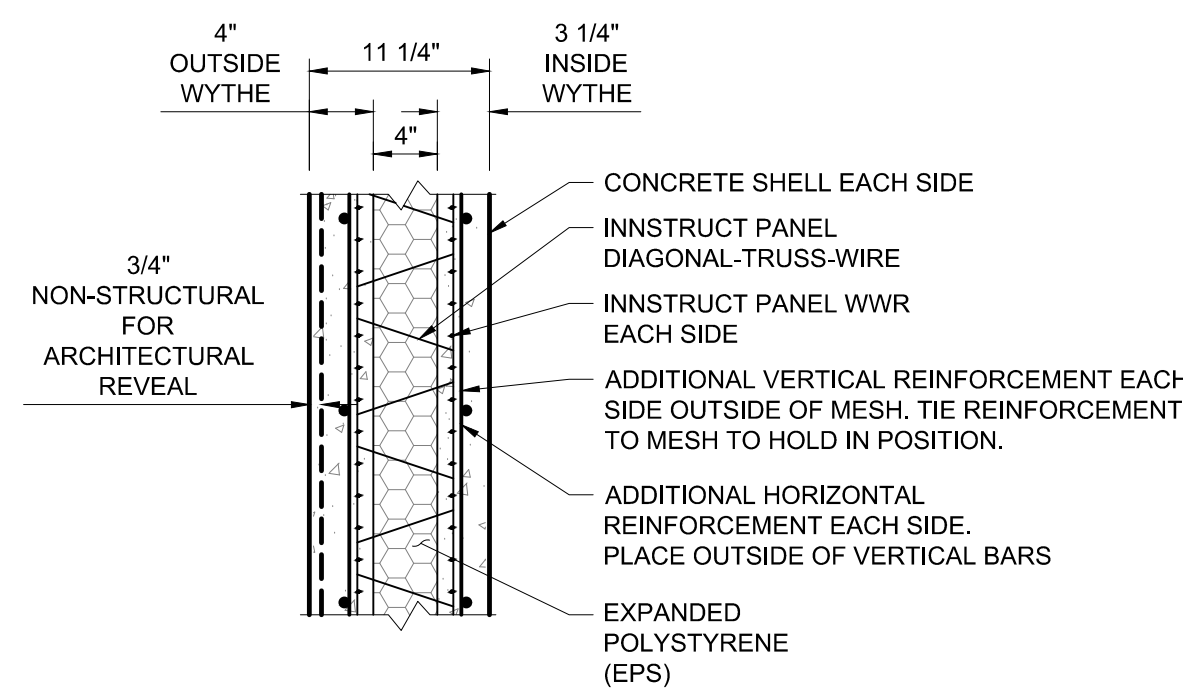
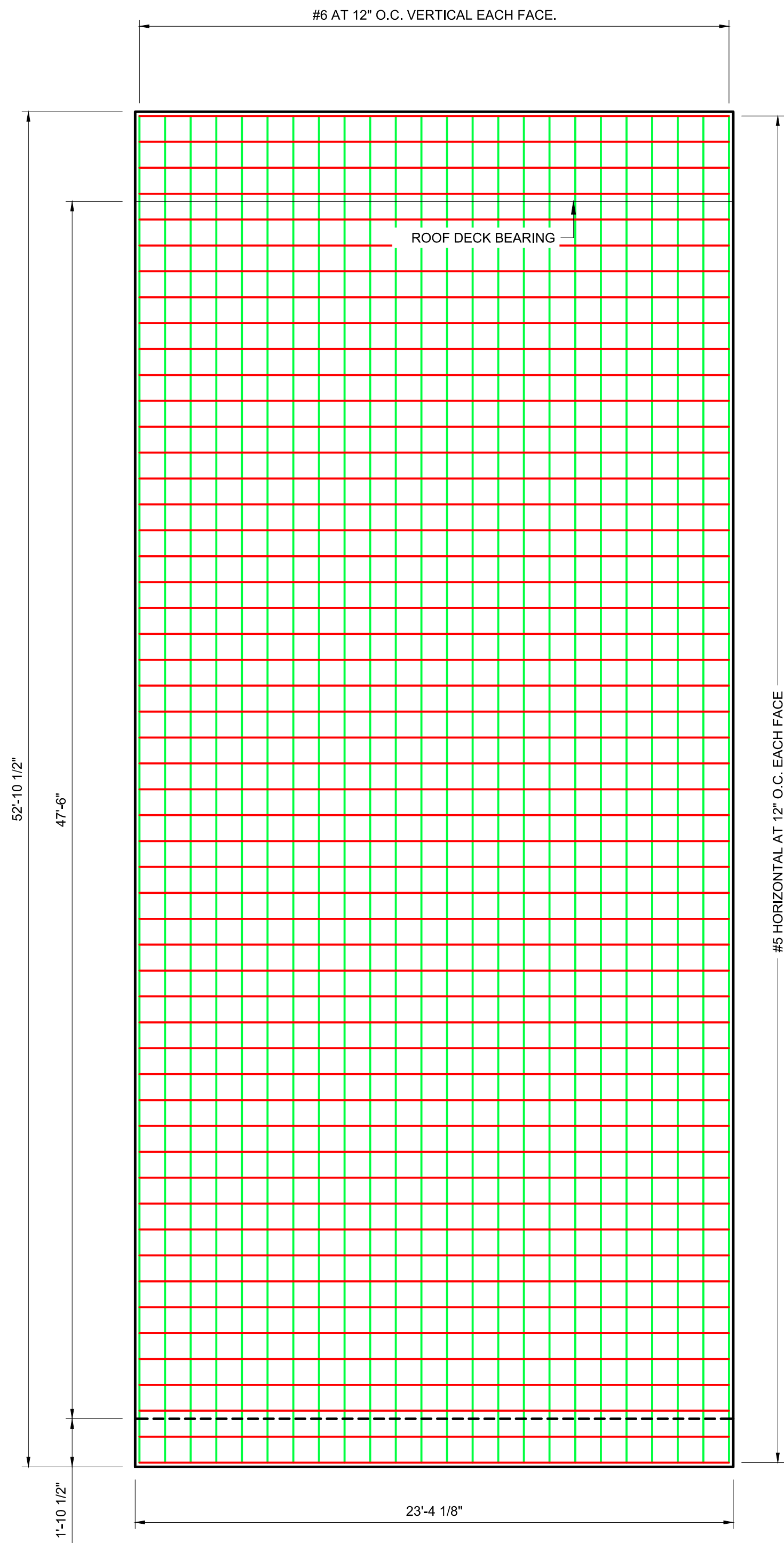


**TIPS REINFORCING**  
3/8" = 1'-0"

- TIPS  
 4" EXTERIOR CONCRETE WYTHE (COMPOSITE)  
 4" EPS INSULATION  
 3-1/4" INTERIOR CONCRETE WYTHE (COMPOSITE)  
 11-1/4" TOTAL THICKNESS

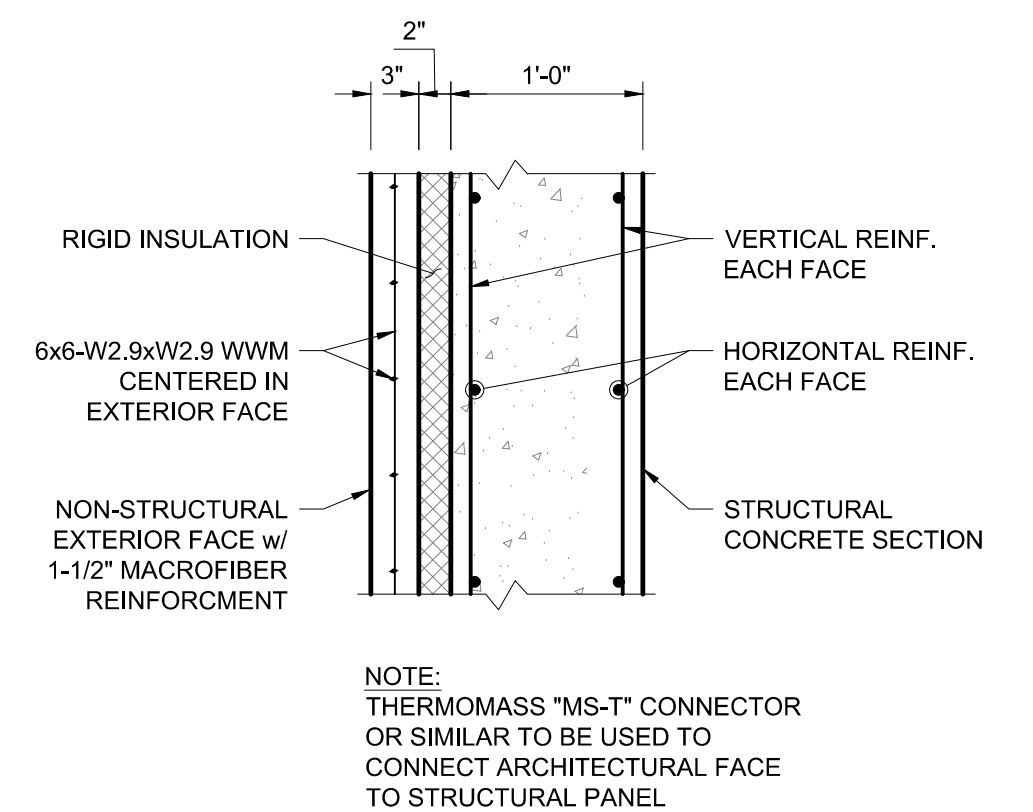


**TYPICAL INNSTRUCT PANEL**  
SCALE: NTS



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

- SOLID CONCRETE SECTION  
 12" STRUCTURAL INTERIOR CONCRETE  
 2" RIGID INSULATION INSULATION  
 3" NON-STRUCTURAL EXTERIOR CONCRETE FACE  
 17" TOTAL PANEL THICKNESS



**SOLID CONCRETE PANEL SECTION**  
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)

PROJECT NO. 10		NO.		REVISIONS		BY DATE	
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<b>PROJECT 10B</b>		<b>TIPS COMPARISON</b>					
SHEET NO:							
DATE: NOVEMBER 2020							
PAGE NO:							

# INNSTRUCT | Total Integrated Panel System (TIPS)

## Basic Design Comparison and Material Displacement Estimate

Project: **10B**

Prepared by:

Kim D. Blackburn

Panel Description: S101 no openings

Date:

1/1/2021

Total Wall Square Feet: 264,920

Total Panels in Project: 171

### Panel Configuration:

- 29 Number of Similar Panels in Project
- 52.83 Height (ft)
- 23.33 Width (ft)
- Area of Openings (ft<sup>2</sup>)
- 1,233 Panel Area (ft<sup>2</sup>)
- 150 Concrete Weight (lbs./ft<sup>3</sup>)



### Original Design Configuration:

3	Architectural Wythe (in)
2	Insulation (in)
12	Structural Wythe (in)
15	Concrete Thickness (in)
17	Total Thickness (in)
17.5	R-value Materials Only

### Innstruct | TIPS Design Configuration:

4	Outside Wythe (in)
4	Insulation (in)
3.25	Inside Wythe (in)
7.25	Concrete Thickness (in)
11.25	Total Thickness (in)
23.6	R-value Materials Only

### Design Comparison | Material Displacement:

#### Original Design

Material	Amount	Units
Concrete	57	cubic yds
Reinforcement	6,376	lbs.
Panel Weight	237,474	lbs.

#### TIPS Design

Amount	Units	% Reduced
28	cubic yds	<b>52%</b>
2,193	lbs.	<b>66%</b>
113,890	lbs.	<b>52%</b>

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BETTER PANEL | LESS EFFORT | MORE PROFIT