

PROJECT TITLE

SUBMITTAL - INNSTRUCT TOTAL INTEGRATED PANEL SYSTEM (TIPS)

LOCATION

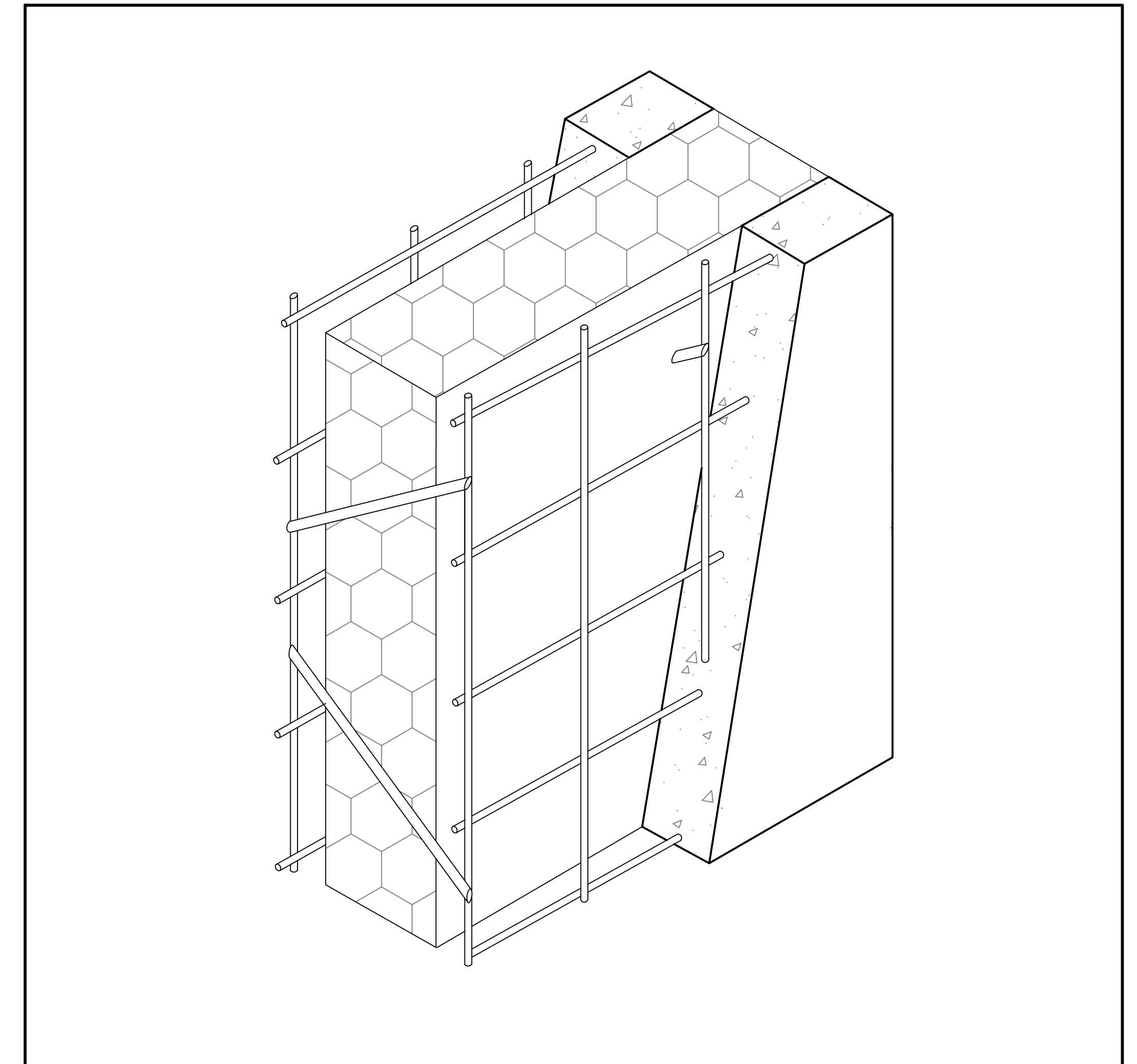


PROJECT LOCATION MAP

N.T.S.

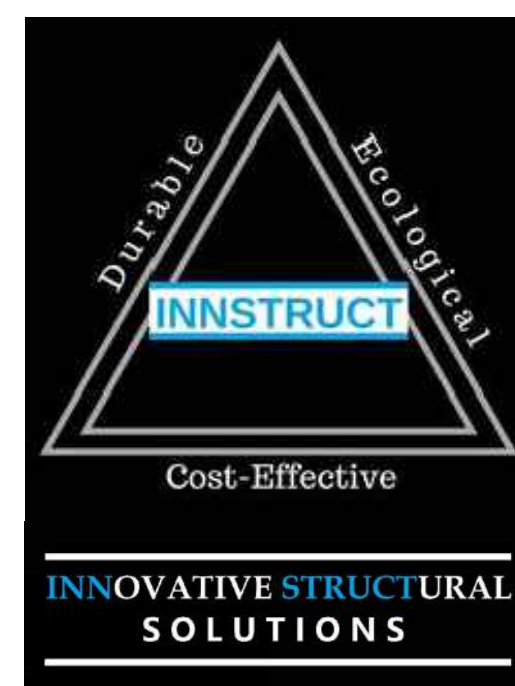
SHEET INDEX	
NO.	TITLE

PROJECT SITE



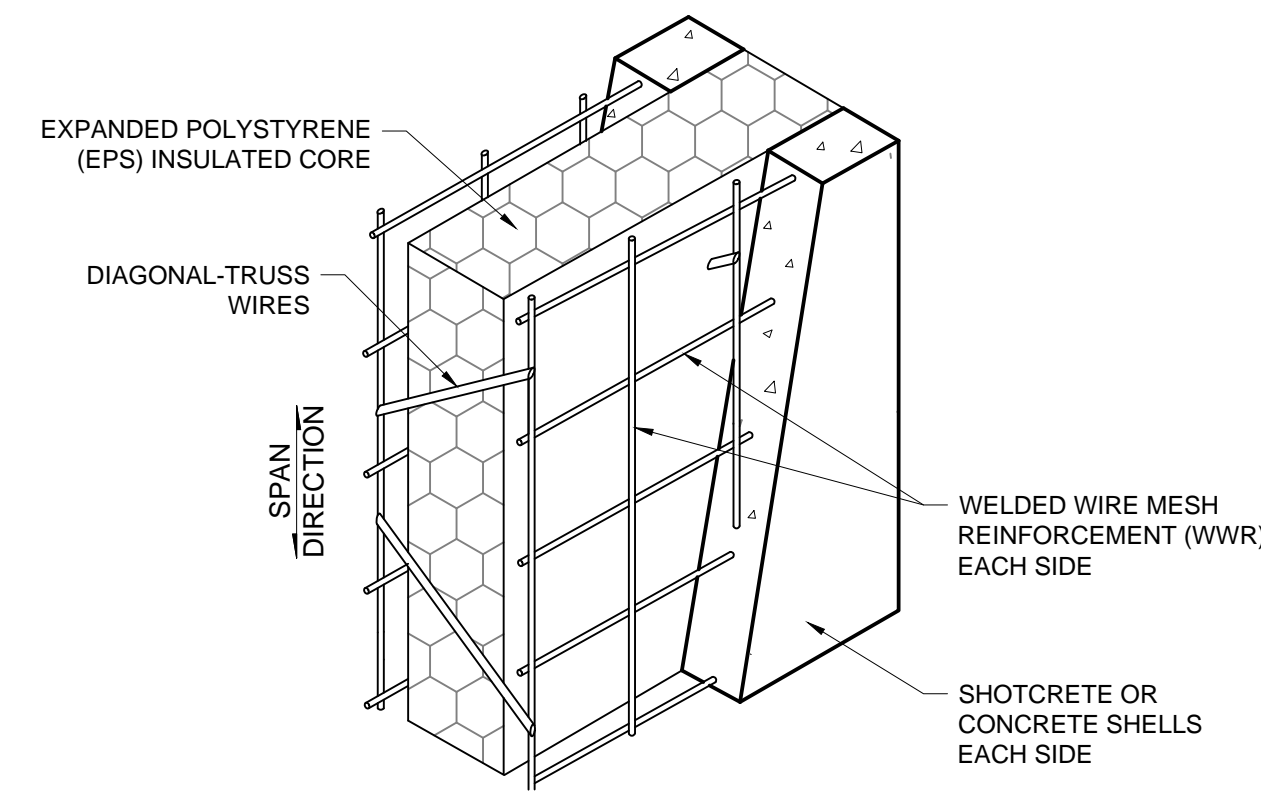
DATE
FA PROJECT NO.

SCOPE

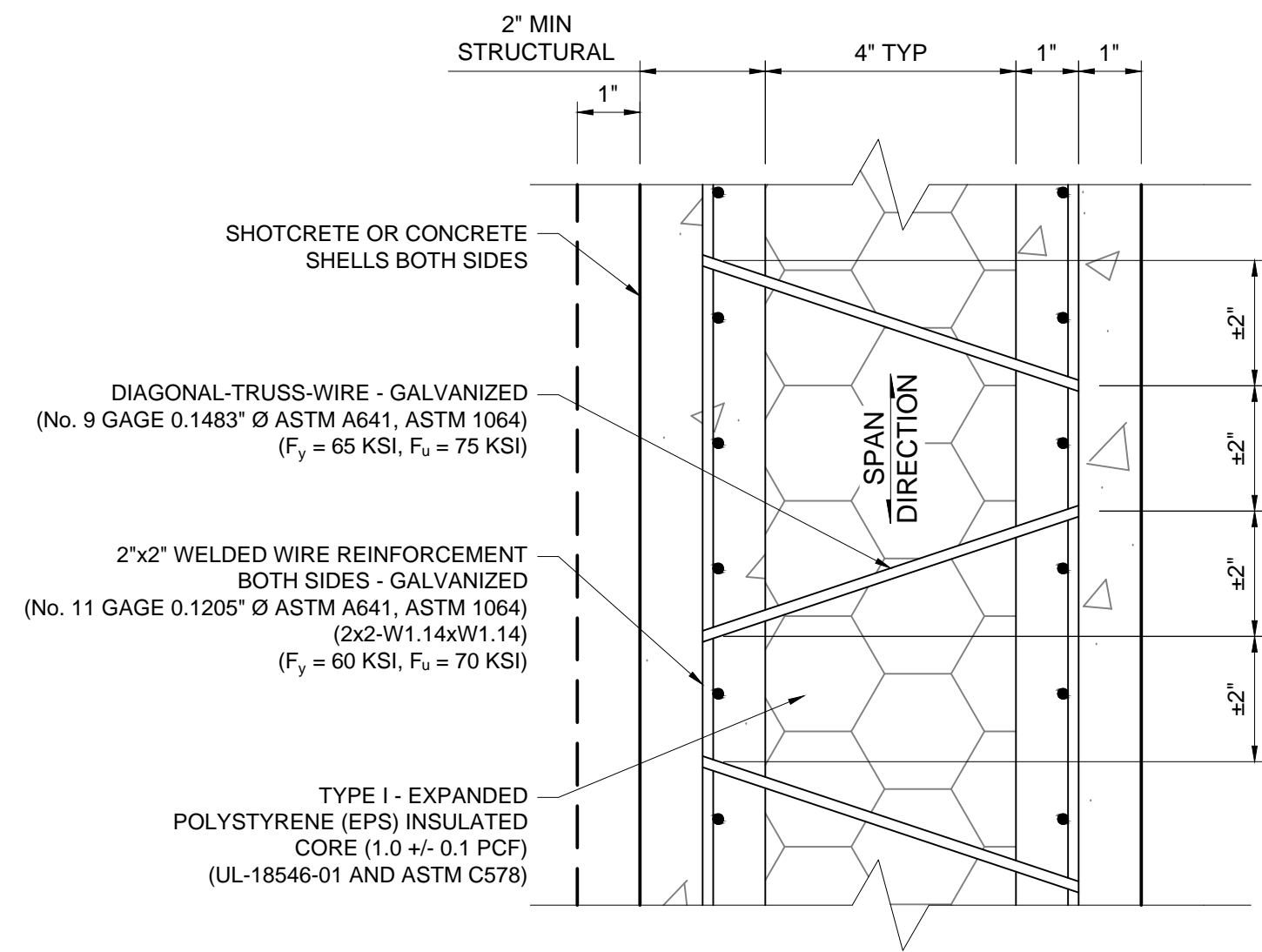


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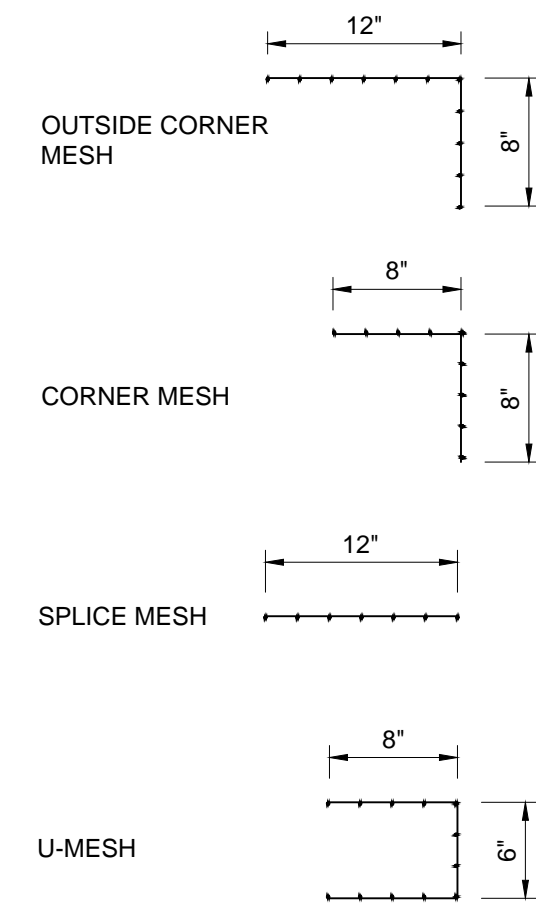
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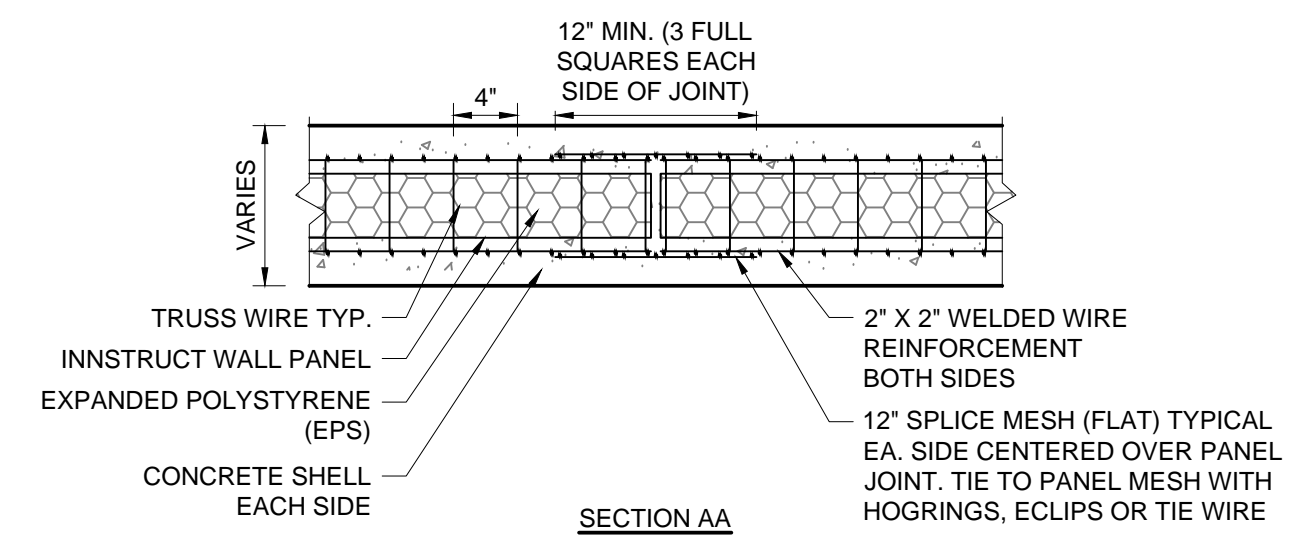
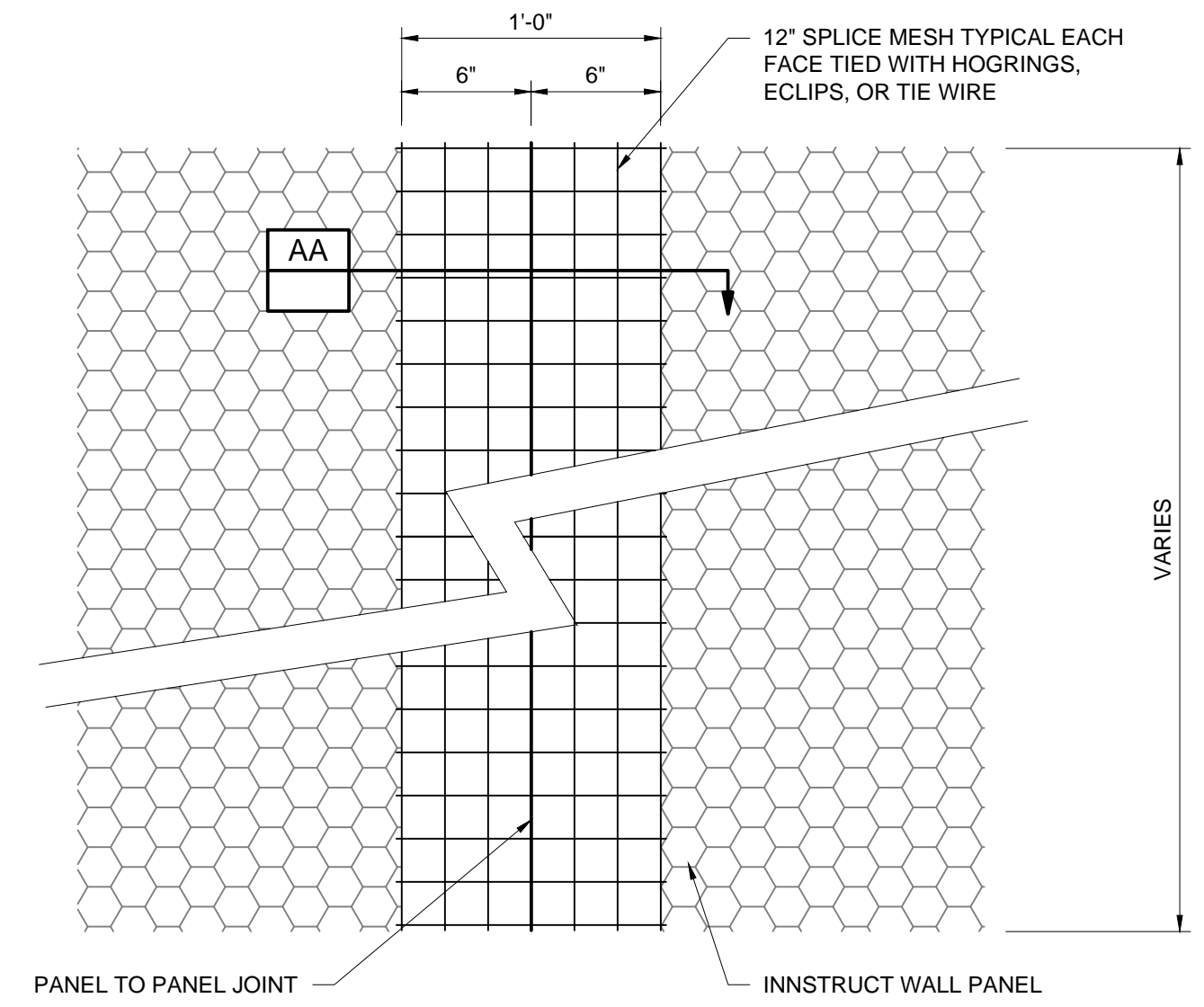
INNSTRUCT PANEL ISOMETRIC
SCALE: N.T.S. 1



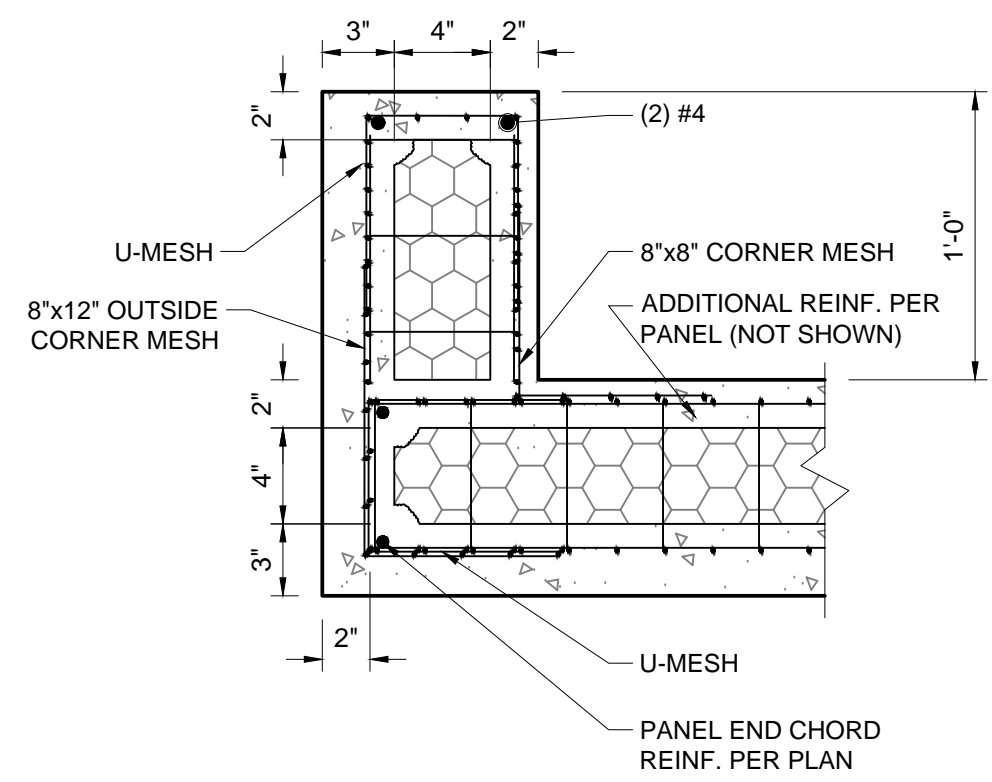
TYPICAL INNSTRUCT PANEL
SCALE: N.T.S. 2



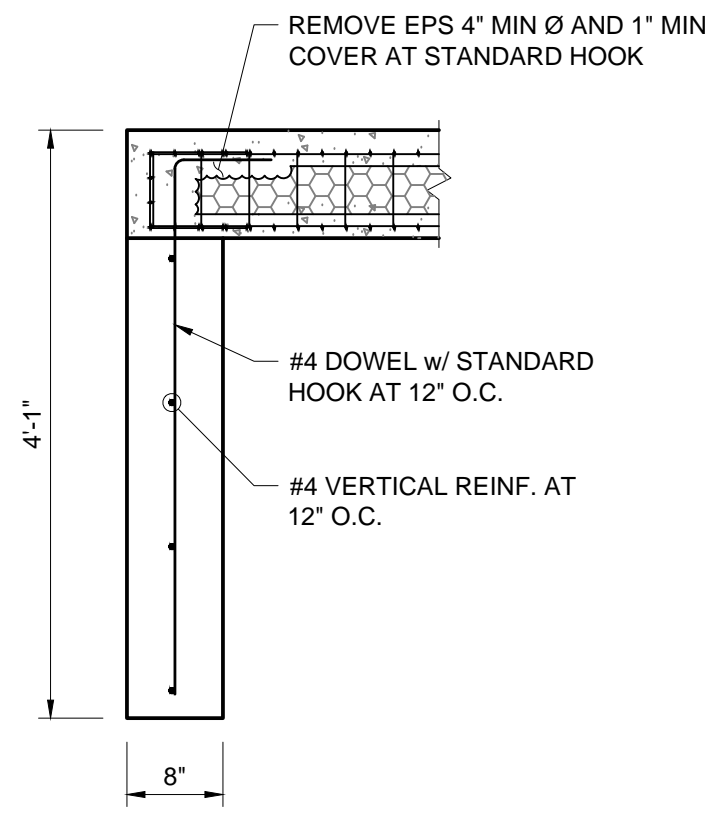
TYPICAL CONNECTION MESH AND REINFORCEMENT
SCALE: 1" = 1'-0" 3



INNSTRUCT PANEL SPLICE
SCALE: N.T.S. 4



PANEL RETURN LEG
SCALE: 1 1/2" = 1'-0" 5



PANEL RETURN AT STOREFRONT
SCALE: 3/4" = 1'-0" 6

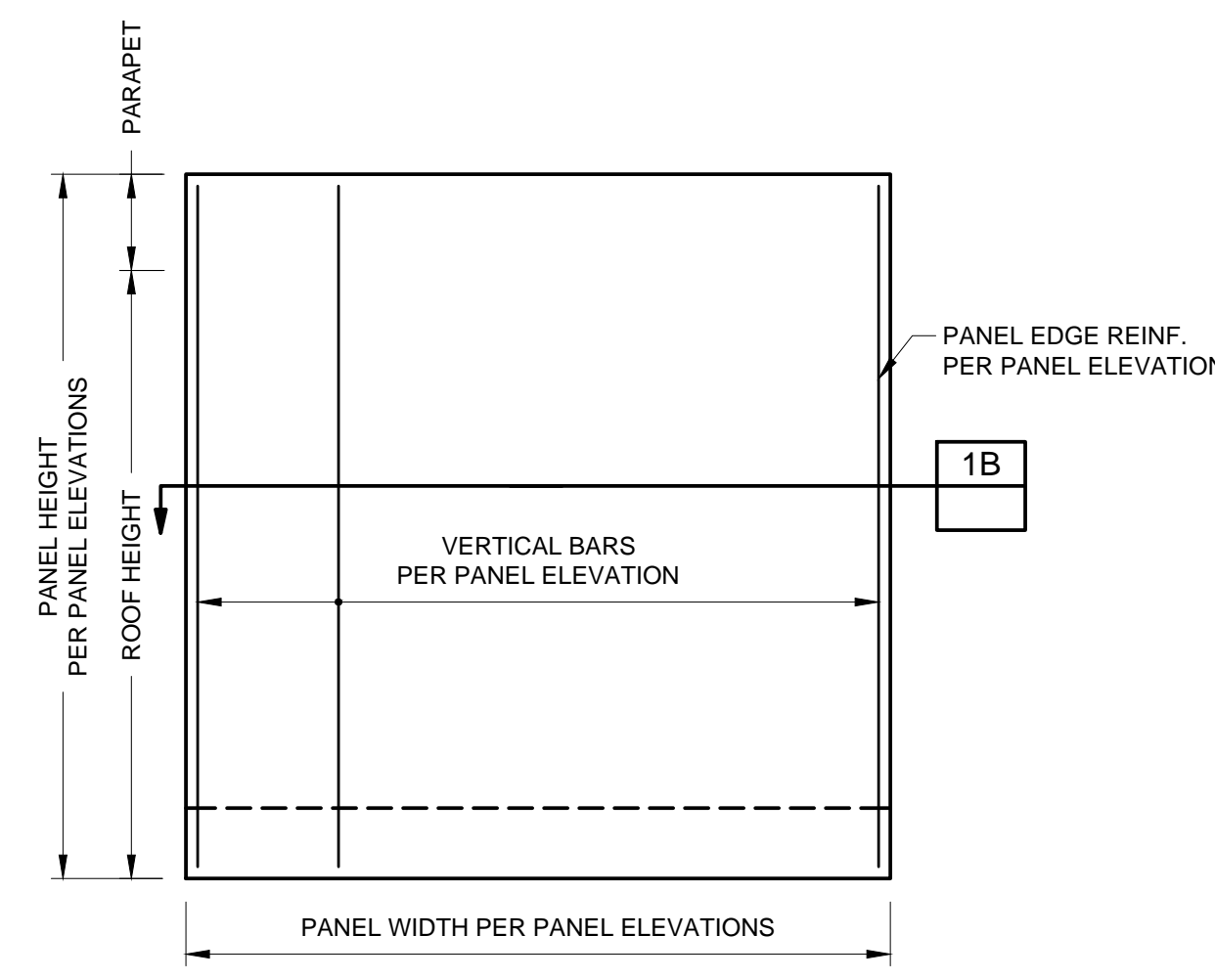
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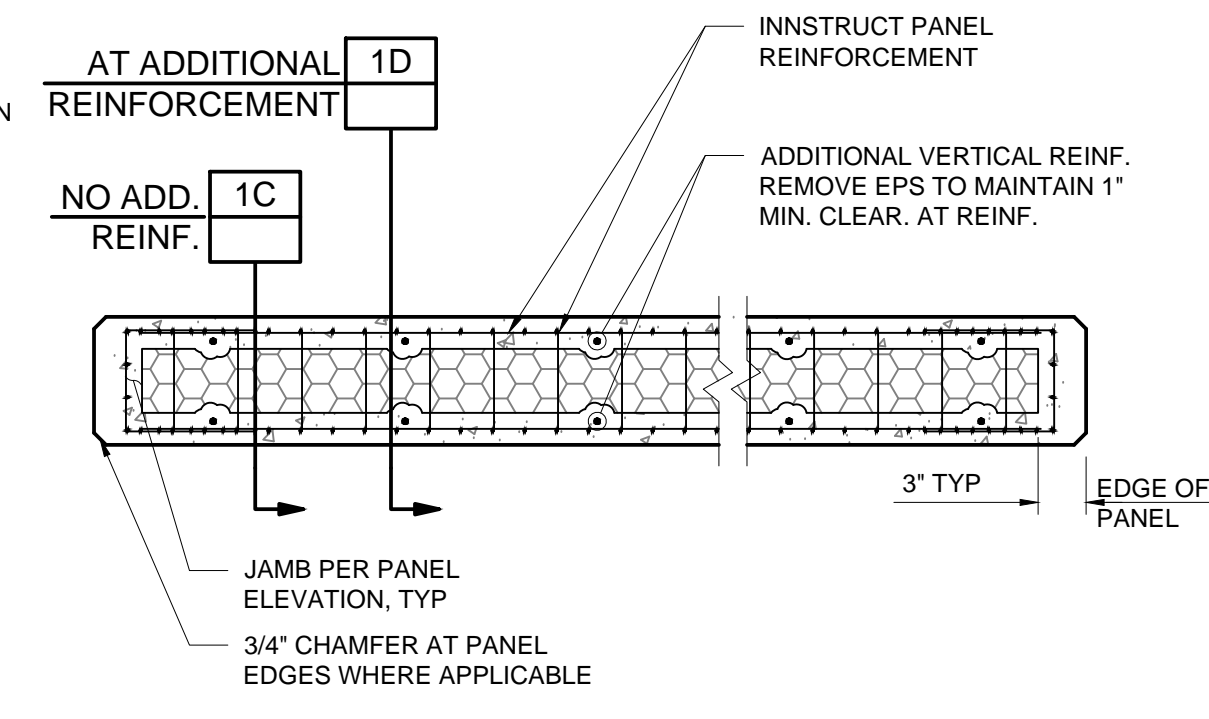
PROJECT NAME
TYPICAL PANEL DETAILS

SHEET NO: S3	DATE: _____
PAGE NO: OF _____	

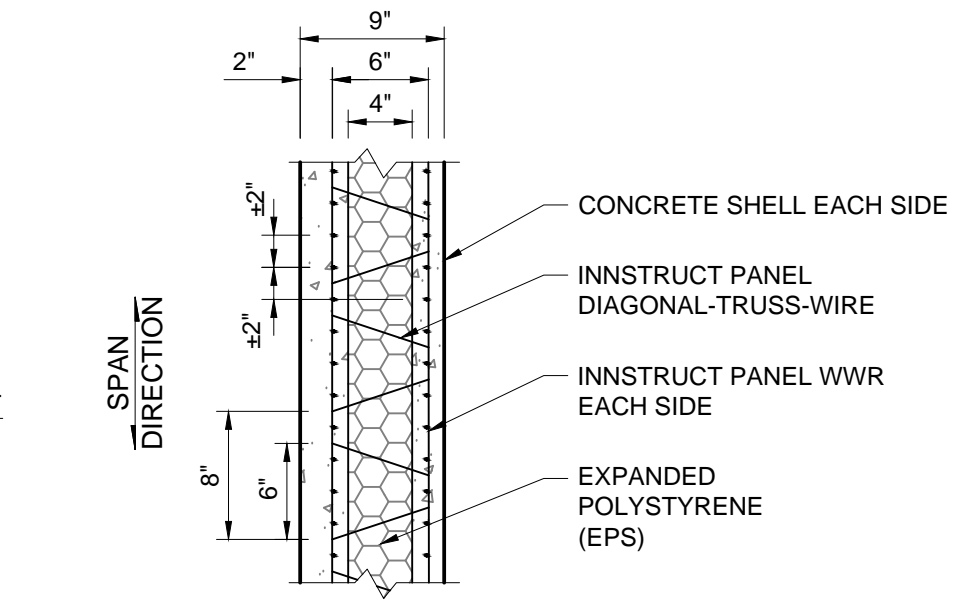
ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)



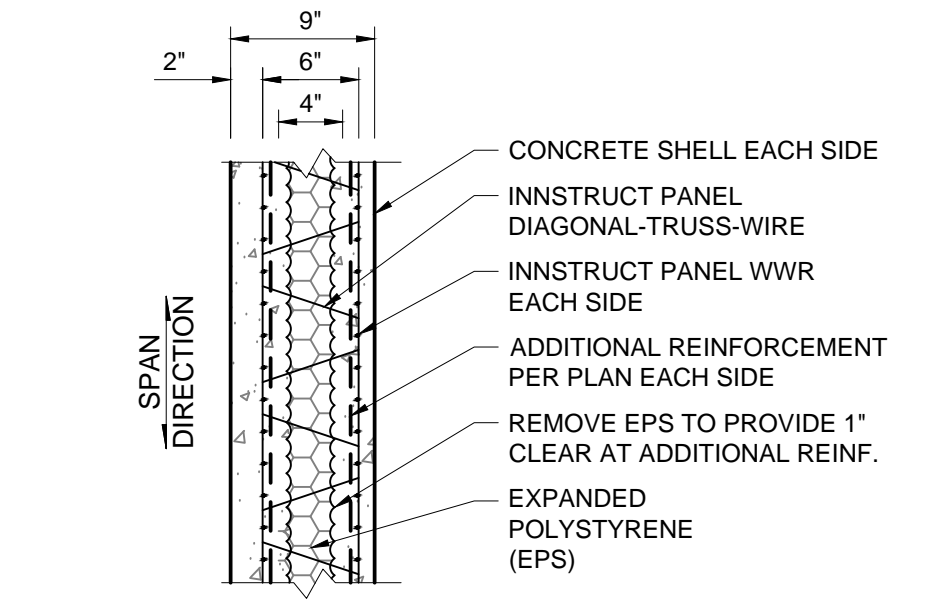
PANEL ELEVATION **1A**



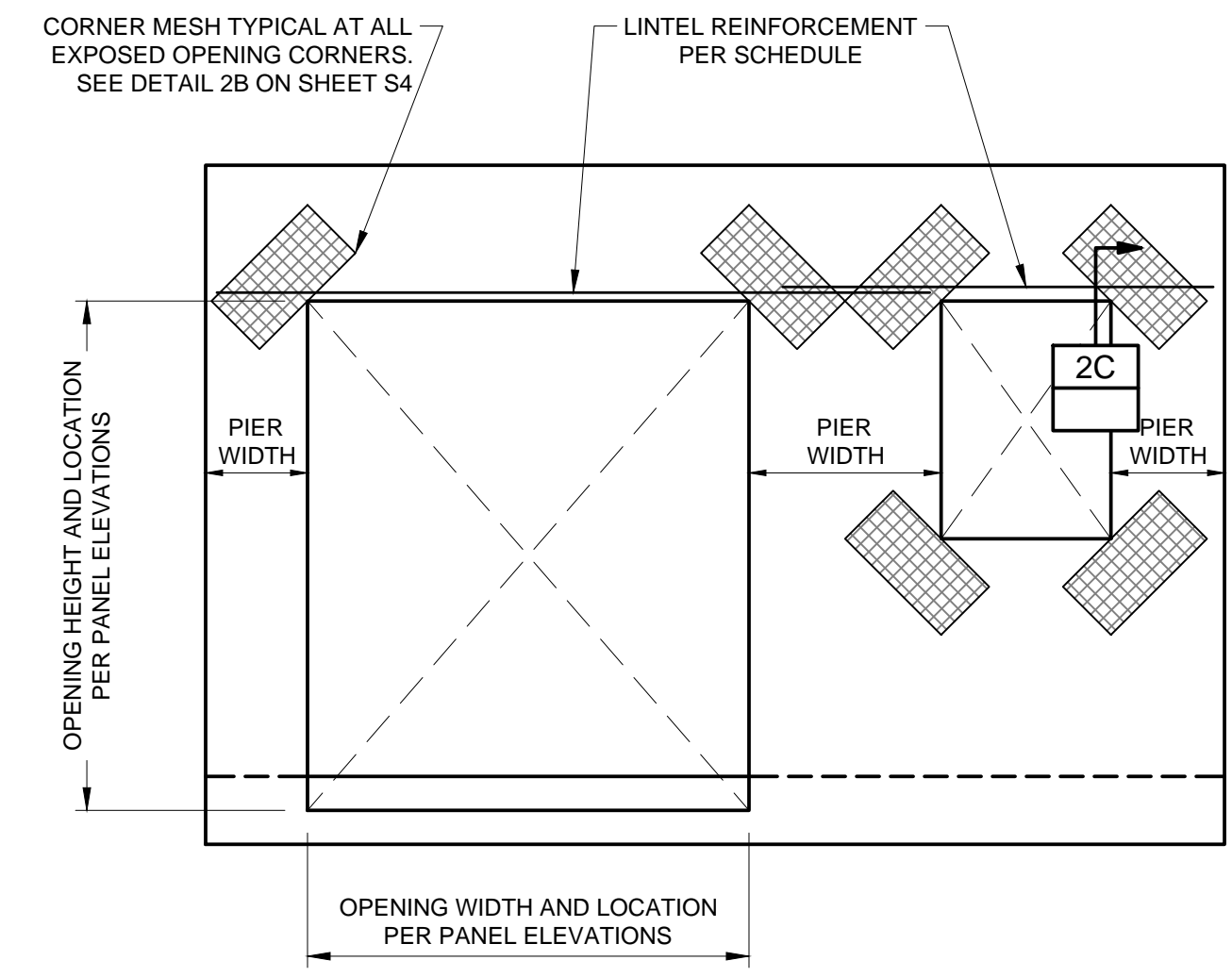
TYPICAL PANEL SECTION - PLAN VIEW **1B**
SCALE: N.T.S.



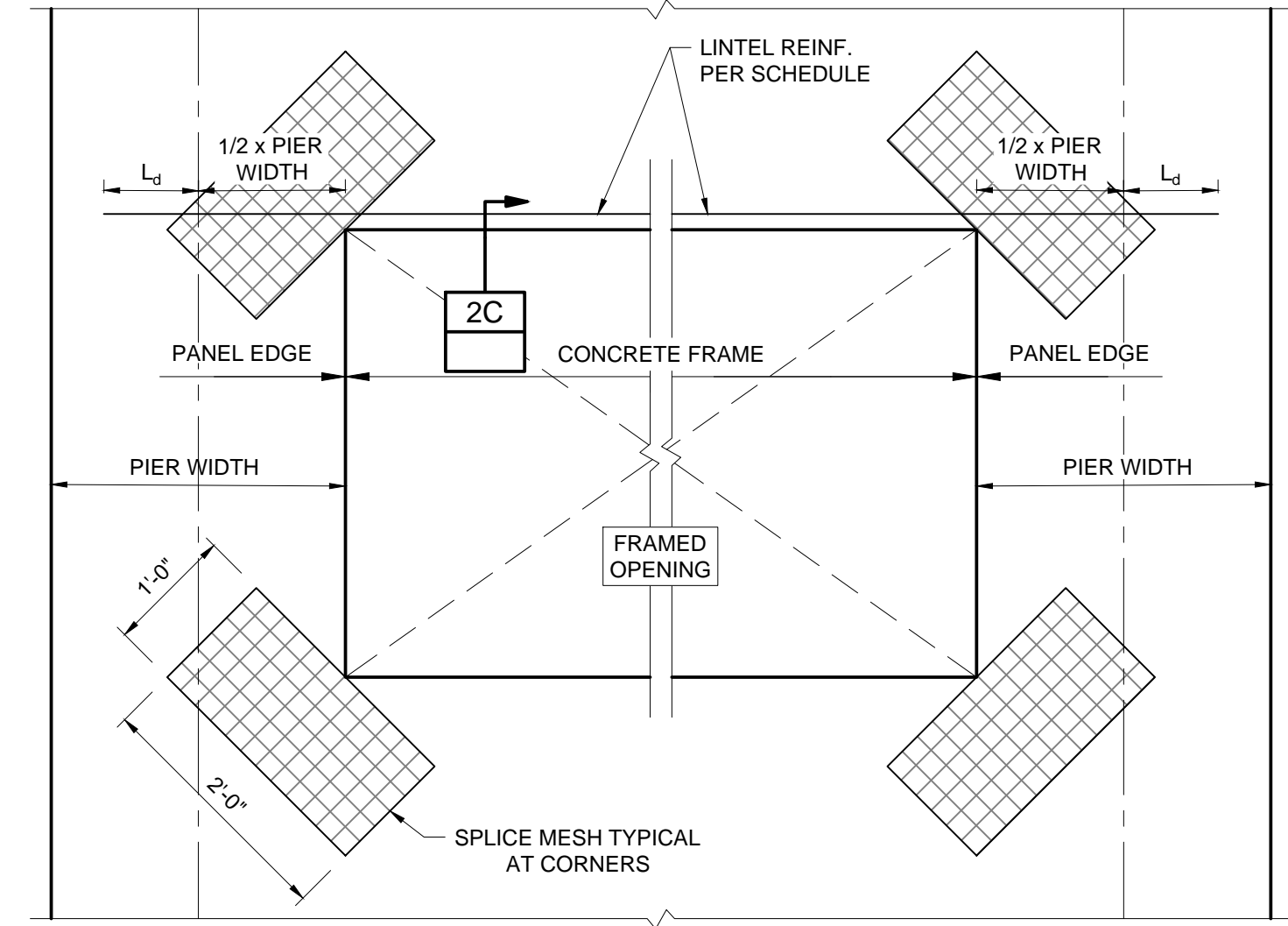
NO ADDITIONAL REINFORCEMENT **1C**
SCALE: N.T.S.



ADDITIONAL REINFORCEMENT **1D**
SCALE: N.T.S.

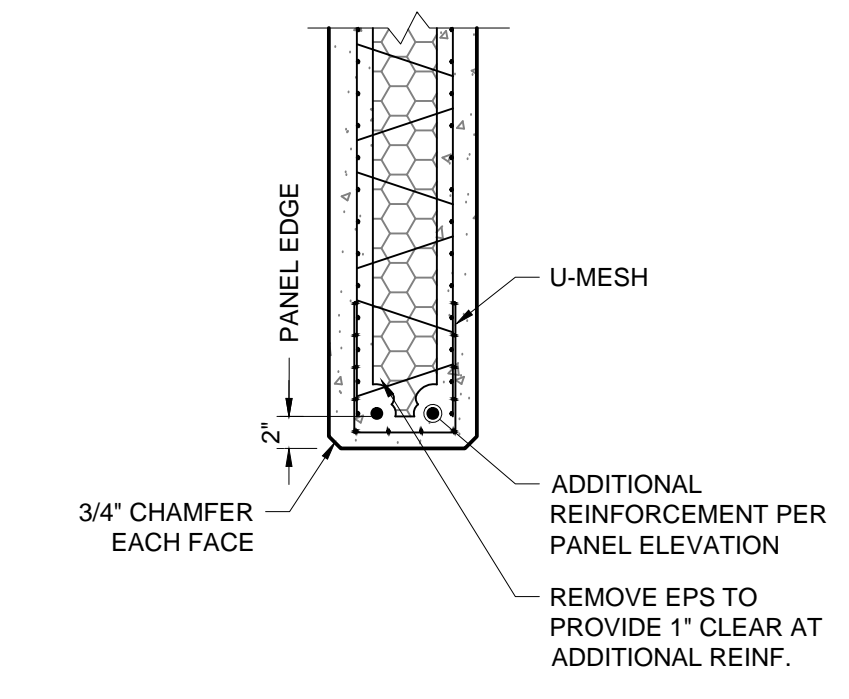


PANEL WITH OPENING ELEVATION **2A**



L_d IS THE DEVELOPMENT LENGTH. SEE STRUCTURAL NOTES FOR THE DEVELOPMENT LENGTH.
*PROVIDE STANDARD HOOK WHERE PIER WIDTH DOES NOT ALLOW L_d BEYOND MID-POINT OF PIER

FRAMED OPENING CORNER MESH AND
LINTEL REINFORCEMENT LENGTH **2B**



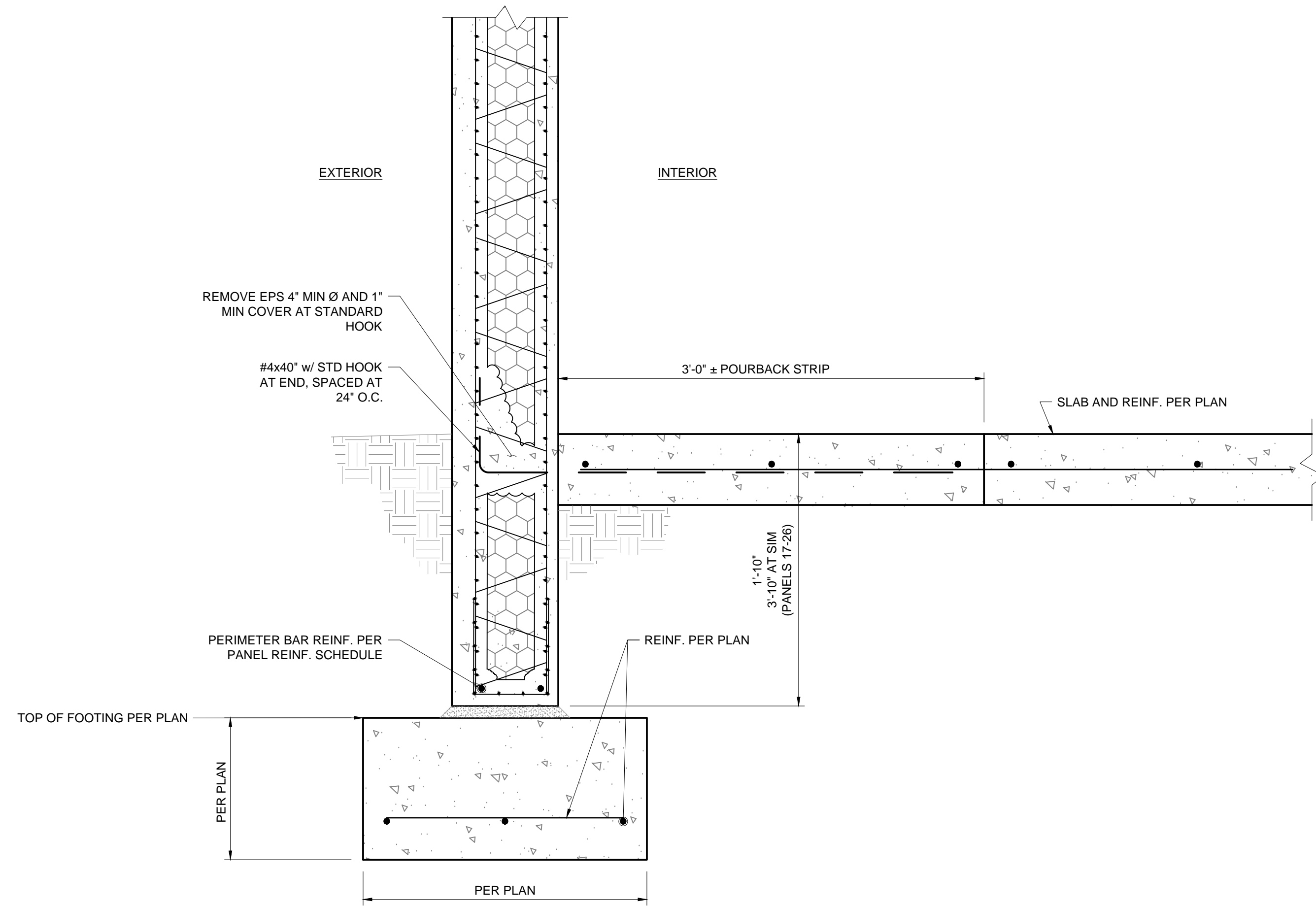
LINTEL SECTION **2C**

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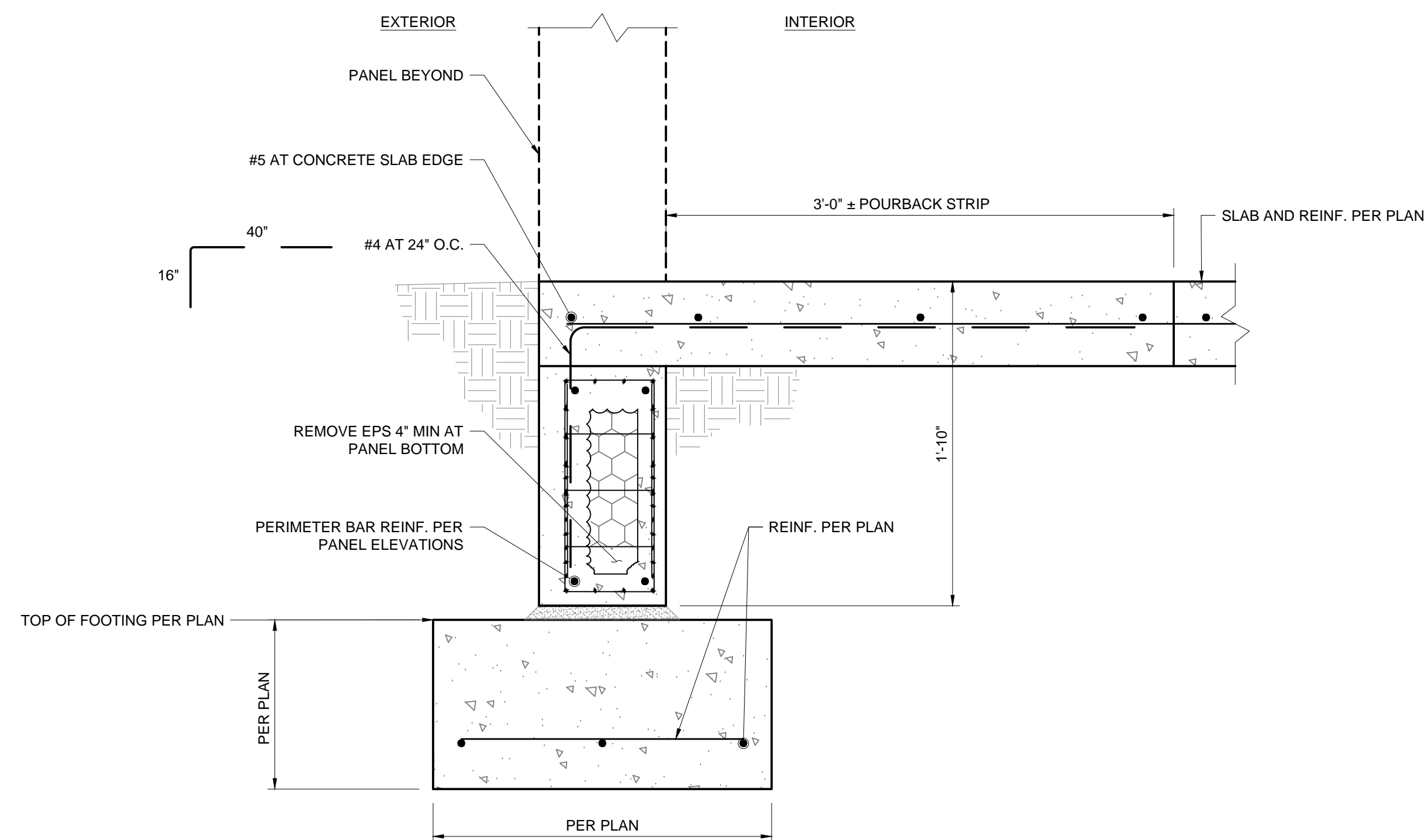
<p>PROJECT NAME</p> <p>TILT-UP PANEL DETAILS</p>		<p>SHEET NO:</p> <p>S4</p>	<p>DATE:</p>	<p>PAGE NO:</p> <p>OF</p>
<p>PROJECT NO. _____</p> <p>DRAWN _____</p> <p>DESIGNED _____</p> <p>APPROVED _____</p> <p>DATE _____</p>	<p>NO. _____</p> <p>REVISIONS</p>	<p>BY _____</p> <p>DATE _____</p>	<p style="text-align: center;">FORSGREN <i>Associates, Inc.</i></p> <p style="text-align: center; font-size: small;">This document or any part thereof in detail or design shall be the property of Forsgren Associates, Inc. and shall not be reproduced or transmitted in any form or by any means without the written authorization of Forsgren Associates, Inc.</p> <p style="text-align: center; font-size: x-small;">95 WEST 100 SOUTH, STE. 115, LOGAN, UT 84321 PH: 435.227.0333 FAX: 435.227.0334</p>	

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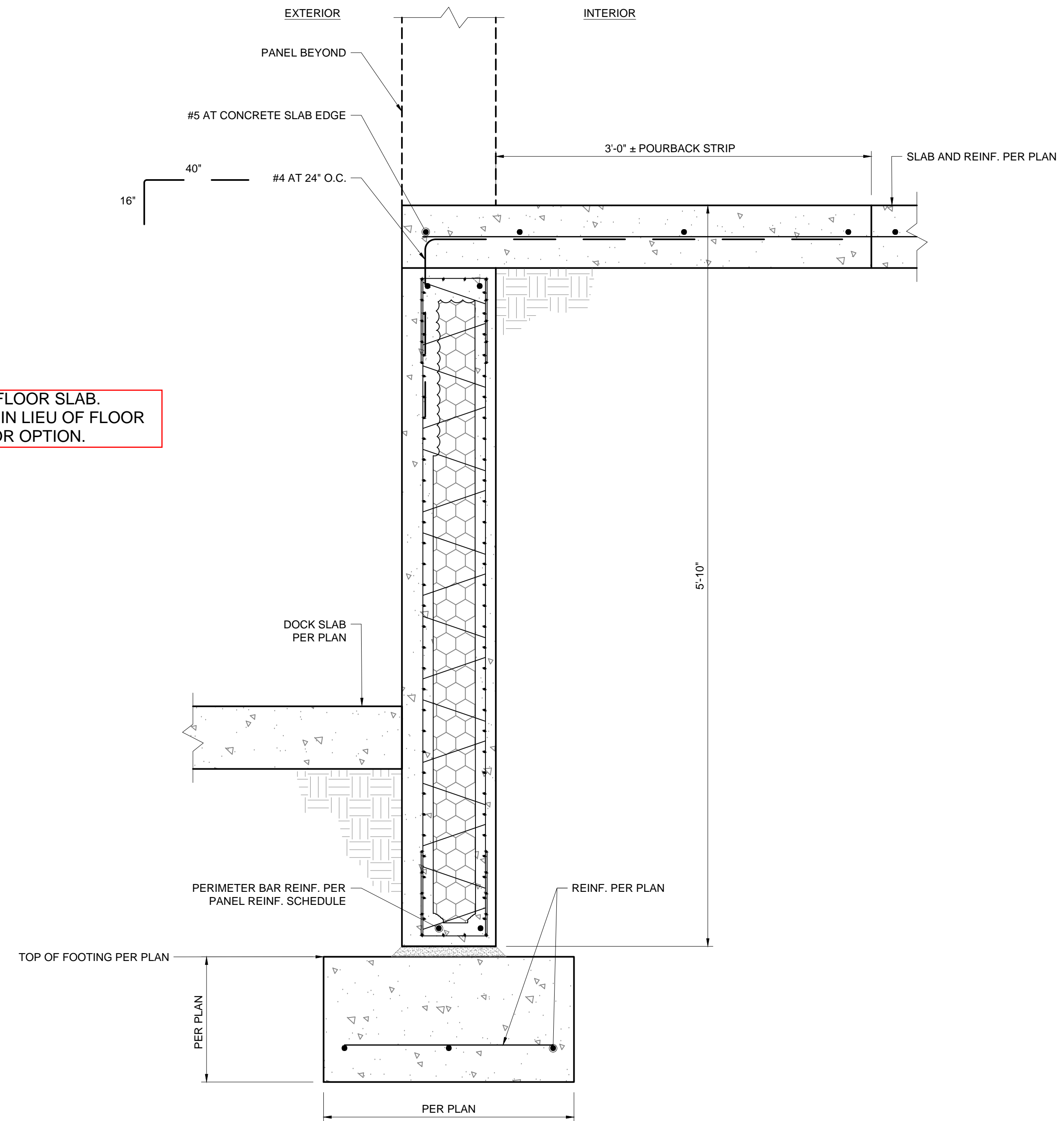


TYP TILT-UP PANEL FOUNDATION 1
SCALE: 1 1/2"=1'-0"

DETAILS SHOW PANEL ANCHORAGE AT FLOOR SLAB. ANCHORAGE TO FOOTING MAY BE PROVIDED IN LIEU OF FLOOR ANCHOR SYSTEM AS PER CONTRACTOR OPTION.



TYP TILT-UP PANEL FOUNDATION AT DOOR 2
SCALE: 1 1/2"=1'-0"



FOUNDATION TILT-UP PANEL DOCK HIGH 3
SCALE: 1 1/2"=1'-0"

ATTENTION
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AT FULL SIZE
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PROJECT NAME

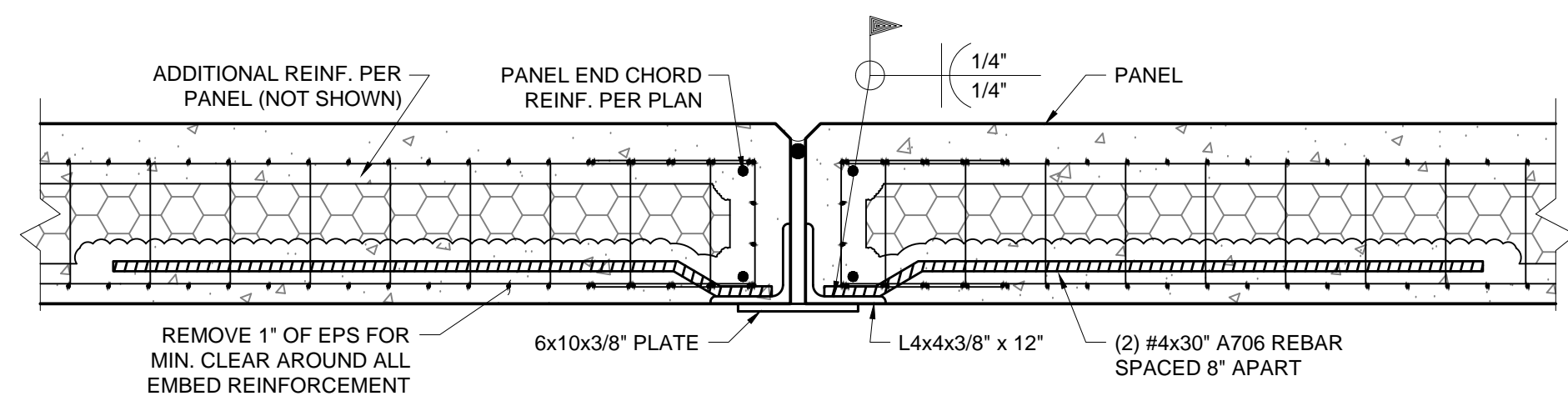
FOUNDATION DETAILS

SHEET NO:
S5

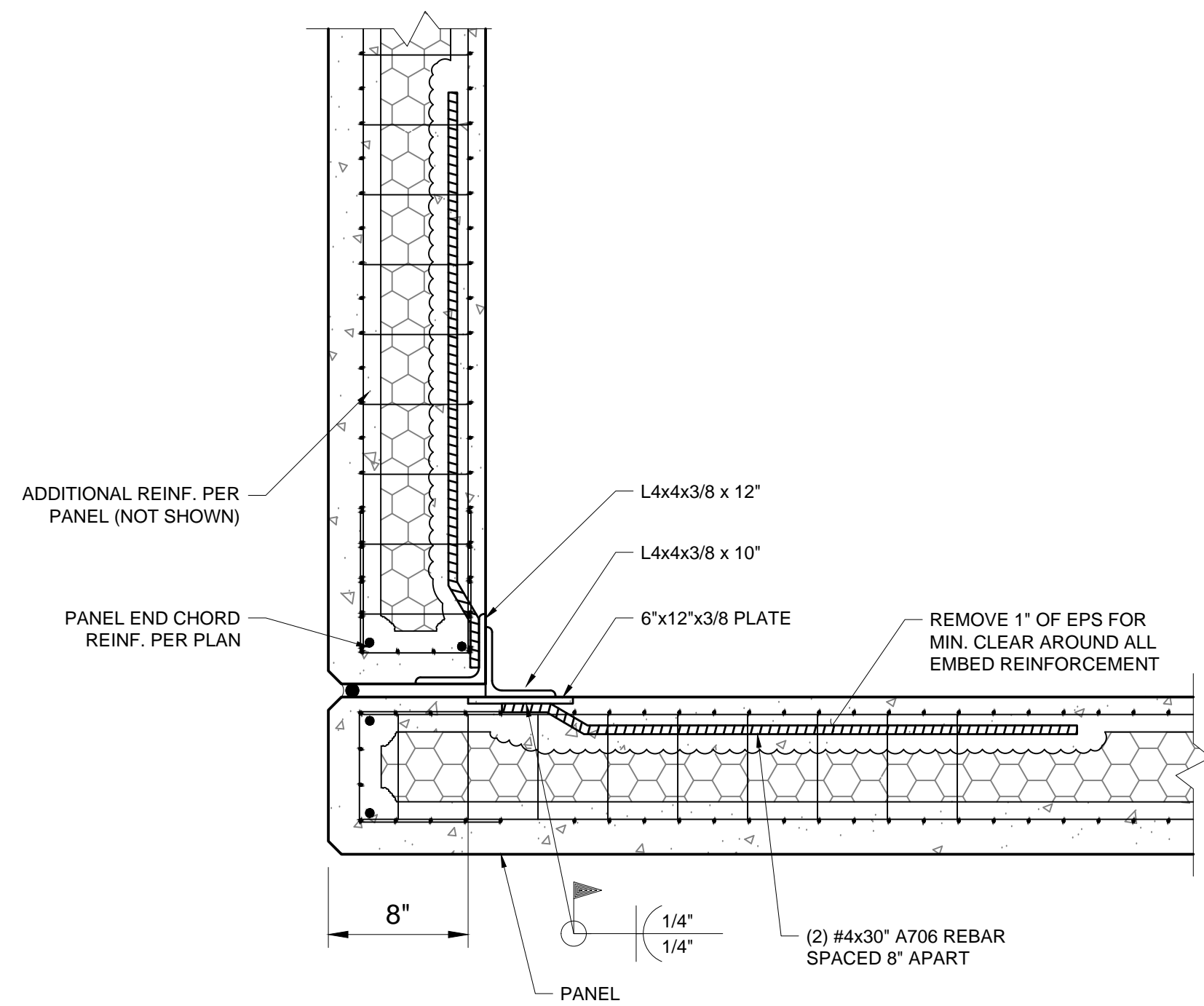
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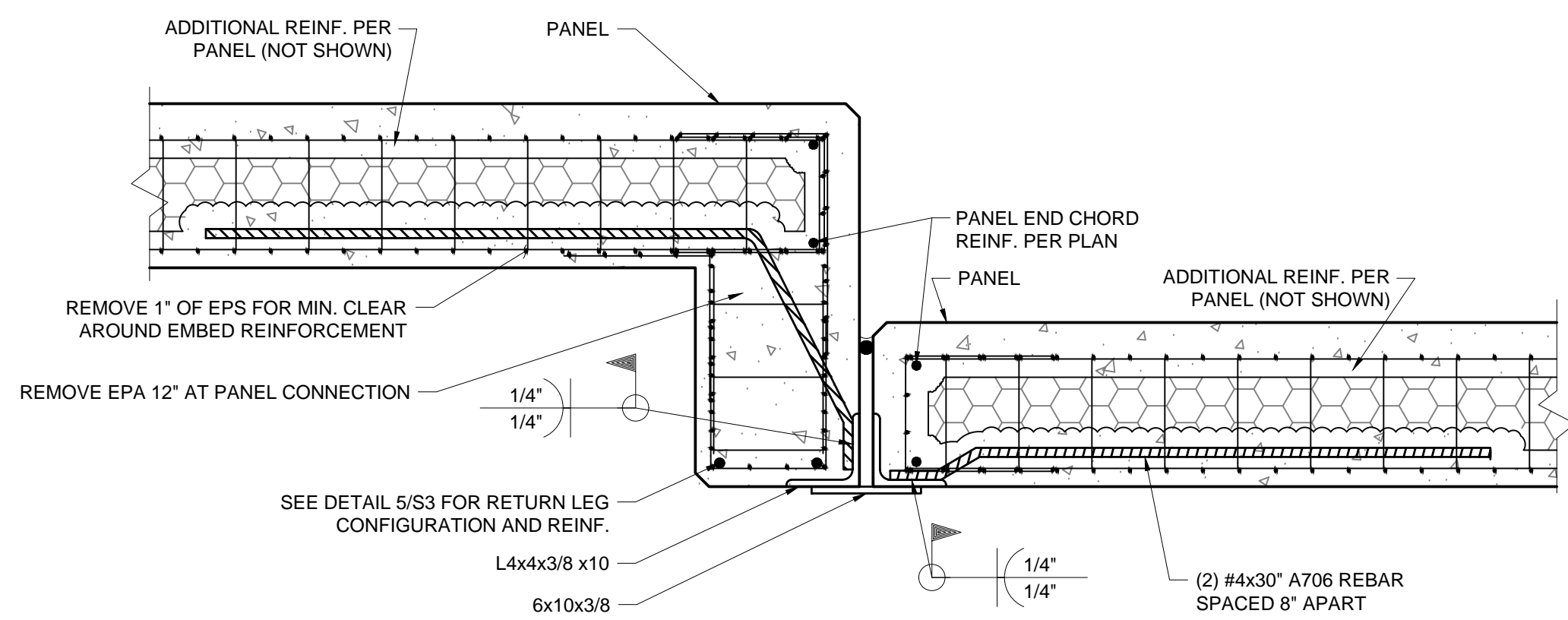
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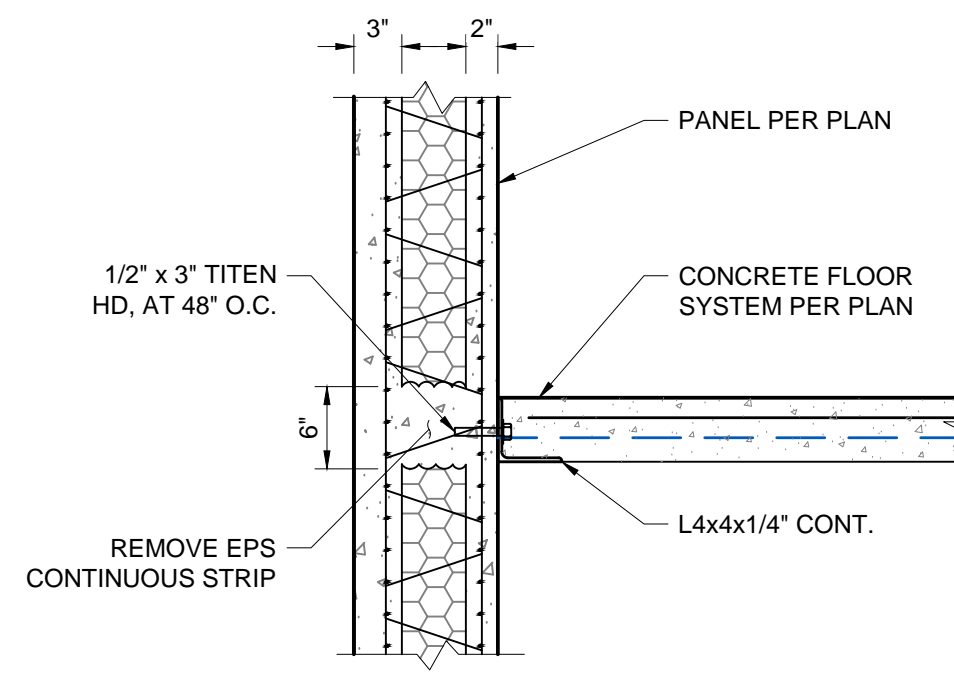
TYP PANEL TO PANEL IN-LINE CONNECTION 1
SCALE: 1 1/2"=1'-0"



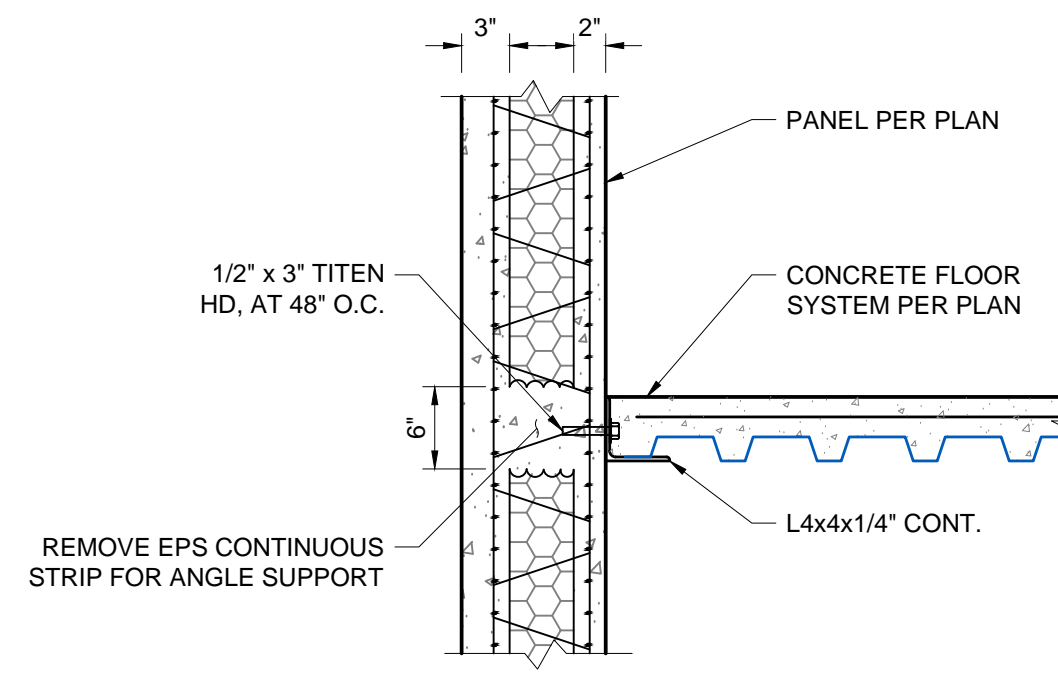
PANEL CONNECTION AT OUTSIDE CORNER 2
SCALE: 1 1/2"=1'-0"



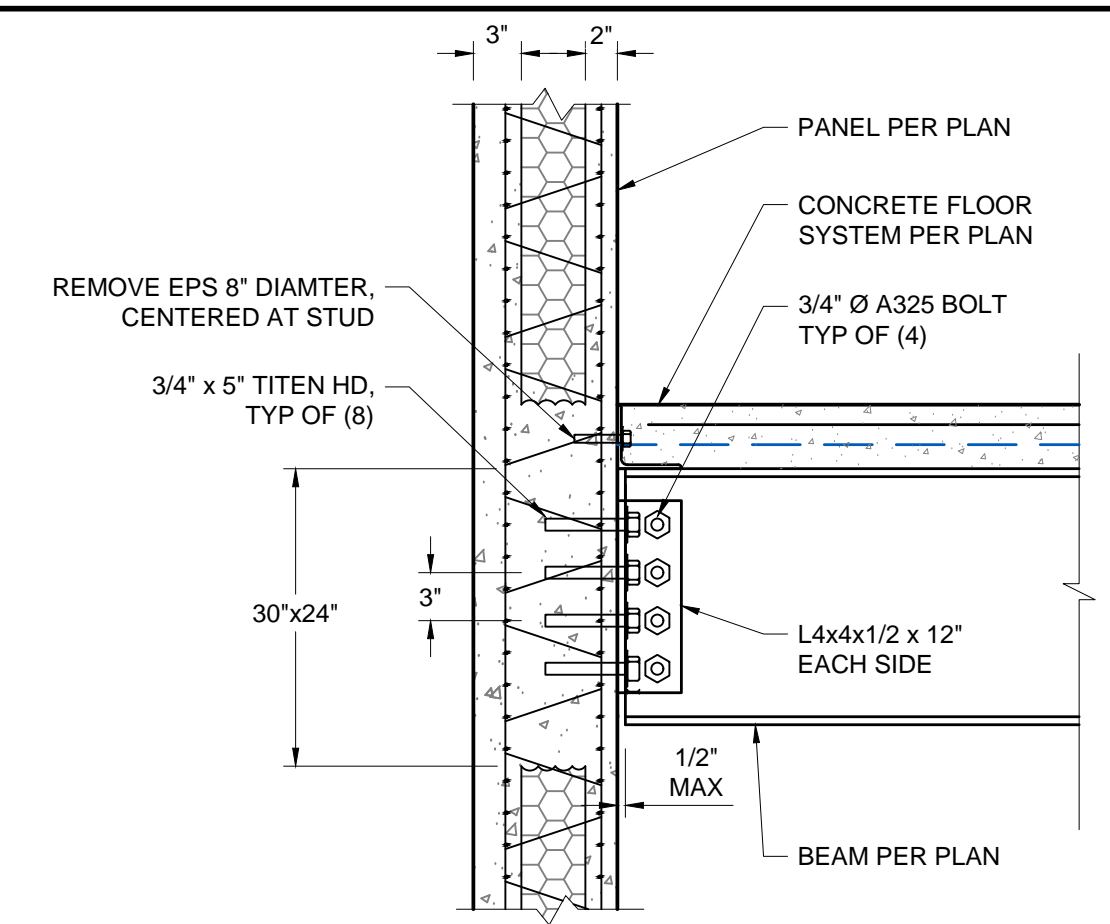
PANEL TO PANEL CONNECTION AT RETURN 3
SCALE: 1 1/2"=1'-0"



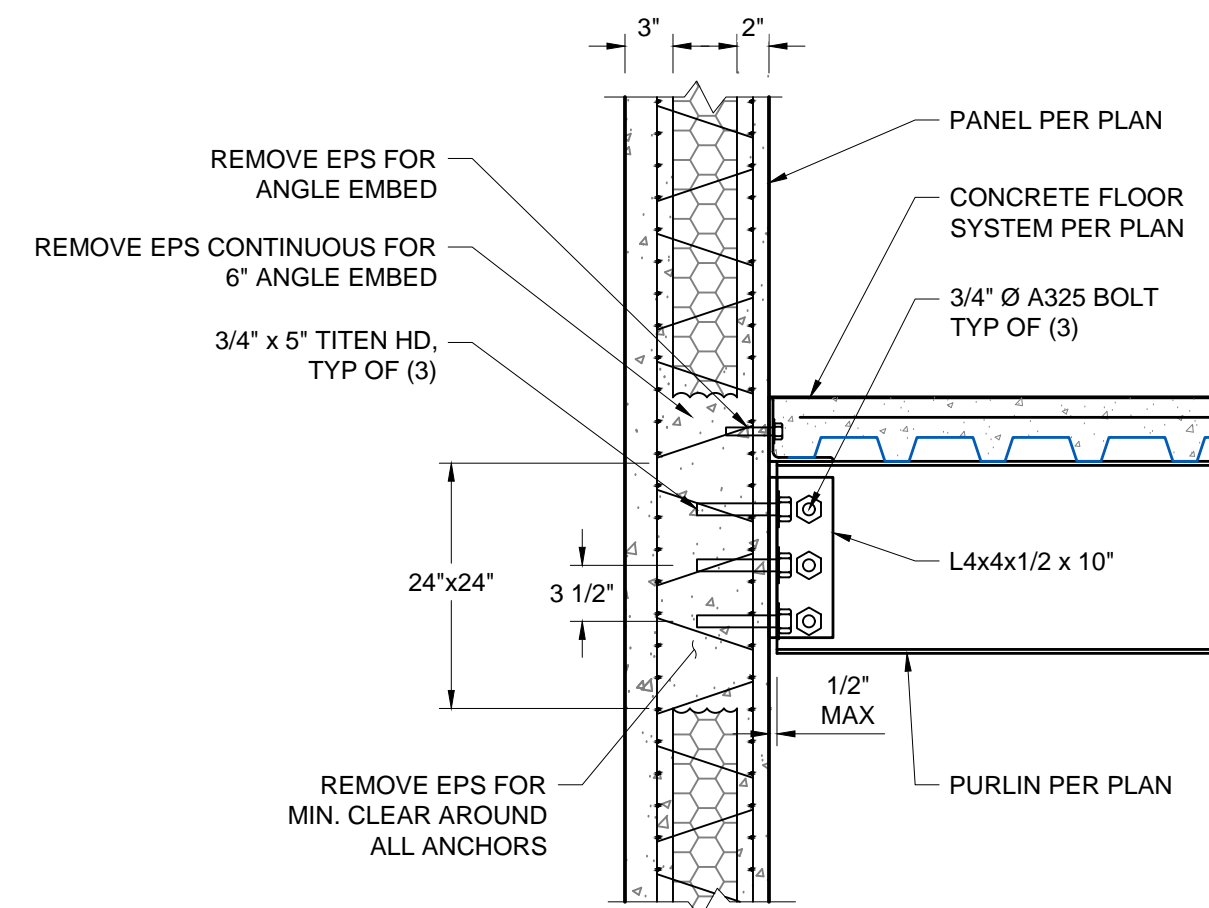
METAL DECK BEARING AT PANEL 4
SCALE: 1"=1'-0"



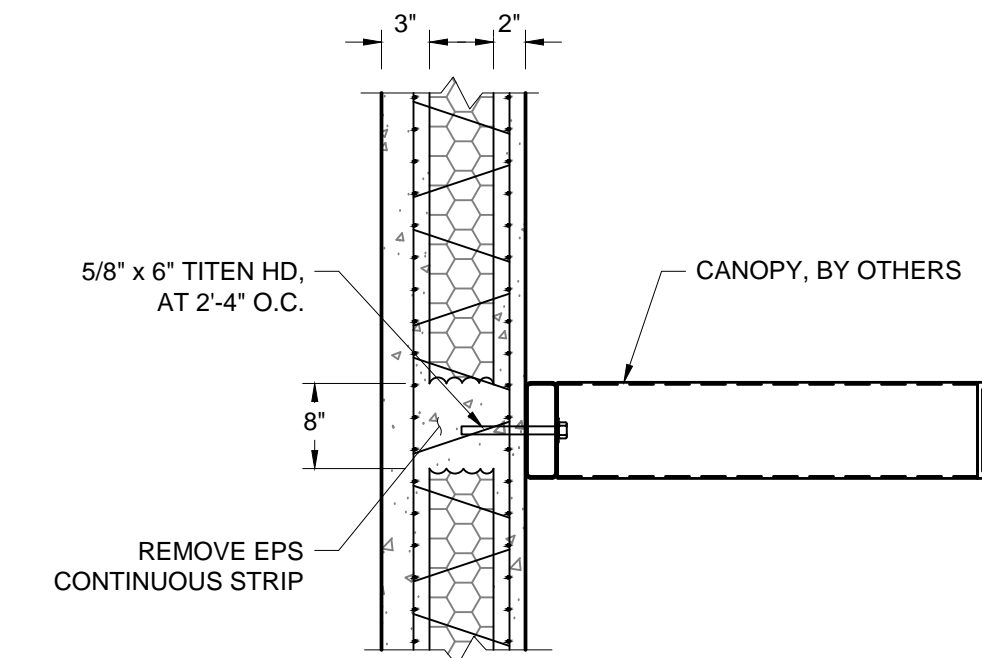
METAL DECK AT PANEL 5
SCALE: 1"=1'-0"



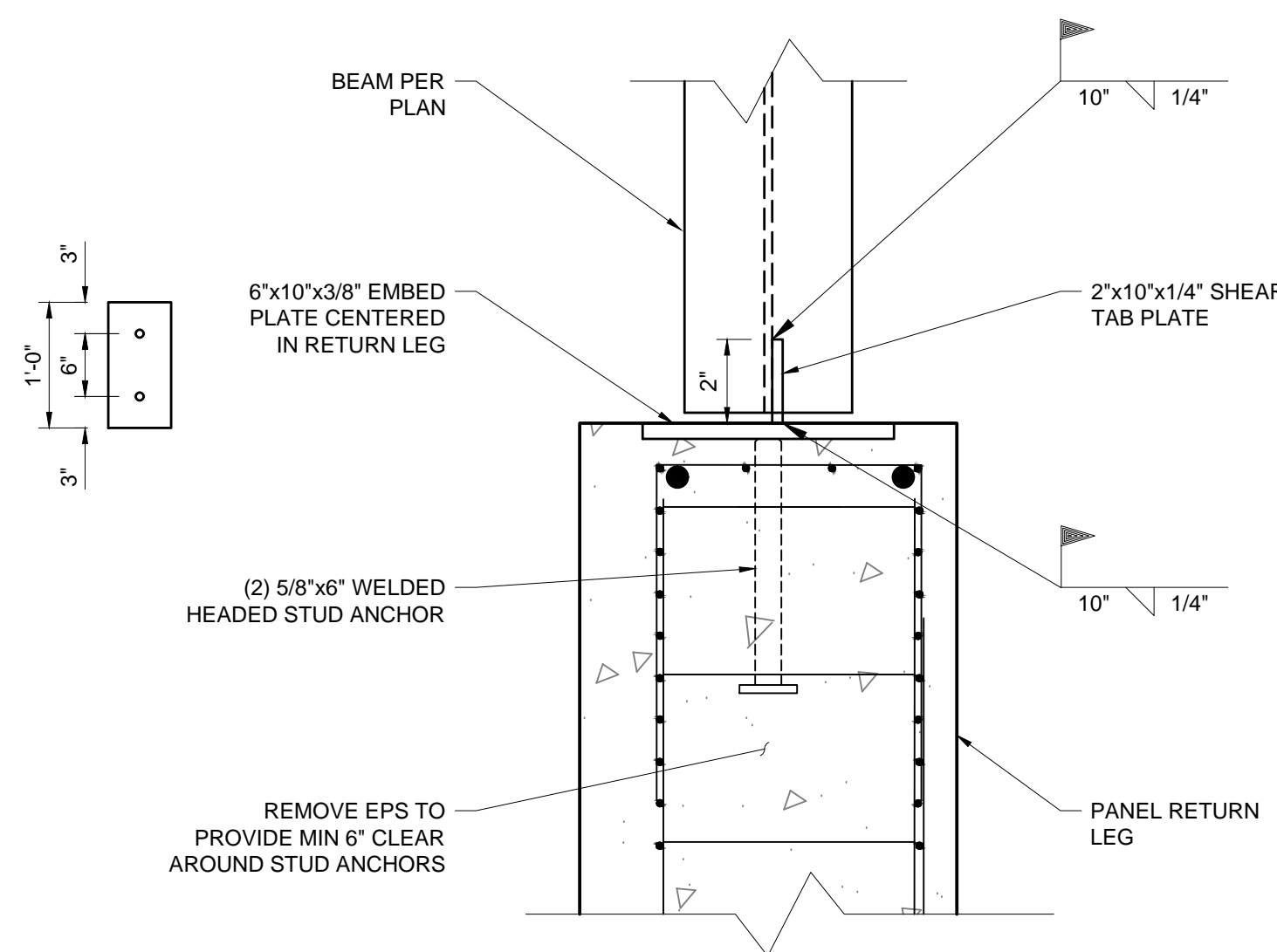
BEAM CONNECTION TO PANEL 6
SCALE: 1"=1'-0"



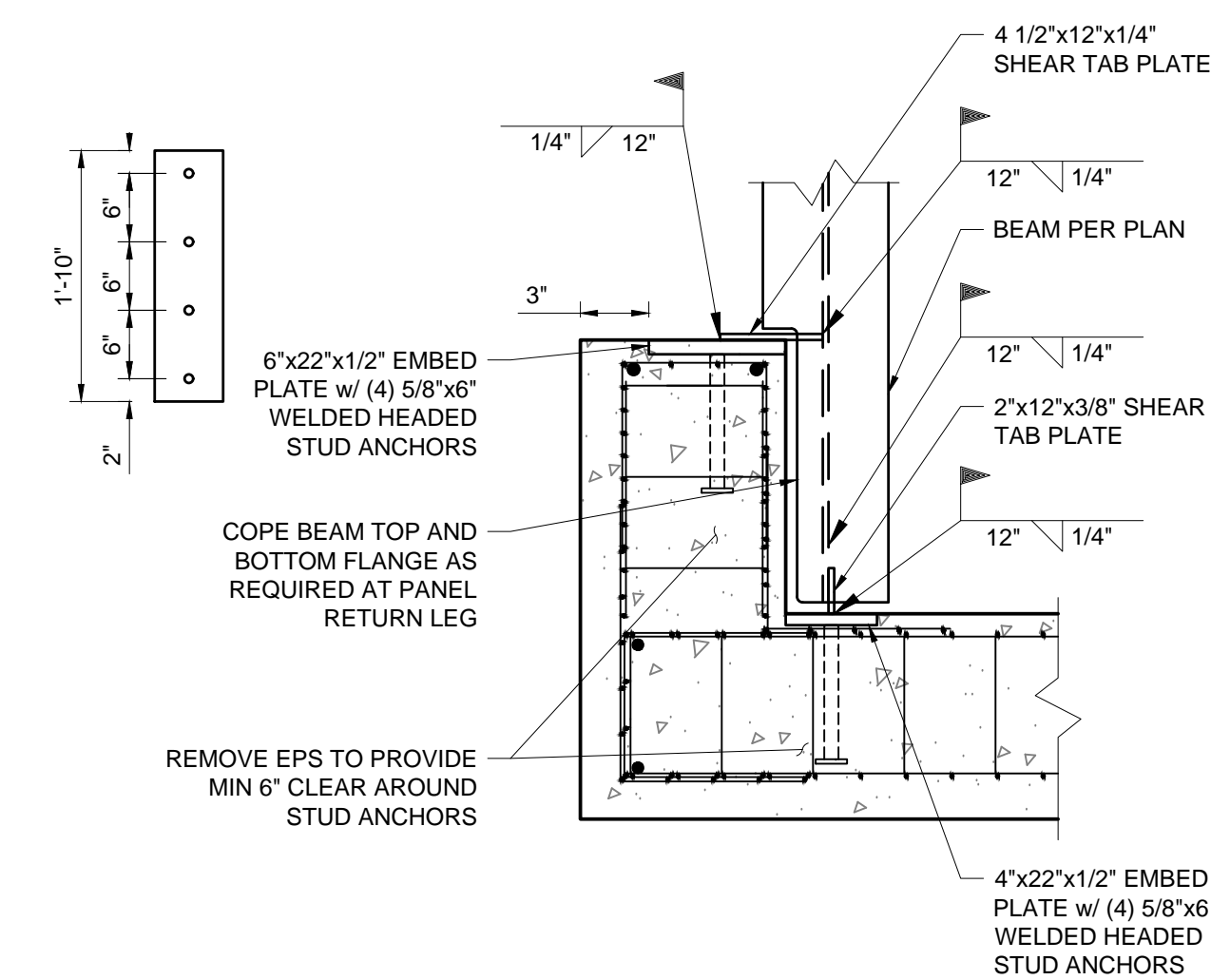
PURLIN CONNECTION TO PANEL 7
SCALE: 1"=1'-0"



AWNING CONNECTION TO PANEL 8
SCALE: 1"=1'-0"



BEAM EMBED AT PANEL RETURN LEG 9
SCALE: 3"=1'-0"



BEAM EMBED NEAR PANEL RETURN LEG 10
SCALE: 1 1/2"=1'-0"

ATTENTION
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AT FULL SIZE
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PROJECT NAME

CONNECTION DETAILS

SHEET NO:

S6

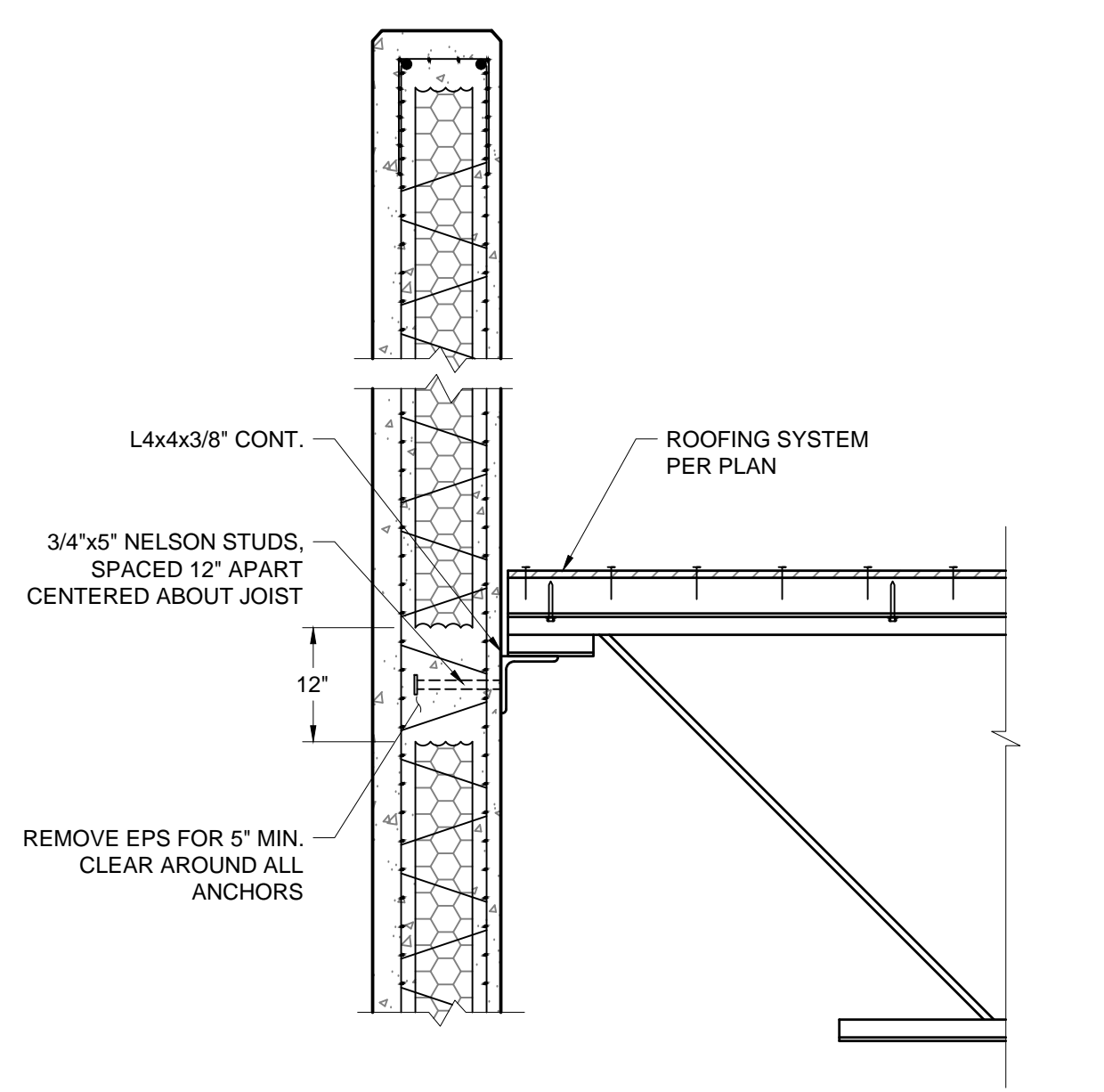
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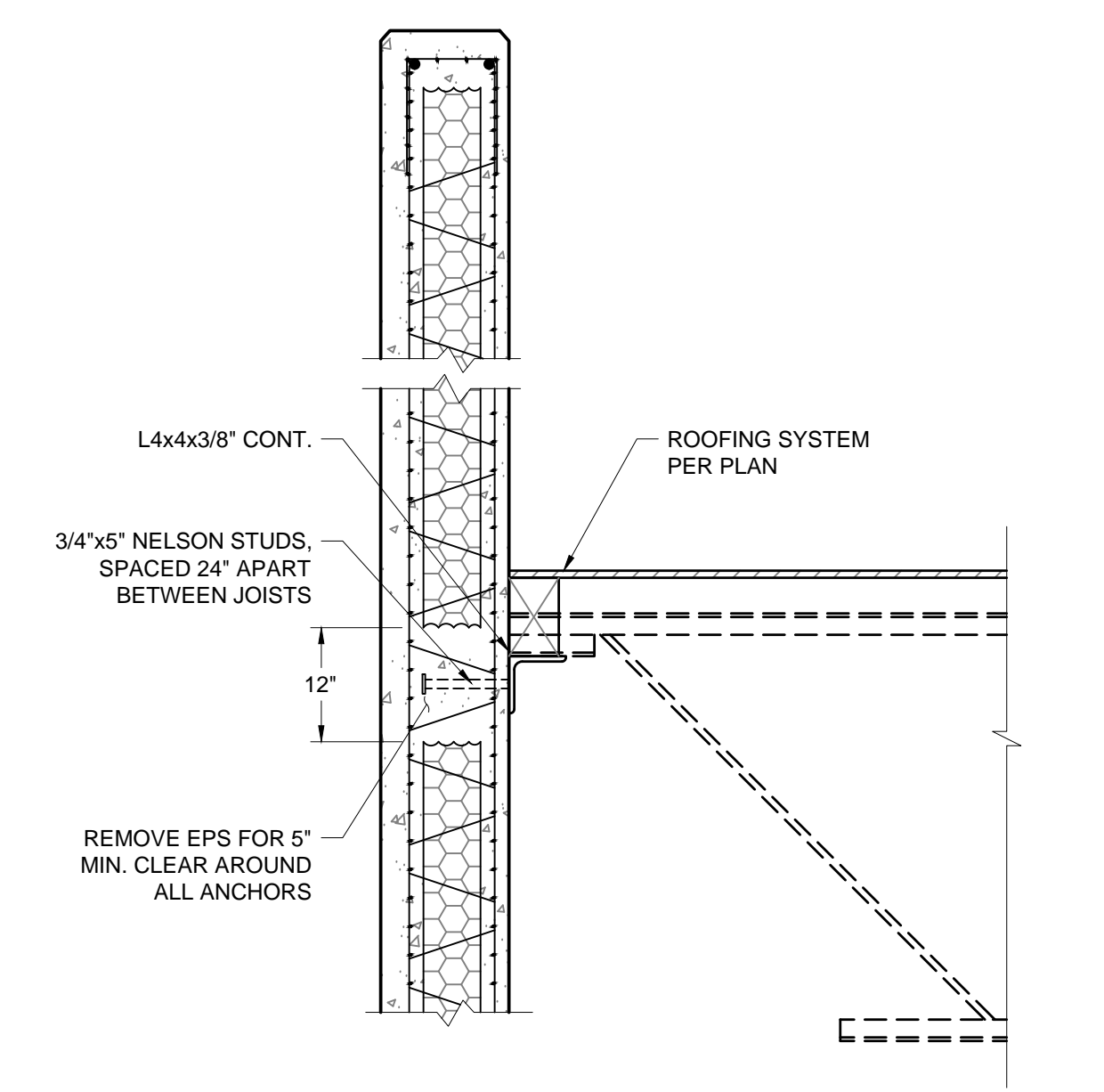
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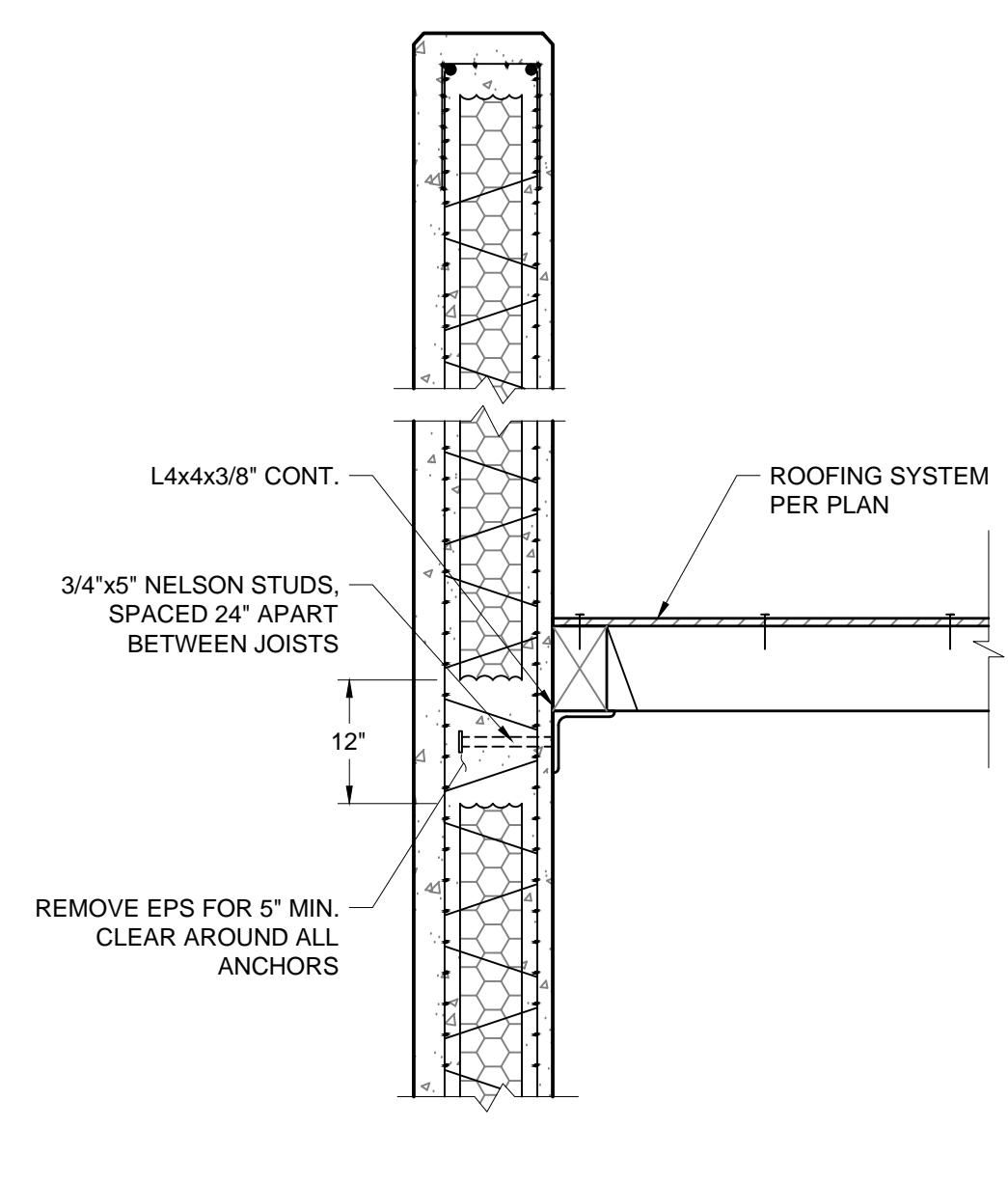
GENERAL SHEET NOTES:
 1. ALL ROOF FRAMING, JOIST CONNECTIONS, EMBED CONNECTIONS AND WELDS ARE BY KEEGAN ENGINEERING DRAWINGS



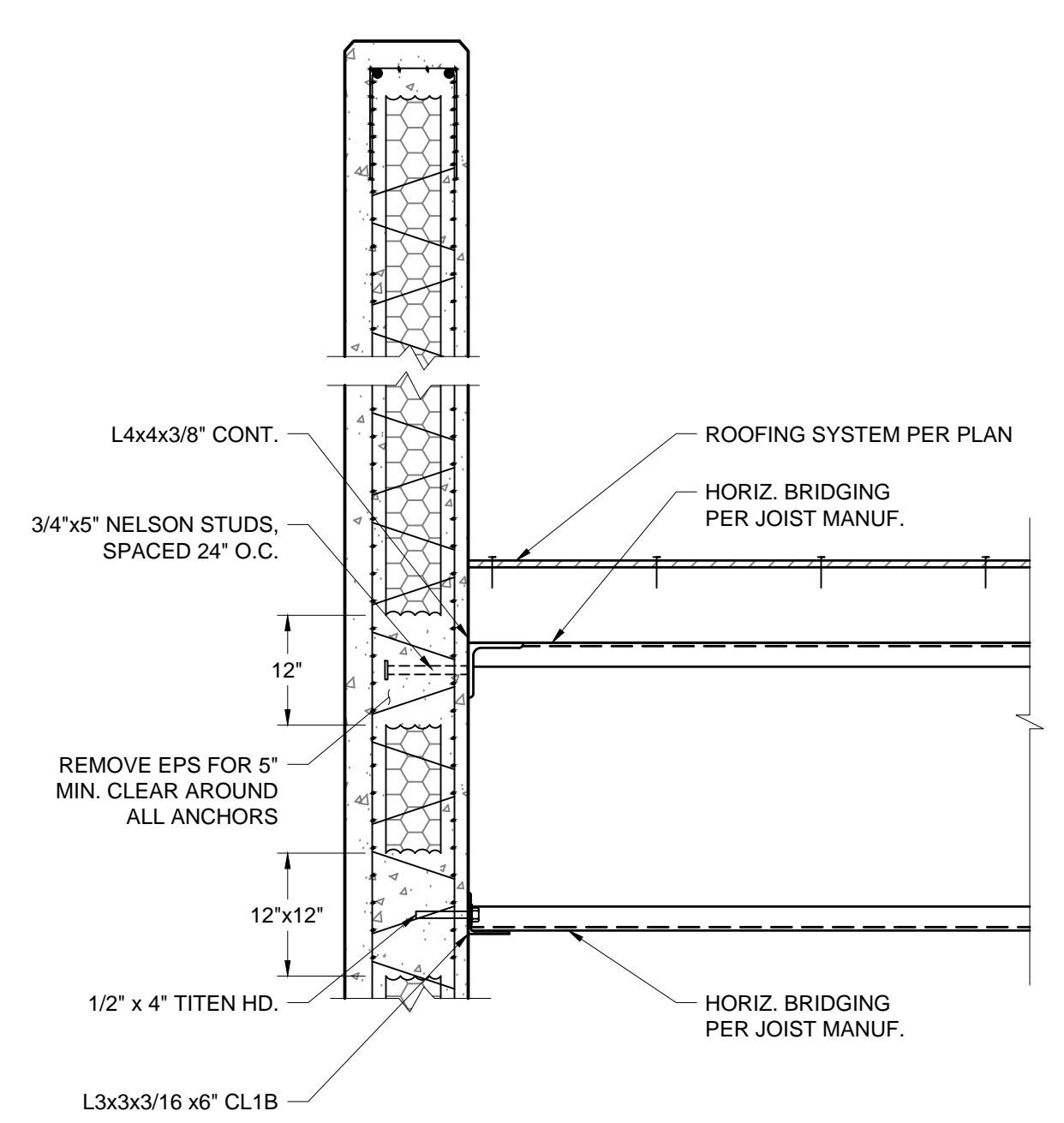
TYP K JOIST BEARING AT EXTERIOR WALL 1
 SCALE: 1 1/2"=1'-0"



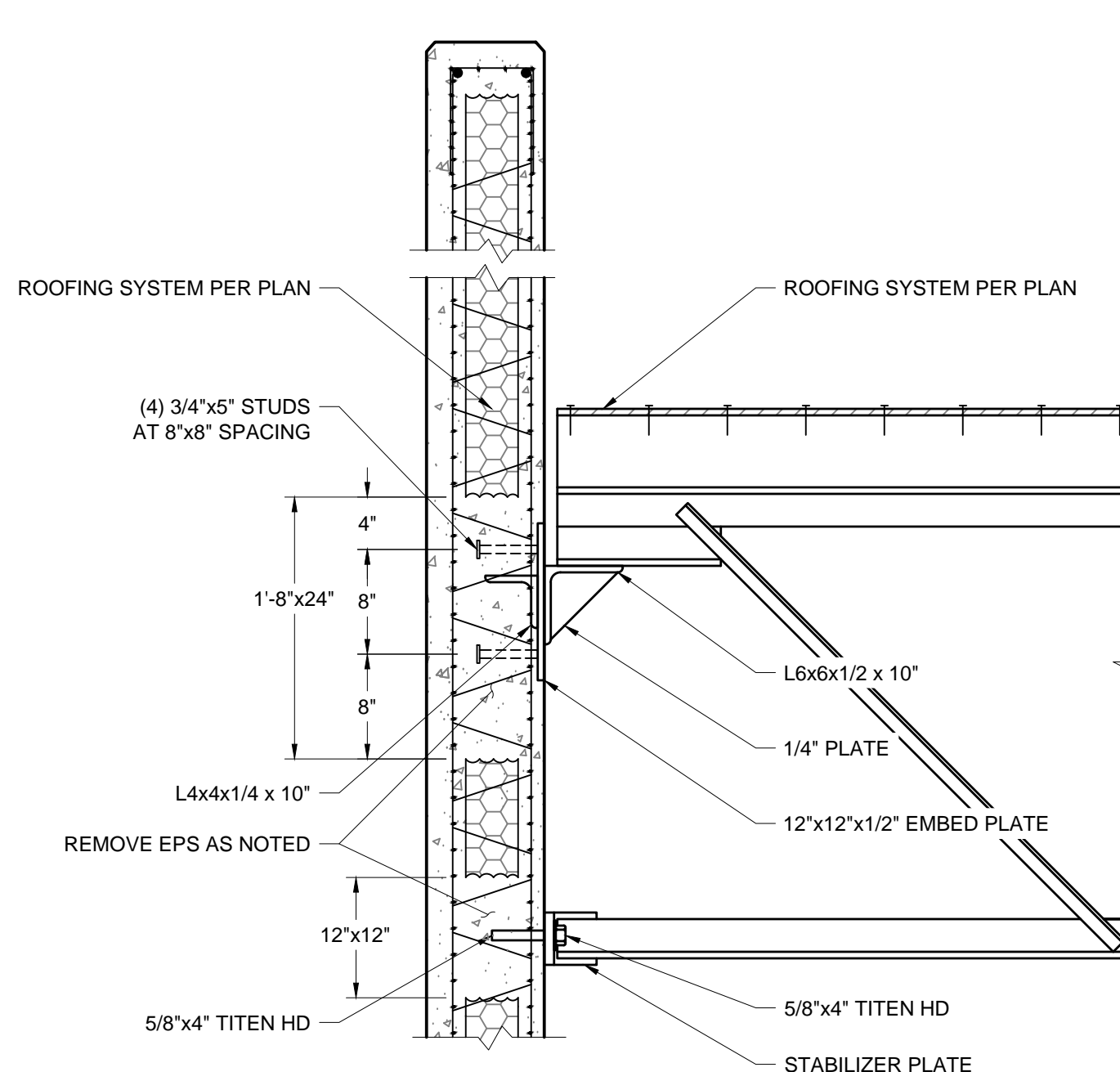
BETWEEN JOIST BEARING AT EXTERIOR WALL 2
 SCALE: 1 1/2"=1'-0"



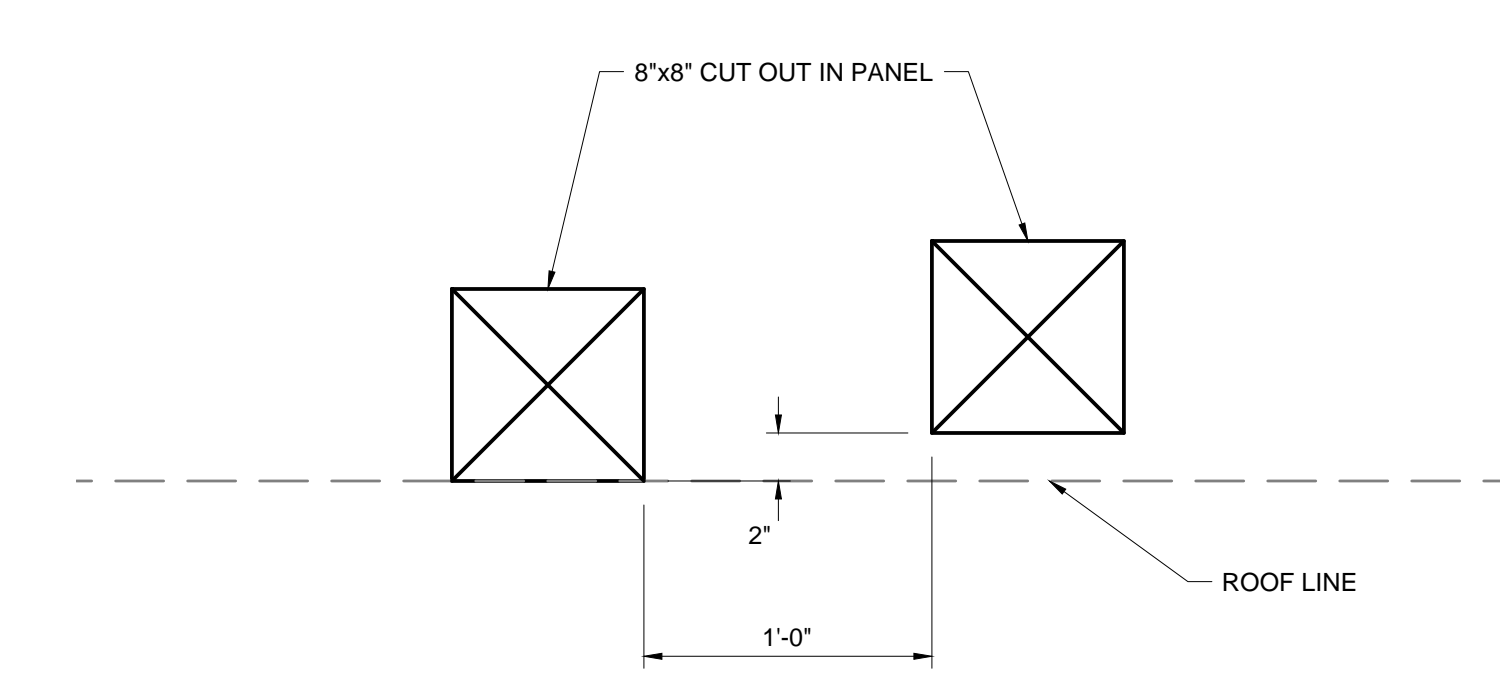
END WALL SECTION 3
 SCALE: 1 1/2"=1'-0"



BAR JOIST BRIDGING AT WALL SECTION 4
 SCALE: 1 1/2"=1'-0"



JOIST GIRDER TO WALL 5
 SCALE: 1 1/2"=1'-0"



SCUPPER AND OVERFLOW SCUPPER 6
 SCALE: 1 1/2"=1'-0"

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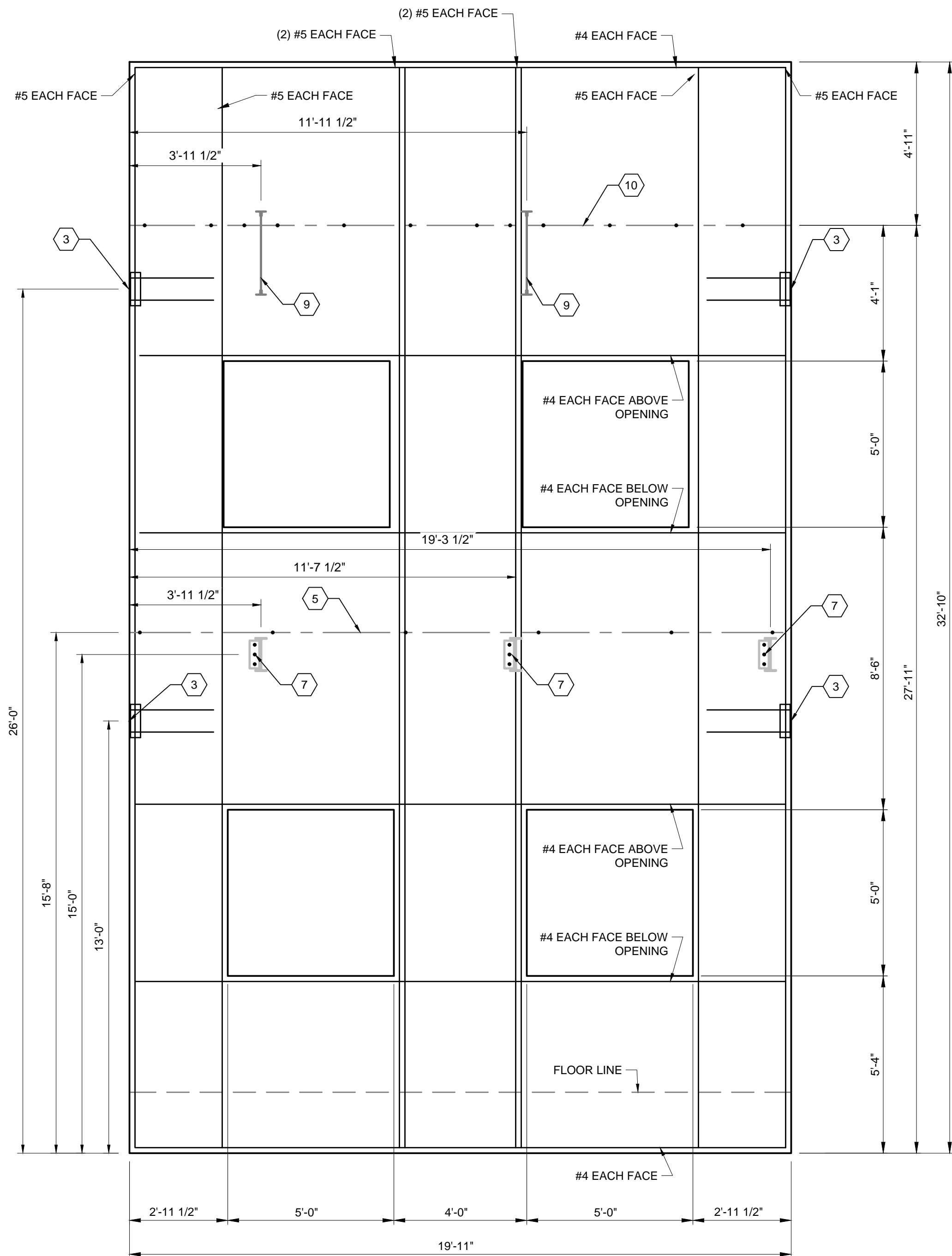
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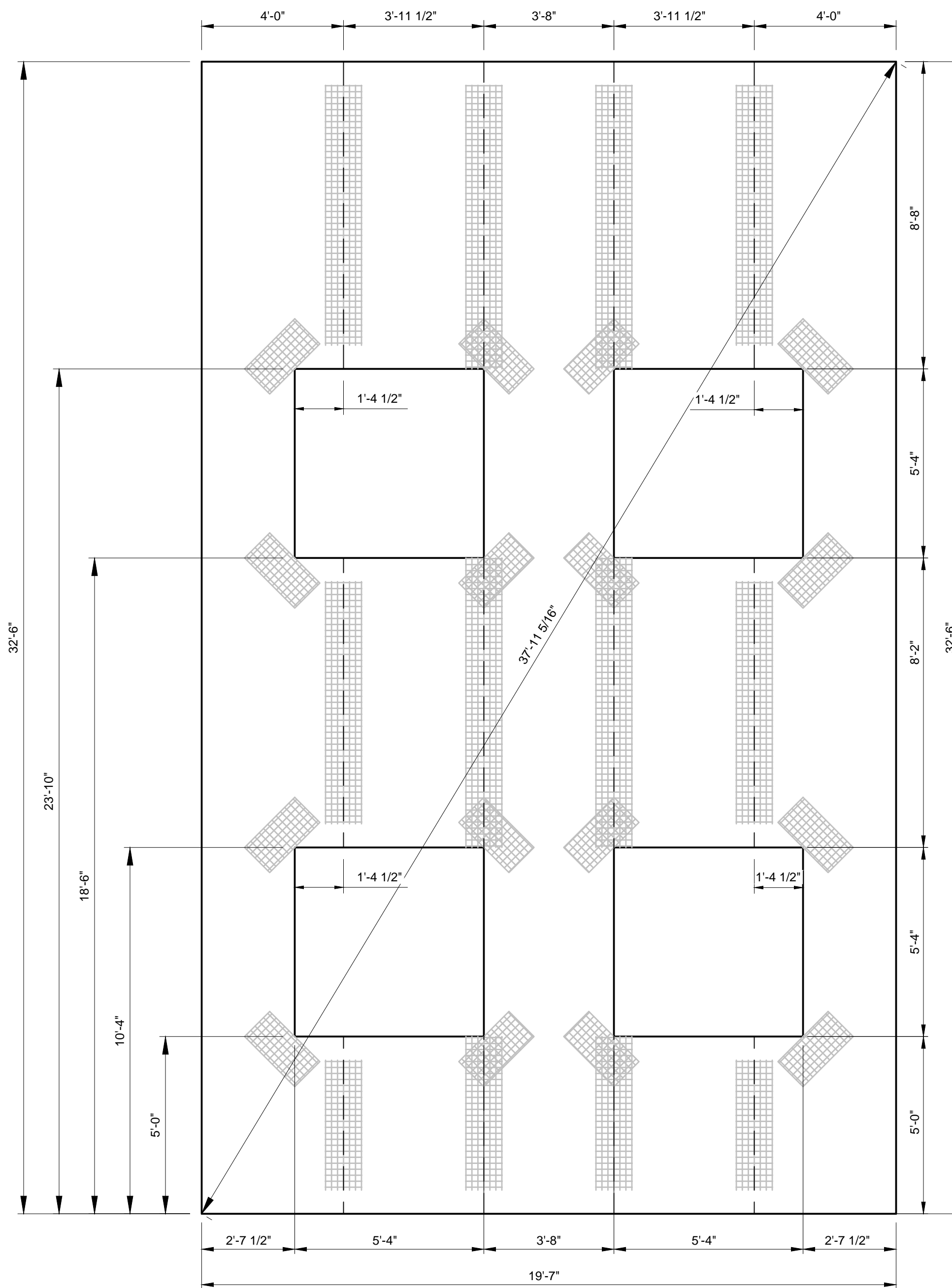
PROJECT NAME
CONNECTION DETAILS

SHEET NO:	S7
DATE:	
PAGE NO:	
OF	

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)



PANEL 2 - DIMENSIONS
3/8" = 1'-0"



PANEL 2 - INNSTRUCT LAYOUT
3/8" = 1'-0"

GENERAL SHEET NOTES:

- SEE TILT-UP PANEL FOUNDATION DETAILS ON SHEET S5.

SHEET KEY NOTES:

- PANEL TO PANEL IN-LINE CONNECTION EMBED. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 1 SHEET S6.
- PANEL CONNECTION EMBED AT OUTSIDE CORNER. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 2 SHEET S6.
- PANEL TO PANEL CONNECTION EMBED AT RETURN. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 3 SHEET S6.
- LEDGER CONNECTION FOR METAL DECK BEARING. REMOVE A 6" CONTINUOUS STRIP OF EPS AT LEDGER LOCATION, AS SHOWN IN DETAIL 4 SHEET S6.
- LEDGER CONNECTION FOR METAL DECK AT PANEL. REMOVE A 6" CONTINUOUS STRIP OF EPS AT LEDGER LOCATION, AS SHOWN IN DETAIL 5 SHEET S6.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 6 SHEET S6.
- FLOOR PURLIN CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 7 SHEET S6.
- AWNING CONNECTION TO PANEL. REMOVE A 8" CONTINUOUS STRIP OF EPS AT AWNING CONNECTION AS SHOWN IN DETAIL 8 SHEET S6.
- ROOF JOIST LEDGER CONNECTION AT PANEL WALL. REMOVE EPS AT ROOF LEDGER CONNECTION. SEE DETAIL 1 SHEET S7.
- ROOF LEDGER BETWEEN JOISTS. REMOVE EPS AT LEDGER CONNECTION AS SHOWN IN DETAIL 2 SHEET S7.
- ROOF LEDGER AT END WALL. REMOVE EPS AT LEDGER AS SHOWN IN DETAIL 3 SHEET S7.
- BAR JOIST BRIDGING CONNECTION AT ROOF JOIST. REMOVE EPS AT LEDGER CONNECTION AS WELL AS 12"x12" EPS REMOVAL AT BRIDGING BOTTOM ANCHOR, AS SHOWN IN DETAIL 4 SHEET S7.
- JOIST GIRDER EMBED AT PANEL WALL. REMOVE EPS PER DETAIL 5 SHEET S7.
- REMOVE EPS BELOW JOIST GIRDER EMBED TO PROVIDE 9" x 9" COLUMN TO FOUNDATION. PROVIDE (2) #6 AT EACH FACE FOR COLUMN REINFORCEMENT.
- SCUPPER AND OVERFLOW SCUPPER AS SHOWN IN DETAIL 6 SHEET S7.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 10 SHEET S6.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 9 SHEET S6.

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DATE	

PROJECT NAME

PANEL ELEVATIONS

SHEET NO:

SP2

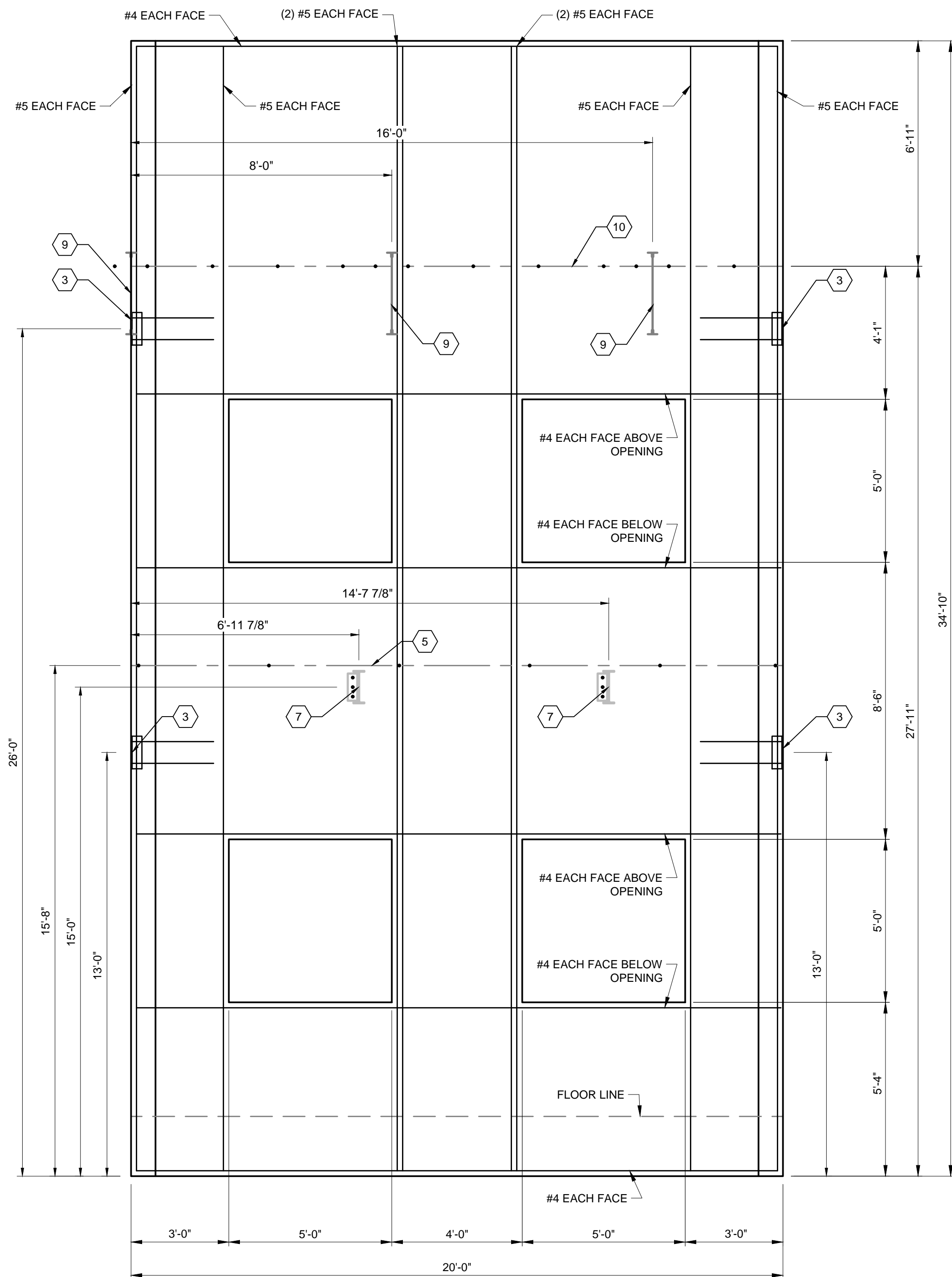
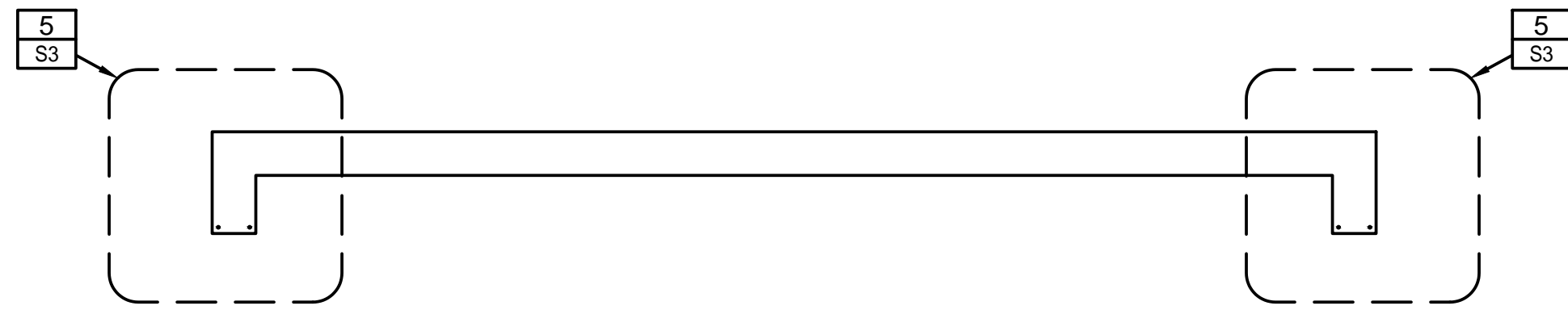
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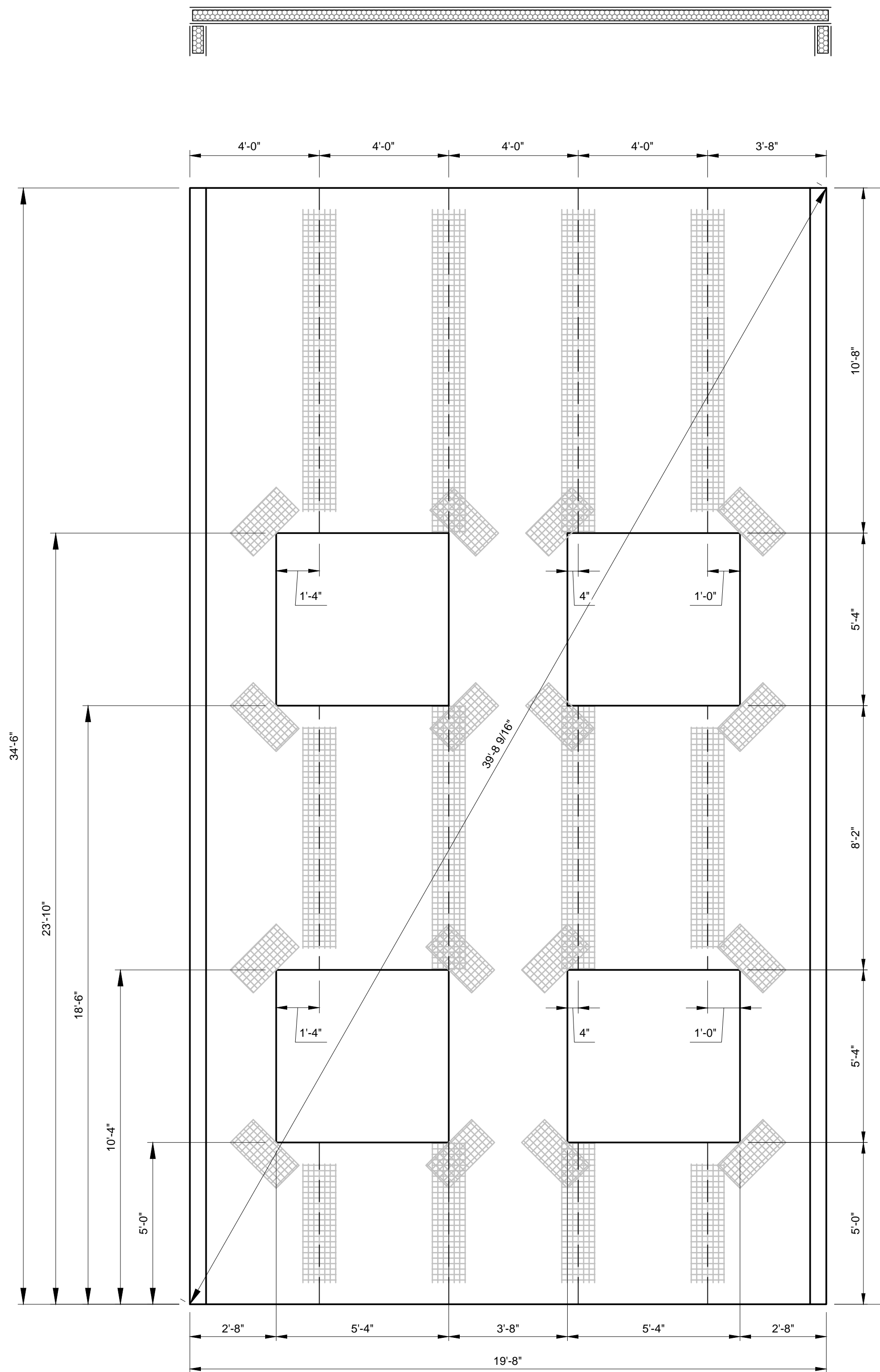
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ATTENTION
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 AT FULL SIZE
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PANEL 3 - DIMENSIONS
3/8" = 1'-0"



PANEL 3 - INNSTRUCT LAYOUT
3/8" = 1'-0"

GENERAL SHEET NOTES:

- SEE TILT-UP PANEL FOUNDATION DETAILS ON SHEET S5.

SHEET KEY NOTES:

- PANEL TO PANEL IN-LINE CONNECTION EMBED. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 1 SHEET S6.
- PANEL CONNECTION EMBED AT OUTSIDE CORNER. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 2 SHEET S6.
- PANEL TO PANEL CONNECTION EMBED AT RETURN. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 3 SHEET S6.
- LEDGER CONNECTION FOR METAL DECK BEARING. REMOVE A 6" CONTINUOUS STRIP OF EPS AT LEDGER LOCATION, AS SHOWN IN DETAIL 4 SHEET S6.
- LEDGER CONNECTION FOR METAL DECK AT PANEL. REMOVE A 6" CONTINUOUS STRIP OF EPS AT LEDGER LOCATION, AS SHOWN IN DETAIL 5 SHEET S6.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 6 SHEET S6.
- FLOOR PURLIN CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 7 SHEET S6.
- AWNING CONNECTION TO PANEL. REMOVE A 8" CONTINUOUS STRIP OF EPS AT AWNING CONNECTION AS SHOWN IN DETAIL 8 SHEET S6.
- ROOF JOIST LEDGER CONNECTION AT PANEL WALL. REMOVE EPS AT ROOF LEDGER CONNECTION. SEE DETAIL 1 SHEET S7.
- ROOF LEDGER BETWEEN JOISTS. REMOVE EPS AT LEDGER CONNECTION AS SHOWN IN DETAIL 2 SHEET S7.
- ROOF LEDGER AT END WALL. REMOVE EPS AT LEDGER AS SHOWN IN DETAIL 3 SHEET S7.
- BAR JOIST BRIDGING CONNECTION AT ROOF JOIST. REMOVE EPS AT LEDGER CONNECTION AS WELL AS 12"x12" EPS REMOVAL AT BRIDGING BOTTOM ANCHOR, AS SHOWN IN DETAIL 4 SHEET S7.
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- SCUPPER AND OVERFLOW SCUPPER AS SHOWN IN DETAIL 6 SHEET S7.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 10 SHEET S6.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 9 SHEET S6.

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PROJECT NAME

PANEL ELEVATIONS

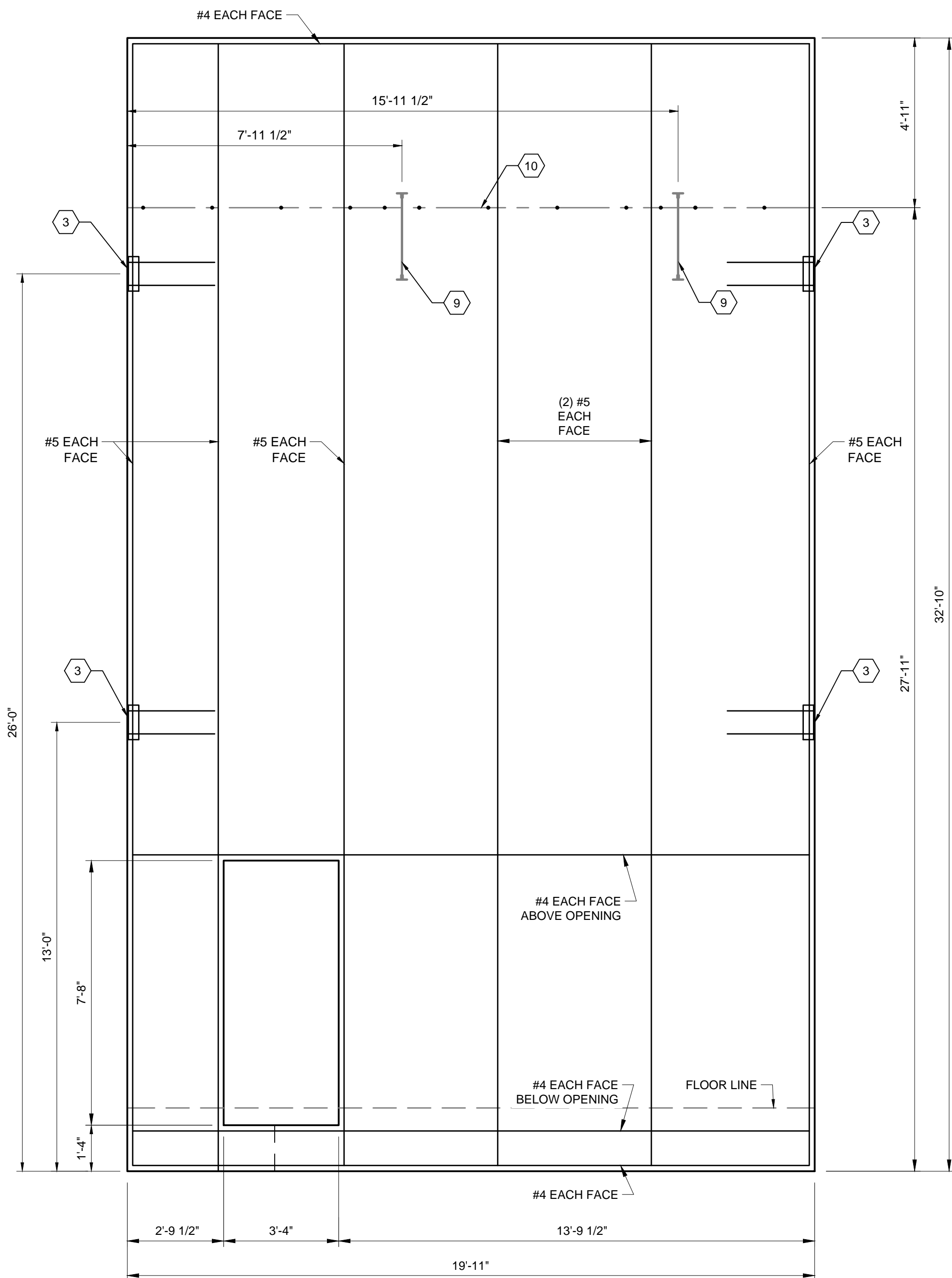
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SP3

DATE:

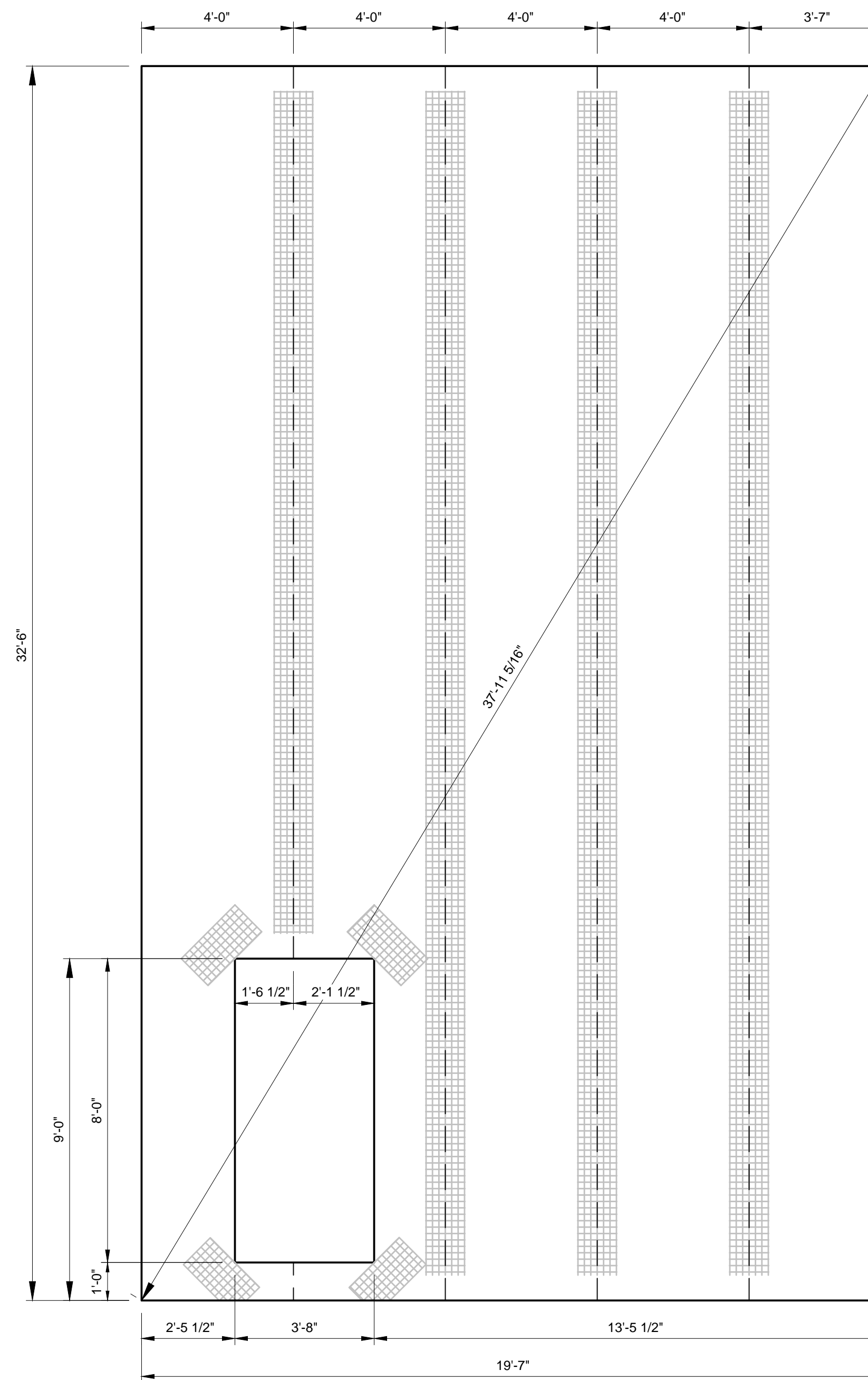
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 (IF NOT 2" SCALE ACCORDINGLY)

G:\Projects 19\14-19-02\14 Diablo Triangle Tilt-Up\CAD\Sheets\Structural\Diablo Triangle Tilt-Up Plan Set.dwg - 5/14/2020 2:07 PM



PANEL 7 - DIMENSIONS
3/8" = 1'-0"



PANEL 7 - INNSTRUCT LAYOUT
3/8" = 1'-0"

GENERAL SHEET NOTES:

- SEE TILT-UP PANEL FOUNDATION DETAILS ON SHEET S5.

SHEET KEY NOTES:

- PANEL TO PANEL IN-LINE CONNECTION EMBED. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 1 SHEET S6.
- PANEL CONNECTION EMBED AT OUTSIDE CORNER. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 2 SHEET S6.
- PANEL TO PANEL CONNECTION EMBED AT RETURN. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 3 SHEET S6.
- LEDGER CONNECTION FOR METAL DECK BEARING. REMOVE A 6" CONTINUOUS STRIP OF EPS AT LEDGER LOCATION, AS SHOWN IN DETAIL 4 SHEET S6.
- LEDGER CONNECTION FOR METAL DECK AT PANEL. REMOVE A 6" CONTINUOUS STRIP OF EPS AT LEDGER LOCATION, AS SHOWN IN DETAIL 5 SHEET S6.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 6 SHEET S6.
- FLOOR PURLIN CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 7 SHEET S6.
- AWNING CONNECTION TO PANEL. REMOVE A 8" CONTINUOUS STRIP OF EPS AT AWNING CONNECTION AS SHOWN IN DETAIL 8 SHEET S6.
- ROOF JOIST LEDGER CONNECTION AT PANEL WALL. REMOVE EPS AT ROOF LEDGER CONNECTION. SEE DETAIL 1 SHEET S7.
- ROOF LEDGER BETWEEN JOISTS. REMOVE EPS AT LEDGER CONNECTION AS SHOWN IN DETAIL 2 SHEET S7.
- ROOF LEDGER AT END WALL. REMOVE EPS AT LEDGER AS SHOWN IN DETAIL 3 SHEET S7.
- BAR JOIST BRIDGING CONNECTION AT ROOF JOIST. REMOVE EPS AT LEDGER CONNECTION AS WELL AS 12"x12" EPS REMOVAL AT BRIDGING BOTTOM ANCHOR, AS SHOWN IN DETAIL 4 SHEET S7.
- JOIST GIRDER EMBED AT PANEL WALL. REMOVE EPS PER DETAIL 5 SHEET S7.
- REMOVE EPS BELOW JOIST GIRDER EMBED TO PROVIDE 9" x 9" COLUMN TO FOUNDATION. PROVIDE (2) #6 AT EACH FACE FOR COLUMN REINFORCEMENT.
- SCUPPER AND OVERFLOW SCUPPER AS SHOWN IN DETAIL 6 SHEET S7.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 10 SHEET S6.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 9 SHEET S6.

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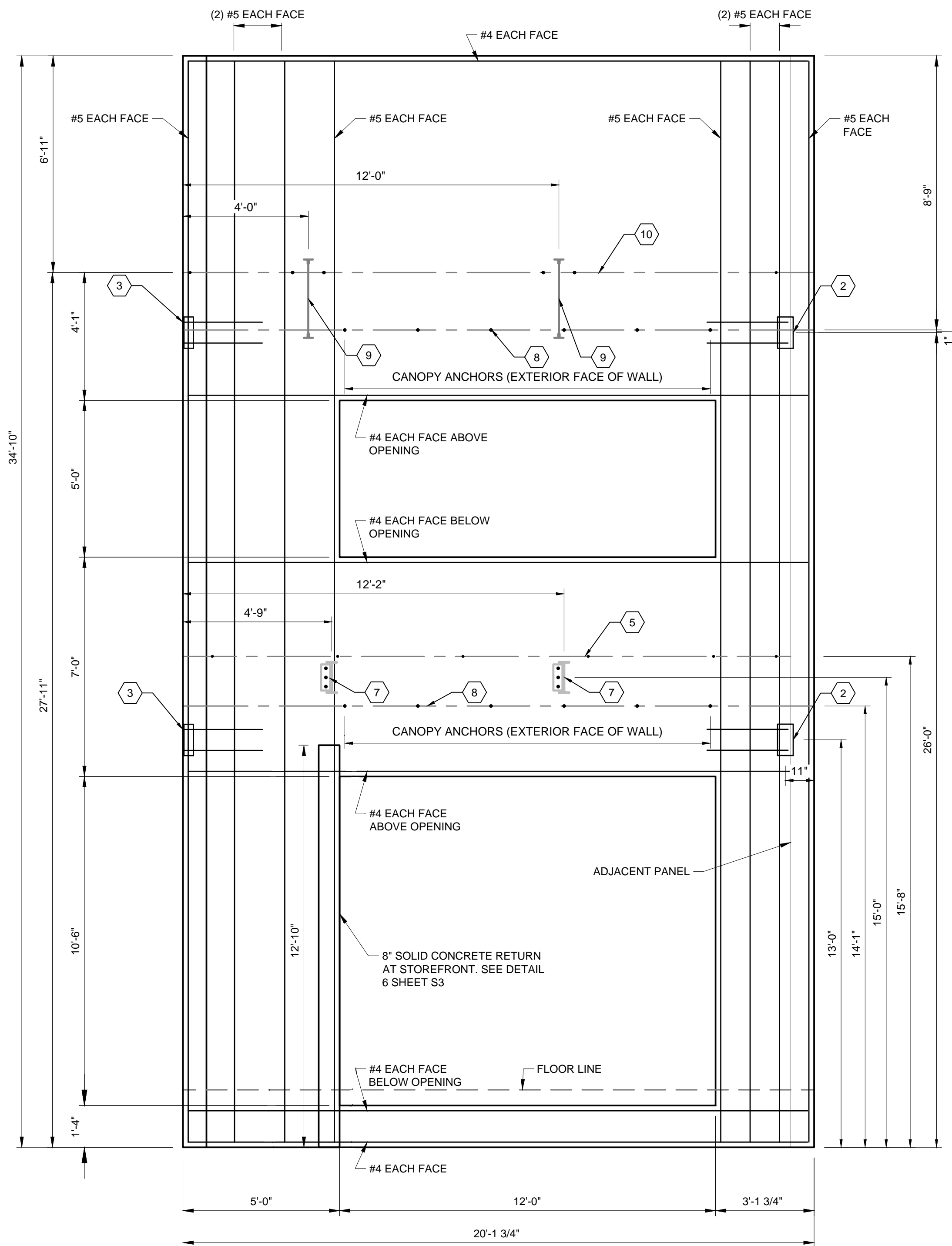
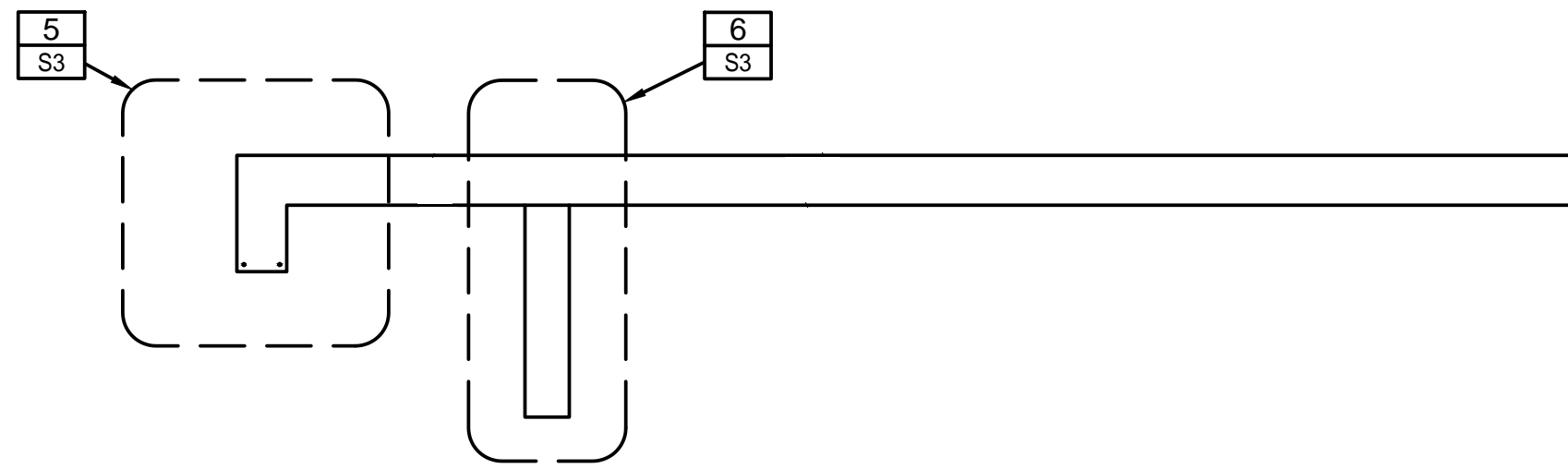
PANEL ELEVATIONS

SHEET NO:
SP7

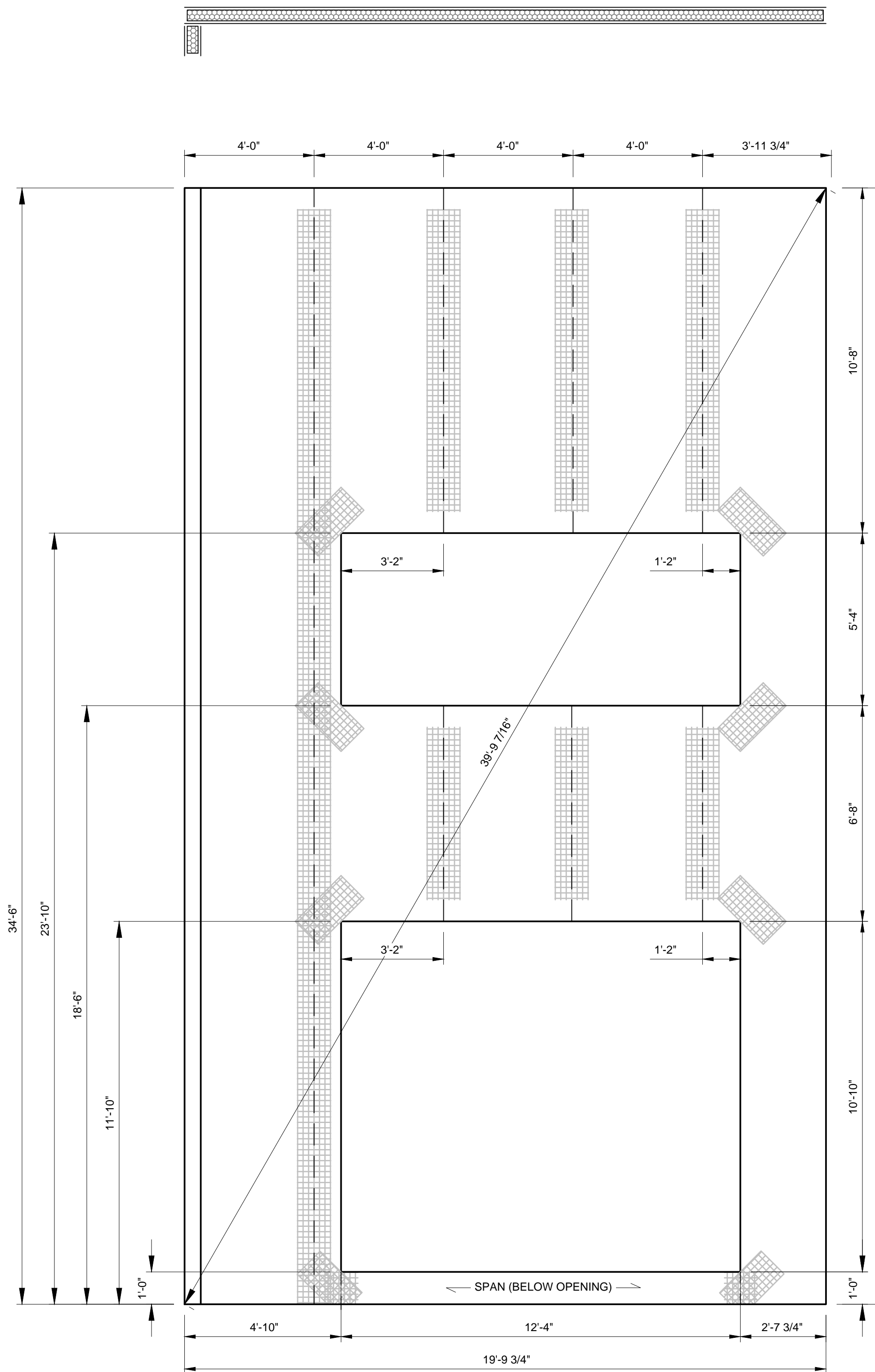
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ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)



PANEL 10 - DIMENSIONS
3/8" = 1'-0"



PANEL 10 - INNSTRUCT LAYOUT
3/8" = 1'-0"

GENERAL SHEET NOTES:

- SEE TILT-UP PANEL FOUNDATION DETAILS ON SHEET S5.

SHEET KEY NOTES:

- PANEL TO PANEL IN-LINE CONNECTION EMBED. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 1 SHEET S6.
- PANEL CONNECTION EMBED AT OUTSIDE CORNER. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 2 SHEET S6.
- PANEL TO PANEL CONNECTION EMBED AT RETURN. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 3 SHEET S6.
- LEDGER CONNECTION FOR METAL DECK BEARING. REMOVE A 6" CONTINUOUS STRIP OF EPS AT LEDGER LOCATION, AS SHOWN IN DETAIL 4 SHEET S6.
- LEDGER CONNECTION FOR METAL DECK AT PANEL. REMOVE A 6" CONTINUOUS STRIP OF EPS AT LEDGER LOCATION, AS SHOWN IN DETAIL 5 SHEET S6.
- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 6 SHEET S6.
- FLOOR PURLIN CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 7 SHEET S6.
- AWNING CONNECTION TO PANEL. REMOVE A 8" CONTINUOUS STRIP OF EPS AT AWNING CONNECTION AS SHOWN IN DETAIL 8 SHEET S6.
- ROOF JOIST LEDGER CONNECTION AT PANEL WALL. REMOVE EPS AT ROOF LEDGER CONNECTION. SEE DETAIL 1 SHEET S7.
- ROOF LEDGER BETWEEN JOISTS. REMOVE EPS AT LEDGER CONNECTION AS SHOWN IN DETAIL 2 SHEET S7.
- ROOF LEDGER AT END WALL. REMOVE EPS AT LEDGER AS SHOWN IN DETAIL 3 SHEET S7.
- BAR JOIST BRIDGING CONNECTION AT ROOF JOIST. REMOVE EPS AT LEDGER CONNECTION AS WELL AS 12"x12" EPS REMOVAL AT BRIDGING BOTTOM ANCHOR, AS SHOWN IN DETAIL 4 SHEET S7.
- JOIST GIRDER EMBED AT PANEL WALL. REMOVE EPS PER DETAIL 5 SHEET S7.
- REMOVE EPS BELOW JOIST GIRDER EMBED TO PROVIDE 9" x 9" COLUMN TO FOUNDATION. PROVIDE (2) #6 AT EACH FACE FOR COLUMN REINFORCEMENT.
- SCUPPER AND OVERFLOW SCUPPER AS SHOWN IN DETAIL 6 SHEET S7.
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- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 9 SHEET S6.

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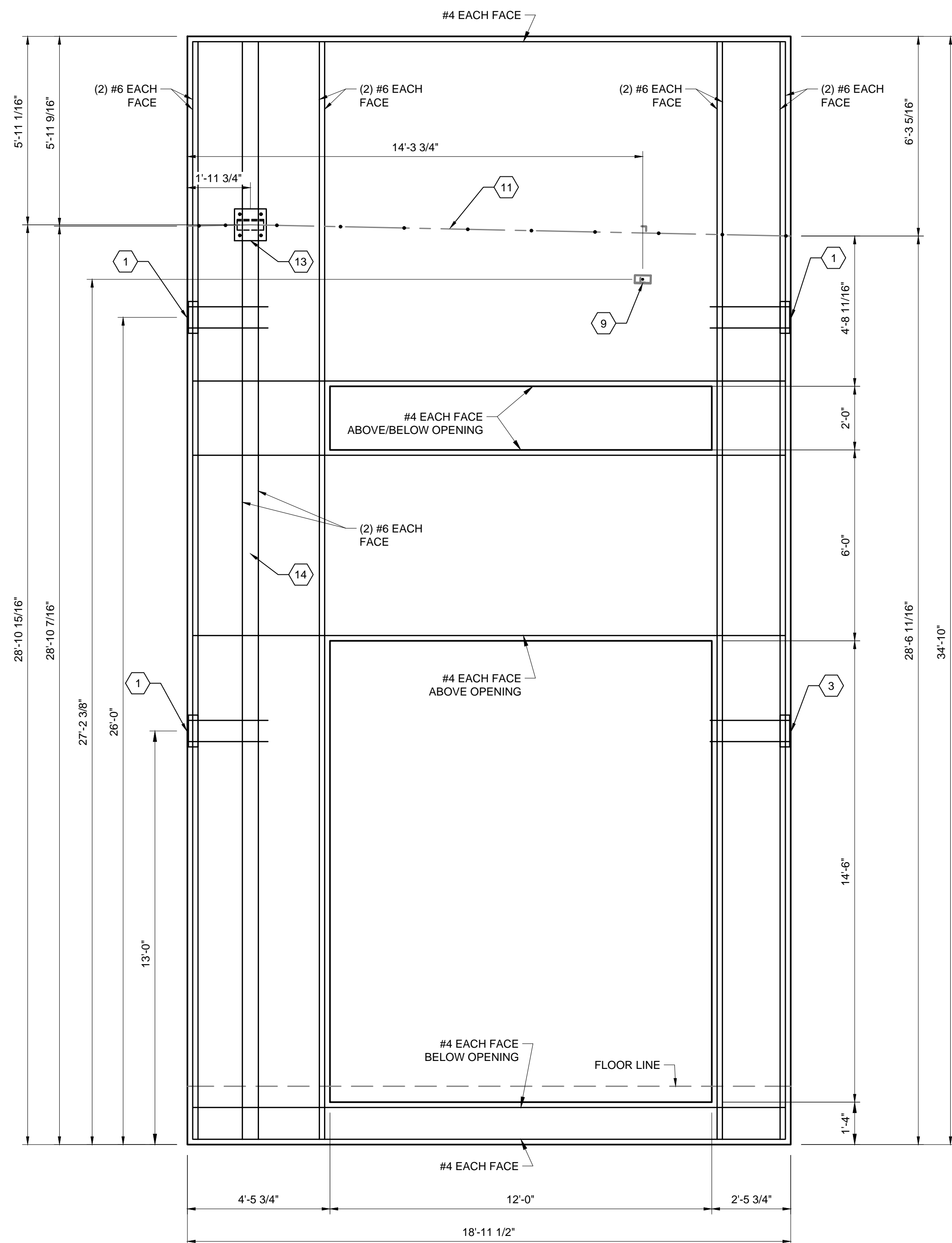
PANEL ELEVATIONS

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SP10

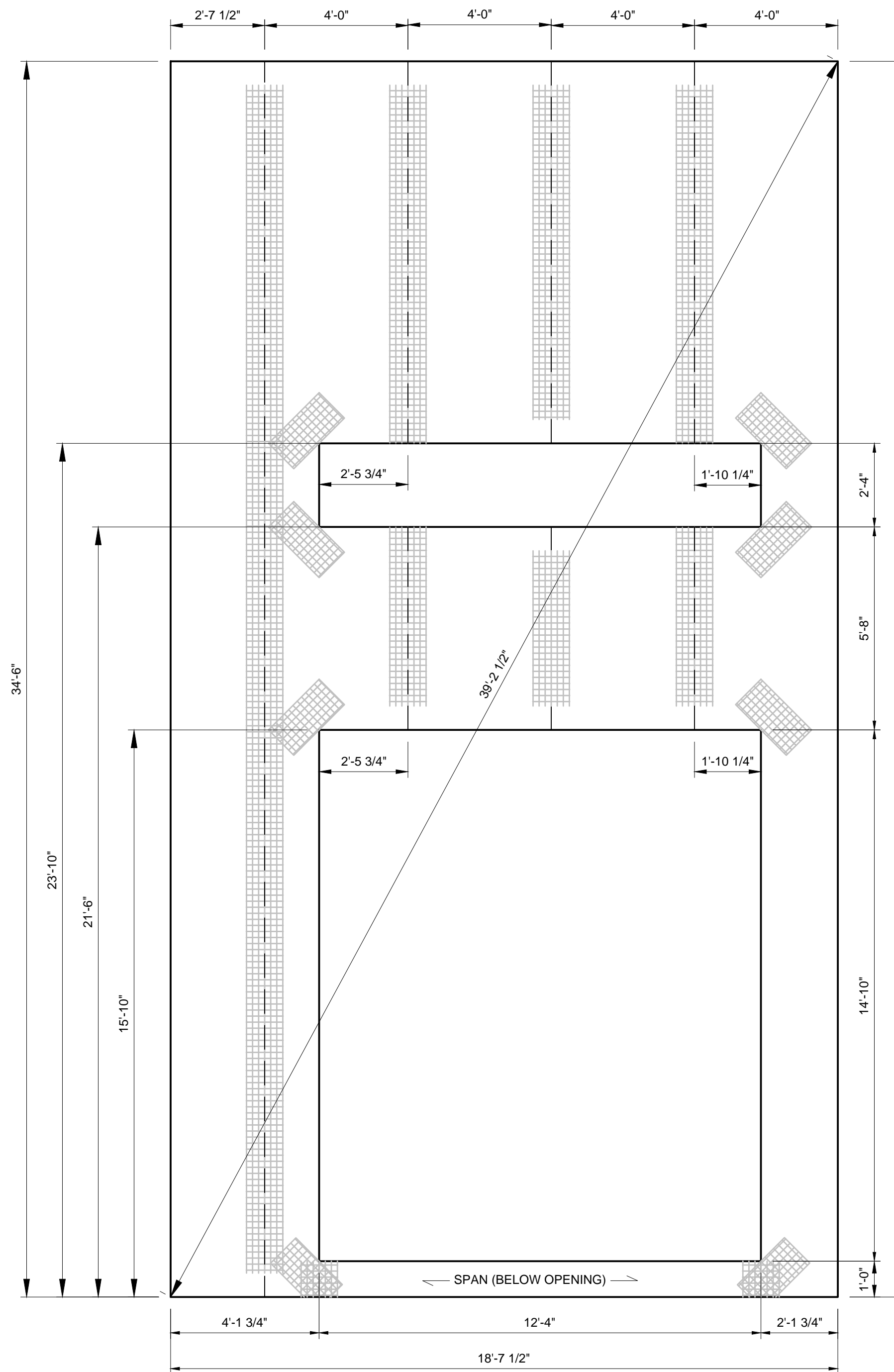
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LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)



PANEL 14 - DIMENSIONS
3/8" = 1'-0"



PANEL 14 - INNSTRUCT LAYOUT
3/8" = 1'-0"

GENERAL SHEET NOTES:

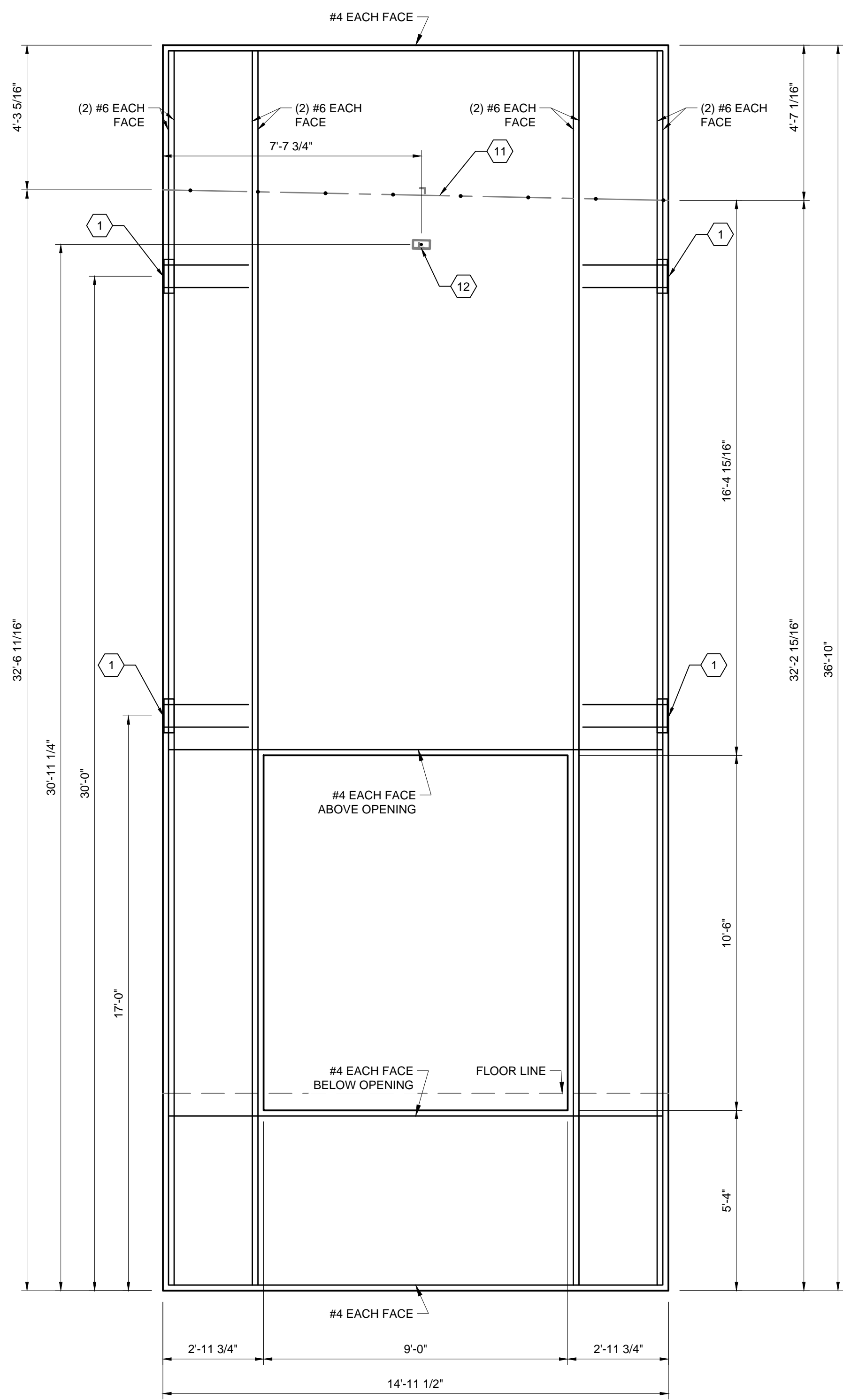
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SHEET KEY NOTES:

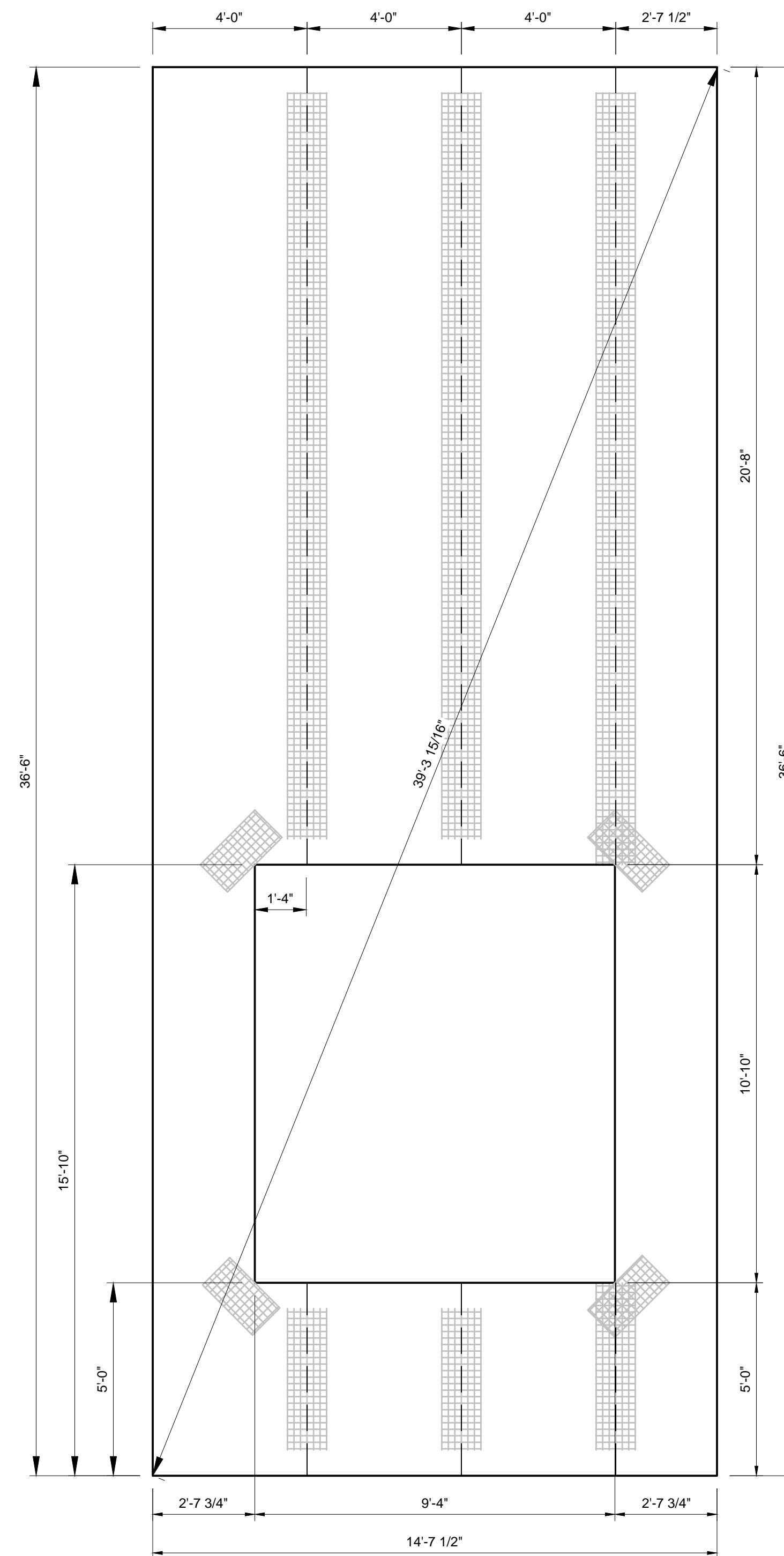
- PANEL TO PANEL IN-LINE CONNECTION EMBED. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 1 SHEET S6.
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- FLOOR BEAM CONNECTION AT PANEL. REMOVE EPS TO PROVIDE ADEQUATE CONCRETE COVER FOR ANCHORS. SEE DETAIL 9 SHEET S6.

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ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)



PANEL 15 - DIMENSIONS
3/8" = 1'-0"



PANEL 15 - INNSTRUCT LAYOUT
3/8" = 1'-0"

GENERAL SHEET NOTES:

- SEE TILT-UP PANEL FOUNDATION DETAILS ON SHEET S5.

SHEET KEY NOTES:

- PANEL TO PANEL IN-LINE CONNECTION EMBED. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 1 SHEET S6.
- PANEL CONNECTION EMBED AT OUTSIDE CORNER. REMOVE EPS TO PROVIDE MIN CONCRETE COVER, AS SHOWN IN DETAIL 2 SHEET S6.
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ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

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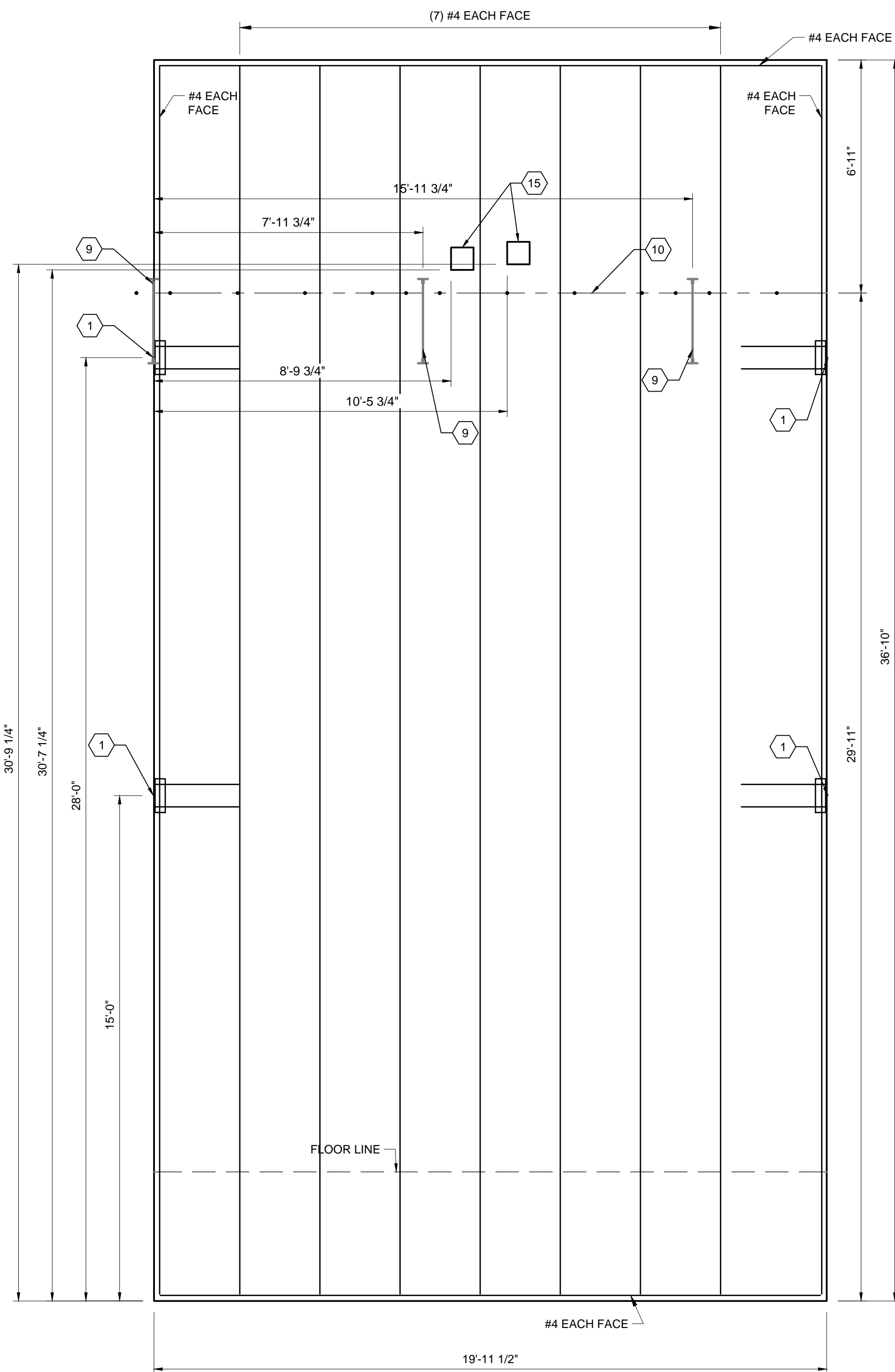
PROJECT NAME

PANEL ELEVATIONS

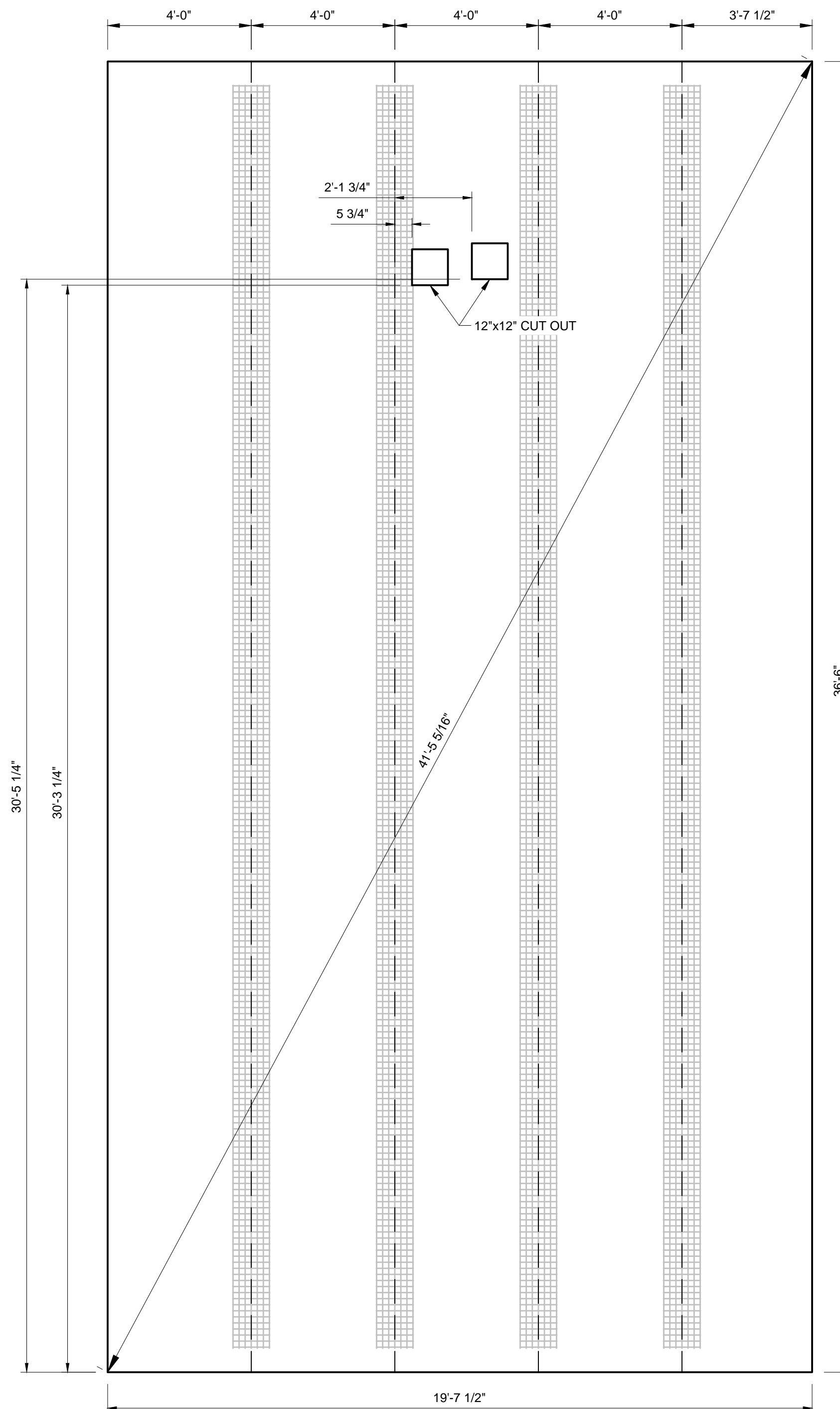
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SP15

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PANEL 19 - DIMENSIONS
3/8" = 1'-0"



PANEL 19 - INNSTRUCT LAYOUT
3/8" = 1'-0"

GENERAL SHEET NOTES:

- SEE TILT-UP PANEL FOUNDATION DETAILS ON SHEET S5.

SHEET KEY NOTES:

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ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

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PANEL ELEVATIONS

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SP19

DATE:

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