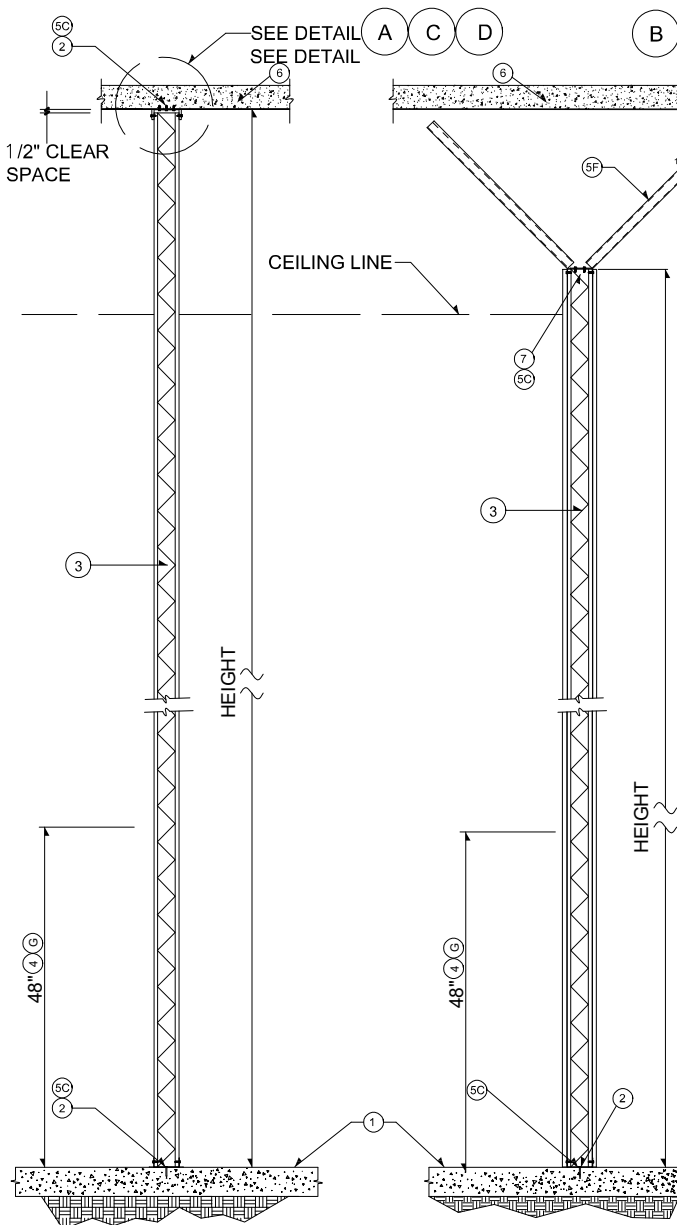


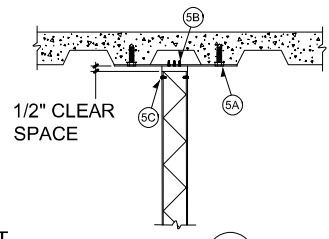
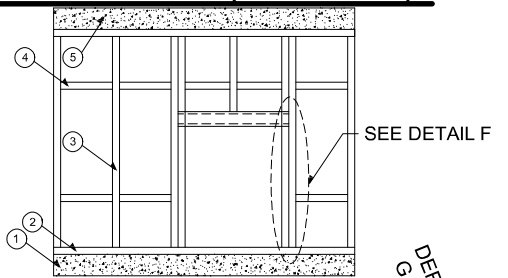
# NON - BEARING STEEL STUD WALL PARTITION DETAIL TO CONCRETE DECK (2018 IBC)



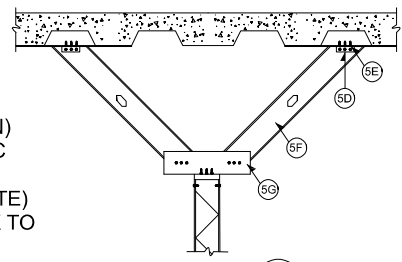
STUD HEIGHT	METAL STUD SIZE 24" O.C.
UP TO 13'-0" (SEE NOTE 9)	362S125-18
UP TO 19'-0" (SEE NOTE 9)	362S125-33
UP TO 9'-0" IF BRACED AT 48" O.C. (SEE 4)	362S125-18
UP TO 14'-0" IF BRACED AT 48" O.C. (SEE 4)	362S125-33

### LEGEND:

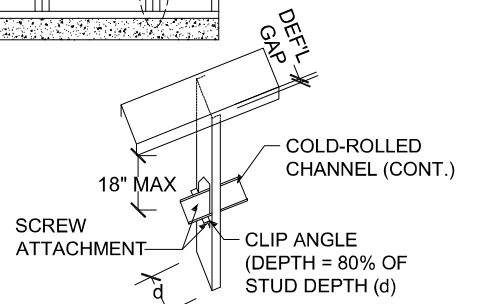
- 1) EXISTING 3.5" THICK CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH  $f_c$  2,500 PSI
- 2) TRACK SAME THICKNESS AS STUDS ATTACHED TO CONCRETE SLAB WITH HILTI POWDER ACTUATED FASTENERS 0.157"  $\phi$  X-U WITH 1.25" (MIN) PENETRATION INTO CONCRETE AT 32" O.C. OR EQUAL (ICC ESR-2269)
- 3) METAL STUDS (SEE SCHEDULE)
- 4) BRACING (SEE DETAIL E) @ 48" O.C. NOT REQUIRED IF COMPOSITE CONSTRUCTION (SEE NOTE 9)
- 4A) 75U050-54 AT 48" O.C.
- 4B) 1.5"x1.5"x3" LONG X 16GA WITH 2-#8 SCREWS AT STUD AND 2-#8 SCREWS AT 75U050-54 TOP TRACK
- 5) 18" LONG X 6" WIDE 12 GA PLATE WITH 2-0.157"  $\phi$  X-U WITH 1.25" (MIN) PENETRATION INTO CONCRETE (ICC ESR-2269)
- 5B) 3-#10 SCREWS (TOP TRACK TO PLATE)
- 5C) #10 SCREW EACH SIDE (TOP TRACK TO STUD) (TYP)
- 5D) 2"x2"x16GAX18" LONG ANGLE WITH 2-HILTI 0.157"  $\phi$  X-U WITH 1.25" (MIN) PENETRATION INTO CONCRETE (ICC ESR-2269)
- 5E) 3-#10 SCREWS (BRACE TO ANGLE)
- 5F) 362S125-33 BRACE AT 48" O.C. UP TO 8' LONG
- 5G) 2"x2"x16GAX18" LONG ANGLE ATTACHED WITH 3-#10 SCREWS TO TOP BRACE AND 3-#10 SCREWS TO TOP TRACK
- 6) EXISTING CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH  $f_c$  OF 3,000 PSI OVER PROFILE STEEL DECK
- 7) CLIP BRACE FLANGE TO FORM SHOE WITH 2-#10 SCREWS OR SEE DETAIL B



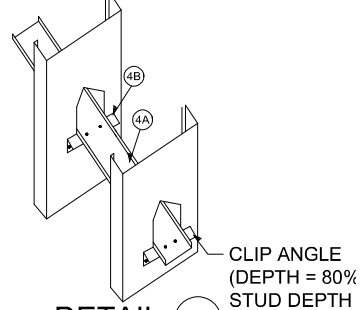
DETAIL A



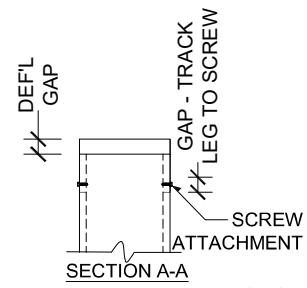
DETAIL B



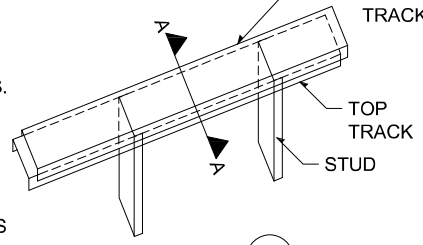
DETAIL D



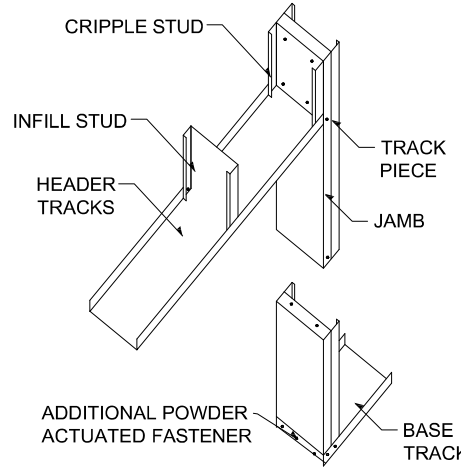
DETAIL E



SECTION A-A



DETAIL C



DETAIL F

- ### NOTES:
- 1) MAXIMUM DOOR/WINDOW OPENING 4' - 0"
  - 2) 5 PSF MAX. LATERAL LOAD.
  - 3)  $F_y$  (MIN.) = 33 KSI.
  - 4) L/120 DEFLECTION LIMIT.
  - 5) FOR H > 18' - 0" AND BRACING > 8' - 0", SUBMIT ENGINEERING DESIGN AND DETAILS.
  - 6) THE DETAILS SHOWN ARE INTENDED TO SERVE AS A GUIDE ONLY. THE DESIGN PROFESSIONAL MAY SUBMIT ALTERNATE DESIGN AND DETAILS THAT COMPLY WITH THE 2018 IBC.

- 7) NOT APPLICABLE TO SHEAR WALLS.
- 8) SEE ARCHITECTURAL REQUIREMENTS FOR RATED WALLS.
- 9) COMPOSITE LIMITING HEIGHTS ARE BASED ON A SINGLE LAYER OF 5/8" TYPE X GYPSUM BOARD INSTALLED IN THE VERTICAL OR HORIZONTAL ORIENTATION TO BOTH SIDES OF THE WALL OVER FULL HEIGHT USING MINIMUM NO. 6 TYPE S DRYWALL SCREWS SPACED A MAXIMUM OF 12" O.C. FOR STUDS AT 24" SPACING, AND 16" O.C. FOR STUDS AT 16" AND 12" SPACING.