS INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE SNOW DRIFT NOTE) XX psf INDICATES LOAD AT HIGH POINT
xx psf x psf	x'-x" INDICATES LENGTH OF DRIFT INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE SNOW DRIFT NOTE) xx psf INDICATES LOAD AT HIGH POINT, x psf INDICATES LOAD AT LOW POINT x'-x" INDICATES LENGTH OF DRIFT
SNOW DRIFT NOTE	SEE PLAN FOR SNOW DRIFT LOADING. THESE LOADS ARE IN ADDITION TO THE JOIST UNIFORM AND POINT LOADS SHOW! ON PLANS. JOIST SUPPLIER TO ADD SNOW DRIFT LOAD TO BOTH JOISTS AND GIRDERS

	MARKS AND SY	/MBOLS L	EGEND
	-SECTION MARK -SHEET NUMBER		INDICATES PLYWOOD ROOF SHEATHING, SEE SCHEDULE ON SHEET S-602
•	-FOOTING DESIGNATION		INDICATES CONCRETE WALL. DASHED WALLS STOP AT DECK
	—TOP OF FOOTING ELEVATION		INDICATES WOOD STUD WALL. DASHED WALLS STOP AT DECK
CW-x	INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET S-601	HDU-x	INDICATES HOLD DOWN TYPE. SEE SCHEDULE ON SHEET S-602
⟨WSW-xx-x⟩	INDICATES WOOD SHEARWALL TYPE, SEE SCHEDULE ON SHEET S-602	WH-x	INDICATES WOOD HEADER TYPE. SEE
⟨CW-x/WSW-x⟩	INDICATES WOOD SHEARWALL (AND TYPE) OVER CONCRETE WALL (AND TYPE), SEE SCHEDULES ON SHEET(S) S-601 S-602	CP-x	SCHEDULE ON SHEET S-602 INDICATES CONCRETE PIER. SEE SCHEDULE ON SHEET S-601
FCx.x	INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S-601	C.J.	INDICATES CONTROL / CONSTRUCTION JOINT, SEE DETAIL(S) 5/S-501
FSx.x	INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S-601	WP-x	INDICATES WOOD POST TYPE. SEE SCHEDULE ON SHEET {WoodSch}
SC-x	INDICATES STEEL COLUMN, SEE SCHEDULE ON SHEET S-601	mminimm	INDICATES FLOOR OFFSET, SEE DETAILS
	INDICATES AGGREGATE PIER, SEE NOTE 9 ON SHEET S-101	FTSx.x	INDICATES THICKENED SLAB FOOTING. SEE SCHEDULE ON SHEET S-601
RTU	INDICATES ROOF MECHANICAL UNIT AND WEIGHT OF UNIT	ss	INDICATES FOOTING STEP, SEE DETAIL 3/S501



LEGEND OF MARKS AND ABBREVIATIONS





KIP(S) = 1000 POUNDS

KIPS PER LINEAL FOOT

KIPS PER SQUARE FOOT

POUNDS

LINEAL FOOT

MAXIMUM

MINIMUM

MECHANICAL

MANUFACTURER

MISCELLANEOUS

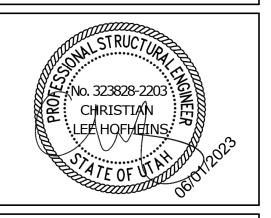
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NOT TO SCALE

ON CENTER

Date Description

Revision Schedule





Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

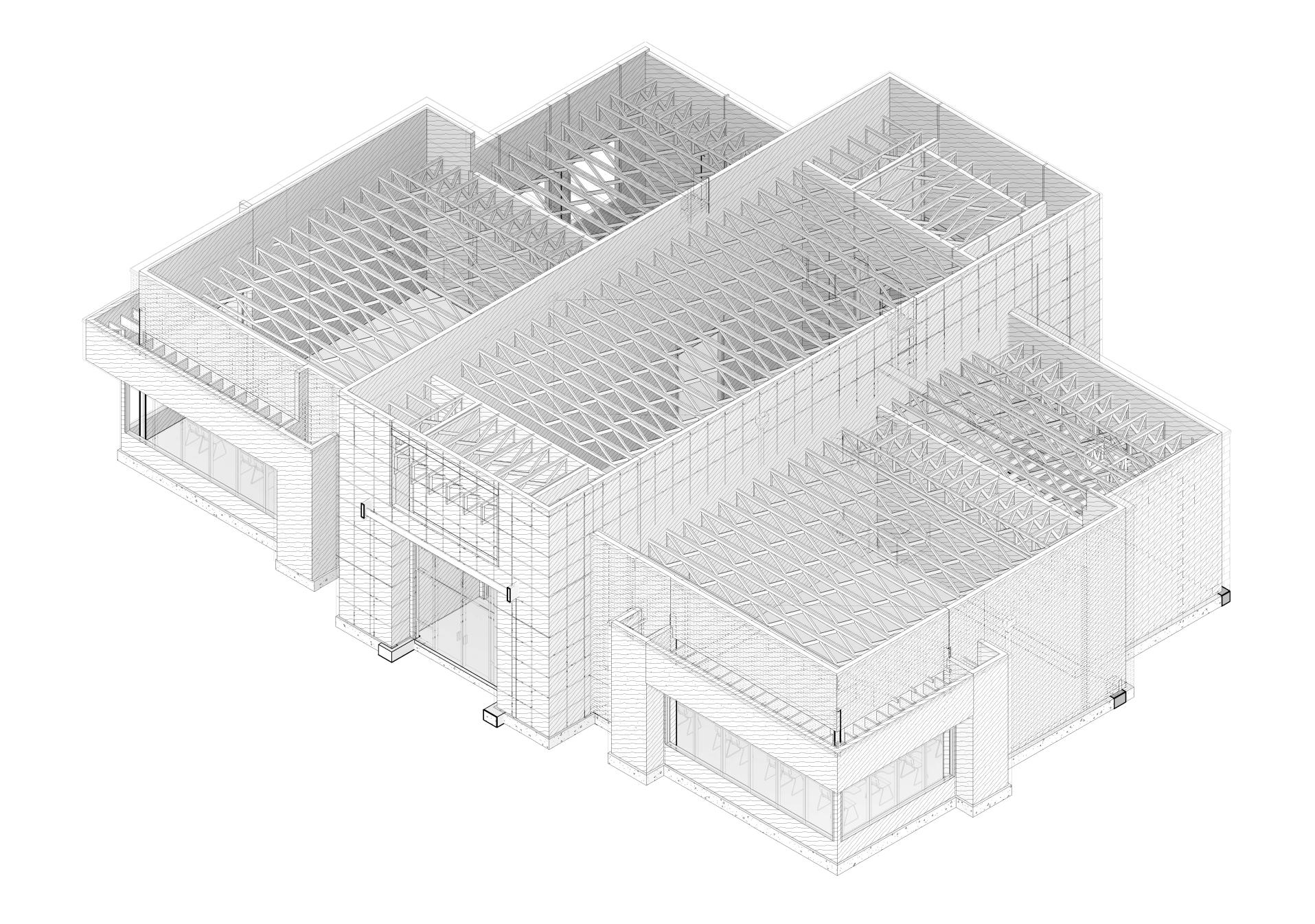
West Haven Seminary

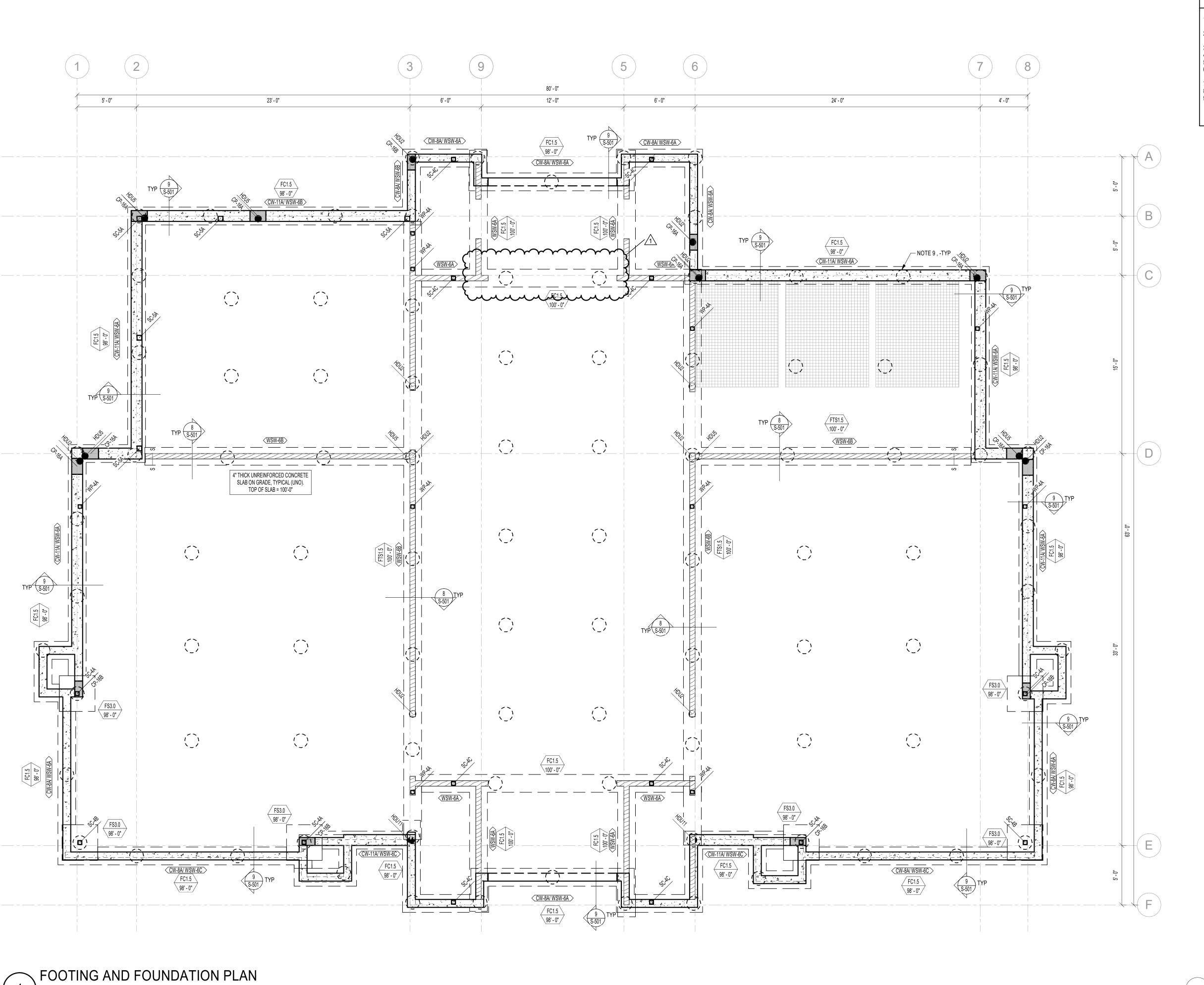
2535 West Wilson Lane West Haven, Utah

Project Number: 501-8963 Property Number:

05/01/2023

LEGENDS AND ABBREVIATIONS





FOOTING AND FOUNDATION PLAN NOTES

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS,

3. SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.

4. SEE "EARTHWORK" NOTES ON SHEET S-001 FOR MINIMUM FILL REQUIRED BENEATH FOOTINGS.

5. ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).

6. SEE DETAILS 1/S-501 AND 2/S-501 FOR CONDITION WHERE BURIED PIPES RUIN PARALLEL AND.

6. SEE DETAILS 1/S-501 AND 2/S-501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.

7. SEE DETAIL 5/S-501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
8. SEE DETAIL 6/S-501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.

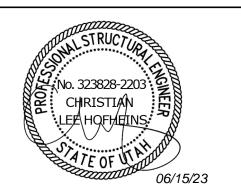
AGGREGATE PIERS INICATED ARE NOT INTENDED TO BE THE FINAL LOCATIONS AND SHALL BE CONFIRMED OR MODIFIED BY AGGREGATE PIER DESIGNER IN ORDER TO ACHIEVE THE DESIGN CRITERIA LISTED IN THE GEOTECHNICAL REPORT.

BHB STRUCTURAL 2766 South Main Street Salt Lake City, Utah 84115 801-355-5656 bhb@bhbengineers.com

Revision Schedule

Description Date

REVISION 1 06/15/2023





Project for:

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

West Haven Seminary

2535 West Wilson Lane

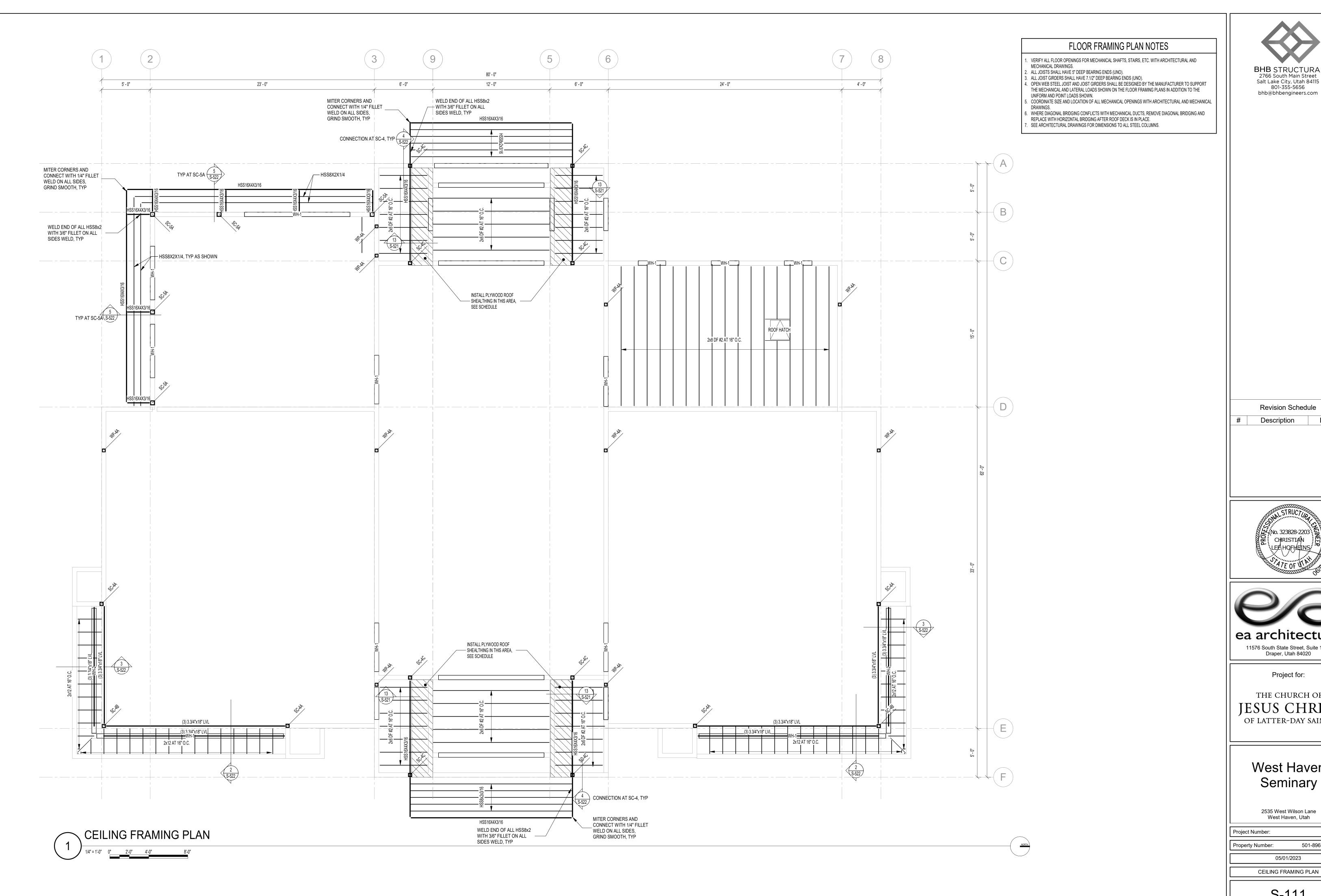
West Haven, Utah

Property Number: 501-8963

Project Number:

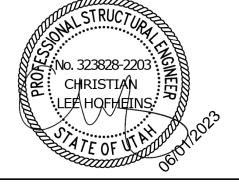
05/01/2023

FOOTING AND FOUNDATION PLANS





Revision Schedule





Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

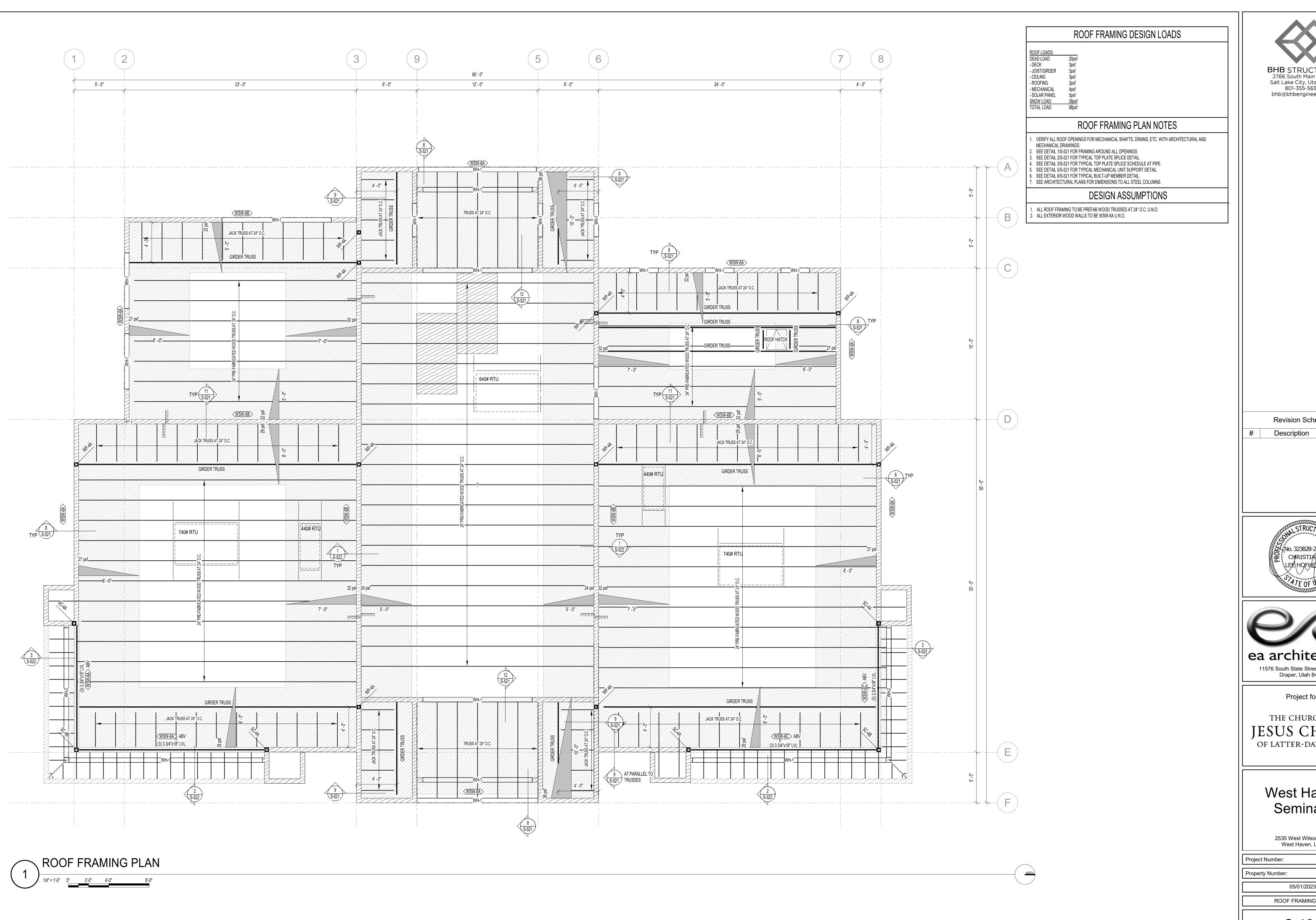
West Haven Seminary

2535 West Wilson Lane West Haven, Utah

Property Number: 501-8963

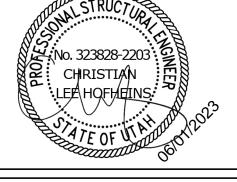
05/01/2023

CEILING FRAMING PLAN





Revision Schedule





Project for:

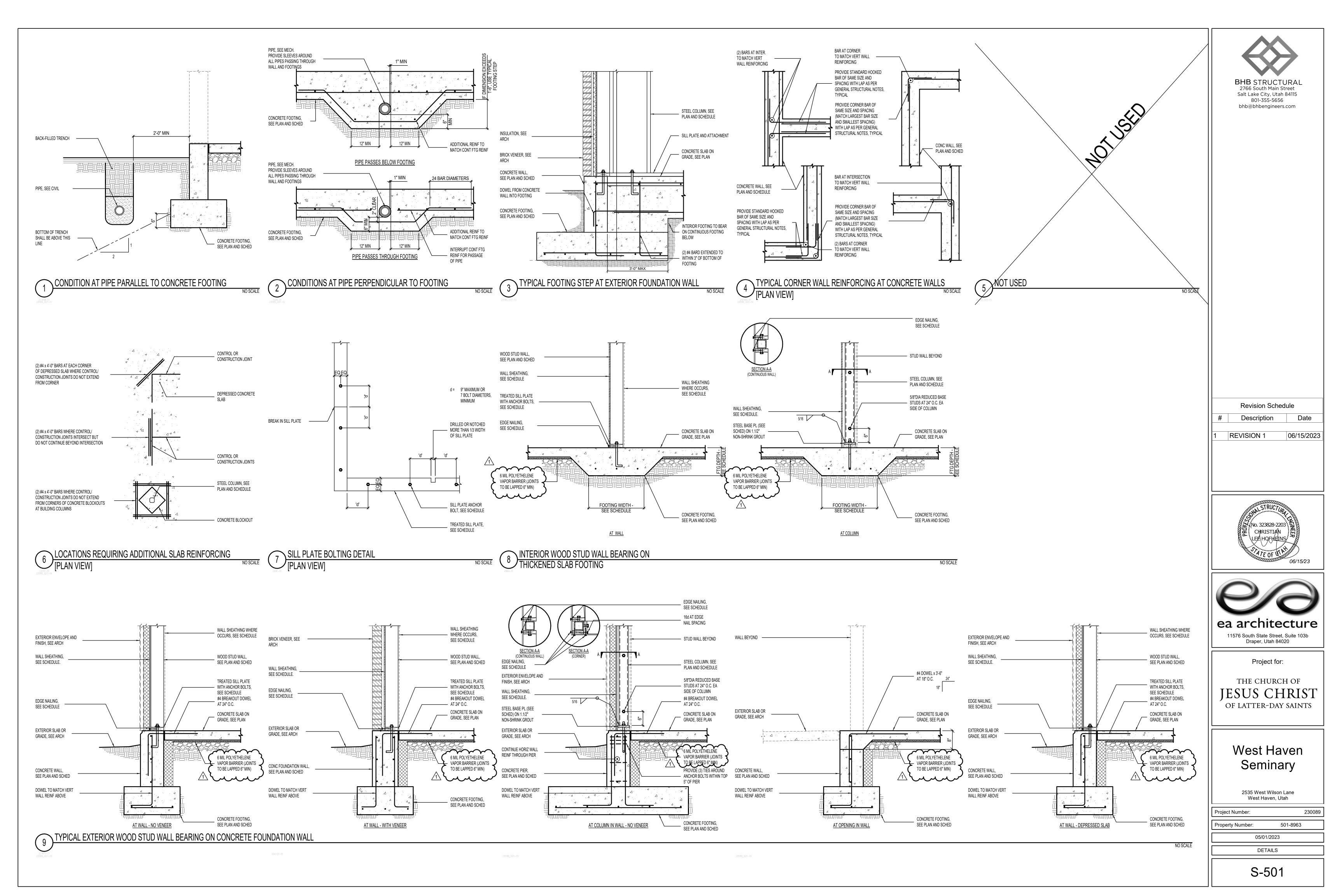
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

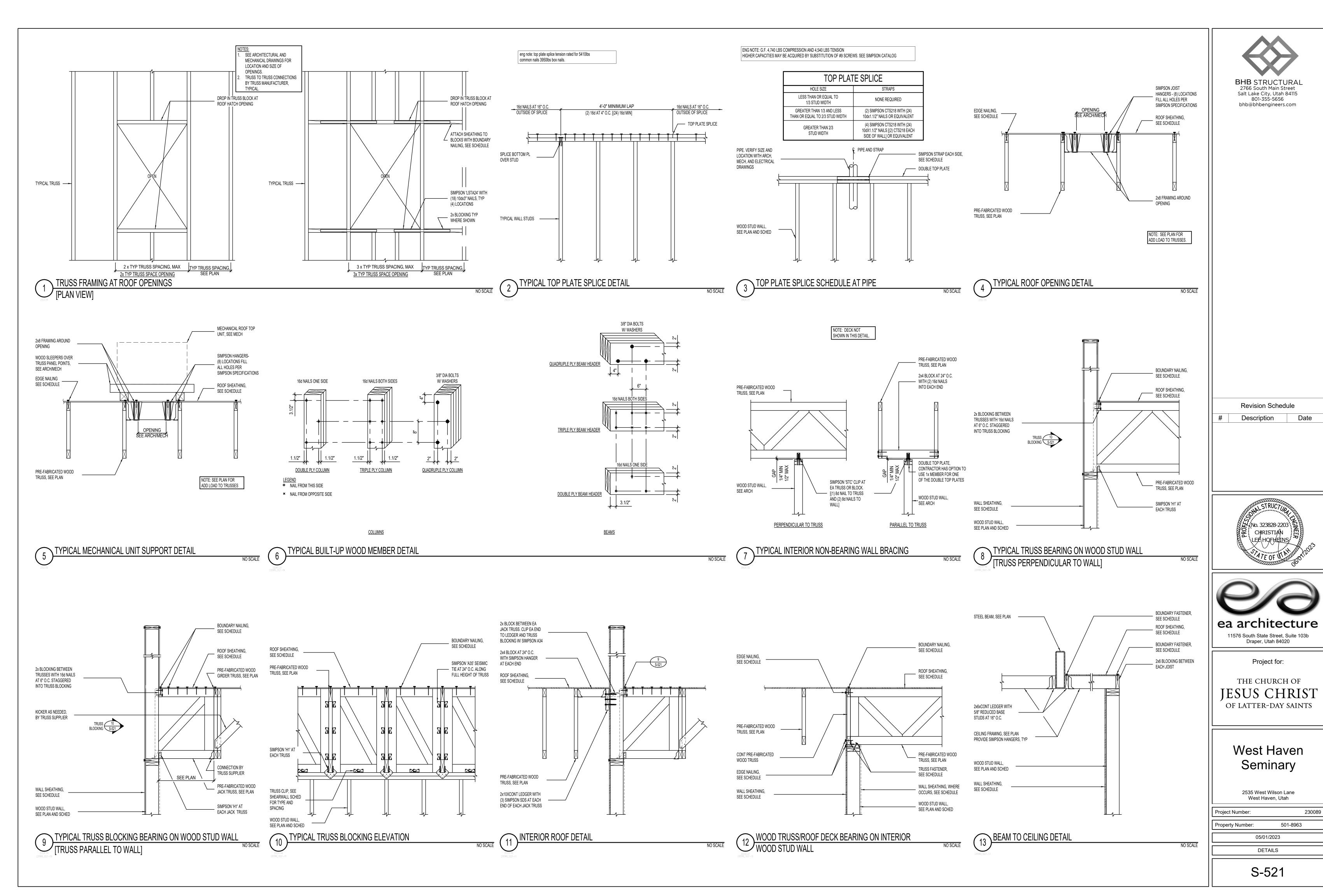
West Haven Seminary

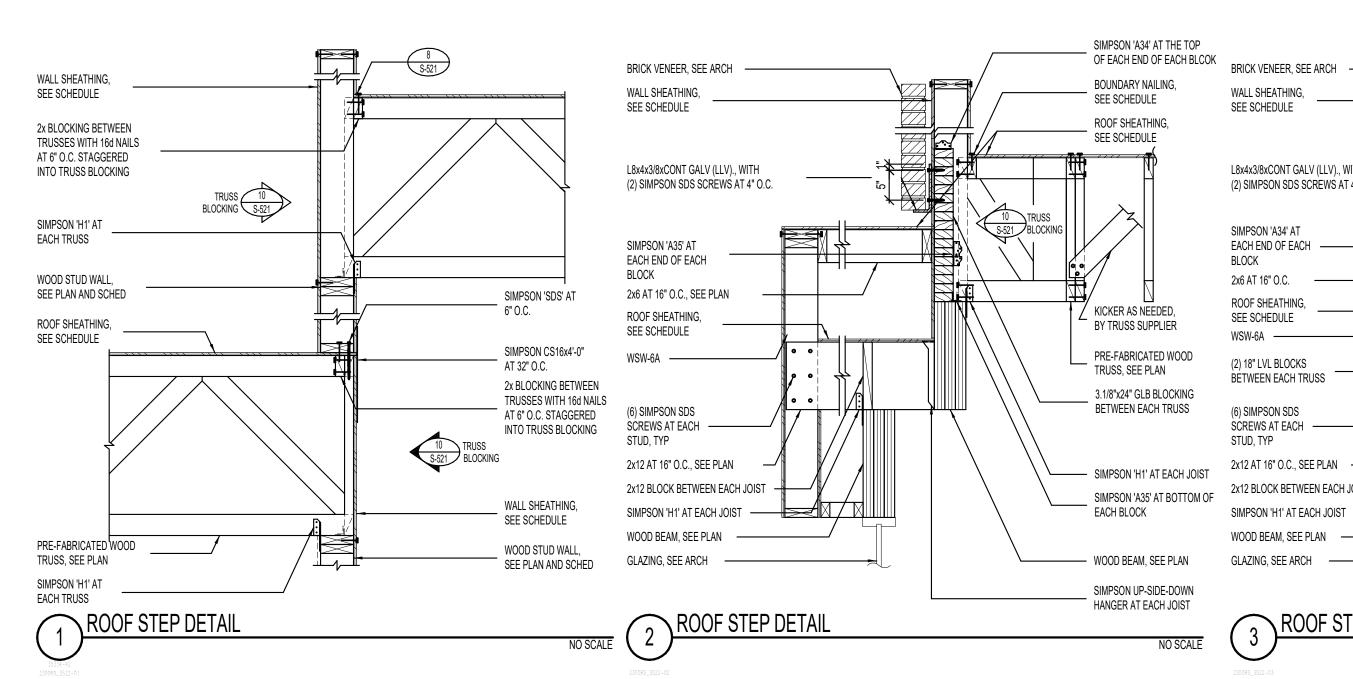
2535 West Wilson Lane West Haven, Utah

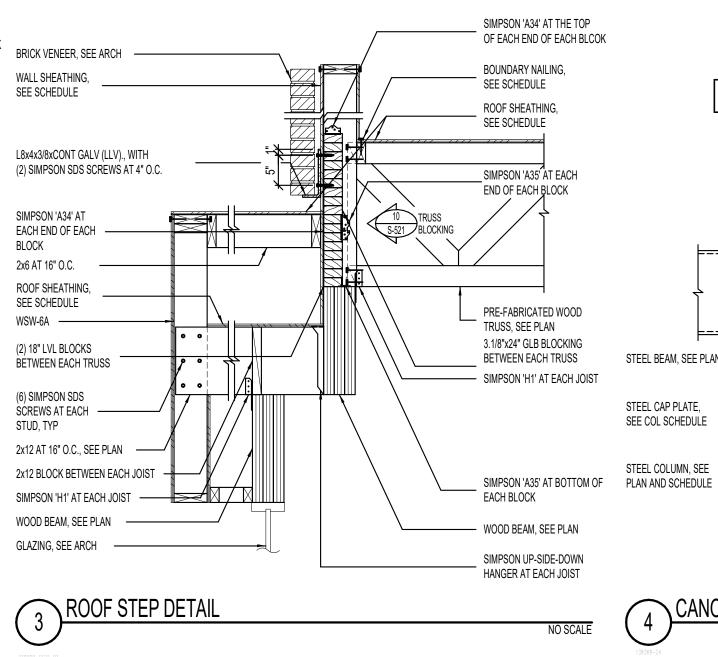
Project Number.	230069
Property Number:	501-8963
05/01	1/2023

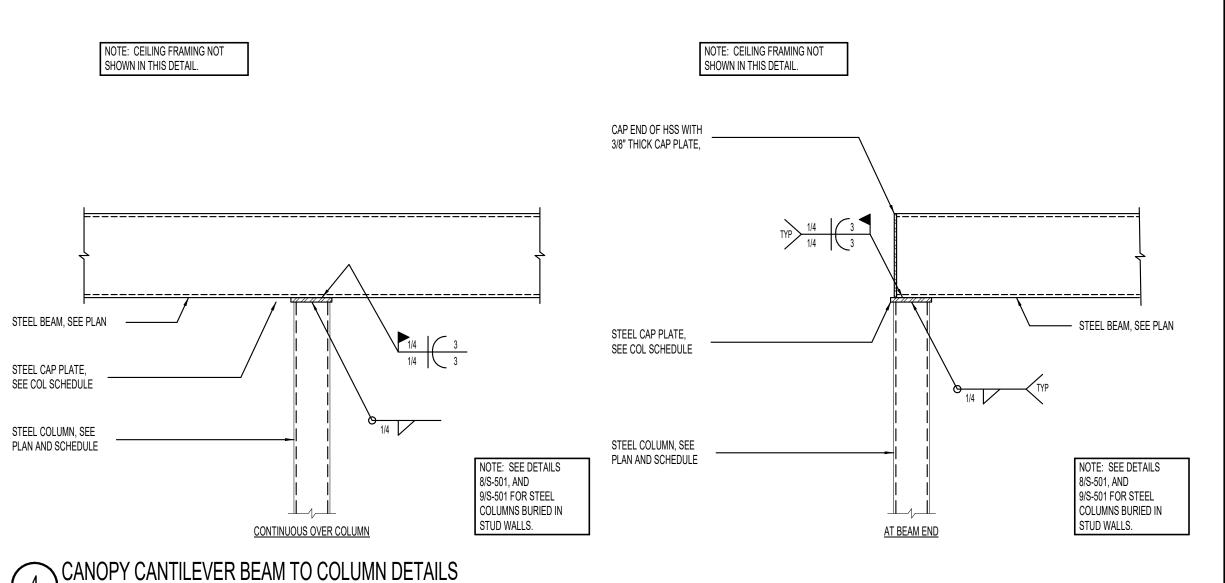
ROOF FRAMING PLAN







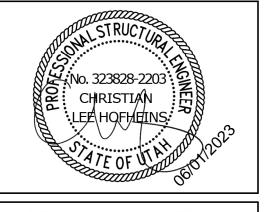






Revision Schedule

Description Date





Project for:

THE CHURCH OF

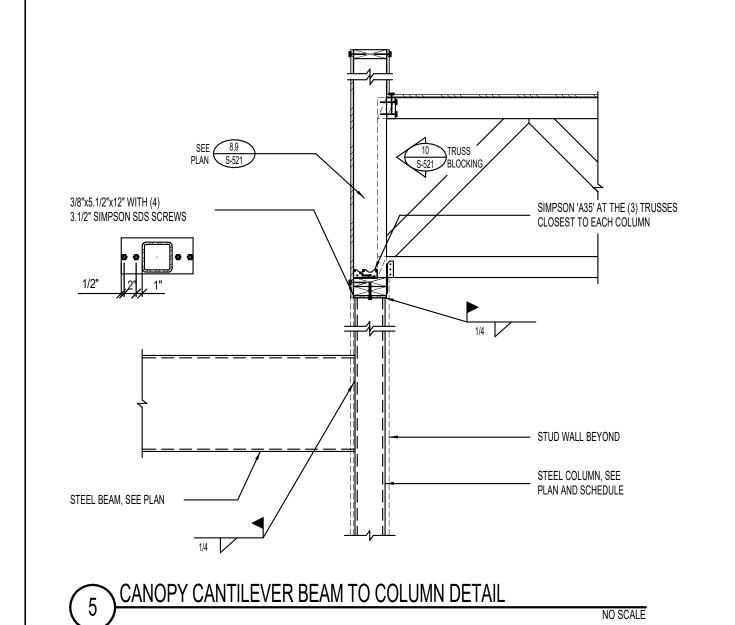
JESUS CHRIST

OF LATTER-DAY SAINTS

West Haven Seminary

2535 West Wilson Lane West Haven, Utah

Project Number:		23008
Property Number:	501-8963	
	05/01/2023	
	DETAILS	



	CONCRETE CONTINUOUS FOOTING SCHEDULE (FC)											
			REINFORCING CROSSWISE			REINFORCING LENGTHWISE						
MARK	WIDTH	LENGTH	DEPTH	No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	COMMENTS
FC1.5	1' - 6"		12"	-	#4	1' - 0"	48"	2	#5	CONT	EQ	

CONCRETE SPOT FOOTING SCHEDULE (FS)												
				REINFORCING CROSSWISE			REINFORCING LENGTHWISE					
MARK	WIDTH	Length	DEPTH	No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	COMMENTS
FS3.0	3' - 0"	3' - 0"	12"	3	#5	2' - 6"	EQ	3	#5	2' - 6"	EQ	

CONCRETE THICKENED SLAB FOOTING SCHEDULE (FTS)												
				REINFORCING CROSSWISE			REINFORCING LENGTHWISE			HWISE		
MARK	WIDTH	LENGTH	DEPTH	No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	COMMENTS
FTS1.5	1' - 6"		12"	-	#4	1' - 0"	48"	3	#4	CONT	EQ	

CONCRETE FOOTING NOTES:

1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO). 2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.

3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.

4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. 5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

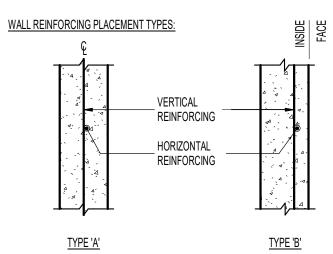
CONCRETE FOOTING SCHEDULE (C3000-S1500)

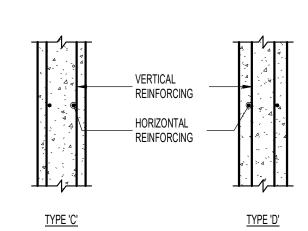
CONCRETE WALL SCHEDULES										
			REINFORCING							
MARK	THICKNESS	HORIZONTAL	VERTICAL	TOP AND BOTTOM	WALL TYPE	COMMENTS				
CW-8A	8"	#4 AT 18" O.C.	#4 AT 12 O.C.	(1) #4	А					
CW-11A	11"	#4 AT 18" O.C. E.F.	#4 AT 12 O.C. E.F.	(1) #4 E.F.	С					

CONCRETE FOUNDATION WALL NOTES: 1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. ABBREVIATIONS: EACH FACE E.F. INSIDE FACE I.F. OUTSIDE FACE O.F.

WALLS NOT DESIGNATED IN PLAN

THICKNESS	REINFORCING						
INICKNESS	VERTICAL	HORIZONTAL					
6"	#4 BARS AT 18" O.C.	#4 BARS AT 16" O.C.					
8"	#4 BARS AT 18" O.C.	#4 BARS AT 12" O.C.					
10"	#4 BARS AT 16" O.C.	#5 BARS AT 15" O.C.					
12"	#4 BARS AT 18" O.C. E.F.	#4 BARS AT 16" O.C. E.F.					





CONCRETE WALL SCHEDULE 3/4" = 1'-0"

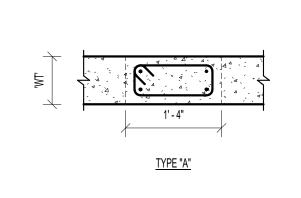
CONCRETE PIER SCHEDULE											
	PIER SIZE REINFORCING										
MARK	W x L	VERTICAL	TIES	TYPE	COMMENTS						
CP-16A	8" x 16"	(4) #5	#3 AT 8" O.C.	A							
CP-16A	11" x 16"	(4) #5	()								
CP-16B	8" x 16"	(7) #5	(2) #3 AT 8" O C	В							

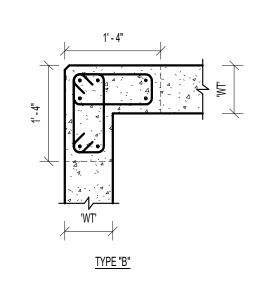
CONCRETE PIER NOTES:

1. INSTALL (3) SETS OF TIES WITHIN TOP 5" OF ALL PIERS (UNO).

2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.

3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.





3 CONCRETE PIER SCHEDULE

3/4" = 1'-0"

	STEEL COLUMN SCHEDULE								
MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE	COMMENTS					
SC-3A	HSS3x3x3/16	3/4" (SBP-1)	1/2" (SCP-1)	NOTE 5					
SC-4A	HSS4x4x3/16	3/4" (SBP-2)	SIMPSON 'ECCO' COLUMN CAP	NOTE 5					
SC-4B	HSS4x4x3/16	3/4" (SBP-1)	SIMPSON 'ECCLO' COLUMN CAP	NOTE 5					
SC-4C	HSS4x4x3/16	3/4" (SBP-3)	1/2" (SCP-1)	NOTE 5					
SC-5A	HSS5x5x3/16	3/4" (SBP-3)	SEE DETAIL 5/S-522	NOTE 5					

STEEL COLUMN NOTES:

1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4"DIA ANCHOR RODS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR RODS 3" MINIMUM

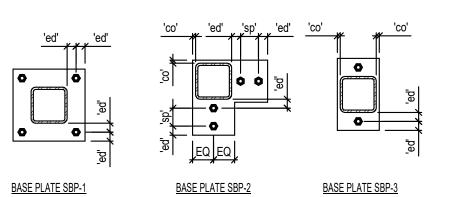
ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL RODS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE ROD DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.

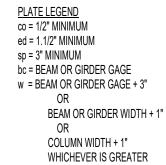
2. ALL CAP PLATE BOLTS SHALL BE 3/4"DIA A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.

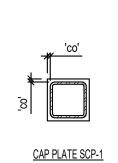
3. ANCHOR RODS SHALL NOT BE WELDED (INCLUDING TACK WELDS).

4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. 5. CONNECT COLUMN TO STUDS PER DETAILS 8,9/S501.

STEEL BASE PLATE TYPES:

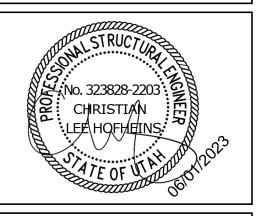








Revision Schedule # Description





Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

> West Haven Seminary

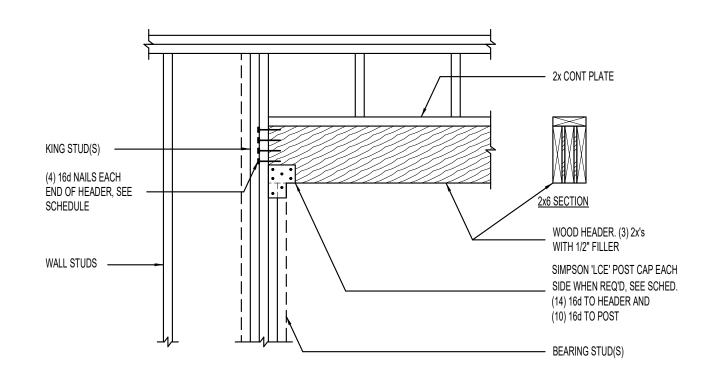
> > 2535 West Wilson Lane West Haven, Utah

Project Number: Property Number: 501-8963

05/01/2023 SCHEDULES

		Н	EADER BE	EARING SO	CHEDULE	FOR WOO	D STUD W	/ALL	
MADIZ	3'-6"	MAX	5'-6" MAX		13'-6" MAX		19'-6" MAX		COMMENTO
MARK	HEADER	JAMB	HEADER	JAMB	HEADER	JAMB	HEADER	JAMB	COMMENTS
WH-1	(3) 2x8	1k/1b	(3) 2x10	2k/1b	(3) 2x12	2k/2b	(3) 1.3/4"x 14" LVL	3k/3b	
WH-2	-	•	-	-	(3) 1.3/4"x 16" LVL	3k/2b	-	-	

HEADER SCHEDULE NOTES: 1. PROVIDE SIMPSON 'LCE' POST CAP FOR ALL HEADER 6'-0" SPAN OR GREATER.

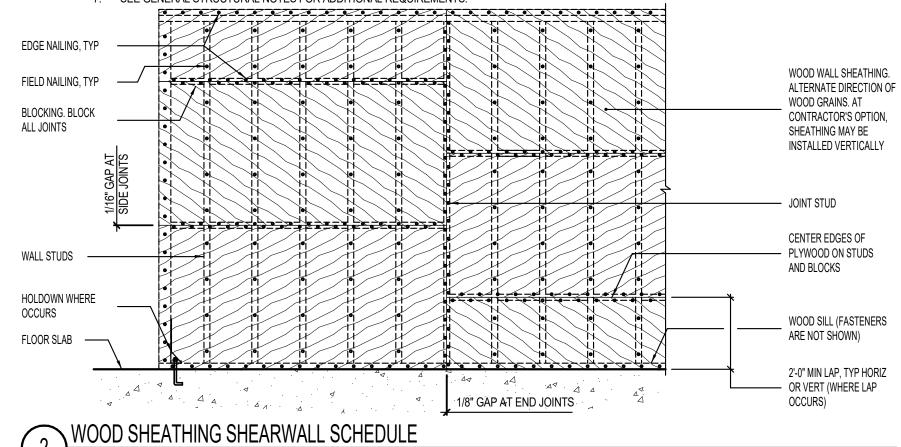


HEADER BEARING SCHEDULE FOR 2x4 OR 2x6 STUD WALL

WOOD SHEATHING SHEARWALL SCHEDULE WALL FRAMING WALL SHEATHING TOP BOTTOM PLATE FASTENERS STUD & BLOCK AT JOINTS MARK COMMENTS NAIL | EDGE NAIL | FIELD NAIL THICKNESS WSW-6A 2x6 AT 16" O.C. (2) 2x6 2x6 5/8"DIA A.B. AT 48" O.C. 2x 7/16" 8d 6" O.C. 12" O.C. 240plf WSW-6B 2x6 AT 16" O.C. 5/8"DIA A.B. AT 32" O.C. 2x 7/16" 8d 4" O.C. 12" O.C. 350plf (2) 2x6 2x6 2x6 AT 16" O.C. 8d 3" O.C. 12" O.C. 450plf (2) 2x6 2x6 5/8"DIA A.B. AT 16" O.C.

WOOD SHEATHING SHEARWALL NOTES:

- 1. PROVIDE 1/4"x3"x0"-3" WASHER PLATES AT BOLTS. CONTRACTOR HAS OPTION TO PROVIDE A DIAGONAL SLOTTED HOLE WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH OF UP TO 1.3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
- USE COMMON NAILS (8d DIAMETER = 0.13. AT SILL PLATE USE HOT-DIPPED OR TUMBLED GALVANIZED NAILS. ANCHOR BOLTS SHALL HAVE A 7" MINIMUM EMBEDMENT INTO CONCRETE AND TERMINATE WITH A STANDARD 90° HOOK OF 3-TIMES THE ANCHOR BOLT DIAMETER AND BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL IN ACCORDANCE WITH IBC 2304.10.
- WHERE STUDS ARE CUT FOR PLACEMENT OF ANCHOR BOLTS OR OTHER ELEMENTS, AN ADJACENT STUD SHALL BE ADDED.
- WHERE WOOD SHEATHING IS APPLIED TO BOTH SIDES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBER SHALL BE 3" OR THICKER AND NAILS ON EITHER SIDE SHALL BE STAGGERED.
- PRE-DRILLED HOLES ARE REQUIRED AT 20d NAILS. 7. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.





AT CONC WALL W/ CONC PIER

1. ALL HOLDOWNS SPECIFIED ARE "SIMPSON - STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR

SUBSTITUTIONS. 2. LAG SCREWS SHALL NOT BE USED.

6x6 POST DF NO.2 MIN

3. DO NOT OVER TORQUE NUTS; SEE MANUFACTURER'S TORQUE REQUIREMENTS.

(30) 1/4"DIA x 2.1/2" SDS

- 4. ANCHOR RODS SHALL BE ASTM F1554 Gr. 36 OR A36 THREADED ROD AND SHALL HAVE A 3/16"x2.1/2"x2.1/2" PLATE WASHER WITH DOUBLE HEAVY HEX NUT AT THE EMBEDMENT END INTO THE CONCRETE.
- 5. INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH
- 6. WHERE CONCRETE PIER IS PROVIDED IN WALL, ANCHOR BOLT MUST FALL WITHIN THE REINFORCING TIES
- 7. STRAP HOLDOWNS CANNOT BE BENT OUT OF POSITION FOR WALL INSTALLATION.
- 8. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

4	4" MAX BOUNDARY MEMBER (UNO)
BOUNDARY MEMBER	BOUNDARY MEMBER FASTENERS
HOLDOWN — /	Meranako
SILL PLATE	
EMBEDWENT (1) HOLDOWN	PLATE WASHER 3/16" - x2.1/2"x2.1/2" WITH DBL HEAVY HEX NUT CONCRETE PIER, SEE PLAN AND SCHEDULE
(3)	

WOOD POST SCHEDULE (WP-x)						
MARK	DESIGNATION	CONNECTION				
WP-4A	4x4 DFL NO 2					

¬ WOOD POST SCHEDULE (WP-x)

NO SCALE

Revision Schedule

Description

2766 South Main Street

801-355-5656 bhb@bhbengineers.com

NOTE 6

NO SCALE

Salt Lake City, Utah 84115



Project for:

11576 South State Street, Suite 103b

Draper, Utah 84020

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

> West Haven Seminary

> > 2535 West Wilson Lane West Haven, Utah

Project Number: 230089 Property Number: 501-8963

05/01/2023 SCHEDULES

PLUMBING GENERAL NOTES

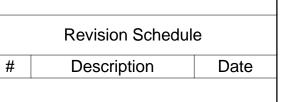
- 1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION.
- 2. THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES AND PAY FEES CONNECTED THEREWITH.
- 3. BIDDERS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS SURROUNDING THE PROJECT PRIOR TO BIDDING.
- 4. THE CONTRACTOR IS REFERRED TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE CONTRACT DOCUMENTS.
- 5. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS.
- 6. ALL PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING STATE MECHANICAL/PLUMBING AND BUILDING CODES AS WELL AS ALL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT STANDARD SHALL APPLY.
- 7. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS UNLESS NOTED OTHERWISE.
- 8. RUN-OUT SIZES TO INDIVIDUAL PLUMBING FIXTURES TO BE EQUAL TO ROUGH-IN SIZE NOTED IN THE PLUMBING FIXTURE SCHEDULE.

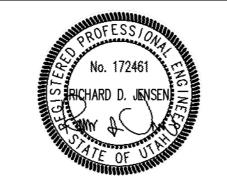
- 9. PLUMBING/PIPING IS SHOWN SCHEMATICALLY FOR VIEWING PURPOSES ONLY; DURING INSTALLATION FIELD MODIFICATIONS TO ROUTING MAY BE REQUIRED.
- 10. INSTALL ALL REQUIRED CLEANOUTS TO CLEAR EQUIPMENT AND FIXTURES.
- 11. ALL WORK SHALL BE PROPERLY TESTED, BALANCED AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- 12. TERMINATE PLUMBING VENTS AT A MINIMUM OF 10' FROM ALL AIR HANDLING EQUIPMENT INTAKE VENTS.
- 13. CONTRACTOR SHALL VERIFY LOCAL CODE REQUIREMENTS FOR INDIRECT CONNECTIONS FOR FOOD PREP AREAS. CONNECTIONS SHALL BE PROVIDED WITH A MINIMUM 1" AIR GAP, UNLESS OTHERWISE NOTED.
- 14. PRESSURIZED PIPING SHALL NOT BE RUN IN ANY AREA SUBJECT TO FREEZING.
- 15. PRIOR TO INSTALLING ANY PIPING, VERIFY DEPTH OF CONNECTION POINTS OF GRADE DEPENDENT PIPING AND CONFIRM IN WRITING TO ENGINEER.
- 6. WHERE RATED ASSEMBLIES ARE PENETRATED BY DUCTS, PIPES OR OTHER ITEMS, THE "F" AND "T" RATING SHALL BE MAINTAINED WITH REQUIRED UL LISTED ASSEMBLIES OR SEALANT AS REQUIRED BY THE APPLICABLE CODE OR AUTHORITY HAVING JURISDICTION.

			PLUMBING A	BBREV	IATIONS		
Α	COMPRESSED AIR	EWC	ELECTRIC WATER COOLER	IN	INCH	RPBP	REDUCED PRESSURE
AFF	ABOVE FINISHED FLOOR	EWT	ENTERING WATER	INV	INVERT		BACKFLOW PREVENTER
ALT	ALTERNATE		TEMPERATURE	KW	KILOWATT	S	SINK
ASL	ABOVE SEA LEVEL	F	FIRE SUPPRESION	LAV	LAVATORY		SCHEDULE
AV	ACID VENT	FCO	FLOOR CLEANOUT	LB	POUND	SCW	SOFT COLD WATER
AW	ACID WASTE	FD	FLOOR DRAIN	MAX	MAXIMUM	SH	SHOWER
BFF	BELOW FINISHED FLOOR	FLEX	FLEXIBLE	MBH	THOUSAND BRITISH	SL	SEA LEVEL
BTU	BRITISH THERMAL UNIT	FLR	FLOOR		THERMAL UNITS/HOUR	SPEC	SPECIFICATION
CO	CLEANOUT	FS	FLOOR SINK	MECH	MECHANICAL	SQ FT	SQUARE FEET
CO2	CARBON DIOXIDE	FT	FEET		MECHANICAL ROOM	SRD	SECONDARY ROOF DRAIN
CONTR	CONTRACTOR	G	NATURAL GAS	MFR	MANUFACTURER	SS	SERVICE SINK
COTG	CLEANOUT TO GRADE	GA	GAUGE	MIN	MINIMUM	STD	STANDARD
CW	CLOTHES WASHER	GAL	GALLON(S)	MISC	MISCELLANEOUS	TWS	TEMPERED WATER
CW	COLD WATER	GALV	GALVANIZED	N	NITROGEN		DOMESTIC
D	DRAIN PIPE	GPM	GALLONS PER MINUTE	NIC	NOT IN CONTRACT	TEMP	TEMPERATURE
DEG F	DEGREE FAHRENHEIT	GW	GREASE WASTE	NO	NITROUSE OXIDE	TYP	TYPICAL
DEMO	DEMOLITION	HA	HAMMER ARRESTOR	NTS	NOT TO SCALE	U	URINAL
DET	DETAIL	HB	HOSE BIBB	0	OXYGEN	V	VOLT
DF	DRINKING FOUNTAIN	HD	HEAD	PH	PHASE	VAC	VACUUM
DIA	DIAMETER	HORIZ	HORIZONTAL	PPM	PARTS PER MILLION	VTR	VENT THRU ROOF
DIM	DIMENSION	HP	HORSEPOWER	PRV	PRESSURE REDUCING VALVE	W/	WITH
DIV	DIVISION	Н	HOUR	PSI	POUNDS PER SQUARE INCH	W/O	WITHOUT
DMPR	DAMPER	HW	HOT WATER	PW	PROCESS WASTE	WAG	WASTE ANESTHETIC GAS
DN	DOWN	HWR	HOT WATER RETURN	QTY	QUANTITY	WC	WATER CLOSET
DRN	DRAIN	HZ	HERTZ	RD	ROOF DRAIN	WCO	WALL CLEANOUT
DS	DOWNSPOUT	ICW	INDUSTRIAL COLD WATER	REQD	REQUIRED	WH	WATER HEATER
ES	EMERGENCY	IE	INVERT ELEVATION	REV	REVISION		
EW	EMERGENCY EYE WASH	IHW	INDUSTRIAL HOT WATER	RP	RECIRCULATION PUMP		

	PLUMBING SHEET INDEX							
P001	PLUMBING LEGEND AND GENERAL NOTES							
PL101	PLUMBING FLOOR PLAN							
PL102	ROOF PLUMBING PLAN							
P501	PLUMBING DETAILS							
P502	PLUMBING DETAILS							
P601	PLUMBING SCHEDULES							
P901	DWV AND WATER SUPPLY PIPING SCHEMATIC							

	PLUMBI	NG LEGEND	
DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
WALL CLEAN OUT	wco -	DOMESTIC COLD WATER PIPING	
CLEAN OUT	CO -	INDUSTRIAL COLD WATER PIPING	ICW
CLEAN OUT TO GRADE	COTG —	SOFT COLD WATER PIPING	SCW
FLOOR CLEAN OUT	FCO —	DOMESTIC HOT WATER PIPING	
DROP	——————————————————————————————————————	INDUSTRIAL HOT WATER PIPING	
RISE	+0+ +0	SOFT HOT WATER PIPING	SHW
CAPPED PIPE		DOMESTIC HOT WATER RECIRCULATION PIPING	
PIPE REDUCER		DOMESTIC TEMPERED WATER	TWS
BALL VALVE	φ	VENT PIPING	
GATE VALVE		ACID VENT PIPING	AV
AUTOMATIC TWO-WAY VALVE		WASTE PIPING (ABOVE GRADE OR FLOOR)	
AUTOMATIC THREE-WAY VALVE		WASTE PIPING (BELOW GRADE OR FLOOR)	
TEMPERING VALVE	TWS	ACID WASTE PIPING (ABOVE GRADE OR FLOOR)	AW
UNION		ACID WASTE PIPING (BELOW GRADE OR FLOOR)	AW
GAS COCK VALVE		GREASE WASTE PIPING (ABOVE GRADE OR FLOOR)	GW
PRESSURE REGULATOR		GREASE WASTE PIPING (BELOW GRADE OR FLOOR)	GW
STRAINER		PROCESS WASTE PIPING (ABOVE GRADE OR FLOOR)	PW
HAMMER ARRESTOR		PROCESS WASTE PIPING (BELOW GRADE OR FLOOR)	PW
CHECK VALVE		ROOF DRAIN PIPING (ABOVE GRADE OR FLOOR)	RD
CIRCUIT SETTER	**	ROOF DRAIN PIPING (BELOW GRADE OR FLOOR)	RD
BUTTERFLY VALVE	<u> </u>	SECONDARY ROOF DRAIN PIPING	SRD
BACKFLOW PREVENTOR		NATURAL GAS PIPING	G
RELIEF VALVE	R	LIQUID PROPANE GAS	LPG —
MANUAL AIR VENT	\rightarrow	COMPRESSED AIR PIPING	A
THERMOMETER	111111	CARBON DIOXIDE PIPING	C02
FLEXIBLE PIPING		— NITROGEN PIPING	N
INLINE PUMP		NITROUS OXIDE PIPING	NO
DIRECTION OF SLOPE		OXYGEN PIPING	0 —
DIRECTION OF SLOPE		VACUUM PIPING	VAC
FLOW DIRECTION		WASTE ANESTHETIC GAS PIPING	WAG-
ACCESS DOOR		DEIONIZED WATER PIPING	DIW
FLOW METER	(FM)	DRAIN PIPING	D
I LOVV IVIL I LIX		FIRE SPRINKLER PIPING	F
WATER METER	\(\begin{align*} \times \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	KEYED NOTE	(#)
DEVICE IN DROP	₹	PLUMBING FIXTURE CALLOUT	(P-??)
SECTION LETTER SHEET NUMBER	TOP	DETAIL NUMBER SHEET DETAIL APPEARS	X S#
ROOM NAME ROOM NUMBER	ROOM NO	EQUIPMENT CALLOUT	X-#
REVISION DELTA	<u>/#\</u>	LARGE SCALE NUMBER SHEET LARGE SCALE APPEARS	# S#
NEW CONNECTION	lacksquare		







Project for:

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

Project Number:

Property Number:

L. JENSEN
SOCIATES

May 1, 2023

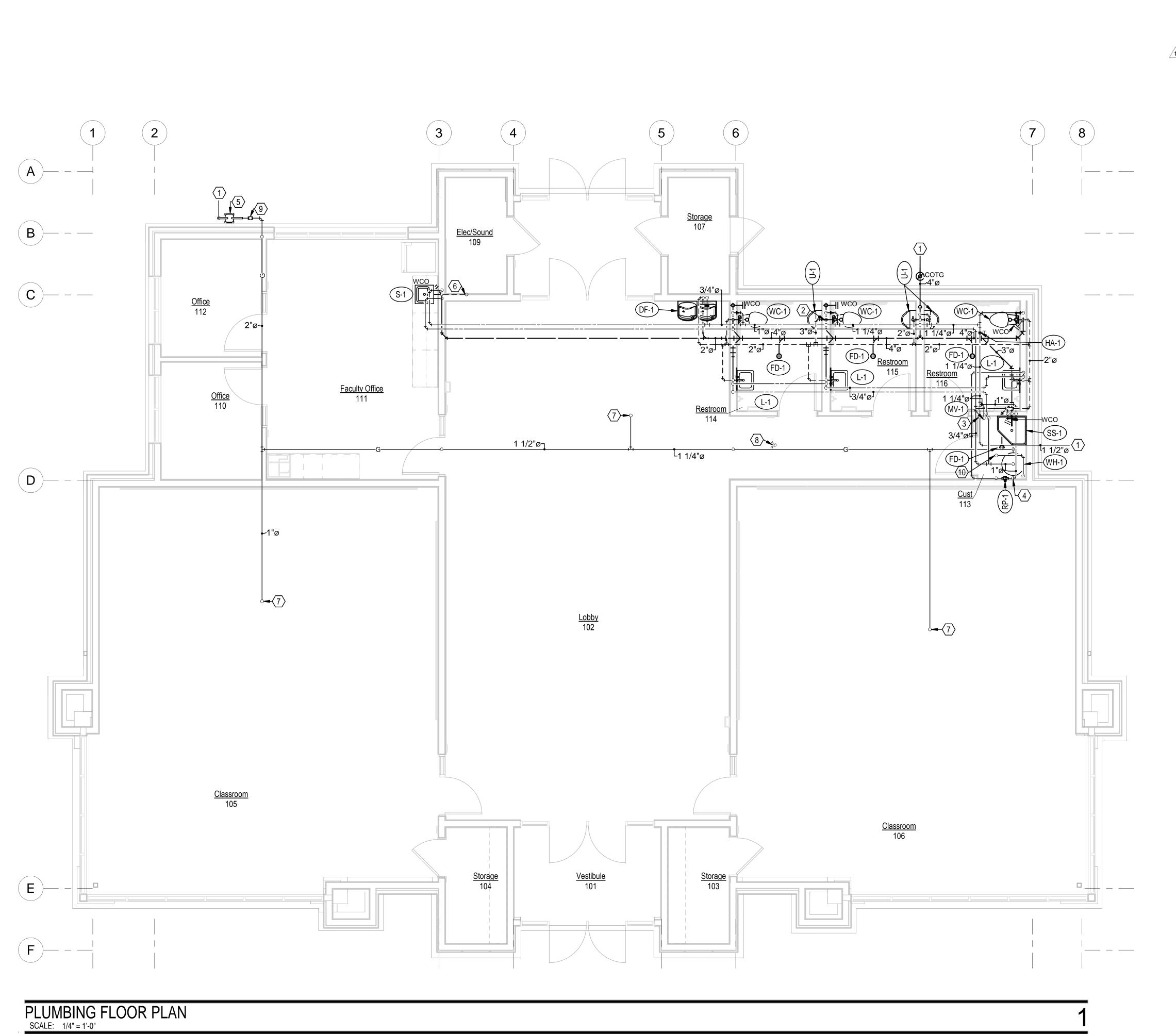
PLUMBING LEGEND AND GENERAL NOTES

P001

501-8963

DAVID L. JENSEN
& ASSOCIATES
MECHANICAL ENGINEERS
547 WEST 500 SOUTH SUITE #140
BOUNTIFUL, UTAH 84010

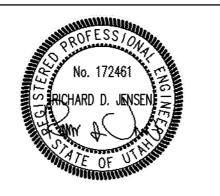
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- SEE SITE UTILITY PLAN FOR CONTINUATION. 3" VTR.
- 1-1/2" PRV STATION IN DROP, SEE DETAIL
- CONNECT TO CW PIPING NEAR WH-1 CONNECTION, SEE DETAIL 5/P501.
- GAS METER, BY GAS COMPANY. 3" VTR. TRANSITION FROM 1-1/2" VENT WITHIN
- 1' OF ROOF DECK. GAS LINE UP THRU ROOF TO ROOFTOP UNIT.
 - MOTION SENSOR FOR RP-1 CONTROL.
 - SEISMIC GAS VALVE, SEE DETAIL 1/P502.
 - FLUE/COMBUSTION AIR UP THRU ROOF, SEE
 - DETAIL 5/P501.

Revision Schedule Description

AEC COMMENTS 05-26-23





Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

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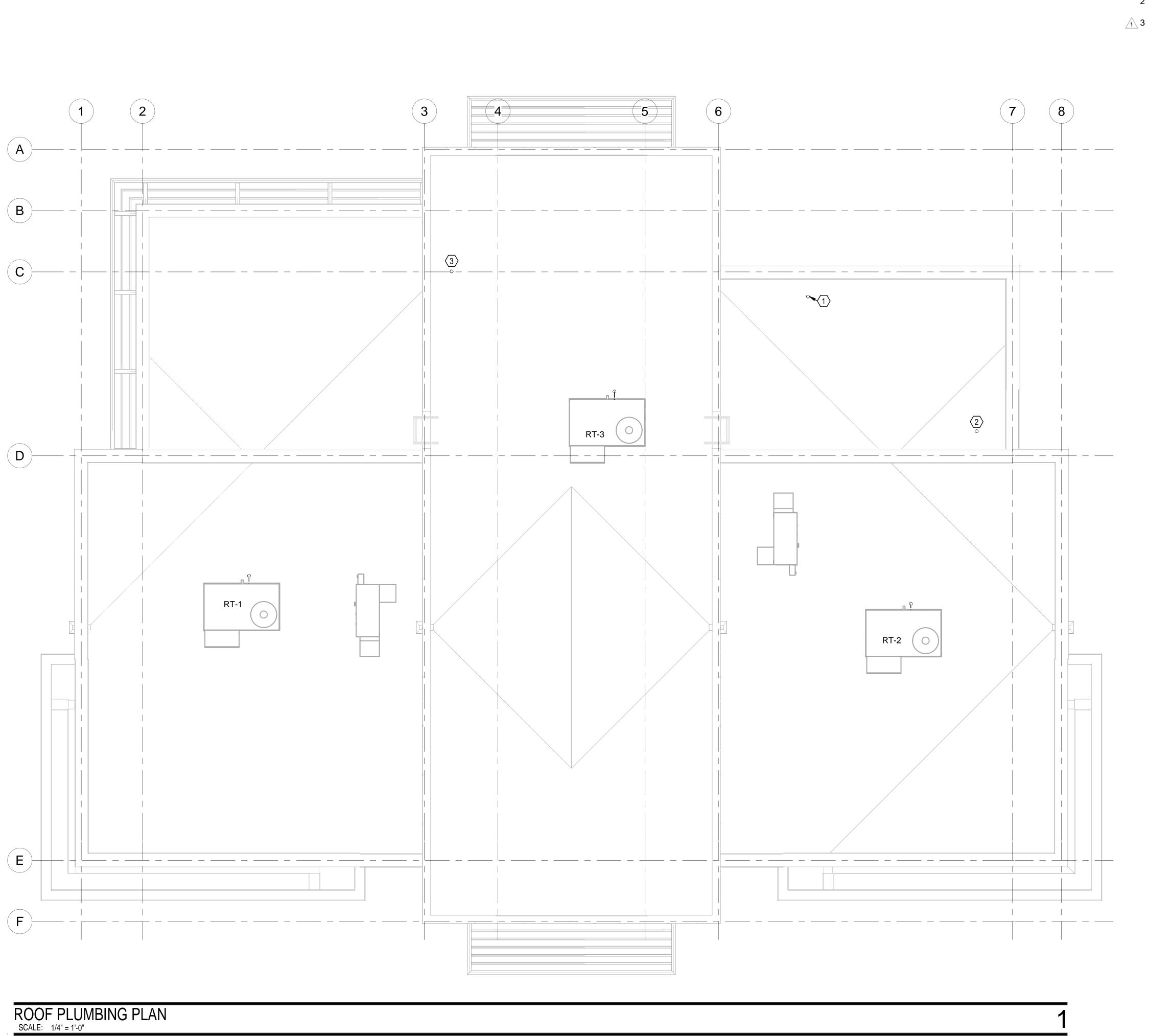


Property Number: May 1, 2023 DAVID L. JENSEN
& ASSOCIATES
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BOUNTIFUL, UTAH 84010
PHONE: (801) 294-9299
FAX: (801) 294-9399 PLUMBING FLOOR PLAN

Project Number:

PL101

501-8963



SHEET KEYED NOTES

1 3" VTR.

2 FLUE/COMBUSTION AIR UP THRU ROOF, SEE

DETAIL 5/P501.

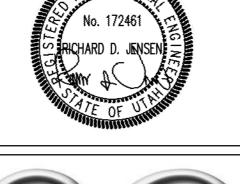
3" VTP_TPANSITION FROM 1-1/2" VENT WITH

3" VTR. TRANSITION FROM 1-1/2" VENT WITHIN 1' OF ROOF DECK.

Revision Schedule

Description Date

1 AEC COMMENTS 05-26-23





Project for:

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Property Number:

DAVID L. JENSEN

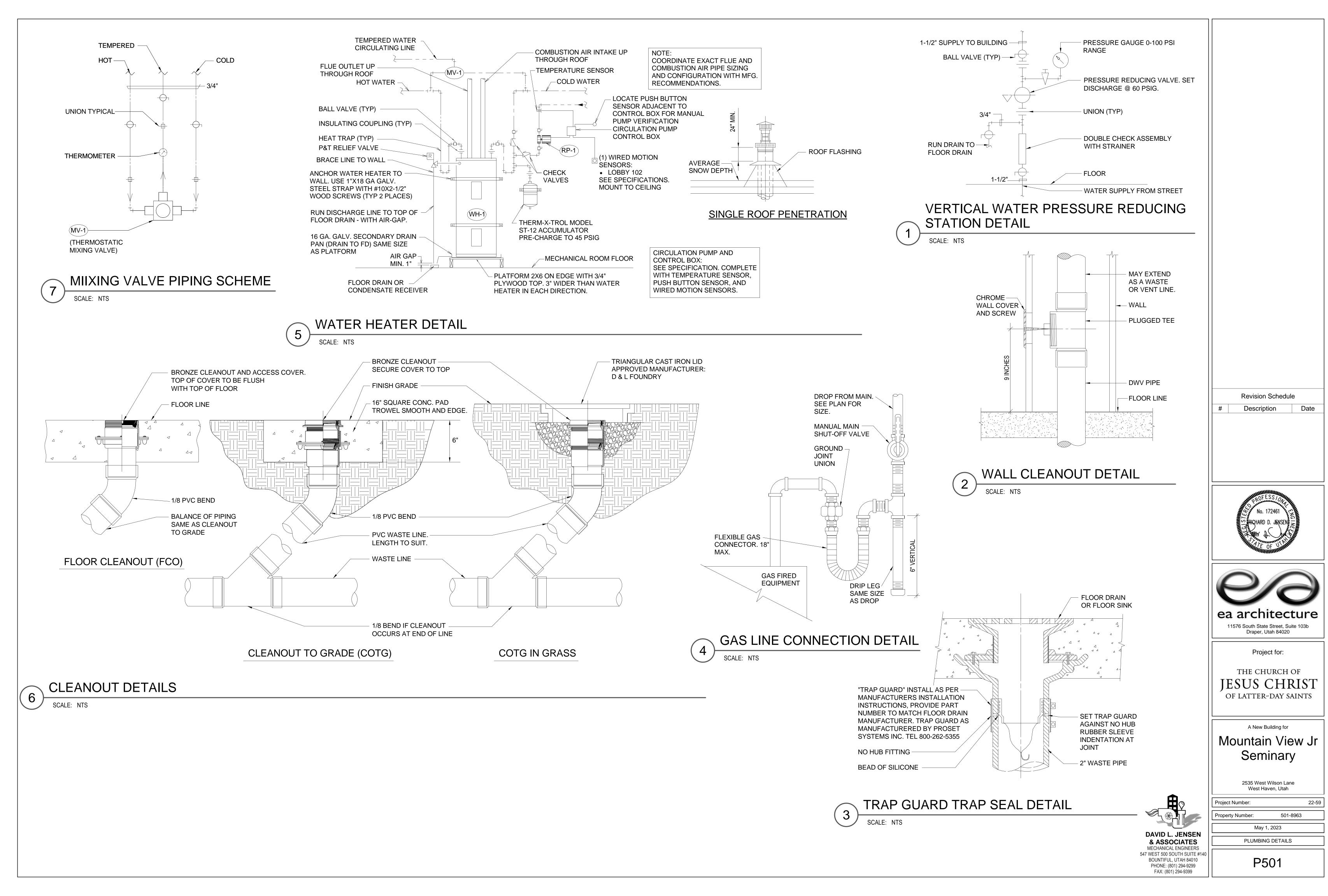
DAVID L. JENSEN
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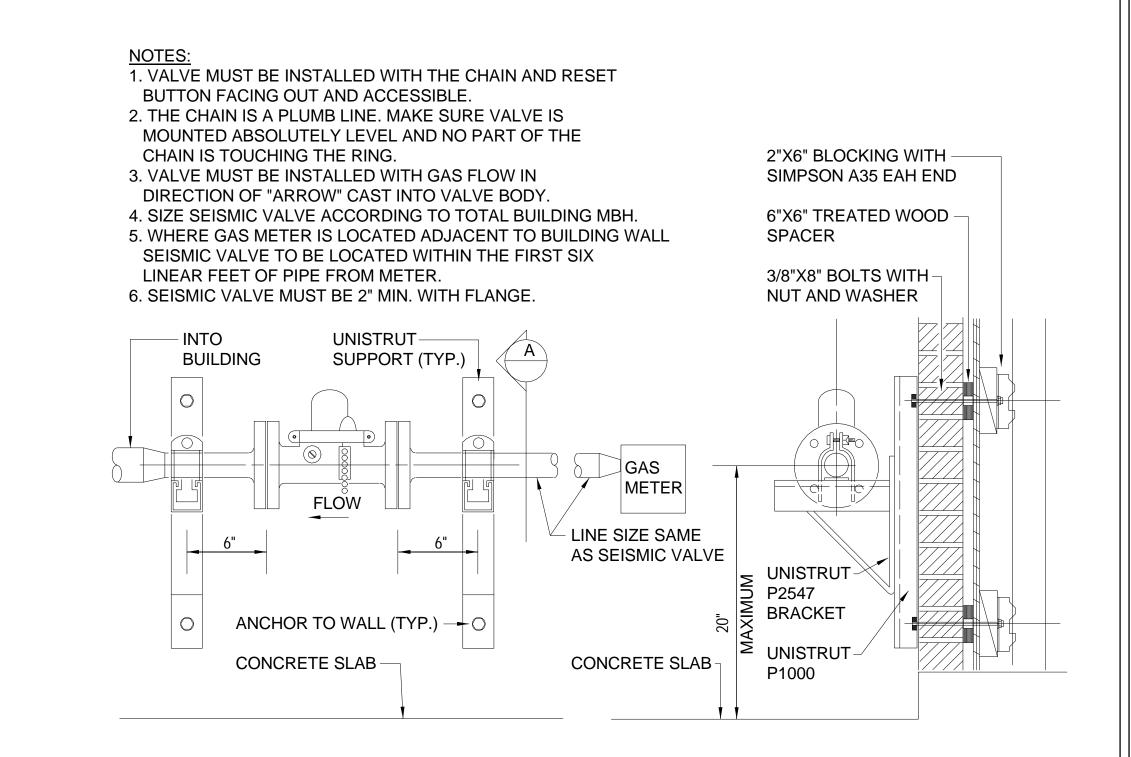
PL102

May 1, 2023

ROOF PLUMBING PLAN

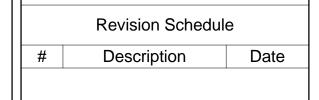
501-8963

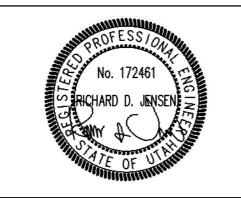




SEISMIC VALVE DETAIL

SCALE: NTS







Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

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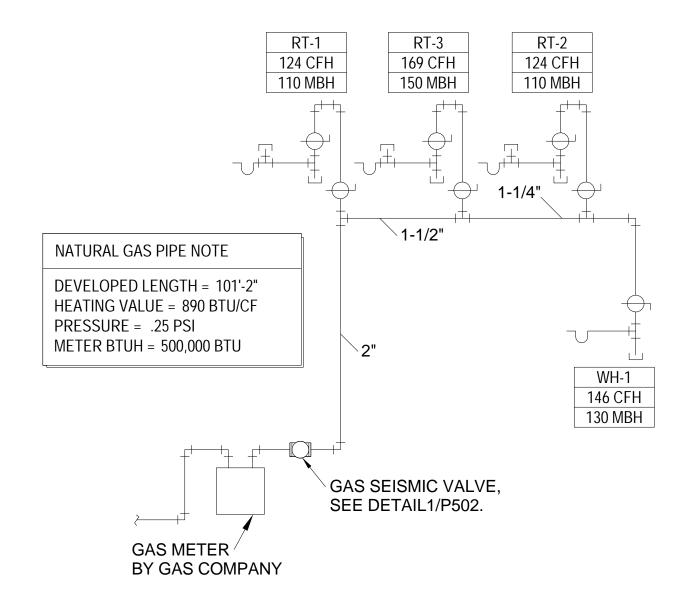
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501-8963 Property Number: May 1, 2023 PLUMBING DETAILS

P502

		WATER SUPPLY &	DRAINA	GE	FIXTU	IRE	UNI	TS	
FIXTURE		S PER 2018 INTERNATIONAL PLUMB							
MARK	Count	FIXTURE	CWFU EACH		DRAINAGE FU EACH		1	DOMESTIC FU TOTAL	DRAINAGE FU TOTAL
DF-1	1	DRINKING FOUNTAIN	0.25	0	0.5	0.25	0	0.25	0.5
FD-1	4	FLOOR DRAIN	0	0	2	0	0	0	8
HA-1	1	HAMMER ARRESTOR	0	0	0	0	0	0	0
L-1	3	LAVATORY	0	1.5	1	0	4.5	4.5	3
MV-1	1	MIXING VALVE	0	0	0	0	0	0	0
RP-1	1	RECIRCULATION PUMP	0	0	0	0	0	0	0
S-1	1	SINK	3	3	2	3	3	6	2
SS-1	1	SERVICE SINK	2.25	2.25	5	2.25	2.25	4.5	5
U-1	3	URINAL	3	0	2	9	0	9	6
WC-1	3	WATER CLOSET	10	0	4	30	0	30	12
WH-1	1	WATER HEATER	0	0	0	0	0	0	0
Grand tota	al: 20					44.5	9.75	54.25	36.5

1	NATURAL GAS LOAD SUMMARY									
NOTES:										
1) PRESSURE = 0.2	25 PSI.									
2) HEATING VALUE	E = 890 BTU/CF									
	MECHANICAL	PLUMBING					PIPE			
ITEM	MARK	MARK	COUNT	SERVICE	BTU/H	CFH	SIZE			
ROOFTOP UNIT	RT-1		1	BUILDING HEAT	110,000	124	1"			
ROOFTOP UNIT	RT-2		1	BUILDING HEAT	110,000	124	1"			
ROOFTOP UNIT	RT-3		1	BUILDING HEAT	150,000	169	1"			
WATER HEATER		WH-1	1	WATER HEAT	130,000	146	1"			
TOTAL					500,000	562				



NATURAL GAS SCHEMATIC

SCALE: NTS

PLUMBING FIXTURE SCHEDULE

NOTES:

(1) COMBINATION DRAIN AND VENT.

(2) PROVIDE TMV COMPLYING WITH ASSE 1070. SET DISCHARGE TO 110 DEG F. TEMPERED WATER SERVES ALL LAVATORIES.

(3) MINIMUM SIZE OF DRAIN/WASTE PIPING UNDERFLOOR IS 2".

(4) TRAP GUARD COMPLYING WITH ASSE 1072.

(5) ELONGATED TYPE, OPEN FRONT SEAT.

(6) INFRARED, HARDWIRED (115V/1PH).

(6) INFRARED, HARDWIRED (115V/1PH).

(8) 115V/1PH.

(9) WITH BOTTLE FILLER AND FILTER.

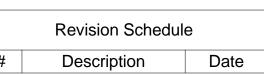
(10) DISTANCE FROM HEATED WATER SOURCE SHALL NOT EXCEED 2' PER IECC C404.5.

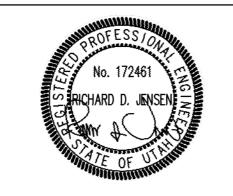
(11) CONTROL WITH STRAP-ON-STAT SET TO 104 DEG F AND FLOW SENSOR PER IECC C404.7.

(12) 2.5 GPM AT 25 FT WG.

(13) FURNISH WITH DISPOSER, 0.75 HP, 115V/1PH.

		PIPE S	IZES, IN.				
MARK	FIXTURE	TRAP	DRAIN/WASTE	VENT	CW	HW	NOTES
DF-1	DRINKING FOUNTAIN	1 1/2"	1 1/2"	1 1/2"	1/2"		BI-LEVEL, ADA (8)(9)
FD-1	FLOOR DRAIN	2"	2"				(1)(4)
HA-1	HAMMER ARRESTOR				1 1/4"		
L-1	LAVATORY	1 1/4"	1 1/2"	1 1/2"		1/2"	WALL MTD, ADA, 0.5GPM (6)(10)
MV-1	MIXING VALVE				3/4"	3/4"	(2)
RP-1	RECIRCULATION PUMP					3/4"	.17 HP, 3 SPEED (8)(11)(12)
S-1	SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	1 COMP, ADA, SS (13)
SS-1	SERVICE SINK	3"	3"	2"	1/2"	1/2"	
U-1	URINAL		2"	2"	3/4"		WALL MTD, ADA, 0.5GPF (7)
WC-1	WATER CLOSET		4"	2"	1"		FLOOR MTD, FV, ADA, 1.28GPF (5)(7)
WH-1	WATER HEATER				1"	1"	34 GALLON, 130 MBH, 96% T.E (8)







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PLUMBING SCHEDULES

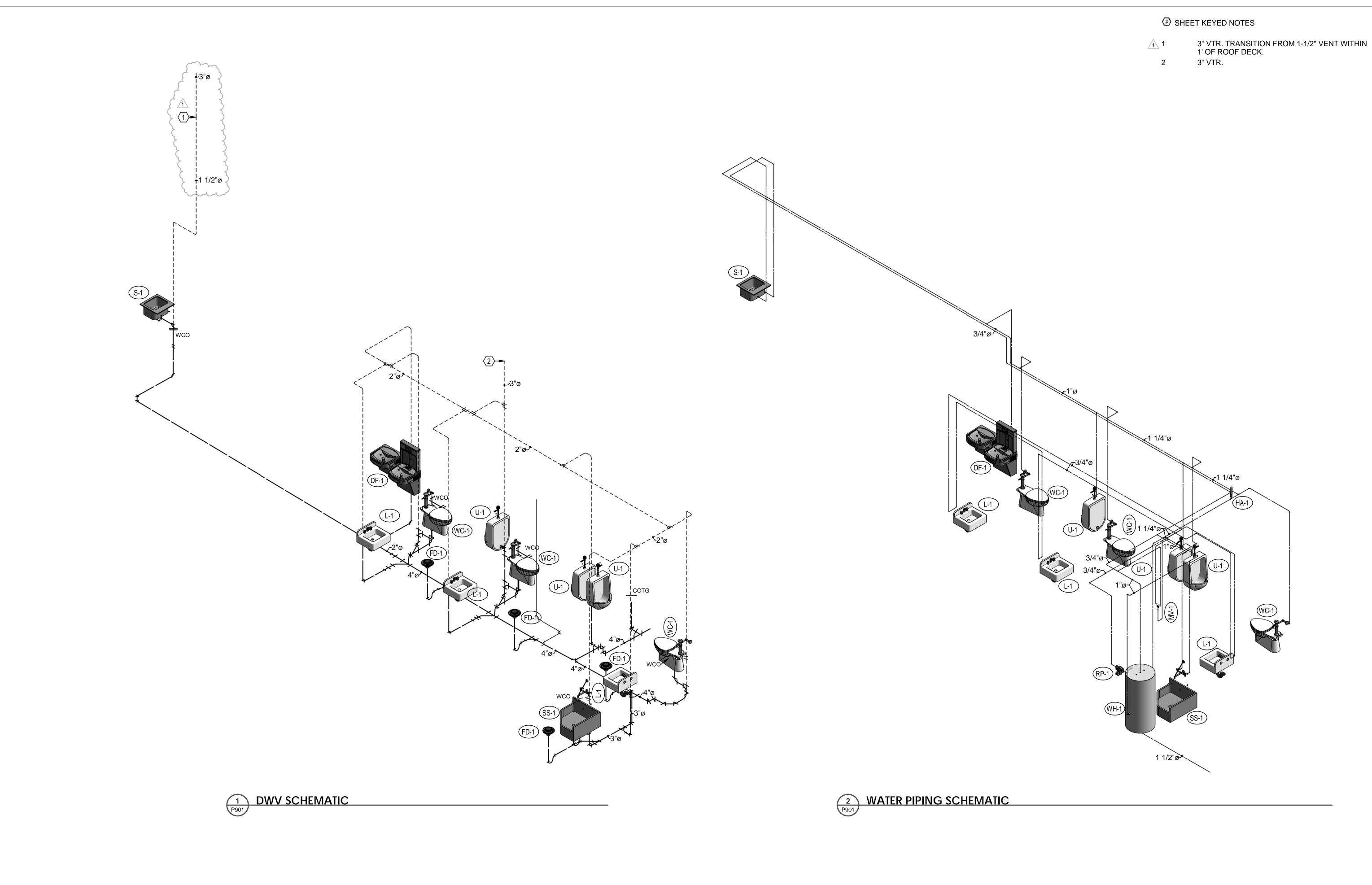
Project Number:

Property Number:

P601

May 1, 2023

501-8963



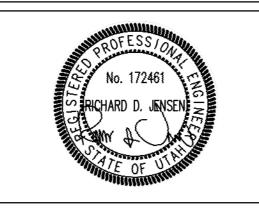


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Revision Schedule

AEC COMMENTS 05-26-23

Description





Project for:

THE CHURCH OF JESUS CHRIST
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2535 West Wilson Lane West Haven, Utah

501-8963 Property Number:

DWV AND WATER SUPPLY PIPING
SCHEMATIC

May 1, 2023

P901

HVAC GENERAL NOTES

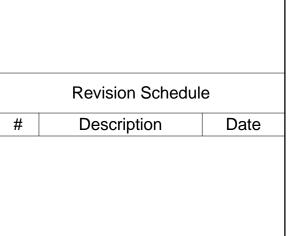
- CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION.
- THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES AND PAY FEES CONNECTED THEREWITH.
- BIDDERS SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS SURROUNDING THE PROJECT PRIOR TO BIDDING.
- THE CONTRACTOR IS REFERRED TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE CONTRACT DOCUMENTS.
- DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS.
- 6. ALL MECHANICAL HVAC WORK SHALL BE PREFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING STATE MECHANICAL/PLUMBING AND BUILDING CODES AS WELL AS ALL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE THE MORE STRINGENT SHALL APPLY.
- DIFFUSER RUN OUTS SHALL BE THE SAME AS LISTED DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED.

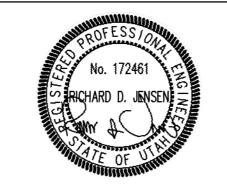
- 8. COORDINATE EXACT LOCATION OF AIR DISTRIBUTION DEVICES WITH CEILING GRID AND LIGHT FIXTURE LAYOUT.
- 9. ALL RECTANGULAR SUPPLY DUCT ELBOWS SHALL HAVE TURNING VANES.
- 10. RECTANGULAR DUCT SIZES SHOWN INDICATE REQUIRED AIRFLOW SIZES. SHEETMETAL CONTRACTOR SHALL INCREASE SIZES TO ALLOW FOR LINER.
- 11. NO DUCTWORK SHALL BE FABRICATED WITHOUT FIRST FIELD VERIFYING THAT THE AVAILABLE SPACE UNDER ACTUAL JOB CONDITIONS WILL PERMIT INSTALLATION OF THE DUCTWORK WITHOUT STRUCTURAL OR OTHER CONFLICTS. DUCT SIZES THAT REQUIRE ON THE JOB MODIFICATION DUE TO UNFORESEEN OBSTRUCTIONS SHALL BE MADE WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- 12. MAINTAIN A 10'-0" BETWEEN OUTSIDE AIR INTAKES AND PLUMBING/EXHAUST VENTS.
- 13. WHERE RATED ASSEMBLIES ARE PENETRATED BY DUCTS, PIPES OR OTHER ITEMS, THE "F" AND "T" RATING SHALL BE MAINTAINED WITH REQUIRED UL LISTED ASSEMBLIES OR SEALANTS AS REQUIRED BY THE APPLICABLE CODE OR AUTHORITY HAVING JURISDICTION.

			MECHANICAL A	RRRE	/IATIONS		
AD	ACCESS DOOR	DEG	DEGREE FAHRENHEIT	HPS	HIGH PRESSURE STEAM	PD	PRESSURE DROP
AFF	ABOVE FINISHED FLOOR	DEMO	DEMOLITION	HR	HOUR	PERF	PERFORATE(D)
AHU	AIR HANDLING UNIT	DET	DETAIL	HTG	HEATING	PH	PHASE
All	ANALOG INPUT	DH	DUCT HEATER	HVAC	HEATING, VENTILATING & AIR	PLUM	PLUMBING
ALT	ALTERNATE	DI	DIGITAL INPUT		CONDITIONING	PPM	PARTS PER MILLION
AMB	ANBIENT	DIA	DIAMETER	HW	HOT WATER	PRV	PRESSURE REDUCING VALVE
AMP	AMPERE	DIM	DIMENSION	HWR	HOT WATER HEATING	PSI	POUNDS PER SQUARE INCH
ANSI		DIV	DIVISION	TIVVIX	RETURN	RA	RETURN AIR
ANOI	INSTITUTE	DMPR	DAMPER	HWS	HOT WATER HEATING	RAD	RADIATED
AO	ANALOG OUTPUT	DO	DIGITAL OUTPUT	11003	SUPPLY	RCP	RECIRCULATION PUMP
APD	AIR PRESSURE DROP	DRN	DRAIN	HZ	HERTZ	REF	ROOFTOP EXHAUST FAN
APPROX	APPROXIMATE	DKN	DOWNSPOUT	IN	INCHES	REQD	REQUIRED
ASME	AMERICAN SOCIETY OF	EA	EXHAUST AIR	INWC	INCHES OF WATER COLUMN	REV	REVISION
ASIVIE	MECHANICAL ENGINEERS	EF	EXHAUST FAN	INWG	INCHES OF WATER GOLDWIN		
A C1	ABOVE SEA LEVEL			IU	INDOOR UNIT	RH	RELATIVE HUMIDITY
ASL AVG	AVERAGE	EFF EQ	EFFICENCY EQUAL	KW		RL	REFRIGERANT LIQUID
		-	-		KILOWATT	RPBP	REDUCED PRESSURE
В	BOILER	EQUIP	EQUIPMENT	LAT	LEAVING AIR TEMPERATURE	DDM	BACKFLOW PREVENTER
BOD	BOTTOM OF DUCT	ERV	ENERGY RECOVERY	LBC	POUND	RPM	REVOLUTIONS PER MINUTE
BOP	BOTTOM OF PIPE	E0D	VENTILATION EXTERNAL STATIC PRESSURE	LPC	LOW PRESSURE	RS	REFRIGERANT SUCTION
BTU	BRITISH THERMAL UNIT	ESP		1.00	CONDENSATE	SA	SUPPLY AIR
BTU	BTU PER HOUR	ET	EXPANSION TANK	LPS	LOW PRESSURE STEAM	SCHED	SCHEDULE
С	COMMON	EWT	ENTERING WATER	LWT	LEAVING WATER	SEN	SENSIBLE
С	CONVECTOR	5 7711	TEMPERATURE	B 4 A 1 1	TEMPERATURE	SL	SEA LEVEL
CA	COMBUSTION AIR	EXH	EXHAUST	MAU	MAKEUP AIR UNIT	SPEC	SPECIFICATION
CAP	CAPACITY	EXT	EXISTING	MAX	MAXIMUM	SSHP	SPLIT SYSTEM HEAT PUMP
CC	COOLING COIL	F	FAHRENHEIT	MBH	THOUSAND BRITISH	STD	STANDARD
CEF	CEILING MTD EXHAUST FAN	F	FURNACE		THERMAL UNITS/HOUR	TEMP	TEMPERATURE
CFM	CUBIC FEET PER MINUTE	FCU	FAN COIL UNIT	MECH	MECHANICAL	TSP	TOTAL STATIC PRESSURE
CHWR	CHILLED WATER RETURN	FLR	FLOOR		MECHANICAL ROOM	TSTAT	THERMOSTAT
CHWS	CHILLED WATER SUPPLY	FLEX	FLEXIBLE	MFR	MANUFACTURER	TW	TEMPERED WATER
CO2	CARBON DIOXIDE	FO	FLAT OVAL	MIN	MINIMUM	TYP	TYPICAL
COMB	COMBUSTION	FPM	FEET PER MINUTE	MISC	MISCELLANEOUS	UH	UNIT HEATER
CONTR	CONTRACTOR		FAN POWERED VAV	MTD	MOUNTED	V	VOLT
CU	CONDENSING UNIT	FT	FEET	NC	NOISE CRITERIA	VAV	VARIABLE AIR VOLUME
CU FT	CUBIC FEET	GALV	GALVANIZED	NC	NORMALLY CLOSED	VD	VOLUME DAMPER
CU YD	CUBIC YARDS	GPM	GALLONS PER MINUTE	NIC	NOT IN CONTRACT	VERT	VERTICAL
CUH	CABINET UNIT HEATER	GHR	GLYCOL HEATING RETURN	NOM	NOMINAL	VFD	VARIABLE FREQUENCY DRIVE
CV	CONSTANT VOLUME	GHS	GLYCOL HEATING SUPPLY	NTS	NOT TO SCALE	VOL	VOLUME DAMPER
CW	COLD WATER	Н	FUME HOOD	OA	OUTSIDE AIR	W/	WITH
CWR	CONDENSOR WATER RETURN	HORIZ	HORIZANTAL	OBD	OPPOSED BLADE DAMPER	W/O	WITHOUT
CWS	CONDENSOR WATER SUPPLY	HP	HIGH PRESSURE	OU	OUTDOOR UNIT	WB	WET BULB
DB	DRY BULB	HP	HORSEPOWER	Р	PUMP	WPD	WATER PRESSURE DROP
DD	DUAL DUCT BOX	HP	HEAT PUMP	PCF	POUNDS PER CUBIC FEET		

M	IECHANICAL SHEET INDEX
M001	MECHANICAL LEGEND AND GENERAL NOTES
MH101	MECHANICAL FLOOR PLAN
MH102	ROOF MECHANICAL PLAN
M501	MECHANICAL DETAILS
M502	MECHANICAL DETAILS
M601	MECHANICAL SCHEDULES
ME101	MECANICAL CONTROL PLAN
ME701	AUTOMATIC TEMPERATURE CONTROLS
ME702	AUTOMATIC TEMPERATURE CONTROLS
ME703	AUTOMATIC TEMPERATURE CONTROL WIRING

		MECHA	NICAL LEGEND		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\mathbb{R}	AUTOMATIC 2-WAY VALVE		UNION		BRANCH DUCT TAKE-OFF WITH MANUAL DAMPER
\mathbb{Z}	AUTOMATIC 3-WAY VALVE		VENTURI		
Ç	AUTOMATIC BALL FLOAT VENT	WFS	WATER FLOW SWITCH		DUCT FLEXIBLE CONNECTION
$\overline{\Diamond}$	BALL VALVE	CWS	CONDENSER WATER SUPPLY		TURNING VANES
	CAPPED END W/BALL VALVE	CWR	CONDENSER WATER RETURN	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
	CHECK VALVE	CHWS	CHILLED WATER SUPPLY		DUCT TEE CONNECTION
\bigotimes	COMBINATION BALANCING VALVE/ SHUTOFF	CHWR	CHILLED WATER RETURN		DUCT TRANSITION
∇	DEVICE IN DROP	HWS	HOT WATER HTG. SUPPLY		SQUARE TO ROUND DUCT TRANSITIO
	DIRECTION OF SLOPE	HWR	HOT WATER HTG. RETURN		AUTOMATIC DAMPER
	FLANGED BUTTERFLY VALVE	———HPS———	HIGH PRESSURE STEAM PIPING		VOLUME DAMPER
	FLANGED ECCENTRIC REDUCER	LPS	LOW PRESSURE STEAM PIPING	BD	BACK-DRAFT DAMPER
	FLANGED UNION	LPC	LOW PRESSURE CONDENSATE PIPING		DUCT ACCESS DOOR
	FLEXIBLE CONNECTION	———GHS———	GLYCOL HEATING SUPPLY PIPING		RETURN AIR, RISE AND DROP
<u> </u>	FLOW DIRECTION	GHR	GLYCOL HEATING RETURN PIPING		SUPPLY AIR, RISE AND DROP EXHAUST AIR, RISE AND DROP
(FM)	FLOW METER	——— RL ———	REFRIGERANT PIPING - LIQUID		OUTSIDE AIR, RISE AND DROP
	GATE VALVE	RS	REFRIGERANT PIPING - SUCTION		RELIEF AIR, RISE AND DROP
Ā	GLOBE VALVE	A	REFRIGERANT SHUT-OFF VALVE		ROUND DUCT, RISE AND DROP
Ţ	IMMERSION WELL	4	EXPANSION VALVE		FLAT OVAL DUCT, RISE AND DROP
	INLINE PUMP		MOISTURE INDICATING SIGHT GLASS		FLAT OVAL DUCT
\	MANUAL VENT WITH BALL VALVE		FLEXIBLE CONNECTION	FD FSD	FIRE DAMPER FIRE SMOKE DAMPER
#	P & T PLUG IN IMMERSION WELL	F	FILTER DRIER	{}	FLEXIBLE DUCT
C+	PIPE DROP	*	PIPE SUPPORT	X-#	AIR DEVICE
	PIPE INLINE DROP		EXTERIOR PIPE SUPPORT	X-# #	AIR DEVICE CFM
+ () +	PIPE INLINE RISE		EXTERIOR PIPE SUPPORT		KEYED NOTE
+	PIPE RISER		DIRECTION OF SLOPE DOWN	X-#	EQUIPMENT CALLOUT
Ŕ	PNEUMATIC 2-WAY VALVE	s	SUCTION LINE	X S#	DETAIL NUMBER SHEET DETAIL APPEARS
\bigcirc	PRESSURE GUAGE		LIQUID LINE	#	LARGE SCALE NUMBER
Ø	PRESSURE GAGE W/BALL VALVE		TRAP. ONE PIECE FACTORY FABRICATED	S#	SHEET LARGE SCALE APPEARS
R	RELIEF VALVE	(T)	THERMOSTAT	1	AIR FLOW DIRECTION
	SCREWED CONCENTRIC REDUCER	S	SENSOR	TOP	SECTION LETTER
	STEAM TRAP	CO2	CO2 SENSOR	BOT	SHEET NUMBER
	STRAINER	J	J-BOX	ROOM NO	ROOM NAME ROOM NUMBER
+ + + + + + + + + +	THERMOMETER	<u>/</u> #\	REVISION DELTA		ACCESS DOOR
	THREADED HOSE CONNECTION	•	NEW CONNECTION	_	







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& ASSOCIATES MECHANICAL ENGINEERS 547 WEST 500 SOUTH SUITE #140

May 1, 2023 MECHANICAL LEGEND AND GENERAL

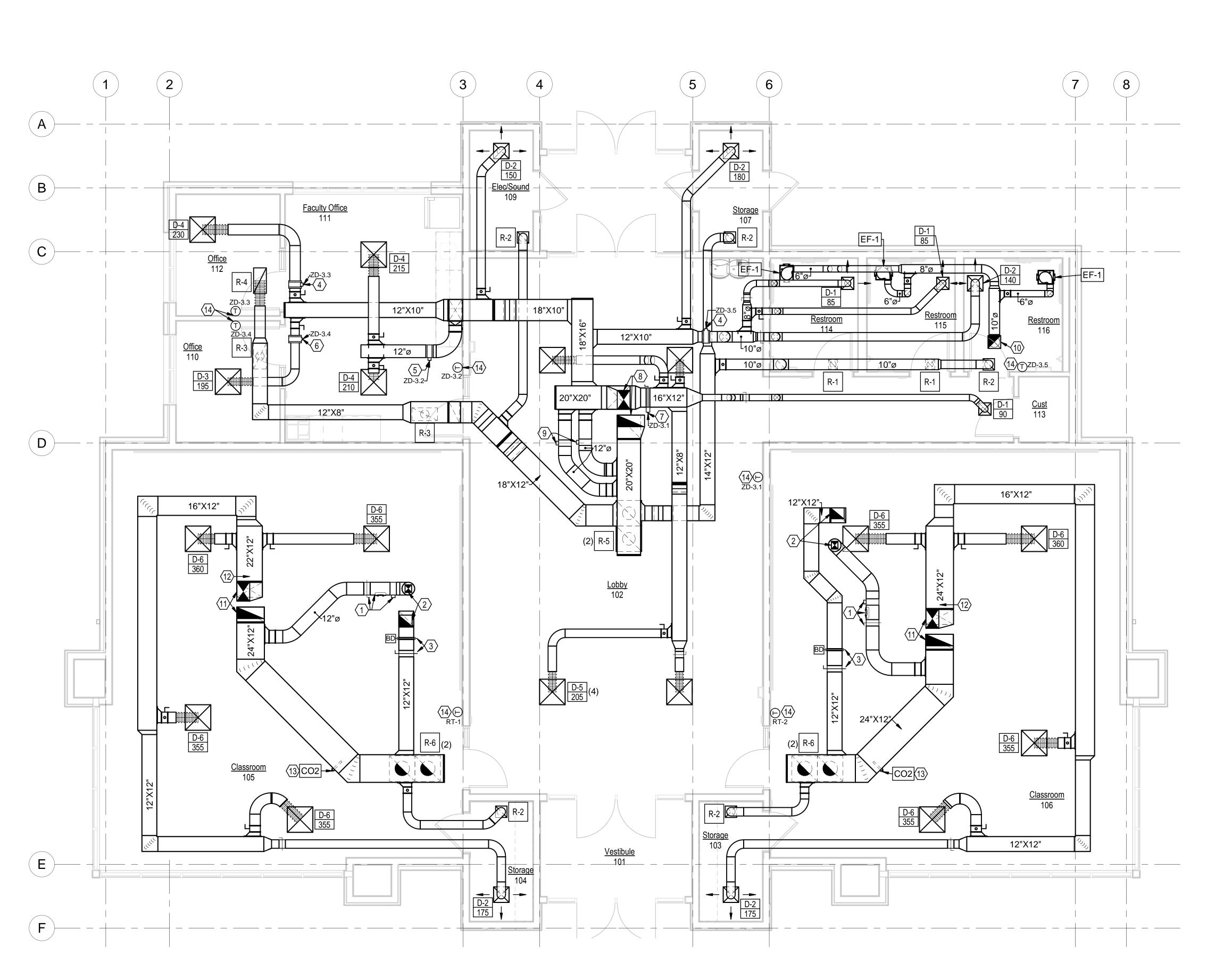
M001

501-8963



BOUNTIFUL, UTAH 84010

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MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

SHEET KEYED NOTES

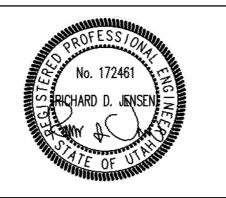
- 1 12" DIA FA MANUAL AND MOTORIZED DAMPERS, DUCT ACCESS DOOR.
- 2 12"X12" RA, 12" DIA FA DUCT UP TO ERV. TRANSITION TO ERV OPENING SIZES IN RISE.
- 12"X12" BACKDRAFT AND BALANCING DAMPERS.
- 4 10" DIA. ZONE DAMPER.
- 5 12" DIA. ZONE DAMPER.
- 6 8" DIA. ZONE DAMPER.
- 7 16"X12" ZONE DAMPER.
- 20"X20" SA/RA DUCT UP. TRANSITION TO ROOFTOP OPENING SIZES IN RISE.
- TWO 12" DIA. BYPASS DAMPERS. RELIEF
- 12"X12" EA DUCT UP TO PENTHOUSE.

STATIC PRESSURE SETPOINTS TO MATCH.

- 11 24"X12" SA/RA DUCT UP, TRANSITION TO ROOFTOP OPENING SIZES IN RISE.
- 12 LOCATE SUPPLY AIR TEMPERATURE SENSOR
- WITHIN 3'-0" OF DUCT DROP FROM ROOFTOP.
- 13 LOCATE DUCT MOUNTED CO2 SENSOR WITHIN 5'-0" OF NEAREST RETURN GRILLE.
- DDC THERMOSTAT. SEE
- SPECIFICATION/CONTROL DRAWINGS.

Revision Schedule

Description Date





Project for:

THE CHURCH OF

JESUS CHRIST
OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

DAVID L. JENSEN
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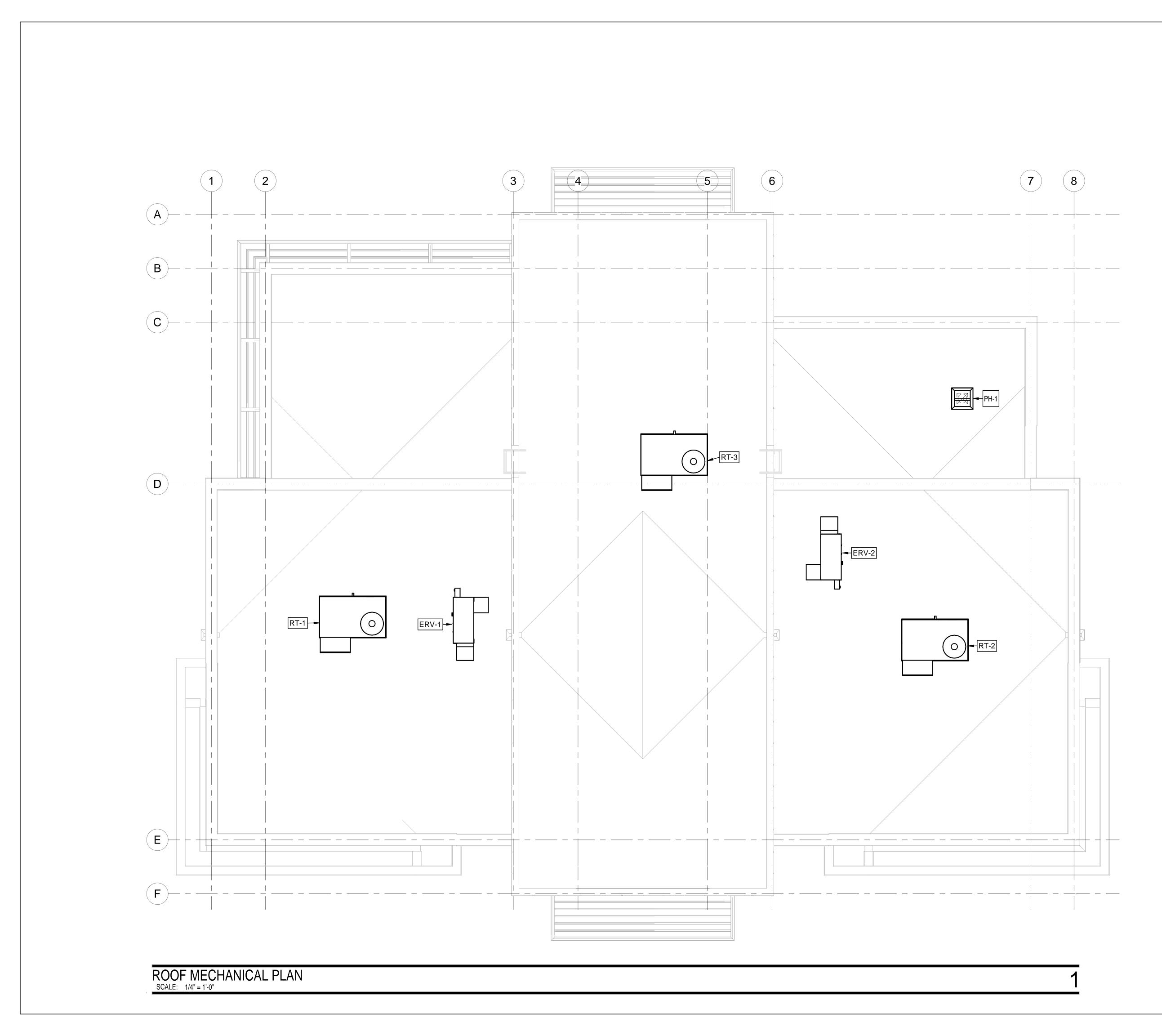
Property Number: 501-8963

May 1, 2023

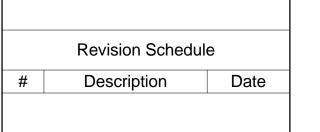
MECHANICAL FLOOR PLAN

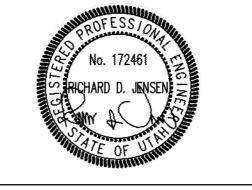
MECHANICAL FLOOR PLAN

MH101











Project for:

THE CHURCH OF

JESUS CHRIST

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> 2535 West Wilson Lane West Haven, Utah

Project Number:

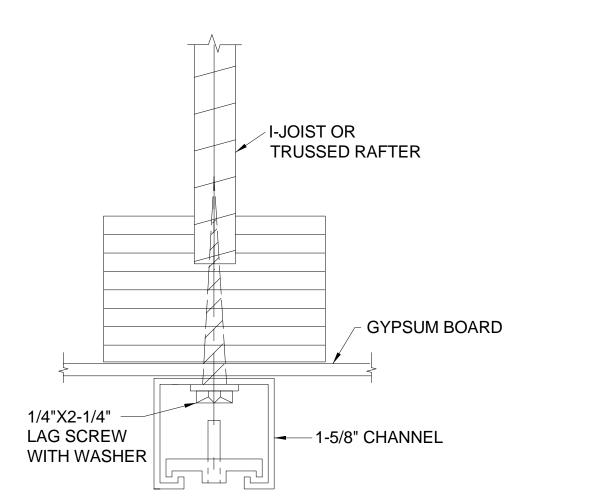
Property Number: 501-8963

JENSEN
CIATES

ROOF MECHANICAL PLAN

MH102

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ROOF INSULATION

1/2" A307 THROUGH BOLTS

SEE SCHEDULE BELOW FOR

RTU BOLT SCHEDULE

2900

3610

(4) ½"Ø

(4) ½"Ø

QUANTITY AND LAYOUT

AT SHORT END

7.5-12.5

PENTHOUSE

INSULATED

ROOF CURB

FLASH AND

INSULATION

TYP. OF 4 LOCATIONS

COUNTERFLASH

ROOF DECK

1/2"DIA A307 THROUGH BOLTS

MANUFACTURERS

17.5

*NOTE: PROVIDE ADDITIONAL BOLTS AS NEEDED TO MEET THE FOLLOWING LAYOUT

48"O.C. MAX.

- (1) BOLT MINIMUM REQUIRED WITHIN 6" OF EACH CORNER - MAXIMUM SPACING BETWEEN BOLTS SHALL NOT EXCEED 48"

UNIT LONG DIMENSION

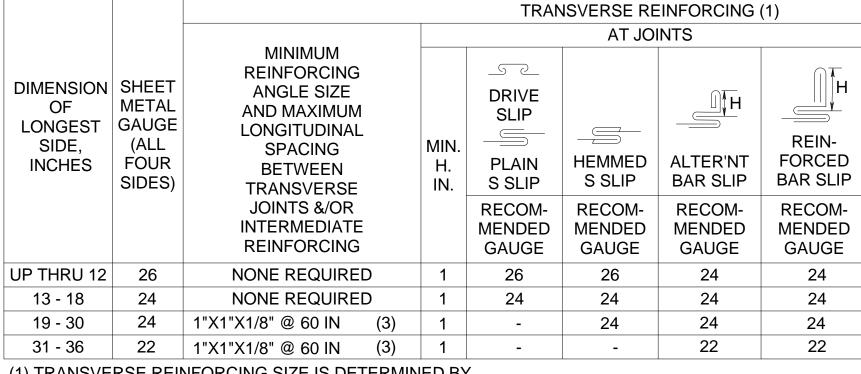
- NO BOLTS REQUIRED AT SHORT END OF UNIT

STEEL ANGLE SEE-

STRUCTURAL DRAWINGS

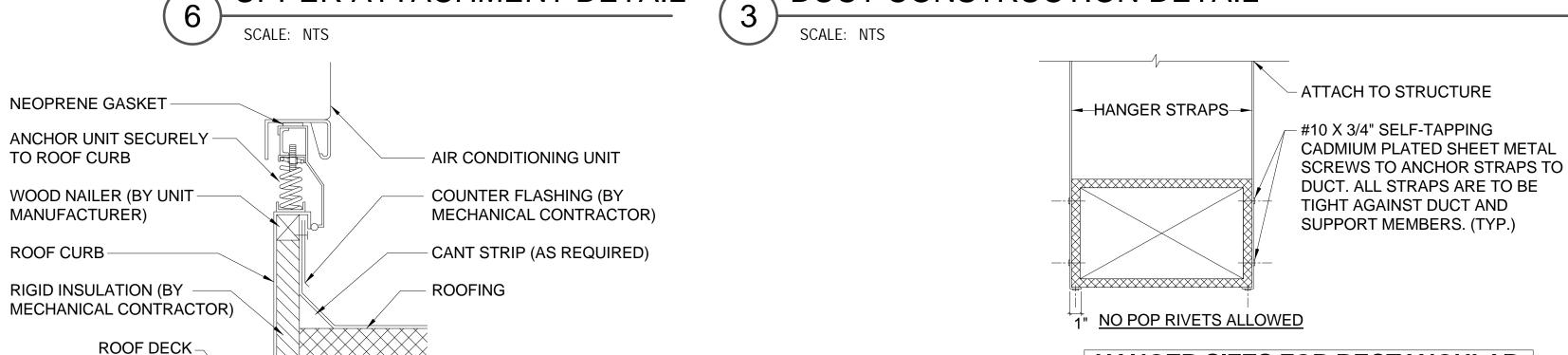
ROOFTOP UNIT DETAIL

NO BOLTS REQUIRED



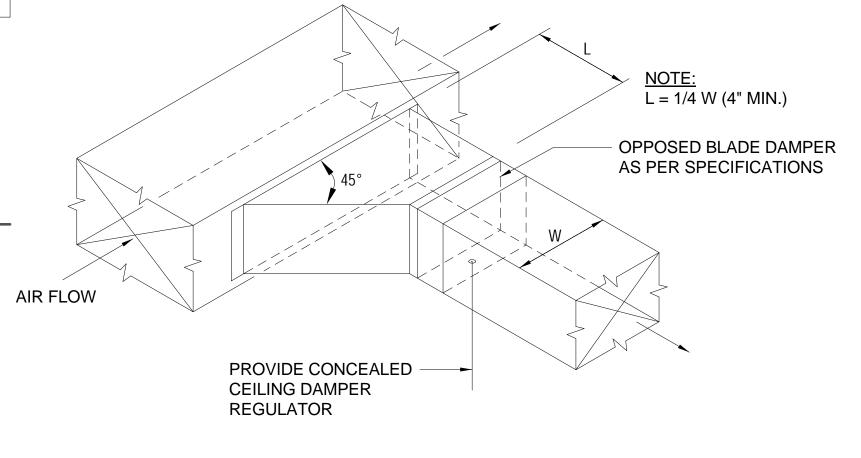
- (1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLICABLE
- (2) LONGITUDINAL JOINTS TO BE PITTSBURGH OR SNAP LOCK TYPE.
- (3) IF BAR SLIP OR REINFORCED BAR SLIP JOINTS ARE USED, ANGLE IRON REINFORCING SHALL NOT BE REQUIRED.

DUCT CONSTRUCTION DETAIL UPPER ATTACHMENT DETAIL



HANGER SIZES FOR RECTANGULAR DUCT										
MAX. SIDE	HANGER	HORIZANTAL SUPPORT ANGLE	MAXIMUM SPACING							
30"	1"X18 GAGE STRAP	NONE REQUIRED	8'-0"							
38"	1/4" ROUND ROD	1-1/2"X1-1/2"X1/8"	8'-0"							
48"	1/4" ROUND ROD	2"X2"X1/8"	8'-0"							
60"	5/16" ROUND ROD	2"X2"X1/8"	8'-0"							
84"	3/6" ROUND ROD	2"X2"X1/8"	8'-0"							

SIZE TON WEIGHT MIN. # BOLTS* $(4) \frac{1}{2}$ "Ø **DUCT STRAP HANGER DETAIL** $(4) \frac{1}{2}$ "Ø 1500 (4) ½"Ø 2880 SCALE: NTS



1	BRANCH DUCT TAKE-OFF & DAMPER DETAIL
- 1	

DUCT LINER -GALV.IRON DUCT-TOP AND BOTTOM SECTION OF LINER SHALL OVERLAP THE SIDES - LINER TO BE ADHERED TO DUCT W/100% ADHESIVE (MIRACLE PF 96) METAL FASTENERS: ALL ENDS OF LINER TO BE OMARK INSUL-PINS, DURO DYNE NOT MORE THAN 2" COATED W/ADHESIVE. FASTENERS OR GRIP NAILS.

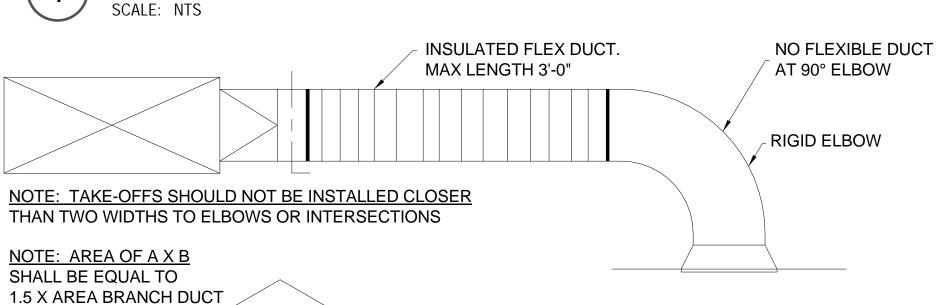
(MIRACLE PF 96)

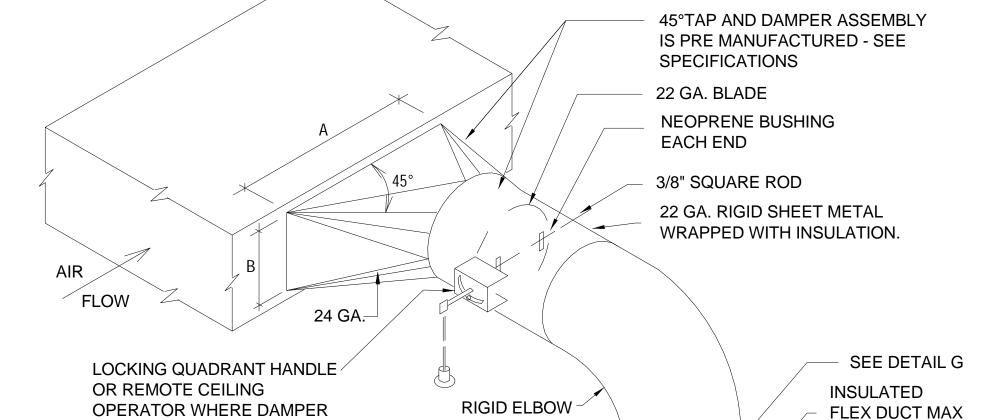
ENDS OF LINER SHALL BE BUTTED FIRMLY TOGETHER

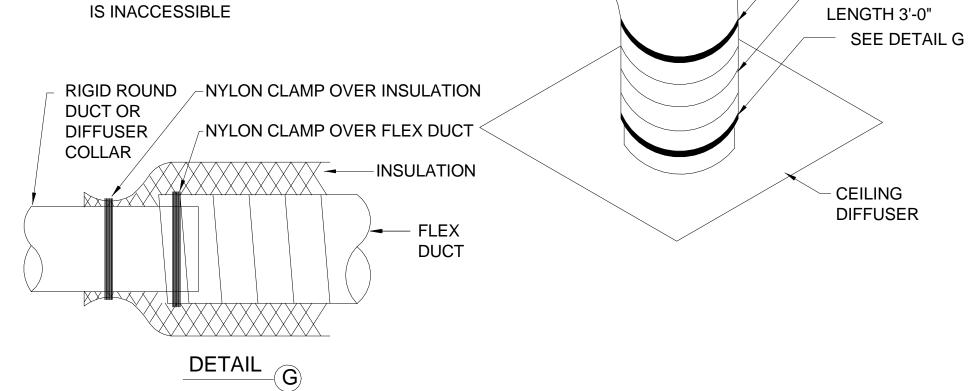
GRIP NAILS SHALL BE INSTALLED BY "GRIPNAIL AIR HAMMER" OR BY "AUTOMATIC FASTENER EQUIP."



FROM EDGE OF LINER







SQUARE TO ROUND TAKE-OFF DETAIL SCALE: NTS

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ea architecture 11576 South State Street, Suite 103b Draper, Utah 84020

Revision Schedule

Date

Description

Project for: THE CHURCH OF

JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

Property Number: 501-8963 May 1, 2023 MECHANICAL DETAILS

Project Number

M501

EXHAUST PENTHOUSE DETAIL

ANCHOR ROOF CURB

SECURELY TO ROOF

STRUCTURAL DRAWINGS

REQUIREMENTS:

SCALE: NTS

STEEL ANGLE SEE

STRUCTURE.

UNIT SHORT
DIMENSION

DUCT

SCALE: NTS

BIRDSCREEN

ANCHOR-

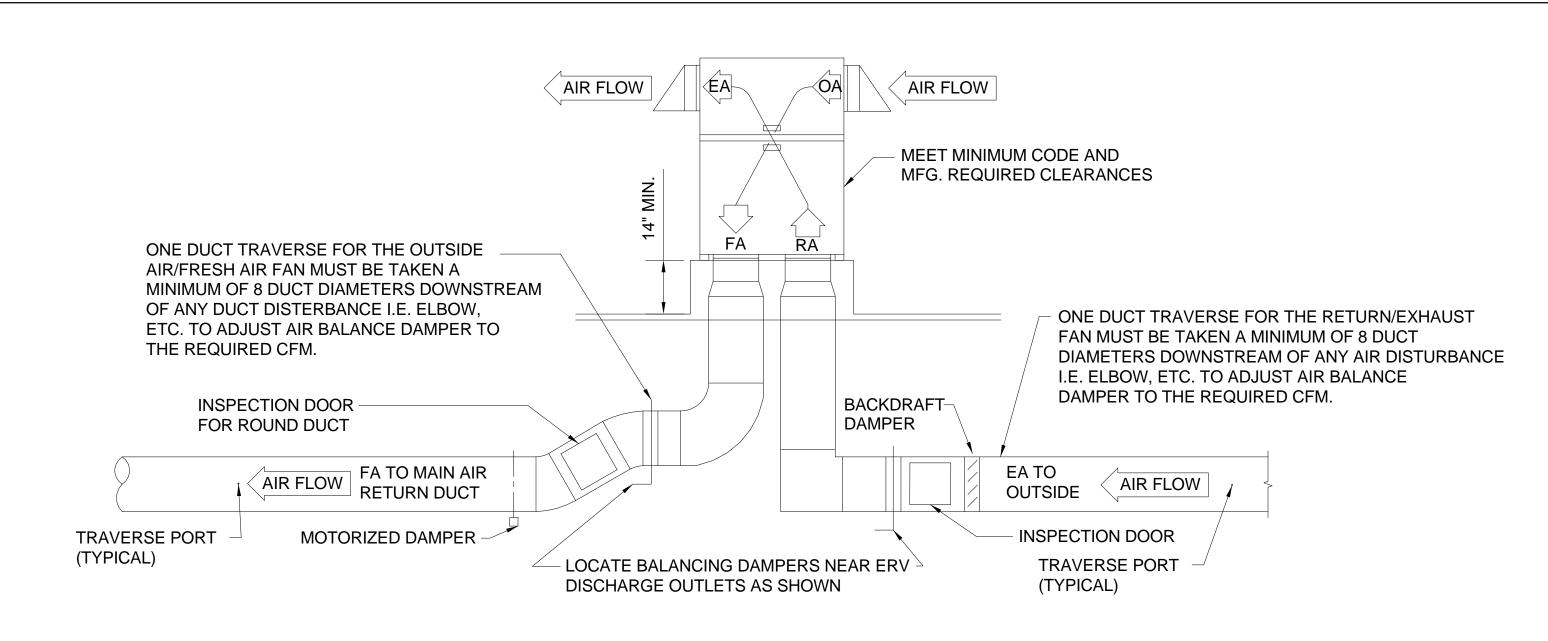
UNIT TO

BACKDRAFT

ROOFING \

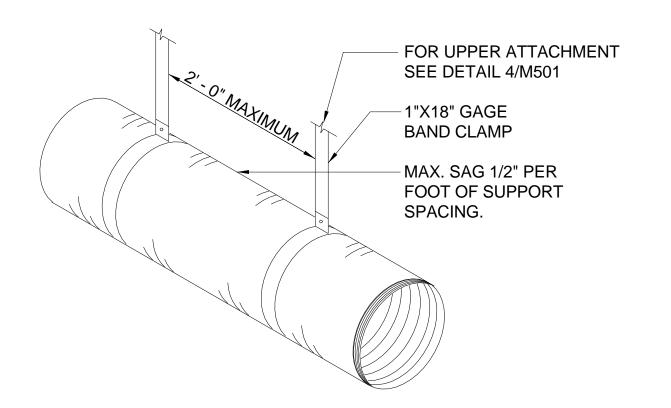
DAMPER

CURB

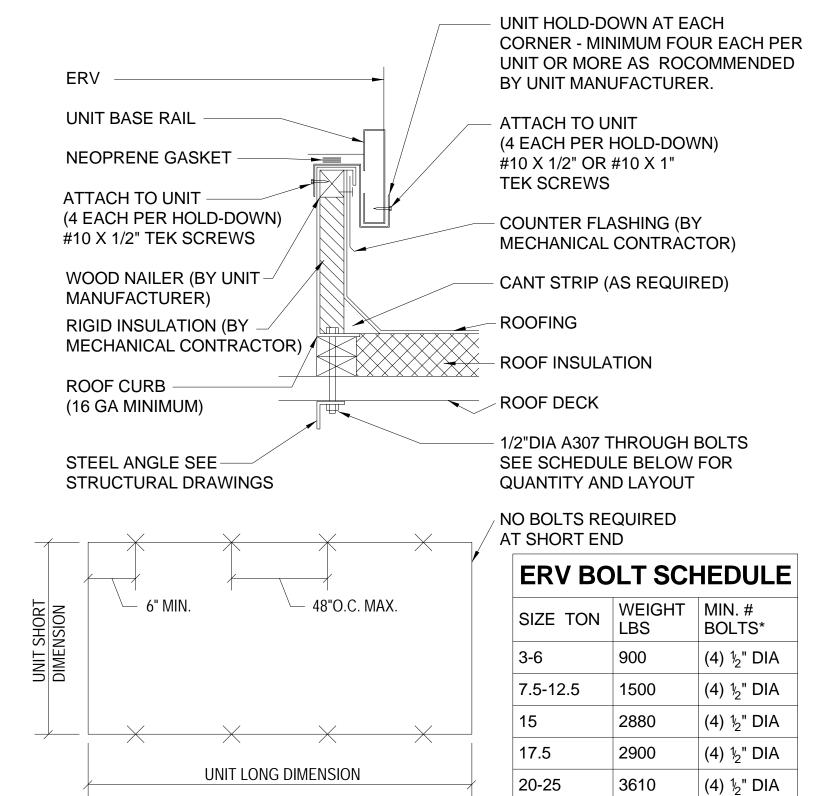


ERV DAMPERING DETAIL

SCALE: NTS



FLEXIBLE DUCT SUPPORT DETAIL



*NOTE: PROVIDE ADDITIONAL BOLTS AS NEEDED TO MEET THE FOLLOWING LAYOUT REQUIREMENTS:

- (1) BOLT MINIMUM REQUIRED WITHIN 6" OF EACH CORNER

- MAXIMUM SPACING BETWEEN BOLTS SHALL NOT EXCEED 48"

- NO BOLTS REQUIRED AT SHORT END OF UNIT





DAVID L. JENSEN & ASSOCIATES

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Revision Schedule

Date

Description



ea architecture 11576 South State Street, Suite 103b Draper, Utah 84020

Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

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Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

22-59 Project Number: Property Number: 501-8963 May 1, 2023

M502

MECHANICAL DETAILS

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

NOTES:

(1) SITE ELEVATION = 4220 FT. ASL.

(2) SUMMER DESIGN TEMPERATURE= 95 DEG F.

(3) MIMIMUM OUTSIDE AIR HOOD WITH MOTORIZED DAMPER 2-2.5 TONS. INTEGRATED ECONOMIZER AND FDD WITH BAROMETRIC RELIEF 3-6 TONS. INTEGRATED ECONOMIZER AND FDD WITH CENTRIFUGAL MODULATING POWER RELIEF 7.5 TONS AND LARGER.

(4) SMOKE DETECTOR WITH FAN SHUTDOWN ON SYSTEMS GREATER THAN 2000 CFM BY DIVISION 26, INSTALLATION BY DIVISION 23.

(5) SEA LEVEL.

(6) MODULATE SUPPLY AIR AS A FUNCTION OF LOAD PER IECC C403.8.5. APPLIES TO UNITS 6 TONS AND LARGER.

(7) MINIMUM OUTSIDE AIR TO BE PROVIDED TO RA DUCT BY ERV, SEE MH101. ROOFTOP TO PROVIDE OA IN ECONOMIZING MODE ONLY.

					F	AN			HEATI	NG					COOLING	(2)						E	LECTRICA	AL							
																CAPAC	ITY, MBH														
				S.P. IN					INPUT	, OUTPUT,		LAT, DFG		COMB EFF	NOMINAL				WB, DEG							FII TFR	 WEIGHT,	MINIMUM O.A.			
М	ARK	COUNT	SERVES	CFM W.G.		HP E	BHP TYPE		MBH	MBH (5)	F		STAGES			TOTAL	SENSIBL			GESRE	EFR ((S)EER N	1CA MOC	PVOLTS					MANUFACTURER	MODEL	NOTES
<u>√</u> R	T-1 1	1	105 CLASSROOM	1,600 0.625		1	I.06 VANE AXIAL	ECM DIRECT	110	88	62.4	111.7	2	80	4	36.56	33.86	82.1	58.6 2	R-	-410A ⁻	17.4 3	3 45	200	3	8	750	0	CARRIER	48GC05	(1)(3)(4)(7)
<u></u> AR	T-2 1	1	106 CLASSROOM	1,600 0.625		1	I.06 VANE AXIAL	ECM DIRECT	110	88	62.4	111.7	2	80	4	40.906	37.906	81.2	58.3 2	R-	-410A ¹	17.4 3	3 45	200	3	8	750	0	CARRIER	48GC05	(1)(3)(4)(7)
R	T-3 1	1	102 LOBBY	2,400 0.625		1	1.76 VANE AXIAL	ECM DIRECT	150	120	63.9	108.8	2	80	6	56.6	53.4	78.0	57.0 2	R-	-410A ⁻	11 3	0 45	200	3	8	840	225	CARRIER	48FC07	(1)(3)(4)

ENERGY RECOVERY VENTILATOR SCHEDULE

NOTES:

(1) SITE ELEVATION= 4220 FT ASL.

(2) PROVIDE WITH 14" ROOF CURB.

			ASSOCIATED ROOFTOP		RELIEF AIR/RETURN	EXTERNAL	FAN	МО	TOR (EA)				UNIT ELEC	TRICAL	WEIGHT	MANUFACT		
MARK	COUNT	SERVES	A/C UNIT	CFM	AIR CFM	S.P. IN W.G.	NO	HP	DRIVE	AMPS	VOLTS	PHASE						NOTES
ERV-1	1	105 CLASSROOM	RT-1	605	530	0.4	2	8.0	DIRECT	4.5	200	1	10.1	15	350	RENEWAIRE	HE1XRTV	(1)(2)
ERV-2	1	106 CLASSROOM	RT-2	605	530	0.4	2	8.0	DIRECT	4.5	200	1	10.1	15	350	RENEWAIRE	HE1XRTV	(1)(2)

EXHAUST FAN SCHEDULE

NOTES

(1) SITE ELEVATION= 4220 FT ASL.

(2) FURNISH WITH BACKDRAFT DAMPER.

(3) MINIMUM MOTOR EFFICIENCY SHALL BE 70% RATED IN ACCORDANCE WITH DOE 10 CFR 431.

(4) CONTROL BY DIVISION 26.

						EXTERNAL		FAN	MOTOR				WEIGHT				1
M	IARK	COUNT	SERVES	TYPE	CFM	S.P. IN W.G.	RPM	HP	DRIVE	AMPS	VOLTS	PHASE	LBS.	SONES	MANUFACTURER	MODEL	NOPTES
Ε	F-1	3	RR 114, 115, 116	CEILING	100	0.375	1075		DIRECT	0.5	115	1	20	2.6	COOK	GC-148	(1)(2)(3)(4)

DIFFUSER, REGISTER, LOUVER, AND GRILLE SCHEDULE

NOTES:

(1) DIFFUSERS ARE 4-WB UNLESS DEFINED OTHERWISE ON THE DRAWINGS.

(2) DUCT RUNOUT IS THE SAME SIZE AS THE NECK INLET.

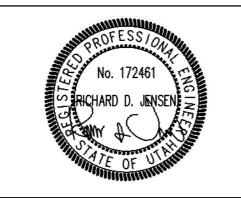
(3) FURNISH WITH BACKDRAFT DAMPER.

(4) THREE TIER.

				CFM RANC	SE	NECK		MODULE					
MARK	COUNT	SERVICE	TYPE	MIN	MAX	INLET	FRAME	SIZE	MATERIAL	FINISH	MANUFACTURER	MODEL	NOTES
D-1	3	SUPPLY	CEILING	0	100	6" DIA.	TYPE 6	6"X6"	STEEL	WHITE	PRICE	SMD	(1)(2)
D-2	5	SUPPLY	CEILING	90	210	8" DIA.	TYPE 6	9"X9"	STEEL	WHITE	PRICE	SMD	(1)(2)
D-3	1	SUPPLY	CEILING	90	210	8" DIA.	TYPE 3P	24"X24"	STEEL	WHITE	PRICE	SMD	(1)(2)
D-4	3	SUPPLY	CEILING	200	360	10" DIA	TYPE 3P	24"X24"	STEEL	WHITE	PRICE	SMD	(1)(2)
D-5	4	SUPPLY	CEILING	90	210	8" DIA.	TYPE 3P	24"X24"	STEEL	WHITE	PRICE	SMDA	(1)(2)
D-6	8	SUPPLY	CEILING	200	360	10" DIA	TYPE 3P	24"X24"	STEEL	WHITE	PRICE	SMDA	(1)(2)
PH-1	1	EXHAUST	ROOF	100	400	12"X12"	NA	NA	ALUM	SATIN ALUM	COOK	TRE	(3)(4)
R-1	2	RETURN	CEILING	0	100	6" DIA	TYPE F	8"X8"	STEEL	WHITE	PRICE	535	(2)
R-2	5	RETURN	CEILING	90	210	8" DIA	TYPE F	10"X10"	STEEL	WHITE	PRICE	535	(2)
R-3	2	RETURN	CEILING	90	210	8" DIA	TYPE TB	12"X24"	STEEL	WHITE	PRICE	535	(2)
R-4	1	RETURN	CEILING	200	360	10" DIA	TYPE TB	12"X24"	STEEL	WHITE	PRICE	535	(2)
R-5	2	RETURN	CEILING	300	600	12" DIA.	TYPE TB	24"X24"	STEEL	WHITE	PRICE	535	(2)
R-6	4	RETURN	CEILING	500	900	14" DIA.	TYPE TB	24"X24"	STEEL	WHITE	PRICE	535	(2)

Revision Schedul	е
Description	Date

AEC COMMENTS 05-26-23





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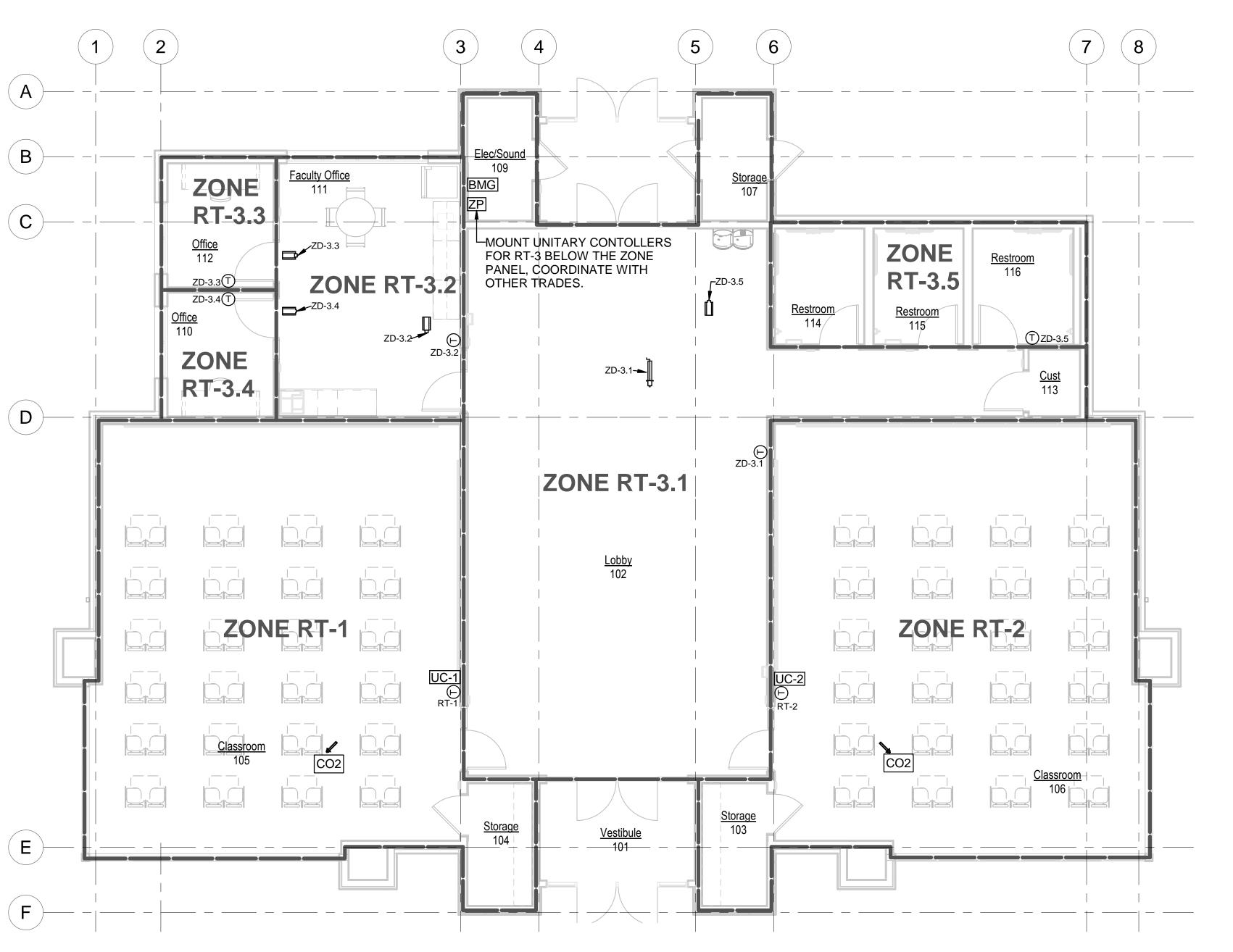
FAX: (801) 294-9399

Project Number: 22Property Number: 501-8963

May 1, 2023

MECHANICAL SCHEDULES

M601



MECHANICAL CONTROL PLAN

SCALE: 3/16" = 1'-0"

WIRING/CONDUIT NOTES:

- 1. BOXES FOR THERMOSTAT TOUTLETS SHALL BE 2"X4" WITH LONG DIMENSION VERTICAL. USE METAL BRACKET OF COVER PLATE ASSEMBLY TO MOUNT THERMSTAT HORIZONTAL.
- 2. CONDUIT TO BE 1/2" UNLESS NOTED OTHERWISE.
- 3. TEMPERATURE CONTROL WIRING THAT IS NOT IN CONDUIT SHALL BE RUN PARRALLEL AND PERPENDICULAR TO BUILDING CONSTRUCTION LINES. SEE SPECIFICATIONS FOR ACCEPTABLE FASTENING METHODS AND MAXIMUM ALLOWABLE SPACING BETWEEN FASTENERS.
- 4. TEMPERATURE CONTROL WIRING THAT IS NOT IN CONDUIT SHALL BE LABELED. PROVIDE A LABEL AT ALL POINTS WHERE TMPERATURE CONTROL WIRING ENTERS CONDUIT AND AT CONNECTIONS TO DEVICES.
- 5. SEAL OPEN END OF CONDUIT AIR-TIGHT AROUND THERMOSTAT WIRE WITH SEALANT COMPOUND. SEE SPECS FOR APPROVED PRODUCT.
- 6. SEAL ANNULAR SPACE BETWEEN CONDUIT AND OPENING IN FLOOR OR WALL WITH SEALANT COMPOUND. SEE SPECS FOR APPROVED PRODUCT.
- 7. SEAL OPEN END OF CONDUIT AT J-BOX AIR TIGHT AROUND THERMOSTAT WIRE. SEAL ALL AIR GAPS AROUND J-BOX TO ISOLATE J-BOX FROM WALL CAVITY. SEAL BACK OF THERMOSTAT AROUND WIRES. PACK J-BOX TIGHT WITH GLASS FIBER BATT INSULATION. USE SEALING COMPOUND SPECIFICALLY MADE FOR REFRIGERATION AND AIR CONDITIONING APPLICATIONS. SEE SPECIFICATIONS FOR APPROVED PRODUCTS.

SYMBOLS

UNITARY CONTROLLER (DIV 23). MOUNT MODULE ABOVE CEILING IN ACCESSIBLE LOCATION NEAR ASSOCIATED ROOFTOP UNIT.

THERMOSTAT (LCBS) OUTLET (DIV 26)

BUILDING MANAGEMENT GATEWAY (DIV 23)

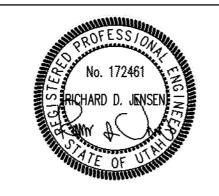
ZP ZONE PANEL FOR RT-3

ZONE DAMPER (*=ZONE NUMBER)

CO2 CO2 SENSOR (DIV 23)

OAS GLOBAL OUTDOOR AIR SENSOR (DIV 23)

Revision Schedule Description Date





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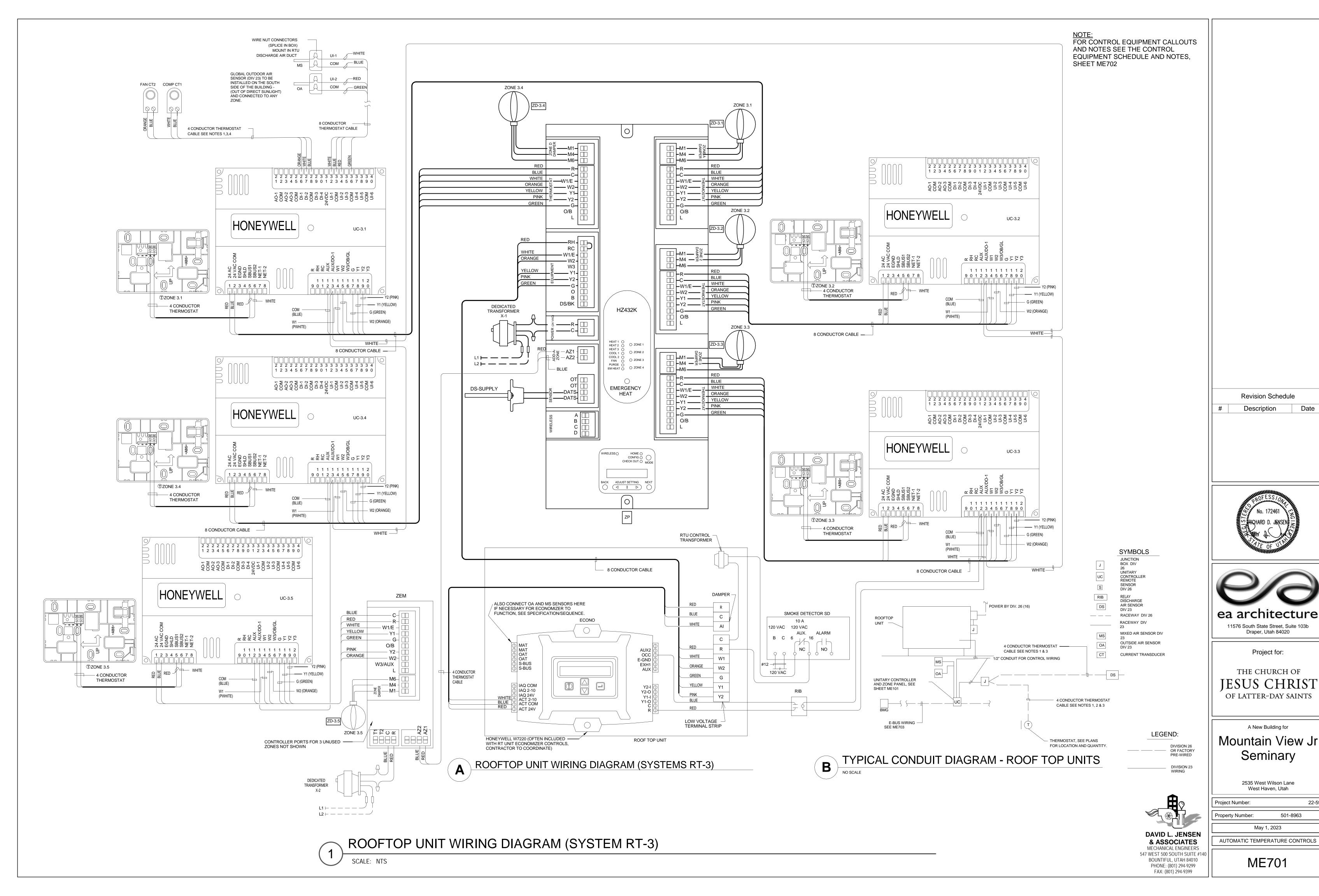
2535 West Wilson Lane West Haven, Utah

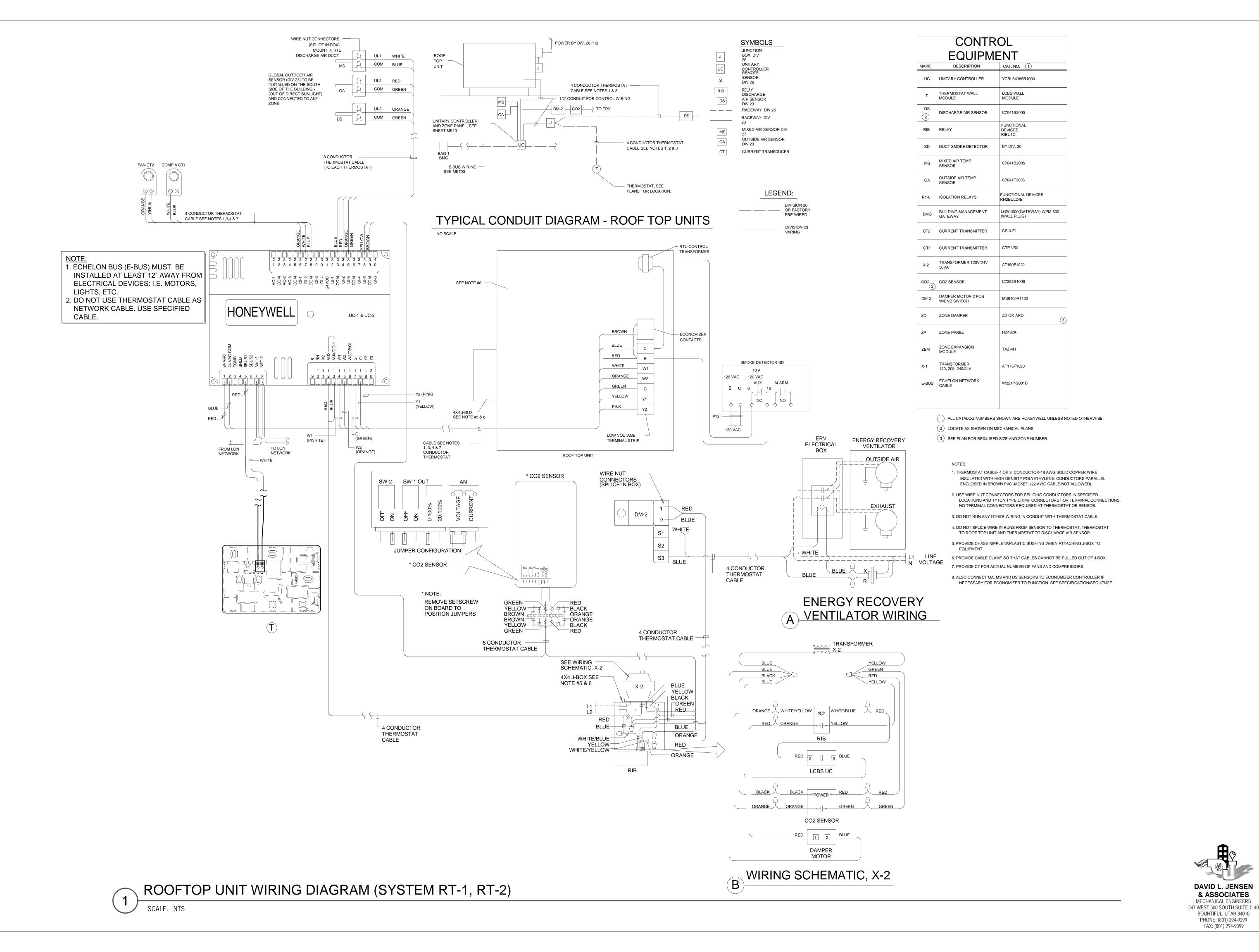
501-8963 Property Number:

> May 1, 2023 MECANICAL CONTROL PLAN

> > ME101

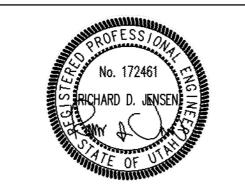
DAVID L. JENSEN
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547 WEST 500 SOUTH SUITE #140
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Revision Schedule

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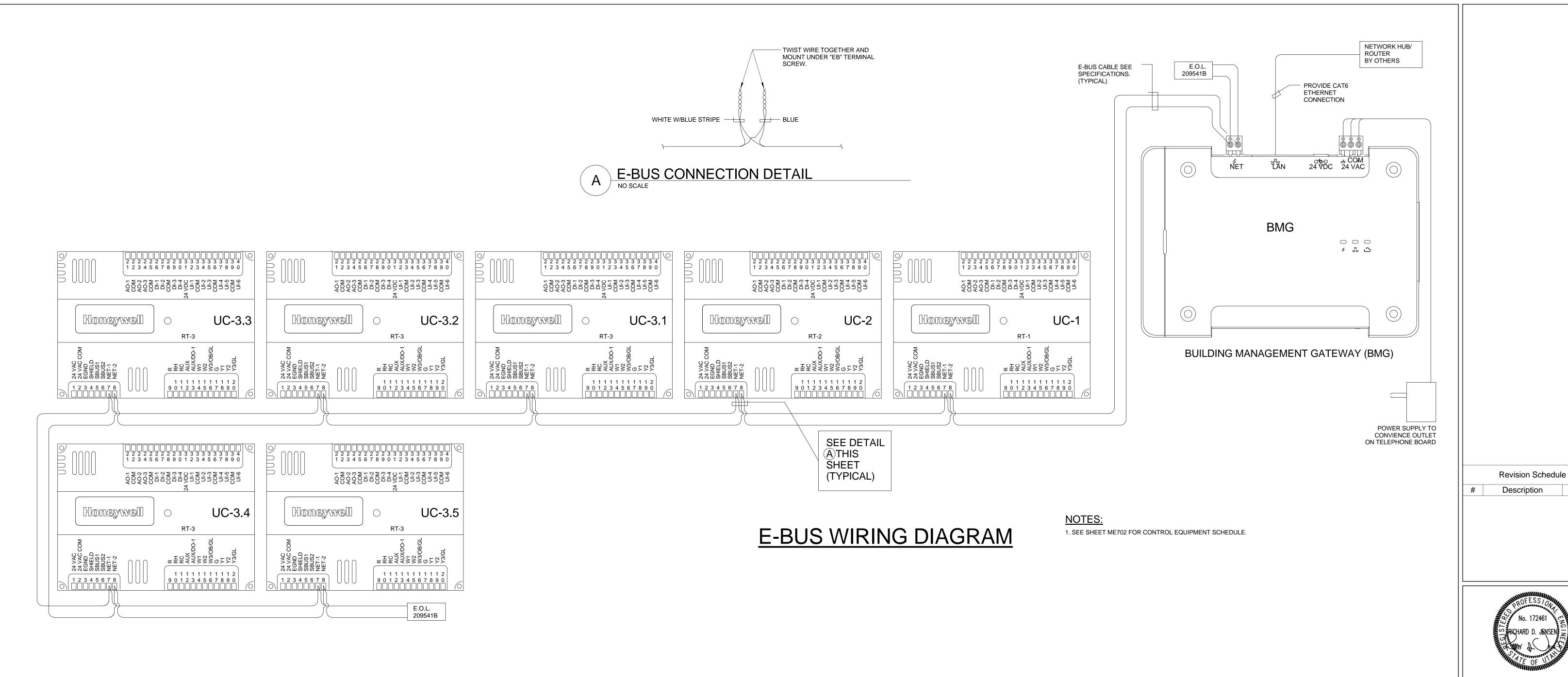
Project Number:

Property Number: 501-8963

May 1, 2023

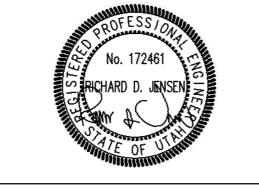
AUTOMATIC TEMPERATURE CONTROLS

ME702





Date





Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

2535 West Wilson Lane West Haven, Utah



BOUNTIFUL, UTAH 84010

PHONE: (801) 294-9299 FAX: (801) 294-9399

Project Number: 501-8963 Property Number: May 1, 2023 AUTOMATIC TEMPERATURE CONTROL

ME703

	LIGHTING CONT	ROLS			EQUIPMENT AND CONTR	OL SYMBOLS			ELECTRICAL SYMBOL SCHEDU	JLE GENERAL NO	TES		
CVMDO		1	DEMARKS	CVMDOL	<u> </u>	1	DEMARKO						
SYMBOL	DESCRIPTION SINGLE-POLE TOGGLE SWITCH	MOUNTING +48"	REMARKS	SYMBOL	DESCRIPTION MANUAL STARTER WITH THERMAL OVERLOAD(S)	MOUNTING AT EQUIPMENT	REMARKS		ALL OUTLETS, DEVICES, AND EQUIPMENT AT HEIGHTS INDICATED B			A ABOVE COUNT	
φ \$ a	SINGLE-POLE TOGGLE SWITCH	+48"	SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.	ΨT	ELECTRIC MOTOR NON-FUSED DISCONNECT SWITCH	+60"		2. WHERI	S NOTED OTHERWISE, HEIGHTS ARE GIVEN FROM FINISHED FLOOR T E OUTLETS, DEVICES, AND EQUIPMENT ARE NOTED BY SUBSCRIPTS, REMENTS.			A AMP OR AMPS ACC ACCESS CONT ADJ ADJACENT AFF ABOVE FINISHE	NTROL
\$2	DOUBLE-POLE TOGGLE SWITCH	+48"		FY	FUSED DISCONNECT SWITCH	+60"		4	OUTLETS, DEVICES AND EQUIPMENT ARE NOTED BY THE SUBSCRIF	PT 'A'. MOUNT AT 4" ABOVI	E COUNTER. IF COUNTER HAS A	AHJ AUTHORITY HA	
\$3	THREE-WAY TOGGLE SWITCH	+48"			CIRCUIT BREAKER AND ENCLOSURE	+60"		BACK S	PLASH, MOUNT AT 4" ABOVE BACK SPLASH. REFER TO ARCHITECTU ORK SUPPLIER.			AL ALUMINUM ATS AUTOMATIC TR	RANSFE
\$4	FOUR-WAY TOGGLE SWITCH	+48"			MAGNETIC STARTER	+60"		1	L ELECTRICAL SYMBOLS MAY BE USED.			AUX AUXILIARY AWG AMERICAN WIF	
\$ K	KEY-OPERATED SINGLE-POLE TOGGLE SWITCH	+48"			COMBINATION MAGNETIC STARTER / FUSED DISCONNECT	+60"		4. NOTAL	L ELECTRICAL STIVIBOLS WAT BE USED.			BAS BUILDING AUTO	COMATIO
\$ _P	SINGLE-POLE TOGGLE SWITCH WITH PILOT LIGHT	+48"		ď	COMBINATION MAGNETIC STARTER / NON-FUSED DISCONNECT	+60"			OFNEDAL CVA	4DOLC		C CONDUIT CB CIRCUIT BREAK	VKED
\$ _{DIM}	DIMMER SWITCH	+48"	RATE DIMMER SWITCH FOR MAXIMUM POSSIBLE WATTAGE	⊠ [⊥]	COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP)	+60"			GENERAL SYN	IBULS		CKT CIRCUIT CLG CEILING	WEI
\$ _{TIM}	TIMER SWITCH	+48"			COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT	FLOOR OR WALL	TOP AT +72" IF WALL MOUNTED	SYMBOL	DESCRIPTION		REMARKS	CO CONVENIENCE	E OUTLE
\$x Os	OCCUPANCY SENSOR	+48"	REFER TO OCCUPANCY SENSOR SCHEDULE FOR MORE INFORMATION "#" SPECIFIES TYPE	VFD	PROTECTOR (MCP) LOAD CENTER (SURFACE-MOUNTED)	AS SPECIFIED TOP AT +72"	14"W X 3"D	(XX)	KEYED NOTE			DAS DISTRIBUTED A (E) EXISTING	ANTENN
\$\$	(2) SINGLE-POLE TOGGLE SWITCH	+48"	DUAL LEVEL SWITCH OUTBOARD LAMPS	-	LOAD CENTER (FLUSH-MOUNTED)	TOP AT +72"	14"W X 3"D		DETAIL REFERENCE		TES DETAIL NUMBER; BOTTOM DICATES DRAWING SHEET WHERE	EG EQUIPMENT G	
ΨΨ			SEPARATELY FROM INBOARD LAMPS.		LIGHTING AND APPLIANCE PANELBOARD (SURFACE-MOUNTED)	TOP AT +72"	20"W X 6"D	E-1			HERE NOT SPECIFICALLY REFERENCED, N NATURE AND SHALL APPLY WHERE	EGC EQUIPMENT GF	
\$ _{LV}	LOW VOLTAGE SWITCH	+48"	REFER TO LOW VOLTAGE SWITCH SCHEDULE FOR MORE INFORMATION	_	LIGHTING AND APPLIANCE PANELBOARD (FLUSH-MOUNTED)	TOP AT +72"	20"W X 6"D			APPLICABLE.		EM EMERGENCY EMT ELECTRIC MET	ETALLIC T
φ.	3-POSITION MOMENTARY CONTACT SWITCH	+48"	"#" SPECIFIES TYPE REFER TO DETAIL UP-ON;		POWER DISTRIBUTION PANELBOARD	WALL	THESE SYMBOLS ARE GENERAL IN NATURE AND MAY VARY IN SIZE AND SHAPE TO SUIT APPLICATION. CROSS	2 E-2	ELEVATION REFERENCE		TES ELEVATION NUMBER; BOTTOM DICATES WHERE ELEVATION IS SHOWN.	ENT ELECTRIC NON EQUIP EQUIPMENT EWC ELECTRIC WAT	ATER COC
[⇒] 3PM			CENTER-NEUTRAL; DOWN-OFF	F7777777A	SWITCHBOARD	FLOOR	HATCHING INDICATES "MAIN PANELBOARD OR SWITCHBOARD" NAME					EXP EXPLOSION PR FA FIRE ALARM	
\$3PN	3-POSITION MAINTAINED CONTACT SWITCH	+48"	UP-ON; CENTER-OFF; DOWN-ON				IS INDICATED IN SEMI-QUOTES (I.E. 'L2A', 'MDP')	3	SECTION REFERENCE		TES ELEVATION NUMBER; BOTTOM IICATES WHERE ELEVATION IS SHOWN.	FACP FIRE ALARM CO	MPS TAL CONE
● #	OCCUPANCY SENSOR	CEILING	"a" LOWER CASE SPECIFIES ZONE "#" SPECIFIES TYPE	T-#	WET TYPE TRANSFORMER	PAD MOUNT		E-2				FO FIBER OPTIC FOB FREIGHT ON BOTTL FTL FEED-THROUG GEC GROUNDING E	BOARD JGH LUGS
æa #	DIGITAL DAYLIGHT SENSOR	CEILING	"a" LOWER CASE LETTER SPECIFIES ZONE "#" SPECIFIES THE FOOTCANDLE SETTING THE SENSOR SHALL BE SET TO	T-#	DRY TYPE TRANSFORMER	PAD MOUNT		100	ARCHITECTURAL ROOM NUMBER			GND GROUND CONI HOA HAND-OFF-AUT HP HORSE POWER	NDUCTOR UTO
TP	WALL MOUNT GRAPHIC TOUCH PAD CONTROLLER	+48"		T-#	DRY TYPE TRANSFORMER	WALL MOUNT		AHU	EQUIPMENT NAME / NUMBER	BOTTOM NUMBER IN	VIATES EQUIPMENT NAME OR TYPE; DICATES EQUIPMENT NUMBER. REFER	IBT INTERSYSTEM ID INTRUSION DE	M BONDIN
EC	EMERENCY CONTROLLER	ACCESSIBLE		<u></u>	METER BASE	TOP AT +72"		1		TO EQUIPMENT SCHI	EDULE.	IG ISOLATED GRO	ROUND
	LOAD CONTROLLER	ABOVE CEILING ACCESSIBLE		РВ	PULL BOX			,	REVISION NUMBER		HANGES EITHER ISSUED BY ADDENDUM	INS INSULATED	EWETAL
LC		ABOVE CEILING ACCESSIBLE		a	UTILITY POLE			1		OR DURING CONSTR DRAWING CHANGES	UCTION AND TO DENOTE RECORD	ISO ISOLATED KCMIL KILO CIRCULAF	
PP	POWER PACK	ABOVE CEILING		<u> </u>								KVA KILO VOLT AMF	IPERES
RC	ROOM CONTROLLER FIRE ALARM SYM	ACCESSIBLE ABOVE CEILING		•	OPEN - STOP - CLOSE SWITCH	+60"	FURNISH SWITCH UNLESS FURNISHED BY ANOTHER DIVISION. INSTALL AND CONNECT COMPLETE. REFER TO RELATED SPECIFICATION SECTIONS.		REVISION CLOUD	USED TO DENOTE AF AFFECTED BY THE R	REAS, DEVICES, EQUIPMENT DETAILS, ETC. EVISION.	LFNC LIQUID-TIGHT N LS LONG-TIME, SH	
				(T)	HVAC THERMOSTAT	+60"	PROVIDED BY DIVISION 23		BREAKLINE	USED TO BREAK DRA	WINGS.		SH
SYMBOL	DESCRIPTION	MOUNTING	REMARKS		HAND - OFF - AUTO SWITCH	+60"						EG001 GEN	NERAL N
	BEAM DETECTOR - TRANSMITTER	4" BELOW		GF -	GROUND FAULT PROTECTION			LCD-###	LIGHTING CONTROL WIRING DIAGRAM CALLOUT			EL101 LIGH	HTING F
T	BEAM DETECTOR - RECEIVER	CEILING TO TOP OF DETECTOR 4" BELOW			ELECTRIC VEHICLE CAR CHARGING STATION	FLOOR		LOD IIIII	BRANCH CIRCUITING	G SYMBOLS		EL601 LIGH	HT FIXT
R		CEILING TO TOP OF DETECTOR		S	PAD MOUNTED UTLITY SWITCHGEAR			SYMBOL	DESCRIPTION		REMARKS	EP102 POW	WER RO
EOL	END OF LINE RESISTOR	PER MANUF. REC.		SE	PAD MOUNTED UTILITY SECTIONALIZER				BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS:	S INDICATES NUMBER OF CIRCUITS		WER DE HEDULE
Т	TAMPER SWITCH	AT VALVE			WIRING DEVICE SY	MBOLS				REQUIRED.	2 INDICATES NUMBER OF CIRCUITS		
W	WATER FLOW INDICATOR	ON FIRE RISER							BRANCH CIRCUITING (U.N.O.) CONTINUATION				STEMS F LE RISEF
FSD	FIRE/SMOKE DAMPER			SYMBOL	DESCRIPTION	MOUNTING	REMARKS		CONDUIT STUB-IN	CAP AND MARK		_	
<u></u>	HEAT DETECTOR CARBON MONOXIDE DETECTOR	CEILING	SUBSCRIPT INDICATES SPECIFIC REQUIREMENTS/OPTIONS:	\oplus	SPLIT-WIRED DUPLEX RECEPTACLE	+18"			INCOMING SERVICE UNDERGROUND FEEDER			CENTERAL	
2 v	SMOKE DETECTOR	-	'SB' DEVICE WITH SOUNDER BASE	\ominus	SIMPLEX RECEPTACLE	+18"			JUNCTION BOX	MOUNT AS NOTED S	UBSCRIPT 'F' INDICATES TO PROVIDE A	GENERAL 1. DIVISION 26	
(I) _Y	HEAT DETECTOR	WALL MOUNTED:	'R' DEVICE WITH ADDRESSABLE RELAY	# H	DUPLEX RECEPTACLE	+18"	1			FLOOR BOX WITH BL		IN THE SPE	PECIFICAT
© _X	CARBON MONOXIDE DETECTOR	MAX 12" FROM	'RES' DEVICE HAS 120V. SMOKE ALARM	#	FOURPLEX RECEPTACLE 125/250V RECEPTACLE	+18"	RANGE NEMA 14-50R		BRANCH CIRCUITING (U.N.O.) TURNED UP OR TOWARDS OBSERVER.			SUBSTANT	NTIAL COM
₩X	SMOKE DETECTOR	-	W/BATTERY BACKUP	\Rightarrow		T 10	DRYER NEMA 14-30R	<u> </u>	BRANCH CIRCUITING (U.N.O.) TURNED DOWN OR AWAY FROM	+		REMEDY TI BE NO EXC	
₩ X		OIDE OF BUST		J.1	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE	+18"	1	• • • • • • • • • • • • • • • • • • •	OBSERVER.			2. THE CONTI	
	DUCT SMOKE DETECTOR	SIDE OF DUCT			GROUND FAULT CIRCUIT INTERRUPTER FOURPLEX RECEPTACLE	+18"			2 CIRCUIT, BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS:	S INDICATES NUMBER OF CIRCUITS	DISCRETIO SPECIFICA	ATIONS.
7	FIRE ALARM MANUAL STATION CONTROL MODULE	AT DEVICE(S) TO BE		□	EMERGENCY DUPLEX RECEPTACLE EMERGENCY FOURPLEX RECEPTACLE	+18"	+			REQUIRED.	O INDIDATED NUMBER OF CIRCUITS	TAKE PLAC	
		CONTROLLED AT DEVICE(S)			DUPLEX RECEPTACLE W/(2) 3.1A, 12VDC USB PORTS	+18"	+		3 CIRCUIT, 4 WIRE BRANCH CIRCUIT HOME RUN TO PANEL	ARROWS:	S INDICATES NUMBER OF CIRCUITS	3. THE FOLLO SPECIFICA	ATIONS.
	MONITOR MODULE	TO MONITÒR			MULTI-OUTLET ASSEMBLY	4" ABOVE				REQUIRED.	O INDIONIZED NOWIDER OF CIRCUITS	RESPONSI	
R	FAN SHUTDOWN RELAY MAGNETIC DOOR HOLDER	AT CONTROL PANEL COORDINATE	COORDINATE WITH DOOR INSTALLER;		POWER / TELEPHONE POLE	BACKSPLASH FLOOR/CEILING			ELECTRONIC SYSTEM GE			FOR	NSULATED OR ALL CO
		WITH DOOR INSTALLER	SUBSCRIPT 'F' INDICATES TO MOUNT AT FLOOR LEVEL	(4-PLEX)	CORD DROP	REFER TO FLOOR PLANS	REFER TO DETAIL. REFER TO PLANS.	SYMBOL	DESCRIPTION	MOUNTING	REMARKS	VOI	HE CONTF OLTAGE D
WF	WATER FLOOD CONTROL	FLOOR						PANEL NAME	ELECTRONIC SYSTEM PANELBOARD (SURFACE MOUNT)	TOP AT 72"	ELECTRONIC SYSTEMS MAY INCLUDE BUT ARE NOT SPECIFICALLY LIMITED		HE PLANS
H	AUDIO HORN	<u>INDOOR</u> - 96" FROM FINISH	SUBSCRIPT 'WP' INDICATES THAT A WEATHER PROOF BACK BOX IS REQ.	(4-PLEX)	CORD REEL	REFER TO FLOOR PLANS	REFER TO DETAIL. REFER TO PLANS.	<u> </u>			TO, TELEPHONE, DATA, TELEVISION, LIGHTING CONTROL, CLOCKS, FIRE		HE CONTE
	FIRE ALARM VISUAL STROBE CONCEAL FIRE ALARM VISUAL STROBE	FLOOR TO TOP OF DEVICE.	NUMERIC SUBSCRIPT INDICATES		SPECIAL PURPOSE OUTLET	+18"	SUBSCRIPT IN PARENTHESIS INDICATES	PANEL NAME	ELECTRONIC SYSTEM PANELBOARD (FLUSH MOUNT)	TOP AT 72"	ALARM, ACCESS CONTROL, SECURITY, CCTV, SOUND SYSTEM, NURSE CALL,		HE CONTI
	FIRE ALARM AUDIO/VISUAL HORN/STROBE	OUTDOOR - 120" FROM FINISH	CANDELA RATING OF STROBE (I.E 15, 75, 110)	D ,			NEMA CONFIGURATION IF SHOWN. REFER TO DRAWINGS AND/OR EQUIPMENT				OR INTERCOM.	LIG	IGHT FIXT OCAL AND
	CONCEAL FIRE ALARM AUDIO/VISUAL HORN/STROBE	FLOOR TO TOP OF DEVICE.	<u> </u>	(5-20R)		SCHEDULES. CONFIRM EXACT CONFIGURATION WITH OWNER PRIOR TO		ELECTRONIC SYSTEM TERMINAL BOARD	TOP AT 72"		4. THE CONTR	
	CEILING MOUNTED FIRE ALARM AUDIO/VISUAL HORN/STROBE						INSTALLATION.					4. THE CONT THE DRAW THE BUILDI	WINGS. E
S	FIRE ALARM AUDIO SPEAKER	_										FROM THE	
<u>>s<</u>	CEILING MOUNTED FIRE ALARM AUDIO SPEAKER	4										5. THE CONT	
	FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE CONCEAL FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE	-										DIAGRAM, I SPECIFICA WIDE IS SI	ATIONS. H
	CEILING MOUNTED FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE	-										WIRE IS SIZ	

CEILING MOUNTED FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE

+48"

FURNISHED BY FIRE PROTECTION CONTRACTOR AND INSTALLED AND

CONNECTED BY DIV. 26

FIRE FIGHTERS TELEPHONE JACK

FACP FIRE ALARM CONTROL PANEL

FIRE PROTECTION SPRINKLER RISER BELL

 ∇ F

ACCESS CONTROL GROUND FAULT ADJACENT LIGHTING ABOVE FINISHED FLOOR MBJ MAIN BONDING JUMPER AUTHORITY HAVING JURISDICTION MCA MINIMUM CIRCUIT AMPS MCB MAIN CIRCUIT BREAKER
MLO MAIN LUGS ONLY LUMINUM AUTOMATIC TRANSFER SWITCH AUXILIARY MEDIUM VOLTAGE MW MICROWAVE
NC NORMALLY CLO
NEC NATIONAL ELEC
NIC NOT IN CONTRA AMERICAN WIRE GAUGE BUILDING AUTOMATION SYSTEM NORMALLY CLOSED BUILDING NATIONAL ELECTRIC CODE CONDUIT NOT IN CONTRACT CIRCUIT BREAKER NIGHT LIGHT CIRCUIT NORMALLY OPEN OC ON CENTER(S)
OCP OVER CURRENT PROTECTION CEILING CONVENIENCE OUTLETS OCPD OVER CURRENT PROTECTION DEVICE COPPER DISTRIBUTED ANTENNA SYSTEM PA PUBLIC ADDRESS EXISTING PHOTOVOLTAIC EQUIPMENT GROUND PWR POWER QTY QUANTITY EQUIPMENT GROUNDING CONDUCTOR LECTRICAL REMOVE MERGENCY REF REFRIGERATOR REF REFRIGERATOR
REQ REQUIREMENTS
RGC RIGID GALVANIZED CONDUIT
RMC RIGID METAL CONDUIT
RMP ROCKY MOUNTAIN POWER
RNC RIGID NONMETALLIC CONDUIT LECTRIC METALLIC TUBING LECTRIC NONMETALLIC TUBING EQUIPMENT ELECTRIC WATER COOLER EXPLOSION PROOF FIRE ALARM REMOVE AND RELOCATE SBJ SYSTEM BONDING JUMPER SCP SECURITY CONTROL PANEL FIRE ALARM CONTROL PANEL FULL LOAD AMPS FLEXIBLE METAL CONDUIT SFL SPD SS SUB-FEED LUGS FIBER OPTIC SURGE PROTECTIVE DEVICE FREIGHT ON BOARD SURGE SUPPRESSION SSBJ SUPPLY SIDE BONDING JUMPER FEED-THROUGH LUGS GROUNDING ELECTRODE CONDUCTOR TGB TELECOMMUNICATION GROUNDING BUS BAR TMGB TELECOMMUNICATION MAIN GROUNDING GROUND CONDUCTOR HAND-OFF-AUTO BUS BAR TAMPER RESISTANT HORSE POWER NTERSYSTEM BONDING TERMINATION BAR TTB TELEPHONE TERMINAL BOARD NTRUSION DETECTION UNDER FLOOR ISOLATED GROUND NTERMEDIATE METAL CONDUIT UNDERGROUND INSULATED UNO UNLESS NOTED OTHERWISE USB UNIVERSAL SERIAL BUS
VSS VIDEO SURVEILLANCE SYSTEM ISOLATED KILO CIRCULAR MIL KILO VOLT AMPERES wo/ without KILOWATTS WP WEATHER PROOF
WR WEATHER RESISTANT
XFMR TRANSFORMER LIQUID-TIGHT NONMETAL CONDUIT LONG-TIME, SHORT-TIME SHEET INDEX GENERAL NOTES AND SYMBOLS LISTS LIGHTING PLAN LIGHT FIXTURE SCHEDULE POWER PLAN POWER ROOF PLAN POWER DETAILS SCHEDULES AND ONE-LINE

ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

LSI LONG-TIME, SHORT-TIME INSTANTANEOUS LSIG LONG-TIME, SHORT-TIME INSTANTANEOUS

ENERAL PROJECT NOTES

SYSTEMS PLAN FIRE RISER DIAGRAM

- DIVISION 26000 CONTRACTOR IS RESPONSIBLE FOR READING AND APPLYING WHAT IS IN THE SPECIFICATIONS TO THIS PROJECT. ANYTHING THAT IS NOT INCLUDED ON THE PROJECT THAT IS CALLED OUT IN THE SPECIFICATION SHALL BE LISTED ON THE SUBSTANTIAL COMPLETION PUNCHLIST. THE CONTRACTOR WILL BE REQUIRED TO REMEDY THESE DEFICIENCIES WITHOUT ADDITIONAL COSTS TO OWNER. THERE WILL BE NO EXCEPTIONS.
- THE CONTRACTOR MAY SCHEDULE A PRE-CONSTRUCTION MEETING. AT THEIR DISCRETION, WITH THE ELECTRICAL ENGINEER TO REVIEW THE DRAWINGS AND SPECIFICATIONS. THE MEETING SHALL BE A MAXIMUM OF ONE HOUR AND SHALL TAKE PLACE AT THE ENGINEER'S OFFICE.
- THE FOLLOWING ITEMS ARE SOME OF THE REQUIREMENTS THAT ARE LISTED IN THE SPECIFICATIONS. THESE ITEMS ARE NOT ALL INCLUSIVE AND THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE TO ALL REQUIREMENTS OF THE SPECIFICATIONS:
- A. INSULATED THROAT CONNECTORS OR PLASTIC BUSHINGS SHALL BE UTILIZED FOR ALL CONDUIT SIZED USED ON THIS PROJECT.
- B. THE CONTRACTOR IS RESPONSIBLE FOR UPSIZING CONDUCTORS FOR VOLTAGE DROP PER THE NEC REGARDLESS OF WHETHER IT IS SHOWN ON THE PLANS OR NOT.
- C. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL EQUIPMENT AS IT IS CALLED OUT IN THE SPECIFICATIONS.
- D. THE CONTRACTOR SHALL PROVIDE SEISMIC SUPPORT AND BRACING FOR ALL LIGHT FIXTURES AND ELECTRICAL EQUIPMENT AS REQUIRED BY APPLICABLE LOCAL AND NATIONAL CODES.
- THE CONTRACTOR SHALL FOLLOW THE PANELBOARD SCHEDULES AS INDICATED IN THE DRAWINGS. EACH CIRCUIT BREAKER HAS BEEN ASSIGNED TO SPECIFIC AREA OF THE BUILDING. NO DEVIATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE ELECTRICAL ENGINEER.
- THE CONTRACTOR SHALL INSTALL THE WIRE SIZES AS CALLED OUT ON THE ONE-LINE DIAGRAM, EQUIPMENT SCHEDULES, VOLTAGE DROP TABLES, AND ELECTRICAL SPECIFICATIONS. HOWEVER, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE WIRE IS SIZED LARGE ENOUGH TO ALLOW FOR VOLTAGE DROP.
- THE CONTRACTOR SHALL VERIFY ALL MECHANICAL OVERCURRENT DEVICES FOR THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED ON THE JOB, PRIOR TO RELEASE OF ANY ELECTRICAL DISTRIBUTION EQUIPMENT. CONTACT THE ELECTRICAL ENGINEER WITH ANY DISCREPANCIES.
- 7. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING THE BID, AND SHALL EXAMINE ALL PHYSICAL CONDITIONS WHICH MAY BE MATERIAL TO THE PERFORMANCE OF HIS WORK. NO ADDITIONAL PAYMENTS WILL BE ALLOWED TO THE CONTRACTOR AS A RESULT OF EXTRA WORK MADE NECESSARY BY HIS FAILURE TO DO SO. ANY CASE OF DISCREPANCY OR LACK OF CLARITY SHALL BE PROMPTLY IDENTIFIED TO THE OWNER'S REPRESENTATIVE AND THE ENGINEER FOR CLARIFICATION.



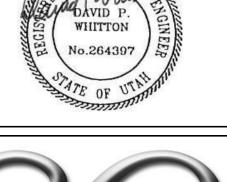
ENV:2023-011

ENGINEERING 240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115 F (801) 534-1080

www.envisioneng.com

Date Description

Revision Schedule





Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for

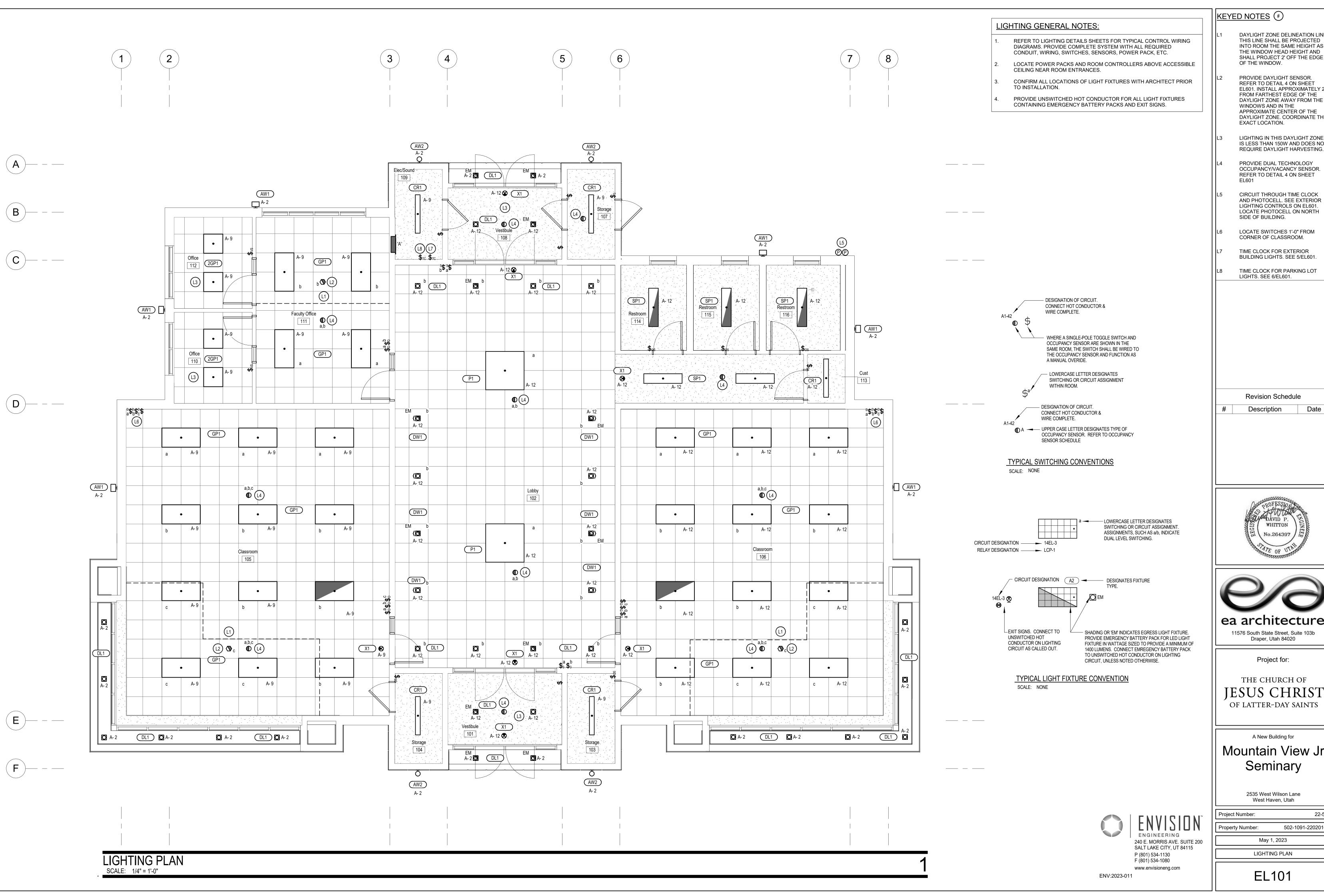
Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

Project Number: Property Number: 502-1091-2202010 May 1, 2023

GENERAL NOTES AND SYMBOLS LISTS

EG001



KEYED NOTES #

DAYLIGHT ZONE DELINEATION LINE. THIS LINE SHALL BE PROJECTED INTO ROOM THE SAME HEIGHT AS THE WINDOW HEAD HEIGHT AND SHALL PROJECT 2' OFF THE EDGE OF THE WINDOW.

> PROVIDE DAYLIGHT SENSOR. REFER TO DETAIL 4 ON SHEET EL601. INSTALL APPROXIMATELY 2' FROM FARTHEST EDGE OF THE DAYLIGHT ZONE AWAY FROM THE WINDOWS AND IN THE APPROXIMATE CENTER OF THE DAYLIGHT ZONE. COORDINATE THE

> LIGHTING IN THIS DAYLIGHT ZONE IS LESS THAN 150W AND DOES NOT

PROVIDE DUAL TECHNOLOGY OCCUPANCY/VACANCY SENSOR. REFER TO DETAIL 4 ON SHEET

CIRCUIT THROUGH TIME CLOCK AND PHOTOCELL. SEE EXTERIOR LIGHTING CONTROLS ON EL601. LOCATE PHOTOCELL ON NORTH SIDE OF BUILDING.

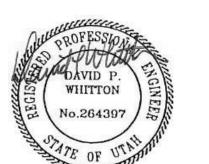
LOCATE SWITCHES 1'-0" FROM CORNER OF CLASSROOM.

TIME CLOCK FOR EXTERIOR BUILDING LIGHTS. SEE 5/EL601.

TIME CLOCK FOR PARKING LOT LIGHTS. SEE 6/EL601.

Date

Description





Project for:

Draper, Utah 84020

THE CHURCH OF JESUS CHRIST

A New Building for

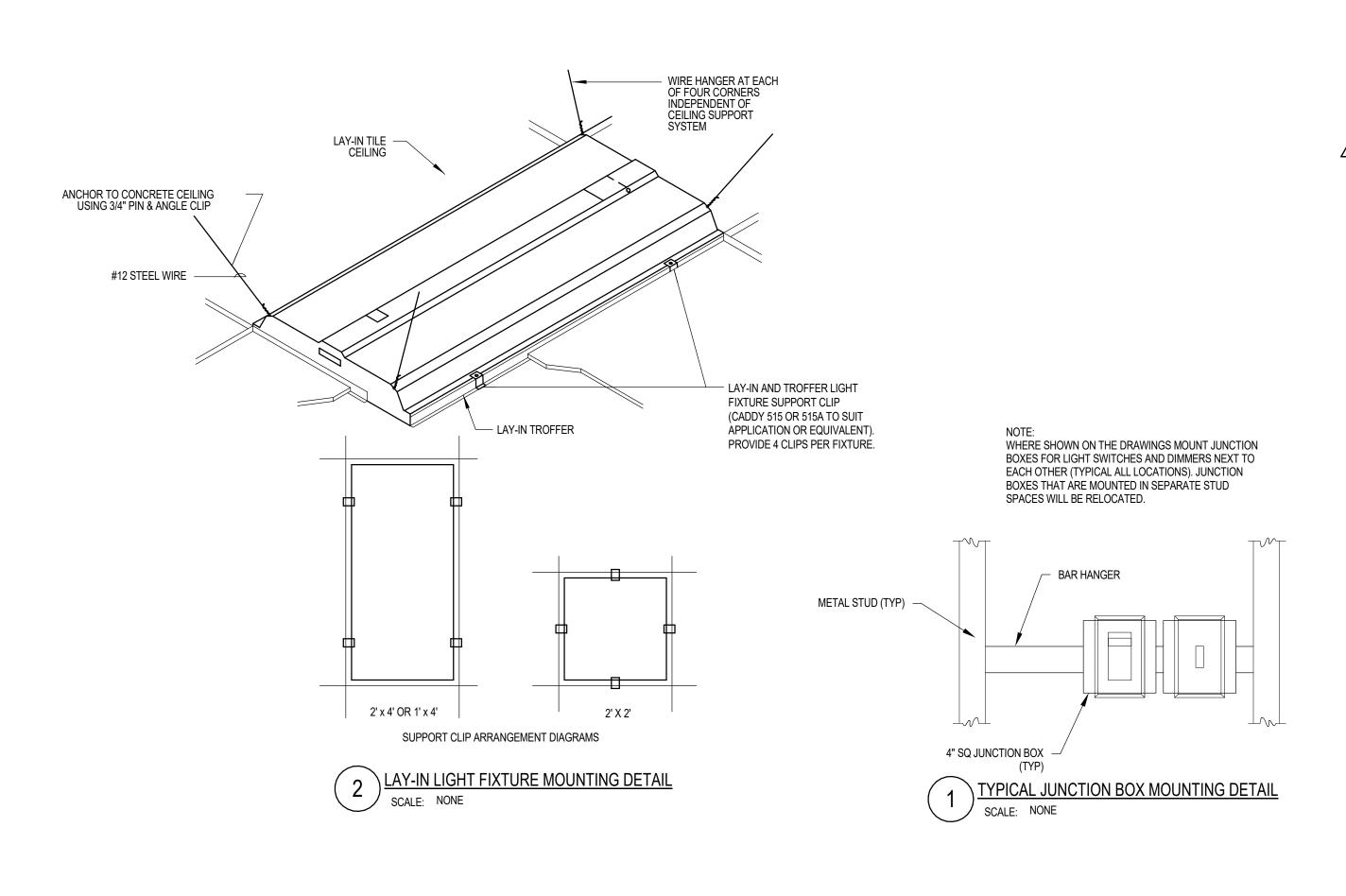
Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

502-1091-2202010 May 1, 2023

LIGHTING PLAN

EL101

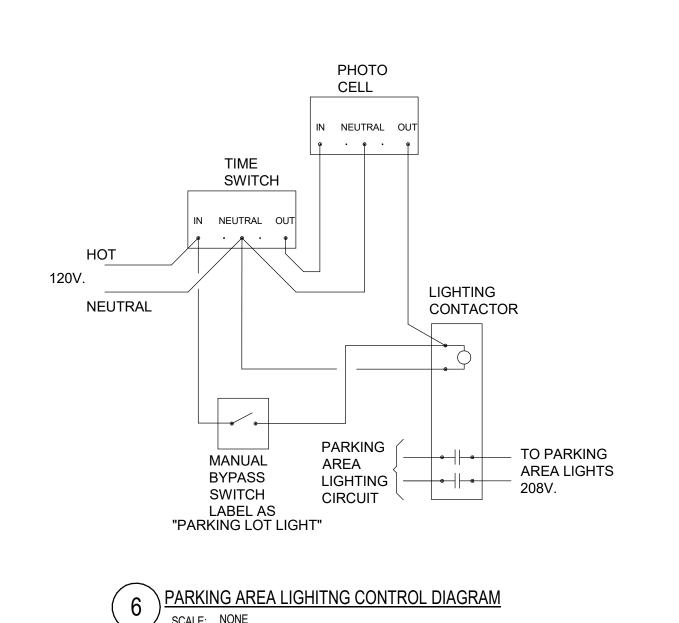


				LIGH	T FIXTURE SCHE	DULE						
								LAMPS				
YPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLTAGE	LOAD (VA)	MOUNTING	NUMBER	TYPE	WATTS	COLOR (KELVIN)	CRI	REMARKS
AP1	LITHONIA	RSX1-LED-P1-40K-R3-MVOLT-SPA-SCBA	SINGLE HEADED AREA LIGHT	208	51	18' POLE	A/R	LED	51	4000	80	
	LUMARK	PREVAIL	IES TYPE 3 DISTRIBUTION / 7,096 LUMENS									
	BEACON	VIPER	STANDARD COLOR BY ARCHITECT									
	GARDCO	OPF-S	18' ALUMINUM POLE									
	$\sim\sim$	$\cdots \cdots $	\sim			\sim	\sim	$\sim\sim\sim\sim\sim$	\sim			$\sim\sim\sim\sim$
AB1	LITHONIA	DSXB LED-12C-700-40K-ASY-MVOLT-SCBA	LED BOLLARD	208	31	CONCRETE	A/R	LED	31	4000	80	
			ASYMMETRIC DISTRIBUTION / 2,335 LUMENS			BASE						
		(1)	STANDARD COLOR BY ARCHITECT									
W/ L	A ALITHANIIA A	א לא אל אומינועל אומינועל אל אין אומינועל איל איל	EXTERIOR WALL PACK	1 2 100 2	, ,,,,, ,	1 -1 10/44/1 -1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4 44 4	1 24 108A 24	لم ما	AONEAN MAINMAINMAINMAINMAINMAINMAINMAINMAINMAIN
	-		1.550 LUMENS	4 200		WALL					1 ~~1	
	LUMARK	AXCENT OL SA20	,									WITH ARCHITECT
	WE-EF	1) QLS420	STANDARD COLOR BY ARCHITECT									
14/0	HE WILLIAMS	VWM	EVTERIOR DIRECTINIDIRECT WALL COONCE	400	40	10/01/	A/D	LED	40	4000	1 00	CONFIDM MOUNTING HEIGH
.W2	SPECTRUM LIGHTING	CW0612UDPC15L40KWDWDEX/CL/WM	EXTERIOR DIRECT/INDIRECT WALL SCONCE 2.050 LUMENS / 0-10V DIMMING - 10%	120	19	WALL	A/R	LED	19	4000	80	CONFIRM MOUNTING HEIGH
	GARDCO	GCM	52 DEGREE UPLIGHT. 52 DEGREE DOWNLIGHT									WITH ARCHITECT
	PORTFOLIO	1 LER6										
	FC LIGHTING	FCC612	STANDARD COLOR BY ARCHITECT									
\D_4 \	LITLIONIA	CLV L40 F000LM CEE DDL MVOLT 0740 40V 000DL	AOF CTRIBLICIT	400	20	SURFACE	A/D	LED	14	4000	00	
R1	LITHONIA	CLX-L48-5000LM-SEF-RDL-MVOLT-GZ10-40K-80CRI	48" STRIPLIGHT	120	32	SURFACE	A/R	LED	41	4000	80	
	METALUX	4\$NX	0-10 VOLT DIMMING - 10% / 5,000 LUMENS			1						
	HE WILLIAMS	1 75R MPS	ROUND LENS									
	COLUMBIA	MPS										
DL1	LITHONIA	LDN4 40/05 LO4AR TRW LSS MVOLT GZ10	4" DOWNLIGHT	120	6	RECESSED	A/R	LED	6	4000	80	PROVIDE COLD RATED
, , , , , , , , , , , , , , , , , , ,	HE WILLIAMS	4DR	WHITE TRIM / SEMI-SPECULAR FINISH	120	U	NECESSED		LLD	"	4000	00	EMERGENCY BATTERY
	HALO	1 HC4	0-10 VOLT DIMMING - 10% / 500 LUMENS									PACK FOR EXTERIOR FIXTUR
	VANTAGE	V-CLASS	PROVIDE 90 MIN BATTERY BACK UP AS NOTED ON DRAWINGS									PACK FOR EXTERIOR FIXTOR
	VAINTAGE	U-CLASS	PROVIDE 90 WIIN BATTERT BACK OF AS NOTED ON DRAWINGS									
)W1	LITHONIA	LDN4 40/05 LW4AR TRW LSS MVOLT GZ10	4" DOWNLIGHT WALL WASH	120	23	RECESSED	A/R	LED	23	4000	80	
	HE WILLIAMS	_ 4DR	WHITE TRIM / SEMI-SPECULAR FINISH	'2"	20	112020025	'\'	225		1000	"	
	HALO	1 HC4	0-10 VOLT DIMMING - 10% / 500 LUMENS									
	VANTAGE	V-CLASS	PROVIDE 90 MIN BATTERY BACK UP AS NOTED ON DRAWINGS									
	VAILAL	VOLNOS	THOUBE SO WIN BATTERY BACK OF ACTIONED ON BIGHTINGS									
SP1	LITHONIA	CPX 2X4 3000LM 80CRI 40K SWL MIN10 ZT	2'x4' TROFFER	120	29	LAY-IN	A/R	LED	29	4000	80	
	METALUX	24CGTX	SATIN WHITE LENS / ALUMINUM FRAME	'			'''				"	
	DAY-BRITE	2FRZ	0-10 VOLT DIMMING - 10% / 3.000 LUMENS									
	II P	VPAN24	PROVIDE 90 MIN BATTERY BACK UP AS NOTED ON DRAWINGS									
	151	VITABLET	THOUBE SO WIN BATTERY BACK OF ACTIONED ON BIGHTINGS									
GP1	LITHONIA	CPX 2X2 2000LM 80CRI 40K SWL MIN10 ZT	2'x2' TROFFER	120	19	LAY-IN	A/R	LED	19	4000	80	
	METALUX	22CGTX	SATIN WHITE LENS / ALUMINUM FRAME									
	DAY-BRITE	2FRZ	0-10 VOLT DIMMING - 10% / 2.000 LUMENS									
	ILP	VPAN22										
						1						
P1 N	MARK ARCHITECTURAL	S1LIDP 4X4P_90C 90CRI 40K 800LMP	4' X 4' SQUARE PENDANT FIXTURE	120	44	PENDANT	A/R	LED	44	4000	80	CONFIRM PENDANT LENGTH
	LIGHTING	190CRI 140K 1400LMF MIN1 SCT DRP1 MVOLT	800 LUMENS/FT DIRECT WITH 1" DROP LENS									WITH ARCHITECT
		F1/36A SQCY WHTCY WWCRD	400 LUMENS/FT INDIRECT WITH FLUSH LENS									
	NULITE	RP24	0-10 VOLT DIMMING - 10%									
	LUMENWERX	(1) VIA4	FINISH: STANDARD COLOR BY ARCHITECT									
	LEDALITE	TRUGROOVE				1						
SP1	LITHONIA	CPX 1X4 4000LM 80CRI 40K SWL MIN10 ZT 1X4 SMKSH	1'x4' TROFFER	120	37	SURFACE	A/R	LED	37	4000	80	
	METALUX	14CGTX	SATIN WHITE LENS / ALUMINUM FRAME]		I			
	DAY-BRITE	1FRZ	SURFACE MOUNT KIT						I			
	ILP	VPAN14	0-10 VOLT DIMMING - 10% / 4,000 LUMENS			1			1			
			PROVIDE 90 MIN BATTERY BACK UP AS NOTED ON DRAWINGS			1						
									<u> </u>			
X1	LITHONIA	LQM-S-W-3-G-120-EL-N-SD	THERMOPLASTIC EXIT SIGN	120	1.5	UNIVERSAL	A/R	LED	1.5	N/A	N/A	
	DUAL-LITE	EVEUGWEI	SINGLE FACE / GREEN LETTERS			1			1			
	SURE-LITE	(1) LPX7SD	NICKLE CADIMUM BATTERY / SELF-DIAGNOSTICS]		I			
	CHLORIDE	VEGWEM	STANDARD COLOR BY ARCHITECT	1		I	1		I	1	1 I	

KEYED NOTES:

1. ALL MANUFACTURES LISTED ARE APPROVED TO BID THIS FIXTURE. LIGHT FIXTURE SHALL BE AN EQUIVALENT TO THE SPECIFIED. IF AN EQUIVALENT CAN NOT BE PROVIDED THE SPECIFIED FIXTURE SHALL BE USED.

	SWITCH SCHEDULE
SYMBOL	CONFIGURATION
\$	ON/OFF
\$3	3-WAY ON/OFF
\$os	WALL MOUNT OCCUPANCY SENSOR SWITCH (AUTO ON/AUTO OFF)
\$ _{vs}	WALL MOUNT VACANCY SENSOR SWITCH (MANUAL ON/AUTO OFF)
\$abc	DIMMING SWITCH, "a,b,c" INDICATES ZONE CONTROL

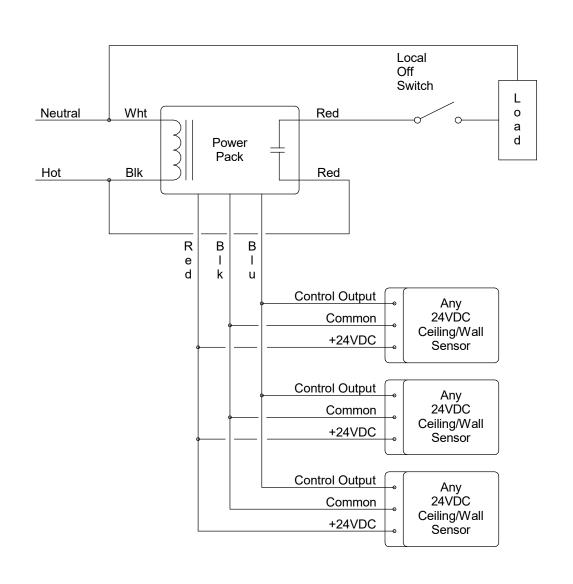


/ SCALE: NONE

PHOTO CELL IN NEUTRAL OUT TIME **SWITCH** IN NEUTRAL OUT HOT EXTERIOR LIGHTING CIRCUIT NEUTRAL TO BUILDING EXTERIOR LIGHTS 120V. MANUAL
BYPASS
SWITCH
LABEL AS
"BUILDING LIGHTS"

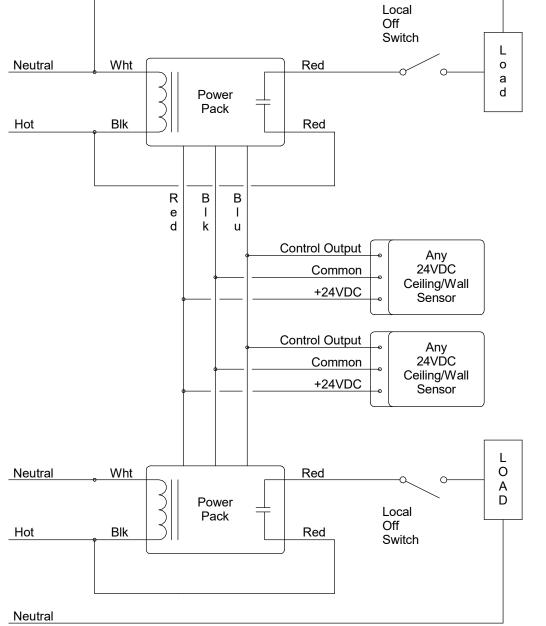
5 BUILDING EXTERIOR LIGHTING CONTROL DIAGRAM

SCALE: NONE



SCALE: NONE

MULTIPLE OCCUPANCY SENSORS USING ONE POWER PACK



3 MULTIPLE OCCUPANCY SENSORS CONTROLLING TWO CIRCUITS
SCALE: NONE



LIGHT FIXTURE SCHEDULE

Project Number:

ENGINEERING 240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115

P (801) 534-1130 F (801) 534-1080 www.envisioneng.com ENV:2023-011



Revision Schedule

Review Commnets 06/14/23

Description

Date

ea architecture 11576 South State Street, Suite 103b Draper, Utah 84020

Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mountain View Jr

Seminary

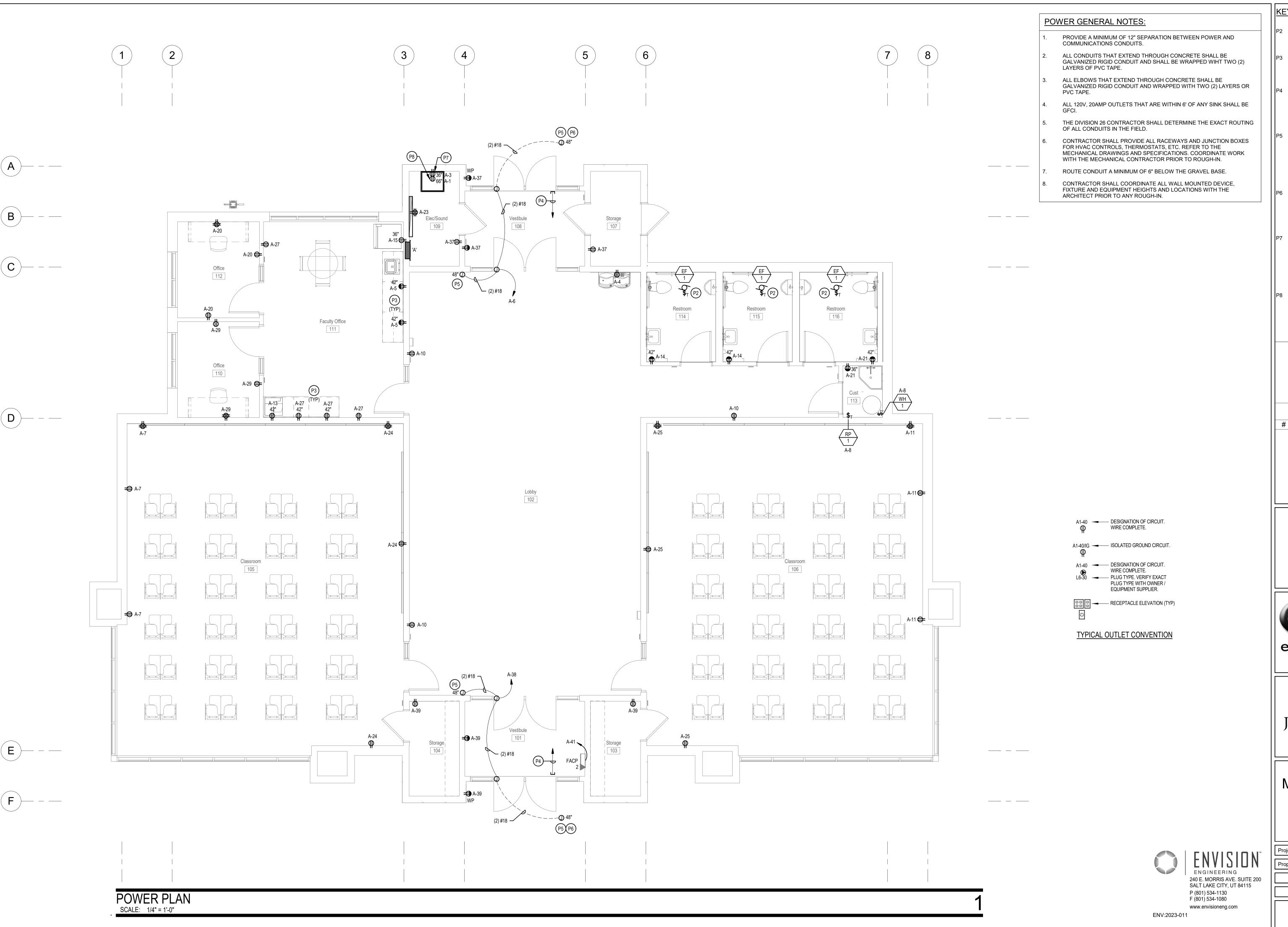
A New Building for

2535 West Wilson Lane West Haven, Utah

502-1091-2202010⁻ Property Number: May 1, 2023

22-59

EL601



KEYED NOTES (#)

SWITCH WITH LIGHTS. SEE LIGHTING PLAN FOR CIRCUIT AND CONTROLS.

COORDINATE INSTALLATION AND

LOCATION OF DEVICE(S) WITH MILLWORK, ARCHITECT AND OWNER PRIOR TO ANY ROUGH-IN.

EXTEND A 3/4" CONDUIT WITH PULL STRING FROM THE DOOR HEADER TO THE TELEPHONE BOARD FOR FUTURE ACCESS CONTROL SYSTEM. LABEL CONDUITS "ACCESS CONTROL".

ADA DOOR CONTROLS ARE FURNISHED BY THE DOOR HARDWARE SUPPLIER AND INSTALLED AND CONNECTED BY THE CONTRACTOR. PROVIDE A 4" SQUARE, 2-1/8" DEEP BOX. SWITCHES TO SIMULTANEOUSLY CONTROL BOTH DOORS.

MOUNT ADA CONTROL ON POST IN LOCATION AS DIRECTED BY THE ARCHITECT. CONFIRM ALL REQUIREMENTS AND EXACT LOCATION WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN.

MOUNT RECEPTACLE IN JUNCTION BOX FOR DATA RACK. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH THE DATA SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. SEE SHEET ET101 AND ET501 FOR ADDITIONAL INFORMATION.

MOUNT RECEPTACLE IN JUNCTION BOX FOR AV RACK. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH THE AV SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. SEE SHEET ET101 AND ET501 FOR ADDITIONAL INFORMATION.

Revision Schedule

Description Date

DAVID P.
WHITTON
No.264397

ATE OF UTATION



Project for:

THE CHURCH OF

JESUS CHRIST
OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

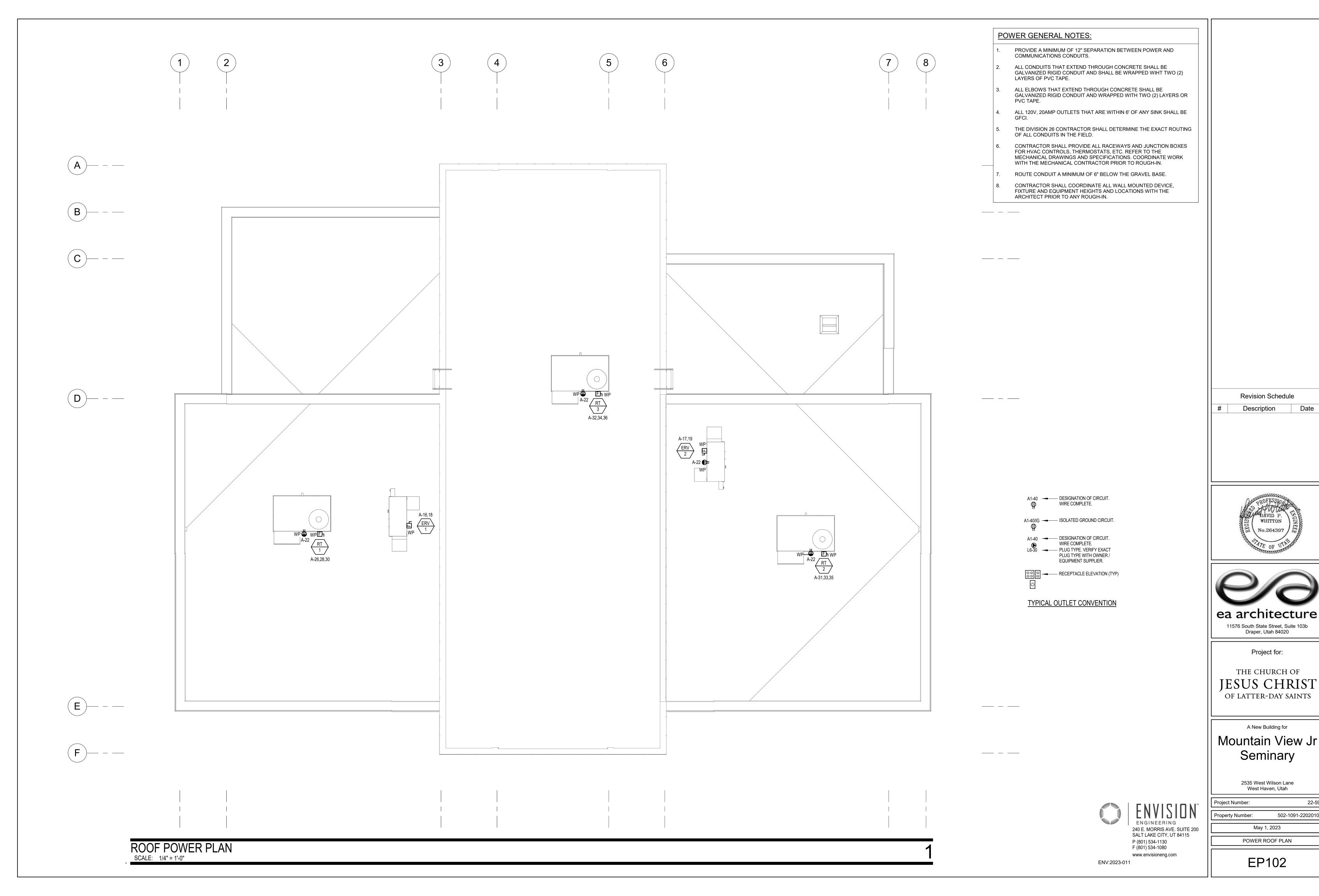
Project Number:

Property Number: 502-1091-2202010

POWER PLAN

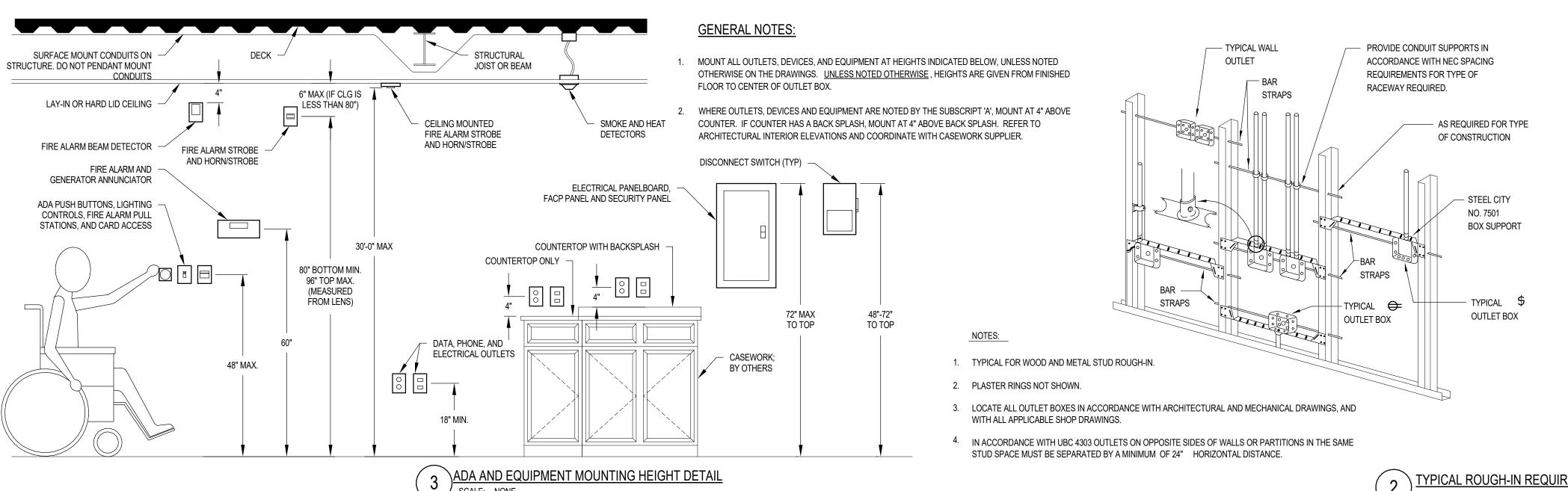
EP101

May 1, 2023



Date

502-1091-2202010⁻



TYPICAL ROUGH-IN REQUIREMENTS

IF PANEL BOARD IS FEED FROM A TRANSFORMER LOCATED IN THE SAME ROOM AS THE PANEL. THE TOTAL LENGTH OF BRANCH CIRCUITS SHALL NOT EXCEED THE FOLLOWING:

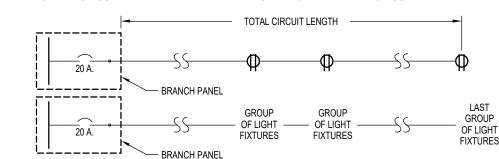
	120 VOLTS	277 VOLTS
a - USING #12 AWG	90 FT.	180 FT.
b - USING #10 AWG	150 FT.	300 FT.
c - USING #8 AWG	250 FT.	450 FT.
d - USING #6 AWG	380 FT.	700 FT.

THE ABOVE CIRCUIT LENGTHS ARE BASED ON 4% VOLTAGE DROP AT 16 AMPS LOAD AT THE END OF THE CIRCUIT. SAME WIRE SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.

IF PANELBOARD IS FEED FROM A TRANSFORMER LOCATED REMOTELY FROM THE PANEL. THE TOTAL LENGTH OF BRANCH CIRCUITS SHALL NOT EXCEED THE FOLLOWING:

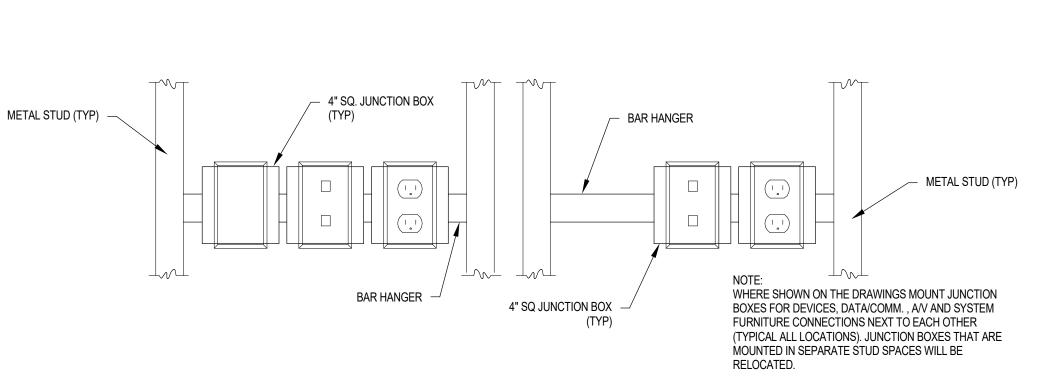
	120 VOLTS	277 VOLTS
a - USING #12 AWG	75 FT.	180 FT.
b - USING #10 AWG	125 FT.	260 FT.
c - USING #8 AWG	205 FT.	420 FT.
d - USING #6 AWG	325 FT.	660 FT.

THE ABOVE CIRCUIT LENGTHS ARE BASED ON 3% VOLTAGE DROP AT 16 AMPS LOAD AT THE END OF THE CIRCUIT. SAME WIRE SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT.



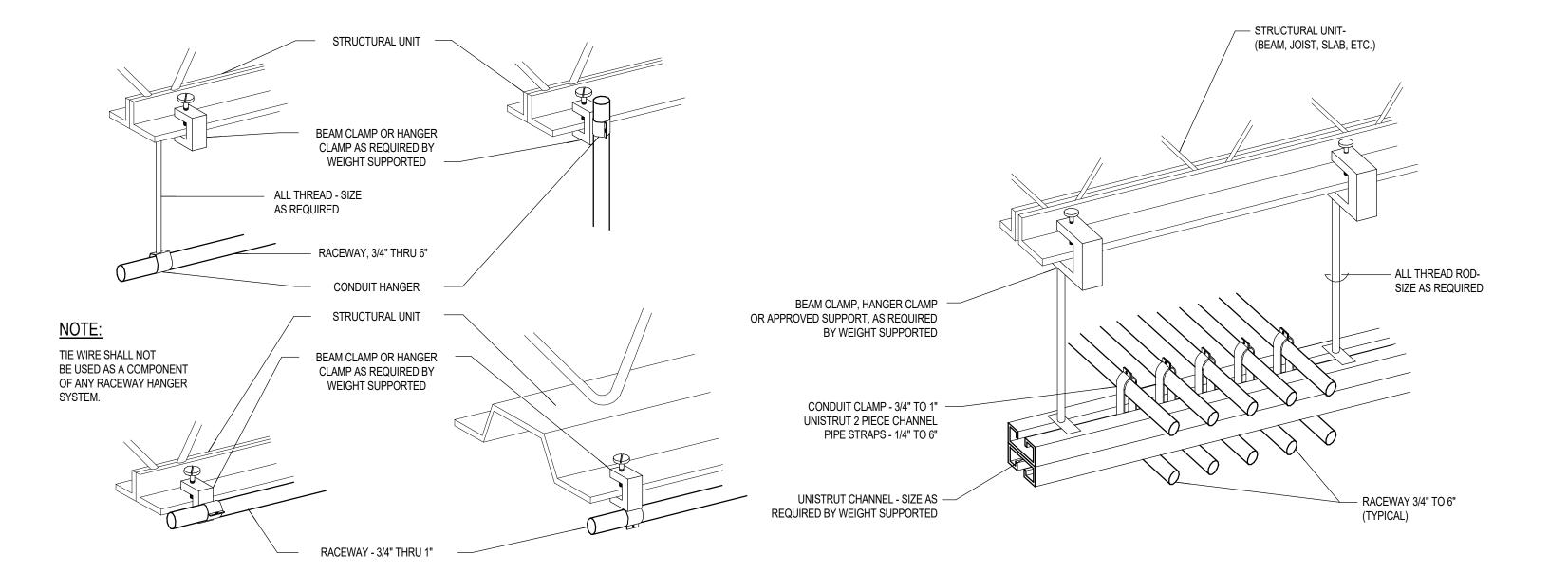
BRANCH CIRCUIT DEFINITION: CIRCUIT ORIGINATING FROM A 20 AMP CIRCUIT BREAKER IN A BRANCH PANEL AND ENDING AT THE LAST DUPLEX OUTLET ON THE CIRCUIT OR ENDS AT THE LAST LIGHT FIXTURE.

TYPICAL BRANCH CIRCUIT LENGTH DETAIL SCALE: SCHEMATIC

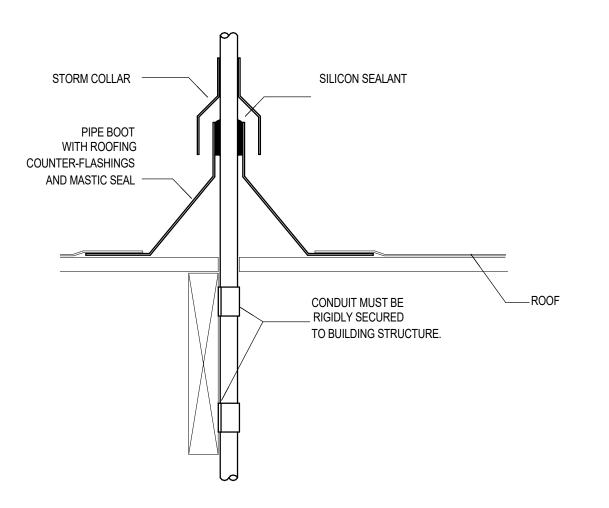


SCALE: NONE

6 TYPICAL JUNCTION BOX MOUNTING DETAIL SCALE: NONE



TYPICAL RACEWAY DETAILS SCALE: NONE



CONDUIT THROUGH ROOF FLASHING DETAIL



Revision Schedule

Description

Date



Draper, Utah 84020 Project for:

THE CHURCH OF

JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

Project Number: 502-1091-2202010 Property Number: ENGINEERING 240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115 May 1, 2023

EP501

POWER DETAILS

www.envisioneng.com ENV:2023-011

P (801) 534-1130

F (801) 534-1080

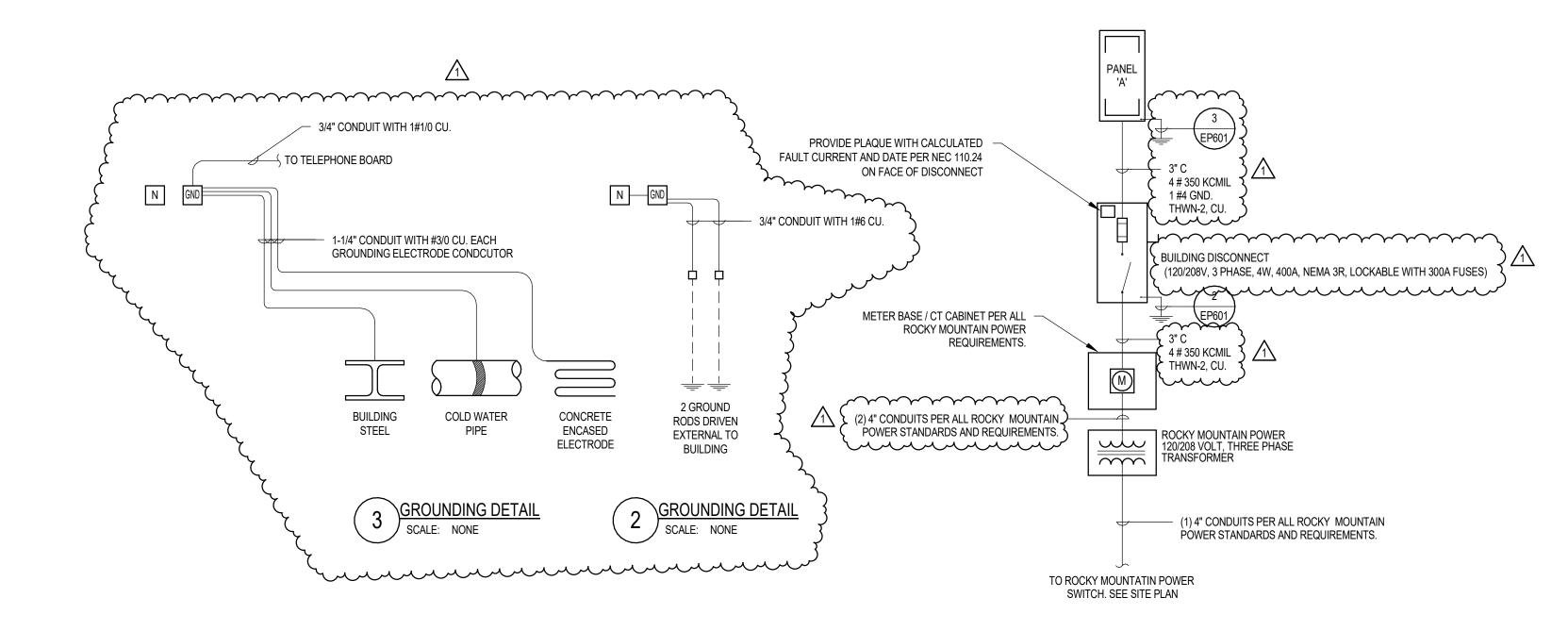
GENERAL ONE-LINE NOTES:

THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH ROCKY MOUNTAIN POWER PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATING ACCORDINGLY. SUBMIT FAULT CURRENT CALCULATIONS WITH SHOP DRAWINGS SUBMITTAL.

- PROVIDE FULL LENGTH VERTICAL BUSSING IN ALL SWITCHBOARDS, DISTRIBUTION PANELBOARDS, AND PANELBOARDS.
- COORDINATE SPACE WITH ALL OTHER TRADES TO MAINTAIN ALL CODE-REQUIRED CLEARANCES.

FEEDER GENERAL NOTES:

- CONTRACTOR SHALL REVIEW THE -LINE DIAGRAM AND CONFIRM FEEDER WIRE SIZES. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO BID. IF DISCREPANCIES EXIST. CONTRACTOR SHALL PROVIDE CORRECT WIRE SIZE BASED ON ACTUAL BREAKER SIZE AND ANY VOLTAGE DROP ADJUSTMENTS. SEE NEC 210.19, 215.2, 250.112, AND 310,15.
- ALL GROUNDING WIRES SHOWN IN FEEDER SCHEDULE ARE COPPER WIRES.
- ALL SYSTEM BONDING JUMPER CONDUCTORS SHOWN ARE TO BE RUN IN EACH PARALLEL FEEDER SET



FAULT CURRENT CALCULATION GENERAL NOTES:

- 1. ALL OVERCURRENT PROTECTIVE DEVICES SHALL HAVE THE SAME FAULT CURRENT RATING AS THE RATING OF THE PANEL OR SWITCHBOARD THEY ARE LOCATED IN.
- 2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A LAMINATE LABEL ON BUILDING DISCONNECT AND PANEL 'A' INDICATING THE MAXIMUM AVAILABLE FAULT CURRENT AT THE PANEL. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CALCULATIONS BASED ON THE ACTUAL UTILITY TRANSFORMER USED ON THE PROJECT. THE LABEL SHALL INCLUDE THE DATE THE CALCULATIONS WHERE COMPLETED, THE MAXIMUM AVAILABLE FAULT CURRENT AND OTHER INFORMATION AS REQUIRED BY NEC 110.24.
- 3. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE ROCKY MOUNTAIN POWER PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATED ACCORDINGLY.



	FAULT CUR	RENT	SCH	EDULE	=									
SERVICE XFMR	AVAILABLE LET-THRU SHOR CIRCUIT CURRENT FAULT AT SEC. OF XFMR	LINE TO LINE VOLTAGE	KVA	%Z	FLA	M								
UT-1	7710	208	75	2.7	208	37.04								
												I AVAII ABLE I		
PANEL NAME	UPSTREAM AVAILABLE FAULT CURRENT	LENGTH	WIRE SIZE	CABLE TYPE	WIRE TYPE	CONDUIT TYPE	CONSTANT	LINE TO LINE VOLTAGE	NUMBER OF PARALLEL CONDUCTORS	F	М	AVAILABLE FAULT CURRENT AT PANEL	PANEL RATING	AIC RATING
Α	7710	64	4/0	1/C	AL	PVC	11174	208	1	0.3677	0.7311	5,637	FULL	10,000

PANELBOARD SCHEDULE

BRANCH BREAKERS

VOLTAGE: 120/208 Wye

PHASE: 3

WIRES: 4

PANEL NAME: A

MOUNTING: RECESSED **ENCLOSURE**: NEMA 1 **DOOR TYPE:** DOOR IN DOOR Min. A.I.C. RATING: 10K

LOCATION: Elec/Sound 109 MAIN TYPE: MCB BUS RATING: 400 A MCB RATING: 300 A BUS MATERIAL: ALUMINUM

FEED FROM: SPD: CAT.A **NEUTRAL RATING:** 100% **ISOLATED GROUND:** NONE

KEYED NOTE	CIRCUIT DESCRIPTION	AMP	POLE	Load Type	CKT #		A	ı	В		С	CKT #			E AMP	CIRCUIT DESCRIPTION	KEYED NOTE
	CO AV RACK	20 A	1	Е	1	180 VA	416 VA					2	L	1	20 A	LTG EXTERIOR	
	CO DATA RACK	20 A	1	E	3			180 VA	600 VA			4	E	1	20 A	EWC	1
	CO FACULTY OFFICE 111	20 A	1	R	5					360 VA	2400 VA	6	E	1	20 A	ADA DOOR VEST 108	
	CO CLASSROOM 105	20 A	1	R	7	720 VA	738 VA					8	М	1	20 A	WATER HEATER ; REC PUMP	
	LTG STORAGES, OFFICE,	20 A	1	L	9			702 VA	540 VA			10	R	1	20 A	CO LOBBY	
	CO CLASSROOM 106	20 A	1	R	11					720 VA	916 VA	12	L	1	20 A	LTG LOBBY, CLASSROOM 106	
	CO COPIER	20 A	1	R	13	1500 VA	360 VA					14	R	1	20 A	CO RR 114, RR 115	
1	CO REFRIGERATOR	20 A	1	K	15			1200 VA	1050 VA			16	М	2	20 A	ERV-1	
	ERV-2	20 A	2	М	17					1050 VA	1050 VA	18					
					19	1050 VA	720 VA					20	R	1	20 A	CO OFFICE 112	
	CO RR 116, CUST 113	20 A	1	R	21			360 VA	720 VA			22	R	1	20 A	CO ROOF	
	FOURPLEX ELEC/SOUND 109	20 A	1	R	23					360 VA	720 VA	24	R	1	20 A	CO CLASSROOM 105	
	CO CLASSROOM 106	20 A	1	R	25	720 VA	3963 VA					26	М	3	(45 A	RT-1	
	CO FACULTY OFFICE 111	20 A	1	R	27			720 VA	3963 VA			28			}	Κ- Δ	
	CO OFFICE 110	2QA	1	R	29					720 VA	3963 VA	30			}	2- 4	
	RT-2	45 A	3	М	31	3963 VA	3603 VA					32	М	3	45 A	∤ RT-3	
			3		33			3963 VA	3603 VA			34			{	<u>}</u>	
	(3		35					3963 VA	3603 VA	36				}	
	CO 107, 108, 109	20 A	1	R	37	720 VA	2400 VA					38	Е	1	ZOX	ADADOQB-VEST 101	$\sim \Lambda$
	CO 101, 104, 104	20 A	1	R	39			720 VA	26 VA			40	L	2		LTG PARKING LOT / BOLLARD	3 4
	FACP	20 A	1	Е	41					600 VA	26 VA	42			{		3
	-SPARE-	20 A	1		43	0 VA	0 VA					44		1	20 A	-SPARE-	~
	-SPARE-	20 A	1		45			0 VA	0 VA			46		1	_	-SPARE-	
	-SPARE-	20 A	1		47					0 VA	0 VA	48		1	20 A	-SPARE-	
	-SPACE ONLY-		1		49							50		1		-SPACE ONLY-	
	-SPACE ONLY-		1		51							52		1		-SPACE ONLY-	
	-SPACE ONLY-		1		53							54		1		-SPACE ONLY-	
	TOTAL CONNECTE	D LOA	D PER	PHAS	E (VA)	2105	3 VA	1834	6 VA	2045	51 VA						
	TOTAL CONNECTED CURF	RENT F	PER PH	IASE (A	AMPS)	17	8 A	15	3 A	17	3 A						
TYPE	LOAD CLASSIFICATION			CC		TED LOA	D DEN	MAND FAC	CTOR	ESTIMATE		ID				PANEL TOTALS	
Р	Panel				0 VA			0.00%		0 VA							
R	R Receptacle				9540 VA			100.00%)	954	10 VA	Total Conn. L			otal Co	onn. Load: 59850 VA	
L	Lighting	hting 2085 VA 125.00%					2606 VA 25% OF LARGEST MOTOR:										
С	Continuous	0 VA 0.00%					0	VA			To	tal Est	. Demand : 63344 VA				
E	Equipment				750	00 VA		100.00%)	750	00 VA			Tot	al Conr	n. Current: 166 A	
М	Motor				395	25 VA		107.52%		424	97 VA		Total	Est.	Deman	d Current: 176 A	
K	Kitchen				120	00 VA		100.00%)	120	00 VA						
0	Other				0	VA		0.00%		0	VA						

PANELBOARD SCHEDULE KEYED NOTE:

- PROVIDE CLASS A GROUND FAULT INTERRUPTER TYPE CIRCUIT BREAKER.
- PROVIDE ARC FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER. PROVIDE 30 MILLIAMPERE EQUIPMENT GROUND FAULT PROTECTOR TYPE CIRCUIT BREAKER.
- PROVIDE SHUNT TRIP CIRCUIT BREAKER WITH 120 V COIL. PROVIDE HACR RATED CIRCUIT BREAKER.
- PROVIDE HANDLE CLAMP FOR HOLDING CIRCUIT BREAKER IN THE "ON" OR "OFF" POSITION.
- PROVIDE SWITCHING RATED CIRCUIT BREAKER.
- 8. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANELBOARD (WHERE PANEL IS LABELED AS EXISTING) OF SAME MANUFACTURER AND A.I.C. RATING AS EXISTING. 9. EXISTING LOAD.
- 10. PROVIDE WITH PADLOCK HASP.

PANELBOARD SCHEDULE GENERAL NOTES

- PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUIT PER NEC AND THE SPECIFICATIONS.
- CONTRACTOR SHALL UPSIZE ALL BRANCH CIRCUITS AS NECESSARY FOR VOLTAGE DROP WHETHER SHOWN OR NOT.

PANELBOARD SCHEDULE NOTES

CONTRACTOR SHALL USE THE ROOM NAMES LISTED ON THE ARCHITECTURAL SIGNAGE PLAN FOR ALL ROOM NAMES ON THE FINAL PANEL SCHEDULE CIRCUIT DESCRIPTIONS. IF IT IS FOUND THAT THE ARCHITECTURAL FLOOR PLAN ROOM NAMES HAVE BEEN USED THE SCHEDULES WILL BE UPDATED FOR THE CORRECT ROOM NAMES AT NO ADDITIONAL COST TO THE OWNER.

Revision Schedule

Review Commnets 06/14/23

Date

Description

Project for:

11576 South State Street, Suite 103b Draper, Utah 84020

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

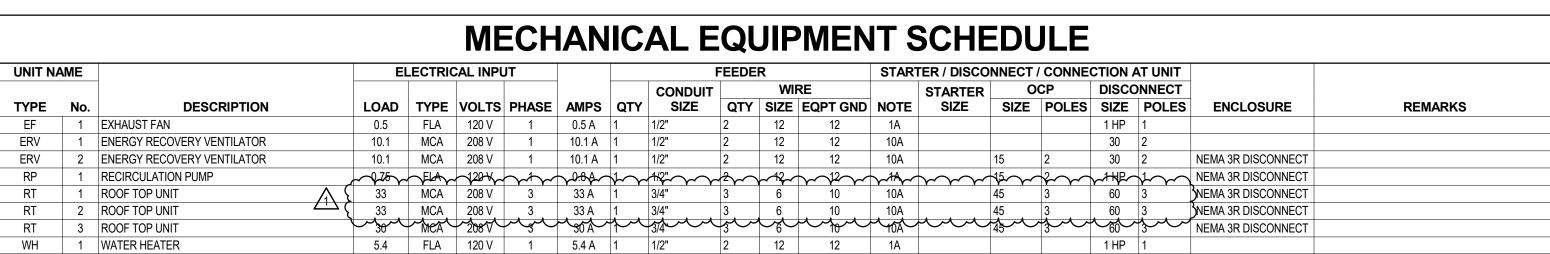
> 2535 West Wilson Lane West Haven, Utah

> > 22-59

Project Number Property Number: 502-1091-2202010

> May 1, 2023 SCHEDULES AND ONE-LINE

> > **EP601**



STARTER/DISCONNECT/CONNECTION AT UNIT NOTES:

- 1. MANUAL STARTER WITH THERMAL OVERLOAD
- 2. MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY / CONTACTOR FOR ATC CONTROL.
- COMBINATION MAGNETIC STARTER / FUSED DISCONNECT
- COMBINATION MAGNETIC STARTER / MOTOR CIRCUIT PROTECTOR (MCP) COMBINATION VARIABLE FREQUENCY DRIVE / MOTOR CIRCUIT PROTECTOR (MCP)
- REDUCED VOLTAGE STARTER
- 9. NON-FUSED DISCONNECT SWITCH
- COMBINATION TWO-SPEED STARTER / FUSED DISCONNECT 8. COMBINATION TWO-SPEED STARTER / MOTOR CIRCUIT PROTECTOR (MCP)
- 12. DIRECT CONNECTION 13. DUPLEX RECEPTACLE OUTLET 14. SPECIAL PURPOSE OUTLET 15. SHUNT-TRIP DISCONNECT

11. BREAKER AND ENCLOSURE

16. TOGGLE SWITCH 17. MAGNETIC STARTER 18. FUSED ELEVATOR SWITCH 19. PROVIDE EARLY-BREAKER RELAY

WITH CONTROL WIRING BETWEEN

- A. FURNISHED, INSTALLED & CONNECTED UNDER DIVISION 26. B. FURNISHED & INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTIONS

UNDER DIVISION 26

- C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER
- D. FURNISHED, INSTALLED & CONNECTED UNDER ANOTHER DIVISION
- E. FURNISHED BY OWNER, INSTALLED & CONNECTED BY DIVISION 26

10. FUSED DISCONNECT SWITCH **GENERAL NOTES:**

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND SIZE FEEDER, STARTER, DISCONNECT AND OVERCURRENT PROTECTION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OF ACTUAL EQUIPMENT

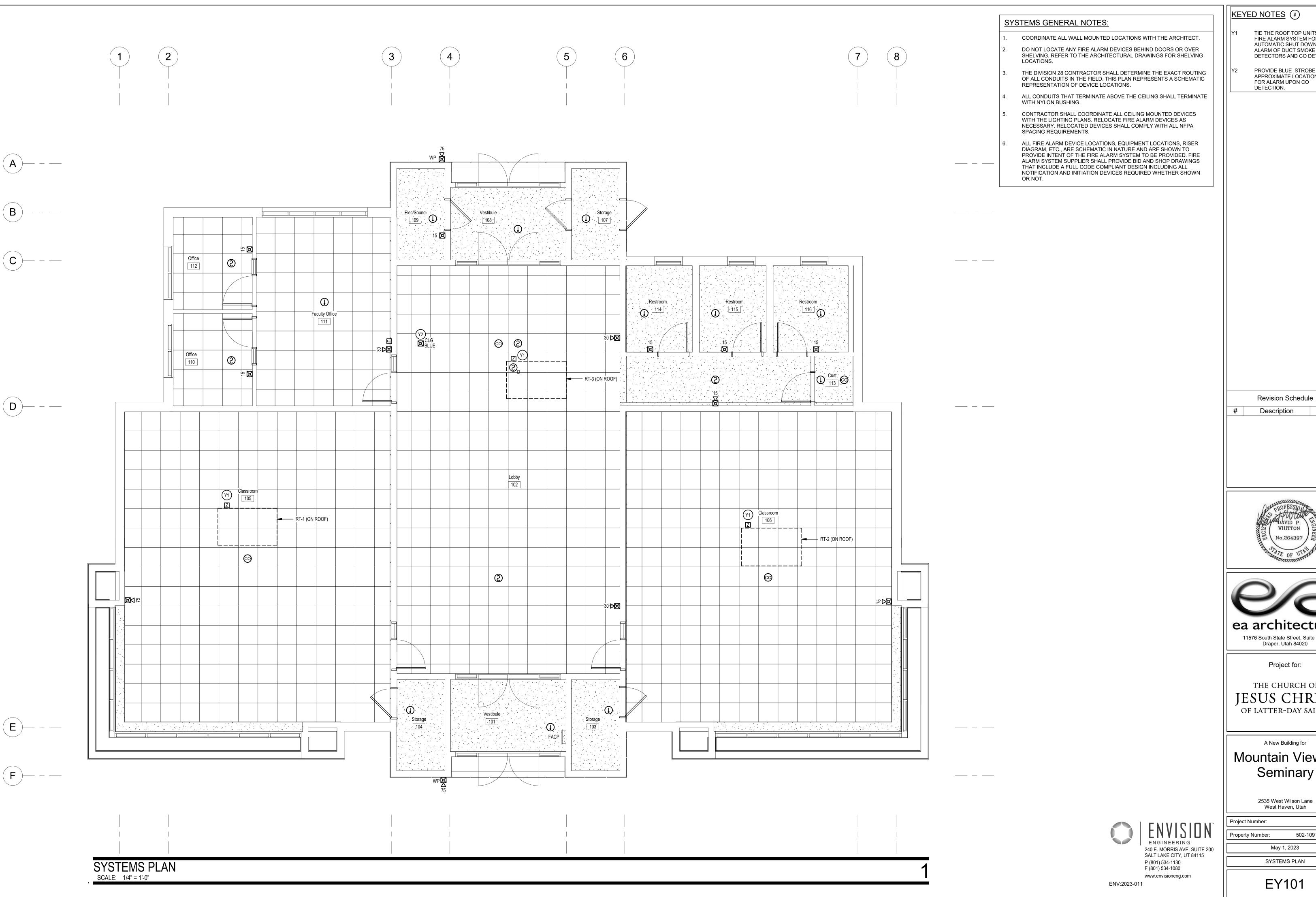
VFD AND RELAY.

- SUPPLIED. ALL CONDUCTORS USED SHALL BE COPPER.
- ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS PRIOR TO BID.
- ELECTRICAL CONTRACTOR SHALL REVIEW OTHER TRADE SUBMITTALS FOR ANY EQUIPMENT REQUIRING CONNECTION BY ELECTRICAL CONTRACTOR AND COORDINATE ALL REQUIREMENTS PRIOR TO ROUGH-IN.
- 5. SIZE ALL FUSES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

ENGINEERING 240 E. MORRIS AVE. SUITE 200 SALT LAKE CITY, UT 84115 P (801) 534-1130 F (801) 534-1080

ENV:2023-011

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KEYED NOTES #

TIE THE ROOF TOP UNITS TO THE FIRE ALARM SYSTEM FOR AUTOMATIC SHUT DOWN UPON ALARM OF DUCT SMOKE DETECTORS AND CO DETECTION.

PROVIDE BLUE STROBE IN THE APPROXIMATE LOCATION SHOWN FOR ALARM UPON CO DETECTION.

Description

Date



Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for

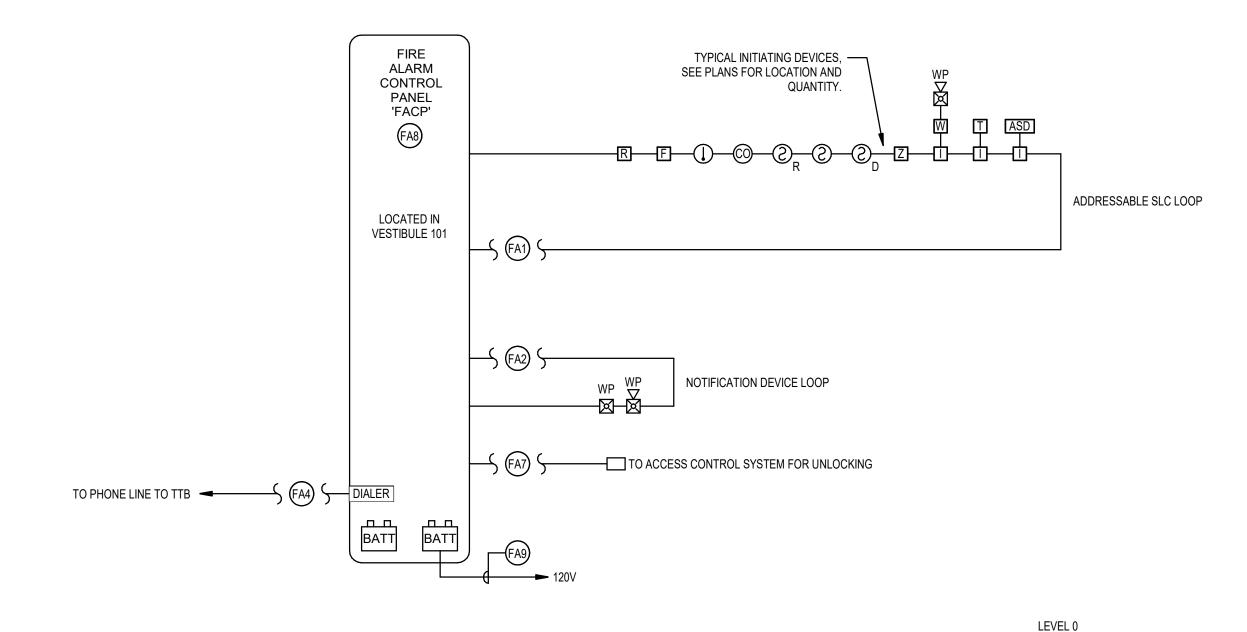
Mountain View Jr Seminary

2535 West Wilson Lane West Haven, Utah

502-1091-2202010² Property Number:

May 1, 2023 SYSTEMS PLAN

EY101



FIRE RISER DIAGRAM HORN ALARM

SCALE: NT

FIRE ALARM SYSTEM GENERAL NOTES:

ADDITIONAL INFORMATION.

- 1. PROVIDE ADDRESSABLE FIRE ALARM SYSTEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. THE SYSTEM SHALL BE PROGRAMMED SO THAT IF ANY INITIATION DEVICE IS ACTUATED, AN ALARM SIGNAL WHICH IS AUDIBLE THROUGHOUT THE BUILDING ZONES AS REQUIRED BY THE FIRE MARSHAL WILL BE ACTIVATED.
- 3. WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO ANOTHER. NO SPLICING IS ALLOWED. REFER TO THE SPECIFICATIONS FOR THE OWNER CABLING REQUIREMENTS.
- 4. PROVIDE FIRE ALARM MAP OF THE BUILDING SHOWING ALL FIRE ALARM SYSTEM DEVICES. MAP TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
 - A. EXACT LOCATIONS OF ALL DEVICES, FIRE ALARM CONTROL PANEL AND NAC PANELS.

 ROOM NAMES
- C. ALL DEVICE ADDRESS SHALL BE INDICATED ON THE DRAWINGS.
 D. ALL MAPS SHALL BE 11"X17". PROVIDE ONE SET IN A SLEEVED 3 RING BINDER. DELIVER
 3 RING BINDER WITH MAPS TO THE ELECTRICAL ENGINEER FOR REVIEW AND
 APPROVAL AS PART OF THE CLOSE DOCUMENTS. REFER TO THE SPECIFICATIONS FOR
- FIRE ALARM RISER CABLING SHALL BE RUN IN CONDUIT. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUIT, JUNCTION BOXES AND FITTINGS SHALL BE RED IN COLOR AND LABELED PER ALL OWNER STANDARDS. ALL CABLING SHALL BE RATED FOR USE IN A FIRE ALARM SYSTEM PER ALL NFPA AND NEC REQUIREMENTS.
- THE FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE COMPUTER DRAFTED SHOP DRAWINGS OF THE ENTIRE FIRE ALARM SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. SHOP DRAWINGS TO INCLUDE BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, PLANS, SECTIONS, ELEVATIONS, FINAL DEVICE LOCATIONS AND ADDRESS, CONDUIT SIZE AND ROUTING AND ALL CONDUCTOR SIZES (SEE SPEC FOR OWNER STANDARDS). TYPICAL RISERS AND CALCULATIONS WILL NOT BE ACCEPTED. ALL SHOP DRAWINGS SHALL BE PREPARED AND APPROVED BY A NICET CERTIFIED FIRE ALARM TECHNICIAN, LEVEL III OR GREATER.
- 7. ALL NOTIFICATION DEVICE CIRCUIT VOLTAGE DROP CALCULATIONS SHALL BE DONE IN COMPLIANCE WITH NFPA 72. THE FIRE ALARM SYSTEM SUPPLIER TO DETERMINE THE AMOUNT NOTIFICATION DEVICE CIRCUITS THAT ARE REQUIRED BASED ON THE NUMBER OF THE NOTIFICATION DEVICES SHOWN ON THE DRAWINGS. THE FIRE ALARM SUPPLIER SHALL DETERMINE THE AMOUNT OF 'NAC' PANELS THAT WILL BE REQUIRED BASED ON THE QUANTITY OF NOTIFICATION DEVICE CIRCUITS.
- 8. FAN SHUT DOWN RELAY(S) IN THE AIR HANDLING EQUIPMENT SHALL BE NORMALLY ENERGIZED, AND CONNECTED THROUGH AND CONTROLLED BY A NORMALLY CLOSED CONTACT IN THE FIRE ALARM PANEL, OR A NORMALLY CLOSED CONTACT OF A REMOTE RELAY UNDER SUPERVISION BY THE MAIN PANEL. THE RELAYS WILL TRANSFER ON ALARM, AND SHALL NOT RESTORE UNTIL THE PANEL IS RESET.
- . AUDIBLE ANNUNCIATION DEVICES SHALL BE SILENCE-ABLE VIA THE FACP FRONT PANEL WHILE ALLOWING VISUAL ANNUNCIATION DEVICES TO REMAIN IN ALARM.
- 10. SUBMIT TO THE LOCAL AUTHORITY HAVING JURISDICTION, A MINIMUM OF TWO SETS OF PLANS, COMPLETE WITH MANUFACTURER CUT SHEETS, AND BATTERY CALCULATIONS AND FIRE COMMAND CENTER LAYOUT. PLANS MUST BE INK SIGNED BY A NICET LEVEL III OR BETTER IN FIRE ALARM SYSTEMS.
- 11. VERIFY AND COMPLY WITH ALL CURRENT STATE, LOCAL AND NATIONAL CODES. COMPLY WITH ALL NEC AND NFPA REQUIREMENTS.
- 12. UPON CLOSE OUT OF THE PROJECT THE FIRE ALARM SYSTEM SUPPLIER TO PROVIDE A CD(S) WITH CAD AND PDF DRAWINGS OF THE BUILDING FIRE ALARM MAP, CAD AND PDF AS-BUILT DRAWINGS, GENERAL PROGRAMMING, SITE SPECIFIC PROGRAMMING, O&M MANUALS FOR THE FIRE ALARM SYSTEM AND A TUTORIAL ON PROGRAMMING THE SYSTEM. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 13. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITRY AS REQUIRED ACCOMMODATING THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
- 14. FIRE RATINGS SHALL BE MAINTAINED FOR ALL PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- 15. THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS FIRE ALARM CIRCUIT CONTROL. THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- 16. POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST REMAIN SEPARATED IN CABINET. ALL POWER-LIMITED CIRCUIT WIRING MUST REMAIN AT LEAST 0.25 AWAY FROM ANY NON POWER-LIMITED CIRCUIT WIRING. FURTHERMORE, ALL POWER-LIMITED AND NONPOWER-LIMITED CIRCUIT WIRING MUST ENTER AND EXT THE CABINET THROUGH DIFFERENT KNOCKOUTS AND/OR SEPARATE CONDUITS.
- 17. MAINTAIN 40 PERCENT CONDUIT FILL RATIO AS PER NEC REGULATIONS.
- 18. WHEN UTILIZING SHIELDED CABLES, TIE SHIELDS THROUGH AND INSULATE AT EACH JUNCTION BOX. INSULATE AND TAPE BACK TO BACK END OF JUNCTION BOX.
- 19. WHEN UTILIZING CLASS A CIRCUITS, SEPARATE OUTGOING AND RETURN CONDUCTORS BY A MINIMUM OF 12" WHERE RUN VERTICALLY AND 48" WHERE RUN HORIZONTALLY.
- 20. ALL FIRE ALARM CABLING SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE.
- 21. FIRE ALARM CABLE INSTALLED IN DUCTS, PLENUMS, AND OTHER SPACES USED FOR ENVIRONMENTAL AIR SHALL BE TYPE FPLP.
- 22. FIRE ALARM CABLES INSTALLED IN VERTICAL RUNS AND PENETRATE MORE THAN ONE FLOOR OR CABLES INSTALLED IN VERTICAL SHAFTS SHALL BE TYPE FPLR.
- 23. SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER CONSTRUCTION CLEAN-UP IS COMPLETED AND FINAL.
- 24. LOCATE SMOKE DETECTORS A MINIMUM OF THREE(3) FEET FROM MECHANICAL DIFFUSERS.
- 25. PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS.
- 25. PROVIDE STINCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS
- 26. UPON COMPLETION OF THE FIRE ALARM SYSTEM INSTALLATION AND PROGRAMMING, THE INSTALLING CONTRACTOR SHALL PERFORM FINAL TESTING OF THE ENTIRE SYSTEM, PER ALL APPLICABLE CODES, AND SHALL COORDINATE AND PERFORM A FINAL FIRE ALARM INSPECTION.
- 27. INSTALLING CONTRACTOR SHALL, PHYSICALLY, LABEL ALL INITIATING DEVICES. THESE LABELS SHALL BE IN PLACE PRIOR TO START-UP AND TESTING.

SYSTEMS GENERAL NOTES:

- 1. COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
- 2. DO NOT LOCATE ANY FIRE ALARM DEVICES BEHIND DOORS OR OVER SHELVING. REFER TO THE ARCHITECTURAL DRAWINGS FOR SHELVING LOCATIONS.
- THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS.
- 4. ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
- CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE LIGHTING PLANS. RELOCATE FIRE ALARM DEVICES AS NECESSARY. RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SPACING REQUIREMENTS.
- 6. ALL FIRE ALARM DEVICE LOCATIONS, EQUIPMENT LOCATIONS, RISER DIAGRAM, ETC., ARE SCHEMATIC IN NATURE AND ARE SHOWN TO PROVIDE INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED. FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE BID AND SHOP DRAWINGS THAT INCLUDE A FULL CODE COMPLIANT DESIGN INCLUDING ALL NOTIFICATION AND INITIATION DEVICES REQUIRED WHETHER SHOWN OR NOT.

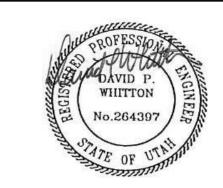
KEYED NOTES (#)

- EXTEND INITIATION CABLES TO ADDRESSABLE FIRE ALARM DEVICES INCLUDING SMOKE AND HEAT DETECTORS, DUCT SMOKE DETECTORS. MONITOR MODULES. CONTROL MODULES, AND MANUAL PULL STATIONS. REFER TO THE FIRE ALARM PLANS FOR QUANTITIES, DEVICE TYPES AND LOCATIONS. INCLUDE 24VDC POWER WIRING AS REQUIRED FOR CONTROL MODULES AND DUCT SMOKE DETECTORS. PROVIDE A MINIMUM OF 20% SPARE CAPACITY PER ADDRESSABLE LOOP, FOR FUTURE USE.
- FA2

 EXTEND NOTIFICATION CABLES TO FIRE ALARM HORN/STROBES AND STROBES. REFER TO THE FIRE ALARM PLANS FOR QUANTITIES, DEVICE TYPES AND LOCATIONS. PROVIDE SYNC MODULES FOR STROBES AS REQUIRED TO COMPLY WITH ALL APPLICABLE ADA CODES. CIRCUIT PER ALL MANUFACTURERS RECOMMENDATIONS. PROVIDE A MINIMUM OF 20% SPARE CAPACITY, IN FACP AND EACH NAC PANEL, FOR FUTURE USE.
- EXTEND A 3/4" CONDUIT WITH TWO
 (2) CAT.6 CABLES TO THE
 TELEPHONE TERMINAL BOARD.
- FA7 EXTEND 3/4" CONDUIT WITH
 CABLING PER ALL
 MANUFACTURERS
 RECOMMENDATIONS.
- FA8 PROVIDE LAMINATE LABEL IN FACP
 WITH PANELBOARD/BRANCH
 CIRCUIT NUMBER AND
 PANELBOARD ROOM NUMBER.
- FA9 EXTEND A 3/4" CONDUIT WITH 2#12
 AND 1#12 GND. TO PANEL SHOWN
 ON PLANS, IDENTIFY BREAKER WITH
 RED LABEL STATING "FIRE ALARM
 CIRCUIT".

Revision Schedule

Description Date





Project for:

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

> 2535 West Wilson Lane West Haven, Utah

Project Number:

Property Number: 502-1091-2202010

22-59

May 1, 2023

FIRE RISER DIAGRAM

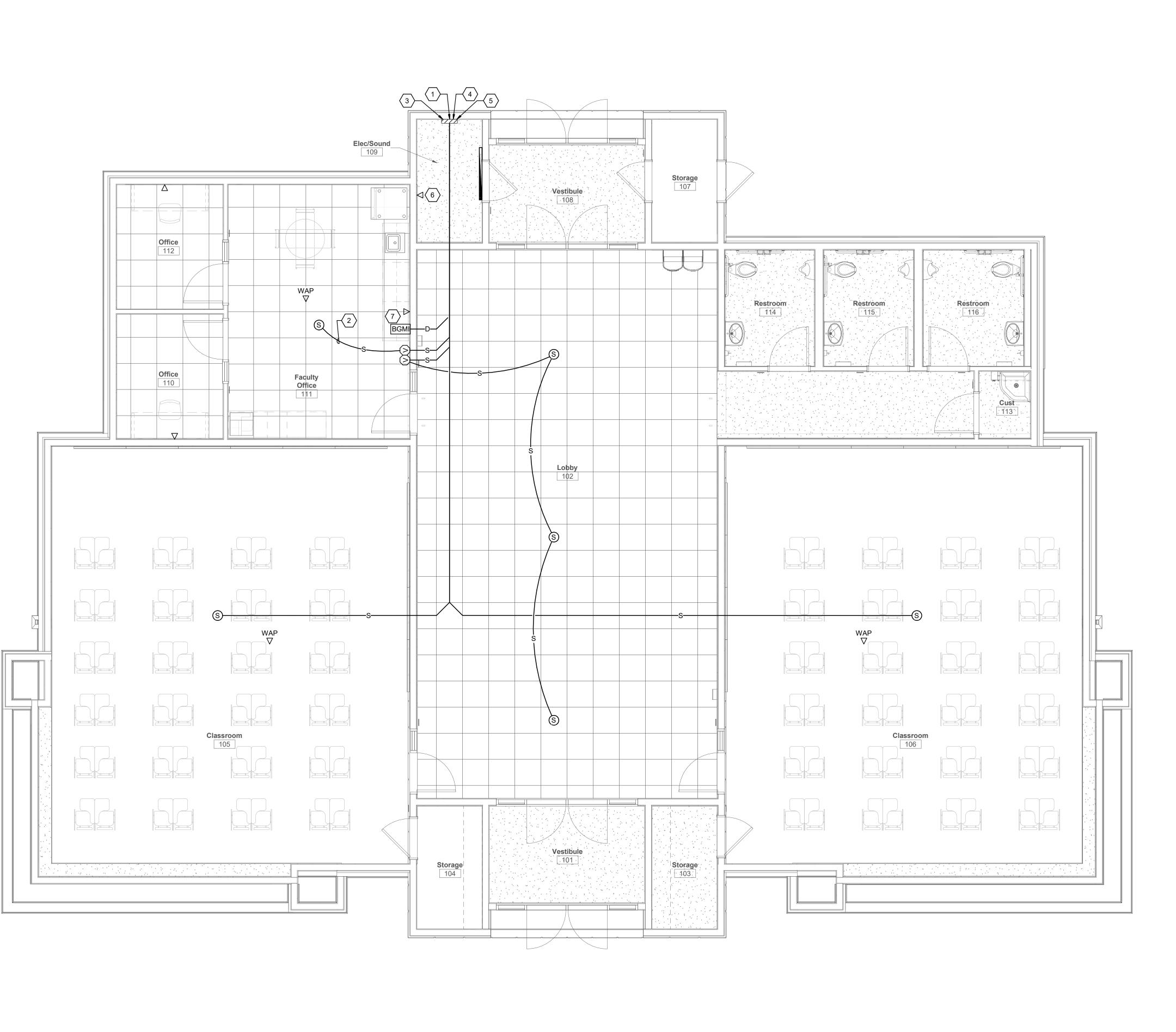
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GENERAL SHEET NOTES

- 1. NO CHANGES SHALL BE MADE WITHOUT THE PROJECT AV/STRUCTURED CABLING CONSULTANT'S WRITTEN CONSENT.
- 2. REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.
- 3. DIVISION 26 INSTALLER IS TO PROVIDE ALL ROUGH-IN INDICATED FOR DIVISION 27 INSTALLER. ALL ROUGH-IN SHALL COMPLY WITH ANSI/TIA/EIA 569-B STANDARDS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE LIMITATION OF (2) 90° BEND FOR CONDUIT. IT IS THE DIVISION 26 INSTALLERS RESPONSIBILITY TO ENSURE COMPLIANCE WITH STANDARD. VOICE-DATA CABLE SHALL BE INSTALLED IN MINIMUM 1" CONDUIT.
- 4. RACEWAY SHALL BE INSTALLED BY DIVISION 26. CABLING SHALL BE INSTALLED BY DIVISION 27. VOICE-DATA CABLING AND TERMINATIONS SHALL COMPLY WITH SECTION 27 1501.
- 5. SPEAKER TRIM RINGS ARE FURNISHED BY DIVISION 27 AND INSTALLED BY DIVISION 26.
- 6. ET SHEETS SHOW WORK AND MATERIALS BY DIVISION 26 AND DIVISION 27. SEE SPECIFICATIONS AND DRAWING NOTES FOR RESPONSIBILITY FOR EACH ITEM.
- 7. ALL CONDUIT STUBS SHALL BE LABELED WITH DESTINATION.
- 8. PROVIDE 200# NYLON PULL CORD IN ALL EMPTY CONDUITS AND TAG BOTH ENDS. CONDUITS SHALL COMPLY WITH ANSI/TIA/EIA 569-A STANDARDS.
- 9. WHERE LOCATED IN INACCESSIBLE WALL, CEILING, OR ATTIC SPACES, AUDIO, VIDEO, AND CONTROL CABLE TO BE INSTALLED IN CONDUIT. CONDUIT SHALL BE A MINIMUM OF .75" UNLESS NOTED OTHERWISE.
- 10. INSTALL ALL VOICE-DATA OUTLETS WITHIN 6" OF POWER.
- 11. PROVIDE SEISMIC WIRES SECURED TO STRUCTURE FOR ALL SPEAKER LOCATIONS.

○ SHEET KEYNOTES

- 1 PROVIDE 1" CONDUIT TO ATTIC SPACE CLOSEST TO SCHOOL FOR ANTENNA LINK TO SCHOOL. ANTENNA EQUIPMENT AT BOTH ENDS OF LINK (SEMINARY AND SCHOOL) TO BE FURNISHED AND INSTALLED BY SEMINARY AV INSTALLER.
- 2 SPEAKER CABLE BY DIVISION 27. CONDUIT NOT REQUIRED IN LAY-IN CEILINGS.
- 3 PROVIDE 3 EACH, 2" CONDUITS TO ACCESSIBLE FACULTY OFFICE 111 CEILING SPACE.
- 4 PROVIDE CONDUIT TO TELCO PROVIDER. VERIFY CONDUIT SIZE WITH PROVIDER.
- 5 PROVIDE CONDUIT TO CABLE PROVIDER. VERIFY CONDUIT SIZE WITH PROVIDER.
- 6 MOUNT NEXT TO 'BMG' BUILDING MANAGEMENT GATEWAY NETWORK INTERFACE. SEE SHEET ME101.
- 7 INSTALL DEVICES ADJACENT TO POWER OUTLET ABOVE COUNTERTOP HEIGHT.



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Revision Schedule

Description Date

1 Bid Documents 8 Nov 2022

ea architecture

11576 South State Street, Suite 103b
Draper, Utah 84020

Project for:

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

> 1975 South (Wilson Lane) West Haven, Utah

, veet naven, e

Project Number:

Property Number: 501-8962

April 14, 2023

AV Rough-in Plan

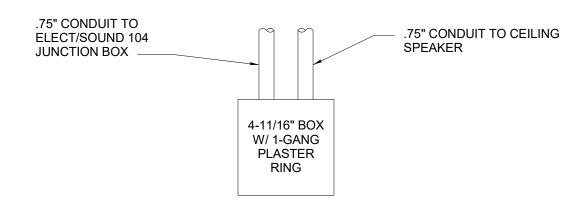
ET101

W N E

AV ROUGH-IN PLAN

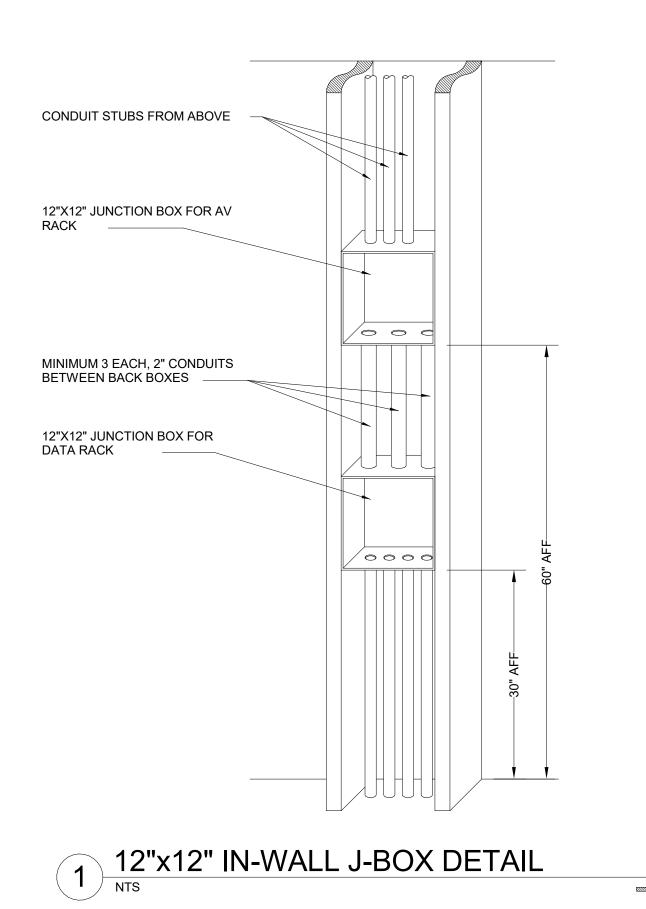
SCALE: 1/4" = 1'-0"

ELECTRICAL EQUIPMENT LIST SYM DESCRIPTION QTY NOTES OFP SEE DETAILS 1/TA602 AND 2/ET501 2-1/8" DEEP, 4-11/16" SQUARE BOX W/ 5/8" DEEP, SINGLE GANG PLASTER RING MOUNTED AT ELECTRICAL SWITCH HEIGHT 12"X12"X4" JUNCTION BOXES MOUNTED PER DETAIL 1/ET501 COORDINATE EXACT LOCATION W/ MILLWORK DRAWINGS OFP FURNISHED AND INSTALLED BY DIVISION 27 SPEAKER LOCATION, LAY-IN CEILING TILE INSTALLER OFP 2-1/8" DEEP, 4-11/16" SQUARE BOX W/ 5/8" DEEP, SINGLE GANG PLASTER RING MOUNTED AT ELECTRICAL SWITCH HEIGHT OFP EXTEND TO FINISHED FLOOR PLYWOOD BACKBOARD, .75", FIRE-TREATED, PAINTED WHITE, 2 EACH, 4'x8' SHEETS OFP DATA OUTLET SEE DETAIL 4/TT602 2-1/8" DEEP, 4-11/16" SQUARE BOX W/ 5/8" DEEP, SINGLE GANG PLASTER RING MOUNTED AT ELECTRICAL OUTLET HEIGHT OR AS NOTED, (X) = # △X | ELECTRICAL OUTLETTIES... OF DATA JACKS IF MORE THAN 1 OFP DATA OUTLET FOR WIRELESS ACCESS POINT, SEE 2-1/8" DEEP, 4-11/16" SQUARE BOX W/ 5/8" DEEP, SINGLE GANG PLASTER RING MOUNTED FLUSH IN DETAILS 4/TT602 AND 5/TT602 WAP FINISHED CEILING CONDUIT WITH NYLON PULL CORD, SIZED AS A/R NOTED OR .75", WHICHEVER IS GREATER SPEAKER CABLE, INSTALL IN CONDUIT IN WALLS CONDUIT INSTALLED BY ELECTRICAL, CABLE AND INACCESSIBLE CEILING. (X) = NUMBER OF FURNISHED AND INSTALLED BY DIVISION 27, SEE CABLES, IF MORE THAN ONE SHEET TT601 MANUFACTURER'S NAMES AND TELEPHONE NUMBERS ARE LISTED IN THE SPECIFICATIONS A/R = AS REQUIRED, OFP = OBTAIN FROM PLANS .75" CONDUIT TO ELECT/SOUND 104 .75" CONDUIT TO CEILING SPEAKER JUNCTION BOX -4-11/16" BOX



2 VOLUME CONTROL DETAIL

NTS





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Revision Schedule

Description

Bid Documents

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Date

8 Nov 2022

THE CHURCH OF

JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for Mountain View Jr Seminary

1975 South (Wilson Lane) West Haven, Utah

Project Number: 501-8962 Property Number:

April 14, 2023 AV Rough-in Details

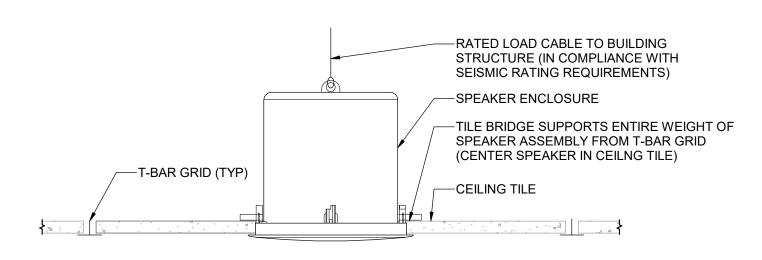
ET501

2222

AUDIO-VIDEO SYSTEM EQUIPMENT LIST

/ \OL	TO VIDEO OTOTEWIE	X O II	IVILIA I LIOT
SYM	DESCRIPTION	QTY	ACCEPTABLE TYPES
	EQUIPMENT RACK, WALL MOUNTED, 12RU, AND DOOR	2	MIDDLE ATLANTIC DWR-12-22, PFD-12
Al	AUDIO INTERFACE, STEREO UNBALANCED TO MONO BALANCED, PASSIVE	A/R	EXTRON ASA141 RADIO DESIGN LABS TX-J2
MA	MIXER AMPLIFIER, 120 WATT	OFP	TOA A-712 ATLAS SOUND AA120
	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 15 AMP, IN LECTERN	OFP	TRIPP-LITE ISOBAR 6 ULTRA, OR APPROVED EQUAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP, RACK MOUNTED	OFP	TRIPP-LITE IBAR 12-20 ULTRA, OR APPROVED EQUAL
S	SPEAKER, 4" W/ GRILLE, ENCLOSURE, AND TILE BRIDGE, LAY-IN CEILING TILE	OFP	ATLAS SOUND FAP42T COMMUNITY C4
V	VOLUME CONTROL	OFP	EMTECH MSC-V35 ATLAS SOUND AT35D LABEL PER DETAIL
	NYLON DECORA COVER PLATE, 1-GANG		HUBBELL OR LEVITON
BGMI	BACKGROUND MUSIC INPUT PLATE	OFP	RCI MI120-PW
BSC	BELL SYSTEM CONTROLLER	OFP	ALGO 8301 PAGING ADAPTER
	LINE TRANSFORMER	A/R	RADIO DESIGN LABS TX-1A PRO CO LOT-1
PR	SCHOOL INTERCOM TRANSMITTER, ASSEMBLY TRANSMITTER	1	COMTEK 3ST 75-216
	ANTENNA	1	50 OHM, 216MHz, 0Db GAIN YAGI-UDA ANTENNA W/ BNC CONNECTION
	MOUNT, W/RUBBER PAS AND BALLAST	1	EZ UP EZ-NP-60-200
	50 OHM EXTERIOR CABLE AND CONNECTORS	1	TIMES LMR-600 W/ APPROPRIATE CONNECTORS
	RECEIVER, WITH MOUNT AND PHANTOM POWER CABLE	1	COMTEK ?R-R16 OPTION 7 RECIEVER W/ MBS-216 AND CB-86 XLM
	ANTENNA AND STANDARD CABLE		PRA-216 PHASE RIGHT ANTENNA
			NOTES:
			 MOUNT TRANSMIT ANTENNA ON PUBLIC SCHOOL ROOF, IN LINE OF SIGHT OF SEMINARY BUILDING. USE AN EXISTING ROOF PENETRATION.
			2. MOUNT RECEIVE ANTENNA IN SEMINARY ATTIC AT LOCATION CLOSEST TO TRANSMIT ANTENNA.
			3. VERTICALLY POLARIZE BOTH ANTENNAS.
	MANUFACTURER'S NAMES AND TELEPHONE NUMBER	S ARF LIS	TED IN THE SPECIFICATIONS

MANUFACTURER'S NAMES AND TELEPHONE NUMBERS ARE LISTED IN THE SPECIFICATIONS A/R = AS REQUIRED, OFP = OBTAIN FROM PLANS OFI = OWNER FURNISHED AND INSTALLED, OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED



LAY-IN CEILING TILE

CEILING SPEAKER INSTALLATION DETAIL

GENERAL PROJECT NOTES

- 1. NO CHANGES SHALL BE MADE WITHOUT THE PROJECT AUDIO-VISUAL/ACOUSTICAL CONSULTANT'S WRITTEN CONSENT.
- 2. REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS USED IF NOT SPECIFIED IN EQUIPMENT LIST.
- 3. SEE 'ET' SHEETS FOR DEVICE LOCATIONS AND COORDINATION.
- 4. SEE 'TT' SHEETS FOR ADDITIONAL COORDINATION.
- 5. PROVIDE ALL CONNECTORS, CABLES, POWER SUPPLIES, RACK MOUNT KITS, ETC. AS NECESSARY FOR A COMPLETE SYSTEM.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN". "NOTED". SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED". WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS. THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

	Α	 AUDIO
	A/R ADJ	AS REQUIRED
	С	 ADJACENT
	CAT	 CONDUIT
	CFI	 CATEGORY
	CV	 CONTRACTOR FURNISHED AND INSTALLED
	DVI	 COMPOSITE VIDEO
	DVD	 DIGITAL VISUAL INTERFACE
	Е	 DIGITAL VERSATILE DISK
	EA	 ENHANCED
	EX	
	GR	 EXISTING
	HDMI	
	I.O.F.	 HIGH-DEFINITION DIGITAL MEDIA INTERFACE
	L	 INSTALLATION OF OWNER FURNISHED EQUIPMENT
	MIC	 LEFT AUDIO CHANNEL, LINE LEVEL
	N/A	 MIC LEVEL AUDIO
	N.I.C.	 NOT APPLICABLE
	OFCI	 NOT IN CONTRACT
	OFI	OWNER FURNISHED AND CONTRACTOR INSTALLED
	OFP	 OWNER FURNISHED AND INSTALLED
	QTY	 OBTAIN FROM PLANS
	OP	 QUANTITY
	POE	 OWNER PROVIDED
	R	 POWER OVER ETHERNET
	RGBHV	 RIGHT AUDIO CHANNEL, LINE LEVEL
	RMK	 COMPUTER VIDEO
	RU	 RACK MOUNT KIT
	TYP	 RACK UNIT, 1.75"
	V	 TYPICAL
	VGA	 VOLT
	VHS	 VIDEO GRAPHICS ARRAY
	W/	 VIDEO HOME SYSTEM
- 1	VC	 \A/IT!

---- S-VIDEO

---- COMPONENT VIDEO



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Revision Schedule Date Description

> 8 Nov 2022

Bid Documents

ea architecture 11576 South State Street, Suite 103b Draper, Utah 84020

Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for

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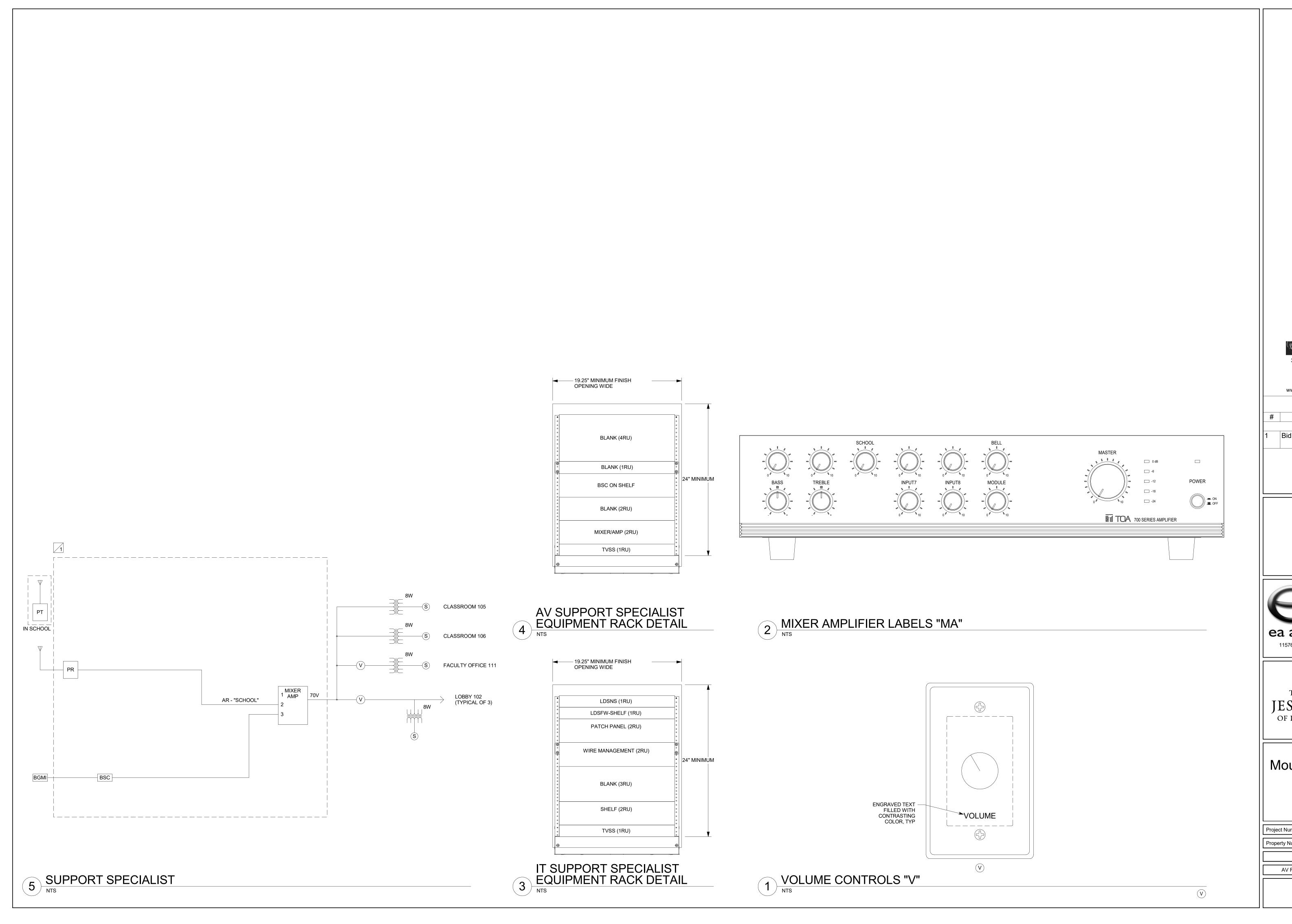
> 1975 South (Wilson Lane) West Haven, Utah

Project Number:

Property Number: 501-8962 April 14, 2023

AV Rough-in Diagrams and Details

TA601



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Revision Schedule

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1 Bid Documents 8 Nov

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Project for:

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> 1975 South (Wilson Lane) West Haven, Utah

roject Number:

Property Number: 501-8962

April 14, 2023

AV Rough-in Diagrams and Details

TA602

VOICE-DATA SYSTEM EQUIPMENT/CABLE LIST

REQUIRE	OWING IS A PARTIAL LIST OF MATERIALS FOR THE DATA/PHONE. MENTS. VERIFY ALL PART NUMBERS WITH MANUFACTURER'S CA ANCIES PRIOR TO BIDDING. FURNISH MISCELLANEOUS HARDWA	ATALOG NUMBERS AND NOTIFY CONSULTANT OF					
SYM	DESCRIPTION	ACCEPTABLE TYPES					
TELCO DEMARC	TELECOMMUNICATIONS PROVIDER DEMARCATION POINT	FURNISHED AND INSTALLED BY PROVIDER					
ISP DEMARC	INTERNET SERVICE PROVIDER DEMARCATION POINT	FURNISHED AND INSTALLED BY PROVIDER					
DPP	PATCH PANEL, DATA, 48-PORT W/ CAT 6 INSERT, BLUE (QUANTITIES OF PORTS AS REQUIRED +25%)	SEE SPECIFICATION 271501					
TVSS	SURGE SUPPRESSOR AND SWITCHER W/ UL LISTED PLUG STRIP	FURNISHED AND INSTALLED BY AV INSTALLER					
	UL LISTED POWER STRIP	6 OUTLET POWER STRIP OR EQUAL					
D(#)	STATION CABLE, DATA-CAT 6, DATA, (#) INDICATES NUMBER OF CABLES IF MORE THAN ONE	SEE SPECIFICATION 271501					
WAP	DATA OUTLET, WIRELESS ACCESS POINT SINGLE GANG BEZEL	SEE SPECIFICATION 271501					
	BEZEL INSERTS	SEE SPECIFICATION 271501					
	CAT 6 JACK-DATA (1)	SEE SPECIFICATION 271501					
	DATA OUTLET SINGLE GANG BEZEL	SEE SPECIFICATION 271501					
$\triangle_{\mathbf{X}}$	BEZEL INSERTS	SEE SPECIFICATION 271501					
	CAT 6 JACK-DATA (X) INDICATED # OF JACKS, IF MORE THAN ONE	SEE SPECIFICATION 271501					
	COPPER CAT 6 PATCH CABLES (1 DROP +25%)	SEE SPECIFICATION 271501					
	CAT 6 J-HOOKS	CADDY CAT32Z34					
HWM	HORIZONTAL WIRE MANAGER HORIZONTAL WIRE MANAGER SHALL NOT HAVE A DEPTH OF MORE THAN 3"	SEE SPECIFICATION 271501					
NS	NETWORK SWITCH, OWNER STANDARD (IEA-IS FOR INTERNET ENABLED APPLIANCES) CONNECT NETWORK DEVICES REQUIRING 'POE' TO 'POE' PORTS ON SWITCH	OWNER FURNISHED-CONTRACTOR INSTALLED					
	2 RACK UNIT SHELF FOR 'POE' SWITCH	MIDDLE ATLANTIC USM-11.5					
FW	INTERNET FIREWALL, OWNER STANDARD	OWNER FURNISHED-CONTRACTOR INSTALLED					
	2 RACK UNIT SHELF	MIDDLE ATLANTIC USM-11.5					
ISP MODEM	INTERNET SERVICE MODEM	OWNER FURNISHED-CONTRACTOR INSTALLED					
110 BLOCK	110 PUNCH DOWN BLOCK, CAT6	SEE SPECIFICATIONS 271501					
WAP	WIRELESS ACCESS POINT. OWNER STANDARD. INSTALL AT EACH 'WAP' LOCATION SHOWN ON ET101.	OWNER FURNISHED-CONTRACTOR INSTALLED					

NOTE: ALL PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR

AUDIO-VIDEO CABLE EQUIPMENT LIST

SYM	DESCRIPTION	QTY	ACCEPTABLE TYPES
L(X)	LINE LEVEL CABLE, (X) INDICATES NUMBER OF CABLES, IF MORE THAN ONE	A/R	BELDEN 9451 WEST PENN 454 LIBERTY 22-1P-EZ OR AS APPROVED BY CONSULTANT
S(X)	SPEAKER CABLE, (X) INDICATES NUMBER OF CABLES, IF MORE THAN ONE	A/R	BELDEN 8471 WEST PENN 225 LIBERTY 16-2C-GRY OR AS APPROVED BY CONSULTANT

MANUFACTURER'S NAMES AND TELEPHONE NUMBERS ARE LISTED IN THE SPECIFICATIONS A/R = AS REQUIRED

GENERAL PROJECT NOTES

- 2. THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL CABLING AND EQUIPMENT TO THE CONSULTANT APPROVAL.
- 3. COIL 5 FEET OF EXTRA VOICE-DATA CABLE AT THE TECHNOLOGY

- 6. ALL VOICE-DATA OUTLETS ON WALLS SHALL BE MOUNTED WITHIN
- 7. REFER TO SHEET ET101 FOR VOICE-DATA JACK LOCATIONS, AND
- 8. EQUIPMENT RACK TO BE INSTALLED BY AV INSTALLER.
- ACCORDING TO DIVISION 27 1501.
- 10. INSTALL OWNER FURNISHED LDS NETWORK EQUIPMENT SHOWN. AS PART OF INSTALLATION SET UP AND CONFIGURE DEVICES IN ACCORDANCE WITH LDS REQUIREMENTS. COORDINATE WITH LOCAL FACILITIES MANAGER.
- 11. COORDINATE WITH FACILITIES MANAGER AND PROJECT MANAGER WELL IN ADVANCE OF PROJECT COMPLETION TO PROVIDES INTERNET SERVICE TO BUILDING PRIOR TO FINAL
- 12. INSTALL A DATA PATCH CABLE TO NS FOR ALL DATA LOCATIONS SHOWN ON PLANS.
- 13. FURNISH AND INSTALL ALL AUDIO-VIDEO CABLE SHOWN. PROVIDE
- 14. INSTALL PATCH IN AND SET-UP OWNER FURNISHED WIRELESS ACCESS POINTS.
- 15. SEE 'TA' AND 'ET' SHEETS FOR DEVICE LOCATIONS AND ADDITIONAL COORDINATION.

- 1. LABEL ALL CABLE REGARDLESS OF LENGTH.
- ROOM AND 18" AT THE OUTLET FOR EACH CABLE RUN.
- 4. USE CADDY CLIPS FOR ALL CABLE OUTSIDE OF CONDUIT.
- 5. ALL CABLE AND UTP TO TERMINATE ON BOTH ENDS.
- 6" OF A POWER OUTLET. IF CONTRADICTIONS ARISE ON PLANS, NOTIFY ENGINEER.
- SHEET TA601 FOR ROUTING OF AV CABLE.
- 9. ALL VOICE-DATA CABLING AND EQUIPMENT SHALL BE INSTALLED
- ENSURE INSTALLATION OF ALL OWNER FURNISHED EQUIPMENT IS INSTALLED AND SET UP PROPERLY. IN ADDITION, ENSURE OWNER INSTALLATION OF AV AND VOICE DATA EQUIPMENT.
- 3 FEET EXTRA CABLE AT OUTLET END AND 15' EXTRA CABLE AT EQUIPMENT RACK. COIL AND LABEL.

SPECTRUM ENGINEERS

324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com

Revision Schedule Date Description

Bid Documents 8 Nov 2022



Project for:

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

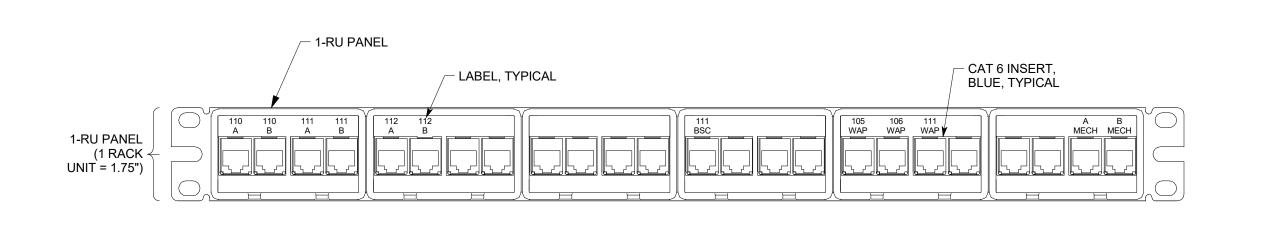
> 1975 South (Wilson Lane) West Haven, Utah

Project Number:

Property Number: 501-8962

> April 14, 2023 AV Systems Data Schedules

TT601



FINISHED CEILING

WIRELESS ACCESS POINT (WAP)

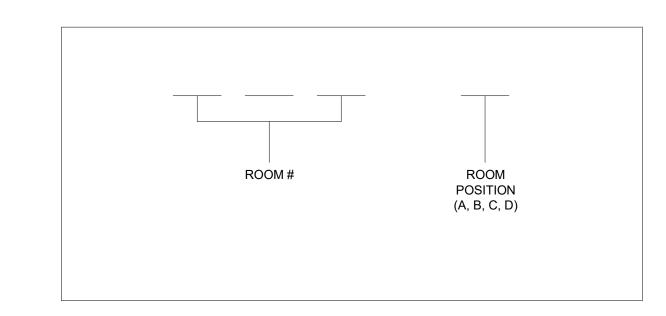
NOTE:

NUMBER SHOWN MATCHES DESIGN ROOM NUMBERS. FINAL LABELING FOR PATCH PANEL AND OUTLETS SHALL MATCH SIGNAGE POSTED FOR ROOMS.

1 PATCH PANEL DETAIL, 24-PORT, TYPICAL

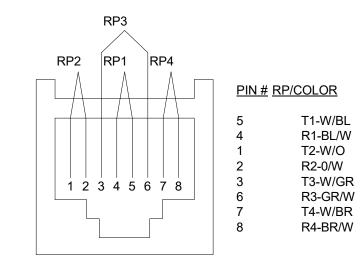
WIRELESS ACCESS POINT (WAP)

√WAP

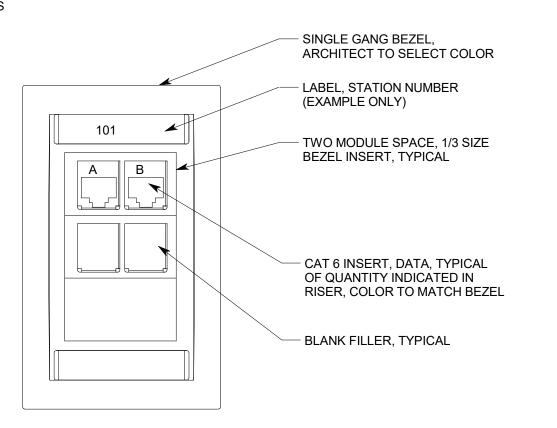


2 CABLE LABEL DETAIL

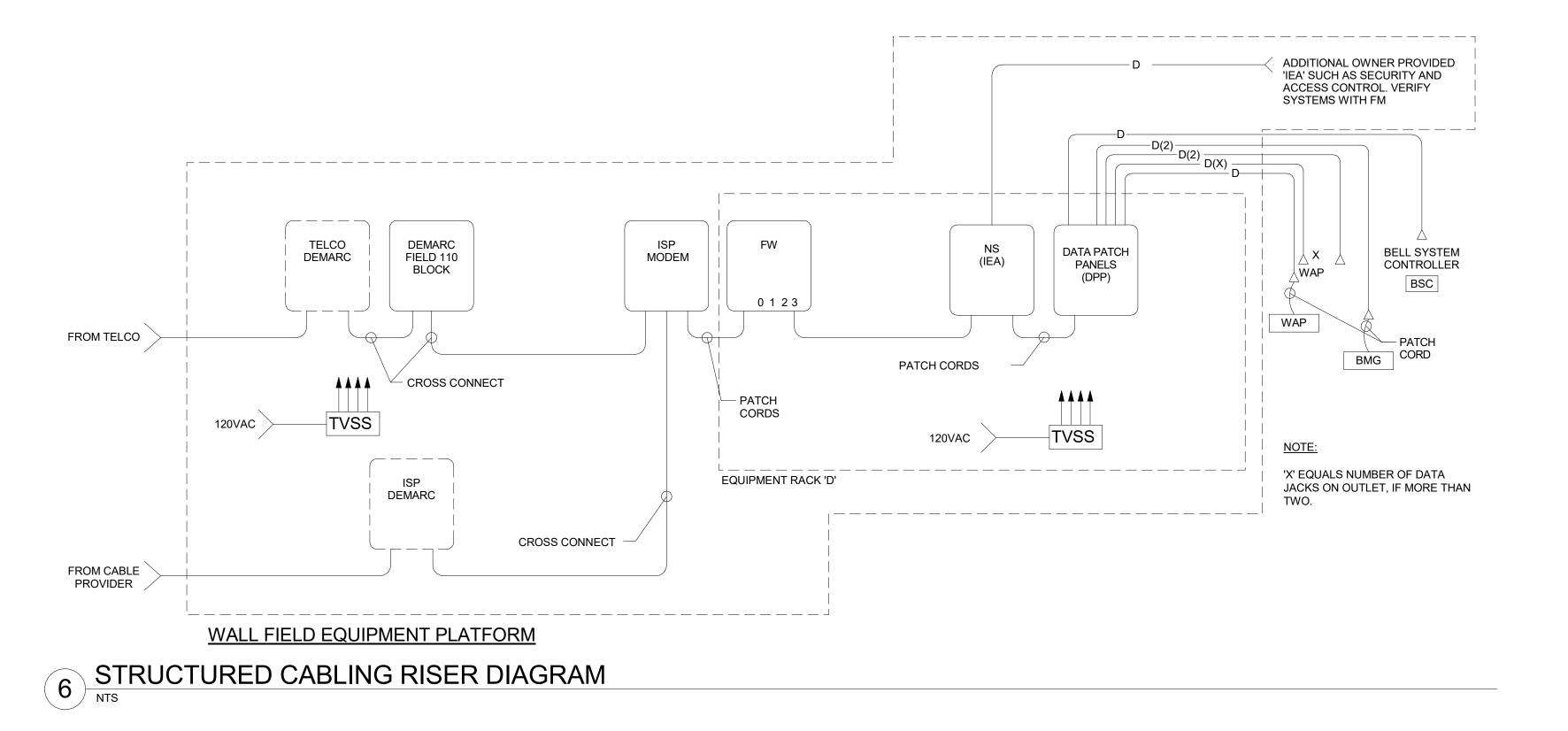
NTS











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Revision Schedule

Description Date

1 Bid Documents 8 Nov 2022

ea architecture

11576 South State Street, Suite 103b

Project for:

Draper, Utah 84020

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

A New Building for

Mountain View Jr Seminary

> 1975 South (Wilson Lane) West Haven, Utah

Project Number: 22-59

Property Number: 501-8962

April 14, 2023

AV Systems Riser Diagrams

TT602