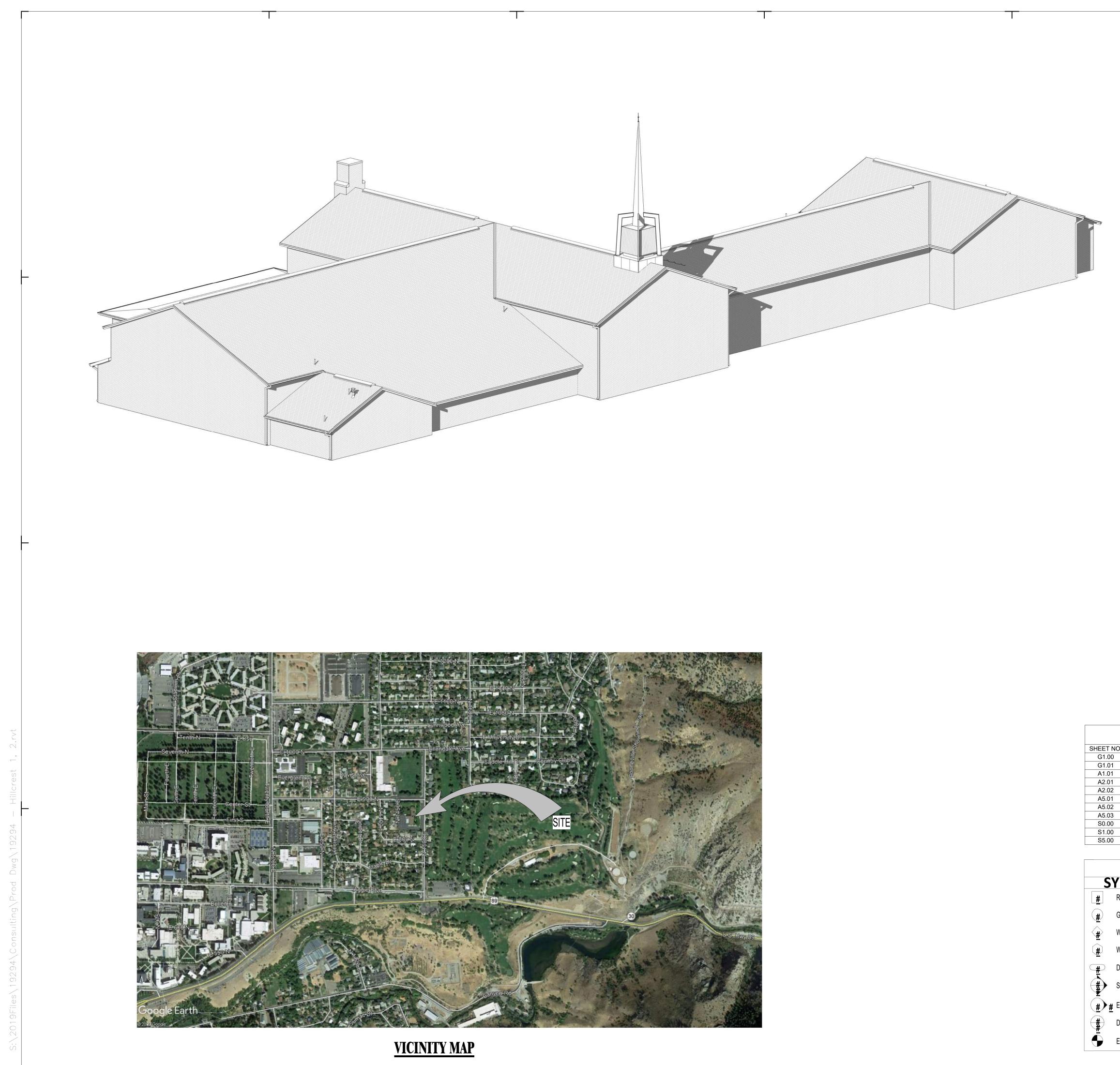
HILLCREST 1, 2 RE-ROOF & **STRUCTURAL UPGRADES** LOGAN UTAH EAST STAKE

875 NORTH 1500 EAST LOGAN, UTAH 84321 **PROP NO. 5016495**







GENERAL NOTES:

- 1. CONTRACTOR MUST VISIT THE SITE SO AS TO BE FAMILIAR WITH ALL EXISTING CONDITIONS BEFORE SUBMITTING BID, BRING ANY QUESTIONS OR CONCERNS TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION, FOR ADDENDUM PRIOR TO BID OPENING. NO ALLOWANCES WILL BE MADE FOR CONDITIONS THAT ARE CLEARLY VISIBLE.
- 2. CONTRACTOR SHALL WORK WITH LOCAL REPRESENTATIVE ON SCHEDULING TO INSURE CONTINUED USE OF THE BUILDING. NEITHER THE CONTRACTOR NOR ANY OF HIS PEOPLE SHALL HAVE ACCESS TO THE BUILDING WITHOUT PRIOR AUTHORIZATION.
- 3. ALL SAFETY STANDARDS AND REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. EXISTING ROOF PENETRATIONS WILL BE FLASHED AND PAINTED.
- 5. ALL EXISTING ROOF VENTS, MECHANICAL UNITS, ROOF HATCHES, ETC. WILL BE A MINIMUM OF 10" ABOVE THE FINISHED ROOF.
- 6. ALL NEW METAL WILL BE GALVANIZED OR PRE-FINISHED. CAULKING WILL BE SAME COLOR AS METAL.
- 7. BEFORE FABRICATION OF ANY SHEET METAL WORK, SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL. ALL WORK TO CONFORM TO NRCA OR SMACNA DETAILS AND REQUIREMENTS WHERE NOT SPECIFICALLY DETAILED OTHERWISE.
- 8. COMPLY WITH ALL MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 9. CONTRACTOR RESPONSIBLE TO KEEP BUILDING WATERTIGHT AT ALL TIMES. STARTING FROM NOTICE TO PROCEED TO SUBSTANTIAL COMPLETION ANY DAMAGE TO THE BUILDING OR ITS CONTENTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. CONTRACTOR TO CHECK ALL MECHANICAL EQUIPMENT BEFORE DISCONNECTING TO MAKE SURE THEY ARE OPERATING PROPERLY, CONTRACTOR IS ALSO RESPONSIBLE FOR UNITS TO BE IN COMPLETE OPERATING CONDITION AT THE COMPLETION OF THE PROJECT. COORDINATE SHUTDOWN WITH USERS.
- 11. RAIN GUTTERS & DOWNSPOUTS HEADS:
- a. RIVETS & SCREWS TO BE PAINTED SAME COLOR (NO SPRAY PAINT)
- b. USE POP RIVETS AT ALL CONNECTIONS FROM GUTTERS TO DOWNSPOUTS. c. DOWNSPOUTS TO CONNECT TO EXISTING SUB-GRADE DRAINAGE SYSTEM
- WHERE THERE IS EXISTING DRAINAGE SYSTEM. PROVIDE NEW CONNECTION FITTING.
- d. DOWNSPOUTS NOT CONNECTED TO DRAINAGE SYTEM WILL EMPTY ONTO A NEW 12"x30" PRE-CAST SPLASH BLOCK.
- e. ALL JOINTS TO BE SEALED WATER TIGHT.
- 12. BEFORE ORDERING ANY MATERIALS, VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. DO NOT SCALE DRAWINGS FOR QUANTITIES.
- 13. BEFORE INSTALLATION OF ALL NEW PIPE JACKS AND PIPE FLASHINGS VERIFY THAT ALL MECHANICAL FLUES AND VENTS ARE STRAPPED TO PREVENT ANY SETTLEMENT OR SHIFTING INTO ROOF. PRIOR TO COMPLETION OF WORK, CONTRACTOR TO VERIFY THAT MECHANICAL EQUIPMENT VENTING TO HAVE POSITIVE RELEASE FLOW TO ROOF VENT AND FLUE IS SECURED TO ORIGINAL HEIGHT AND ALL CONNECTIONS ARE TIGHT AND SECURE.
- 14. ANY SIDING, FASCIA, ETC. THAT NEEDS TO BE REMOVED TO COMPLETE THIS JOB IS TO BE PART OF THE CONTRACT. CARE MUST BE TAKEN TO ENSURE THAT ALL ITEMS TO BE REINSTALLED ARE NOT DAMAGED DURING REMOVAL AND/OR INSTALLATION. ALL PIECES THAT ARE DAMAGED WILL BE REPLACED BY CONTRACTOR.
- 15. AT THE END OF CONSTRUCTION, CONTRACTOR IS TO CLEAN OUT AND FLUSH ALL RAIN GUTTERS & DOWNSPOUTS TO MAKE SURE THEY ARE NOT PLUGGED AND ARE IN WORKING CONDITION.
- CONTRACTOR TO SUPPLY AN ON SITE PORTABLE RESTROOM. FACILITY RESTROOMS ARE NOT TO BE USED BY CONTRACTOR OR CONTRACTOR'S EMPLOYEES. LOCATION OF PORTABLE RESTROOM TO BE DETERMINED DURING PRE-CONSTRUCTION MEETING.

SHEET INDEX

).	SHEET IIILE
	COVER SHEET
	GENERAL NOTES & ABBREVIATIONS
	ROOF PLAN
	EXTERIOR ELEVATIONS
	EXTERIOR ELEVATIONS
	ROOF DETAILS
	ROOF DETAILS
	ROOF DETAILS
	GENERAL STRUCTURAL NOTES
	ROOF FRAMING PLAN
	STRUCTURAL DETAILS

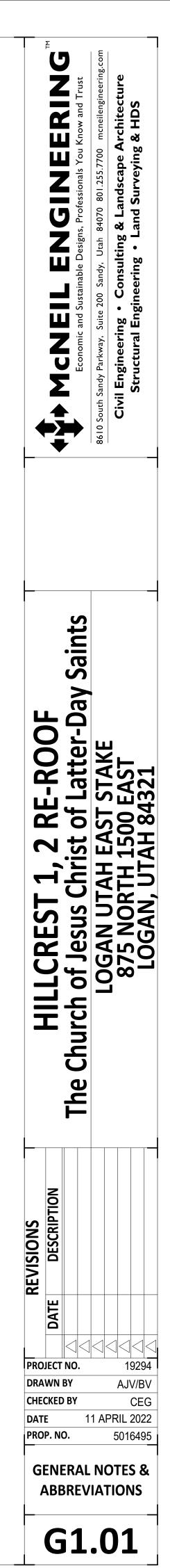
COMMON SYMBOLS & ABBREVIATIONS ABBREVIATIONS SYMBOLS ROOM FINISH KEYNOTE A.F.F. = ABOVE FINISHED FLOOR W.H. = WATER HEATER

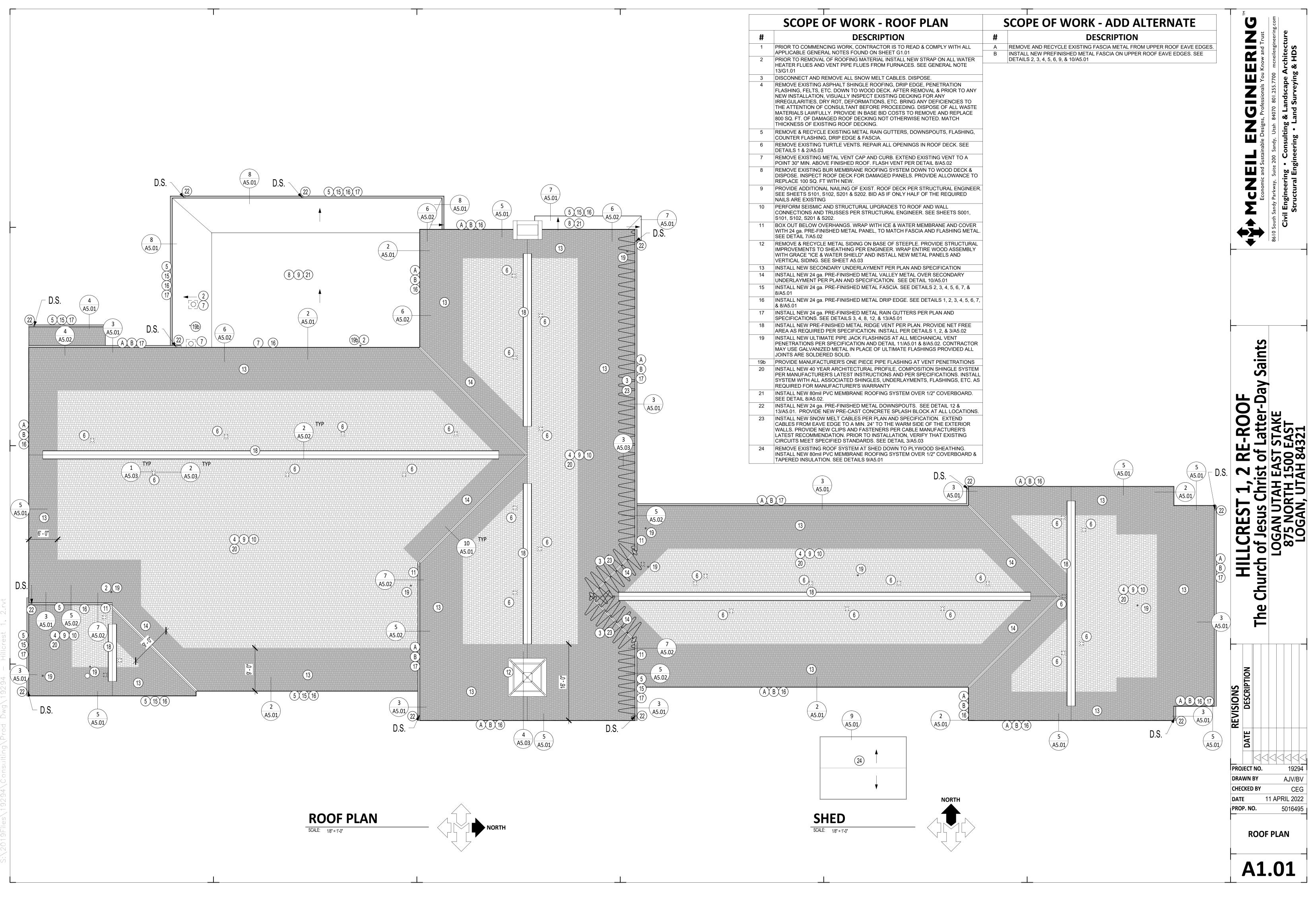
GENERAL KEYNOTE WALL CALLOUT WINDOW CALLOUT DOOR CALLOUT SECTION CALLOUT **#** ELEVATION CALLOUT DETAIL CALLOUT ELEVATION MARKER

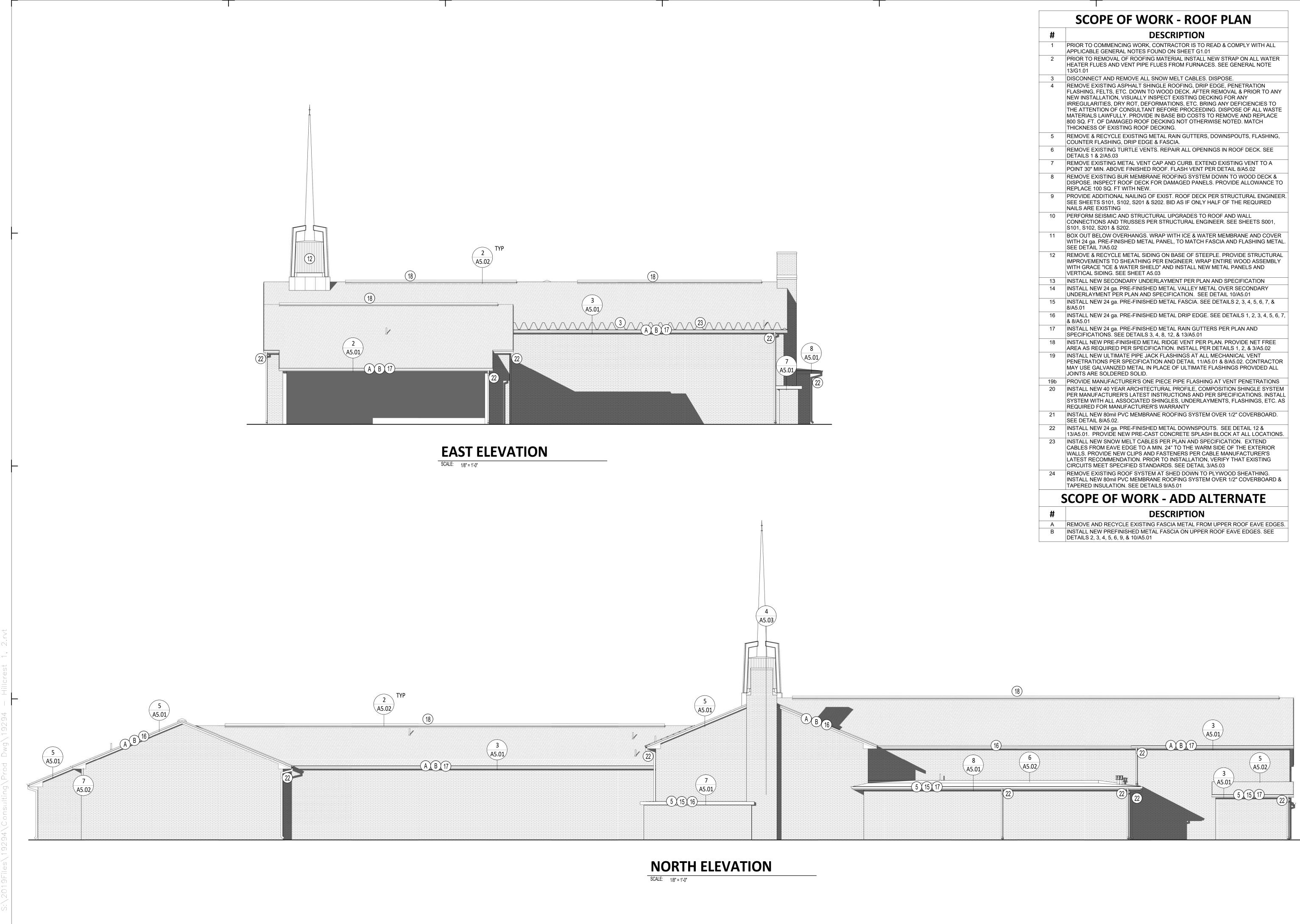
ALUM. = ALUMINUM BD. = BOARD CONC. = CONCRETE DIA. = DIAMETER EA. = EACH FD = FLOOR DRAIN FURN. = FURNACE GA. = GAUGE GALV. = GALVANIZED GPF = GALLONS PER FLUSH GYP. = GYPSUM HB = HOSE BIB H.C. = HANDI-CAP

LT. = LIGHT Max. = Maximum MECH. = MECHANICAL MFR. = MANUFACTURER MH = MANHOLE MIN. = MINIMUM NO. = NUMBER N.T.S. = NOT TO SCALE O.C. = ON CENTER O.H. = OVERHANG PR. = PAIR RCP = REFLECTED CEILING PLAN RE. = REFERENCE

SEC. = SECTION SECT. = SECTION SIM. = SIMILAR T&G = TUNG & GROOVE T.O. = TOP OF TYP. = TYPICAL U.N.O. = UNLESS NOTED OTHERWISE WT. = WEIGHT VIF = VERIFY IN FIELD

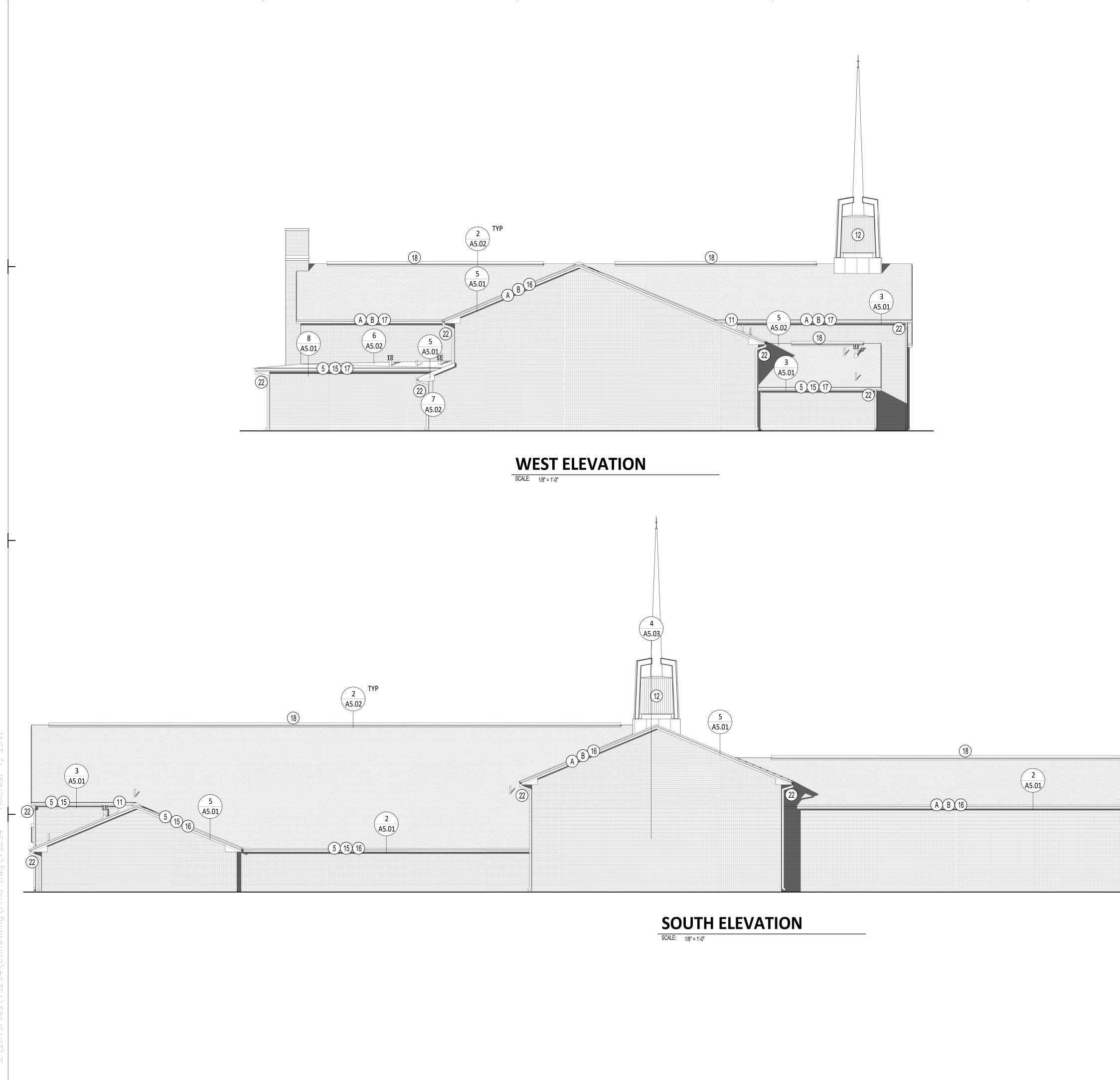




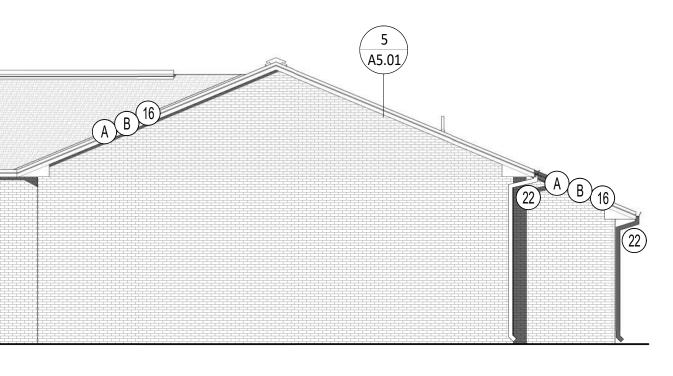


	SCOPE OF WORK - ROOF PLAN					
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3	DISCONNECT AND REMOVE ALL SNOW MELT CABLES. DISPOSE.					
4	REMOVE EXISTING ASPHALT SHINGLE ROOFING, DRIP EDGE, PENETRATION FLASHING, FELTS, ETC. DOWN TO WOOD DECK. AFTER REMOVAL & PRIOR TO ANY NEW INSTALLATION, VISUALLY INSPECT EXISTING DECKING FOR ANY IRREGULARITIES, DRY ROT, DEFORMATIONS, ETC. BRING ANY DEFICIENCIES TO THE ATTENTION OF CONSULTANT BEFORE PROCEEDING. DISPOSE OF ALL WASTE MATERIALS LAWFULLY. PROVIDE IN BASE BID COSTS TO REMOVE AND REPLACE 800 SQ. FT. OF DAMAGED ROOF DECKING NOT OTHERWISE NOTED. MATCH THICKNESS OF EXISTING ROOF DECKING.					
5	REMOVE & RECYCLE EXISTING METAL RAIN GUTTERS, DOWNSPOUTS, FLASHING, COUNTER FLASHING, DRIP EDGE & FASCIA.					
6	REMOVE EXISTING TURTLE VENTS. REPAIR ALL OPENINGS IN ROOF DECK. SEE DETAILS 1 & 2/A5.03					
7	REMOVE EXISTING METAL VENT CAP AND CURB. EXTEND EXISTING VENT TO A POINT 30" MIN. ABOVE FINISHED ROOF. FLASH VENT PER DETAIL 8/A5.02					
8	REMOVE EXISTING BUR MEMBRANE ROOFING SYSTEM DOWN TO WOOD DECK & DISPOSE. INSPECT ROOF DECK FOR DAMAGED PANELS. PROVIDE ALLOWANCE TO REPLACE 100 SQ. FT WITH NEW.					
9	PROVIDE ADDITIONAL NAILING OF EXIST. ROOF DECK PER STRUCTURAL ENGINEE SEE SHEETS S101, S102, S201 & S202. BID AS IF ONLY HALF OF THE REQUIRED NAILS ARE EXISTING					
10	PERFORM SEISMIC AND STRUCTURAL UPGRADES TO ROOF AND WALL CONNECTIONS AND TRUSSES PER STRUCTURAL ENGINEER. SEE SHEETS S001, S101, S102, S201 & S202.					
11	BOX OUT BELOW OVERHANGS. WRAP WITH ICE & WATER MEMBRANE AND COVER WITH 24 ga. PRE-FINISHED METAL PANEL, TO MATCH FASCIA AND FLASHING META SEE DETAIL 7/A5.02					
12	REMOVE & RECYCLE METAL SIDING ON BASE OF STEEPLE. PROVIDE STRUCTURAL IMPROVEMENTS TO SHEATHING PER ENGINEER. WRAP ENTIRE WOOD ASSEMBLY WITH GRACE "ICE & WATER SHIELD" AND INSTALL NEW METAL PANELS AND VERTICAL SIDING. SEE SHEET A5.03					
13	INSTALL NEW SECONDARY UNDERLAYMENT PER PLAN AND SPECIFICATION					
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19	INSTALL NEW ULTIMATE PIPE JACK FLASHINGS AT ALL MECHANICAL VENT PENETRATIONS PER SPECIFICATION AND DETAIL 11/A5.01 & 8/A5.02. CONTRACTOF MAY USE GALVANIZED METAL IN PLACE OF ULTIMATE FLASHINGS PROVIDED ALL JOINTS ARE SOLDERED SOLID.					
19b 20	PROVIDE MANUFACTURER'S ONE PIECE PIPE FLASHING AT VENT PENETRATIONS INSTALL NEW 40 YEAR ARCHITECTURAL PROFILE, COMPOSITION SHINGLE SYSTEM PER MANUFACTURER'S LATEST INSTRUCTIONS AND PER SPECIFICATIONS. INSTAL SYSTEM WITH ALL ASSOCIATED SHINGLES, UNDERLAYMENTS, FLASHINGS, ETC. A REQUIRED FOR MANUFACTURER'S WARRANTY					
21	INSTALL NEW 80mil PVC MEMBRANE ROOFING SYSTEM OVER 1/2" COVERBOARD. SEE DETAIL 8/A5.02.					
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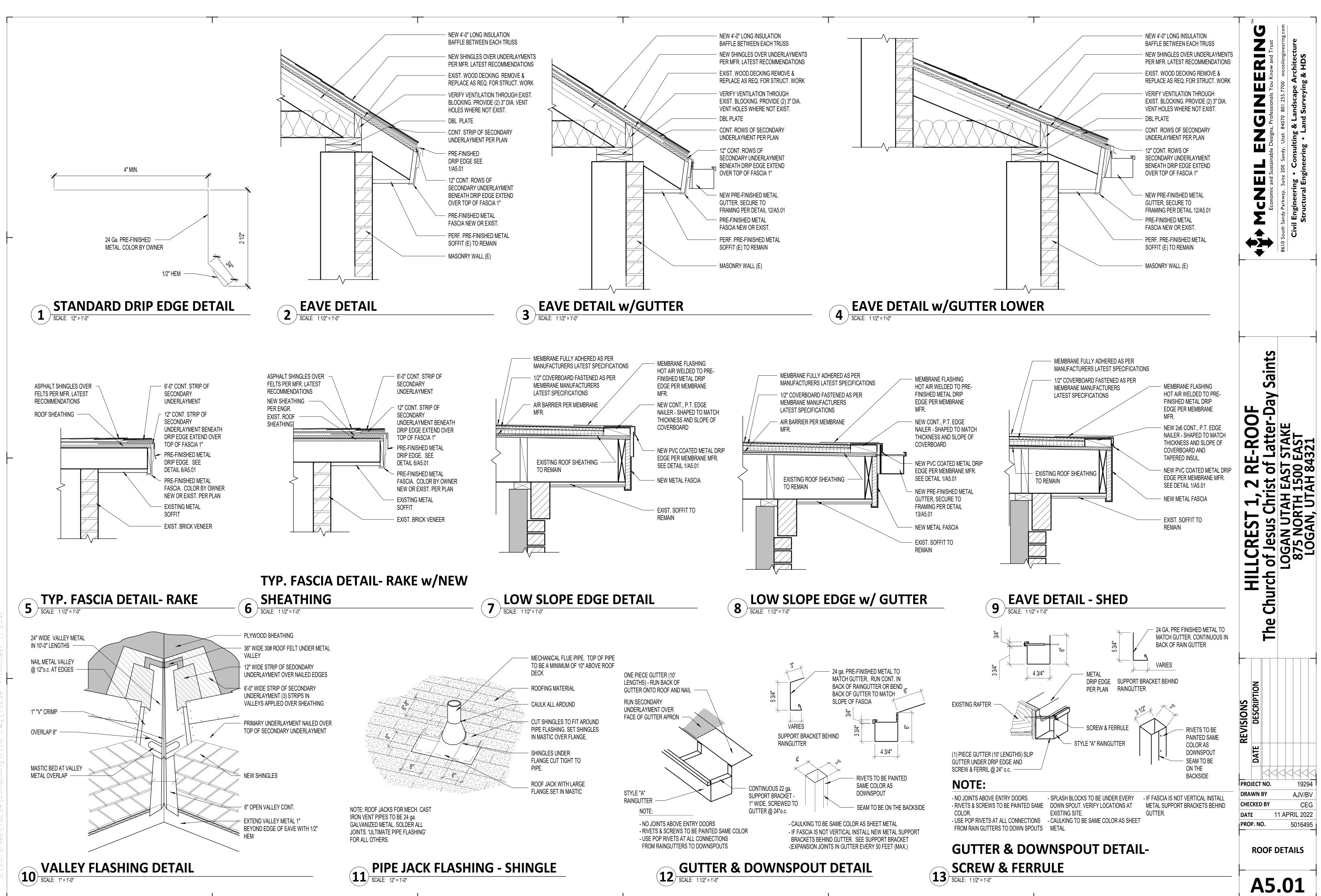


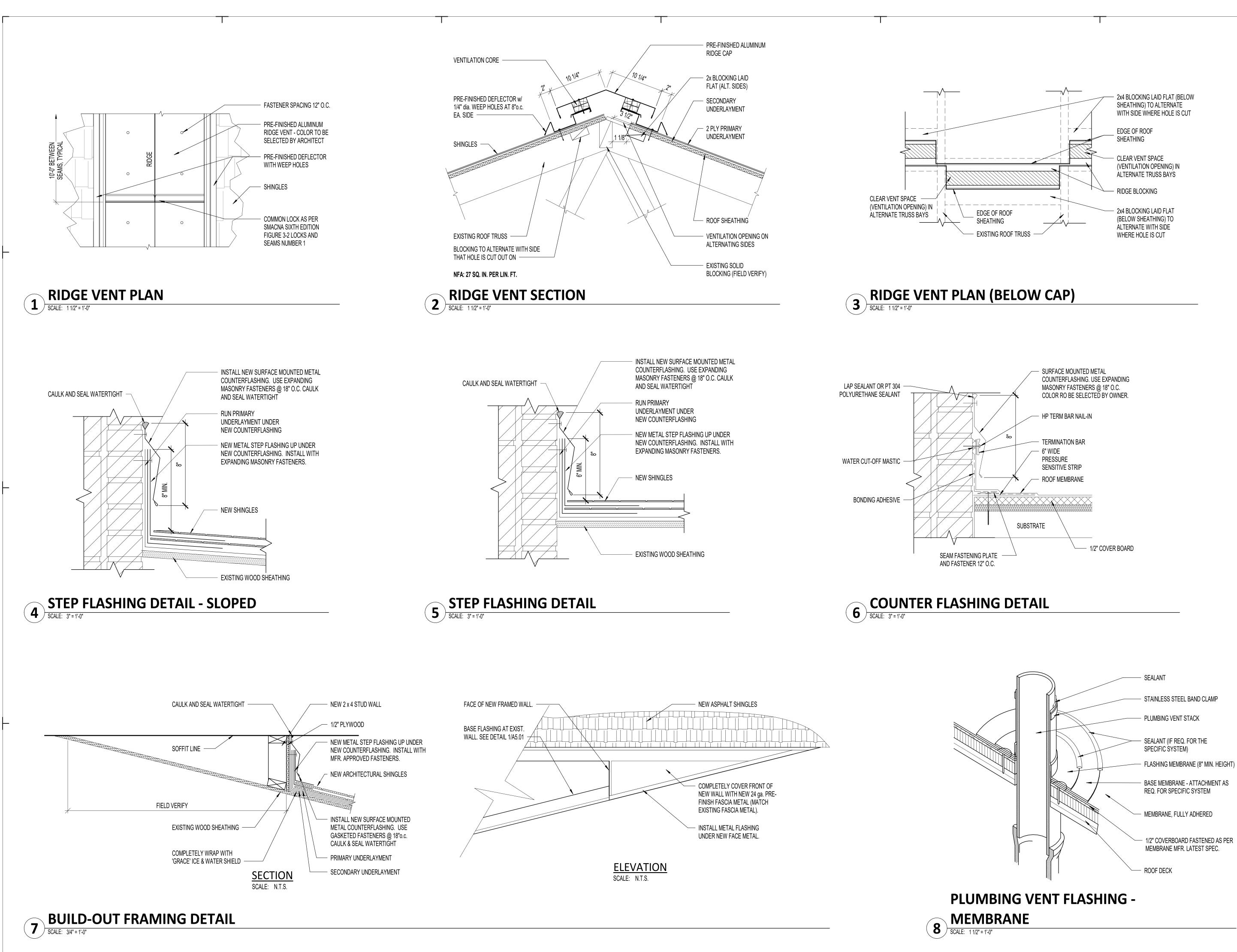


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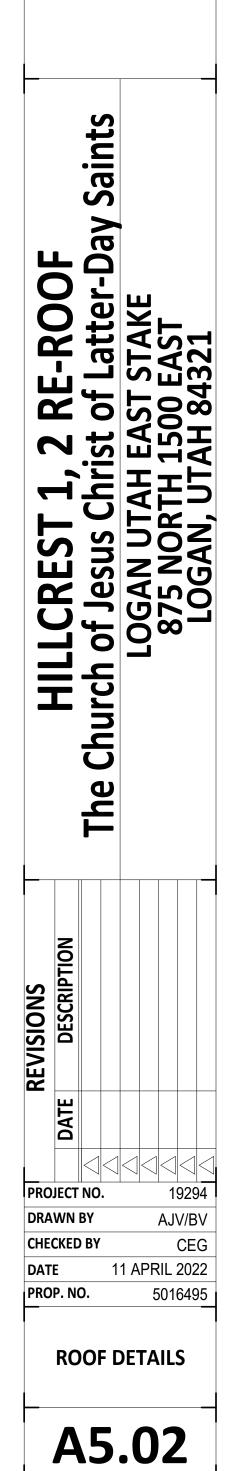


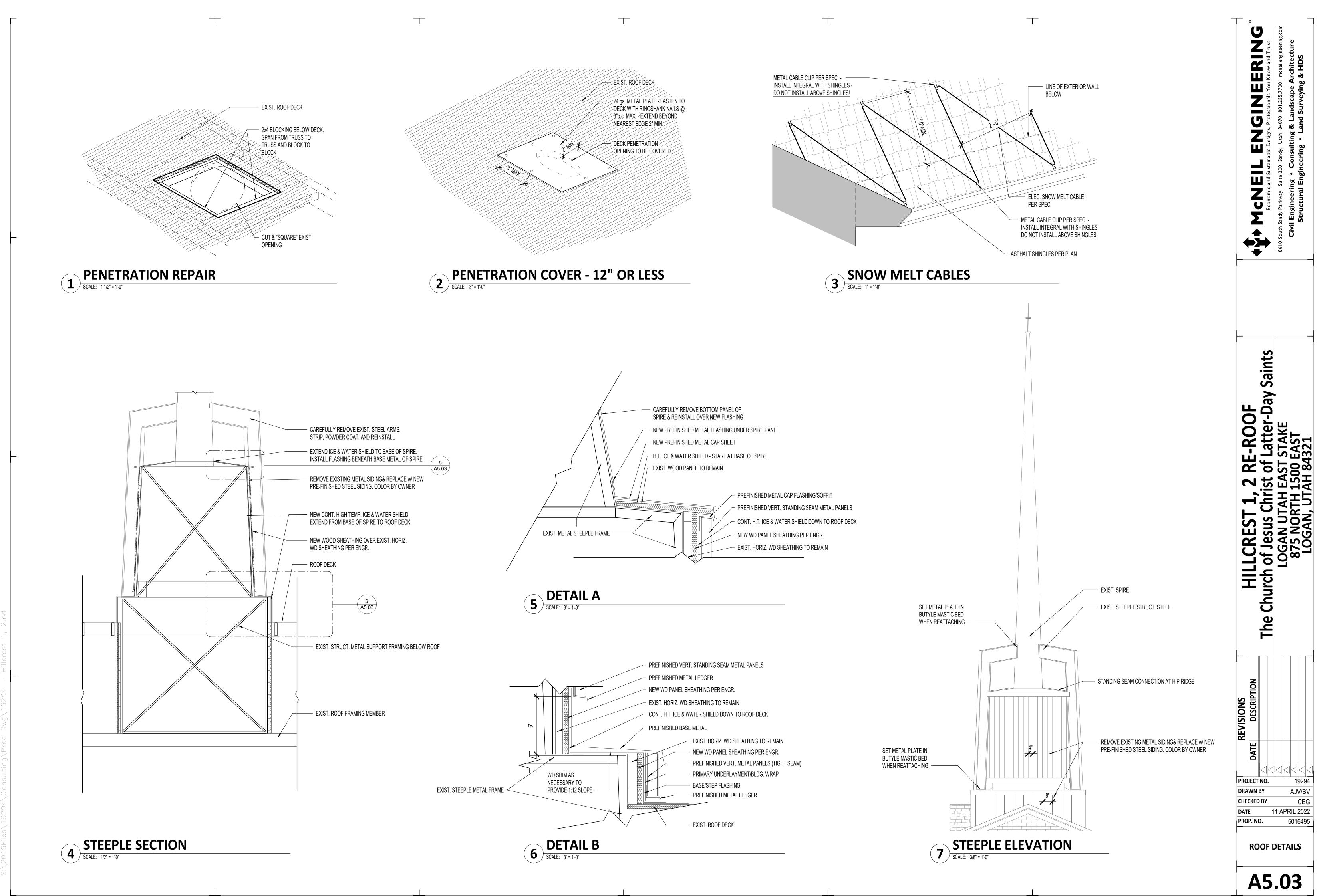


2x4 BLOCKING LAID FLAT (BELOW SHEATHING) TO ALTERNATE WITH SIDE WHERE HOLE IS CUT



0.0





JENERAI UNLESS NOTED OTHERWISE, ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST BUILDING CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS AT THE JOB SITE, AND TO FULLY COORDINATE ALL DIMENSIONS AND CONDITIONS OF DETAILS WITH OTHER DISCIPLINES. ANY FIELD CONDITIONS REOUIRING CONSTRUCTION THAT IS DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ANY CONFLICTING DETAILS SHOWN IN THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE CONSTRUCTION OF SAID DETAIL. DO NOT SCALE DRAWINGS. ANY QUESTIONS REGARDING THE CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT IN THE FORM OF A WRITTEN REQUEST FOR INFORMATION (RFI).

ALL SUPPORT OF CONSTRUCTION LOADS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SHORING AND BRACING REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION PROCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL BE DONE IN ACCORDANCE WITH OSHA REQUIREMENTS. POTENTIAL CONFLICTS BETWEEN THESE DOCUMENTS AND OSHA REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL PROCEDURES OF SOIL EXCAVATION, BACK FILL, AND SUPPORT OF ADJACENT PROPERTY DURING EARTHWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL DIMENSIONS INDICATED ON PLANS SHALL BE TO FACE OF STUDS, FACE OF CONCRETE BLOCK, FACE OF ROUGH CONCRETE, CENTERLINE OF COLUMNS, BOTTOM OF METAL DECK, AND TOP OF SLAB, UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS. THE FOLLOWING DESIGN CRITERIA SHALL BE ENFORCED.

GOVERNING BUILDING CODE: 2018 INTERNATIONAL EXISTING BUILDING CODE AND ASCE

RISK CATEGORY: III (IBC TABLE 1604.5)

LOADING

ROOF LOAD

ROOF DEAD LOAD: 20 PSF ROOF LIVE LOAD: 20 PSF (NON-CONCURRENT WITH ROOF SNOW LOAD)

- ROOF SNOW LOAD:
- A. GROUND SNOW LOAD Pg = 47 PSF (ELEVATION= 4,740 FT)
- B. FLAT ROOF SNOW LOAD Pf = 33 PSF
- C. SNOW EXPOSURE FACTOR Ce = 1.0D. SNOW LOAD IMPORTANCE FACTOR Is = 1.0
- E. THERMAL FACTOR Ct = 1.0

VIND LOAD

BASIC WIND SPEED: 110 MPH (ULTIMATE)

- WIND EXPOSURE TYPE: C WIND IMPORTANCE FACTOR, Iw= 1.0
- 4. INTERNAL PRESSURE COEFFICIENT= ± 0.18

SEISMIC LOAD

SEISMIC IMPORTANCE FACTOR Ie= 1.0

- SITE COEFFICIENTS
- A. Ss = 1.018g, SDS = 0.814g
- B. S1 = 0.34g, SD1 = 0.444gC. Ct = 0.02
- D. SOIL SITE CLASS= D
- E. SEISMIC DESIGN CATEGORY= D

LTERNATES:

ALTERNATE PRODUCTS OF SIMILAR STRENGTH, NATURE AND FORM FOR SPECIFIED ITEMS MAY BE SUBMITTED WITH ADEQUATE TECHNICAL DOCUMENTATION TO THE ARCHITECT/ENGINEER FOR REVIEW. ALTERNATE MATERIALS THAT ARE SUBMITTED WITHOUT ADEQUATE TECHNICAL DOCUMENTATION OR THAT SIGNIFICANTLY DEVIATE FROM THE DESIGN INTENT OF MATERIALS SPECIFIED MAY BE RETURNED WITHOUT REVIEW. ALTERNATES THAT REQUIRE SUBSTANTIAL EFFORT TO REVIEW WILL NOT BE REVIEWED UNLESS AUTHORIZED BY THE OWNER.

DISCREPANCIES

IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES. SPECIFICATIONS PLAN/DETAILS OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO THE SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT AS TO WHICH SHALL GOVERN ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

SITE VERIFICATION:

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

PRE-CONSTRUCTION MEETINGS:

HE CONTRACTOR IS RESPONSIBLE FOR COORDINATING PRE-CONSTRUCTION MEETINGS PRIOR TO COMMENCING WORK. PRE-CON MEETINGS, SCHEDULED APPROXIMATELY TWO WEEKS PRIOR TO THE START OF THE RELEVANT WORK. ATTENDEES FOR THE PRE-CONSTRUCTION MEETING ARE TO INCLUDE CONTRACTOR. RELEVANT SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEER, AND REPRESENTATIVE OF THE AUTHORITY HAVING JURISDICTION WHERE REQUIRED. MEETING AGENDAS ARE TO INCLUDE REVIEW OF THE WORK SCOPE, PROJECT SCHEDULE RELEVANT TO THE WORK, CONTACT INFORMATION OF RESPONSIBLE PARTIES. INSPECTION POINTS, REVIEW OF MATERIALS AND ANY SPECIAL CASES OR ISSUES, PROCEDURES FOR CLARIFICATIONS IF REQUIRED, TESTING AND ACCEPTANCE, ETC.

MEANS, METHODS AND SAFETY REOUIREMENTS

HE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH). CONTRACTOR IS RESPONSIBLE TO ADHERE TO OSHA REGULATIONS REGARDING STEEL ERECTION ITEMS SPECIFICALLY ADDRESSED ON HE LATEST OSHA REGULATIONS. BOLTING AND FIELD WELDING AT ALL MEMBER CONNECTIONS IS TO BE COMPLETED PRIOR TO THE RELEASE OF THE MEMBER FROM THE HOISTING MECHANISM UNLESS REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR'S TEMPORARY BRACING AND SHORING DESIGN ENGINEER.

BRACING/SHORING DESIGN ENGINEER:

THE CONTRACTOR SHALL AT HIS DISCRETION EMPLOY AN SSE, A REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF ANY TEMPORARY BRACING AND SHORING.

EMPORARY SHORING, BRACING:

HE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

CONSTRUCTION LOAD

ADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS AS NOTED IN DESIGN CRITERIA & LOADS BELOW OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION AS DETERMINED BY THE CONTRACTOR'S SSE FOR BRACING/SHORING.

CHANGES IN LOADING:

THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY THE SER OF ANY ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING LOAD IMPOSED ONTO THE STRUCTURE THAT DIFFERS FROM, OR THAT IS NOT DOCUMENTED ON THE ORIGINAL CONTRACT DOCUMENTS (ARCHITECTURAL / STRUCTURAL / MECHANICAL / ELECTRICAL OR PLUMBING DRAWINGS). PROVIDE DOCUMENTATION OF LOCATION, LOAD, SIZE AND ANCHORAGE OF ALL UNDOCUMENTED LOADS IN EXCESS OF 400 POUNDS. PROVIDE MARKED-UP STRUCTURAL PLAN INDICATING LOCATIONS OF ANY NEW EQUIPMENT OR LOADS. SUBMIT PLANS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

NOTE PRIORITIE

PLAN AND DETAIL NOTES AND SPECIFIC LOADING DATA PROVIDED ON THE INDIVIDUAL PLANS AND DETAIL DRAWINGS SUPPLEMENTS INFORMATION IN THE STRUCTURAL GENERAL NOTES.

PLAN INFORMATION: DIMENSIONS ARE FOR REFERENCE, CONTRACTOR TO VERIFY ALL DIMENSIONS. DIMENSIONS ARE PROVIDED BY THE ARCHITECT'S ELECTRONIC FILE. ALWAYS VERIFY THESE PLANS AND DIMENSIONS WITH THE ARCHITECT PLANS UNDER NO CIRCUMSTANCES WILL MCNEIL ENGINEERING, ITS EMPLOYEES OR AGENTS BE LIABLE FOR ANY DIRECT, INDIRECT PUNITIVE OR CONSEQUENTIAL DAMAGES THAT MAY RESULT IN ANY WAY FROM YOUR USE, MISUSE, REFERENCE TO OR RELIANCE ON ANY OF THE INFORMATION PROVIDED OR THAT RESULT FROM MISTAKES, ERRORS, OMISSIONS, INTERPRETATIONS OR DEFECTS. MCNEIL ENGINEERING EXPRESSLY DISCLAIMS ALL WARRANTIES, INCLUDING ANY EXPRESS OR

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CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY DIMENSIONS AGAINST THE

CORRESPONDING OFFICIAL CONSTRUCTION DRAWINGS. DIMENSIONS SHOWN ON THE CONSTRUCTION DOCUMENTS MUST BE VERIFIED WITH ARCHITECTURAL PLANS. IF ANY DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. MCNEIL ENGINEERING DOES NOT GUARANTEE THAT THIS ELECTRONIC MEDIA HAS NOT BEEN DAMAGED, ALTERED OR MODIFIED DURING TRANSMISSION AND/OR STORAGE. MCNEIL ENGINEERING DOES NOT GUARANTEE CHANGES ON THE ARCHITECTURAL PLANS HAVE BEEN FULLY CONVEYED AND THE THE CONSTRUCTION DOCUMENT UPDATED. ANYONE RECEIVING ELECTRONIC MEDIA MUST VERIFY ALL INFORMATION WITH THE CORRESPONDING OFFICIAL CONSTRUCTION DRAWINGS. ANY USE OR REUSE OF THIS INFORMATION SHALL BE THE FULL RESPONSIBILITY OF THE USER.

POST-INSTALLED ANCHORS TO CONCRET

ANCHOR LOCATION, TYPE, DIAMETER AND EMBEDMENT SHALL BE AS INDICATED ON DRAWINGS. REFERENCE THE "POST INSTALLED ANCHORS" SECTION FOR APPLICABLE POST-INSTALLED ANCHOR ADHESIVES. ANCHORS SHALL BE INSTALLED AND INSPECTED IN STRICT ACCORDANCE WITH THE APPLICABLE ICC.

LAMINATED VENEER LUMBER: ALL LAMINATED VENEER LUMBER SHALL CONFORM TO THE SPECIFICATIONS OF WEYERHAEUSER CORPORATION FOR VENEER LUMBER, OR ENGINEER APPROVED EQUIVALENT. DESIGN VALUES SHALL MEET OR EXCEED THOSE PUBLISHED VALUES IN THE BOISE WESTERN DESIGN PRODUCT GUIDE, LATEST EDITION.

SHEATHING SHALL BE A.P.A. RATED, SEE PLAN FOR SPAN RATING AND THICKNESS. SHEATHING INSTALLATION:

ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE FACE GRAIN PERPENDICULAR TO THE FRAMING MEMBERS U.N.O. AND END JOINTS SHALL BE STAGGERED. WALL SHEATHING MAY BE APPLIED HORIZONTALLY OR VERTICALLY.

ALL NAILS SHALL BE COMMON WIRE NAILS U.N.O. EQUIVALENT PNEUMATIC DRIVEN NAILS MAY BE USED IF FASTENER MANUFACTURER HAS CURRENT I.C.C. APPROVAL. FASTENERS TO BE USED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE COMMON NAIL SPECIFIED.

USE EXTERIOR GRADE SHEATHING AT DECKS AND CORRIDORS.

ROOF SHEATHING

EDGE BLOCKING OF UNSUPPORTED EDGES OF SHEATHING AS NOTED ON PLANS. PLY CLIPS OR APPROVED EQUAL CONNECTOR SHALL BE INSTALLED AT MID SPAN BETWEEN EACH SUPPORT WHEN RAFTER SPACING EXCEEDS 16" AND EDGE BLOCKING IS NOT SPECIFIED.

TYPICAL NAILING SHALL BE 8d @ 6" O.C. AT SUPPORTED EDGES AND OVER SHEAR WALLS AND 8d AT 12" O.C. AT INTERMEDIATE SUPPORTS, U.N.O.

ROUGH CARPENTRY: FRAMING LUMBER SHALL BE KILN DRIED AND SHALL MEET THE FOLLOWING MINIMUM STANDARD U.N.O.

STANDARD U.N.U.		
USE:	SPECIES	GRADE
SILL PLATES 2 x 4	D.F.	STANDARD OR BETTER.
2 x 6, 2 x 8	D.F	NO. 2 OR BETTER.
ALL SILL PLATES IN CONTACT WITH CON	ICRETE OR M	IASONRY, SHALL BE PRESSURE
TREATED OR CALIFORNIA REDWOOD.		

HORIZONTAL FRAMING LUMBER:	(UNO)	
4x4 AND SMALLER	D.F.	NO. 2
2x ROOF JOISTS & RAFTERS	D.F.	NO. 2
2x FLOOR JOISTS	D.F.	NO. 2
3x LEDGERS	D.F.	NO. 1
4x HEADERS & BEAMS	D.F.	NO. 1
6x6 & LARGER BEAMS	D.F.	NO. 1
VERTICAL FRAMING LUMBER: (U.)	N.O.)	
ALL STUDS	D.F.	STUD GRADE OR #2 (SEE PLAN
ALL POSTS	D.F.	NO. 1
ALL OTHER LUMBER U.N.O	D.F.	STANDARD OR BETTER.

FINGER-JOINTED LUMBER MAY BE USED EXCEPT AT SHEARWALL HOLDOWNS LOCATIONS.

AT EXTERIOR LOCATIONS, DECKS EXPOSED CORRIDORS, USE APA RATED SHEATHING EXTERIOR. WHERE CONSTRUCTION DELAYS ARE EXPECTED PRIOR TO PROVIDING PROTECTION USE APA RATED SHEATHING EXPOSURE 1 COMMONLY KNOWN AS "CDX".

PROVIDE A MINIMUM OF (2) STUDS UNDER ALL BEAM BEARING LOCATIONS UNO. PROVIDE A MINIMUM OF (3) STUDS UNDER ALL GIRDER TRUSS BEARING LOCATIONS UNO. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE IDENTIFIED ON DRAWINGS, THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION. BLOCK JOISTS AT ALL SUPPORTS. DOUBLE JOISTS UNDER PARALLEL PARTITIONS. BLOCK UNDER PERPENDICULAR PARTITIONS AT 32" O.C.

JOISTS HANGERS AND OTHER METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON COMPANY, SAN LEANDRO CALIFORNIA. ACCESSORIES OF OTHER MANUFACTURER WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED, WHEN APPROVED BY ENGINEER.

BOLTS: HOLES IN WOOD 1/16" OVERSIZE MAX. USE WASHERS AGAINST WOOD. RE-TIGHTEN ALL BOLTS BEFORE CLOSING IN. PRE-DRILL HOLES FOR LAG BOLTS AND TURN BOLTS INTO HOLES, DO NOT DRIVE-IN. FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NON-BEARING WALLS AND OTHER NON-STRUCTURAL FRAMING IS NOT NECESSARILY SHOWN ON THE STRUCTURAL DRAWINGS. SEE FASTENING SCHEDULE (U.N.O.) PER IBC CHAPTER 23

FASTENERS IN PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD: FASTENERS SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL. STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM A 153 PER IBC CHAPTER 23

POST INSTALLED ANCHORS: FOLLOW ALL ICC REPORT AND MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR POST INSTALLED ANCHORS INSTALLATION. WHERE CONFLICT MAY EXIST, THE MOST STRINGENT REQUIREMENTS APPLIES.

FOLLOW MANUFACTURER AND ICC EVALUATION REPORT REQUIREMENTS FOR INSTALLATION TEMPERATURE OF ADHESIVE ANCHORS. ADHESIVE ANCHORS SHALL NOT BE INSTALLED OR CURED OUTSIDE OF APPROVED TEMPERATURE RANGES.

ADHESIVE ANCHORS IN CONCRETE SHALL BE: HILTI HIT RE-500 SD (ESR-2322); SIMPSON SET-XP (ESR-2508); OR DEWALT PURE 110+ (ESR-3298).

ADHESIVE ANCHORS IN GROUTED MASONRY SHALL BE: HILTI HIT HY-150 (ESR-1967); SIMPSON SET (ESR-1772) OR DEWALT AC100+ GOLD (ESR-3200).

MASONRY CONSTRUCTION (IBC 1705.4) Detailed Instructions and Frequencies

PRIOR TO CONSTRUCTION (ARTICLE 1.15, TMS-602/ACI 530.1-11):

		ROCIT		(ARTI)	CLE 1.15, 1105-002/RC1550.1-11).
Review materials certificates, mix designs, test results and construction procedures		Continuous		Periodic	Verify that materials conform to the requirements of the appro construction documents. Mix design, test results, material cert construction procedures should be submitted for review. Morta designs shall conform to ASTM C 270 while grout shall confo ASTM C 476. Material certificates shall be provided for the for reinforcement; anchors, ties, fasteners, and metal accessories; units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.
AS CONSTRUC	TI(ON BEC	GIN	S (TAE	BLE 1.19.2, TMS-402/ACI 530-11):
Proportions of site-prepared mortal		Continuous		Periodic	Verify that mortar is of the type and color specified on the con documents, that it conforms to ASTM C 270, and that it is mix accordance with Article 2.6 A of TMS-602/ACI 530.1-11.
Construction of mortar joints		Continuous		Periodic	Verify that mortar joints comply with Article 3.3 B of TMS-60 530.1-11.
PRIOR TO GRO	UT	TING (TA	ABL	.E 1.19.2	2, TMS-402/ACI 530-11):
Grout space		Continuous		Periodic	Verify that grout space is free of mortar droppings, debris, loo aggregate, and other deleterious materials and that cleanouts as per Article 3.2 D and 3.2 F of TMS-602/ACI 530.1-11. Contin- inspection is required for Risk Category IV buildings.
Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		Continuous		Periodic	Verify that reinforcement, joint reinforcement, wall ties, anchoveneer anchors comply with the approved construction docum Section 1.6 of TMS 402/ACI 530-11.
Placement of reinforcement, connectors, and prestressing tendons and anchorages		Continuous		Periodic	Verify that reinforcement, joint reinforcement, wall ties, anchor veneer anchors are installed in accordance with the approved of documents and Articles 3.2 E, 3.4, and 3.6 A of TMS 602/ACI <i>Continuous inspection is required for Risk Category IV buildin</i>
PRIOR TO GRO	UT	TING (TA	ABI	.E 1.19.2	2, TMS-402/ACI 530-11):
Size and location of structural elements		Continuous		Periodic	Verify the locations of structural elements with respect to the a plans and confirm that tolerances meet the requirements of Art of TMS 602/ACI 530.1-11.
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.		Continuous		Periodic	Verify that correct anchorages and connections are provided p approved plans and Sections 1.16.4.3 and 1.17.1 of TMS 402/, 530-11. <i>Continuous inspection is required for Risk Category I</i>
Welding of reinforcement	\boxtimes	Continuous		Periodic	
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).		Continuous		Periodic	Verify that cold-weather construction is performed in accordan Article 1.8 C of TMS 602/ACI 530.1-11 and hot weather cons Article 1.8 D of TMS 602/ACI 530.1-11.
MINIMUM TES	ΓIN	١G			
Verification of Slump Flow and Visual Stability Index (VSI) for self-consolidating grout		Continuous		Periodic	Compressive strength tests should be performed in accordance ASTM C 1019 for slump flow and ASTM C 1611 for VSI.
Verification of f_m and f_{AAC}		Continuous		Periodic	Determine the compressive strength for each wythe by the "un method" or by the "prism test method" as specified in Article 1 TMS 602/ACI 530.1-11 prior to construction. For Risk Catego buildings this should be verified at every 5,000ft ² of constructi
Verification of proportions of materials in premixed or pre-blended mortar and grout		Continuous		Periodic	Verify that proportions for mortar meet ASTM C 270 and progrout meet ASTM C 476. This applies to <i>Risk Category IV but</i>

