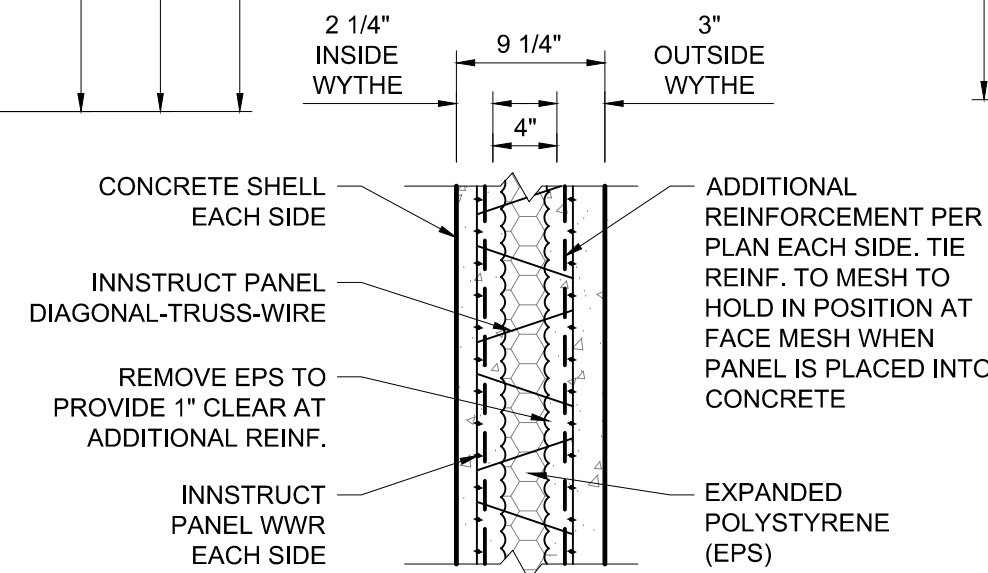


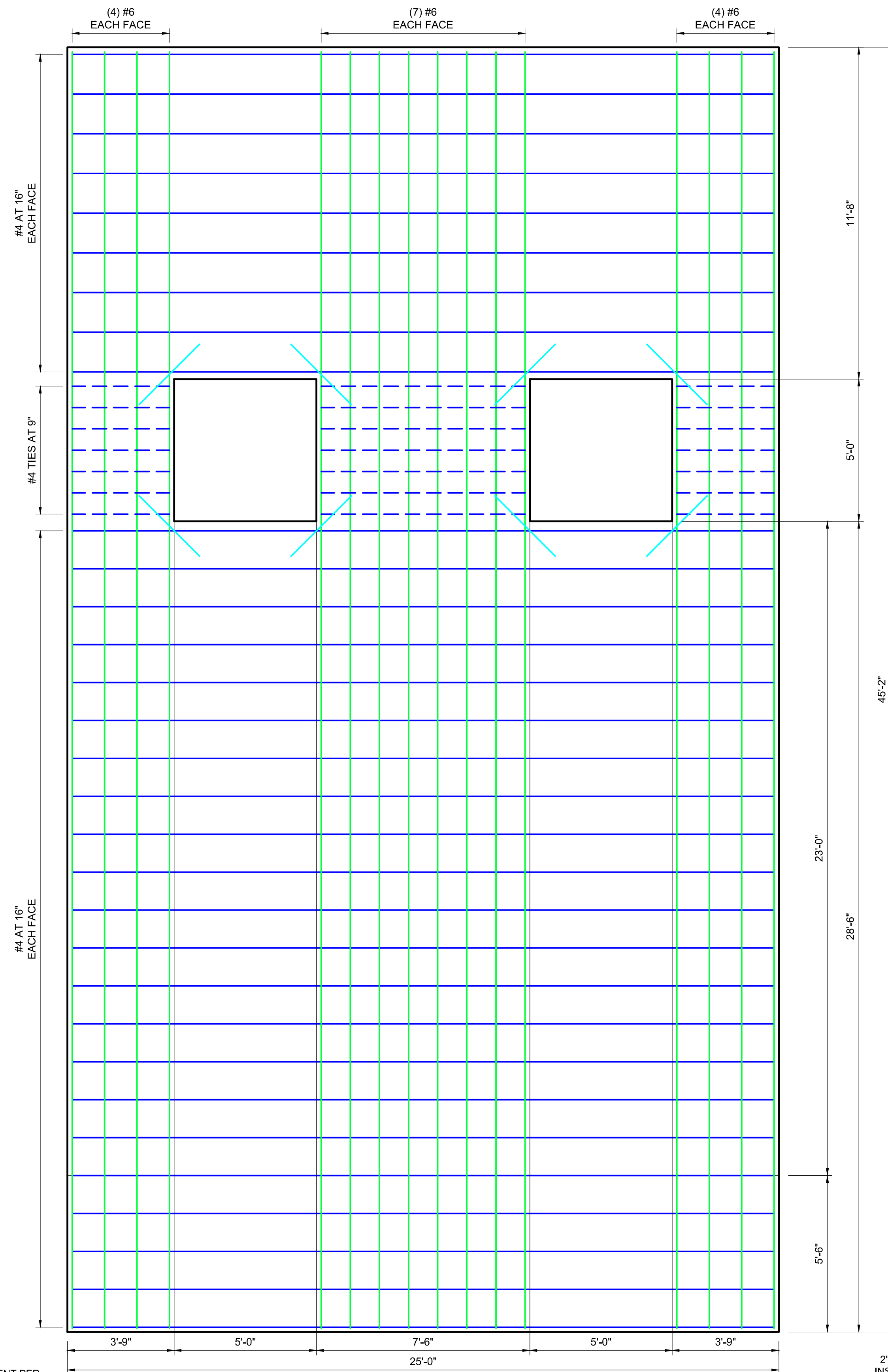
TIPS REINFORCING
3/8" = 1'-0"

- TIPS**
 3" EXTERIOR CONCRETE WYTHE (COMPOSITE)
 4" EPS INSULATION
 2-1/4" INTERIOR CONCRETE WYTHE (COMPOSITE)
 9-1/4" TOTAL THICKNESS



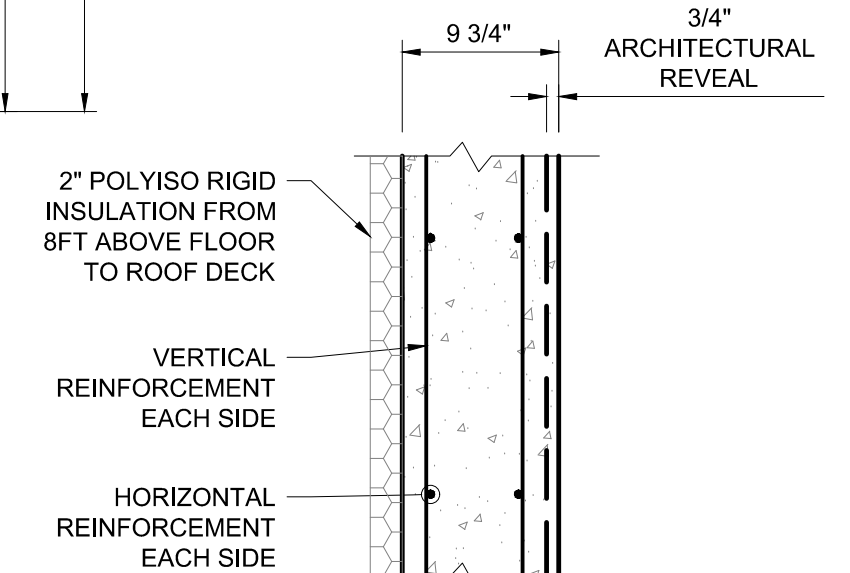
TYPICAL TIPS SECTION

SCALE: NTS



SOLID CONCRETE PANEL REINFORCING
3/8" = 1'-0"

- SOLID CONCRETE SECTION**
 9" STRUCTURAL CONCRETE
 3/4" NON-STRUCTURAL CONCRETE FOR ARCHITECTURAL REVEAL
 9-3/4" TOTAL THICKNESS
 2" POLYISO RIGID INSULATION FROM 8FT ABOVE FLOOR TO ROOF DECK



TYPICAL SOLID CONCRETE PANEL

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. 6
DRAWN
DESIGNED
APPROVED
DATE

INNOVATIVE STRUCTURAL SOLUTIONS

PROJECT 6A

TIPS COMPARISON

SHEET NO:

DATE: NOVEMBER 2020

PAGE NO:

INNSTRUCT | Total Integrated Panel System (TIPS)

Basic Design Comparison and Material Displacement Estimate

Project: **6A**
 Panel Description: S100 windows
 Total Wall Square Feet: 48,400
 Total Panels in Project: 45

Prepared by: Kim D. Blackburn
 Date: 1/1/2021

Panel Configuration:

- 26 Number of Similar Panels in Project
- 45.17 Height (ft)
- 25.00 Width (ft)
- 50 Area of Openings (ft²) 2 windows 5 x 5
- 1,079 Panel Area (ft²)
- 150 Concrete Weight (lbs./ft³)



Original Design Configuration:

0.75	Architectural Wythe (in)
0	Insulation (in)
9	Structural Wythe (in)
9.75	Concrete Thickness (in)
9.75	Total Thickness (in)
4.9	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	32	cubic yds
Reinforcement	3,655	lbs.
Panel Weight	135,189	lbs.

TIPS Design

Amount	Units	% Reduced
17	cubic yds	46%
1,020	lbs.	72%
71,846	lbs.	47%

INNOVATIVE STRUCTURAL SOLUTIONS

375 East 400 North - Morgan, Utah 84050 | www.innstruct.com

BETTER PANEL | LESS EFFORT | MORE PROFIT