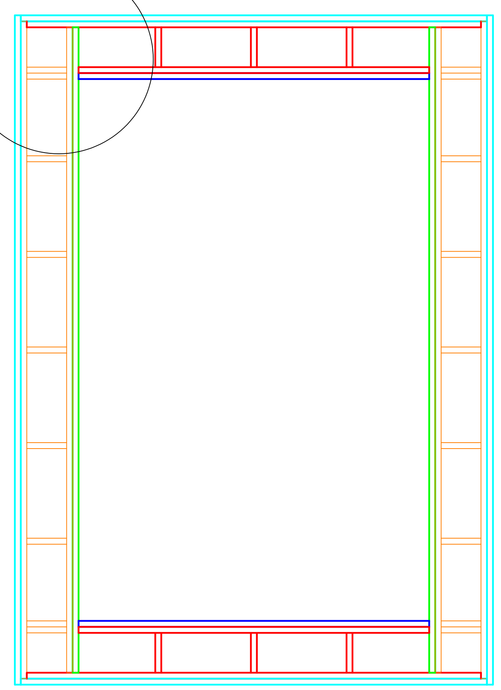
DETAIL B



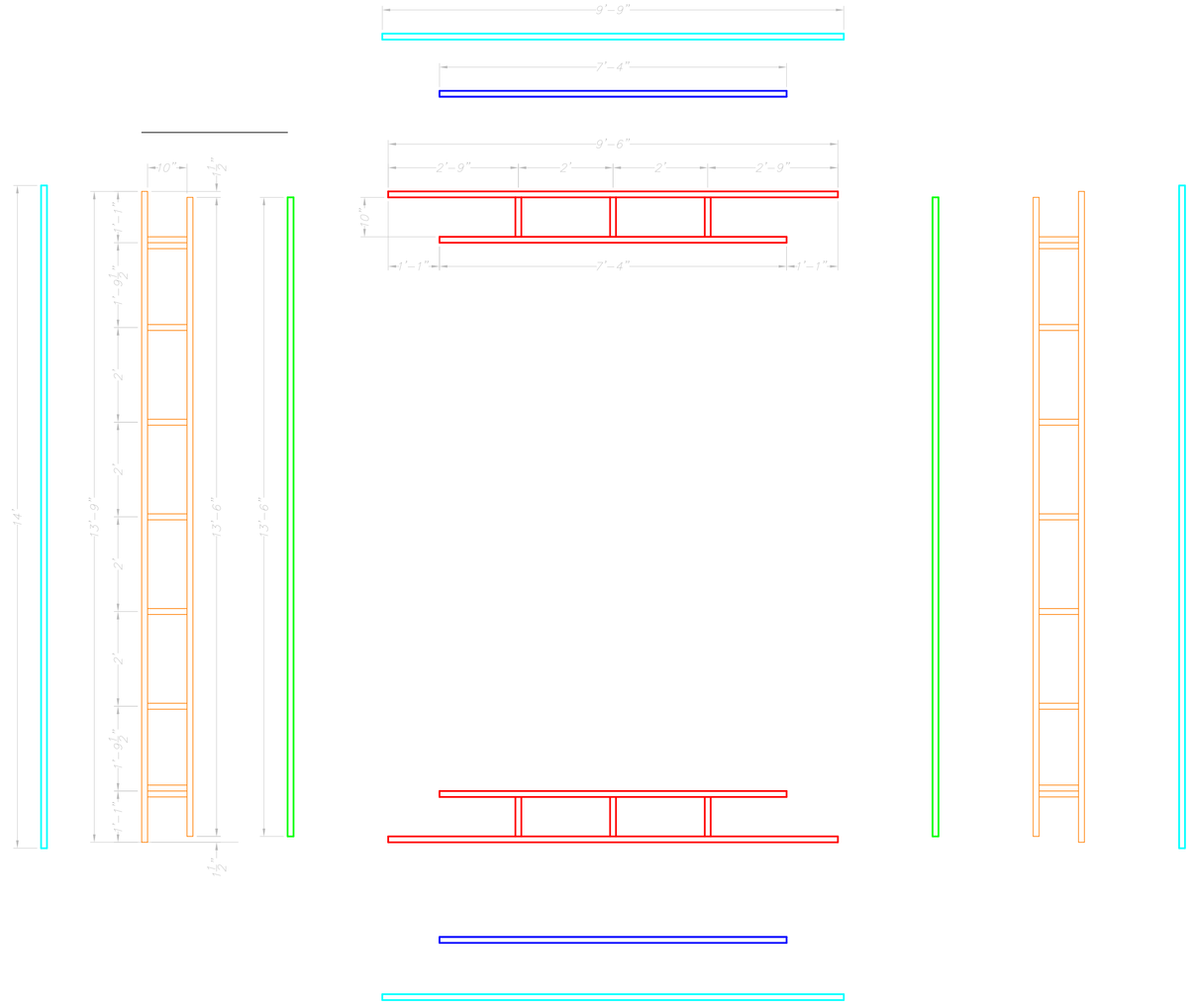
STEPS FOR BUILDING TOP PLATE

- build end ladders
- attach 2x6s to inside and 15" plywood to bottoms of end ladders (DETAIL B-1)
- build side ladders and attach 15" plywood to bottoms (DETAIL B-2)

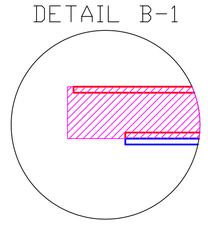
after placing the end ladders on the walls

- use 2x6 to connect end ladders together (DETAIL B-3) (NOTE A)
- place side ladders on walls and attach to end ladders (DETAIL B-4)
- attach outside 2x6s to side ladders (DETAIL B-5)
- apply vapour barrier to tops of top plates and tape
- install 18" plywood overlapping from end ladders onto side ladders

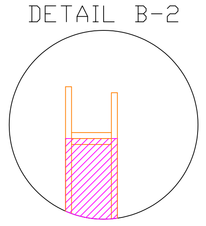
NOTE: This order of operations for the assembly of the top plate allows for placement of nails (or screws) as indicated in details for maximum strength.



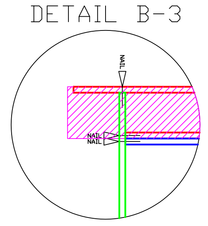
DETAIL B-1



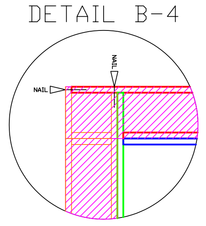
DETAIL B-2



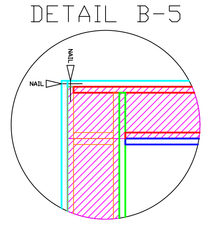
DETAIL B-3

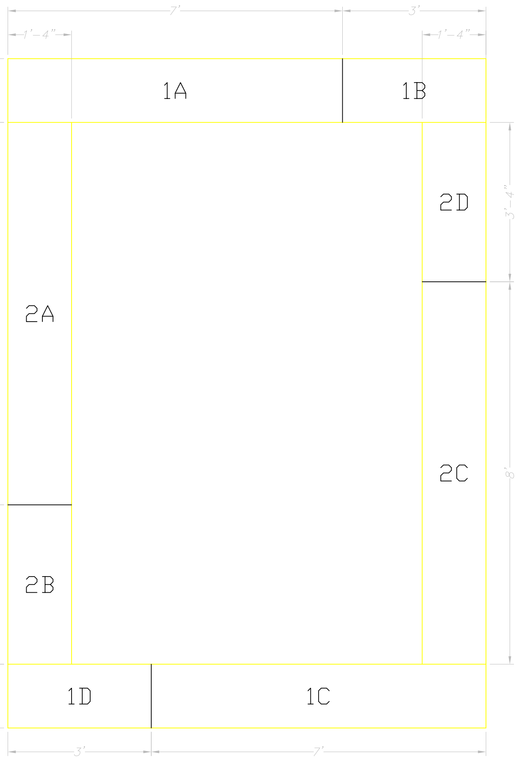


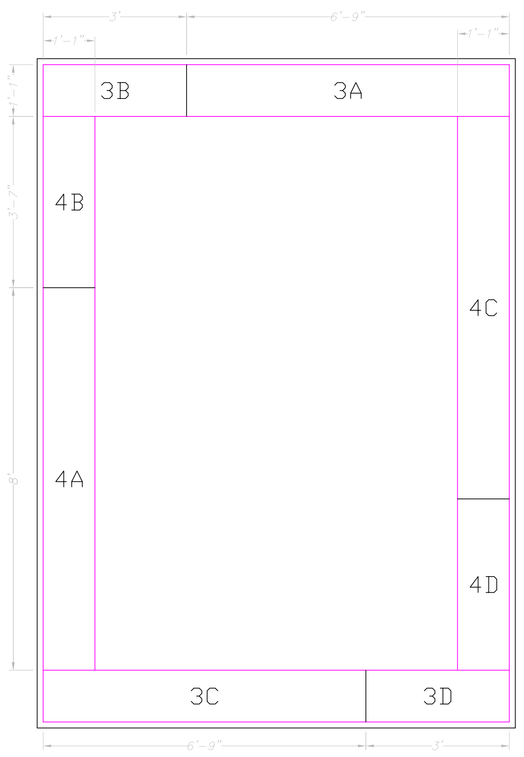
DETAIL B-4



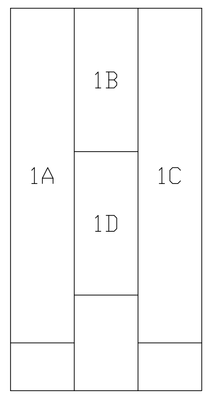
DETAIL B-5



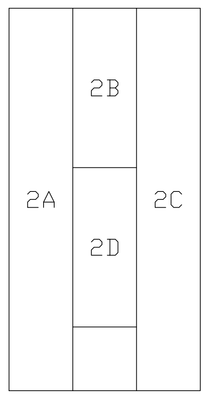




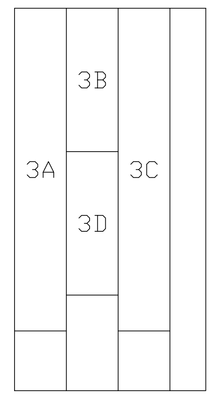
SHEET 1



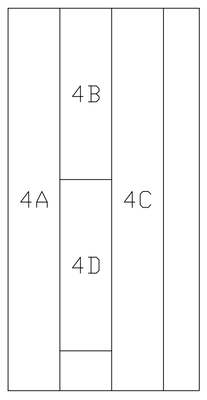
SHEET 2



SHEET 3



SHEET 4



½"

CUTTING LIST

RED
2 x 2x4 x 9' 6" (cut 12" leaves 2 x 10")
2 x 2x4 x 7' 4" (cut 8')
6 x 2x4 x 10"

BLUE
2 x 2x6 x 9' 9" (cut 12")
2 x 2x6 x 7' 4" (cut 8')

YELLOW
2 x 2x4 x 13' 9" (cut 16' leaves 2 x 10")
2 x 2x4 x 13' 6" (cut 16' leaves 2 x 10")
18 x 2x4 x 10"

GREEN
2 x 2x6 x 13' 6" (cut 16')

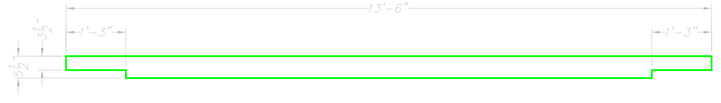
CYAN
2 x 2x6 x 14' (cut 16')

BLOCKING
2 x 2x4 x 8' (9 x 10" each)

PLYWOOD (½" FIR)
Sheet 1 - rip into 16" strips then cross cut two strips 84" long and cross cut third strip into two 36" pieces
Sheet 2 - rip into 16" strips then cross cut one strip into two 40 inch pieces
Sheet 3 - rip into 13" strips the cross cut two strips 81" long and cross cut third strip into two 36" pieces
Sheet 4 - rip into 13" strips then cross cut one strip into two 43" pieces

TOTAL LUMBER

4 - 2x4x8
2 - 2x4x12
4 - 2x4x16
2 - 2x6x8
2 - 2x6x12
4 - 2x6x16
4 - 4x8x½" FIR PLYWOOD



NOTE A

It is best to cut a 2" x 15" notch out of the end of the 2x6s which get attached to the inside of the side top plate ladders. This allows the 2x6 to cross completely over the lole wall and form a much stronger connection to the end top plate ladders.