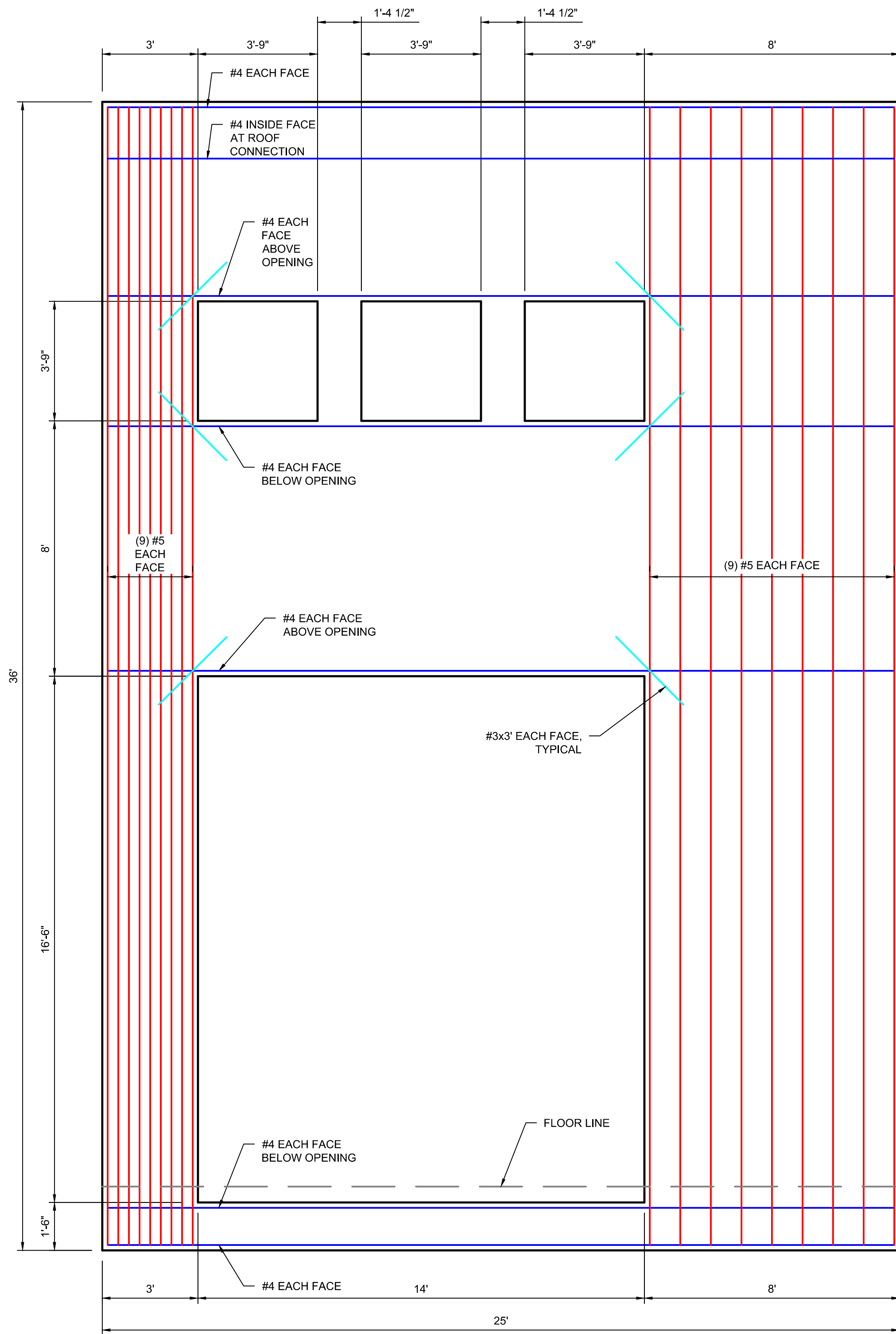
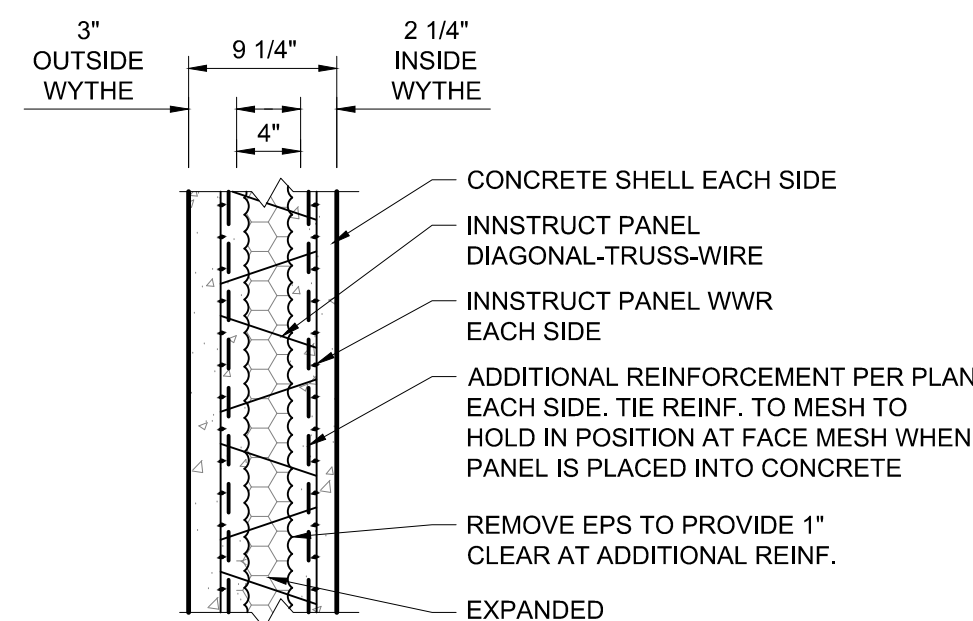


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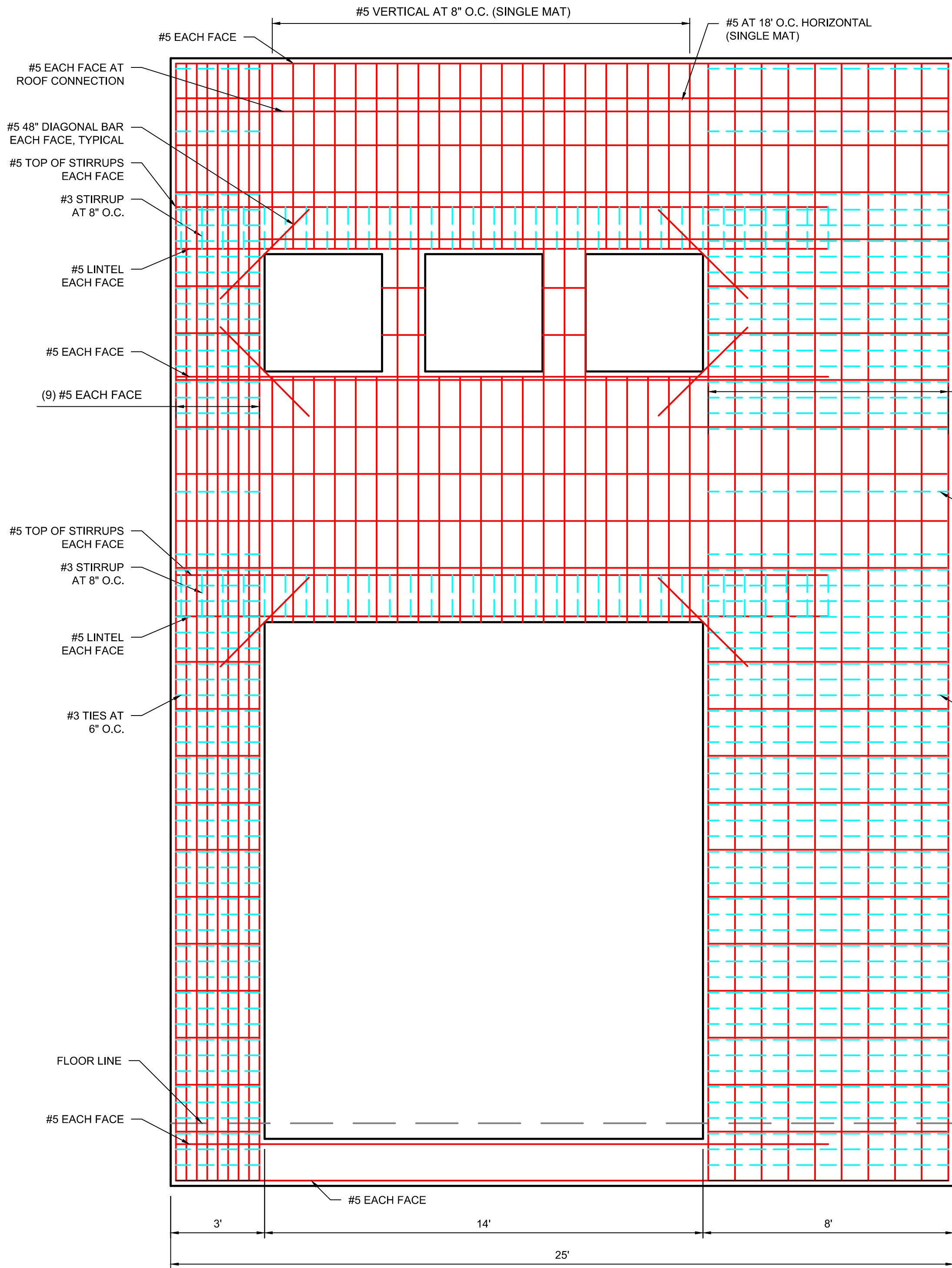


TIPS REINFORCING
3/8" = 1'-0"

TIPS
3" EXTERIOR CONCRETE WYTHE (COMPOSITE)
4" EPS INSULATION
2.25" INTERIOR CONCRETE WYTHE (COMPOSITE)
9.25" TOTAL THICKNESS

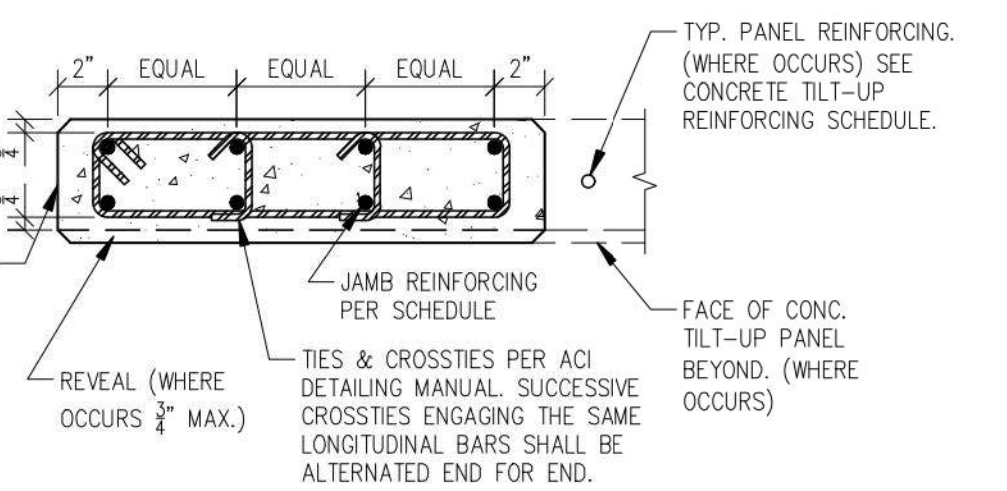


TYPICAL TIPS SECTION
SCALE: NTS

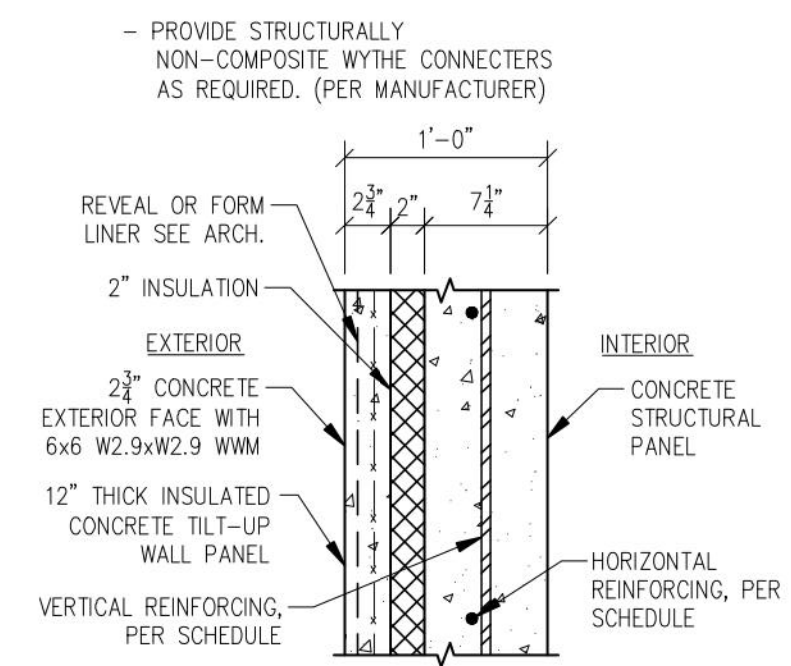


ORIGINAL PANEL REINFORCING
3/8" = 1'-0"

INSULATED PANEL
2.75" EXTERIOR CONCRETE WYTHE (NON-COMPOSITE)
2" RIGID INSULATION
7.25" INTERIOR CONCRETE WYTHE (NON-COMPOSITE)
12" TOTAL THICKNESS



TYPICAL DOUBLE CURTAIN JAMB
SCALE: NTS



INSULATED PANEL DETAIL
SCALE: NTS

LIMITATION OF COMPARISON:
ORIGINAL PANEL DRAWINGS ARE BASED ON PROJECT PLANS

TIPS COMPARISON DRAWINGS ARE PRELIMINARY AND ARE SUBJECT TO CHANGE BASED ON FINAL DESIGN.

BAR SIZE LEGEND:

- #3 - CYAN
- #4 - BLUE
- #5 - RED
- #6 - GREEN
- #7 - PURPLE
- #8 - PINK

TIE BAR - - - - (SIZE PER COLOR)

NO.	REVISIONS	BY	DATE

FORSGREN Associates, Inc.
95 WEST 100 SOUTH, STE. 115, LOGAN, UT 84321
PH: 435.227.0334
FAX: 435.227.0334

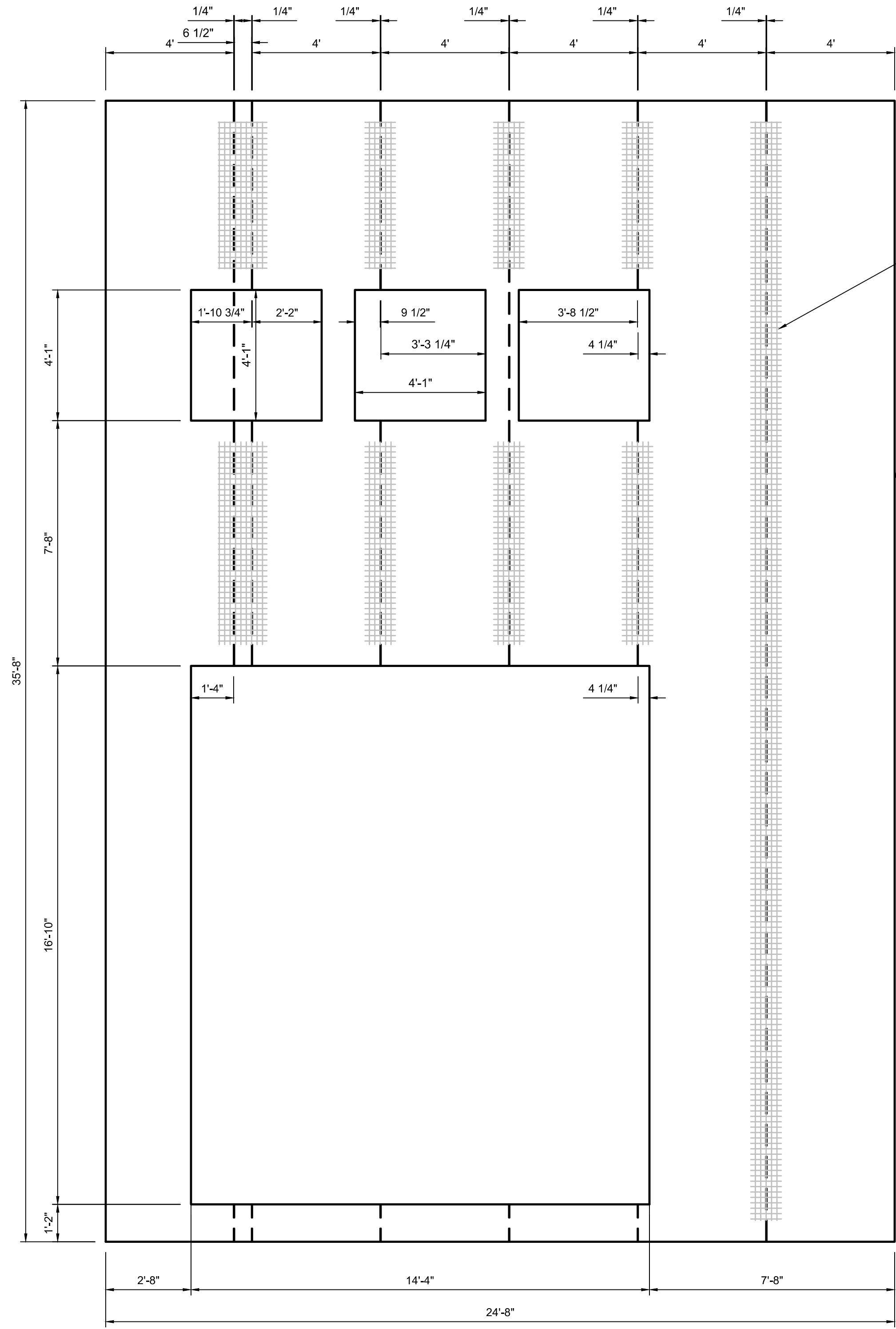
PRELIMINARY DRAWING NOT FOR CONSTRUCTION

PROJECT NO. 1
DRAWN
DESIGNED
APPROVED
DATE

INNOVATIVE STRUCTURAL SOLUTIONS

PROJECT 1B TIPS COMPARISON

SHEET NO:
DATE: NOVEMBER 2020
PAGE NO:



TIPS LAYOUT
3/8" = 1'-0"

NO.	REVISIONS	BY	DATE

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PRELIMINARY DRAWING NOT FOR CONSTRUCTION

PROJECT NO. 1
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INNOVATIVE STRUCTURAL SOLUTIONS

PROJECT 1B
TIPS COMPARISON

SHEET NO:
DATE: NOVEMBER 2020
PAGE NO:

INNSTRUCT | Total Integrated Panel System (TIPS)

Basic Design Comparison and Material Displacement Estimate

Project: **1B**

Prepared by:

Kim D. Blackburn

Panel Description: S100 overhead & windows

Date:

1/1/2021

Total Wall Square Feet: 23,688

Total Panels in Project: 35

Panel Configuration:

- 4 Number of Similar Panels in Project
- 36.00 Height (ft)
- 25.00 Width (ft)
- 273 Area of Openings (ft²) 14 x 16.5 & (3) 3.75 x 3.75
- 627 Panel Area (ft²)
- 150 Concrete Weight (lbs./ft³)



Original Design Configuration:

3	Architectural Wythe (in)
2	Insulation (in)
7.25	Structural Wythe (in)
10.25	Concrete Thickness (in)
12.25	Total Thickness (in)
15.1	R-value Materials Only

Innstruct | TIPS Design Configuration:

3	Outside Wythe (in)
4	Insulation (in)
2.25	Inside Wythe (in)
5.25	Concrete Thickness (in)
9.25	Total Thickness (in)
22.6	R-value Materials Only

Design Comparison | Material Displacement:

Original Design

Material	Amount	Units
Concrete	20	cubic yds
Reinforcement	3,345	lbs.
Panel Weight	83,654	lbs.

TIPS Design

Amount	Units	% Reduced
10	cubic yds	49%
893	lbs.	73%
42,027	lbs.	50%

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BETTER PANEL | LESS EFFORT | MORE PROFIT