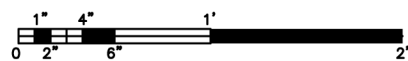
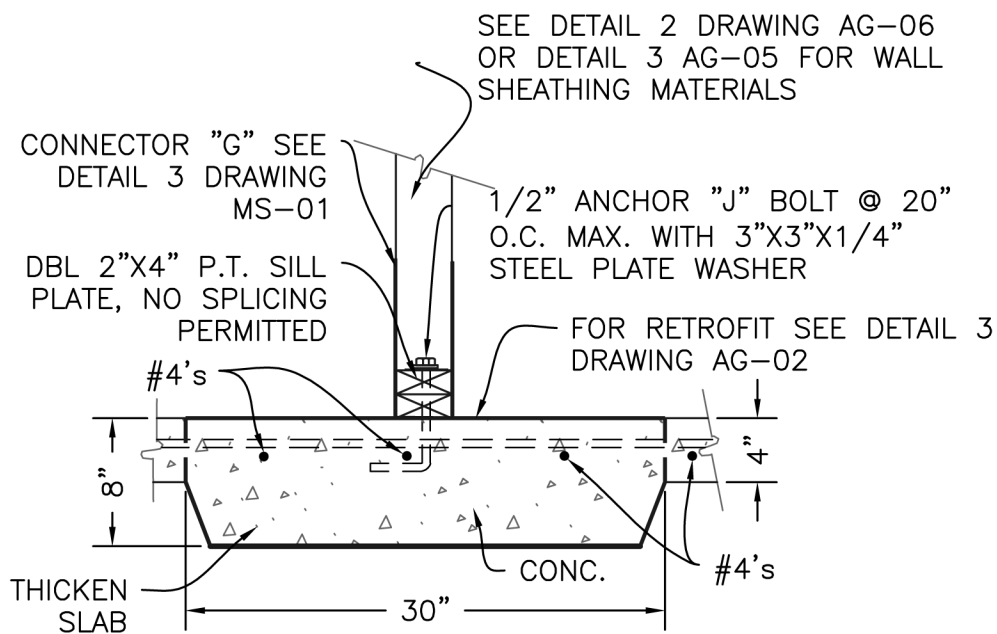


**ALTERNATIVE 1 OF 2**  
**1 TYPICAL HOLD DOWN ANCHOR DETAIL FOR WOOD**

AG-07 SCALE: 1"=1'-0"

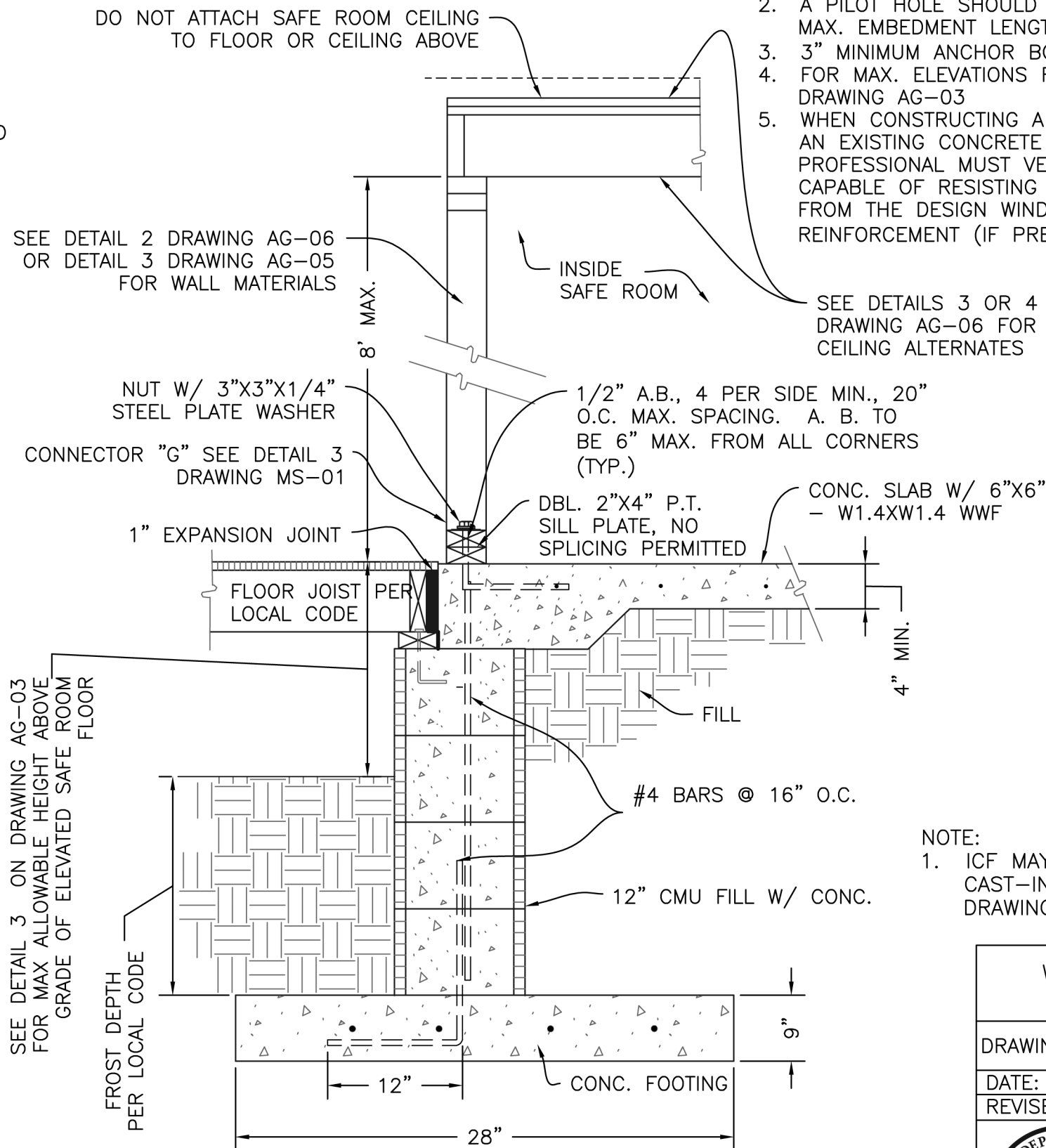
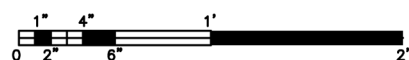


\* NOTE:  
 IF A DIRECT DOWEL FOUNDATION IS TO BE USED, THE OVERALL HEIGHT OF THE SAFE ROOM CANNOT EXCEED THE SHORTEST PLAN DIMENSION BY 10%. (I.E. IF THE SHELTER MEASURES 8'x6' IN PLAN DIMENSION, THE MAXIMUM OVERALL HEIGHT OF THE SHELTER IS 6'-7").



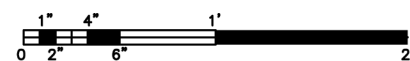
**ALTERNATIVE 2 OF 2**  
**2 TYPICAL ANCHOR DETAIL NEW SLAB-ON-GRADE FOUNDATION WITH WOOD WALLS**

AG-07 SCALE: 1"=1'-0"



**3 ANCHOR DETAIL FOR CRAWLSPACE FOUNDATION WITH WOOD WALLS**

AG-07 SCALE: 1"=1'-0"



**NOTES:**

1. TO OBTAIN FULL A.B. PULLOUT RESISTANCE, THE BOTTOM OF THE DRILLED HOLE FOR A.B. SHOULD BE NO CLOSER THAN 1/2" TO THE BOTTOM OF THE CONC. SLAB.
2. A PILOT HOLE SHOULD BE DRILLED TO DETERMINE THE MAX. EMBEDMENT LENGTH.
3. 3" MINIMUM ANCHOR BOLT EMBEDMENT DEPTH
4. FOR MAX. ELEVATIONS FOR SAFE ROOMS SEE DETAIL 3 DRAWING AG-03
5. WHEN CONSTRUCTING A WOOD-FRAMED SAFE ROOM ON AN EXISTING CONCRETE SLAB, A REGISTERED DESIGN PROFESSIONAL MUST VERIFY THAT THE EXISTING SLAB IS CAPABLE OF RESISTING LOADS IMPARTED ON THE SLAB FROM THE DESIGN WIND LOAD DUE TO ITS WEIGHT AND REINFORCEMENT (IF PRESENT IN THE SLAB).

**NOTE:**

1. ICF MAY BE USED AS ALTERNATIVE TO CAST-IN-PLACE CONCRETE, SEE DRAWINGS AG-08 AND AG-09.

WOOD-FRAME SAFE ROOM -  
 FOUNDATION SECTIONS

DRAWING NO: AG-07 SHEET 12 OF 18

DATE: OCTOBER 1998

REVISED: AUGUST 2008 REV. NO. 2



**FEMA**