

General Structural Notes:

Design Criteria:
Code Edition: 2021 IBC (International Building Code)
Loads used in design are as follows:

Table with 4 columns: Load Type, Location, Material, and Load Value (psf). Includes Roof, Floor Live Loads, Snow Loads, and Wind Design Data.

Table with 2 columns: Seismic Design Data and Value. Includes Analysis Procedure, Basic Wind Speed, Nominal Wind Speed, Risk Category, Wind Exposure, etc.

Deflection Criteria
Deflection Limits used for design and that shall be used for design of delegated design items shall meet the minimum requirements of the building code...

Table with 3 columns: Component, Limit, and Load Type. Lists various building components like Roof Framing, Wall Framing, and Wall Headers with their respective limits and load types.

Cold Formed Steel Framing:

- 1 Cold formed steel framing shall be designed for loads and deflection criteria given.
2 Cold formed steel framing design and construction shall conform to the AISI North American Specification...
3 Minimum yield strength (Fy) for cold formed steel framing members shall be 33000 psi for 18 Gauge...
4 All cold formed steel studs, trusses, track, bridging and accessories shall be formed from steel having a G-60 galvanized coating...

Concrete and Masonry Anchors:

- 1 Expansion Bolts are to be Kwik Bolt TZ manufactured by Hilti, Inc. Install in accordance with ICC Report ESR-917...
2 Epoxy grouted anchors installed in concrete are to be HIT-Z anchor rods or HAS threaded rods or reinforcing steel installed using HY-200 Adhesive Anchoring System...

General Requirements:

- 1 Structural erection and bracing: The structural drawings illustrate the completed structure with all elements in their final positions supported and braced.
2 Shop drawings: Submit shop and erection drawings for all structural steel, structural aluminum, miscellaneous steel, steel joists and girders...
3 Dimensions: Check all dimensions against field and architectural drawings prior to construction.
4 Construction practices: The general contractor is responsible for means, methods, techniques, sequences and procedures for construction of this project.
5 Coordinate requirements for mechanical/electrical/plumbing penetrations through structural elements with structural engineer.
6 Jobsite safety is the sole responsibility of the contractor.
7 The structural engineer may make periodic observation visits to the jobsite for determination of general conformance with the construction documents.
8 Though every effort has been made to provide a complete and clear set of construction documents, discrepancies or omissions may occur.

Deferred Submittals:

- 1 When received and reviewed by the Engineer of Record, the following submittal items will be submitted to the building official for review and approval: Cold form steel framing

SYMBOLS LEGEND

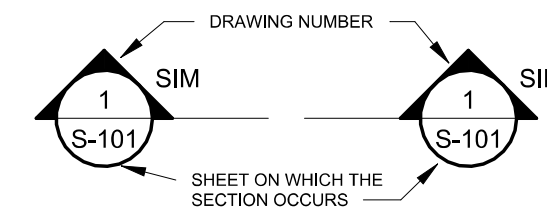
REVISION MARK



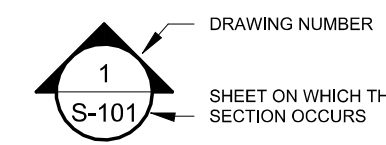
ELEVATION MARK



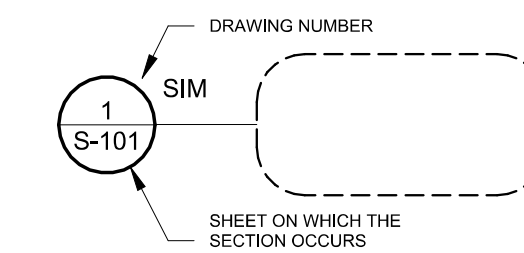
SECTION CUT LABEL



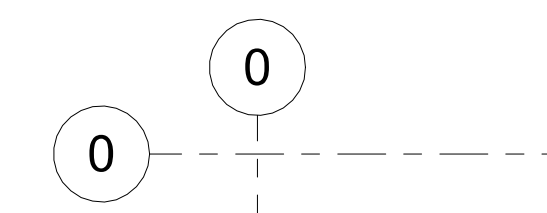
ELEVATION VIEW LABEL



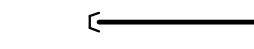
DETAIL



STRUCTURAL GRID LINE



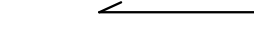
BEAM POCKET



BEAM HANGER



JOIST OR RAFTER BEARING

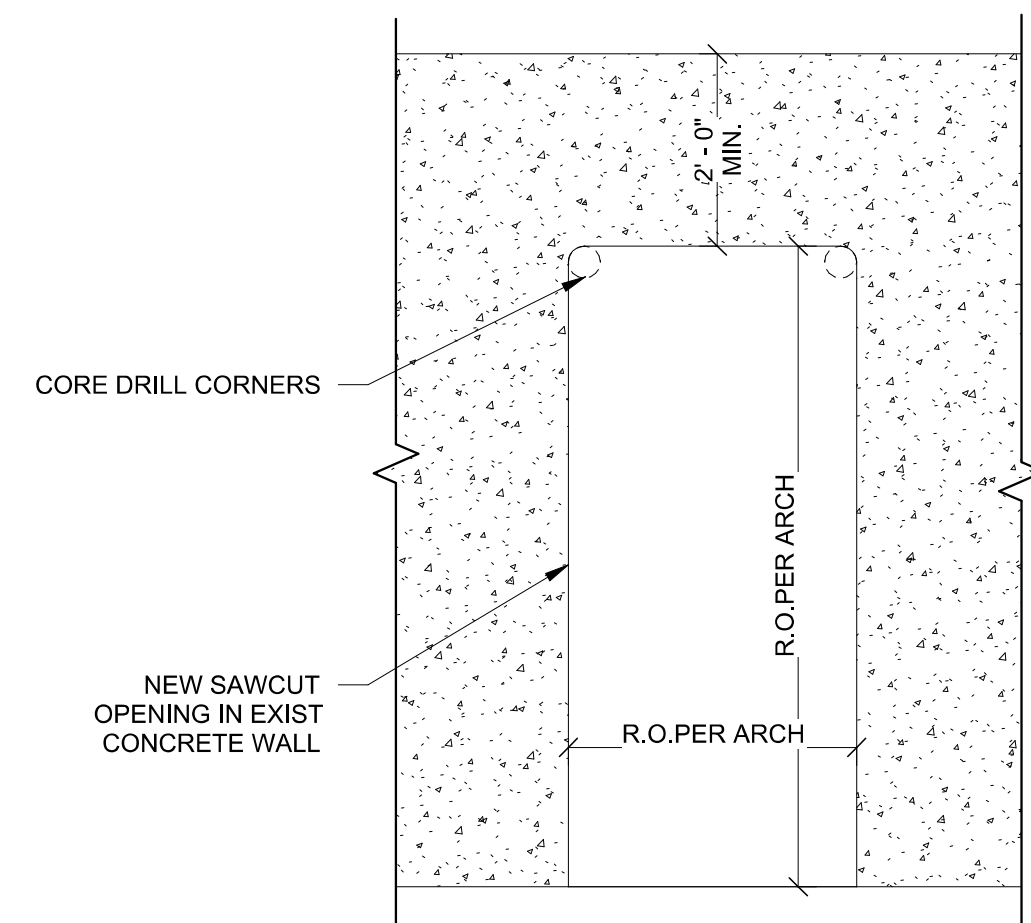


MATERIALS LEGEND

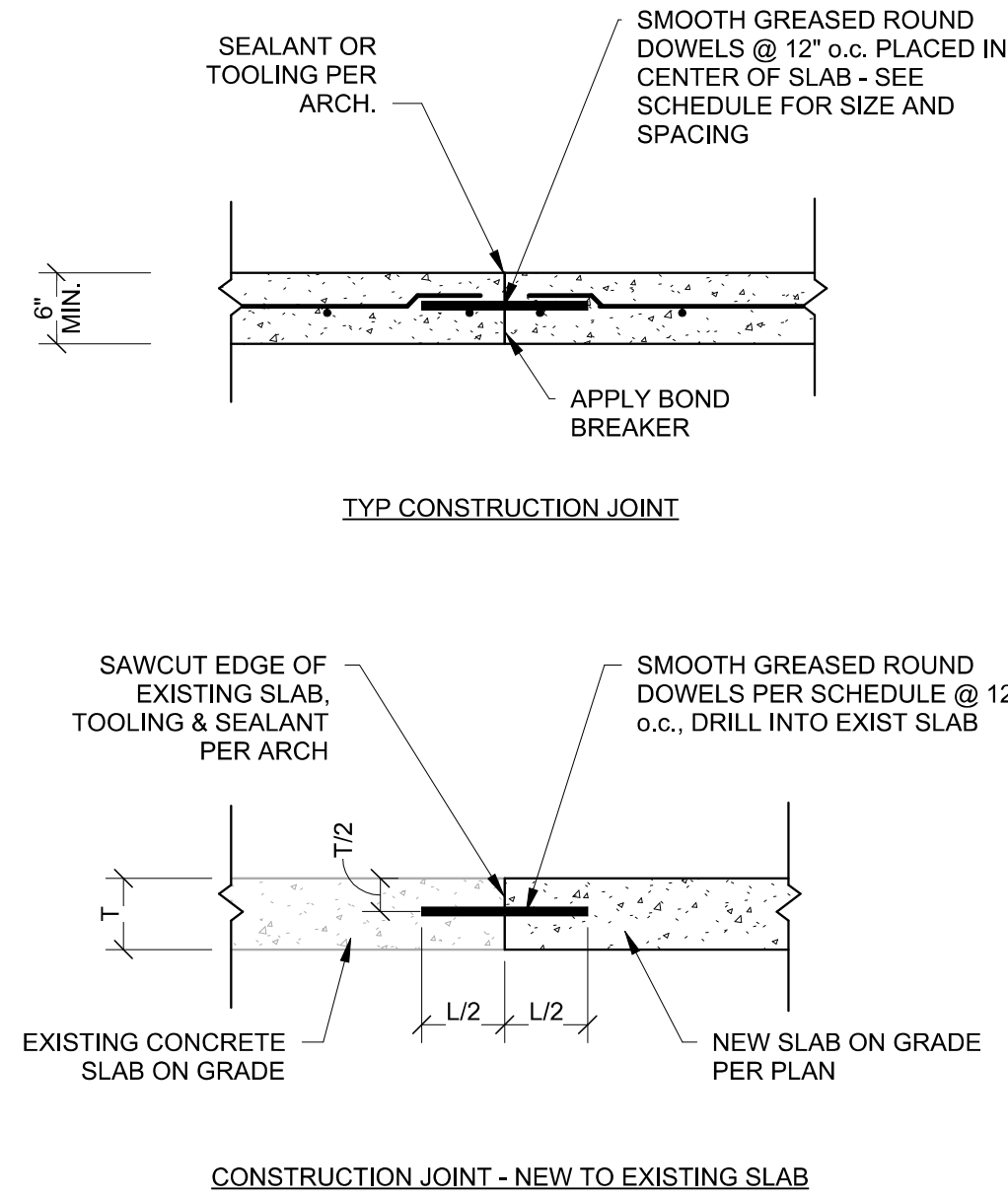
Table listing materials with corresponding symbols: CONCRETE - CAST-IN-PLACE, CLAY MASONRY / BRICK, CONCRETE MASONRY UNIT, STEEL, DIMENSIONED LUMBER, WOOD BLOCKING, PLYWOOD, NATIVE EARTH, COMPACTED EARTH, GRAVEL, SAND / GRANULAR FILL, GYPSUM WALL BOARD.

ABBREVIATIONS

Table of abbreviations and their meanings: @ AT, AB ANCHOR BOLT, AFF ABOVE FINISHED FLOOR, ALT ALTERNATIVE / ALTERNATE, ANCH ANCHOR, ARCH ARCHITECT, B. BOTTOM OF, BF BOTTOM OF FOOTING, BLDG BUILDING, BM BEAM, BOT BOTTOM, BRG BEARING, BW BOTTOM OF WALL, C STEEL CHANNEL, CANT CANTILEVER, CF COLD FORMED, CIP CAST IN PLACE, CJ CONTROL JOINT, CJP COMPLETE JOINT PENETRATION, CL CENTER LINE, CLR CLEAR(ANCE), CMU CONCRETE MASONRY UNIT, COL COLUMN, CONC CONCRETE, CONT CONTINUOUS / CONTINUE, DET DETAIL, DIA DIAMETER, DIM DIMENSION, (E) / EXIST EXISTING, EA EACH, EJ EXPANSION JOINT, EMBED EMBEDMENT, ENGR ENGINEER, EQ EDGE OF, EQ EQUAL, ES EACH SIDE, EW EACH WAY, EXP EXPANSION, EXT EXTERIOR, (F) FUT FUTURE, Fc 28 DAY CONCRETE STRENGTH, FD FLOOR DRAIN, FDN FOUNDATION, FF / FFE FINISH FLOOR (ELEVATION), FOWW FACE OF EXISTING WALL, FOS FACE OF STUD, FRP FIBER REINFORCED PANEL, FT FOOT, FTG FOOTING, Fv SHEAR STRENGTH, Fy YIELD STRENGTH, GA GAUGE, GALV GALVANIZED, GB GYPSUM BOARD, GC GENERAL CONTRACTOR, GL GLU-LAM LUMBER, GWB GYPSUM WALL BOARD, GYP GYPSUM, HAS HEADED ANCHOR STUD, HGR HANGER, HOOK STANDARD REINFORCING HOOK, HORIZ HORIZONTAL, HSS HOLLOW STEEL SECTION, HT HEAVY TIMBER, ID INSIDE DIAMETER, IN INCH, INSUL INSULATION, INT INTERIOR, KLF KIPS PER LINEAL FOOT, KSF KIPS PER SQUARE FOOT, KSI KIPS PER SQUARE INCH, L ANGLE, LAP LAP SPLICE, Ld DEVELOPMENT LENGTH, LLBB LONG LEG BACK TO BACK, LLH LONG LEG HORIZONTAL, LLV LONG LEG VERTICAL, LONG LONGITUDINAL, LSI LAMINATED STRAND LUMBER, LSLP LONG SLOTTED HOLE PARALLEL, LSLT LONG SLOTTED HOLE TRANSVERSE, LVL LAMINATED VENEER LUMBER, LW LIGHTWEIGHT, M MOMENT, MAS MASONRY, MATL MATERIAL, MAX MAXIMUM, MECH MECHANICAL, MFD MANUFACTURED, MIN MINIMUM, MIR MIRROR(ED), MTL METAL, NA NOT APPLICABLE, NIC NOT IN CONTRACT, NOM NOMINAL, NTS NOT TO SCALE, NW NORMAL WEIGHT, OAE OR APPROVED EQUAL, OC ON CENTER(S), OD OUTSIDE DIAMETER, OH OVERHEAD / OVERHANG, OPNG OPENING, OPP OPPOSITE, OSB ORIENTED STRAND BOARD, OSL ORIENTED STRAND LUMBER, OVS OVERSIZED HOLE, (P) PRO PROPOSED, P AXIAL LOAD, PAF POWDER ACTUATED FASTENER, PARTBD PARTICLEBOARD, PC PRECAST, PEMB PRE-ENGINEERED METAL BUILDING, PL PLATE, PLF POUNDS PER LINEAL FOOT, PLY PLYWOOD, PSF POUNDS PER SQUARE FOOT, PSI POUNDS PER SQUARE INCH, PT PRESSURE TREATED, PT POST TENSION (ED), QTY QUANTITY, R REACTION, RAD RADIUS, RAD ROOF DRAIN, REF REFERENCE / REFER TO, REINF REINFORCE / REINFORCING, REOD REQUIRED, RO ROUGH OPENING, RTU ROOF TOP UNIT, SF SQUARE FOOT/FEET, SIM SIMILAR, SLBB SHORT LEG BACK TO BACK, SPEC SPECIFICATION (S), SS STAINLESS STEEL, SLP SHORT SLOTTED HOLE PARALLEL, SLLT SHORT SLOTTED HOLE TRANSVERSE, STD STANDARD, STL STEEL, STRUCT STRUCTURE / STRUCTURAL, SUSP SUSPENDED, SYST SYSTEM, T TOP OF: DECK, CONCRETE, BEAM, PARAPET, STEEL, WALL, T&B TOP AND BOTTOM, T&G TONGUE AND GROOVE, TOW TOP OF WALL, TRANS TRANSVERSE, TYP TYPICAL, UNO UNLESS NOTED OTHERWISE, V V SHEAR LOAD, VERT VERTICAL, VIF VERIFY IN FIELD, VNR VENEER, W WIDE FLANGE, WASH. WASHER, WCV WALL COVERING, WD WOOD, WDB WOOD BLOCKING, WDB WOOD BASE, WDF WOOD FLOORING, WDT WOOD TRIM, WDV WOOD VENEER, WDW WINDOW, WF WIDE FLANGE, WP WORK POINT, WPT WALL PROTECTION, WTW WINDOW TREATMENT, WT STEEL TEE SECTION, WWR WELDED WIRE REINFORCING, XPS EXTRUDED POLYSTYRENE, # NUMBER / POUND, & AND, @ AT.



2 CONCRETE WALL - DOOR OPENING ELEVATION
1/2" = 1'-0"



DOWEL SCHEDULE table with columns T, SIZE, and LENGTH. Rows show sizes from 4" to 8" with corresponding dimensions.

3 TYPICAL SLAB CONSTRUCTION JOINT DETAILS
3/4" = 1'-0"

SGM
118 West Sixth Street, Suite 200
Glenwood Springs, CO 81601
970.945.1004
www.sgm-inc.com



CMC Mini College Renovation
1402 Blake Ave.,
Glenwood Springs, CO 81601

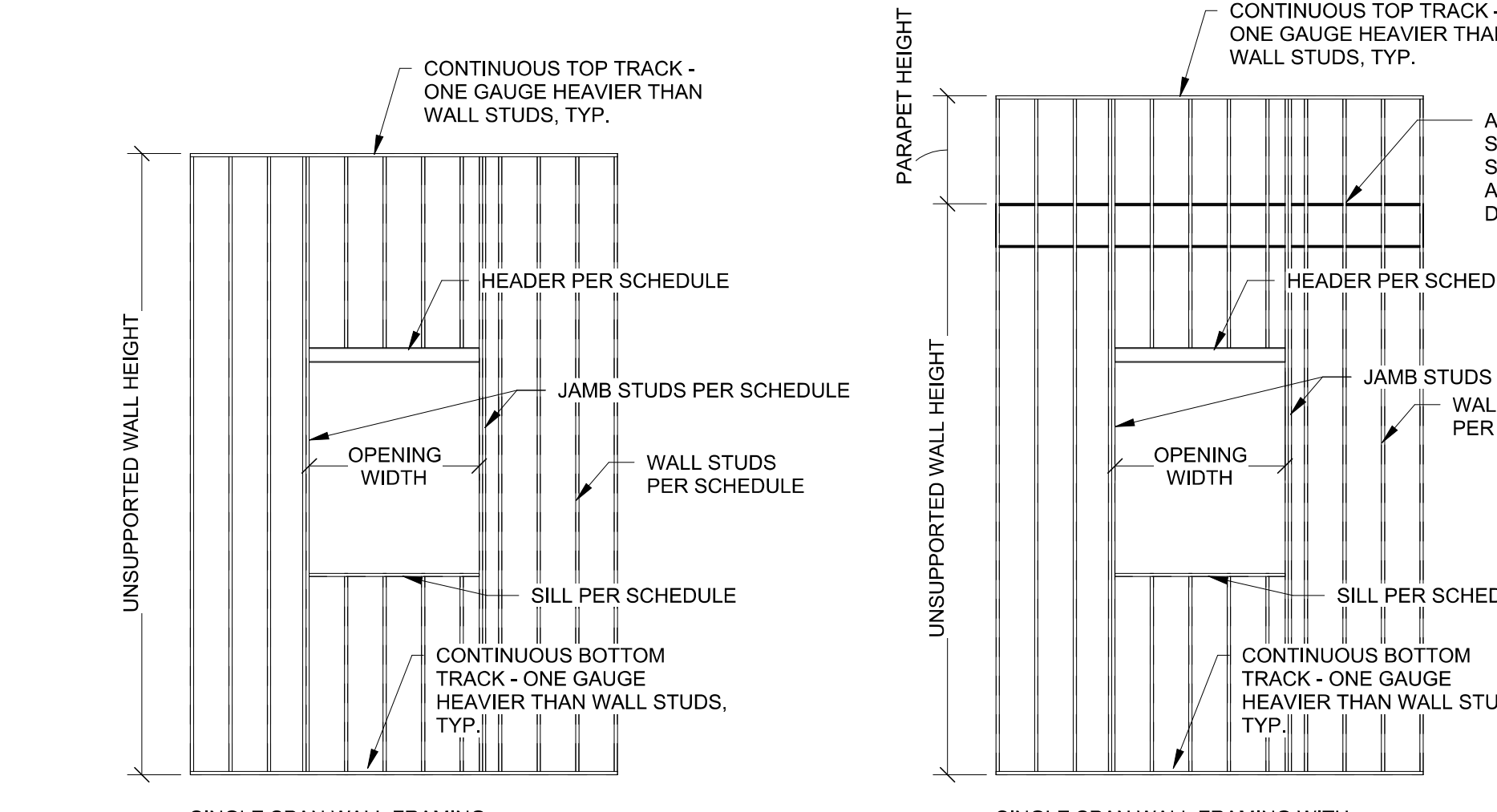
Revision table with columns for Date, By, and Revision number.

Job No. 2024-436.001
Drawn by: JRC
Date: 01/07/25
QC: JEP | PE: JEP
Revit Version: R24

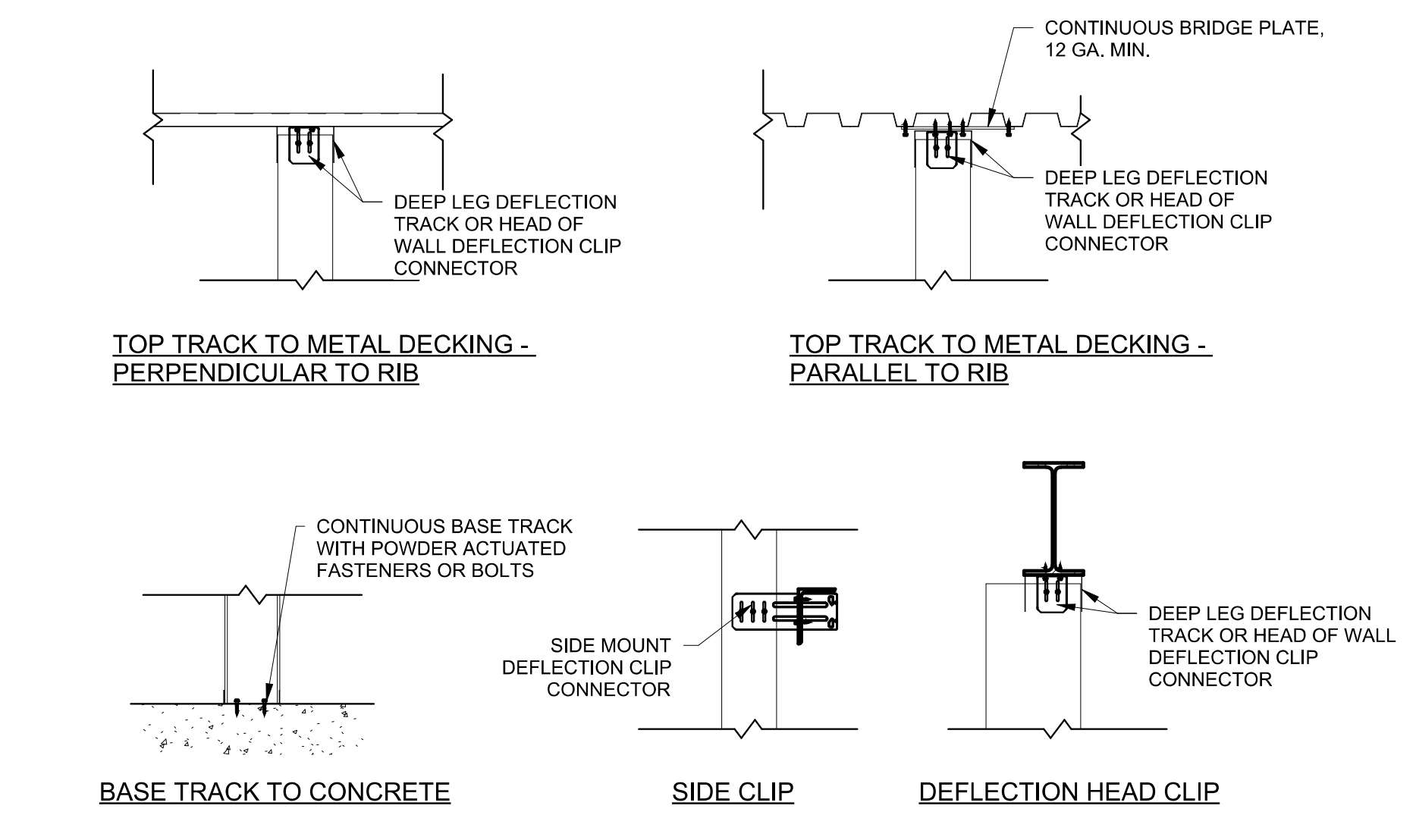
GENERAL NOTES, ANNOTATIONS, & CONCRETE DETAILS

Dwg No. S-001

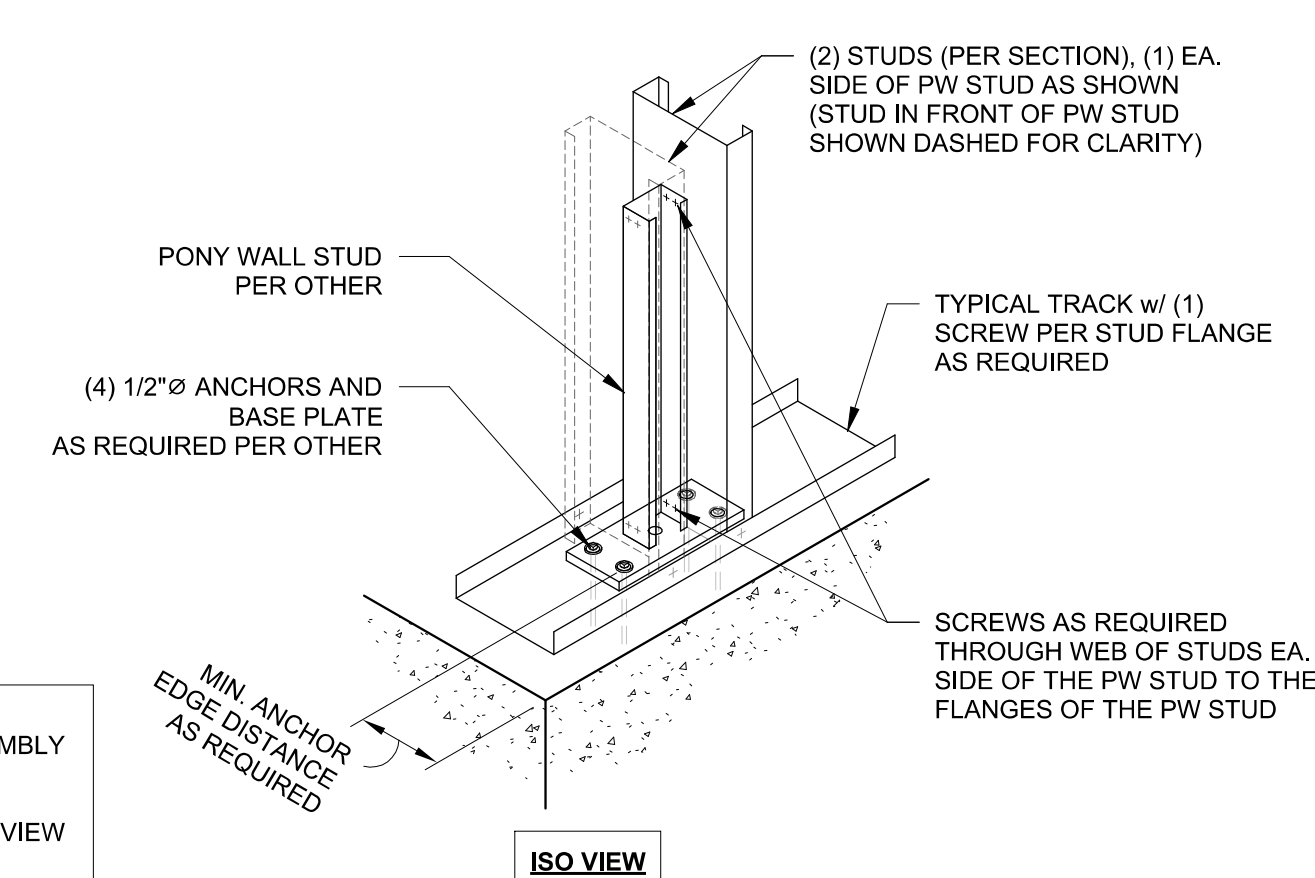
STEEL STUD WALL SCHEDULE					
UNSUPPORTED WALL HEIGHT	STUD	OPENING WIDTH	HEADER	SILL	JAMB
0 TO 14' - SINGLE SPAN	600S162-54 @ 16" O.C.	0 TO 6'-0"	2-600S300-54-FF	600T150-54	2-600S162-54-FF
		6'-1" TO 10'-0"	2-600S300-54-FF	600T200-54	2-600S162-54-FF
		10'-1" TO 15'-0"	2-800S300-68-FF	2-400S300-54	2-600S200-54-FF



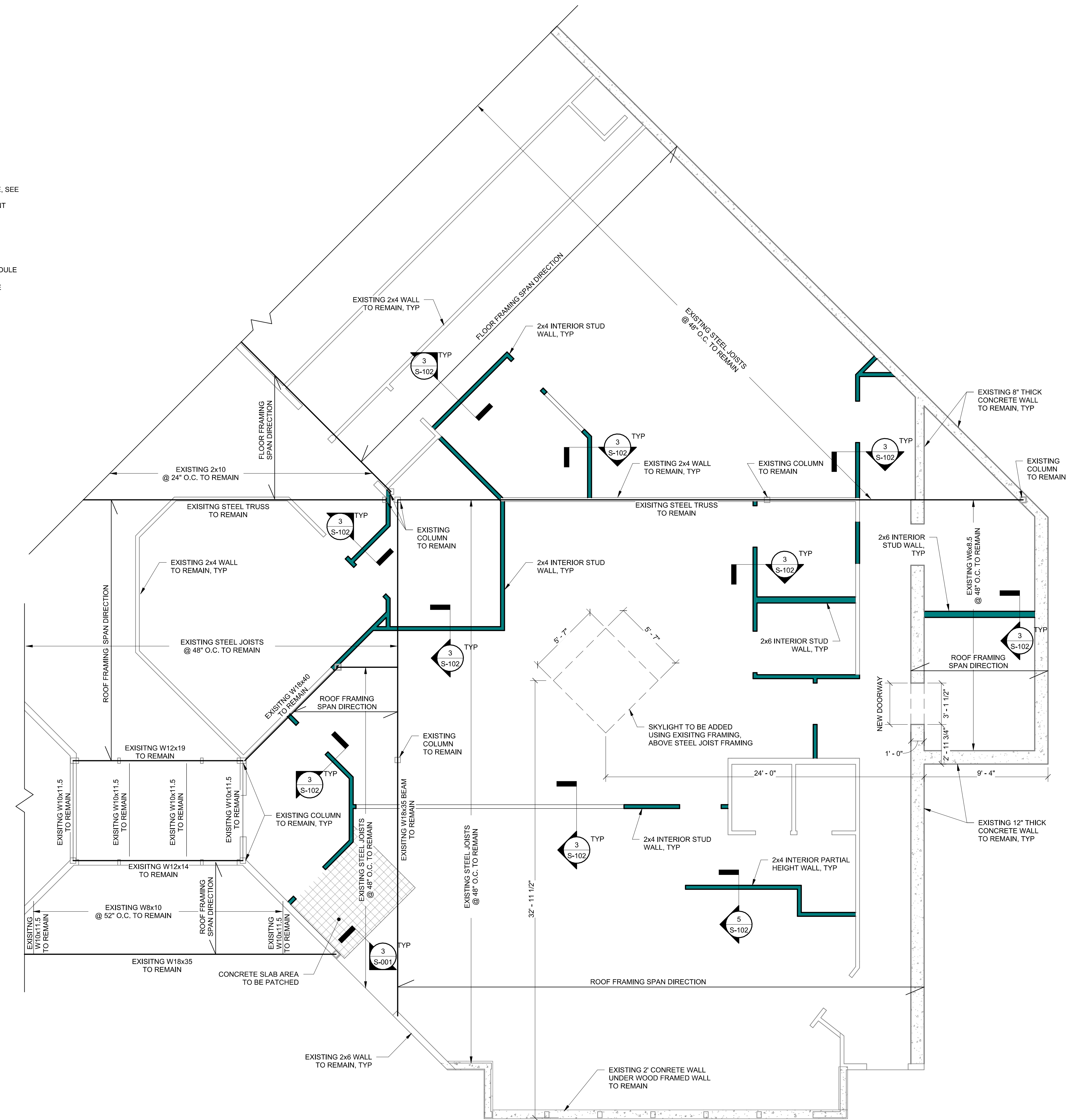
3 TYPICAL STEEL STUD WALL FRAMING
 S-102 3/16" = 1'-0"



4 TYPICAL STUD WALL ATTACHMENTS
 S-102 3/4" = 1'-0"



5 PONY WALL CONNECTION TO FLOOR
 S-102 3/4" = 1'-0"



1 1ST FLOOR FRAMING PLAN
 S-102 1/4" = 1'-0"

Project: 2024-436.001 - CMC Mini College Renovation - 11/15/24 12:54:58 PM
 C:\Users\mwood\OneDrive\Desktop\2024-436.001 - CMC Mini College Renovation - 11/15/24\11-15-24-FR-102.dwg
 Job No. 2024-436.001
 Date: 01/07/25
 QC: JEP | PE:
 Revit Version: R24

118 West Sixth Street, Suite 200
 Glenwood Springs, CO 81601
 970.945.1004
 www.sgm-inc.com

COLORADO LICENSE
 33878
 01/07/2025
 PROFESSIONAL ENGINEER

CMC Mini College Renovation

1402 Blake Ave.,

Glenwood Springs, CO 81601

Date	By

Project Milestone: Permit Set

Job No.	2024-436.001
Drawn by:	JRK
Date:	01/07/25
QC:	JEP PE:
Revit Version:	R24

Title: **FIRST FLOOR WALL AND ROOF FRAMING PLAN**

Dwg No. **S-102**