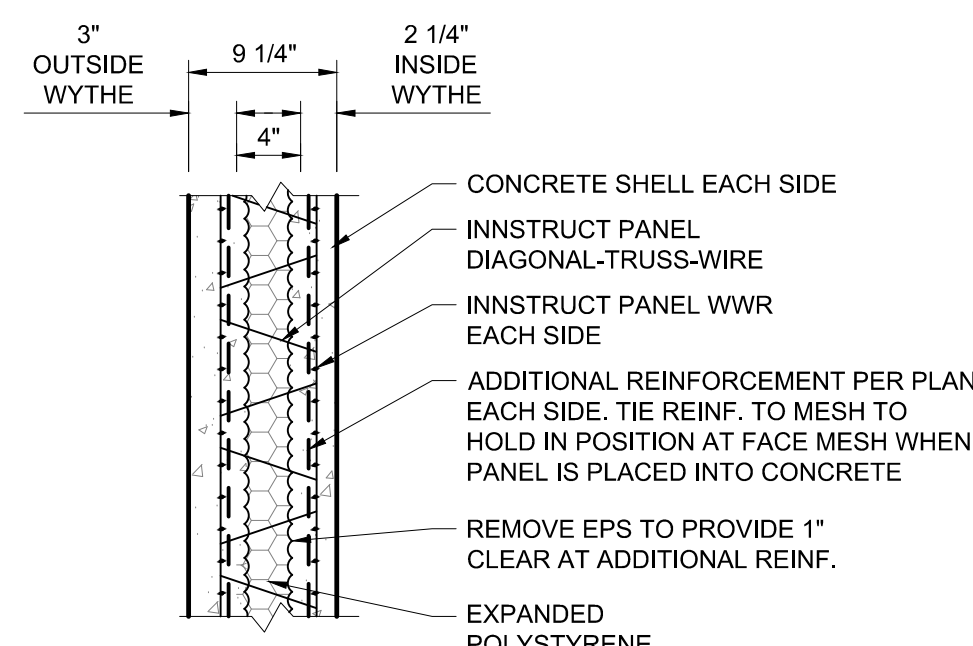
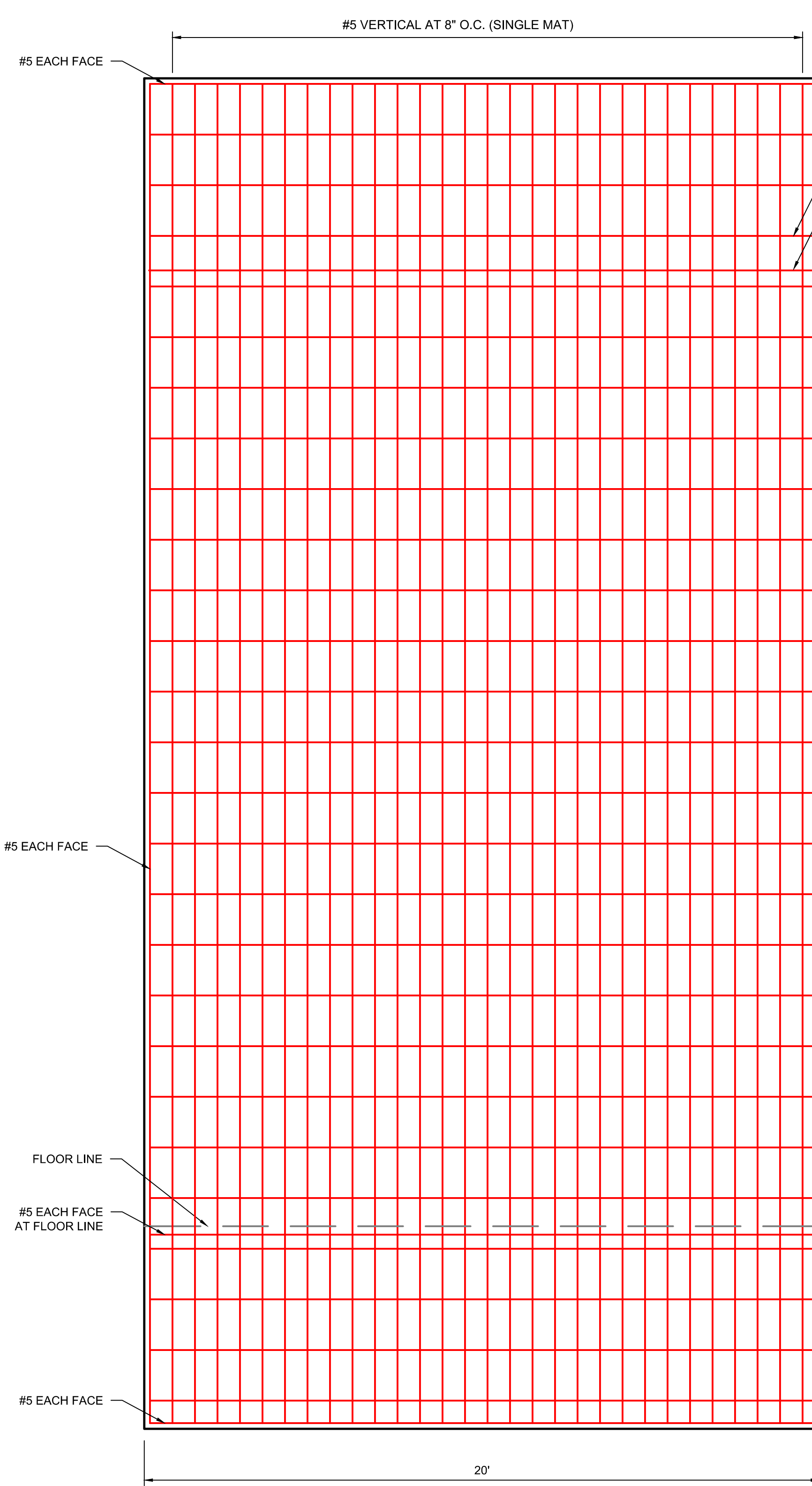


TIPS REINFORCING
3/8" = 1'-0"

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

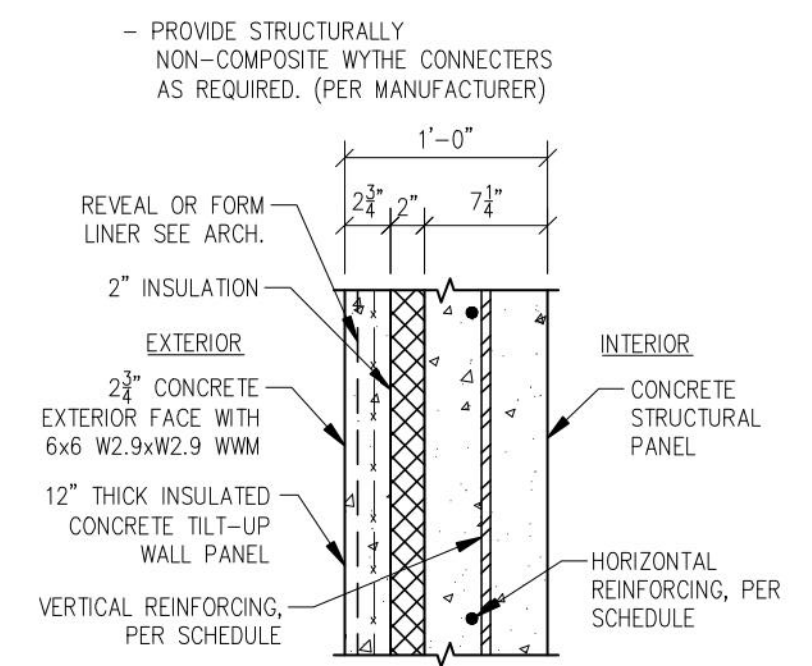


TYPICAL TIPS SECTION
SCALE: NTS



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

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



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

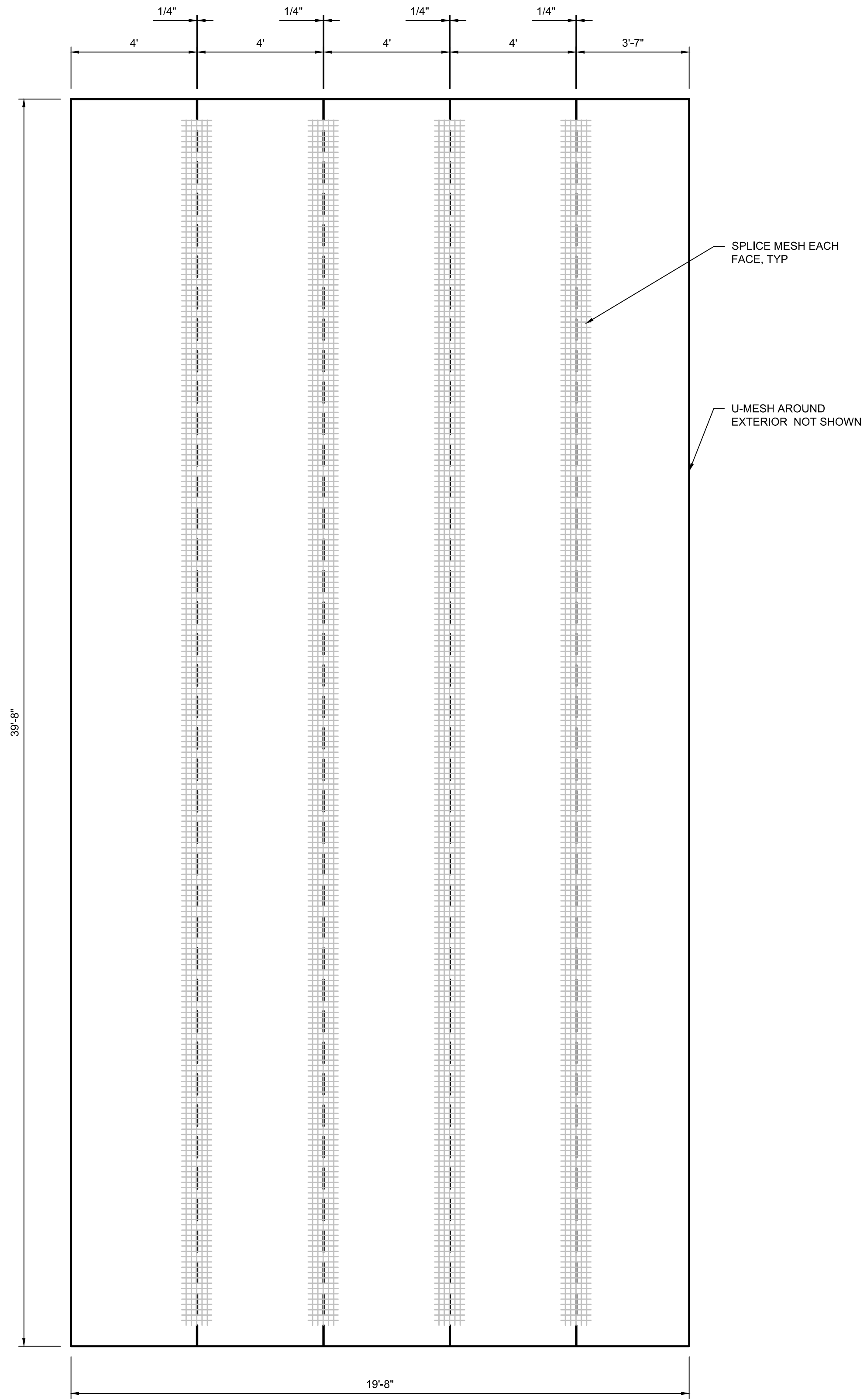
PROJECT 1A

TIPS COMPARISON

SHEET NO:

DATE: NOVEMBER 2020

PAGE NO:



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

SHEET NO:
DATE: **NOVEMBER 2020**
PAGE NO:

PROJECT 1A
TIPS COMPARISON

INNOVATIVE
STRUCTURAL
SOLUTIONS

PROJECT NO: 1
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**PRELIMINARY
DRAWING
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NO.	REVISIONS	BY	DATE

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INNSTRUCT | Total Integrated Panel System (TIPS)

Basic Design Comparison and Material Displacement Estimate

Project: **1A**
 Panel Description: S101 no openings
 Total Wall Square Feet: 23,688
 Total Panels in Project: 35

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

Panel Configuration: 19 Number of Similar Panels in Project
 40.00 Height (ft)
 20.00 Width (ft)
 - Area of Openings (ft²)
 800 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	25	cubic yds
Reinforcement	3,785	lbs.
Panel Weight	106,285	lbs.

TIPS Design

Amount	Units	% Reduced
13	cubic yds	49%
589	lbs.	84%
53,089	lbs.	50%

INNOVATIVE STRUCTURAL SOLUTIONS

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

BETTER PANEL | LESS EFFORT | MORE PROFIT