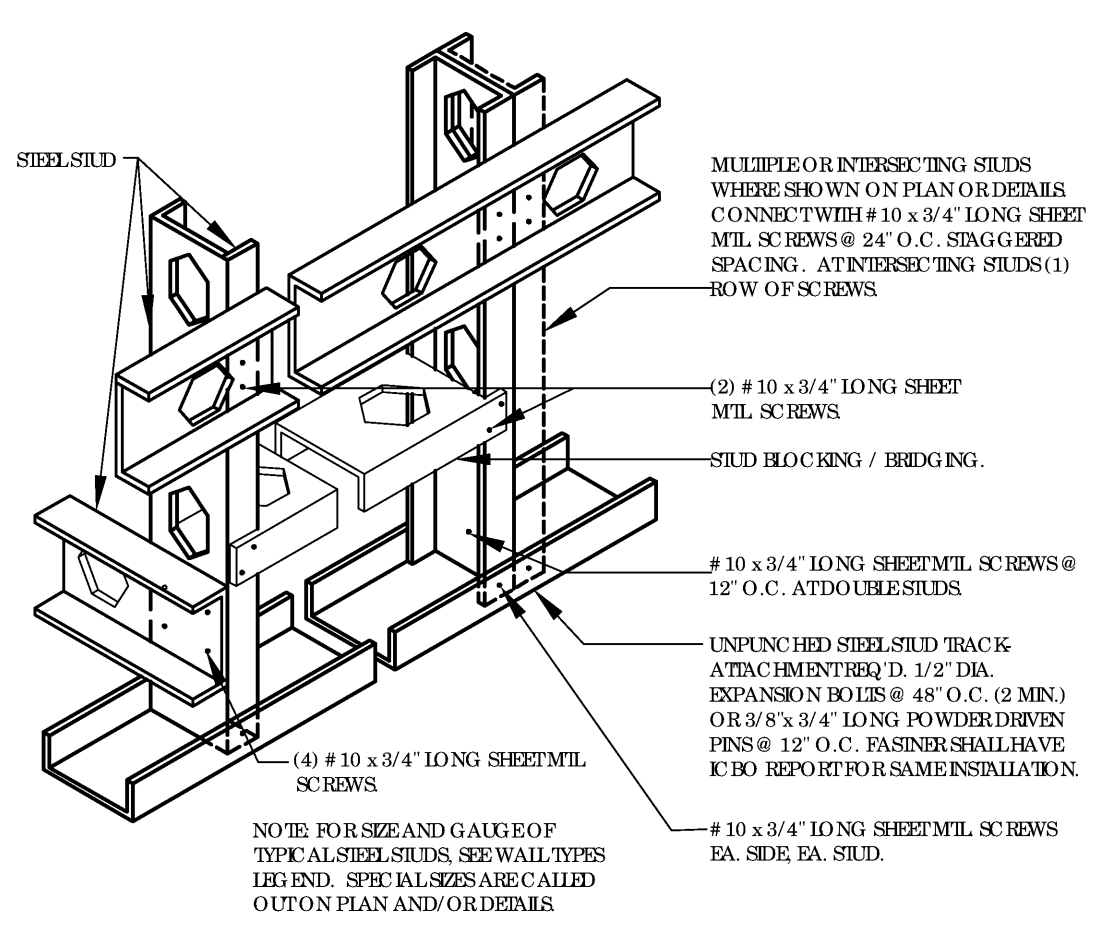
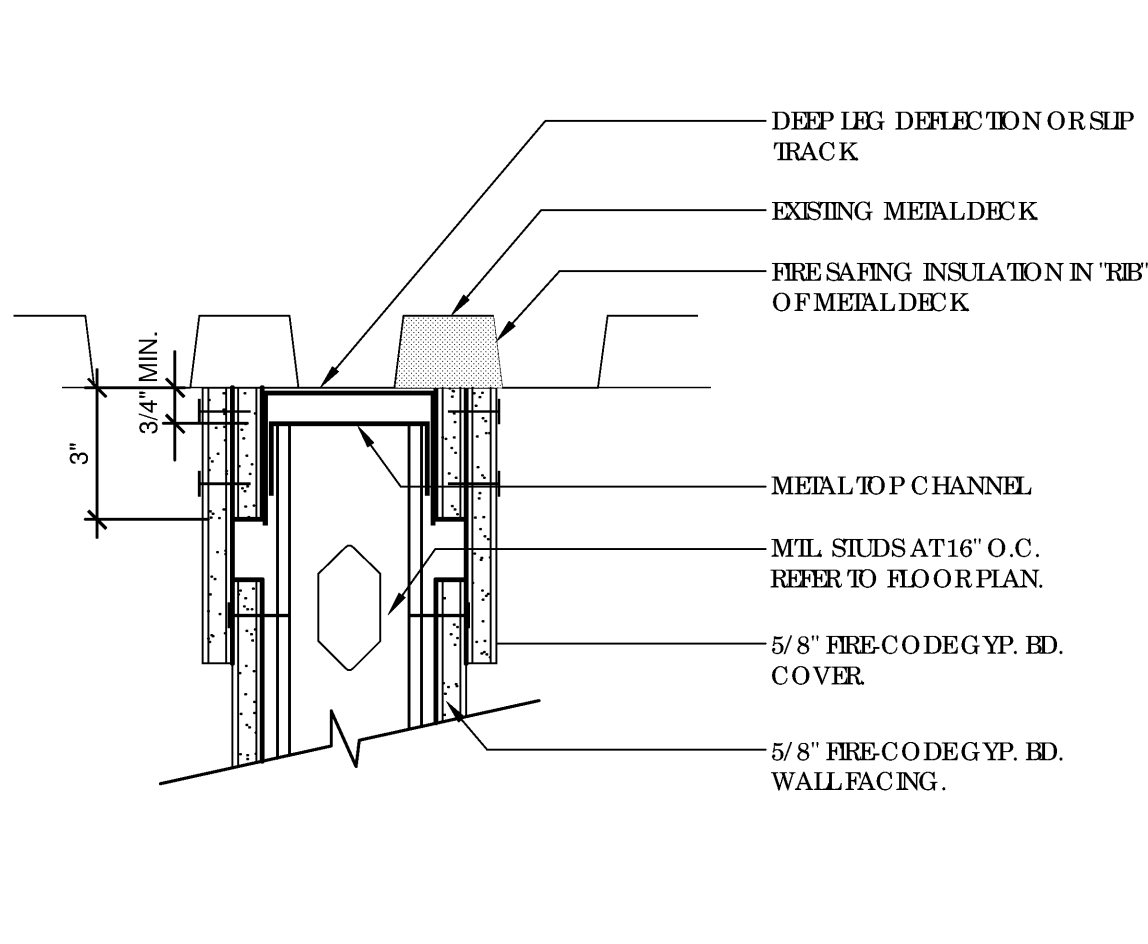


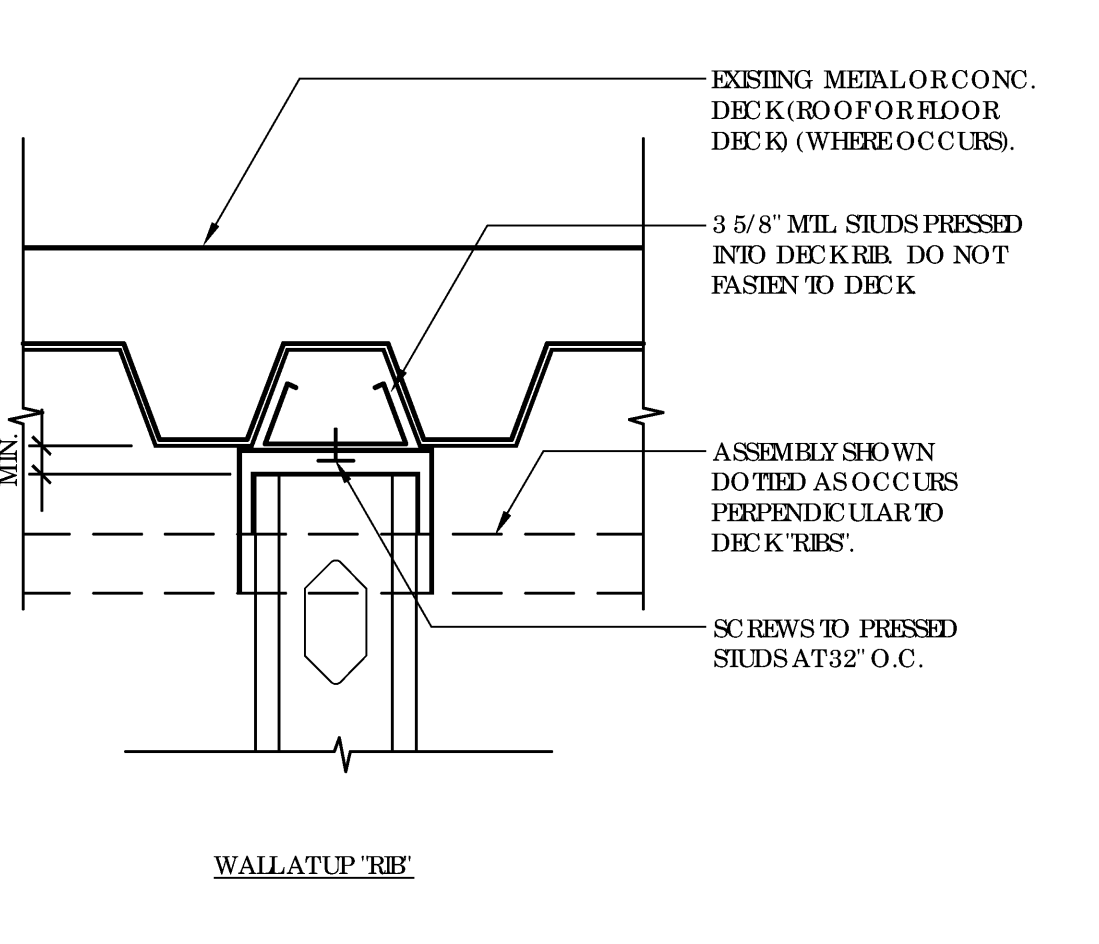
**1** **CEILING EDGE AT DECK**  
SCALE 3" = 1'-0"



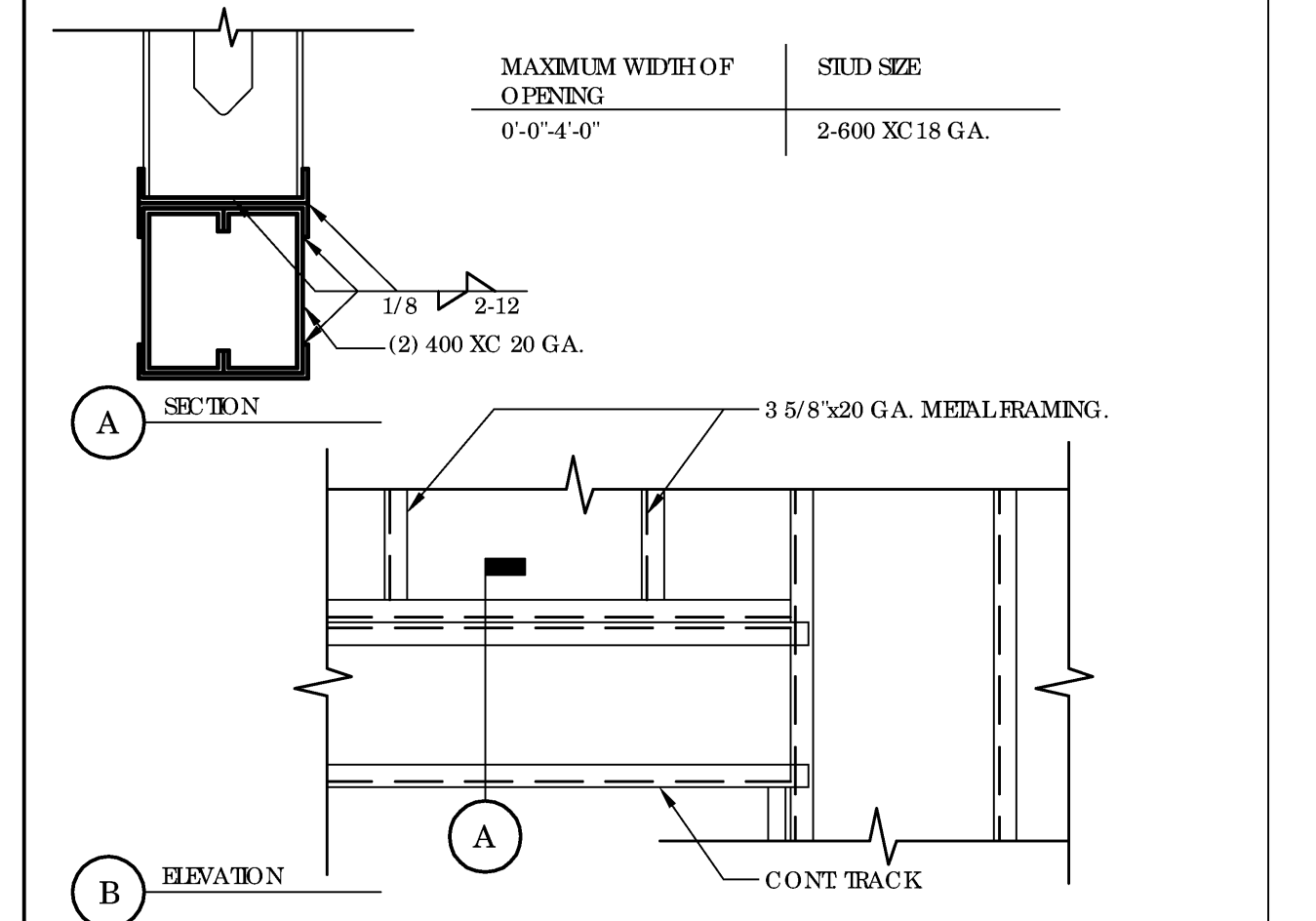
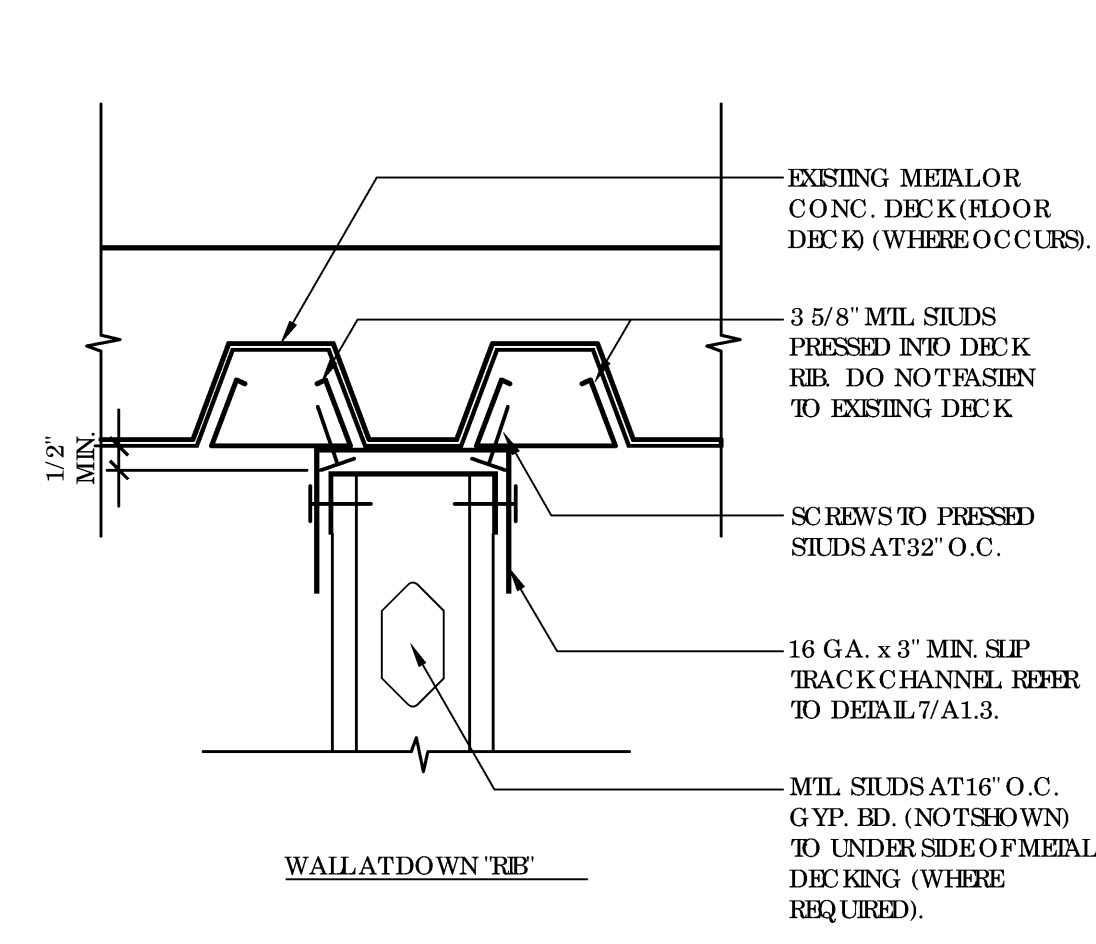
**2** **DETAIL - TYP STEEL STUD WALL SCREW CONNECTION**  
SCALE 3" = 1'-0"



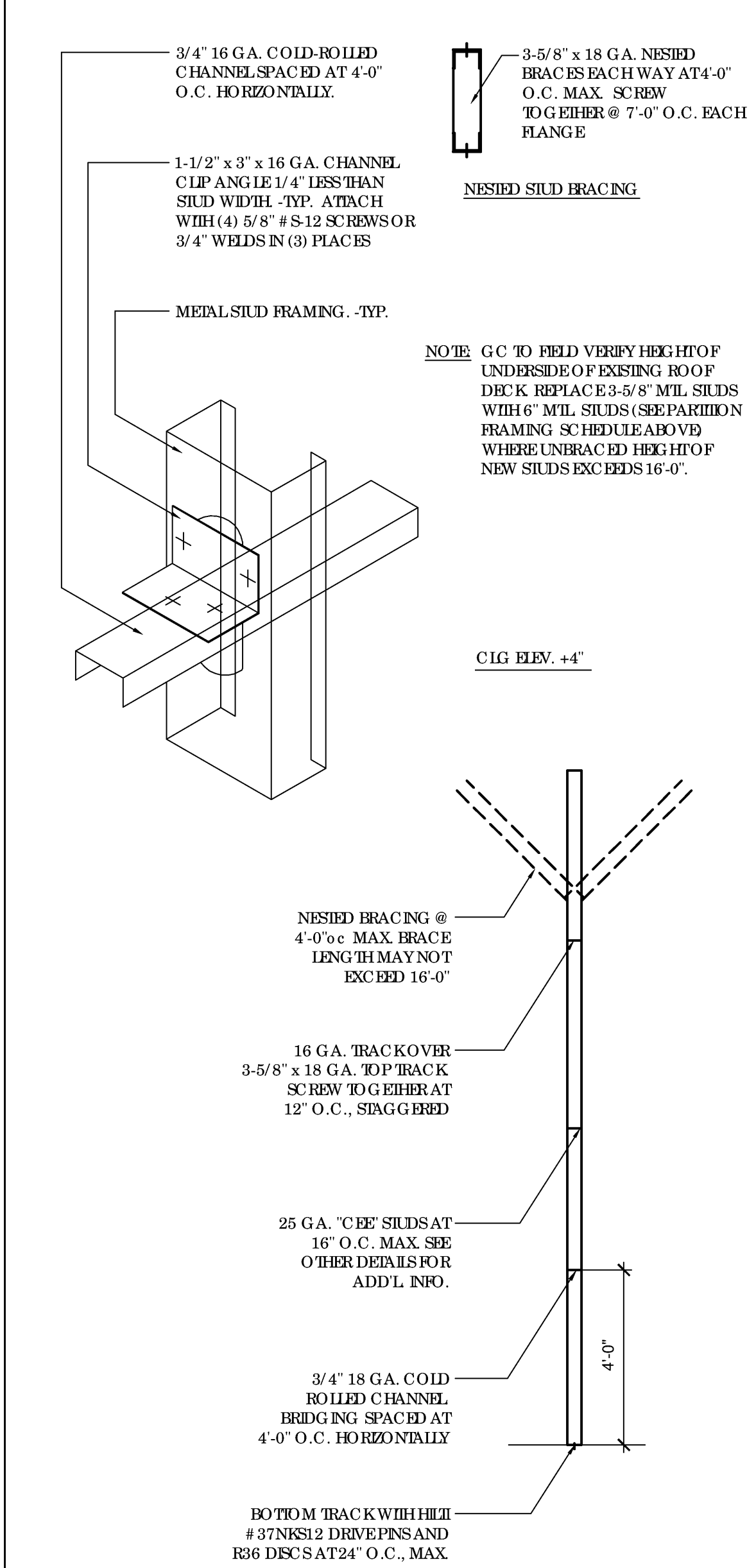
**3** **DETAIL (1-HR, FULL HEIGHT) SLIP JOINT AT DECK**  
SCALE 3" = 1'-0"



**4** **DETAIL FULL HEIGHT PARTITION TO DECK**  
SCALE 3" = 1'-0"



**5** **DETAIL HEADER IN METAL STUD WALL**  
SCALE 3" = 1'-0"



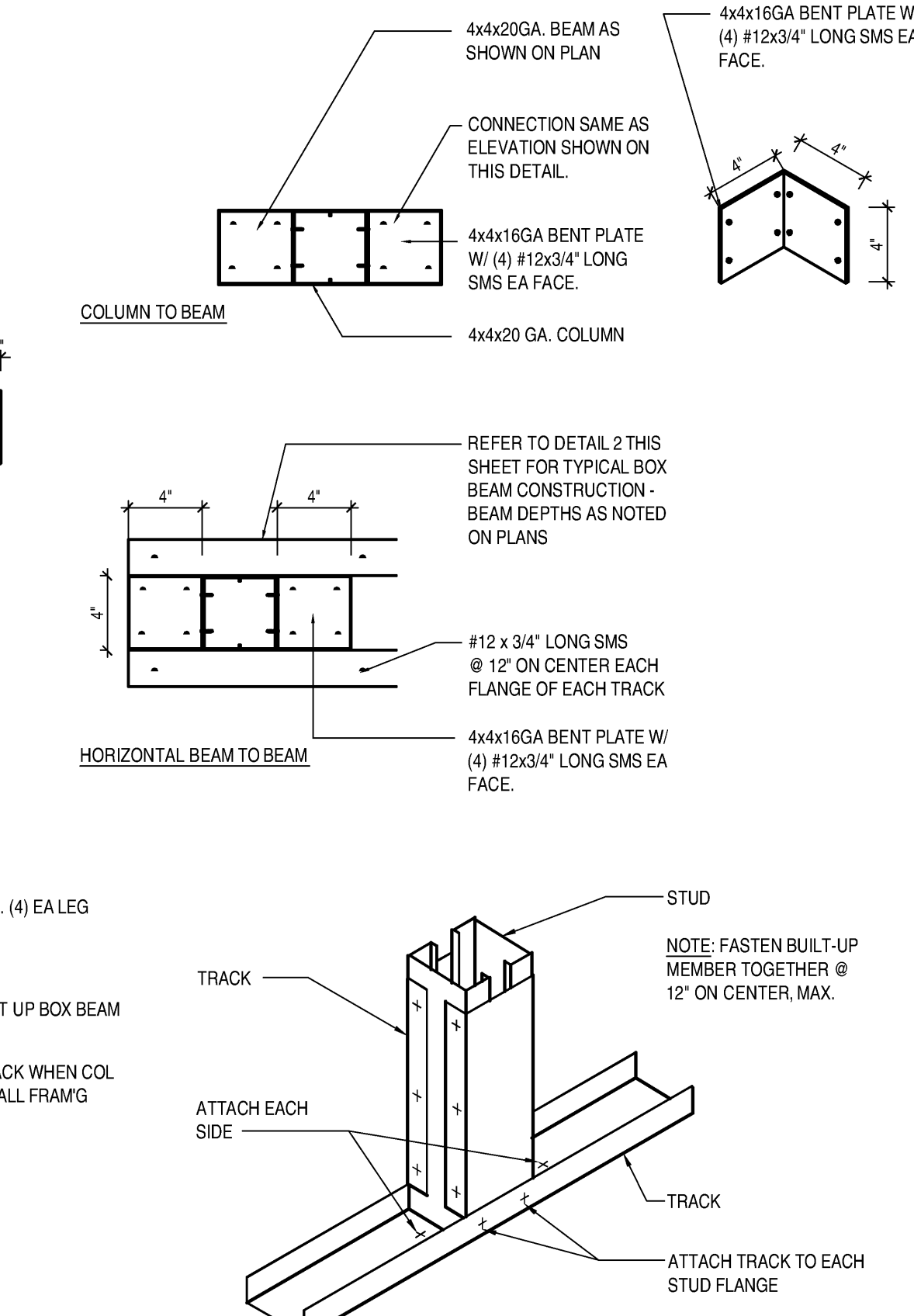
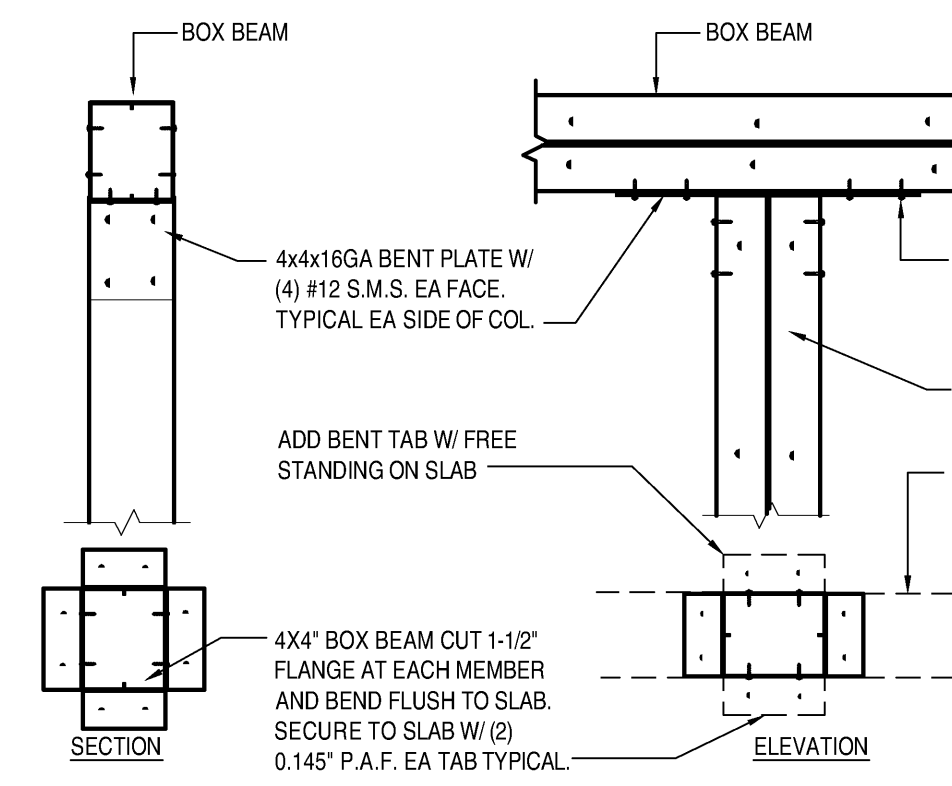
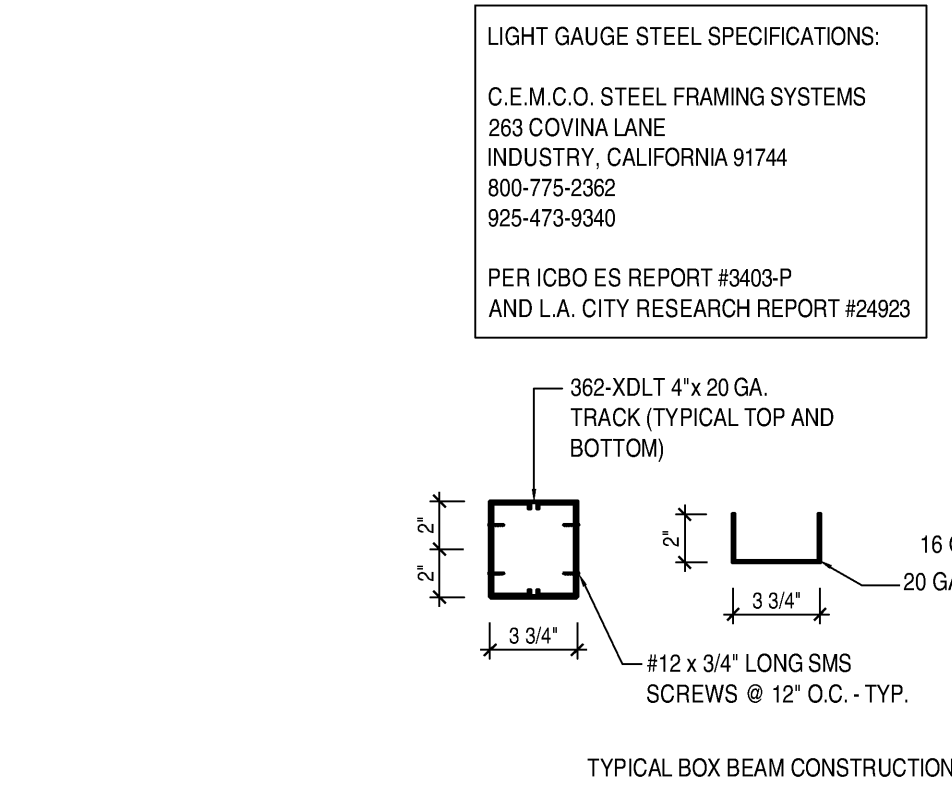
**6** **SCHEDULE & DETAILS PARTITION FRAMING**  
SCALE 1/4" = 1'-0"

HEIGHT		BOTTOM TRACK	TOP TRACK
AS NOTED	2 1/2" x 19 GA.*	2 1/2" x 18 GA.	8'-0" SPAN 2 1/2" x 16 GA.
UP TO 16 FT	3-5/8" x 25 GA.**	3-5/8" x 18 GA.	3-5/8" x 18 GA.
16 FT TO 20 FT	6" x 20 GA.	6" x 18 GA.	6" x 18 GA.
20 FT TO 26 FT	6" x 18 GA.	6" x 18 GA.	6" x 18 GA.

- \* NON-BEARING STUD WALLS ONLY.**  
**\*\* SEE PARTITION DETAIL TYPES FOR EXACT MTL. G.A. NUMBERS**
- ALL STUD WALLS AND PARTITIONS REQUIRE GYP. BD. BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS (UNLESS SPECIFICALLY NOTED OTHERWISE).
  - ALL SUSPENDED WALLS SHALL HAVE GYP. BD. WHICH EXTENDS 4" ABOVE THE SUSPENDED CEILING (UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT).
  - ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" MAX. ON CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS WITH EITHER SCREWS OR WELDS.
  - ALL STUDS SHALL BE "C" BE STUDS WITH HANGE SUPPORTS.
  - THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURERS RECOMMENDATIONS OR LOCAL ORDINANCES ARE MORE RESTRICTIVE, THEY SHALL APPLY.
  - TYPICAL FASTENERS

- A. STEEL STUDS TO STEEL STUDS OR TRACKS: # 8-18 x 1/2" TBS' 2 WITH PHIL. PAN HEAD FOR 25 GA. OR 20 GA. # 10-16 x 9/16" TBS' 3 WITH PHIL. PAN HEAD FOR INTERCONNECTION OF 18 GA. OR 16 GA.  
B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS # 14-10 x 1/2" H.W.H. TYPE 'S' METAL TO WOOD TBS.  
C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (I BEAM, WIDE FLANGE BEAMS, COLUMNS, GIRDERS, ETC.): TBS' 3 OR TBS' 4 - GATE END LONG HAS REQUIRED FOR THE COMBINED THICKNESS OF THE MATERIAL TO BE DRILLED.  
D. PLYWOOD TO STEEL STUDS: # 10-24 x 3/4" TBS' 3 (PLYWOOD TBS WITH TEN WARR HEAD).  
E. GYP. BD. TO STEEL STUDS: # 7 x 1/4" HBLD TYPE'S BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYP. BD. TO 25 GA. OR 20 GA. STUDS. # 6 x 1/4" TYPE'S 1/2" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYP. BD. TO 18 GA. . OR 16 GA. STUDS OR TRACKS

CLEAR SPAN (FT)	C.E.M.C.O. NUMBERS	SIZE DESCRIPTION
10'-0"	(2)-400 CS 16 GA.	4" DEEP, 16 GAUGE 1-5/8" FLANGES
15'-0"	(2)-600 CS 16 GA.	6" DEEP, 16 GAUGE 1-5/8" FLANGES
20'-0"	(2)-800 CS 16 GA.	8" DEEP, 16 GAUGE 1-5/8" FLANGES
25'-0"	(2)-1000 CS 16 GA.	10" DEEP, 16 GAUGE 1-5/8" FLANGES
30'-0"	(2)-1200 CS 16 GA.	12" DEEP, 16 GAUGE 1-5/8" FLANGES



- WALL ASSEMBLY: THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:  
A. STUDS: WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOMINAL 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. WITH NOM. 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. O.C.  
B. WALLBOARD, GYPSUM: NOM 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX. DIA. OF OPENINGS IS 14-1/2 IN. FOR WOOD STUD WALLS AND 18 IN. FOR STEEL STUD WALLS.  
C. THROUGH PENETRANTS: ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:  
A. STEEL PIPE: NOM. 12 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.  
B. COPPER TUBING: NOM. 6 IN. DIAM. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.  
C. COPPER PIPE: NOM. 6 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. PIPE COVERING: NOM. 1 OR 2 INCH THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN. 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM. 1 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN. 1/2 IN. TO MAX. 3/4 IN.  
SEE PIPE AND EQUIPMENT COVERING MATERIALS (BRSU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKINGS WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.  
D. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS A 3/4 HOUR WHEN NOM. 1 IN. THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR. AND 1-1/2 HR. WHEN NOM. 2 IN. THICK PIPE COVERING IS USED WITH 1 HR. AND 2 HR. FIRE RATED WALLS, RESPECTIVELY.  
E. FIRESTOP SYSTEM: INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS: A. FILL, VOID, OR CAVITY MATERIALS: WRAP STRIP-NOM. 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS. NOM. 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLIDE INTO ANNULAR SPACE APPROX. 1-1/4 IN. SUCH THAT APPROX. 3/4 IN. OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM. 1 IN. THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM. 2 IN. THICK PIPE COVERING IS USED.  
MINNESOTA MINING & MFG. CO.-FS-195+  
B. FILL, VOID, OR CAVITY MATERIALS: CAULK-MIN. 1/4 IN. DIAM. CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGES OF THE WRAP STRIP LAYER APPROX. 3/4 IN. FROM THE WALL SURFACE.  
MINNESOTA MINING & MFG. CO.-CP-25WB+  
\* BEARING THE UL CLASSIFICATION MARKING.

**8** **SECTION PIPE/ CONDUIT PENETRATION**  
SCALE 1'-0" = 1'-0"

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SPACE # 210 STORE # 786

REV	DATE	DESCRIPTION
1	07/29/14	ISSUE TO PERMIT
2	10/06/14	ISSUE TO BID
3		ELITE CONSTRUCTION GROUP
4		PHONE: 372-383-0012
5		REDUCED BY 10 PERCENT - SCALE
6		WILL BE IN PERCENT OF MATERIALS

**A13**