



PHOTO: SOUTH SIDE LOW ROOF AREAS

13/A203



PHOTO: SOUTH SIDE LOW ROOF AREAS

14/A203



PHOTO: SOUTH SIDE LOW ROOF AREAS

35A203



PHOTO: NORTH LOW ROOF RAILING

16/A203



PHOTO: EAST END

17/A203



PHOTO: SOUTH SIDE

18/A203

KEYED EXTERIOR PHOTOGRAPH NOTES

NOTES APPLY TO SHEETS A201 - A204
KEYED NOTES ARE NOT ADDED TO EVERY ITEM IN EVERY PHOTOGRAPH, PRIMARILY AT THE CLOSER PART OF THE BUILDING AND SITE IN WHOLE BUILDING PHOTOGRAPHS.

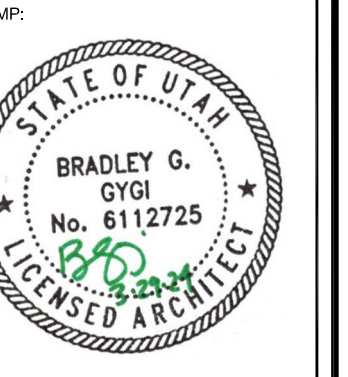
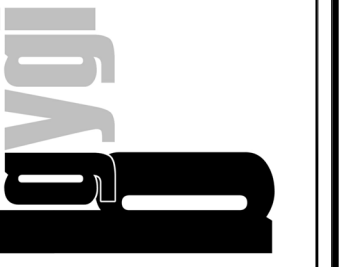
EXISTING WORK NOTES:

- ⚠️ EXISTING BOILER STACK / CHIMNEY. SEE STRUCTURAL DRAWINGS.
- ⚠️ EXISTING VENT, FLUE OR OTHER PENETRATION TO REMAIN. PRIOR TO REMOVAL OF ROOFING MATERIALS, INSTALL TEMPORARY METAL STRAP ON ALL EXISTING FLUES AND VENTS TO SECURE IN PLACE DURING CONSTRUCTION.
- ⚠️ EXISTING METAL PARAPET BRACING. SEE STRUCTURAL DRAWINGS.
- ⚠️ EXISTING METAL RAILING(S) ON ROOF. PROTECT IN PLACE OR REMOVE AND REINSTALL TO ACCOMMODATE ROOFING WORK.
- ⚠️ EXISTING METAL LADDER. PROTECT IN PLACE OR REMOVE AND REINSTALL TO ACCOMMODATE ROOFING WORK.
- ⚠️ EXISTING EGRESS STAIR.
- ⚠️ COORDINATE WITH STRUCTURAL DRAWINGS FOR PLYWOOD SHEATHING. REMOVE EXISTING SHEATHING TO PROVIDE ACCESS FOR WORK BELOW ROOF DECK. TYPICAL ALL AREAS.

DEMOLITION AND NEW WORK NOTES:

- 1 REMOVE EXISTING AND INSTALL NEW ASPHALT SHINGLES WITH SECONDARY UNDERLAYMENT AT ENTIRE ROOF AREA. COORDINATE WITH STRUCTURAL DRAWINGS FOR PLYWOOD SHEATHING.
- 2 REMOVE EXISTING AND INSTALL NEW METAL ROOFING SYSTEM WITH SECONDARY UNDERLAYMENT AND NEW EDGE METAL AT STAIR AREA. NEW ROOF-TO-WALL FLASHINGS OVER EXISTING EIFS AT SIDES.
- 3 REMOVE EXISTING BUILT UP ROOFING AND INSTALL NEW FULLY ADHERED PVC ROOFING SYSTEM. SEE SHEET A121 FOR TAPERED INSULATION, COVER BOARDS, ETC.
- 4 REMOVE EXISTING AND INSTALL NEW EDGE METAL. PAINT EXISTING STONE AND/OR WOOD TRIM BELOW. SEE C, D/A122. SEE C, D/A122.
- 5 REMOVE EXISTING SHEET METAL AND INSTALL NEW PVC COATED EDGE METAL / GRAVEL STOP WITH NEW METAL FASCIA, AND TRIM.
- 6 REMOVE EXISTING AND INSTALL NEW METAL PARAPET CAP, WITH ROOF MEMBRANE AND BASE FLASHING AT ROOF SIDE. PAINT EXISTING STONE AND/OR WOOD TRIM BELOW.
- 7 REMOVE EXISTING AND INSTALL NEW METAL CAP AND WALL COUNTER FLASHING AT LOWER CORNICE. PAINT EXISTING CROWN MOLDING, DENTILS, AND TRIM BELOW.
- 8 REMOVE EXISTING AND INSTALL NEW WALL FLASHINGS AT LOWER ROOF TO WALL CONNECTION (SHINGLES WITH METAL FLASHINGS AT LOWER ROOF).
- 9 REMOVE EXISTING AND INSTALL NEW WALL FLASHINGS AT LOWER ROOF TO WALL CONNECTION (LOW SLOPE ROOFING AT LOWER ROOF).
- 10 REMOVE EXISTING AND INSTALL NEW METAL SCUPPER FLASHINGS AT EXISTING SCUPPER OPENING.
- 11 NEW 12" WIDE SCUPPER OPENING IN EXISTING MASONRY WALL. SEE C/A126 FOR NEW FLASHING.
- 12 NEW PIPE FLASHINGS AT EXISTING METAL PARAPET BRACES. DISCONNECT AND RECONNECT BRACES TO INSTALL FLASHINGS.
- 13 REMOVE EXISTING SKYLIGHT AND CURB, AND FILL IN OPENING WITH FRAMING AND ROOF SHEATHING. MAINTAIN EXISTING CHASE BELOW AT INTERIOR OF BUILDING FOR ELECTRICAL, HVAC AND OTHER WORK.
- 14 REMOVE EXISTING AND INSTALL NEW ROOF DRAIN RD-1. SEE DETAIL A/A127 AND PLUMBING SPECIFICATIONS. CONNECT TO EXISTING ROOF DRAIN PIPING BELOW DECK.
- 15 NEW FLASHING AT EXISTING OR NEW VENT OR FLUE PIPING. EXTEND TO BE 16" MINIMUM ABOVE ROOF. PAINT.
- 16 REMOVE EXISTING AND REINSTALL SALVAGED EXISTING HVAC PENTHOUSE ON NEW CURB. CURB TO BE 16" MINIMUM ABOVE ADJACENT ROOF LEVEL. SEE F/A125 AND MECHANICAL DRAWINGS.
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- 19 REMOVE AND REINSTALL EXISTING OR INSTALL NEW HVAC EQUIPMENT ON NEW CURB. SEE MECHANICAL DRAWINGS. CONNECT TO POWER PER ELECTRICAL DRAWINGS. NEW CURB G/A125. SEE A, E, F, H/A126 AND B, C/A127 FOR REFRIGERANT PIPING, COVERS, ELECTRICAL AND SUPPORTS.
- 20 REMOVE EXISTING AND INSTALL NEW HVAC DUCT WORK AND SUPPORTS. SEE MECHANICAL DRAWINGS.
- 21 REINSTALL, PROTECT IN PLACE, OR INSTALL NEW ELECTRICAL CONDUITS, WIRING, AND FITTINGS. SEE ELECTRICAL DRAWINGS.
- 22 ROOF ELEVATION CHANGE. SEE E/A125.

bradley gygi architect
 & associates, pllc



LOGAN 1.2
 LOGAN UT CACHE WEST STAKE
 89 SOUTH 200 WEST
 LOGAN, UT

PROJECT FOR:
 THE CHURCH OF
 JESUS CHRIST
 OF LATTER-DAY SAINTS

PROJECT NUMBER:
 501735120070101
 DATE:
 15 MAR 2024
 PROPERTY NUMBER:
 5017351

DRAWN BY:
 BGG
 CHECKED:
 BGG

SHEET TITLE:
 EXTERIOR
 PHOTOGRAPHS
 AND NOTES

SHEET:
 A203



PHOTO: SOUTH SIDE

19/A204



PHOTO: SOUTH SIDE, WEST END

20/A204



PHOTO: CULTURAL CENTER WEST SIDE

21/A204



PHOTO: ELECTRICAL BOX

22/A204



PHOTO: SCUPPER AND METAL CAPS

23/A204



PHOTO: PARAPET CAPS

24/A204

KEYED EXTERIOR PHOTOGRAPH NOTES

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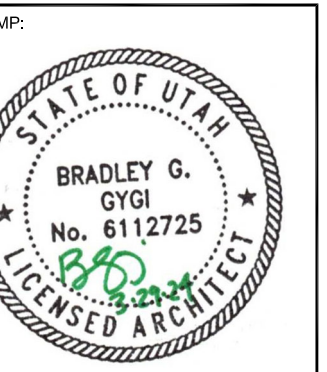
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PROJECT FOR:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
 LOGAN UT CACHE WEST STAKE
 88 SOUTH 200 WEST
 LOGAN, UT

PROJECT NUMBER:
501735120070101
 DATE:
15 MAR 2024
 PROPERTY NUMBER:
5017351

DRAWN BY: BGG
 CHECKED: BGG

SHEET TITLE:
EXTERIOR PHOTOGRAPHS AND NOTES

SHEET:
A204

SPECIAL INSPECTION SCHEDULE 1,2				
ESTABLISHED PER 2021 IBC SECTION 110 AND CHAPTER 17				
ITEM	CONTINUOUS ³	PERIODIC ³	REFERENCE	COMMENTS
CONCRETE CONSTRUCTION (IBC 1705.3)				
REINFORCING STEEL PLACEMENT		●	SEE IBC TABLE 1705.3 - REF. NOTE C1	C.1. SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET.
WELDING OF REINFORCING STEEL	●	●	REFERENCE NOTE C2	C.2. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.
ANCHORS CAST IN CONCRETE	●			
VERIFYING REQUIRED DESIGN MIX		●		C.3. PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST.
CONCRETE PLACEMENT / SAMPLING	●		REFERENCE NOTE C3	C.4. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
CURING TEMPERATURE / TECHNIQUES		●		C.5. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT, AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT AND ACI 318: 17.8.2.4.
CONCRETE AND SHOTCRETE PLACEMENT / APPLICATION TECHNIQUES	●			C.6. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F.
PRESTRESSED CONCRETE				
APPLICATION OF PRESTRESSING FORCES	●			C.7. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.
GROUTING BONDED TENDONS	●			C.8. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR FORMWORK SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.
ERECTION OF PRECAST MEMBERS		●		
PRECAST CONCRETE DIAPHRAGM CONNECTIONS			REFERENCE NOTE C6 AND C7	
INSTALLATION OF THE EMBEDDED PARTS	●			
CONTINUITY OF REINFORCEMENT ACROSS JOINTS	●			
CONNECTION COMPLETION IN THE FIELD				
VERIFICATION OF IN-SITU STRENGTH		●	REFERENCE NOTE C4	
POST-INSTALLED ANCHOR PLACEMENT	●	●	REFERENCE NOTE C5	
FORMWORK		●	REFERENCE NOTE C8	
WOOD (IBC 1705.5 & 1705.12.1 & 1705.13.2)				
HIGH LOAD DIAPHRAGMS (ROOF / FLOOR)		●	REFERENCE NOTE W1	W.1. WOOD STRUCTURAL PANEL SHEATHING SHALL BE INSPECTED TO ASCERTAIN THAT GRADE AND THICKNESS ARE IN COMPLIANCE WITH APPROVED BUILDING PLANS. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES, AND SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS SHALL ALSO BE INSPECTED AND VERIFIED FOR COMPLIANCE WITH APPROVED BUILDING PLANS.
SITE-BUILT ASSEMBLIES		●		
SHEAR WALL & DIAPHRAGM NAILING		●	REFERENCE NOTE W2	W.2. SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE LATERAL FORCE RESISTING SYSTEM, WHERE THE LATERAL RESISTANCE IS PROVIDED BY STRUCTURAL SHEATHING AND THE SPECIFIED FASTENER SPACING AT PANEL EDGES IS MORE THAN 4" o.c.
DRAG STRUTS		●		
BRACES & SHEAR PANELS		●		
HOLD-DOWNS		●		
GLUING OPERATIONS	●			
METAL-PLATE-CONNECTED WOOD TRUSSES WITH HEIGHTS GREATER THAN OR EQUAL TO 60"		●	REFERENCE NOTE W2	W.3. SPECIAL INSPECTION SHALL BE PERFORMED TO VERIFY THAT THE INSTALLATION OF TEMPORARY AND PERMANENT RESTRAINT/BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.
METAL-PLATE-CONNECTED WOOD TRUSSES WITH SPANS GREATER THAN OR EQUAL TO 60 FEET		●	REFERENCE NOTE W3	

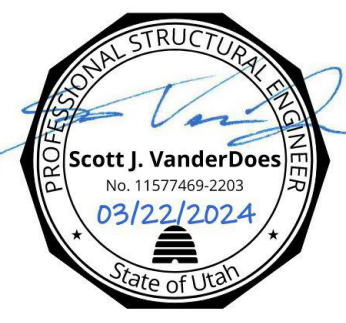
GENERAL SPECIAL INSPECTION NOTES :

- THE ITEMS MARKED WITH A "●" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
- ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.
- CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202)

LEGEND OF SYMBOLS AND ABBREVIATIONS	
AB = ANCHOR BOLT	FOOTING MARK
ABV = ABOVE	TOP OF FOOTING ELEVATION
ARCH = ARCHITECT	SECTION MARK
BLW = BELOW	SHEET NUMBER
BN = BOUNDARY NAILING	TOP OF FOUNDATION WALL OR COLUMN PIER ELEVATION
BS = BOUNDARY SCREW	CONCRETE MASONRY UNIT
BRB = BUCKLING RESTRAINED BRACE	COLUMN
BRBF = BUCKLING RESTRAINED BRACE FRAME	SHEAR WALL - SEE SCHEDULE
CJP = COMPLETE JOINT PENETRATION	MIN. LENGTH OF SHEAR WALL
CL = CENTERLINE	FOOTING STEP
CNU = CONCRETE MASONRY UNIT	DIAMETER
COL = COLUMN	DEFORMED BAR ANCHOR
CONC = CONCRETE	DECK BEARING ELEVATION
CP = CONCRETE PIER	ELEVATION
DC = DEMAND CRITICAL	EDGE NAILING
DIA / Ø = DIAMETER	EDGE OF DECK
DBA = DEFORMED BAR ANCHOR	FOUNDATION
DBE = DECK BEARING ELEVATION	FOOTING
EN = ELEVATION	FINISHED FLOOR ELEVATION
EOD = EDGE OF DECK	CONCRETE GRADE BEAM
FDN = FOUNDATION	HEADED STUD ANCHOR
FTG = FOOTING	JOIST BEARING ELEVATION
FFE = FINISHED FLOOR ELEVATION	KICKER BRACE
GB = CONCRETE GRADE BEAM	MAXIMUM
HSA = HEADED STUD ANCHOR	MASONRY BEAM
JBE = JOIST BEARING ELEVATION	MASONRY COLUMN
KB = KICKER BRACE	MECHANICAL
MAX = MAXIMUM	MEZZANINE
MB = MASONRY BEAM	MINIMUM
MC = MASONRY COLUMN	MASONRY JAMB
MECH = MECHANICAL	MASONRY WALL
MEZZ = MEZZANINE	NEAR SIDE, FAR SIDE
MIN = MINIMUM	OR APPROVED EQUAL
MJ = MASONRY JAMB	OPPOSITE
MW = MASONRY WALL	POWDER ACTUATED FASTENER
NS, FS = NEAR SIDE, FAR SIDE	PLATE
OAE = OR APPROVED EQUAL	REINFORCING
OAP = OPPOSITE	REQUIRED
PAF = POWDER ACTUATED FASTENER	SIMILAR
PL = PLATE	STEEL STUD HEADER
REIN = REINFORCING	STEEL STUD JAMB
REQ'D = REQUIRED	STEEL STUD SILL
SIM = SIMILAR	STEEL STUD WALL
SSH = STEEL STUD HEADER	TOP OF BEAM ELEVATION
SSJ = STEEL STUD JAMB	TOP OF CONCRETE SLAB
SSS = STEEL STUD SILL	TOP OF FOOTING
SSW = STEEL STUD WALL	TOP OF GIRDER ELEVATION
TOB = TOP OF BEAM ELEVATION	TOP OF MASONRY
TOC = TOP OF CONCRETE SLAB	TOP OF STEEL ELEVATION
TOF = TOP OF FOOTING	TYPICAL
TOG = TOP OF GIRDER ELEVATION	UNLESS NOTED OTHERWISE
TOM = TOP OF MASONRY	
TOS = TOP OF STEEL ELEVATION	
TYP = TYPICAL	
UNO = UNLESS NOTED OTHERWISE	

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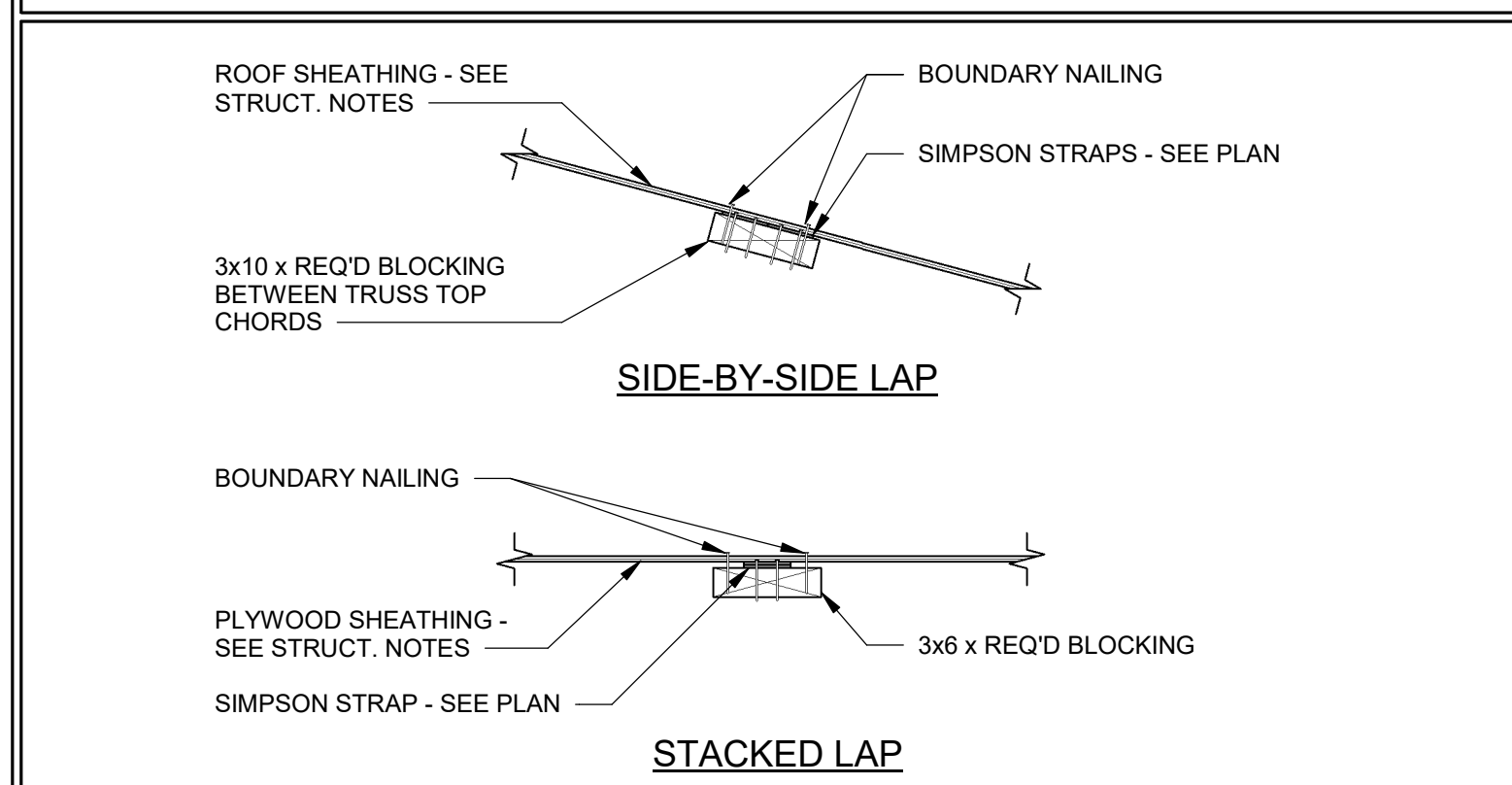
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PROJECT FOR:
 THE CHURCH OF
JESUS CHRIST
 OF LATTER-DAY SAINTS

PROJECT NUMBER:
 23756
 DATE:
 03/22/2024
 PROPERTY NUMBER:
 5017351
 DRAWN BY: _____ CHECKED: _____
 SHEET TITLE:
SCHEDULES
 SHEET:
S011

ITEM #	LAP SPLICE			COMMENTS
	MIN. # FASTENER PER SPLICE	MIN. LAP SPLICE LENGTH		
		STACKED	SIDE-BY-SIDE	
CMST 12	25-16d	22"	33"	
	30-10d	27"	39"	
CMST 14	18-16d	16"	26"	
	21-10d	19"	30"	
CMSTC 16	13-16d	11"	20"	
	15-10d	12"	20"	
CS 14	26-10d	--	15"	
	30-8d	--	16"	
CS 16	20-10d	--	11"	
	22-8d	--	13"	
CS 18	16-10d	--	9"	
	18-8d	--	11"	
CS 20	12-10d	--	6"	
	14-8d	--	9"	
CS 22	10-10d	--	7"	
	12-8d	--	6"	

- NOTES:
- NO STRAP MODIFICATION IS ALLOWED.
 - SPLICE MUST MEET BOTH THE MINIMUM NUMBER OF FASTENERS AND THE MINIMUM SPLICE LENGTH.
 - ALL NAIL SIZES LISTED ARE COMMON NAILS.
 - 10d COMMON MAY BE REPLACED BY 16d SINKERS. NO OTHER NAIL SUBSTITUTION IS ALLOWED FOR LAP SPLICES.
 - IF WOOD SPLITTING OCCURS, USE EVERY OTHER NAIL HOLE AND LENGTHEN SPLICE TO ACCOMMODATE THE REQUIRED NUMBER OF NAILS.
 - ALL STRAPS TO BE INSTALLED UNDER SHEATHING.
 - TWO OPTIONS EXIST FOR COIL STRAP LAPPING.
 - LAP ONE STRAP STACKED ON TOP OF THE OTHER STRAP.
 - INSTALL STRAPS SIDE BY SIDE - TO DO THIS A LARGER BLOCK MUST BE USED. THE BLOCK MUST BE ON SOLID PIECE.
 - STRAP TO BE INSTALLED TIGHT.

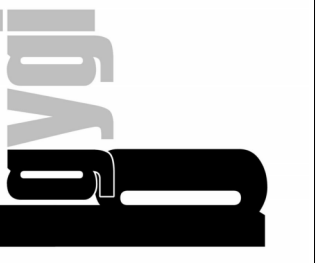


STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

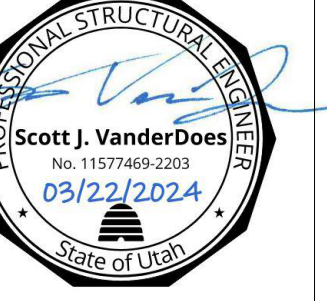
ESTABLISHED PER 2021 IBC SECTION 1705.2.1

Main inspection schedule table with columns for Inspection Tasks Prior to Welding, Fabricator Quality Control, Special Inspector Quality Assurance, Notes, Inspection Tasks Prior to Bolting, and Inspection Tasks After Bolting.

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LOGAN 1, 2
LOGAN UT CACHE WEST STAKE
880 SOUTH 200 WEST
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PROJECT FOR:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

Table with 4 columns and 10 rows for project details.

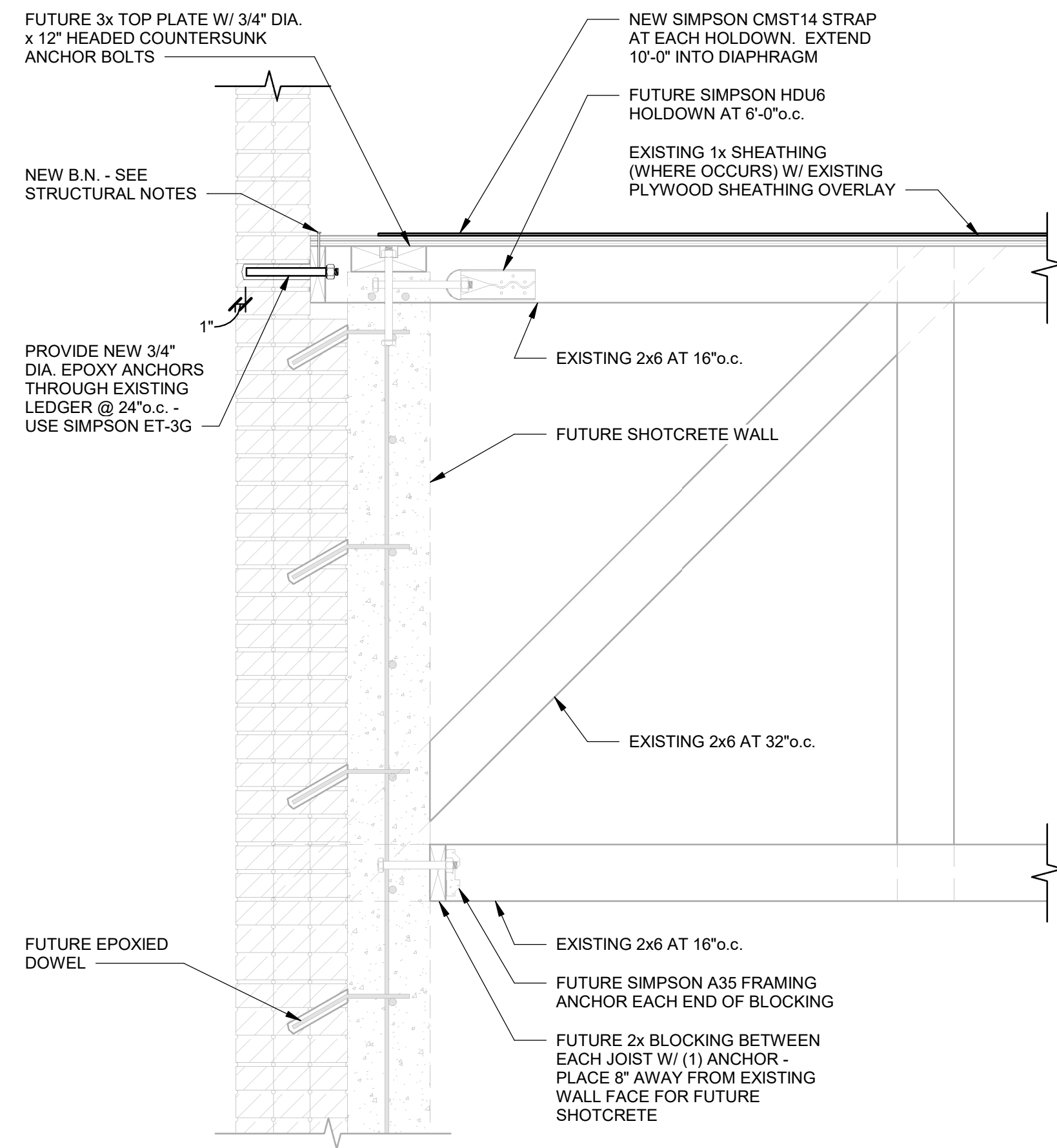
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DATE: 03/22/2024
PROPERTY NUMBER: 5017351

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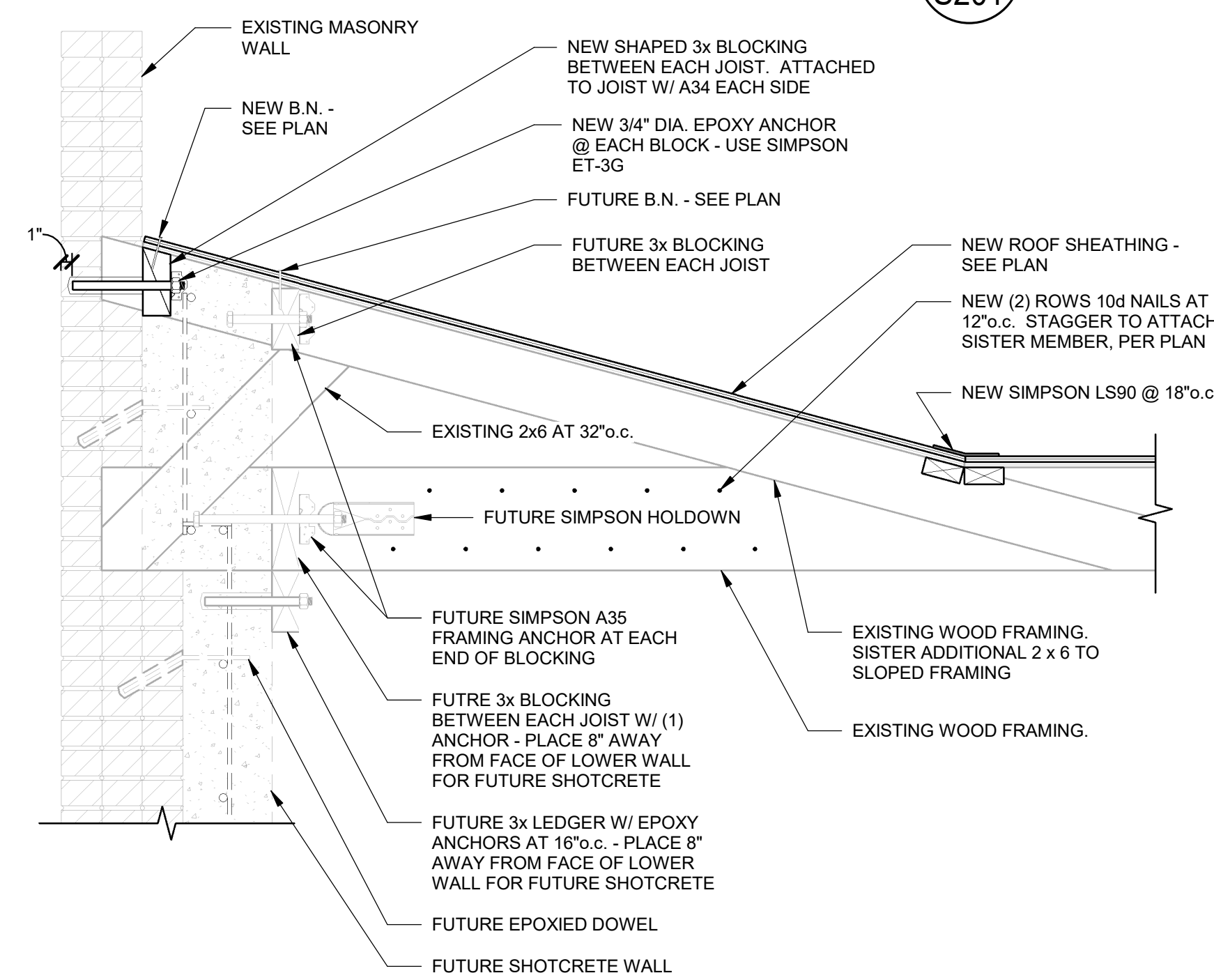
S012



DETAIL

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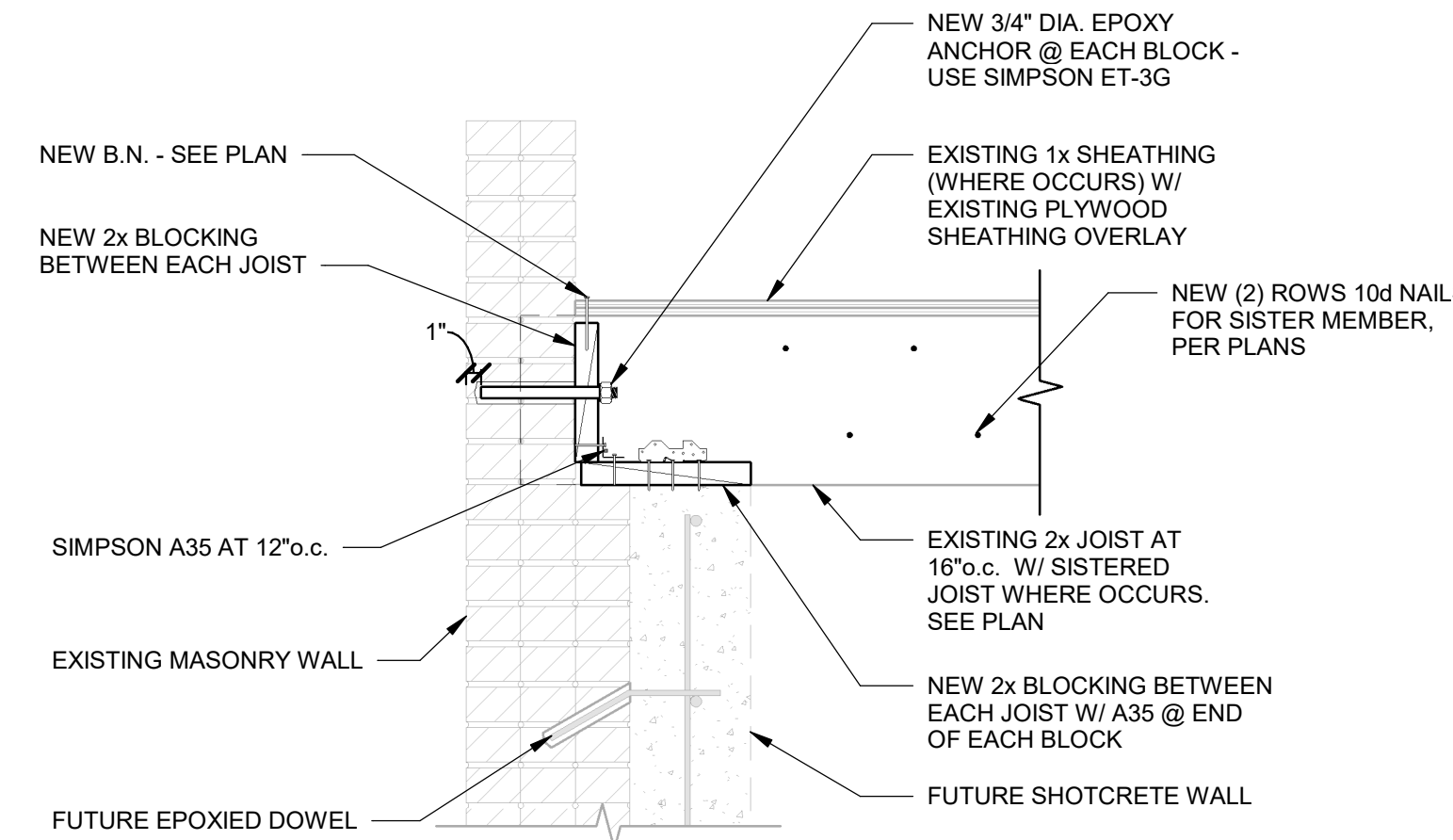
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S201



DETAIL

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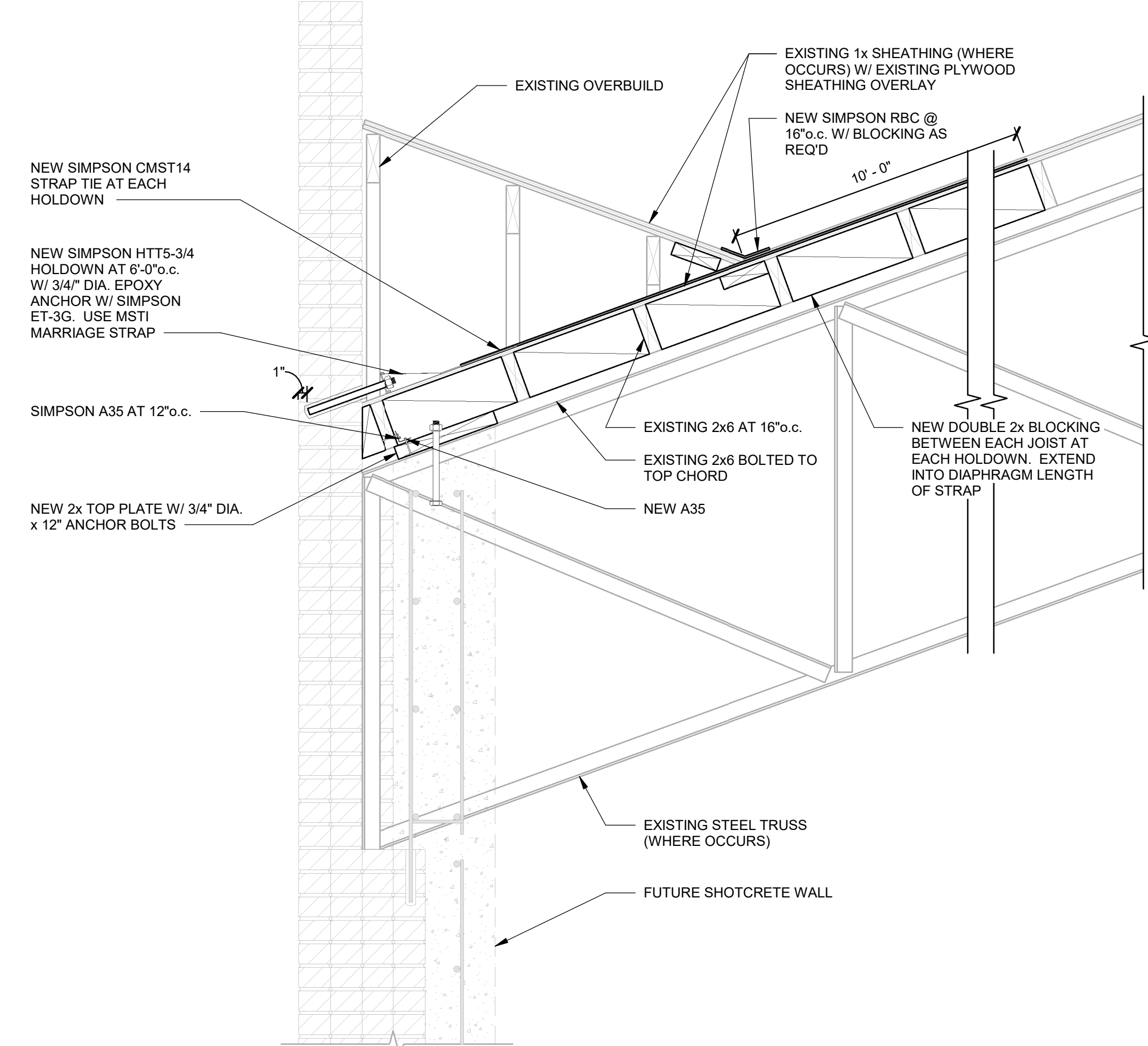
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DETAIL

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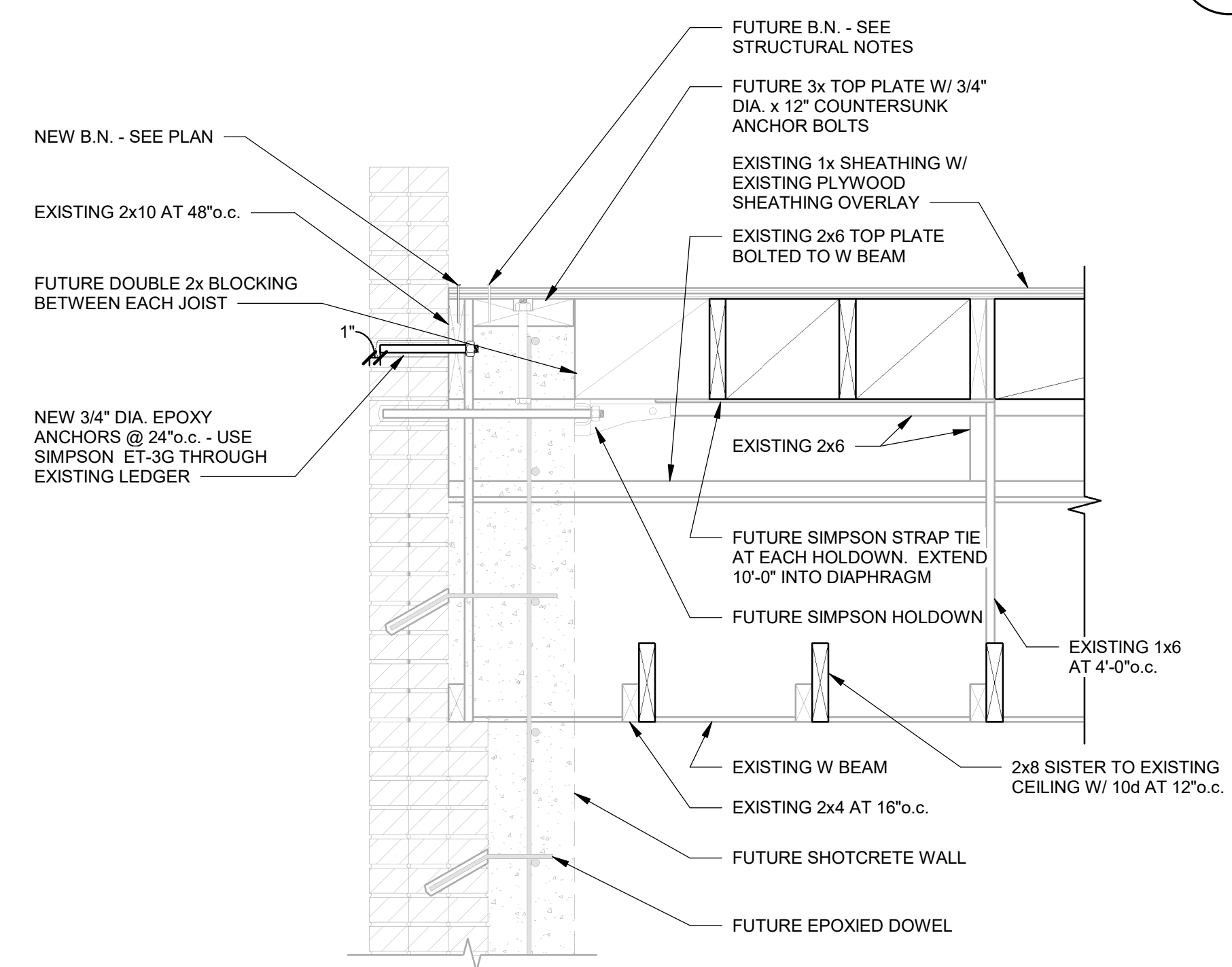
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DETAIL

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3
S201

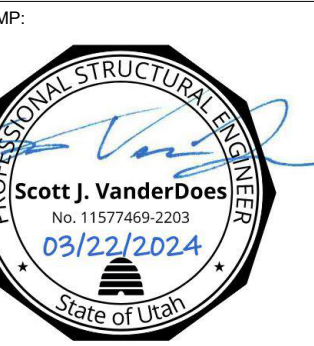
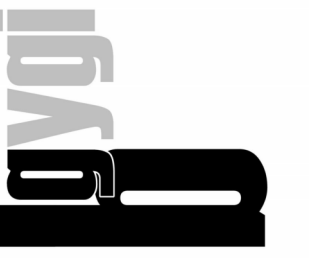


DETAIL

SCALE : NONE

6
S201

bradley gygi architect & associates, pllc
 2150 South 1300 East, Suite 500
 Salt Lake City, Utah 84106
 801.472.451



LOGAN 1, 2
 LOGAN UT CACHE WEST STAKE
 89 SOUTH 200 WEST
 LOGAN, UT

PROJECT FOR:
 THE CHURCH OF
JESUS CHRIST
 OF LATTER-DAY SAINTS

PROJECT NUMBER:
 23750
 DATE:
 03/22/2024
 PROPERTY NUMBER:
 5017351

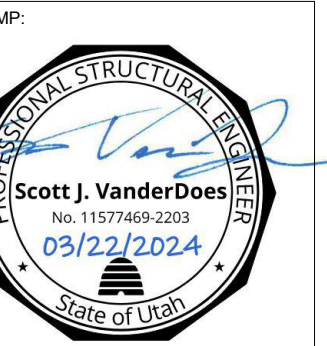
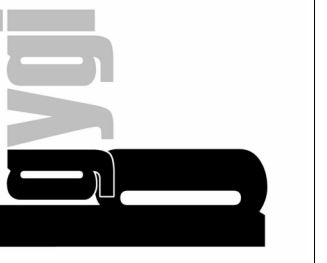
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SHEET TITLE:
DETAILS

SHEET:

S201

3/22/2024 2:40:27 PM X:\DRAWINGS\2023\23750 - Logan 1 & 2 Roof Upgrade\5-23750 - Logan 1 & 2 Roof Upgrade - v.24.rvt



PROJECT FOR:
LOGAN 1, 2
LOGAN UT CACHE WEST STAKE
89 SOUTH 200 WEST
LOGAN, UT

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

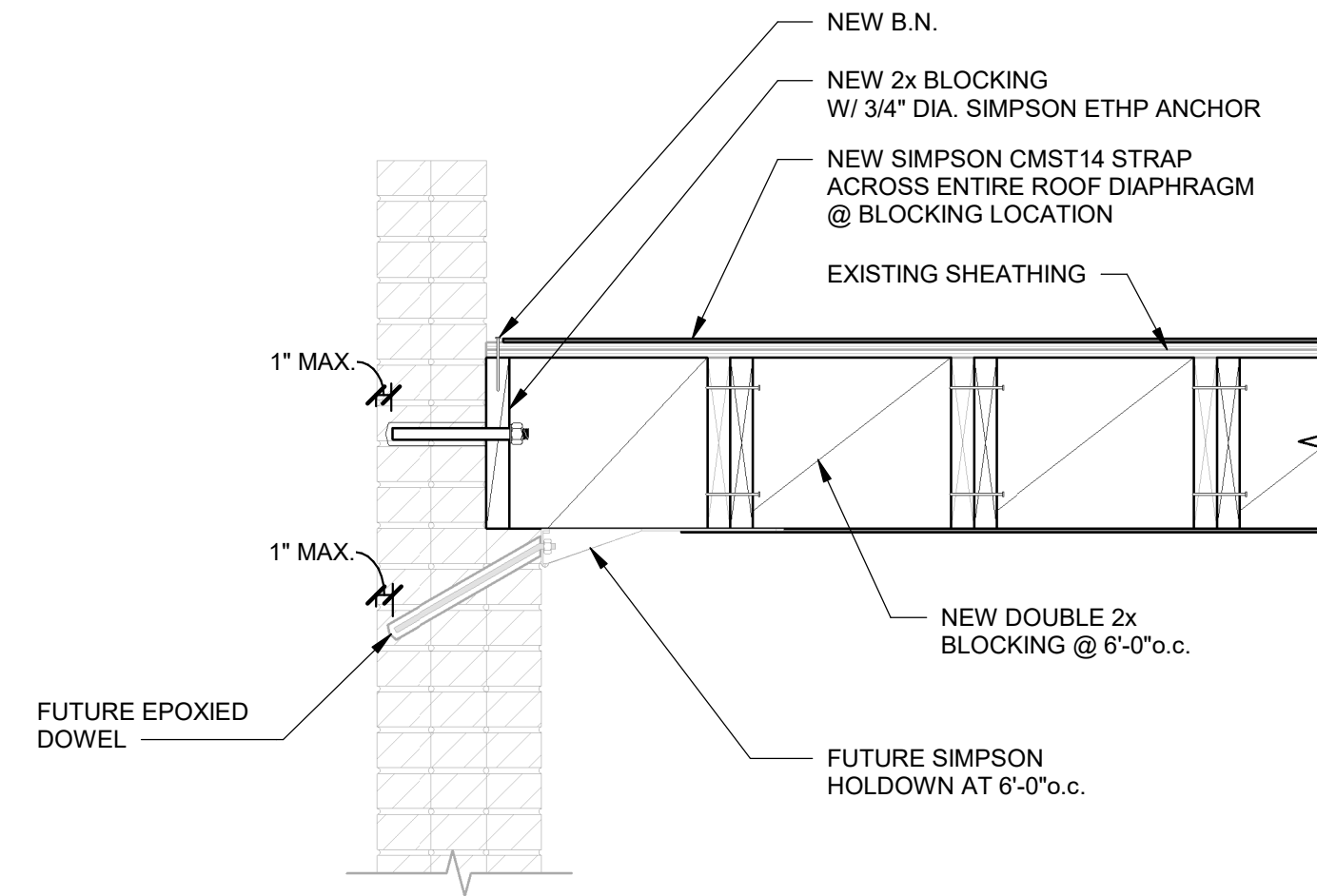
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DATE:
03/22/2024
PROPERTY NUMBER:
5017351

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SHEET TITLE:
DETAILS

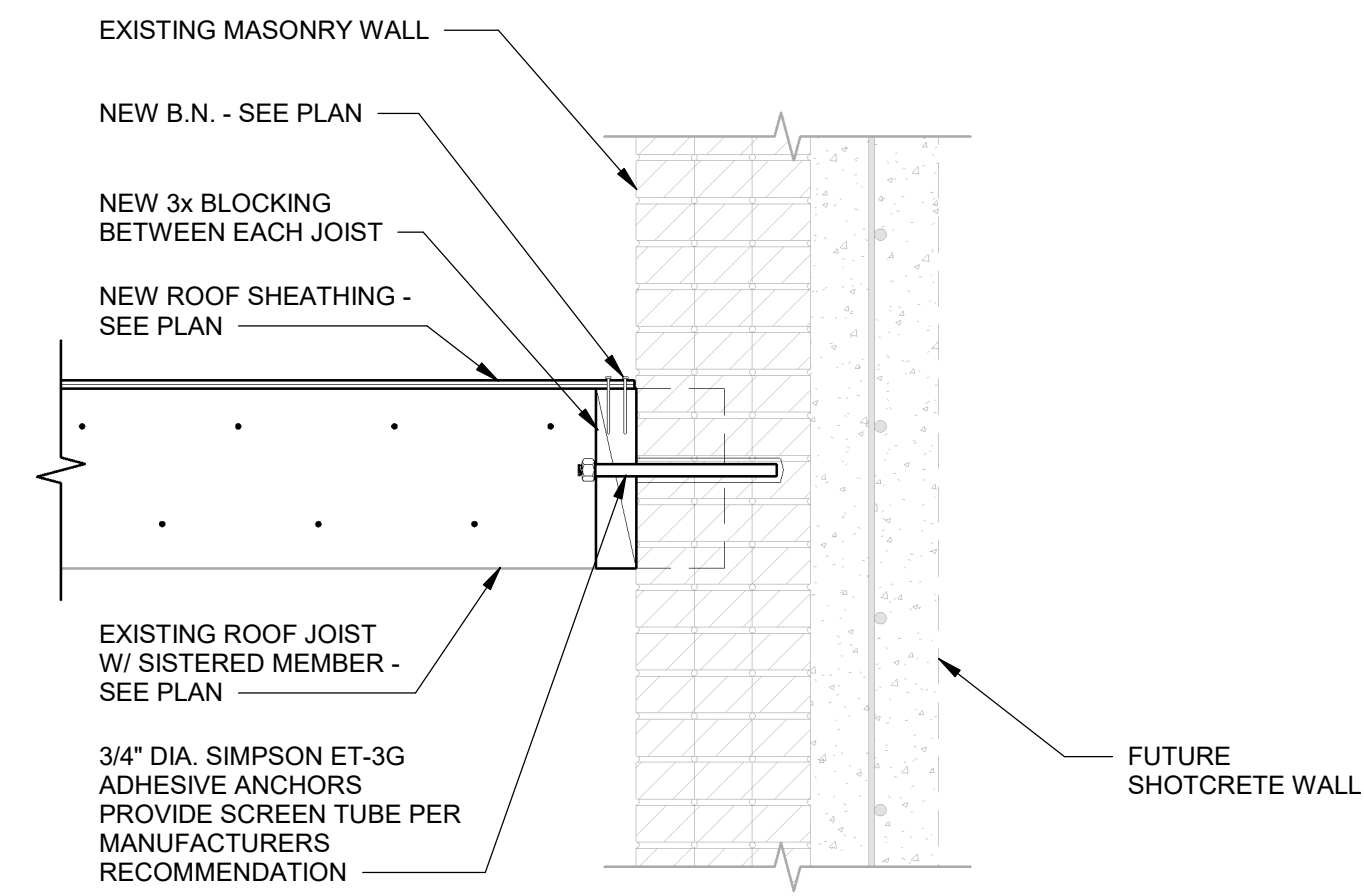
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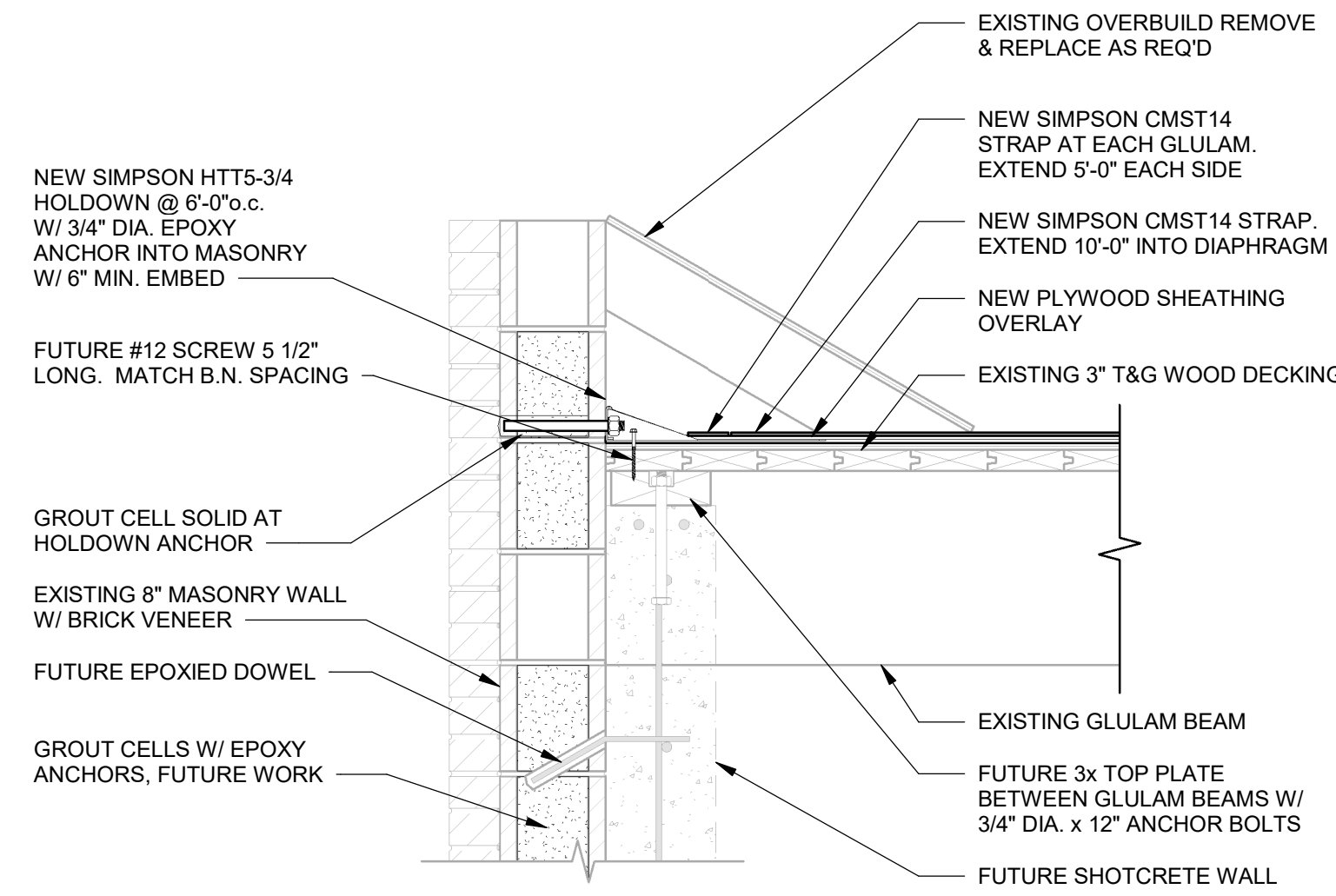
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SCALE: NONE

2
S202



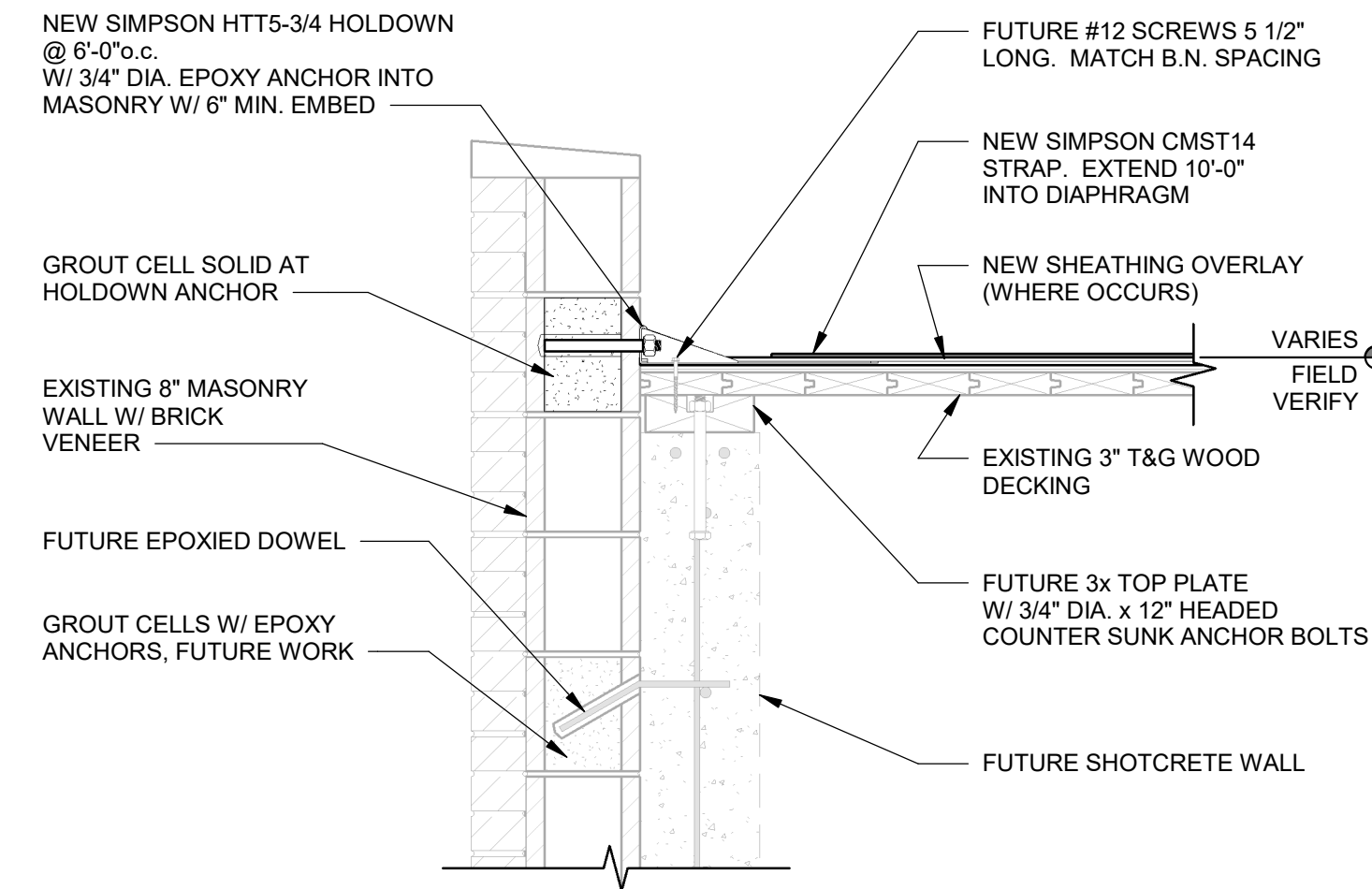
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3
S202



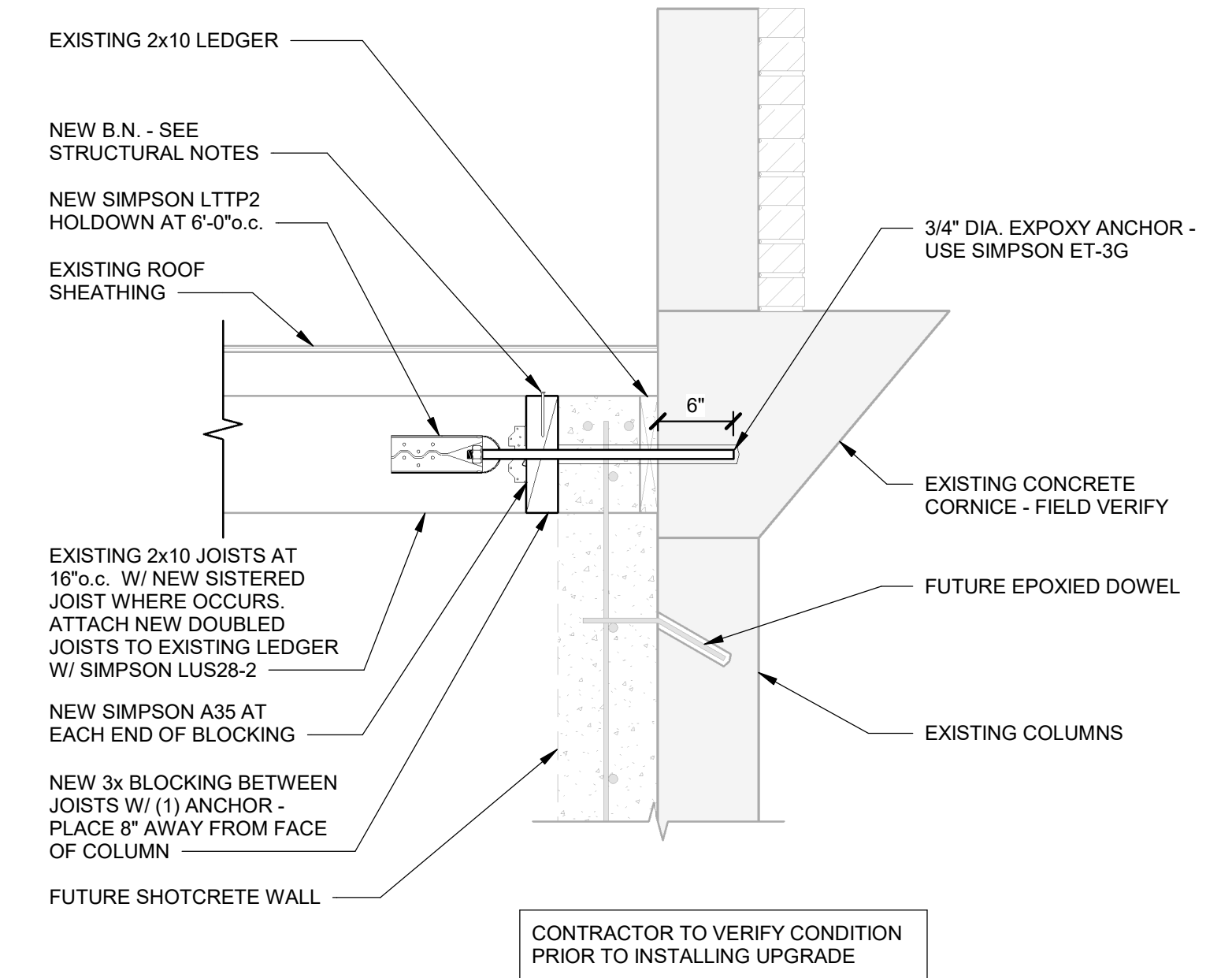
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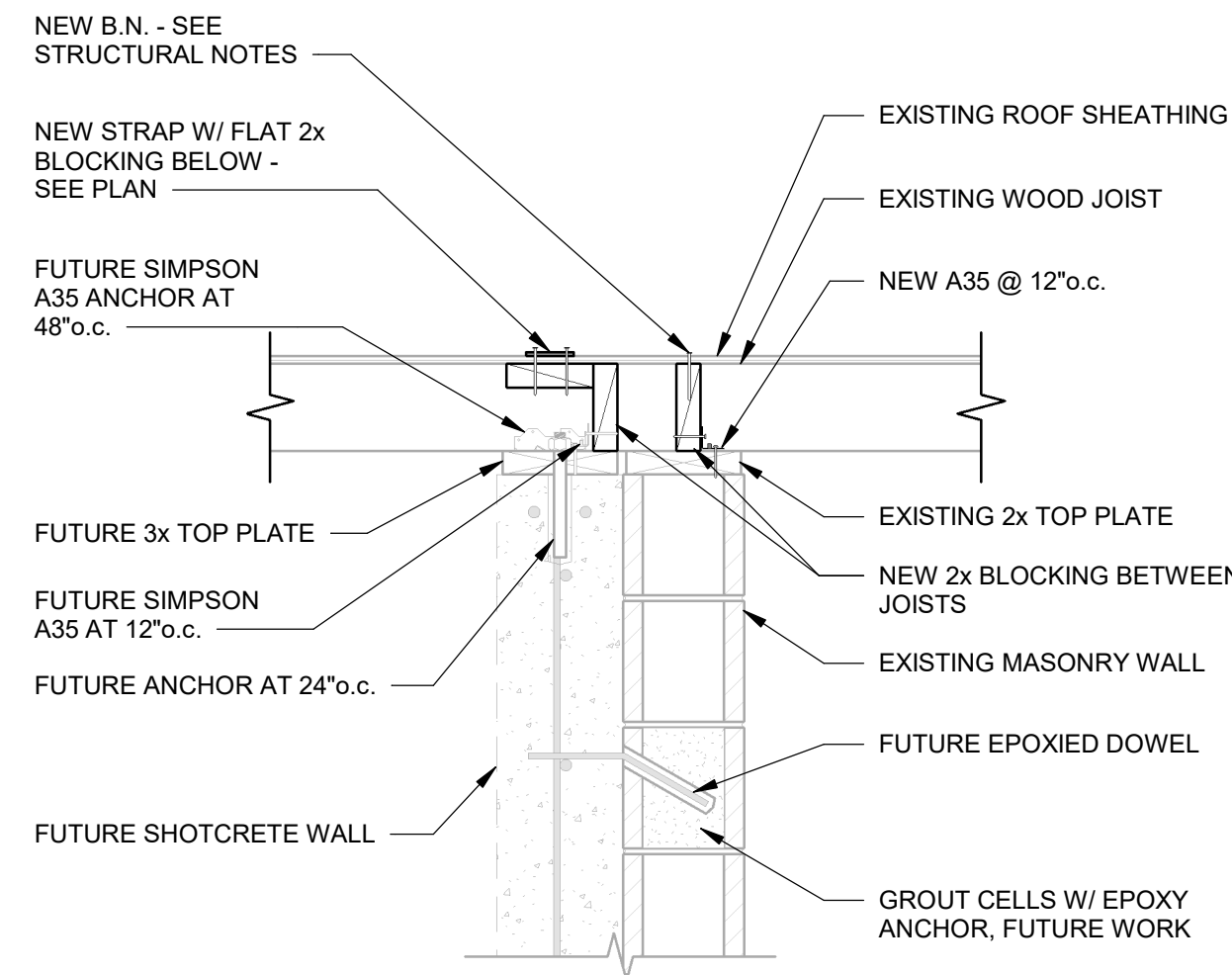
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S202



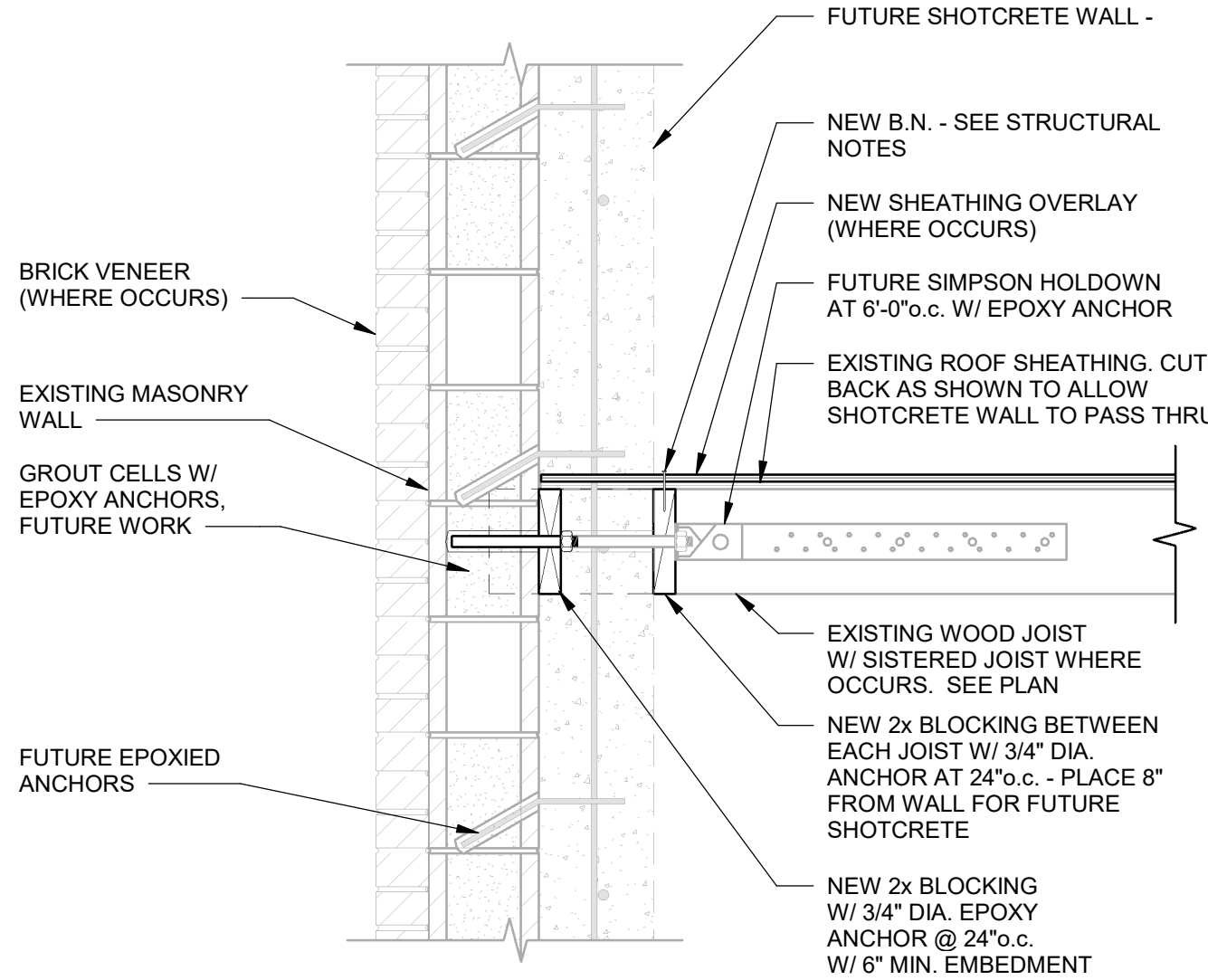
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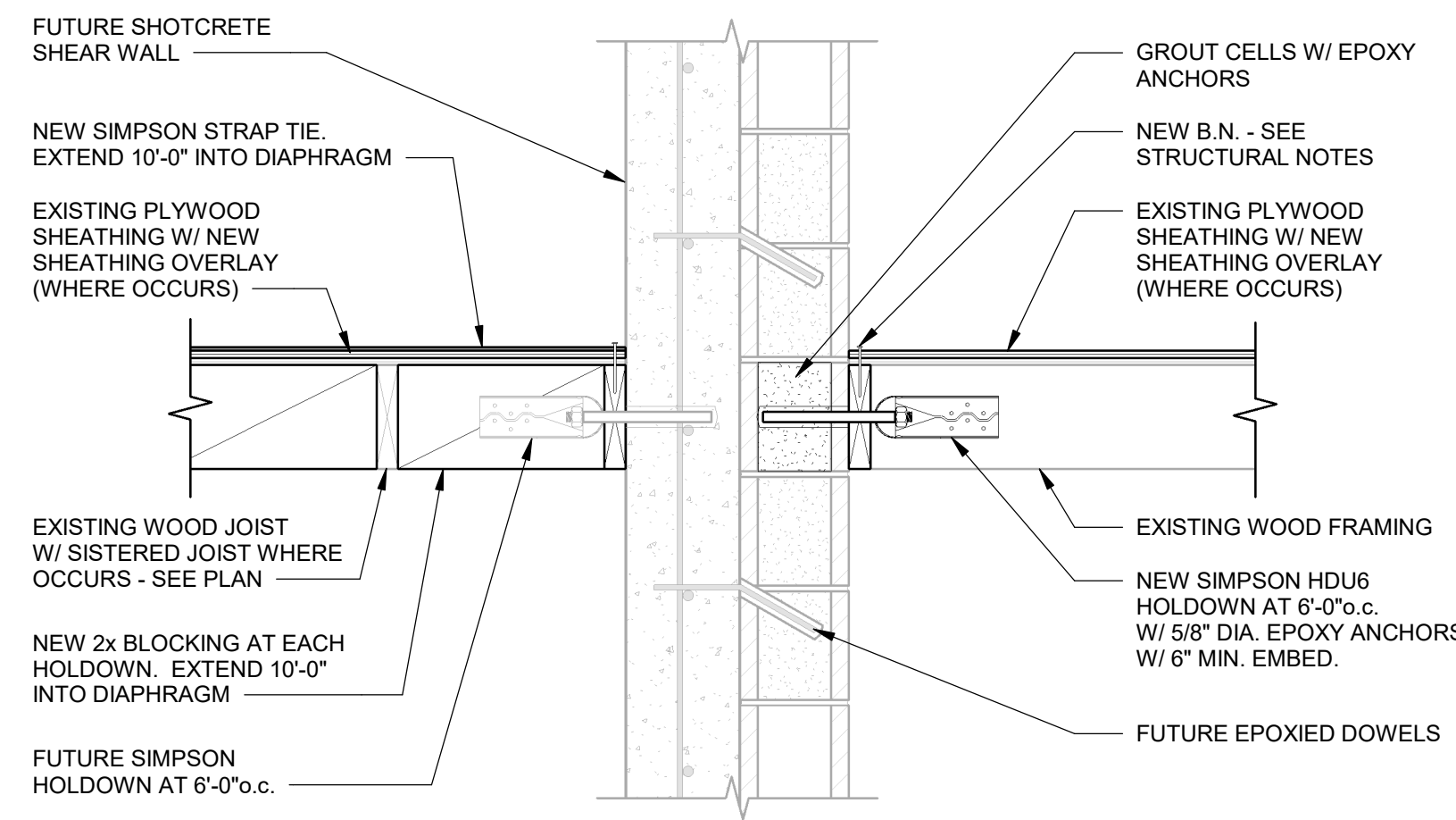
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DETAIL
SCALE: NONE

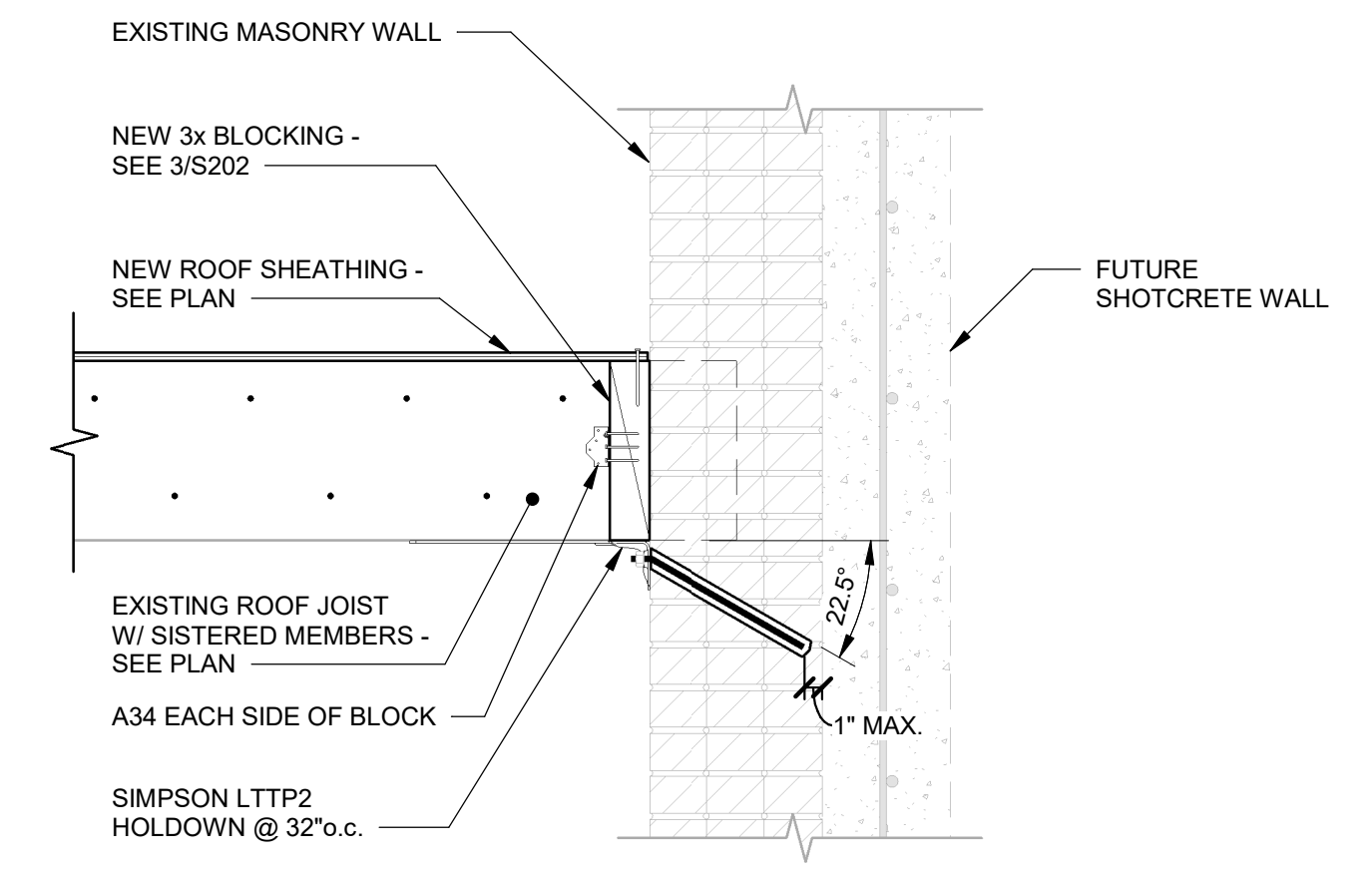
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DETAIL
SCALE: NONE

9
S202

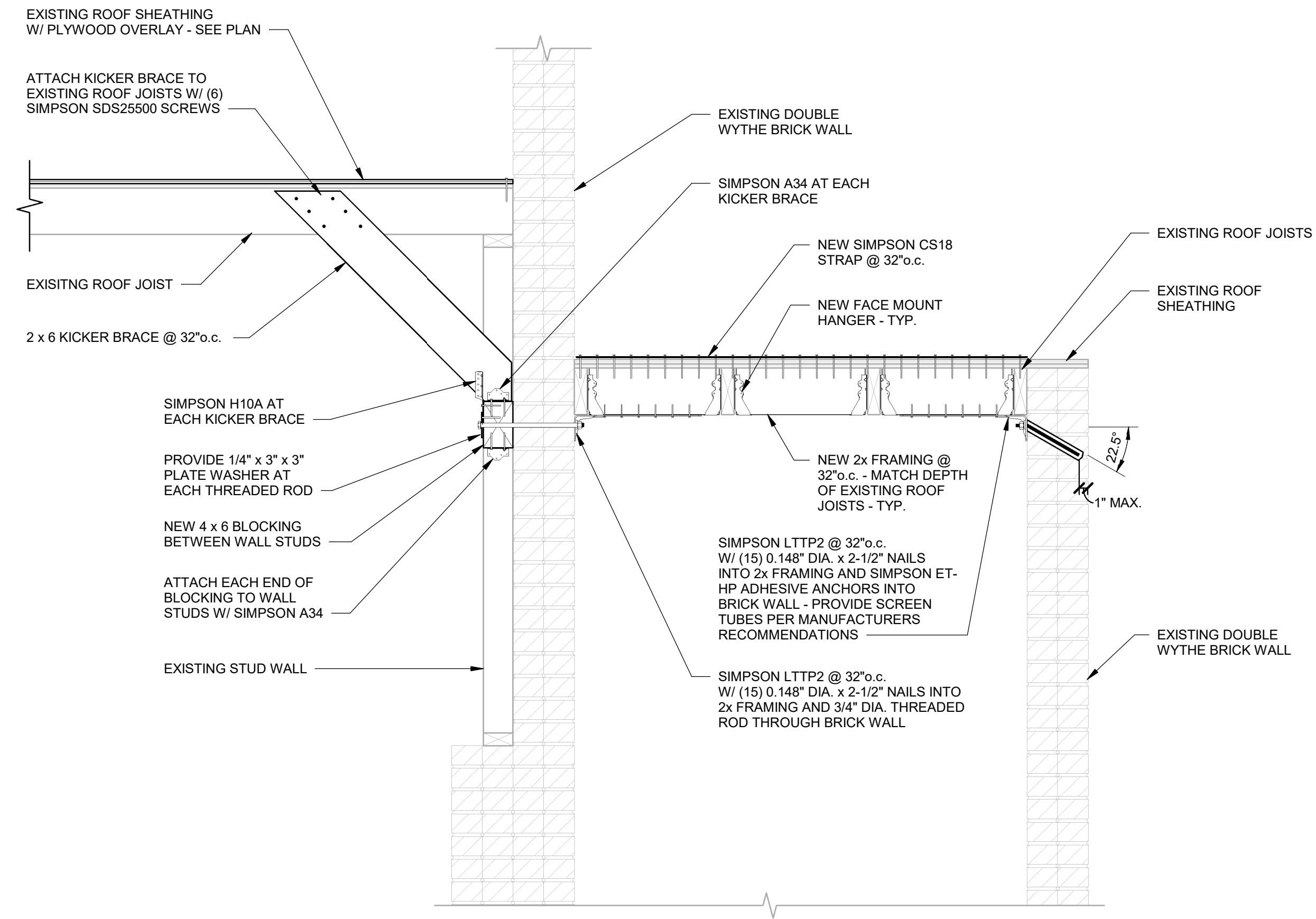
IT IS UNDERSTOOD THAT THIS DETAIL DOES NOT MATCH
EXISTING CONDITION. CONTACT ENGINEER WHEN THIS
AREA IS OPENED TO DETERMINE EXTENT OF UPGRADES



DETAIL
SCALE: NONE

10
S202

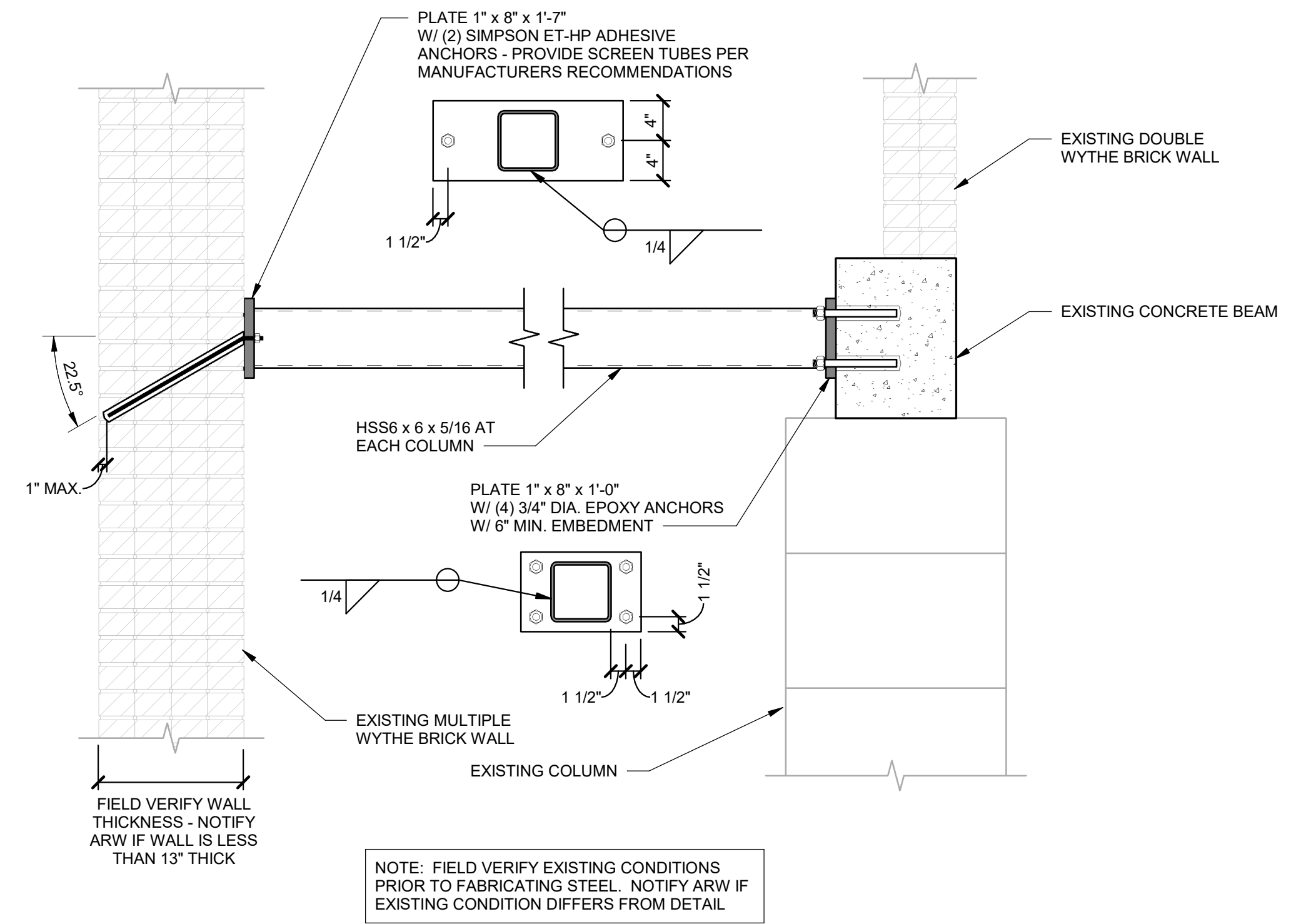
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DETAIL

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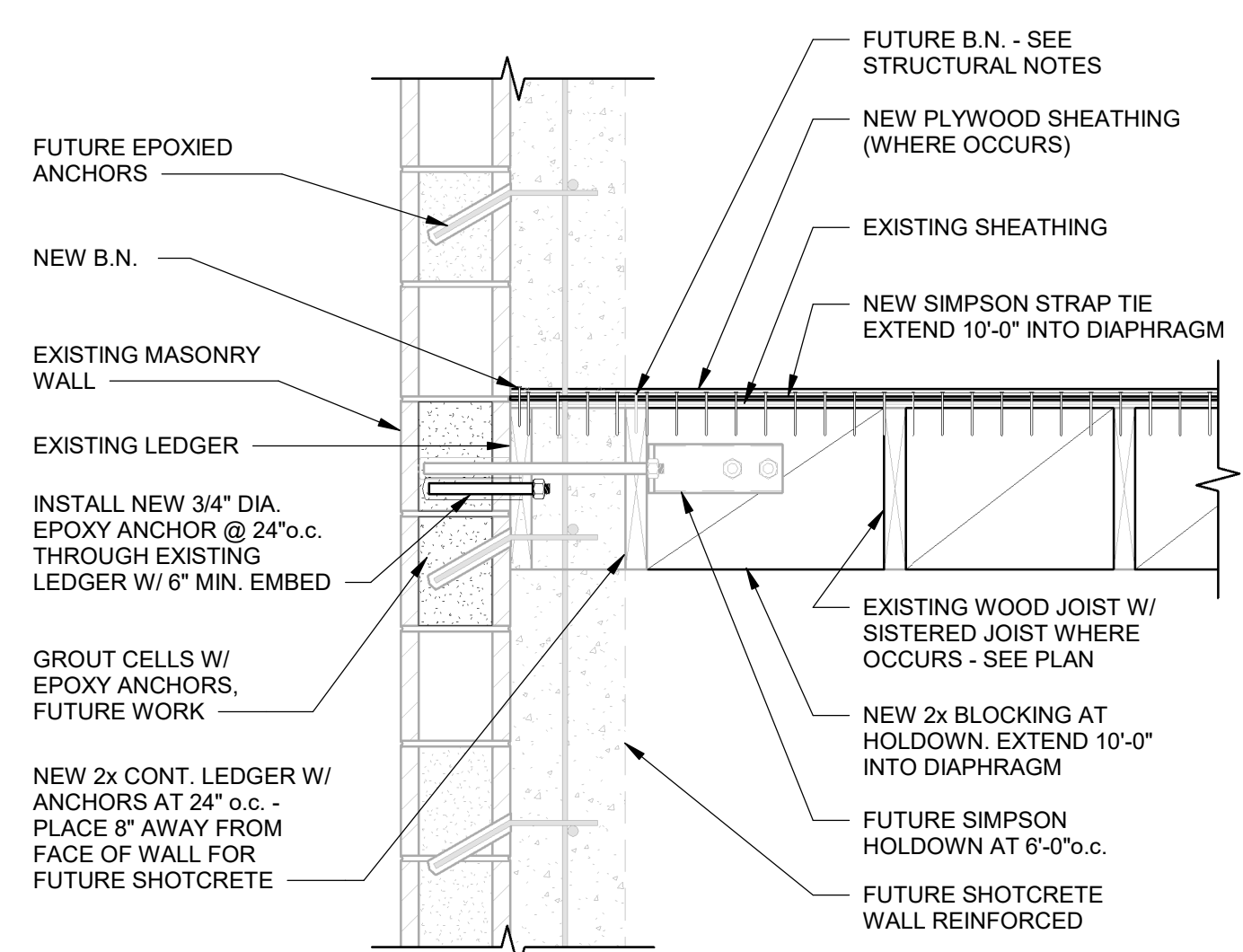
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DETAIL

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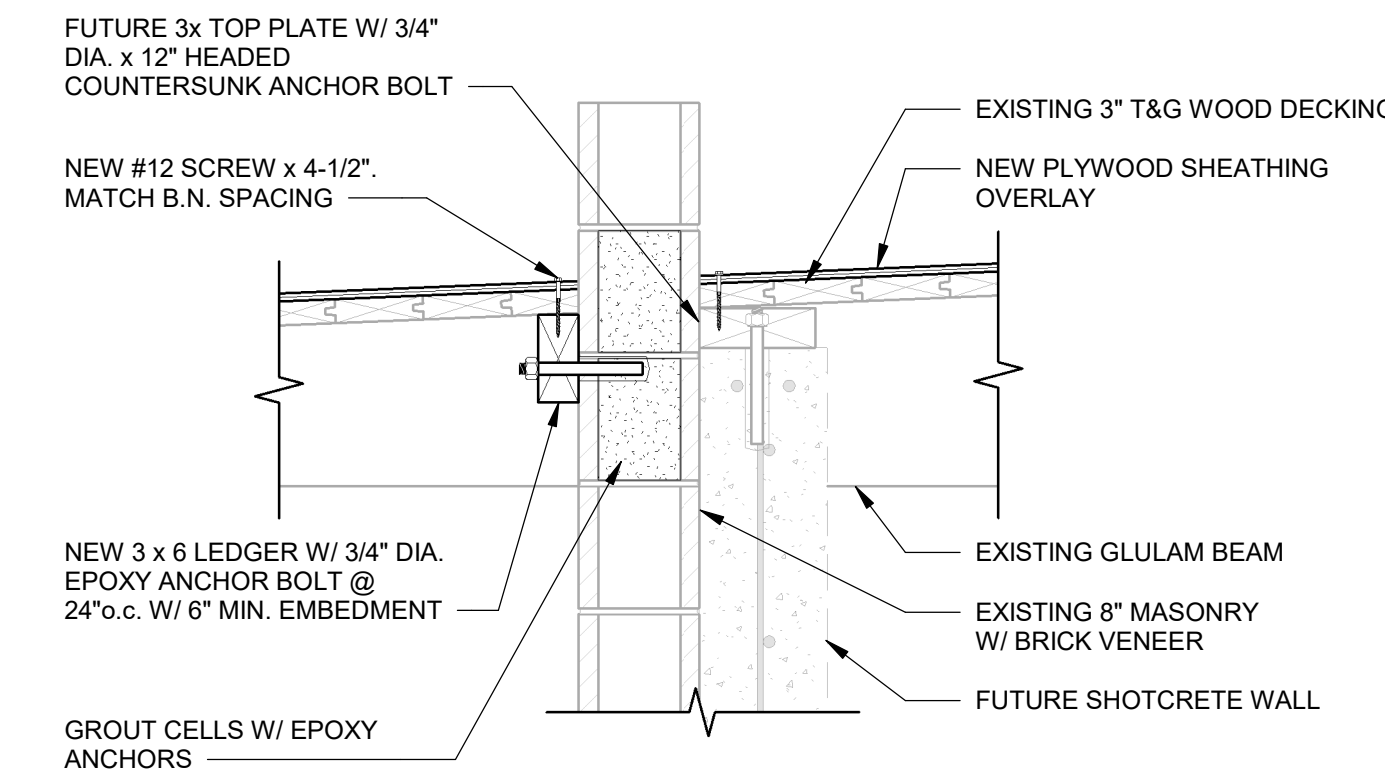
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S203



DETAIL

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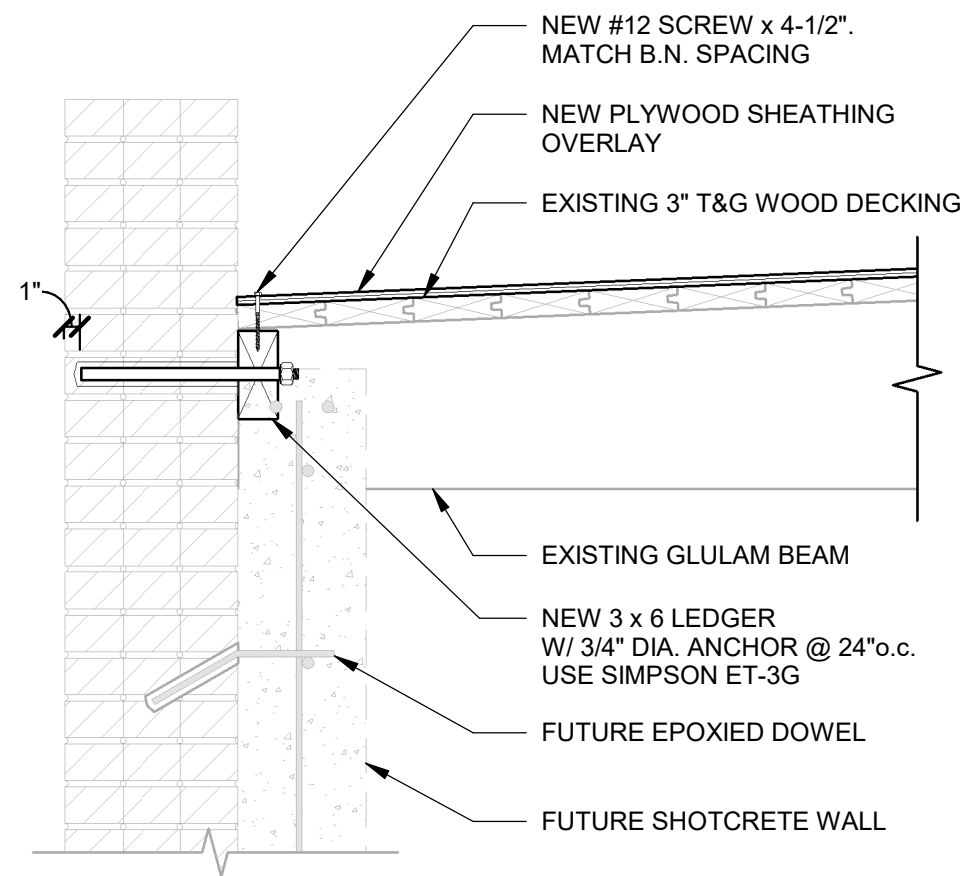
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DETAIL

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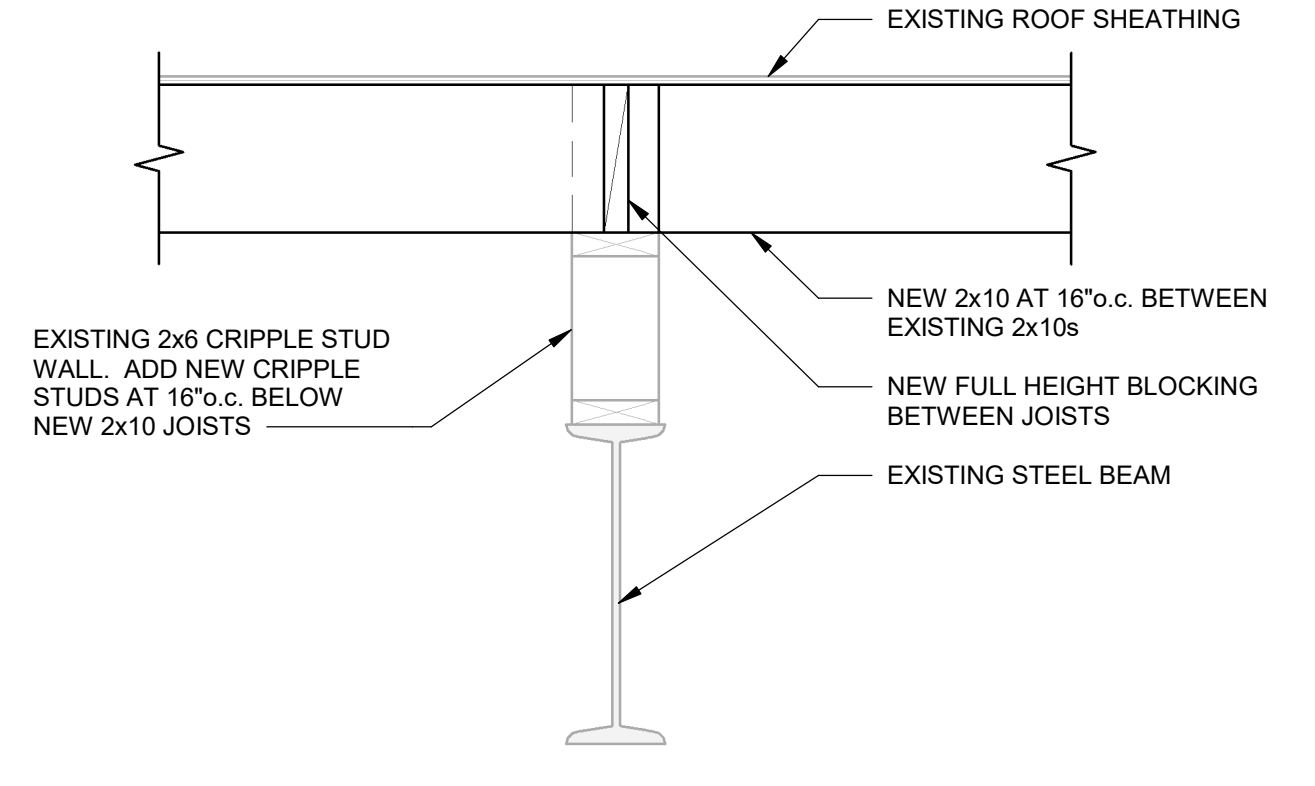
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S203



DETAIL

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5
S203

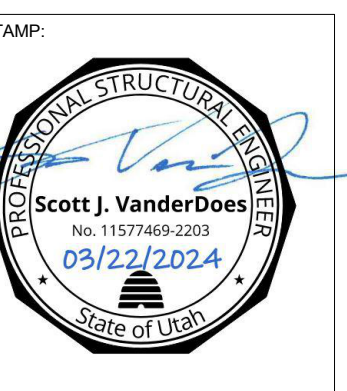
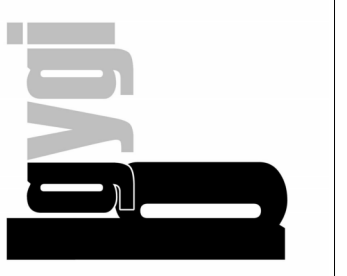


DETAIL

SCALE : NONE

6
S203

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Salt Lake City, Utah 84106
801.472.451



LOGAN 1, 2
LOGAN UT CACHE WEST STAKE
89 SOUTH 200 WEST
LOGAN, UT

PROJECT FOR:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

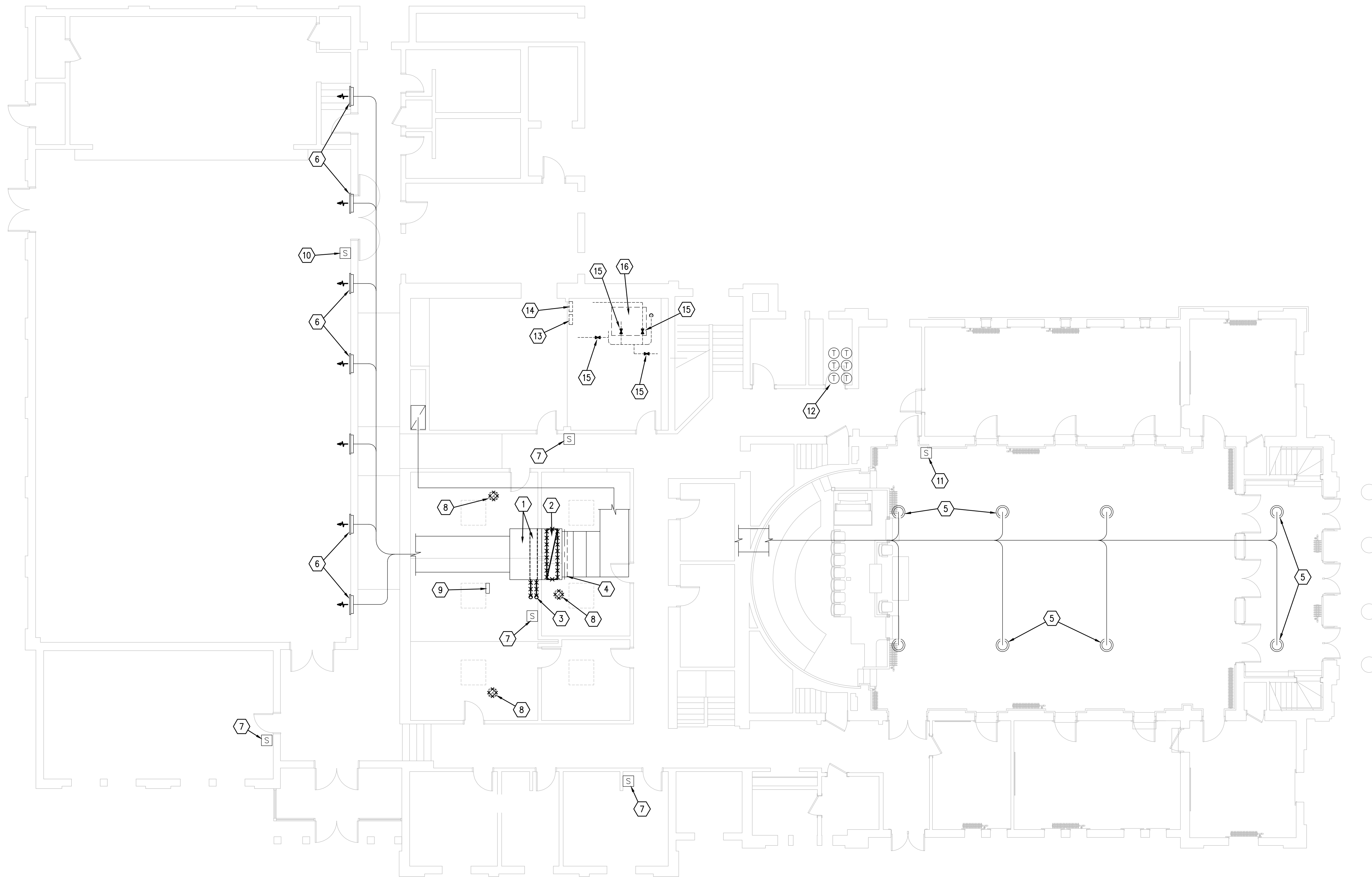
PROJECT NUMBER:
23750
DATE:
03/22/2024
PROPERTY NUMBER:
5017351

DRAWN BY: _____ CHECKED: _____

SHEET TITLE:
DETAILS

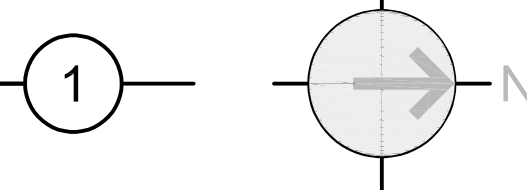
SHEET:
S203

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MECHANICAL DEMOLITION FLOOR PLAN

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



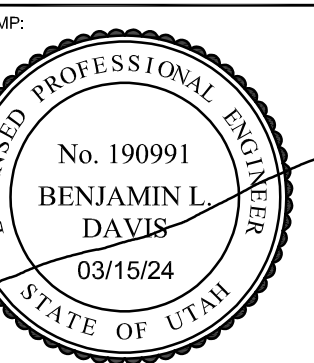
GENERAL NOTES

1. EXISTING PIPING AND EQUIPMENT SHOWN FOR CONTRACTOR'S REFERENCE. FIELD DETERMINE EXACT SIZE, ELEVATION, AND LOCATION OF EXISTING ITEMS, INCLUDING THEIR RELATIONSHIP WITH INTENDED WORK PRIOR TO STARTING ANY WORK.
2. PATCH AND REPAIR ALL EXISTING SURFACES DAMAGED BY NEW CONSTRUCTION TO MATCH EXISTING.
3. SAW CUT OR CORE DRILL ALL NEW PENETRATIONS THROUGH EXISTING MASONRY CONSTRUCTION.
4. IF CONTRACTOR ENCOUNTERS MATERIAL THAT MAY CONTAIN ASBESTOS, HE SHALL IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
5. DEMOLITION - GENERAL:
 - a. REMOVAL OF EQUIPMENT, PIPING, OR DUCTWORK TO INCLUDE REMOVAL OF ALL RELATED APPURTENANCES SUCH AS WIRING, CONDUIT, SUPPORTS, ETC. AND MODIFICATIONS REQUIRED FOR A COMPLETE OPERATING SYSTEM.
 - b. REMOVE BRANCH CONDUIT AND WIRING COMPLETELY. TERMINATE AT JUNCTION BOX.
 - c. PATCH AND REPAIR ALL EXISTING SURFACES (WALL, ROOF, FLOOR, CEILING, ETC.) TO MATCH EXISTING.
6. REMODEL - GENERAL:
 - a. ALL NEW CONDUIT, PIPING, DUCT, EQUIPMENT, AND APPURTENANCES TO BE CONCEALED UNLESS OTHERWISE NOTED.
 - b. EXISTING SURFACES (WALL, ROOF, FLOOR, CEILING, ETC.) TO BE REMOVED AS REQUIRED AND REPLACE TO MATCH EXISTING.

KEYED NOTES

1. EXISTING AIR HANDLER AND DX COOLING COIL SERVING CULTURAL CENTER ABOVE CEILING TO REMAIN FOR RE-USE WITH NEW AIR-COOLED CONDENSING UNITS AND REFRIGERANT PIPING. PROVIDE COMPLETE CHEMICAL SCRUB OF INTERIOR OF EXISTING COOLING COIL FOR USE WITH NEW R-410a REFRIGERANT AND ASSOCIATED COMPRESSOR OIL.
2. REMOVE EXISTING OUTSIDE AIR DUCT FROM AIR HANDLER MIXING BOX INCLUDING DAMPER, LINKAGE, AND DAMPER ACTUATOR. CAP EXISTING OPENING FOR NEW MINIMUM OUTSIDE AIR DUCT CONNECTION.
3. REMOVE EXISTING REFRIGERANT PIPING SERVING CULTURAL CENTER AIR HANDLER IN ITS ENTIRETY FOR REPLACEMENT.
4. EXISTING CULTURAL CENTER MIXING BOX MAIN RETURN AIR INLET. ANCHOR EXISTING RETURN AIR DAMPER IN 100% OPEN POSITION.
5. EXISTING CEILING SUPPLY DIFFUSER SERVING CHAPEL. TYPICAL.
6. EXISTING SIDEWALL SUPPLY GRILLE SERVING CULTURAL CENTER. TYPICAL.
7. LOCATION OF EXISTING REMOTE PUSH-BUTTON SENSOR SERVING ZONE HEATING VALVE. REMOVE FOR REPLACEMENT WITH NEW TOUCH SCREEN THERMOSTAT.
8. REMOVE EXISTING CEILING EXHAUST GRILLE AND RELATED EXHAUST DUCT.
9. LOCATION OF EXISTING CULTURAL CENTER ZONE RELAY PANEL RP-1 ABOVE.
10. LOCATION OF EXISTING REMOTE PUSH-BUTTON SENSOR SERVING CULTURAL CENTER ZONE. REMOVE FOR REPLACEMENT WITH NEW TOUCH SCREEN THERMOSTAT AND GUARD.
11. LOCATION OF EXISTING REMOTE PUSH-BUTTON SENSOR SERVING CHAPEL ZONE. REMOVE FOR REPLACEMENT WITH NEW TOUCH SCREEN THERMOSTAT.
12. LOCATION OF EXISTING PROGRAMMABLE THERMOSTATS. REMOVE FOR REPLACEMENT WITH NEW UNITARY CONTROLLERS.
13. LOCATION OF EXISTING CHAPEL ZONE RELAY PANEL RP-1 BELOW IN BOILER ROOM.
14. LOCATION OF RELAY PANEL SERVING FOUR HEATING ZONES BELOW IN BOILER ROOM.
15. ZONE VALVE LOCATIONS AT BOILER ROOM BELOW. FIELD VERIFY EXACT ZONES AND LOCATIONS FOR ATC UPGRADE.
16. LOCATION OF EXISTING STEAM BOILER BELOW.

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 801-747-2451



LOGAN 1/2
 LOGAN UT CACHE WEST STAKE
 89 SOUTH 200 WEST
 LOGAN, UT

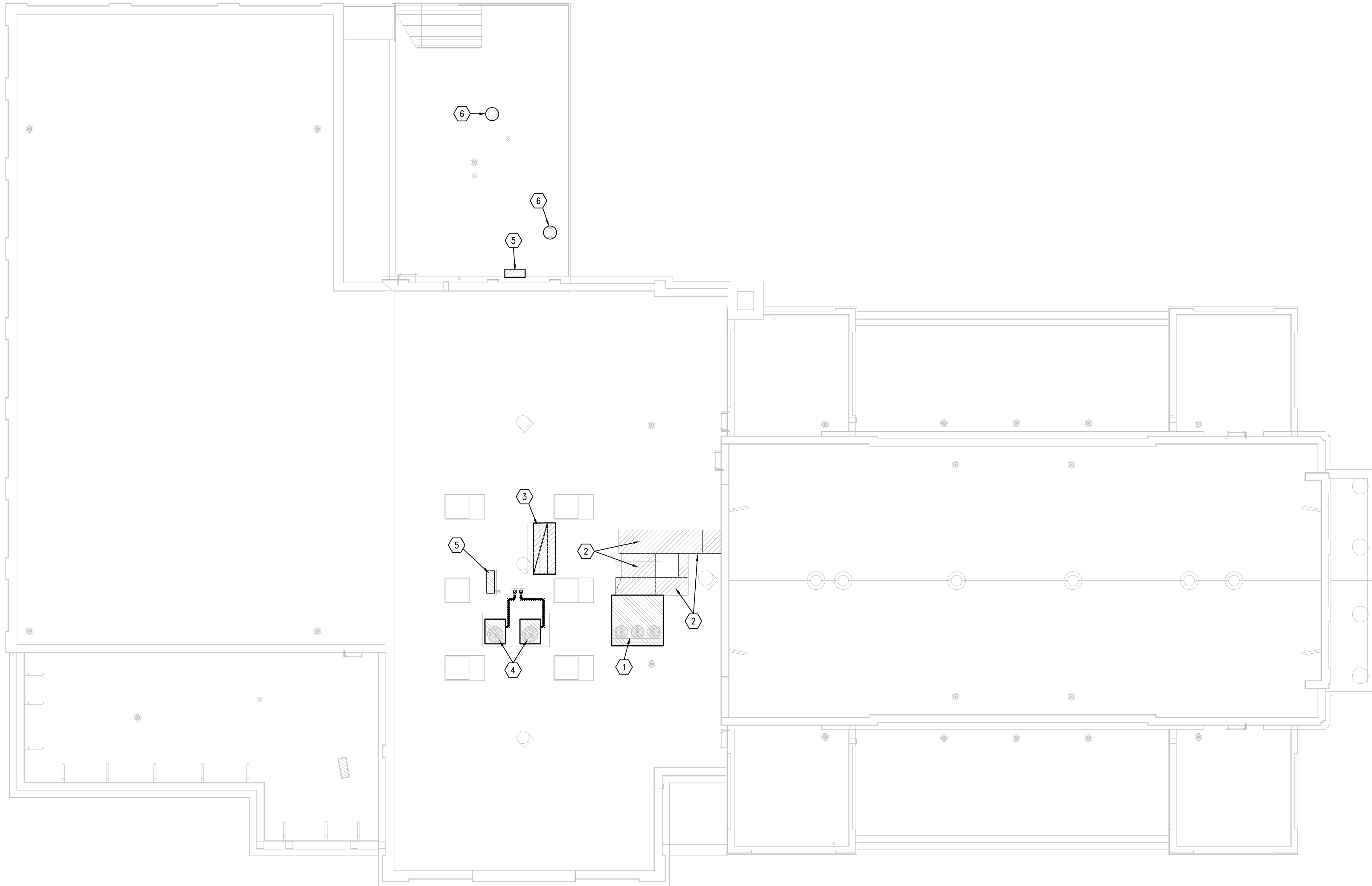
PROJECT FOR:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

PROJECT NUMBER:
501735120070101
 DATE:
15 MAR 2024
 PROPERTY NUMBER:
5017351

DRAWN BY:
JTA
 CHECKED:
JTA

SHEET TITLE:
MECHANICAL DEMOLITION FLOOR PLAN

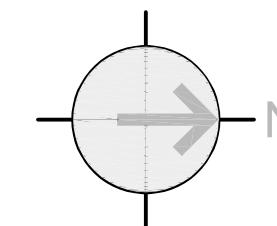
SHEET:
MD101



MECHANICAL DEMOLITION ROOF PLAN

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

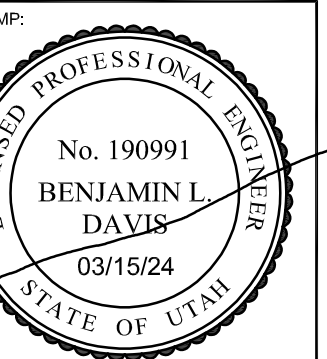
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KEYED NOTES

1. REMOVE EXISTING COOLING ONLY ROOFTOP UNIT SERVING CHAPEL ZONE FOR REPLACEMENT WITH NEW GAS/ELECTRIC PACKAGED ROOFTOP UNIT.
2. REMOVE EXISTING EXTERIOR DUCT SYSTEMS AND SUPPORTS IN THEIR ENTIRETY UP TO EXTERIOR WALL PENETRATIONS FOR REPLACEMENT.
3. REMOVE EXISTING OUTSIDE AIR INTAKE HOOD AND ASSOCIATED DUCT.
4. REMOVE EXISTING AIR-COOLED CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING FOR REPLACEMENT.
5. EXISTING EXTERIOR SPLIT-SYSTEM HEAT PUMP TO BE REMOVED AND RE-INSTALLED FOR RE-ROOF. PUMP DOWN SYSTEM AND REMOVE EXTERIOR UNIT DURING RE-ROOF WORK. PROTECT EXISTING EXTERIOR REFRIGERANT PIPING, POWER, AND CONTROLS AS REQUIRED DURING RE-ROOF WORK.
6. EXISTING ROOFTOP EXHAUST FAN TO REMAIN. REMOVE AND REINSTALL AS REQUIRED FOR RE-ROOF WORK.

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& associates, pllc**
 gygi
 PO Box 621048 | Salt Lake City, UT 84152
 801-747-2451



LOGAN 1,2
 LOGAN UT CACHE WEST STAKE
 89 SOUTH 200 WEST
 LOGAN, UT

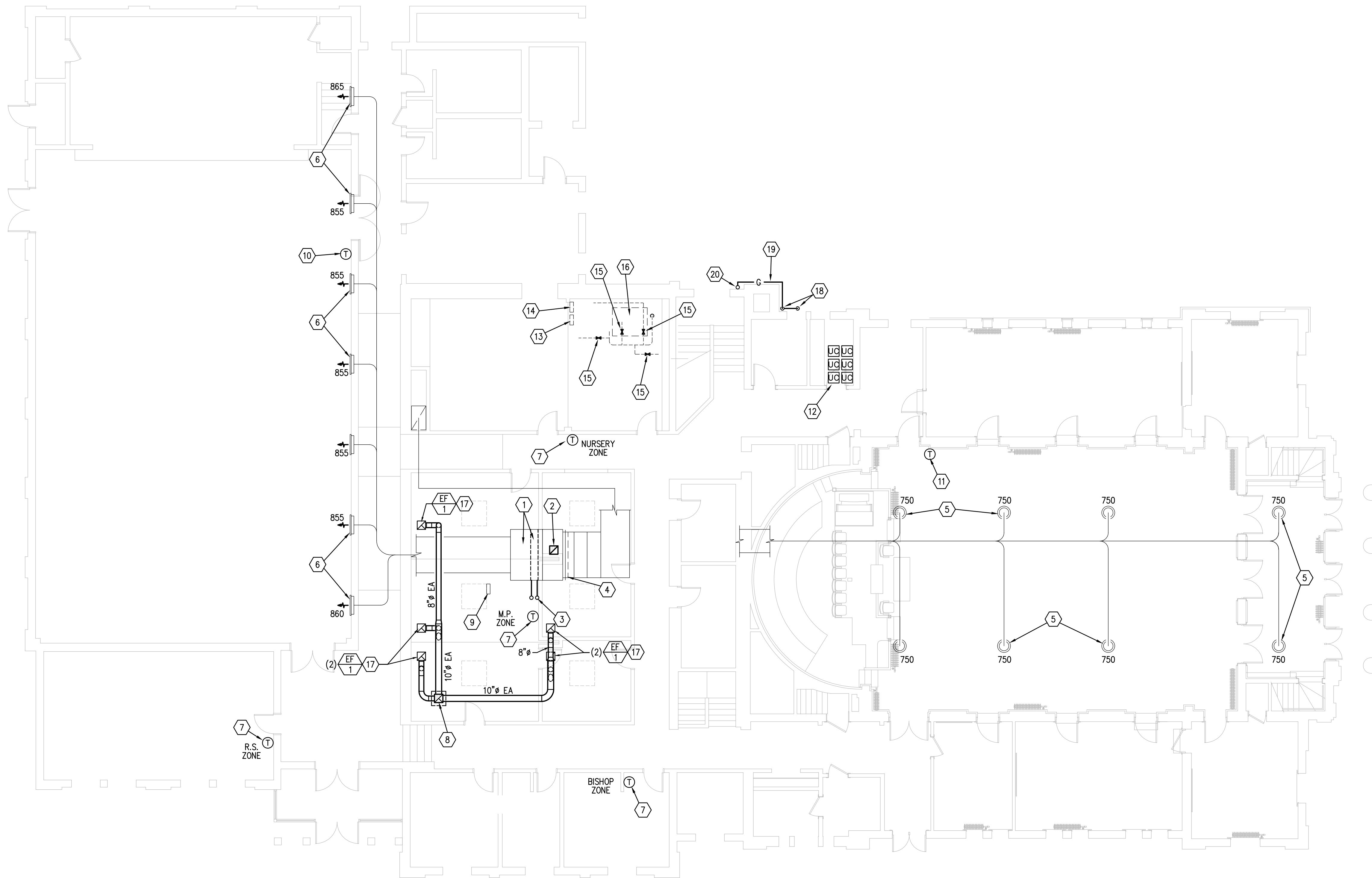
PROJECT FOR:
**THE CHURCH OF
 JESUS CHRIST
 OF LATTER-DAY SAINTS**

PROJECT NUMBER:
501735120070101
 DATE:
15 MAR 2024
 PROPERTY NUMBER:
5017351

DRAWN BY:
JTA
 CHECKED:
JTA

SHEET TITLE:
**MECHANICAL
 DEMOLITION
 ROOF PLAN**

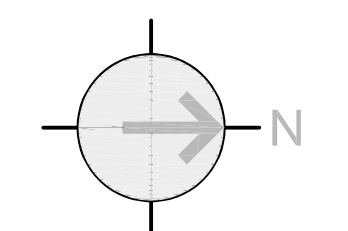
SHEET:
MD121



MECHANICAL FLOOR PLAN

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

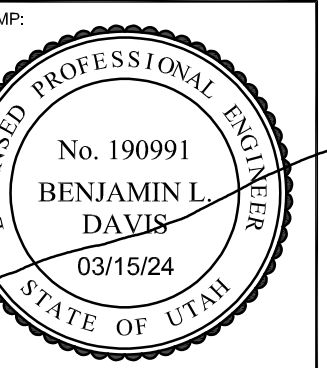
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KEYED NOTES

1. EXISTING AIR HANDLER ABOVE CEILING TO REMAIN. SOLVENT CLEAN FAN AND COILS. CLEAN CABINET INTERIORS. PROVIDE INSPECTION OF MOTOR, SHAFT, BEARINGS, AND PULLEYS. REPLACE FAN BELT(S) AND FILTERS.
2. INSTALL NEW 14"x14" UNLINED AND WRAPPED MINIMUM OUTSIDE AIR DUCT FROM NEW INTAKE PENTHOUSE AND CONNECT TO CAPPED MIXED AIR PLENUM. PROVIDE NEW MINIMUM OUTSIDE AIR DAMPERS AND ACTUATOR (D/M601).
3. INSTALL NEW REFRIGERANT PIPING FROM AIR-COOLED CONDENSING UNITS ON ROOF ABOVE TO EXISTING SPLIT ROW DX COOLING COIL AFTER COMPLETE CHEMICAL SCRUB OF INTERIOR OF COIL. REFER TO PIPING SCHEMATIC AND DETAILS, SHEET M501, FOR PIPING SCHEMATIC AND COIL CONNECTIONS.
4. EXISTING CULTURAL CENTER MIXING BOX MAIN RETURN AIR INLET. VERIFY EXISTING RETURN AIR DAMPER IS ANCHORED IN 100% OPEN POSITION.
5. RE-BALANCE EXISTING CEILING SUPPLY DIFFUSER SERVING CHAPEL TO VOLUME NOTED. TYPICAL.
6. RE-BALANCE EXISTING SIDEWALL SUPPLY GRILLE SERVING CULTURAL CENTER TO VOLUME NOTED. TYPICAL.
7. INSTALL NEW HONEYWELL 'LCBS' TOUCH SCREEN THERMOSTAT AT THIS LOCATION FOR AUTOMATIC TEMPERATURE CONTROLS UPDATE.
8. 14"x14" EXHAUST AIR DUCT UP TO NEW DISCHARGE PENTHOUSE ON ROOF ABOVE.
9. EXISTING CULTURAL CENTER ZONE RELAY PANEL RP-1 LOCATED ABOVE TO REMAIN FOR RE-USE WITH NEW HONEYWELL 'LCBS' CONTROLS.
10. INSTALL NEW HONEYWELL 'LCBS' TOUCH SCREEN THERMOSTAT AND GUARD AT THIS LOCATION FOR ATC UPGRADE TO SERVE CULTURAL CENTER ZONE.
11. INSTALL NEW HONEYWELL 'LCBS' TOUCH SCREEN THERMOSTAT AT THIS LOCATION FOR ATC UPGRADE TO SERVE CHAPEL ZONE.
12. INSTALL NEW HONEYWELL 'LCBS' UNITARY CONTROLLERS AT THIS LOCATION. RE-CONNECT EXISTING CONTROL WIRING AS REQUIRED FOR AUTOMATIC TEMPERATURE CONTROLS UPGRADE.
13. EXISTING CHAPEL ZONE RELAY PANEL RP-1 LOCATED BELOW IN BOILER ROOM TO REMAIN FOR RE-USE WITH NEW HONEYWELL 'LCBS' CONTROLS. INSTALL NEW/REVISED WIRING TO PROVIDE FIRST STAGE HEAT FROM PERIMETER CONNECTORS AND SECOND STAGE HEAT/WINTER VENTILATION AIR PRE-HEAT FROM NEW GAS-FIRED PACKAGED ROOFTOP UNIT.
14. EXISTING RELAY PANEL SERVING FOUR HEATING ZONES BELOW IN BOILER ROOM TO REMAIN FOR RE-USE WITH NEW 'LCBS' CONTROLS.
15. EXISTING ZONE VALVE LOCATIONS AT BOILER ROOM BELOW. FIELD VERIFY EXACT ZONES AND LOCATIONS FOR ATC UPGRADE.
16. LOCATION OF EXISTING STEAM BOILER BELOW.
17. CEILING EXHAUST FAN WITH EXHAUST DISCHARGE DUCT ROUTING THRU MECHANICAL SPACE ABOVE CEILING. CONTROL: 0-30 MIN TIMER SWITCH BY DIV. 26.
18. CONNECT NEW 1" GAS TO EXISTING GAS PIPING BELOW WINDOW AND ROUTE UP EXTERIOR WALL IN CORNER OF MASONRY CHIMNEY. SUPPORT PIPING AT EXTERIOR WALL WITH 1" CHANNELS AND PIPE CLAMPS (72" O.C.). PAINT ALL PIPE AND SUPPORTS TO MATCH MASONRY.
19. ROUTE NEW GAS PIPING HORIZONTALLY AROUND EXTERIOR CHIMNEY ABOVE TRIM AT WEST SIDE OF CHIMNEY.
20. ROUTE NEW GAS PIPING UP AND OVER PARAPET WALL AT ROOF. SEE SHEET M121 FOR CONTINUATION.

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LOGAN 1,2
 LOGAN UT CACHE WEST STAKE
 89 SOUTH 200 WEST
 LOGAN, UT

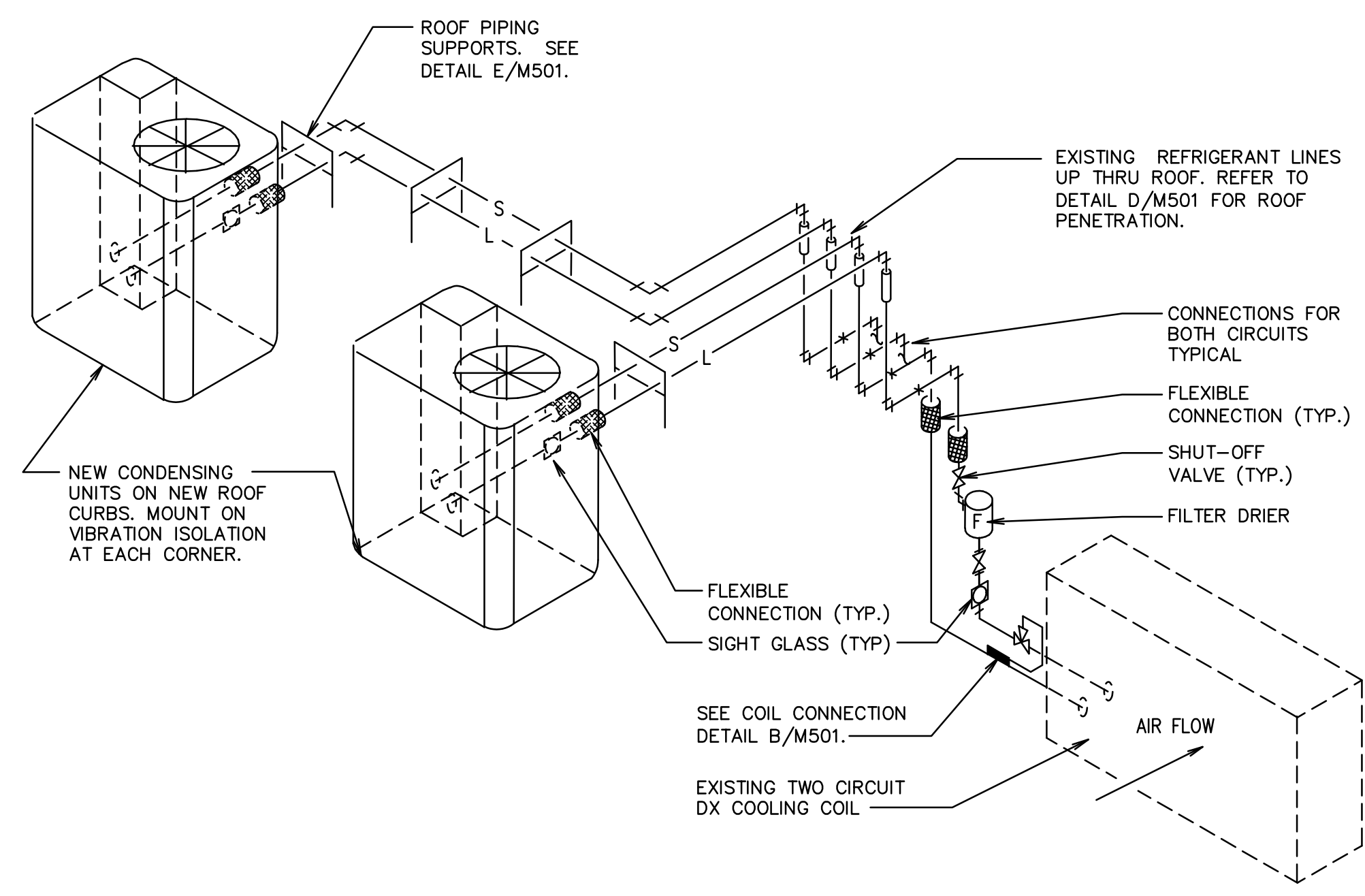
PROJECT FOR:
**THE CHURCH OF
 JESUS CHRIST
 OF LATTER-DAY SAINTS**

PROJECT NUMBER:
 501735120070101
 DATE:
 15 MAR 2024
 PROPERTY NUMBER:
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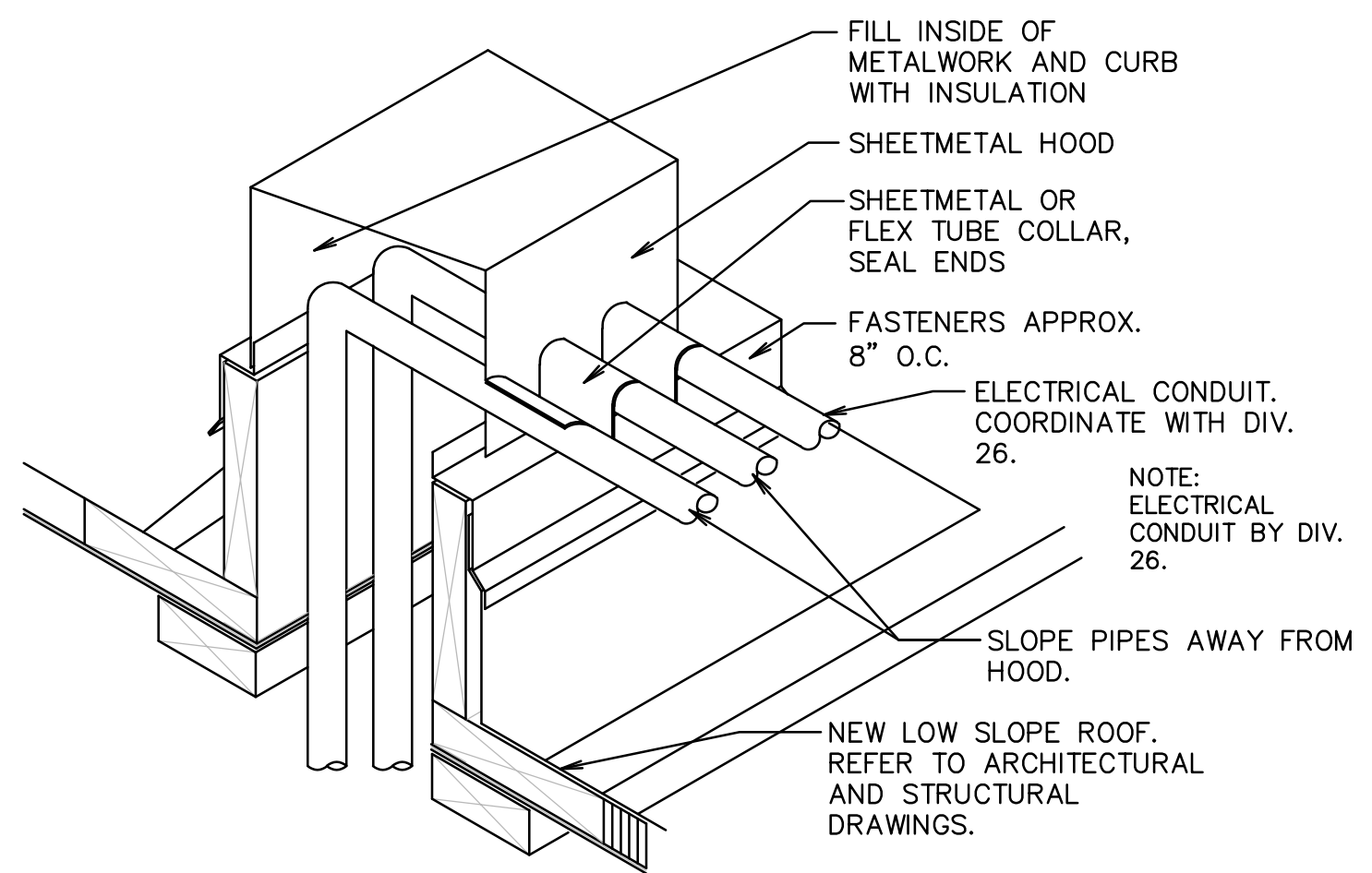
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 JTA
 CHECKED:
 JTA

SHEET TITLE:
**MECHANICAL
 FLOOR PLAN**

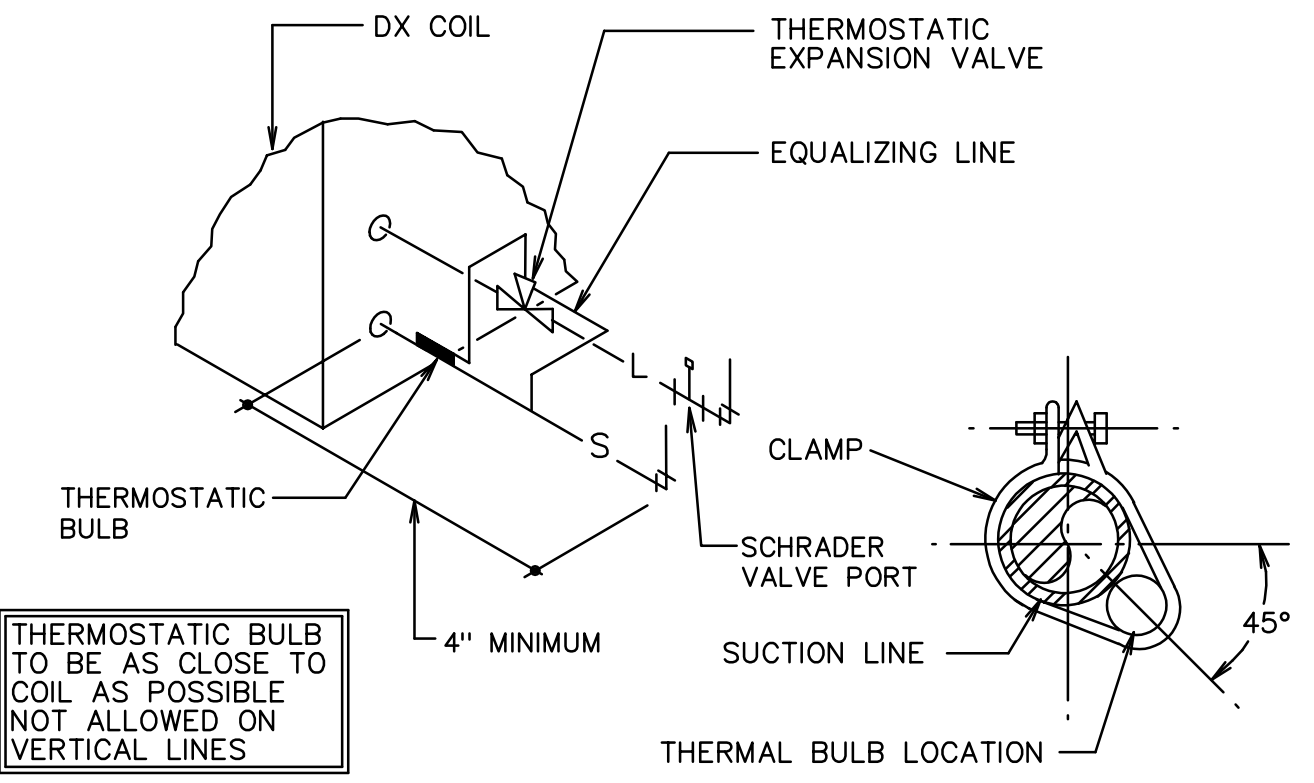
SHEET:
M101



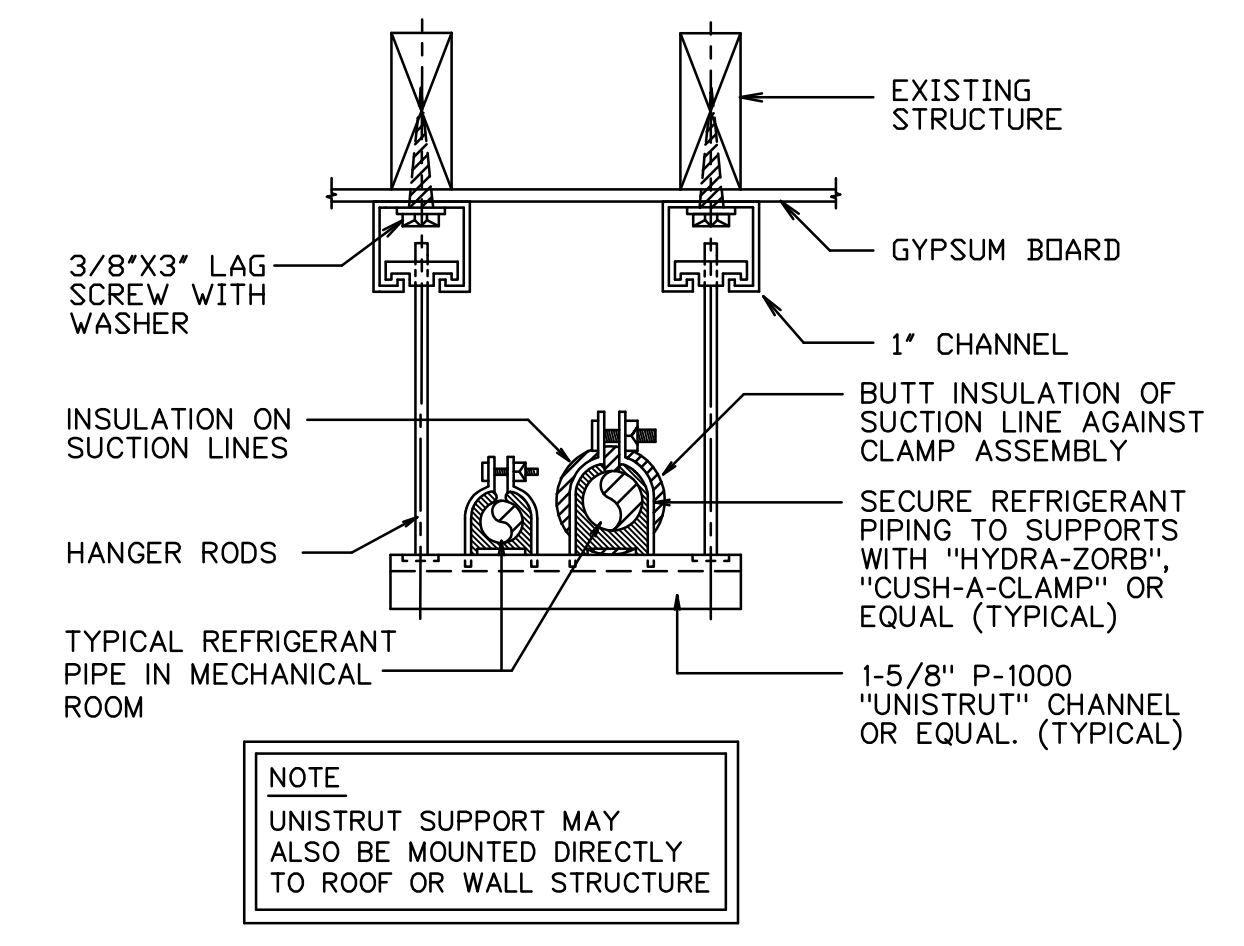
A REFRIGERANT SCHEME
M501 NO SCALE (AH-2: CULTURAL CTR)



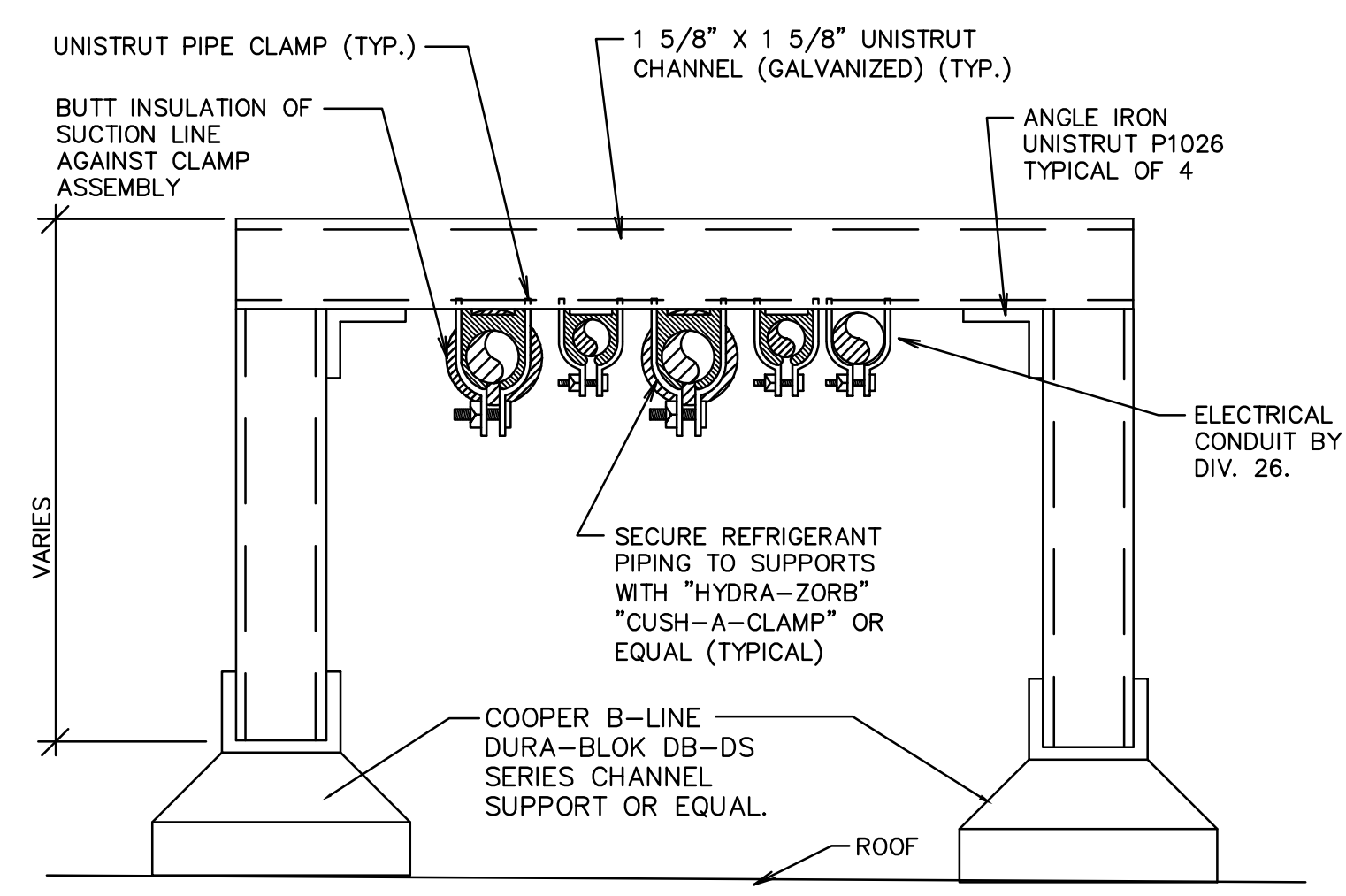
D REFRIGERANT PIPE THROUGH ROOF (SIMILAR)
M501 NO SCALE



B REFRIGERANT COIL CONNECTION DETAIL
M501 NO SCALE



C SUSPENDED REFRIGERANT PIPE SUPPORT
M501 NO SCALE



E ROOF MOUNTED EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL
M501 NO SCALE

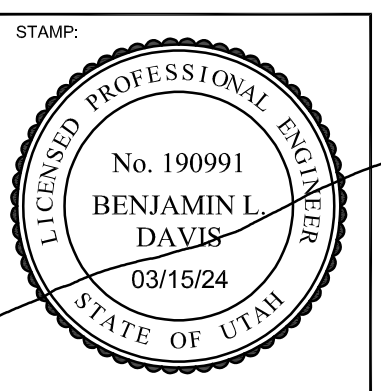
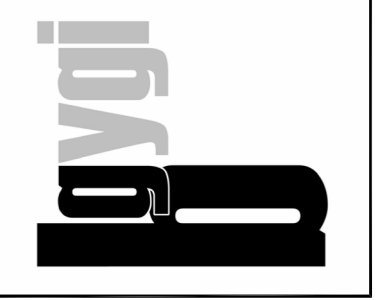
REFRIGERANT PIPING LEGEND

SYMBOL	DESCRIPTION
	EXPANSION VALVE. SEE DETAIL B M501
	MOISTURE INDICATING SIGHT GLASS
	FILTER DRIER
	PIPE SUPPORT. SEE DETAIL C M501
	EXTERIOR PIPE SUPPORT. SEE DETAIL E M501
	TRAP. ONE PIECE FACTORY FABRICATED
	DIRECTION OF SLOPE DOWN
	SUCTION LINE
	LIQUID LINE
	SCHRADER VALVE PORT

REFRIGERANT LINE SIZES

UNIT	LIQUID	SUCTION	REMARKS
	1/2"	1-1/8"	7.5 TON
	1/2"	1-1/8"	7.5 TON

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PO Box 621048 | Salt Lake City, UT 84152
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LOGAN 1.2
LOGAN UT CACHE WEST STAKE
88 SOUTH 200 WEST
LOGAN, UT

PROJECT FOR:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

PROJECT NUMBER: 501735120070101
DATE: 15 MAR 2024
PROPERTY NUMBER: 5017351

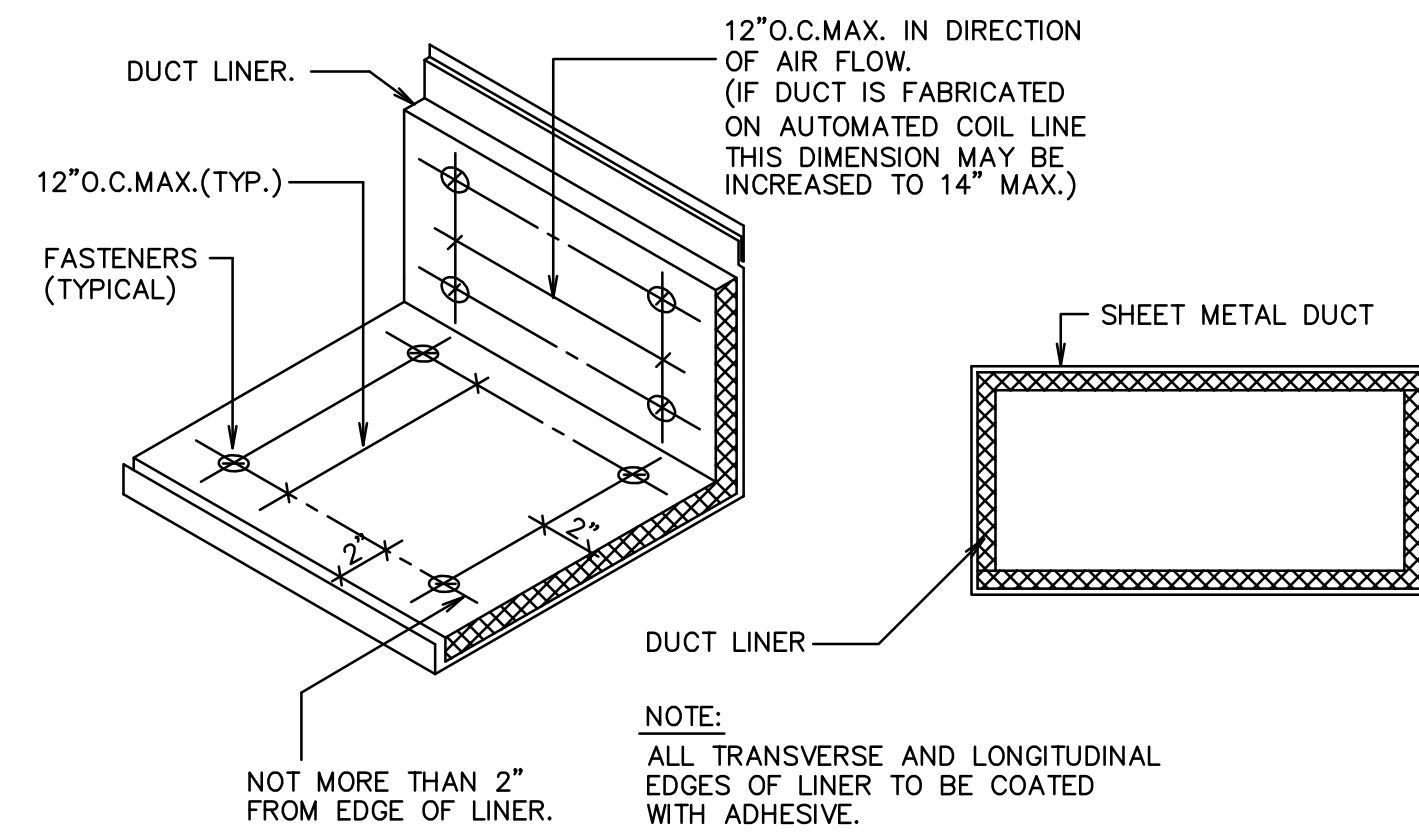
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SHEET TITLE:
REFRIGERANT PIPING DETAILS AND SCHEMATIC

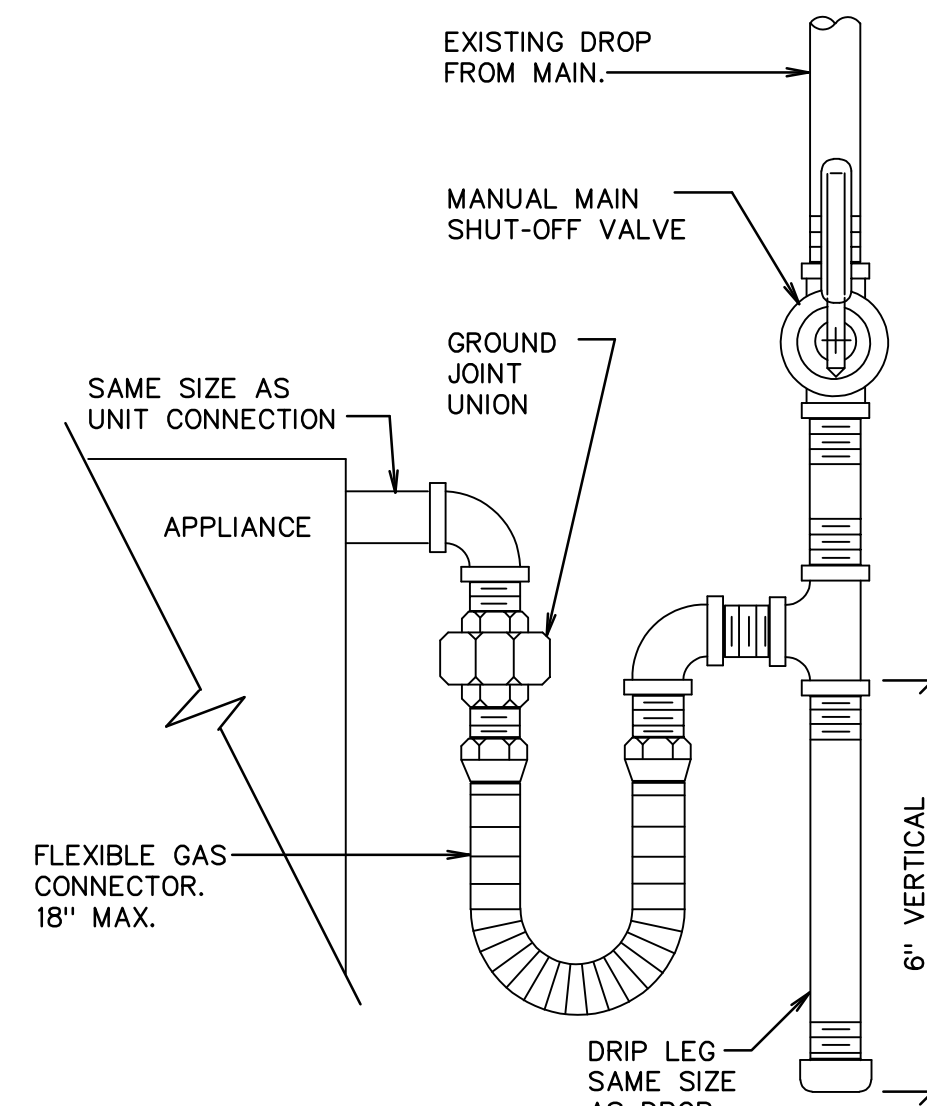
SHEET:
M501

ROOFTOP UNIT SCHEDULE																				
MARK	TYPE	MIN. NOMINAL SIZE (TONS)	MINIMUM A.C.F.M.	TOTAL S.P. IN.W.G.	HEATING CAPACITY		A R I C O O L I N G C A P A C I T Y						F A N		MIN. CIRCUIT AMPS	MOCP	MINIMUM OUTSIDE AIR A.C.F.M.	NAT. GAS CONNECTION SIZE	NOTES	
					INPUT	OUTPUT	AMBIENT	EAT		LAT		MINIMUM H.P.	RPM							
								TOT.MBH	SEN.MBH	DB °F	WB °F			DB °F						WB °F
RTU 1	PACKAGED GAS FIRED	15.0	6000	1.25	144.0	116.8	95	160.0	135.0	80	63	55.1	53.1	3.0	1909	67	80	600	0.75"	1, 2, 3, 4, 5, 6, 7

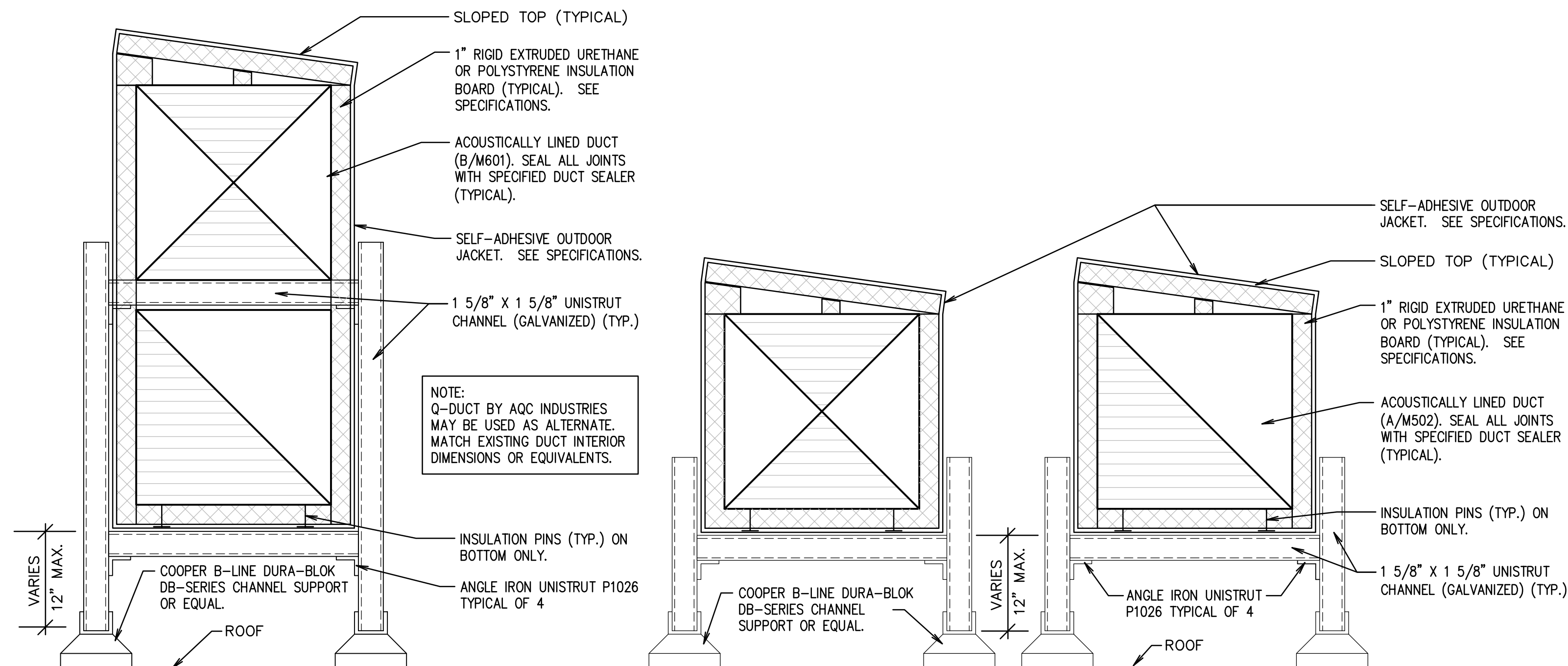
- NOTES:
- CAPACITIES AT PROJECT ELEVATION = 4500 FT.
 - FACTORY INSTALLED LOW LEAKAGE ECONOMIZER WITH BAROMETRIC RELIEF.
 - PROVIDE SUPPLY AND RETURN AIR DUCT SMOKE DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
 - UNIT TO BE CARRIER 48FCM16A2A5, COMPLETE WITH 2-STAGE COOLING, 2-STAGE HEATING, DRY BULB & ENTHALPY ECONOMIZER CONTROLS, AND FACTORY INSTALLED NON-FUSED DISCONNECT SWITCH & GFI SERVICE OUTLET.
 - OPERATING WEIGHT: 1850 LBS.
 - HORIZONTAL SUPPLY / HORIZONTAL RETURN.
 - ELECTRICAL CHARACTERISTICS: 208/230V/3 PHASE/60HZ



B
M601
DUCT LINER DETAIL
NO SCALE



A
M601
GAS LINE CONNECTION DETAIL
NO SCALE



C
M601
EXTERIOR DUCT SUPPORT DETAILS
NO SCALE

EXISTING AIR HANDLING UNIT SCHEDULE										
MARK	MANUFACTURER & MODEL NO.	AREA SERVED	MINIMUM A.C.F.M.	EXT. S.P. IN.W.G.	DX COIL	M O T O R		FAN RPM SPEED	REMARKS	
						H.P.	VOLT/PH			
AH 2	(E) MCQUAY MODEL ?	CULTURAL CENTER	6000	2.5	EXISTING INTEGRAL TO UNIT	7.5	208/3	1760	HORIZ. DRAW-THRU	

- ① EXISTING CONDITIONS.
② AIR HANDLER MARK CORRESPONDS WITH AIR COOLED CONDENSING UNIT MARKS.
③ VERIFY ALL EXISTING CONDITIONS.

AIR-COOLED CONDENSING UNIT SCHEDULE					
MARK	MIN. NOMINAL SIZE (TONS)	MINIMUM CIRCUIT AMPACITY	MOCP	POWER SUPPLY	REMARKS
CU 2a	7.5	35.0	50	③	38AUZE08 ⑤
CU 2b	7.5	35.0	50	③	38AUZE08 ⑤

- ① CONDENSING UNIT MARKS CORRESPOND WITH AIR HANDLER AND FURNACE SYSTEM MARKS.
② AT DESIGN CONDITIONS AND 95°F ENTERING AIR TEMPERATURE TO CONDENSER.
③ ELECTRICAL CHARACTERISTICS-COMPRESSOR: 208V/3 PHASE/60HZ
④ COORDINATE ACTUAL RATING OF UNIT PROVIDED WITH DIVISION 26.
⑤ CARRIER MODEL LISTED. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.

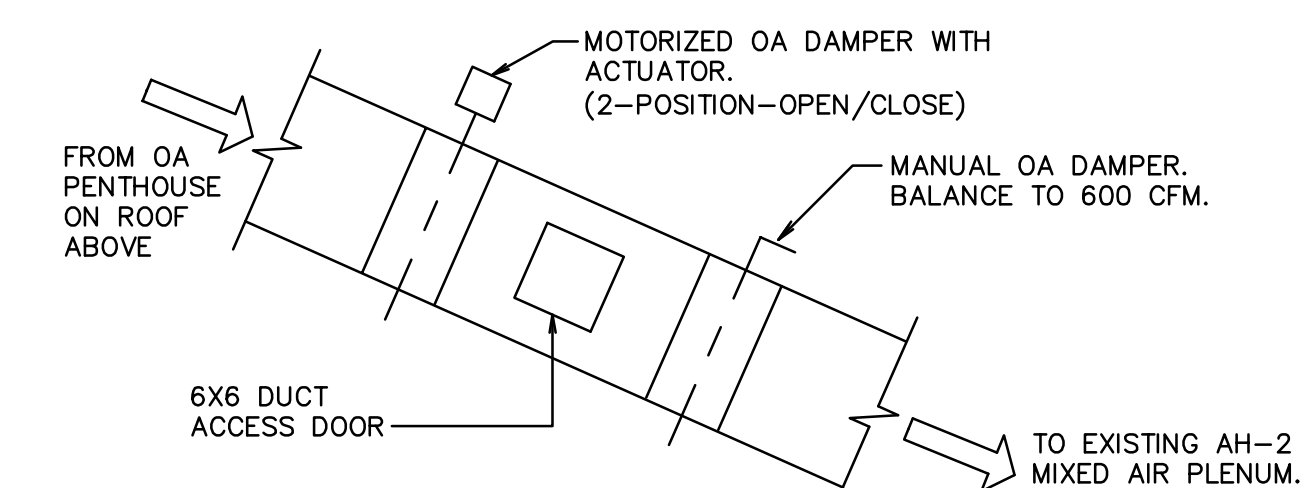
EXHAUST FAN SCHEDULE					
MARK	SERVES ROOM	MIN. S.C.F.M.	STATIC PRESSURE IN. W.G.	MIN. WATTS	REMARKS
EF 1	CLASSROOMS	150	0.25	166W	PROVIDE BACK-DRAFT DAMPER

- ① SET BALANCE DAMPERS TO CFM LISTED
② CONTROL: 0-30 MINUTE TIMER SWITCH BY DIVISION 26.
③ VOLTAGE IS 115/1PHASE/60

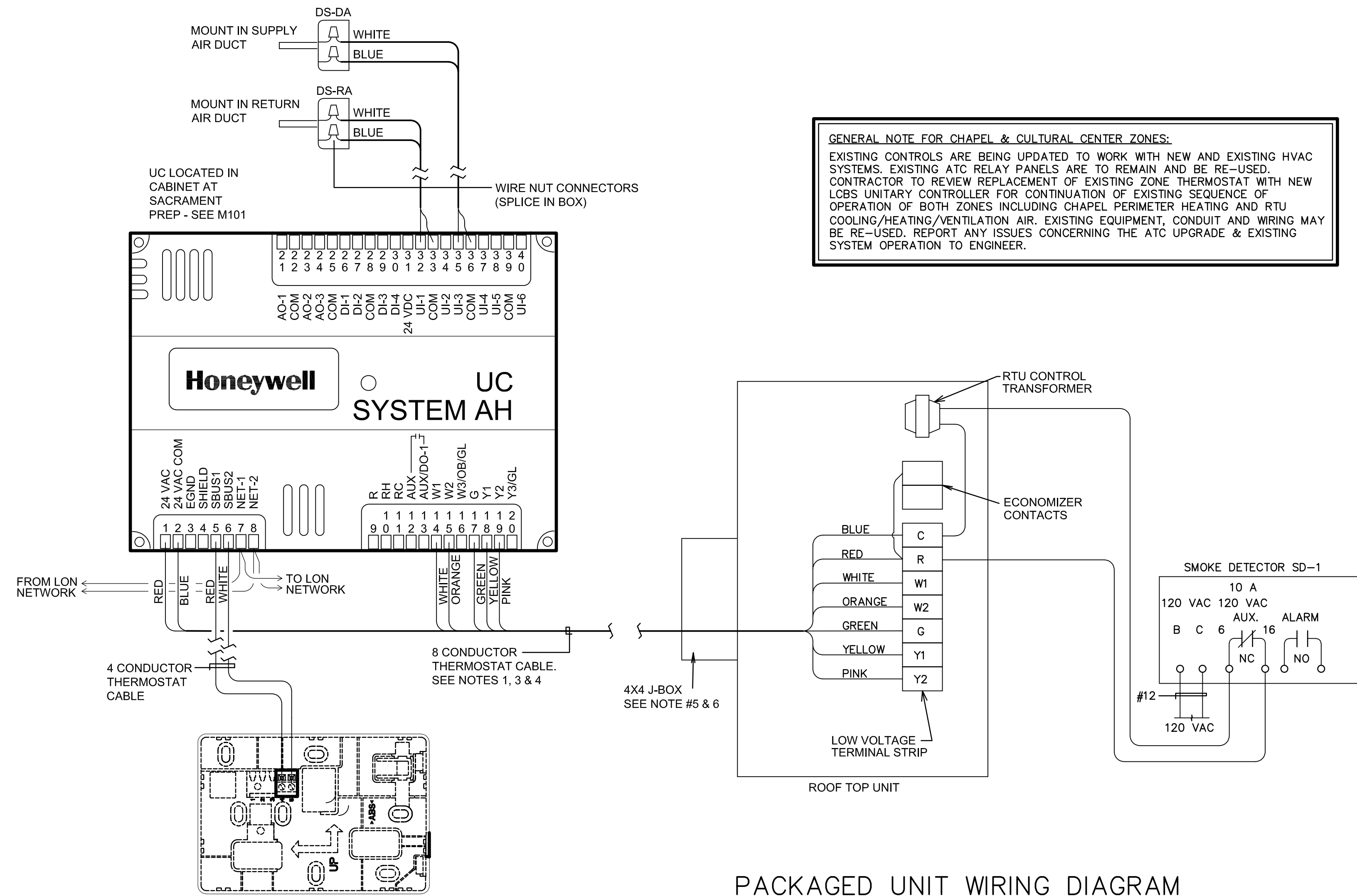
PENTHOUSE / ROOF VENT SCHEDULE					
MARK	TYPE	SERVICE	CFM RANGE	NOMINAL SIZE	REMARKS
PH-1	PENTHOUSE	OUTSIDE AIR	600	14X14	② ③
PH-2	PENTHOUSE	EXHAUST AIR	750	14X14	② ③
RV-1	ROOF VENT	ROOF VENTILATION	NA	20"	② ③

- ① SEE SPECIFICATION FOR APPROVED MANUFACTURER.
② PROVIDE ALUMINUM BIRD OR INSECT SCREENS. REFER TO SPECIFICATIONS.
③ ALUMINUM FINISH.

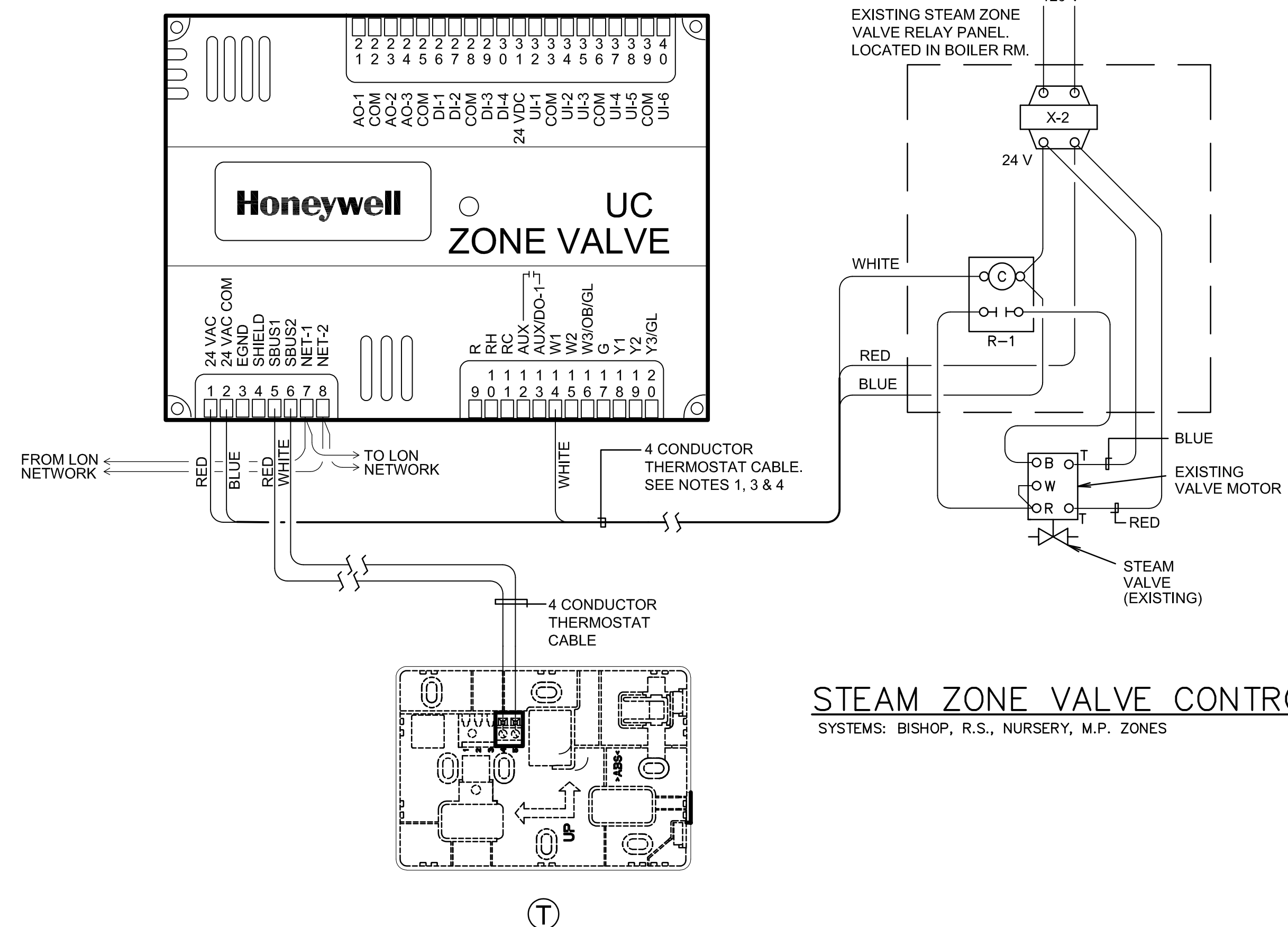
- NOTES:
1- THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT & CONTROLS. MOTOR NAME PLATE VOLTAGE SHALL BE NEMA STANDARD 200 VOLT FOR 208 VOLT THREE PHASE SYSTEM AND SHALL BE NEMA STANDARD 230 VOLT FOR 240 VOLT THREE PHASE OR SINGLE PHASE SYSTEM. STARTER HEATERS INSTALLED SHALL BE COORDINATED WITH THE NAME PLATE DATA.
2- S.C.F.M. LISTED IS STANDARD AIR. A.C.F.M. IS ACTUAL SITE CFM.



D
M601
OUTSIDE AIR DUCT DETAIL
NO SCALE



PACKAGED UNIT WIRING DIAGRAM
 SYSTEMS: RTU-1



STEAM ZONE VALVE CONTROL DIAGRAM
 SYSTEMS: BISHOP, R.S., NURSERY, M.P. ZONES

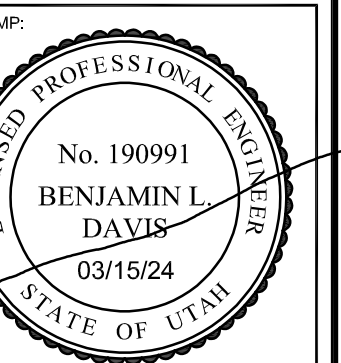
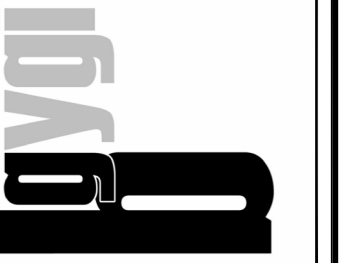
CONTROL EQUIPMENT					
MARK	DESCRIPTION	CAT. NO. (1)	MARK	DESCRIPTION	CAT. NO. (1)
BMG	BUILDING MANAGEMENT GATEWAY	LGW1000 (GATEWAY) WPM-8000 (WALL PLUG)	RP-1	RELAY PANEL (EXISTING)	
UC	UNITARY CONTROLLER	YCR164385R1000			
T	THERMOSTAT WALL MODULE	THP2400A1027W	DM-1	DAMPER MOTOR TWO POSITION	MSB105A1030
	THERMOSTAT COVER PLATE ASSEMBLY	50002883-001	X-1	TRANSFORMER 120, 208, 240V/24V 75VA	AT175F1023
S	REMOTE SENSOR	TR40	X-2	TRANSFORMER 120, 208, 240V/24V 50VA	AT150F1022
DS	DUCT AIR SENSOR	C7041B2005	RIB	TWO POLE RELAY	RIBU1C (2)
CO ₂	CO ₂ SENSOR DUCT MOUNTED (3)	C7232B1006	SD-1	DUCT SMOKE DETECTOR	(2)
EBUS	ECHOLON NETWORK CABLE	W221P-2001B	SR	SMOKE RELAY 30 AMP 120V COIL	DP2030B5003 (4)
G-1	THERMOSTAT GUARD	(2) (5)			

- (1) ALL CATALOG NUMBERS SHOWN ARE HONEYWELL UNLESS NOTED OTHERWISE.
- (2) SEE SPECIFICATIONS
- (3) MOUNT CO₂ SENSOR IN MAIN RETURN AIR DUCT, PRIOR TO OA CONNECTION.
- (4) PROVIDE ENCLOSURE
- (5) PROVIDE GUARD AT THERMOSTAT WALL MODULE LOCATED IN CULTURAL CENTER.

NOTES:

1. THERMOSTAT CABLE- 4, 8 OR 12 CONDUCTOR- 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE. CONDUCTORS PARALLEL. ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
2. IF COMPRESSOR UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN COMPRESSOR UNIT TO PROPERLY INTERFACE CONTROLS.
3. USE WIRE NUT CONNECTORS FOR SPLICING CONDUCTORS IN SPECIFIED LOCATIONS, AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT OR SENSOR.
4. DO NOT RUN ANY OTHER WIRING IN THIS CONDUIT EXCEPT THERMOSTAT CABLE.
5. VERIFY THAT FAN UNIT FAN SPEED CONTROL WIRING IS SET TO MATCH SCHEDULE SHEET AND THAT FAN OPERATES AT COOLING SPEED ONLY.
6. DO NOT SPLICE WIRE IN RUNS FROM SENSOR TO THERMOSTAT, THERMOSTAT TO FURNACE, AND THERMOSTAT TO DISCHARGE AIR SENSOR.
7. PROVIDE CHASE NIPPLE W/PLASTIC BUSHING WHEN ATTACHING J-BOX TO EQUIPMENT.
8. PROVIDE CABLE CLAMP SO THAT CABLES CANNOT BE PULLED OUT OF J-BOX.
9. CONTROLS ARE NEW UNLESS NOTED OTHERWISE. EXISTING WIRING AND CONDUIT MEETING REQUIREMENTS MAY BE REUSED, OTHERWISE PROVIDE NEW.

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PROJECT FOR:
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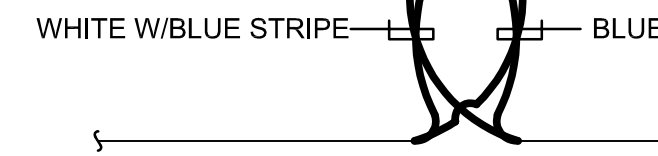
PROJECT NUMBER:
 501735120070101
 DATE:
 15 MAR 2024
 PROPERTY NUMBER:
 5017351

DRAWN BY:
 JTA
 CHECKED:
 JTA

SHEET TITLE:
AUTOMATIC TEMPERATURE CONTROLS

SHEET:
ME701

TWIST WIRE TOGETHER AND MOUNT UNDER "EB" TERMINAL SCREW.

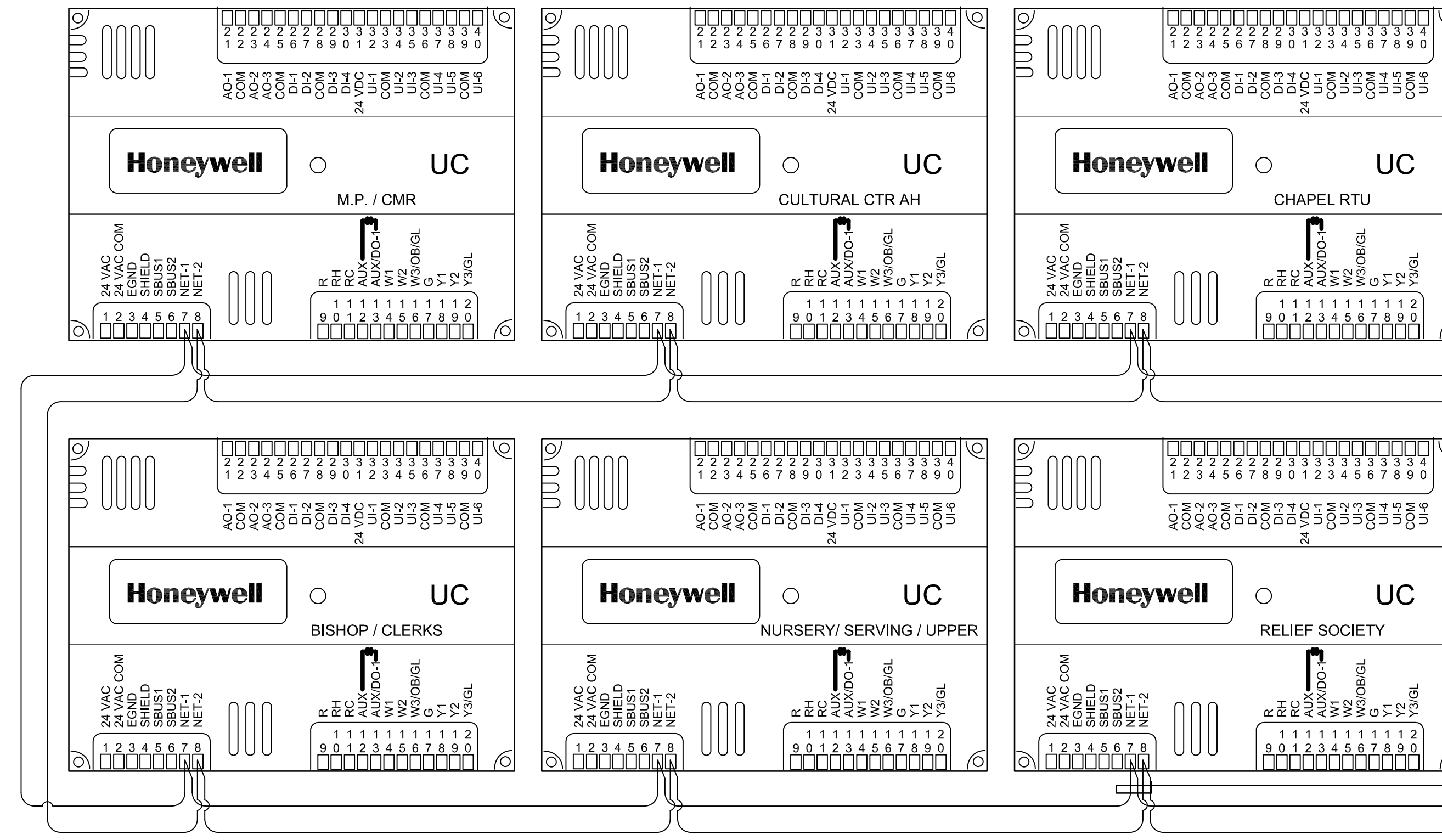
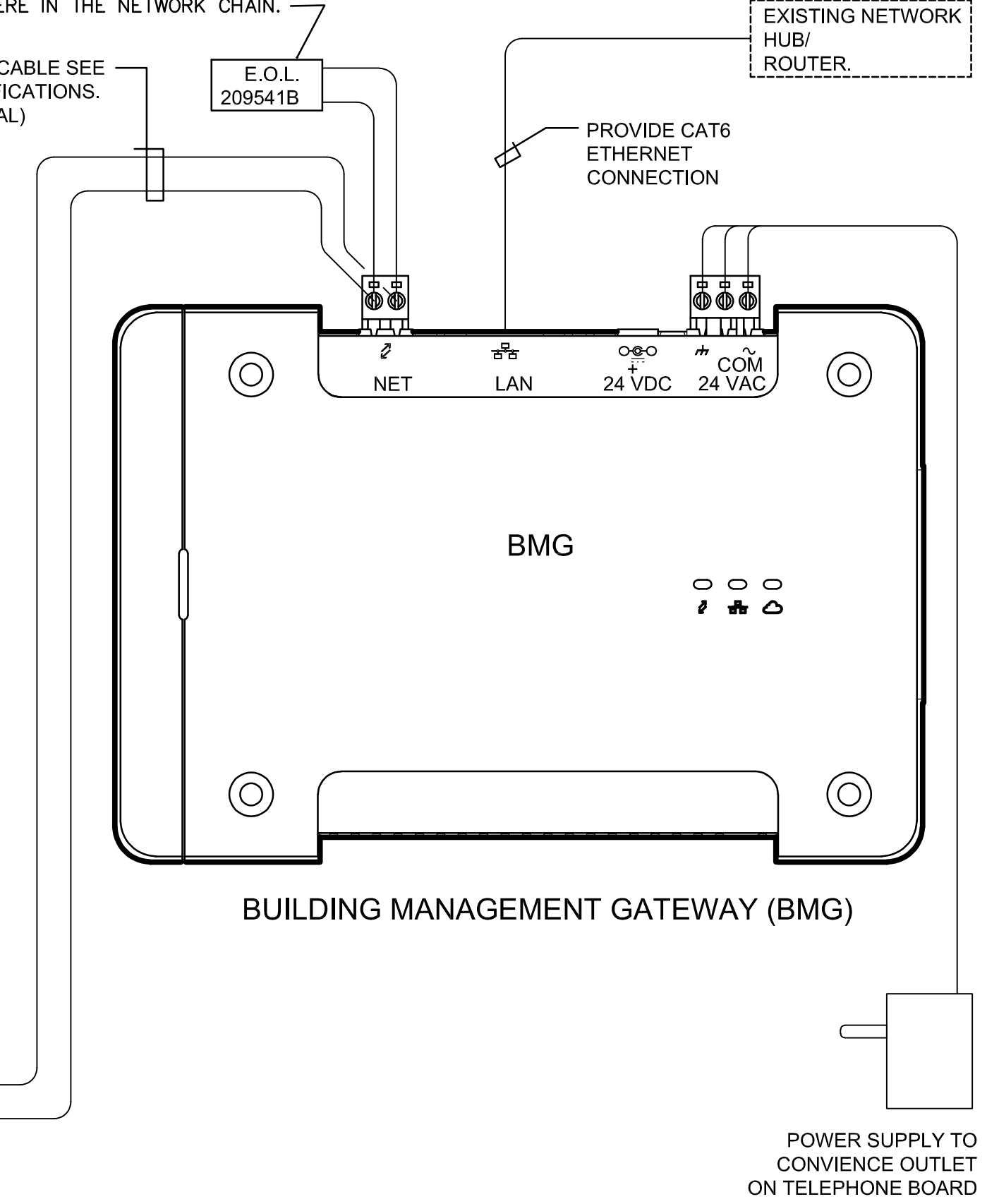


E-BUS CONNECTION DETAIL

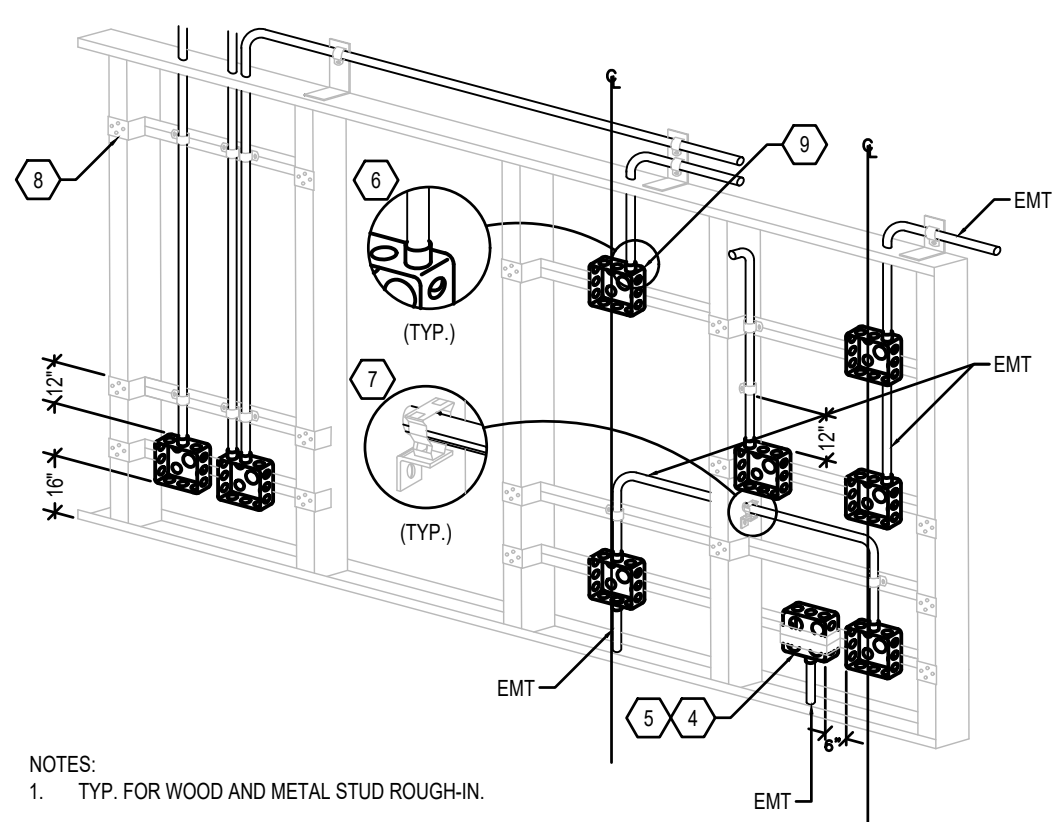
NO SCALE

THE E.O.L. IS FOR THE TWO ENDS OF THE ECHELON NETWORK. THE BMG IS NOT REQUIRED TO BE AT THE END OF THE NETWORK; THE BMG CAN RESIDE ANYWHERE IN THE NETWORK CHAIN.

E-BUS CABLE SEE SPECIFICATIONS. (TYPICAL)

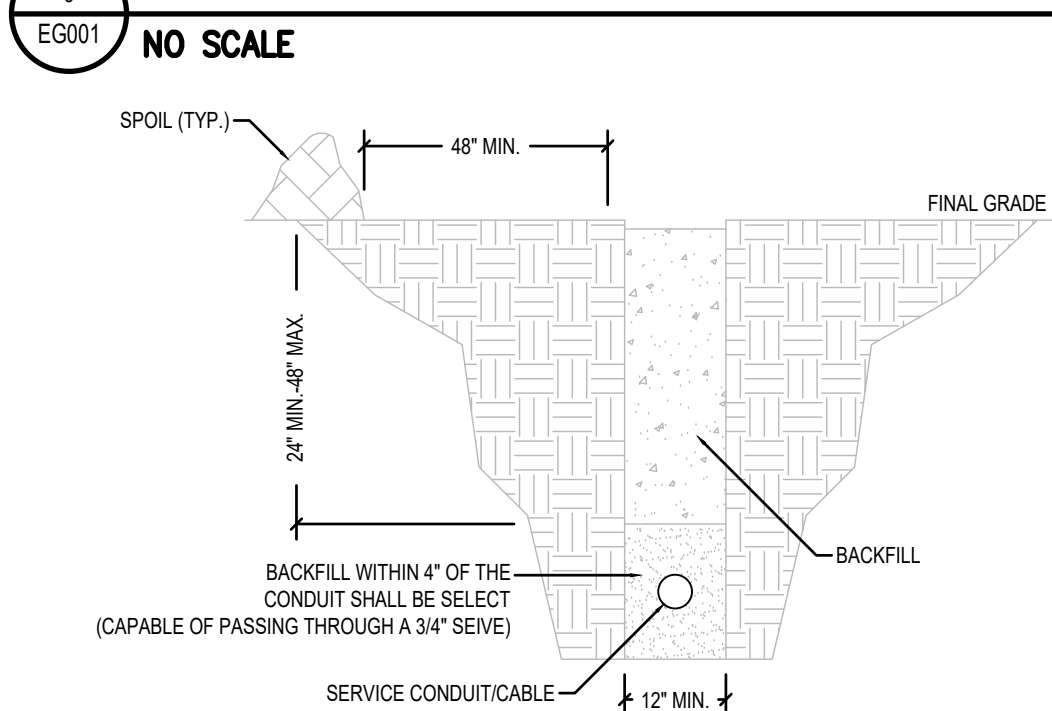


SEE DETAIL (A) THIS SHEET (TYPICAL)



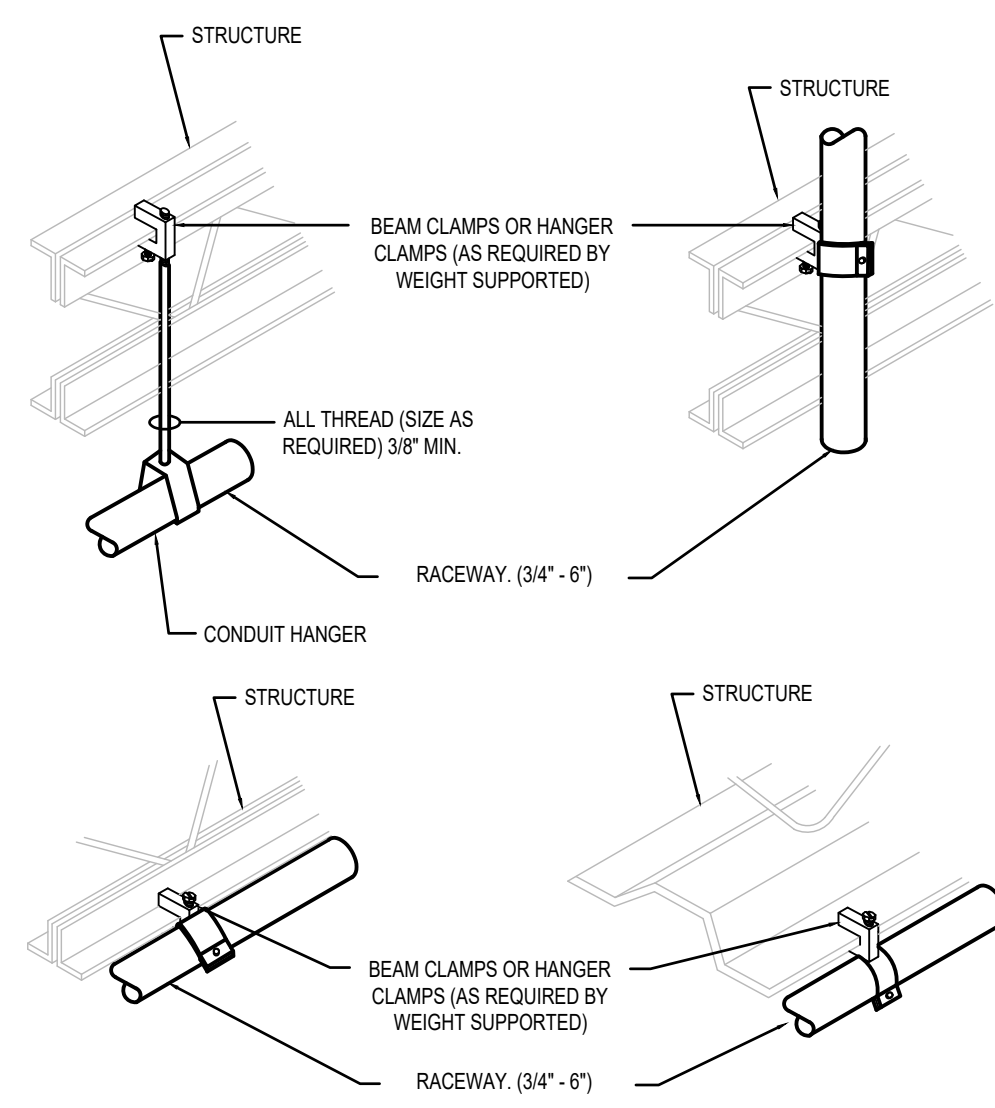
- NOTES:
1. TYP. FOR WOOD AND METAL STUD ROUGH-IN.
 2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINISHED SURFACE, UNLESS NOTED OTHERWISE.
 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
 4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
 5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH IBC 714.3.2.
 6. INSULATED THROAT EMT CONNECTOR.
 7. CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT FB12P.
 8. ADJUSTABLE BAR HANGER.
 9. TYPICAL DEVICE JUNCTION BOX.

3 TYPICAL ROUGH-IN DETAIL



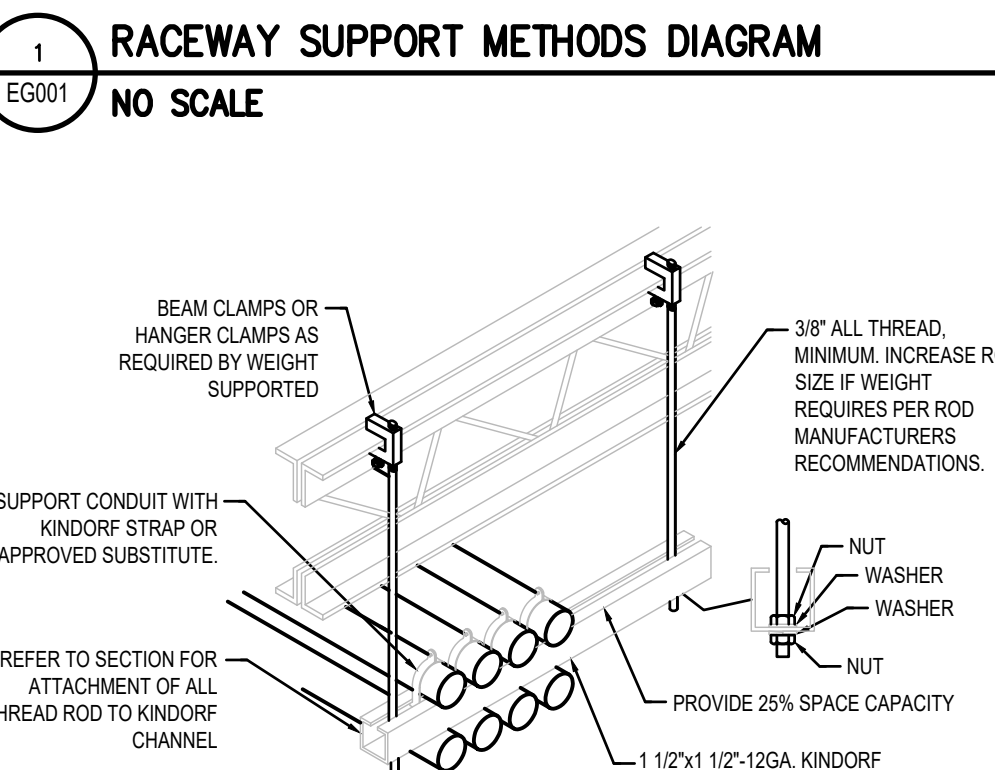
4 SERVICE TRENCH (POWER ONLY)

NO SCALE



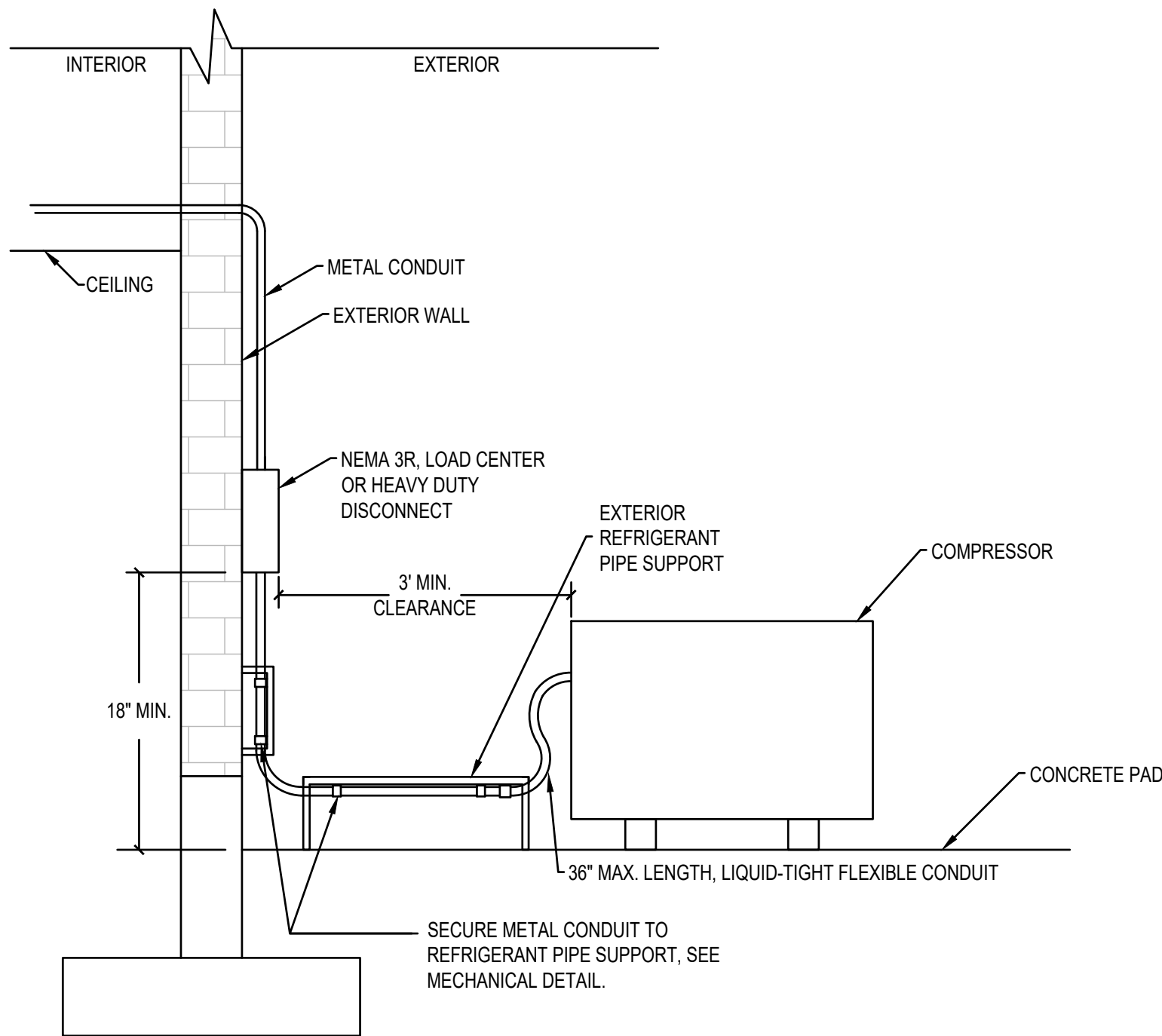
1 RACEWAY SUPPORT METHODS DIAGRAM

NO SCALE



2 TRAPEZE SUPPORT DETAIL

NO SCALE



5 EXTERIOR COMPRESSOR/DISCONNECT DETAIL (TYP.)

NO SCALE

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
(S) (D) (Q)	(S) SIMPLEX (D) DUPLEX (Q) QUADPLEX OR DOUBLE DUPLEX		
⊕ ⊕ ⊕	STANDARD CONVENIENCE OUTLET	18"	
⊕ ⊕ ⊕	CONVENIENCE OUTLET, GFCI	18"	
⊕	VARIABLE FREQUENCY DRIVE		
⊕	JUNCTION BOX	AS NOTED	(12)
⊕	MANUAL SWITCH WITH THERMAL OVERLOAD		
⊕	FUSED DISCONNECT SWITCH		(13) (14)
⊕	MAGNETIC STARTER		(13) (14)
⊕	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)
⊕	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
⊕	MOTOR OUTLET		
⊕	TRANSFORMER	SEE PLANS	
⊕	PANEL BOARD, SURFACE	6'-6" TO TOP	(15)
⊕	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)
⊕	DUCT SMOKE DETECTOR	SEE MECH.	(8)
⊕	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		
⊕	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
⊕	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
⊕	LUMINAIRE TYPE		
⊕	DIAGRAM/DETAIL CALLOUT		
⊕	CONDUIT RUN CONCEALED IN WALL OR CEILING		
⊕	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
⊕	SURFACE RACEWAY/WIREMOLD		
⊕	LOW VOLTAGE CONDUIT RUN		
⊕	DEMOLITION		
⊕	EXISTING		
⊕	HOME RUN TO PANEL		
⊕	CONDUIT STUB		
⊕	CONDUIT BREAK/CONTINUATION		
⊕	CONDUIT STUB DOWN		
⊕	CONDUIT STUB UP		
⊕	FUSE		
⊕	GROUND/GROUND ROD		
⊕	CIRCUIT BREAKER		

ABBREVIATIONS

A	AMPS	ENT	ELEC. NON-METAL TUBING	NL	NIGHT LIGHT BYPASS
AFC	AVAILABLE FAULT CURRENT	EX	EXISTING TO BE RELOCATED	PC	LOCAL SWITCHING
AFF	ABOVE FINISHED FLOOR	EX	EXISTING TO REMAIN	PC	PLUMBING CONTRACTOR
AFG	ABOVE FINISHED GRADE	FMC	FLEXIBLE METAL CONDUIT	POC	POINT OF CONNECTION
AIC	AMPS INTERR. CAPACITY	GC	GENERAL CONTRACTOR	POS	POINT OF SALE
AWG	AMERICAN WIRE GAUGE	GEC	GRND. ELEC. COND. AT SES	R	RELOCATE
BC	BARE COPPER	GFCI	GRND. FLT. CURR. INTERR.	RM	ROOF MOUNTED
BFC	BELOW FINISHED CEILING	GND	GROUND	RMC	RIGID METALLIC CONDUIT
BFG	BELOW FINISHED GRADE	INT	INTER. METAL CONDUIT	RNC	RIGID NON-METALLIC COND.
C	CONDUIT	IG	ISOLATED GROUND	SBJ	SYSTEM BONDING JUMPER
CND	CONDUIT ONLY	KCMIL	1000 CIRCULAR MILS (MCM)	SCA	SHORT CIRCUIT AMPERES
CO	CURRENT TRANSDUCER	LPMC	LIQUID-TIGHT FLEX.	T	TRANSFORMER
CJ	COPPER MATERIAL	LWNC	LIQUID-TIGHT FLEX. METAL COND.	TC	TEMP. CONTROL CONTR.
DED	DEDICATED	UNO	UNDERGROUND	UNO	UNLESS NOTED OTHERWISE
DFA	DROP FROM ABOVE	MC	MECHANICAL CONTRACTOR	VA	VOLTS/AMPS
EC	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	VIF	VERIFY IN FIELD
EF	EXHAUST FAN	NI	NEMA 1	WP	WEATHERPROOF/NEMA 3R
EM	EMER/EGRESS BATTERY	NSR	NEMA 3R	XP	EXPLOSION PROOF
EMT	ELEC. METALLIC TUBING	N	NEW	XR	EXISTING TO BE REMOVED

- NOTES**
- (1) SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS.
 - (2) SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.
 - (3) WIRE LIGHT FIXTURE FROM ADJACENT BOX
 - (4) CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST
 - (5) DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS.
 - (6) COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS
 - (7) USE WITH POWER PACK
 - (8) "X" IN SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS.
 - (9) PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL SYSTEM.
 - (10) MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT.
 - (11) USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INSTALLATION.
 - (12) PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED.
 - (13) USE HEAVY DUTY DEVICE FOR 480 VOLT.
 - (14) SIZE TO THE EQUIPMENT BEING CONTROLLED
 - (15) FIRE ALARM PANELS: FACP: FIRE ALARM CONTROL PANEL, NAC: NOTIFICATION APPLIANCE PANEL, ANNUN. GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUATION SYSTEM PANEL.
 - (16) LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.

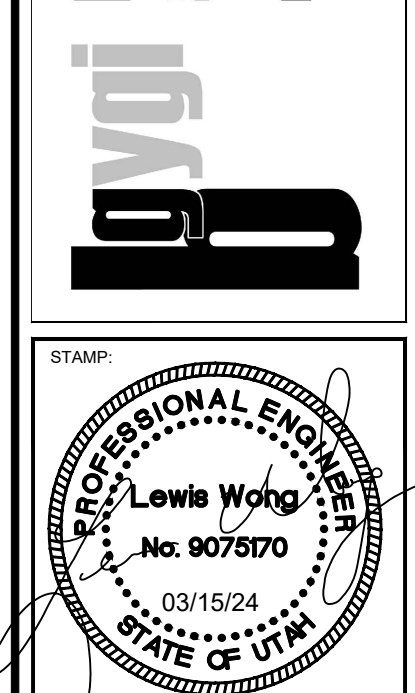
GENERAL NOTES

1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERRORS, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.
2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
3. NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
5. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
6. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
7. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELE/DATA ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELE/DATA CABLING.
9. THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
10. THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
11. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
13. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.
14. MINIMUM SIZE CONDUIT SHALL BE 3/4" ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
15. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEALTITE CONDUIT SHALL NOT BE GREATER THAN 72" INCHES.
16. WIRING DEVICES SHALL MATCH EXISTING COLOR AND FACEPLATE TYPE.
17. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION. ANY DEVICE BOXES NOT SECURED WILL BE MADE SECURE AT THE CONTRACTORS EXPENSE.
18. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
19. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR). THE UNCOVERING AND REPLACEMENT OF ELECTRICAL WORK FOR THE INSPECTION PURPOSES WILL BE AT THE COST OF THE ELECTRICAL CONTRACTOR.
20. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120V OR 277V AC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12(CU) THHN+1#12(CU) THHN(BND) IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10(CU) THHN FOR 120V AC BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
21. CONDUCTORS SHALL BE COPPER, 800V RATED, TYPE THHN/THWN-2 UNLESS OTHERWISE NOTED. CONDUCTORS SIZES UP TO #10AWG SHALL BE SOLID AND #8AWG AND LARGER SHALL BE STRANDED.
22. METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC. UNLESS OTHERWISE REQUIRED BY THE NEC. MC CABLE SHALL NOT BE INSTALLED EXPOSED EXCEPT IN ATTIC SPACES 3 FEET AWAY FROM ANY WALKABLE SURFACE.
23. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER.
24. THE ELECTRICAL CONTRACTOR SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
25. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
26. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS.
27. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITH WALLS/CEILING. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
28. PROVIDE AN UPDATED, TYPED PANEL CIRCUIT DIRECTORY FOR ALL PANELS WHERE CIRCUITS HAVE BEEN MODIFIED, ADDED, OR REMOVED BY THE SCOPE OF THIS PROJECT. CIRCUIT DESCRIPTIONS ON THE DIRECTORY SHALL BE UNIQUE AND INDICATE THE ROOM AND EQUIPMENT/DEVICE IT IS FEEDING. DIRECTORY SHALL INCLUDE CONTRACTOR CONTACT INFORMATION AND DATE OF PROJECT COMPLETION.
29. LABEL MECHANICAL EQUIPMENT IDENTIFYING PANEL AND CIRCUIT NUMBER USE TO FEED IT. USE 1/16" INCH THICK LAMINATED PLASTIC COMPOSITION MATERIAL WITH CONTRASTING COLOR CORE. ENGRAVED LETTERS SHALL BE 1/4" INCH HIGH. ATTACH LABELS WITH SCREWS.

Sheet List Table

Sheet Number	Sheet Title
EG001	ELECTRICAL GENERAL
EG001	ELECTRICAL SCHEDULES
EG070	ELECTRICAL ONE-LINE DIAGRAM
ED101	ELECTRICAL DEMO PLAN
ED121	ELECTRICAL DEMO PLAN
EP101	ELECTRICAL POWER PLAN
EP121	ELECTRICAL POWER PLAN

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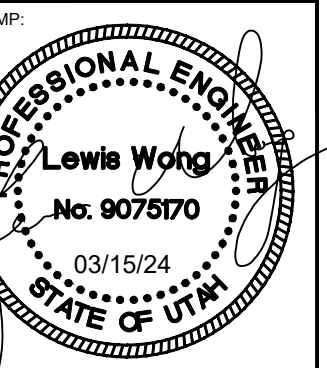
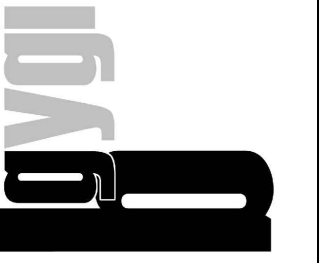
PROJECT FOR:
 LOGAN 1/2
 LOGAN UT CACHE WEST STAKE
 88 SOUTH 200 WEST
 LOGAN, UT

PROJECT FOR:
 THE CHURCH OF
 JESUS CHRIST
 OF LATTER-DAY SAINTS

PROJECT NUMBER: 501735120070101	
DATE: 15 MAR 2024	
PROPERTY NUMBER: 5017351	
DRAWN BY:	CHECKED:

SHEET TITLE:
ELECTRICAL GENERAL

SHEET:
EG001



LOGAN 1.2
 LOGAN UT CACHE WEST STAKE
 88 SOUTH 200 WEST
 LOGAN, UT

PROJECT FOR:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

PROJECT NUMBER:
 501735120070101
 DATE:
 15 MAR 2024
 PROPERTY NUMBER:
 5017351

DRAWN BY: _____ CHECKED: _____

SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET:
EG601

EQUIPMENT SCHEDULE																
TYPE	DESCRIPTION	ELECTRICAL								OVER CURRENT PROTECTION				STR	REMARKS	
		VOLT	PHASE	LOAD	FLA	SETS	QTY	SIZE	GND	SIZE	MOCP	TYPE	DISCONNECT			FUSE
RTU - 1	ROOF-TOP UNIT	208	3	67.00 MCA	53.6	1	3	4	8	1	80	C1	-	-	-	14 B
CU - 2a	CONDENSING UNIT	208	3	35.00 MCA	28.0	1	3	8	10	3/4	50	C1	-	-	-	
CU - 2b	CONDENSING UNIT	208	3	35.00 MCA	28.0	1	3	8	10	3/4	50	C1	-	-	-	
EF - 1	EXHAUST FAN	120	1	166.00 W	1.4	1	2	12	12	3/4	20	C1	-	-	-	4 A

ABBREVIATIONS:
 KW = KILOWATTS
 VPH = VOLTAGE/PHASE
 HP = HORSEPOWER
 W = WATTS
 VA = VOLT AMPERES
 KVA = KILOVOLT AMPERES
 FLA = FULL LOAD AMPERES
 MCA = MINIMUM CIRCUIT AMPACITY
 DISC = DISCONNECT
 GND = GROUND
 STR = STARTER
 PL = POLE
 OCPD = OVERCURRENT PROTECTIVE DEVICE
 CONDUIT = CONDUIT
 MOCP = MAXIMUM OCPD (LISTED BY THE MANUFACTURER)

REMARKS:
 1. NEMA 1 FUSED DISCONNECT SWITCH
 2. NEMA 1 NON-FUSED DISCONNECT SWITCH
 3. BREAKER IN ENCLOSURE
 4. MANUAL STARTER WITH THERMAL OVERLOAD
 5. MANUAL MOTOR CONTROLLER W/OUT THERMAL OVERLOAD
 6. MAGNETIC STARTER
 7. MAGNETIC STR/NON-FUSED DISCONNECT COMBINATION
 8. MAGNETIC STR/FUSED DISCONNECT COMBINATION
 9. NEMA 3R FUSED DISCONNECT SWITCH
 10. NEMA 3R NON-FUSED DISCONNECT SWITCH
 11. VARIABLE FREQUENCY DRIVE
 12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
 13. DIRECT CONNECTION
 14. DUCT DETECTOR IN SUPPLY AND RETURN AIR TO SHUT DOWN UNIT UPON DETECTION OF SMOKE.
 15. CONTROLLED WITH LIGHTS
 16. LIM-EB DISCONNECT W/CONTRL WIRING TO VFD
 17. SPLIT SYSTEM, INDOOR UNIT FED FROM OUTDOOR UNIT.

GENERAL NOTE: THE EC SHALL COORDINATE ALL REQUIREMENTS (E. MOCP SIZE, UNIT THERMAL PROTECTION, ETC) WITH APPROVED MECHANICAL SHOP DRAWINGS/SUBMITTALS AND BRING UP ANY DISCREPANCIES WITH THE ELECTRICAL ENGINEER OF RECORD IN WRITING PRIOR TO ROUGH-IN AND ORDERING OF MATERIALS.

NAME: LC1	VOLTAGE: 208 / 120	MOUNTING: SURFACE FEED	MAINS: LUGS ONLY	DIMS: 20" W, 5.75" D	SPECIAL EQUIPMENT: GROUND BUS, SUB-FEED BREAKER, SUB-FEED LUGS, NEMA 3R SURGE PROTECTOR
TYPE: NQ	PH 3 WIRES 4	FEED FROM: BOTTOM	BUS RATING: 150 AMPS	18 SPACES	
LOCATION: ROOFTOP	AIC 10K AMPS	M			

DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P AMP	WIRE SIZE	VA LOAD	PHASE VA	VA LOAD	WIRE SIZE	BRKR AMP	P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
L	1	RTU-1		3	80	4	6437	9799	3362	8	50	3	CU-2a	2	M
L	3						6437	9799	3362					4	M
L	5						6437	9799	3362					6	M
R	7	CONV RCPT		1	20	12	180	3542	3362	8	50	3	CU-2b	8	M
	9	SPACE							3362					10	M
	11	SPACE							3362					12	M
	13	SPACE												14	M
	15	SPACE												16	M
	17	SPACE												18	M

DIVERSITY FACTORS (DF):
 C=CONTINUOUS
 N=NON-CONTINUOUS
 R=RECEPTACLES
 K=KITCHEN EQUIPMENT
 M=MOTOR
 L=LARGEST MOTOR
 O=OTHER

CONNECTED VA: 13341
 CONNECTED AMPS: 111

PHASE VA: 13161 A, 13161 B, 13161 C
 VA LOAD: 110 A, 110 B, 110 C
 KVA: 39.7

DIVERSIFIED VA: 44 KVA
 DIVERSIFIED AMPS: 123 A

CODES:
 1=SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE
 2=SHUNT-TRIP BREAKER
 3=GFCI BREAKER
 4=PROVIDE LOCK OFF DEVICE

NOTES:
 THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

NAME: P(EX)	VOLTAGE: 208 / 120	MOUNTING: SURFACE FEED	MAINS: LUGS ONLY	DIMS: 20" W, 5.75" D	SPECIAL EQUIPMENT: GROUND BUS, SUB-FEED BREAKER, SUB-FEED LUGS, NEMA 3R SURGE PROTECTOR
TYPE: NQ	PH 3 WIRES 4	FEED FROM: BOTTOM	BUS RATING: 225 AMPS	42 SPACES	
LOCATION: BOILER ROOM	AIC	M			

DF	CKT #	CIRCUIT DESCRIPTION	CODE	BRKR P AMP	WIRE SIZE	VA LOAD	PHASE VA	VA LOAD	WIRE SIZE	BRKR AMP	P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
	1	EXISTING CIRCUIT		2	0	12	0	0		50	3		SPACE	2	
	3						0	0						4	
	5	EXISTING CIRCUIT		1	0	12		0						6	
	7	EXISTING CIRCUIT		1	0	12	0			50	3		SPACE	8	
	9	EXISTING CIRCUIT		1	0	12		0						10	
	11	EXISTING CIRCUIT		1	0	12		0						12	
	13	EXISTING CIRCUIT		1	0	12	0			12	20	1	EXISTING CIRCUIT	14	
	15	EXISTING CIRCUIT		1	0	12		0		12	20	1	EXISTING CIRCUIT	16	
	17	EXISTING CIRCUIT		1	0	12		0		12	20	2	EXISTING CIRCUIT	18	
	19	EXISTING CIRCUIT		1	0	12	0							20	
	21	EXISTING CIRCUIT		1	0	12		0		12	20	1	EXISTING CIRCUIT	22	
	23	EXISTING CIRCUIT		1	0	12		0		12	20	1	EXISTING CIRCUIT	24	
	25	EXISTING CIRCUIT		2	0	12	0			12	20	1	EXISTING CIRCUIT	26	
	27						830			830	12	20	1	EXHAUST FANS	28 M
	29	SPACE						0						30	
	31	SPACE						0						32	
	33	SPACE						0						34	
	35	SPACE						0						36	
	37	SPACE						0						38	
	39	SPACE						0						40	
	41	SPACE						0						42	

DIVERSITY FACTORS (DF):
 C=CONTINUOUS
 N=NON-CONTINUOUS
 R=RECEPTACLES
 K=KITCHEN EQUIPMENT
 M=MOTOR
 L=LARGEST MOTOR
 O=OTHER

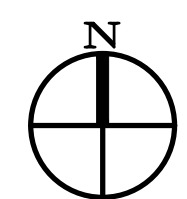
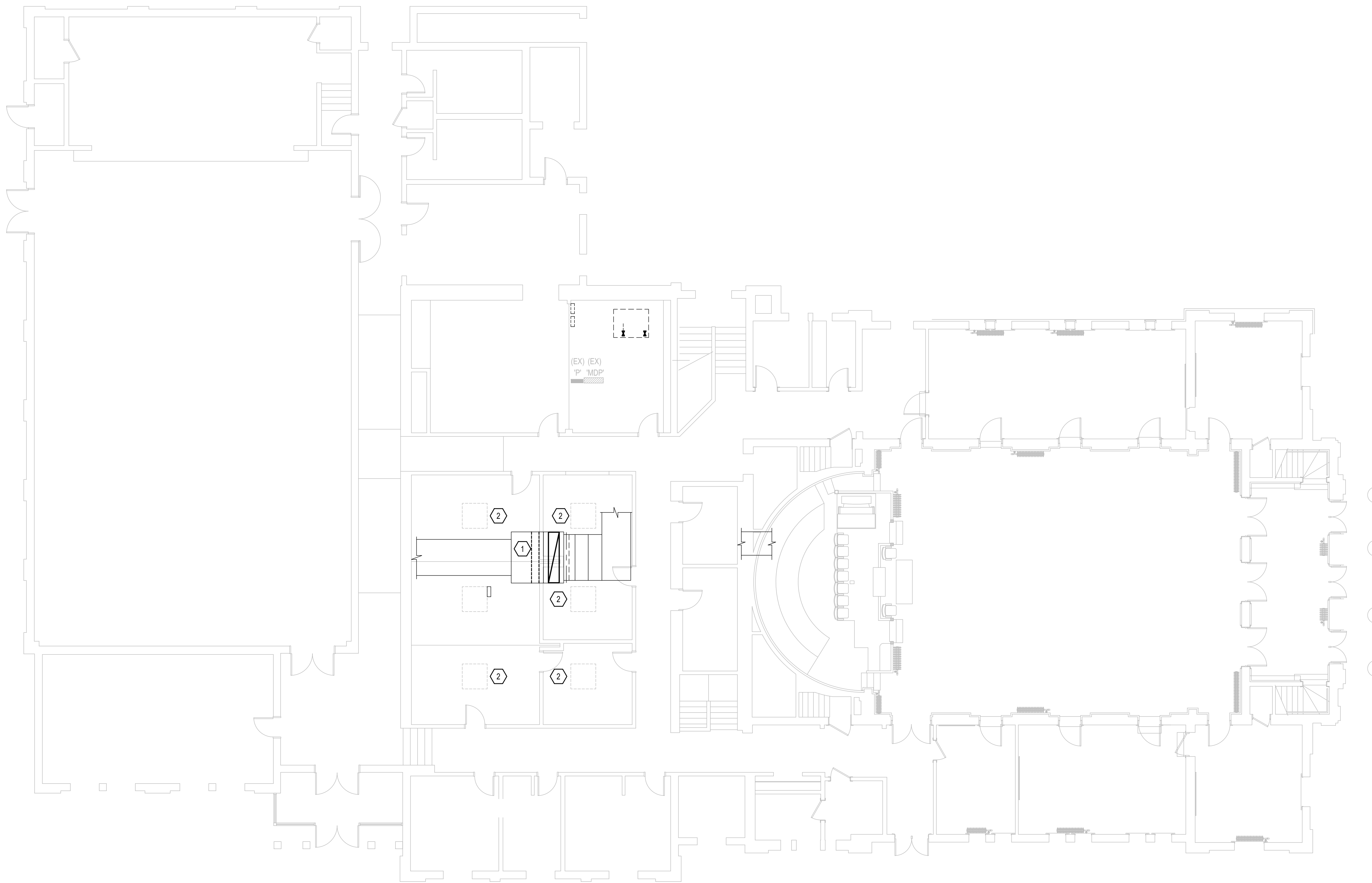
CONNECTED VA: 0
 CONNECTED AMPS: 0

PHASE VA: 830 A, 830 B, 830 C
 VA LOAD: 7 A, 7 B, 7 C
 KVA: 0.8

DIVERSIFIED VA: 1 KVA
 DIVERSIFIED AMPS: 2 A

CODES:
 1=SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE
 2=SHUNT-TRIP BREAKER
 3=GFCI BREAKER
 4=PROVIDE LOCK OFF DEVICE

NOTES:
 THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C



1 ELECTRICAL DEMO PLAN MAIN LEVEL
ED101 SCALE: 1/8"=1'-0"

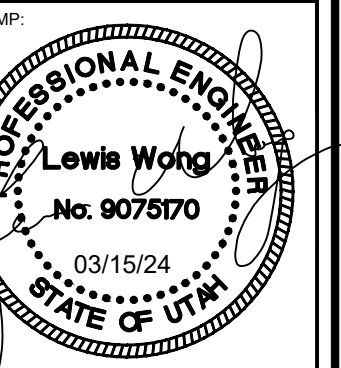
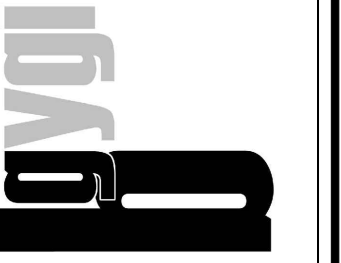
KEYED NOTES

1. EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT AND MAINTAIN CIRCUIT INTEGRITY.
2. EXISTING SKYLIGHT WITH EXHAUST FAN FUNCTION. DISCONNECT AND ABANDON RELATED ELECTRICAL WORK.

GENERAL NOTES

- A. EC SHALL COORDINATE WITH ALL OTHER TRADES DURING DEMOLITION AND CONSTRUCTION TO FACILITATE TIMELY WORK.
- B. ALL AREAS ARE TO BE KEPT CLEAN AND CLEAR OF DEBRIS AT ALL TIMES.
- C. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, CEILINGS ETC. TO MATCH EXISTING CONDITIONS. PENETRATIONS SHALL BE SEALED WITH FIRE RATED CAULK.
- D. ROUTE ALL CONDUIT IN A NEAT AND ORDERLY FASHION. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS OR IN WALLS OR FINISHED SPACES UNLESS OTHERWISE INDICATED ON THE PLANS.
- E. DEVICES SHOWN ON DEMOLITION SHEETS ARE GATHERED FROM AS-BUILT DRAWINGS AND FIELD INVESTIGATION. NOT ALL DEVICES ARE SHOWN. DEVICE PLACEMENT IS SCHEMATIC AND NOT EXACT. CONTRACTOR TO FIELD VERIFY FOR EXACT LOCATIONS AND COORDINATE WORK WITH ALL OTHER DEVICES, EQUIPMENT, CONDUIT, ETC. WHETHER OR NOT SHOWN TO COMPLETE PROJECT.
- F. CONTRACTOR TO COORDINATE WITH OWNER FOR ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. CONTRACTOR RESPONSIBLE FOR DISPOSING OF ANY MATERIAL THAT THE OWNER DOES NOT WANT TO KEEP.
- G. CAP AND LABEL ALL EMPTY CONDUIT TO REMAIN.
- H. EXISTING DEVICES/EQUIPMENT SHOWN IN GRAY ARE EXISTING TO REMAIN. PRESERVE AND PROTECT.

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LOGAN 1,2
LOGAN UT CACHE WEST STAKE
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LOGAN, UT

PROJECT FOR:
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PROJECT NUMBER:
501735120070101
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15 MAR 2024
PROPERTY NUMBER:
5017351

DRAWN BY: CHECKED:

SHEET TITLE:
**ELECTRICAL
DEMO PLAN
MAIN LEVEL**

SHEET:
ED101

