GENERAL NOTES

DESIGN LIVE LOADS

a. Roofs ..... 85 psf
b. Mezzanine Floors..... 75 psf
c. Wind..... Risk Category II, 115 mph Ultimate Wind Speed, Exposure "B"
d. Seismic..... IBC Design Category C

STRUCTURAL STEEL

a. Structural steel rolled shapes shall conform to ASTM A572, Grade 50. Plates and angles shall conform to ASTM A36. Tube shapes shall conform to ASTM A500 Grade B., 46 ksi yield. Pipe shapes shall conform to ASTM A53, Grade B.
b. All bolts shall conform to ASTM Specification A307.
c. Expansion bolts called for on the drawings shall be "HILTI" "WEG-IT", "RED HEAD", or approved wedge type, with the following minimum embedments: 5/8" diameter bolts – 2 3/4", 1/2" diameter bolts – 2 1/4".

STRUCTURAL WOOD FRAMING

a. Except where noted otherwise, all 2" lumber shall be Douglas Fir–Larch S4S No.2 or better, and all solid timber beams and posts shall be Douglas Fir–Larch No. 1. All studs over 12'–0" in length shall be 1.3E LSL with allowable fiber stress in bending = 1700 psi, modulus of elasticity of 1.3x10(6) psi, and allowable shear stress = 425 psi. Logs shall be sized and graded according to notes on plan. Grade shall be as approved by TPI in accordance with ASTM D–3957–84.
b. Except as noted otherwise, minimum nailing shall be provided as specified in Table 2304.10.1 "Fastening Schedule" of the I.B.C., 2018 edition.
c. Floor and roof sheathing shall be APA rated Structural I sheathing with exterior glue and graded in accordance with APA standards. Panel identification and thickness shall be as noted on the drawings.
d. Where light gage framing anchors are shown or required, they shall be Simpson "Strong Tie" or equal ICC–ES approved connectors and shall be installed with the number and type of nails recommended by the manufacturer to develop the rated capacity.
e. Glued Laminated timber shall be of such stress grade to provide glued laminated beams with combination symbol 24F–V4.
f. Laminated Veneer Lumber shall be of such stress grade to provide members with allowable fiber stress in bending = 2600 psi, modulus of elasticity of 1.9x10(6) psi, and allowable shear stress parallel to the glue line = 285 psi.
g. Roof and floor joists shall be plant–fabricated I–series with LVL wood flanges and plywood or OSB webs, and carry ICBO approval for the composite section. Joists shall be designed to carry the full dead and live loads of the roof and floor and any other superimposed loads. Bridging and blocking shall be installed according to the fabricator's requirement.

EPOXY ADHESIVE ANCHORING SYSTEM

a. Epoxy adhesive anchoring system shall be Hilti HIT–RE 500 V3 or approved equal.
b. Anchor rods shall be furnished with chamfered ends so that either end will accept a nut and washer and meet the requirements of ISO 898 Class 5.8.
c. Anchors shall have the following minimum embedments: 3/4"ø – 6 3/4", 5/8"ø – 5 5/8", 1/2"ø – 4 1/2".

STRUCTURAL ERECTION AND BRACING REQUIREMENTS

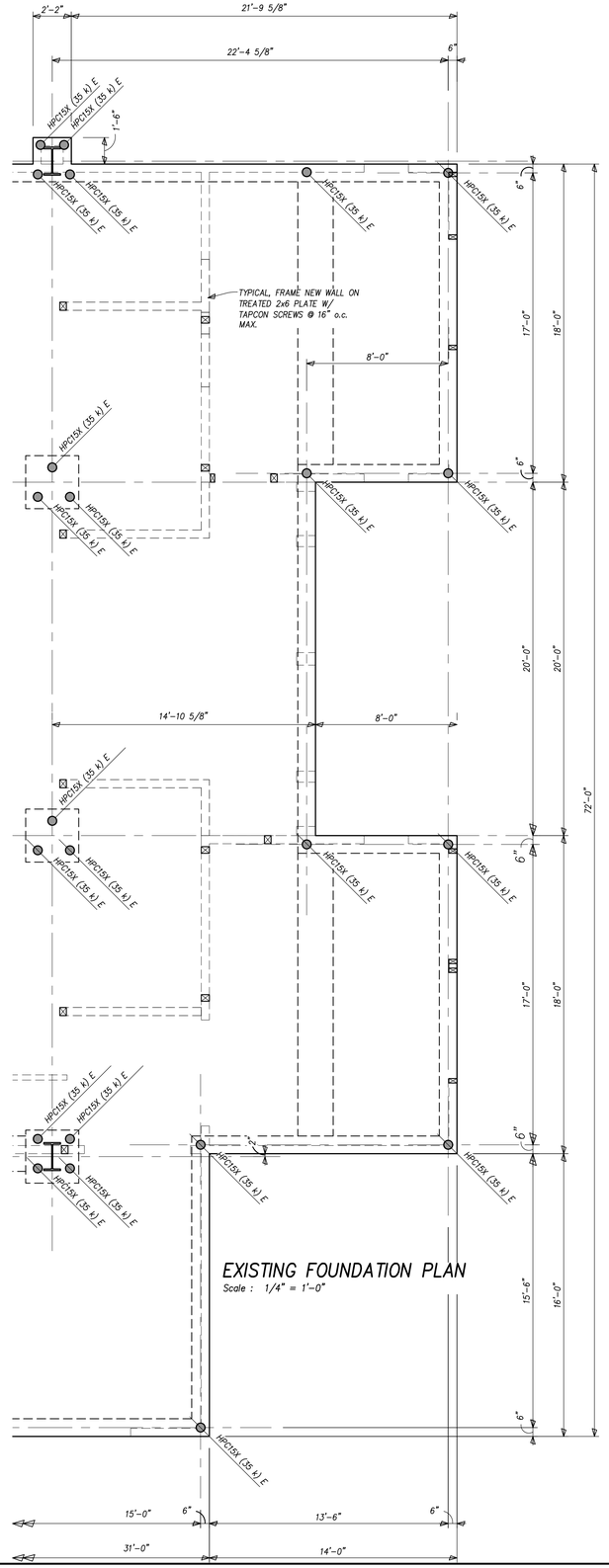
a. The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced.
b. The Contractor, in the proper sequence, shall provide proper shoring and bracing as may be required during construction to achieve the final completed structure.
c. The Contractor shall submit a shoring plan for approval prior to construction and all shoring shall be inspected and approved by Engineer prior to demolition.

SPECIAL INSPECTIONS

a. All special inspections shall comply with chapter 17 of the International Building Code (IBC). These inspections are in addition to the inspections specified in Section 109 of the IBC.
b. The Special Inspector and testing agent shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work.
c. The Special Inspector shall be a qualified person who shall demonstrate competence, to the satisfaction of the Building Official, for inspection of the particular type of construction or operation requiring special inspection.
d. The credentials of all inspectors, administrators and testing technicians shall be provided if requested.
e. The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge.
f. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge.
g. The Special Inspection program does not relieve the Contractor of his or her responsibilities.
h. A Final Report of Special Inspections documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.
i. Job site safety and means and methods of construction are solely the responsibility of the Contractor.
j. The Special Inspection program does not relieve the Contractor or any other entity of any contractual duties, including quality control, quality assurance, or safety.
k. The Contractor is solely responsible for construction means, methods, and job site safety.
l. Special inspection is required for the off site fabrication of structural steel load–bearing members and assemblies unless the work is done on the premises of a fabricator registered and approved to perform such work without special inspection.
m. In addition to special inspections required by chapter 17 of the IBC and those required by the Building Official the following site specific inspections are required:

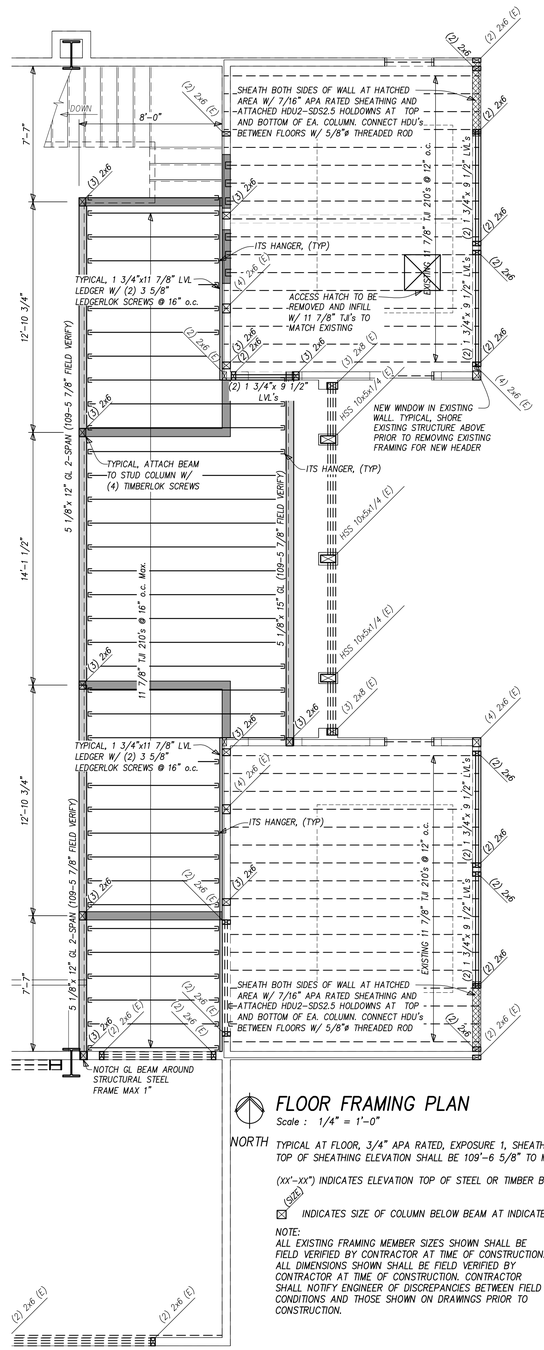
NOTE FOR ADDITIONS TO EXISTING STRUCTURES

a. All parties involved should be aware that additions to existing structures carry the potential risk of differential movement from settlement and shrinkage between the new and existing structures. These potential movements can result in apparent distress in the finishes soon after completion of the project, however should not result in any significant structural distress.
b. The contractor shall take these factors into consideration during construction and take the appropriate measures to minimize potential differential movements by materials with low moisture content to lessen the shrinkage potential, and placing new foundations on properly compacted natural soils or approved compacted structural fill as required. Note that even with proper measures there will still be some risk of differential settlement.
c. The contractor shall notify the engineer of any field conditions that may potentially affect the performance of the new structure or may lead to differential movements in the new structure or between the new and existing structures.



EXISTING FOUNDATION PLAN

Scale : 1/4" = 1'–0"



FLOOR FRAMING PLAN

Scale : 1/4" = 1'–0"

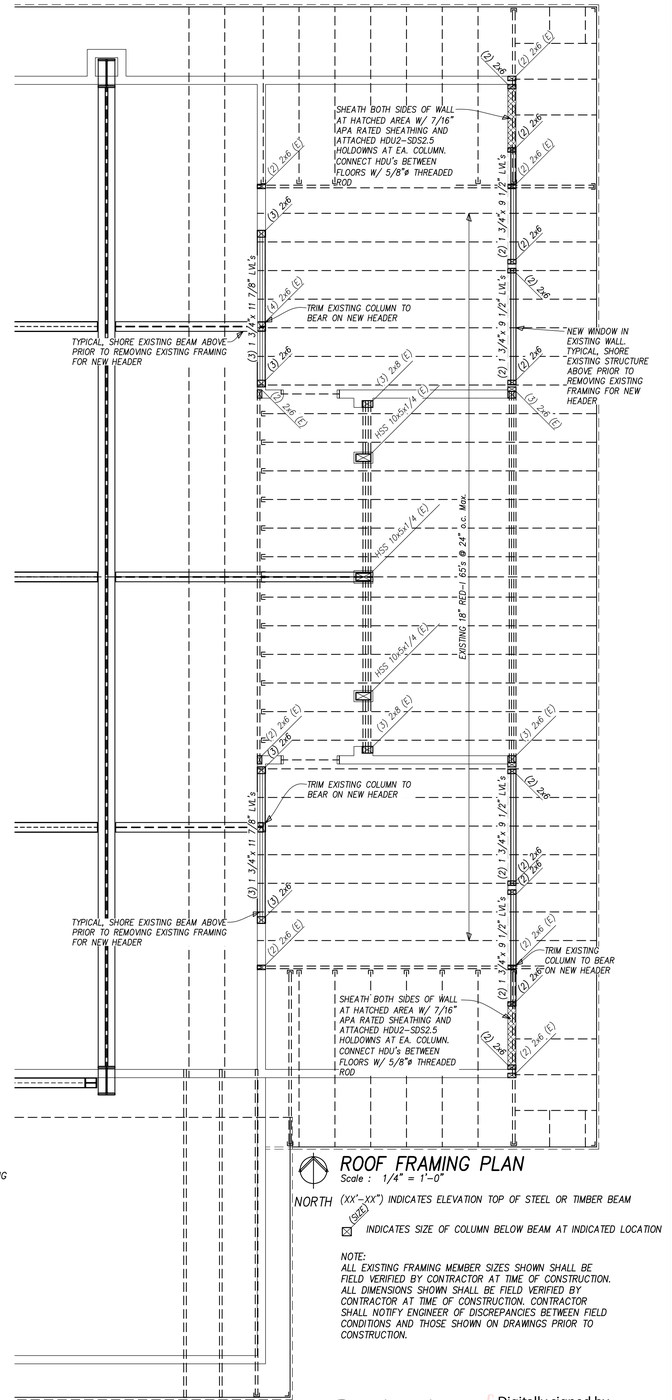
NORTH

TYPICAL AT FLOOR, 3/4" APA RATED, EXPOSURE 1, SHEATHING
TOP OF SHEATHING ELEVATION SHALL BE 109'–6 5/8" TO MATCH EXISTING

(XX'–XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

(SIZE) INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

NOTE:
ALL EXISTING FRAMING MEMBER SIZES SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR AT TIME OF CONSTRUCTION. ALL DIMENSIONS SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR AT TIME OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON DRAWINGS PRIOR TO CONSTRUCTION.



ROOF FRAMING PLAN

Scale : 1/4" = 1'–0"

NORTH

(XX'–XX") INDICATES ELEVATION TOP OF STEEL OR TIMBER BEAM

(SIZE) INDICATES SIZE OF COLUMN BELOW BEAM AT INDICATED LOCATION

NOTE:
ALL EXISTING FRAMING MEMBER SIZES SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR AT TIME OF CONSTRUCTION. ALL DIMENSIONS SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR AT TIME OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON DRAWINGS PRIOR TO CONSTRUCTION.

Benjamin Schutt

Digitally signed by Benjamin Schutt
Date: 2022.06.29 16:09:35 -06'00'

REVIEWED FOR CODE COMPLIANCE
02/22/2023

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COLORADO LICENSED
BENJAMIN F. SCHUTT
40325
PROFESSIONAL ENGINEER

DATE	REVISIONS

DATE	6–29–22
PROJECT	#22–038
DRAWN	SAT
CHECKED	BFS
FILE	SCC Mezz Remodel
SCALE	1/4" = 1'–0"

STEAMBOAT CHRISTIAN CENTER

ROOF AND FLOOR FRAMING PLAN

MEZZANINE REMODEL
821 DOUCHERTY ROAD
STEAMBOAT SPRINGS, COLORADO 80477

SHEET
S–1
1 OF 1