



Knapp Engineering LLC
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FENIX
Construction Company
4655 Lemay Ferry Road
St. Louis, MO 63129
Phone - 314.892.4700
Fax - 314.892.6555

Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE
FOR REVIEW AND APPROVAL

ISSUE DATE
2022-05-16

SHEET NO:

T1.1

FOR REVIEW AND APPROVAL 2022-05-16



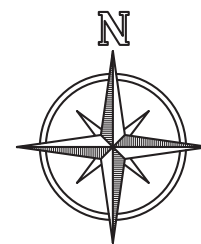
- 5719 Lawton Loop East Drive, SUITE 212, INDIANAPOLIS, IN 46216
O : 317.288.0681 F : 317.288.0753
- ☒ Reviewed as Submitted
☐ Reviewed as Noted
☐ Resubmit as Noted
☐ Disapproved, Resubmit
☐ No Action Taken

THIS REVIEW IS FOR COMPLIANCE WITH THE DESIGN INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD DIMENSIONS, QUANTITIES AND COORDINATION WITH OTHER TRADES. NO RESPONSIBILITY IS ASSUMED BY THE ARCHITECT IN REVIEW OF THIS SUBMITTAL.

Reviewed for architectural layout only.
Final location of docks and man doors to
be verified based on tenant layout needs

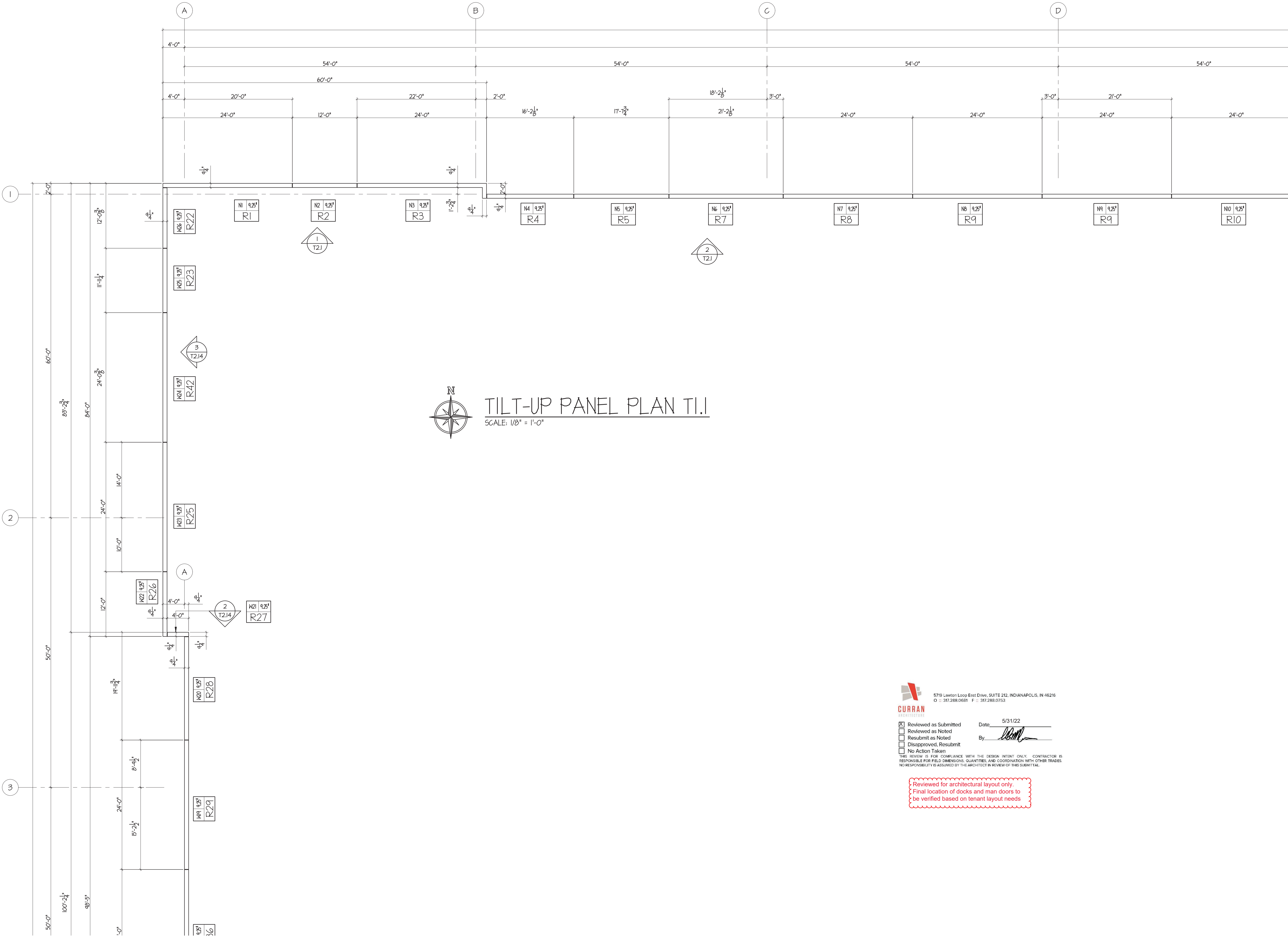
Date 5/31/22

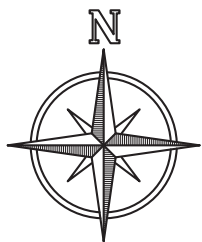
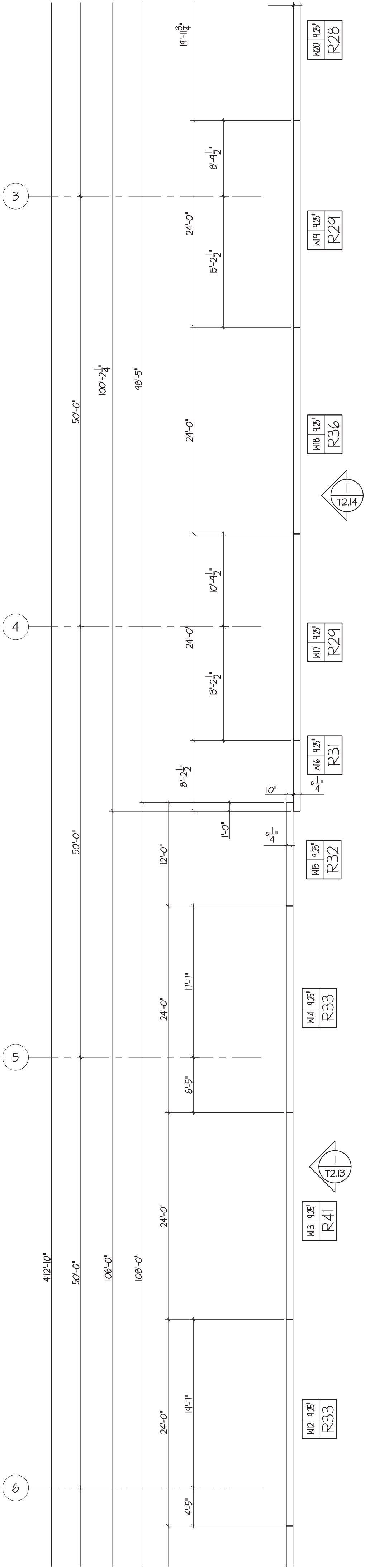
By



TILT-UP PANEL PLAN T1.1

SCALE: 1/8" = 1'-0"





TILT-UP PANEL PLAN T1.2
SCALE: 1/8" = 1'-0"

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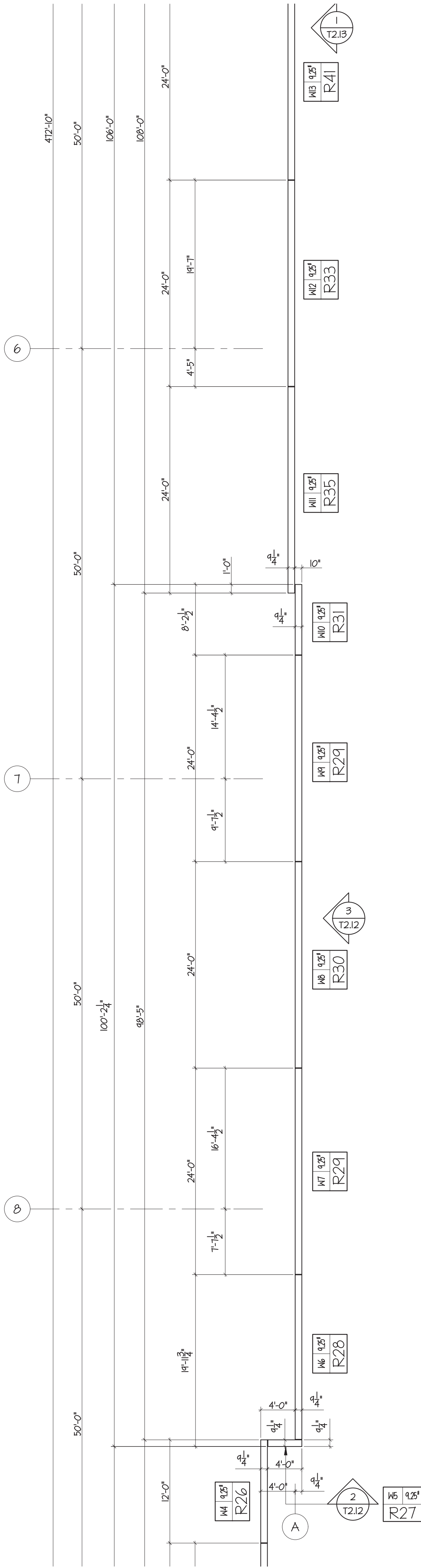
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T1.2

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TILT-UP PANEL PLAN T1.3
SCALE: 1/8" = 1'-0"

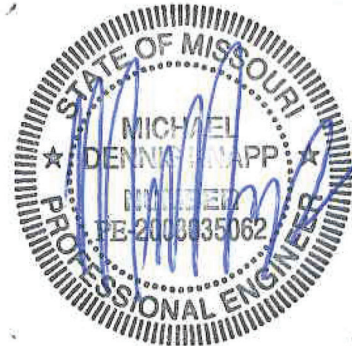
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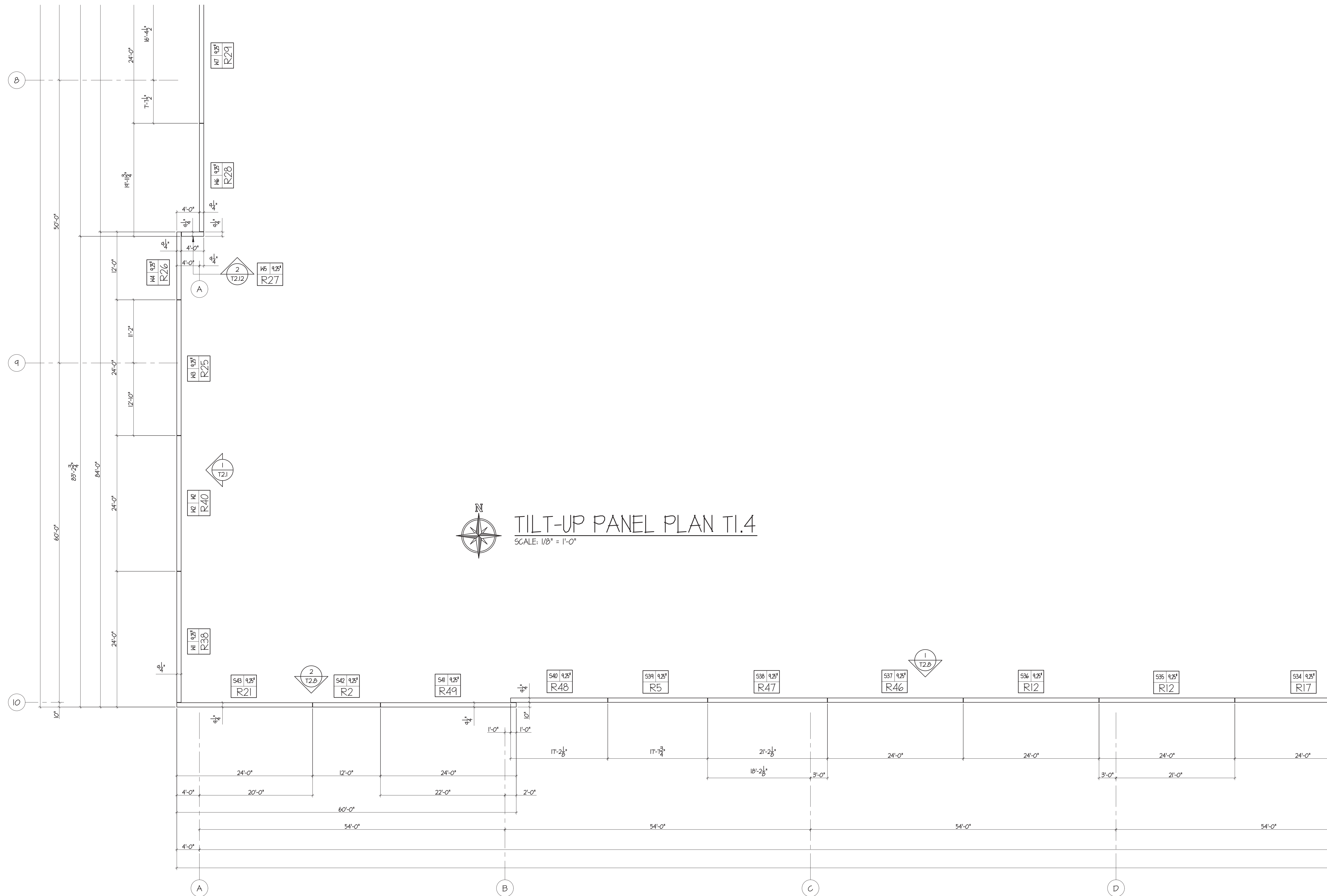
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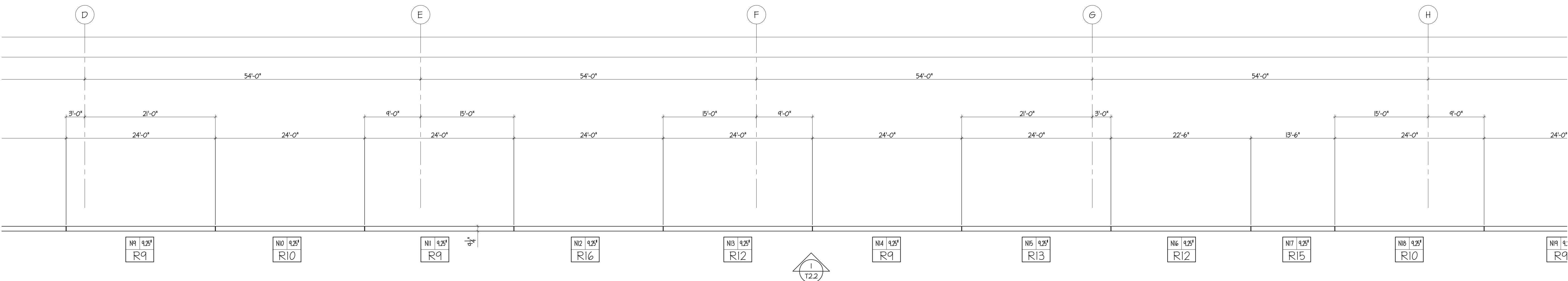
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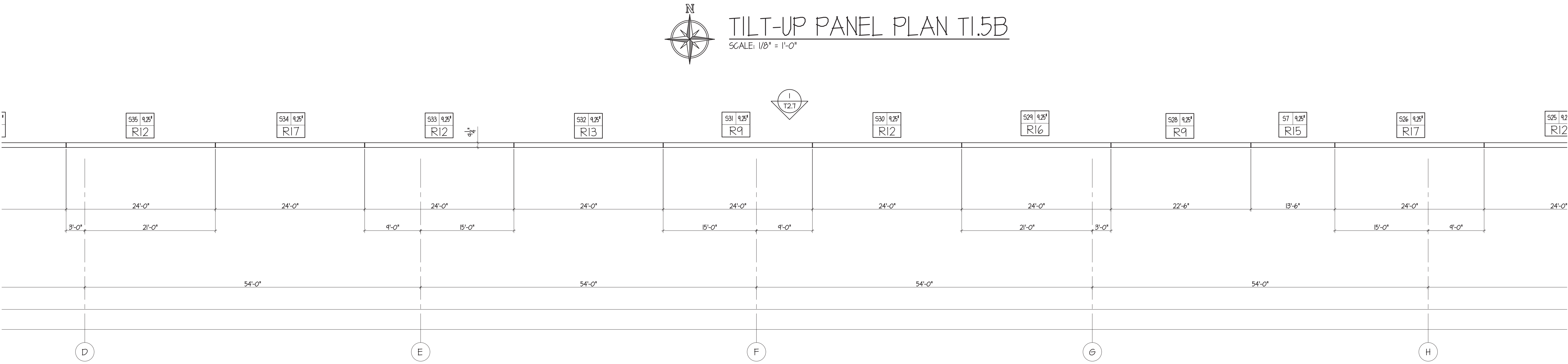
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TILT-UP PANEL PLAN TI.5A
SCALE: 1/8" = 1'-0"



TILT-UP PANEL PLAN TI.5B
SCALE: 1/8" = 1'-0"



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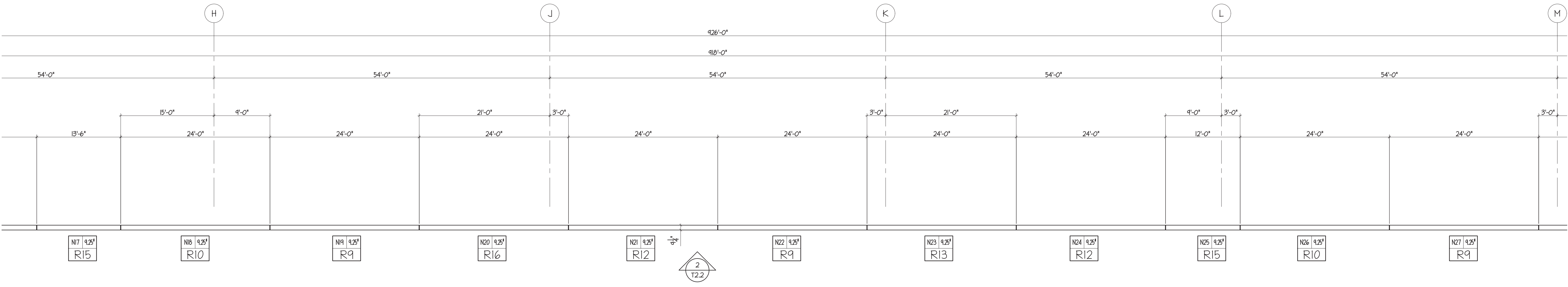
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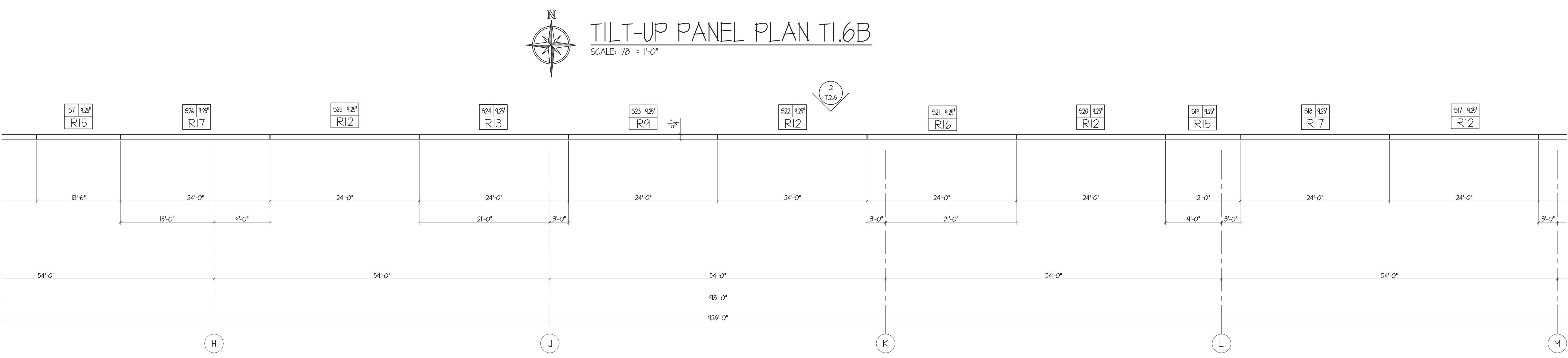
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T1.5

FOR REVIEW AND APPROVAL 2022-05-16



TILT-UP PANEL PLAN TI.6A
SCALE: 1/8" = 1'-0"



TILT-UP PANEL PLAN TI.6B
SCALE: 1/8" = 1'-0"



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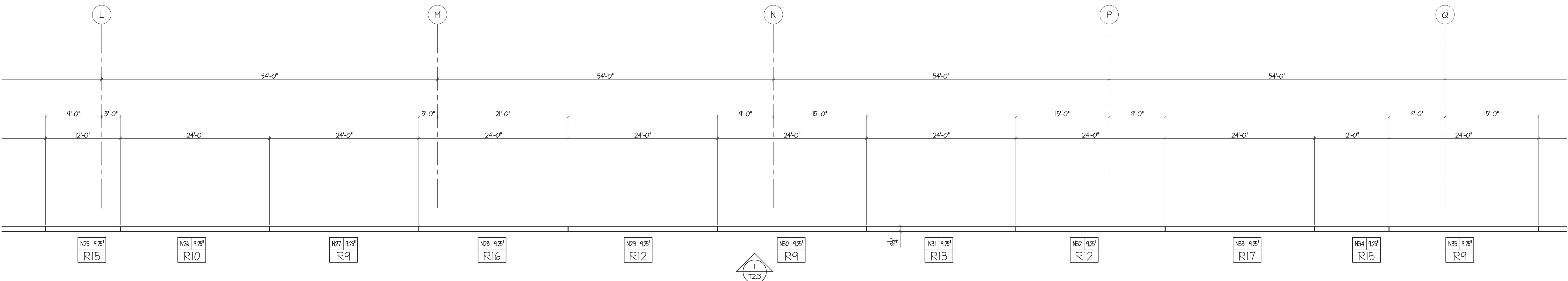
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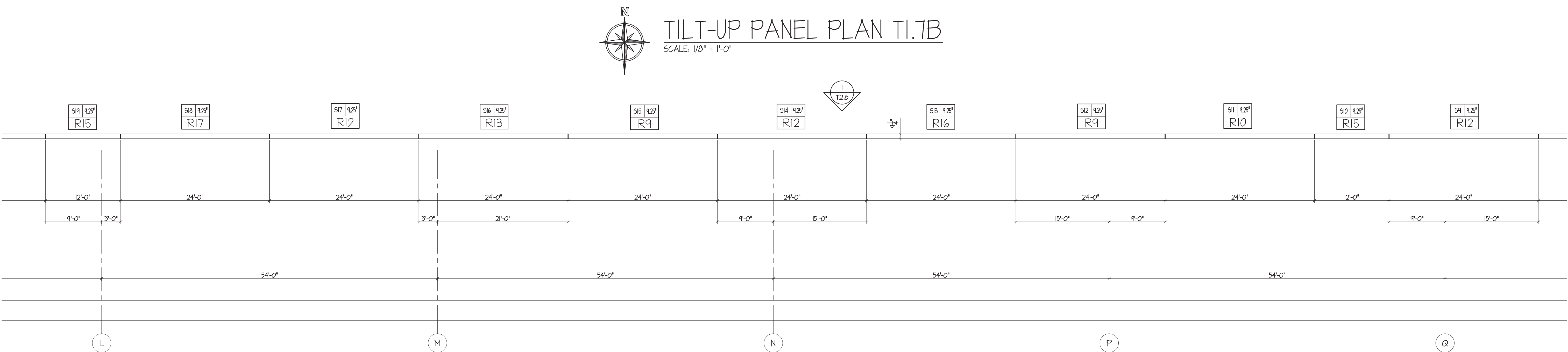
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T1.6

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TILT-UP PANEL PLAN TI.7A
SCALE: 1/8" = 1'-0"



TILT-UP PANEL PLAN TI.7B
SCALE: 1/8" = 1'-0"



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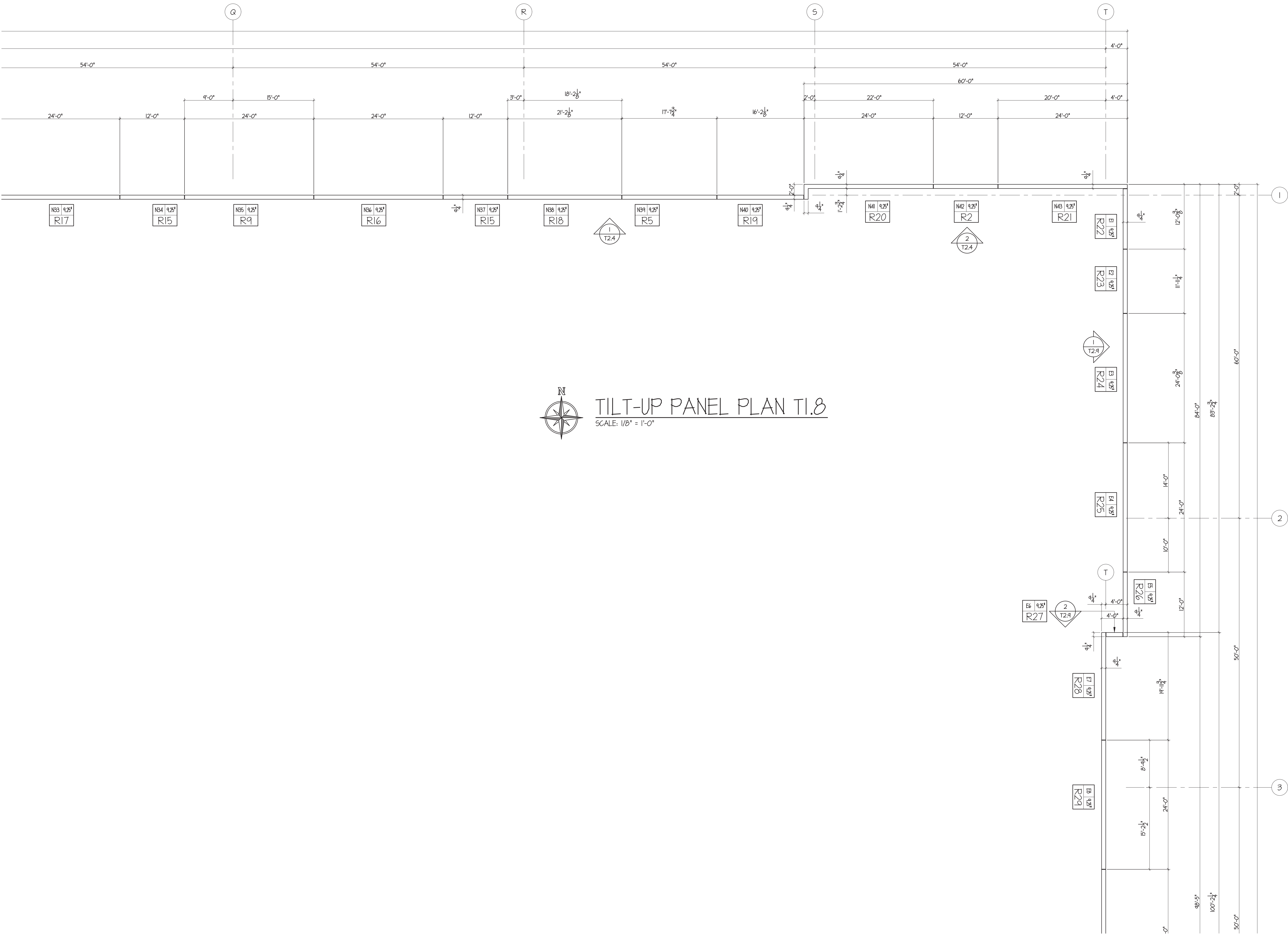
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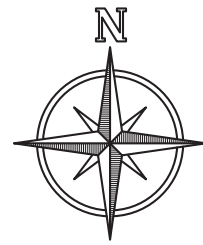
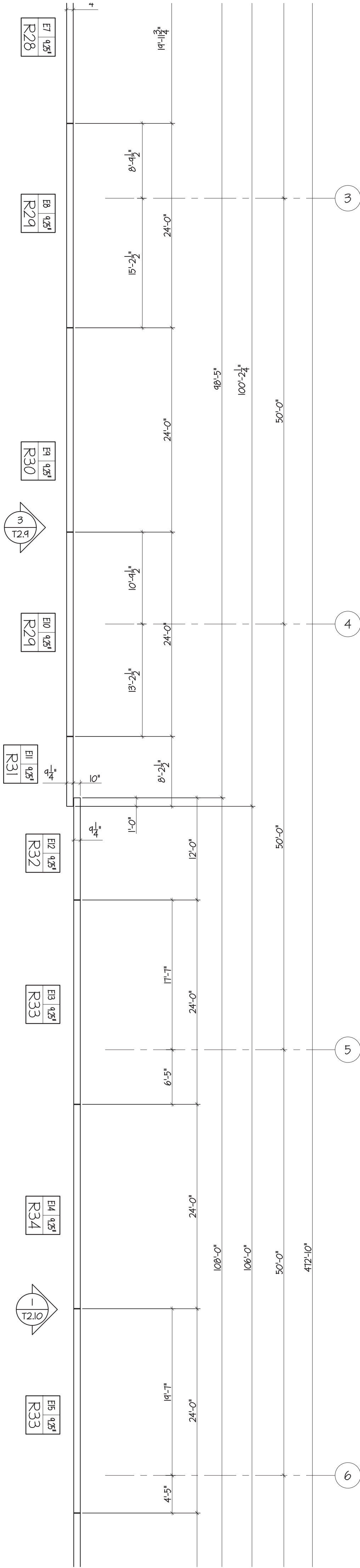
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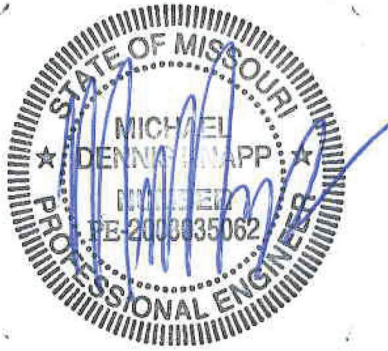
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TILT-UP PANEL PLAN T1.9
SCALE: 1/8" = 1'-0"



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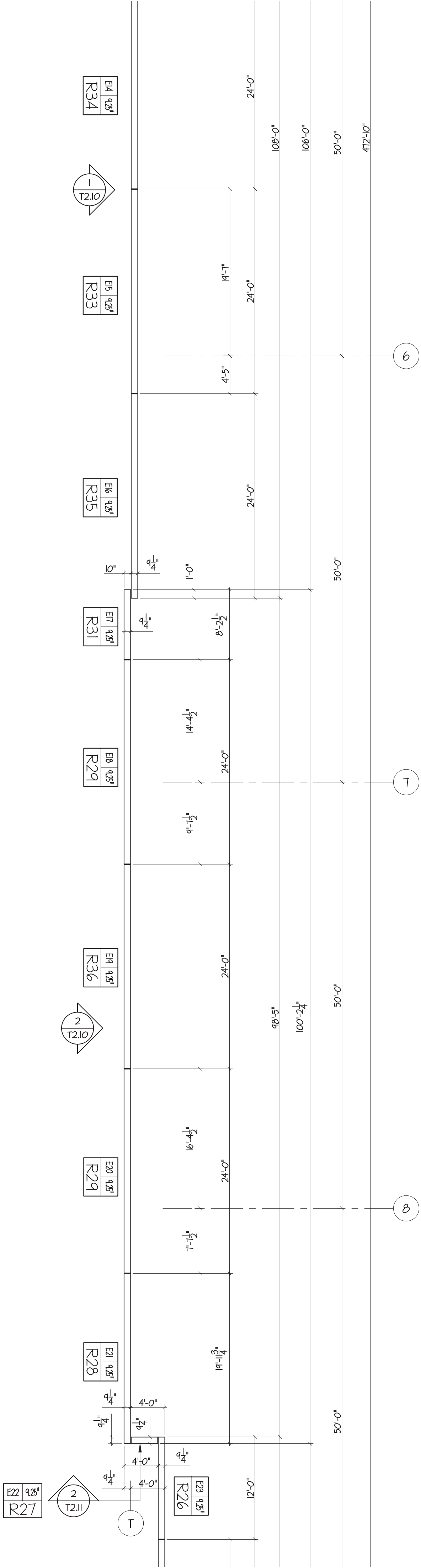
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TILT-UP PANEL PLAN T1.10
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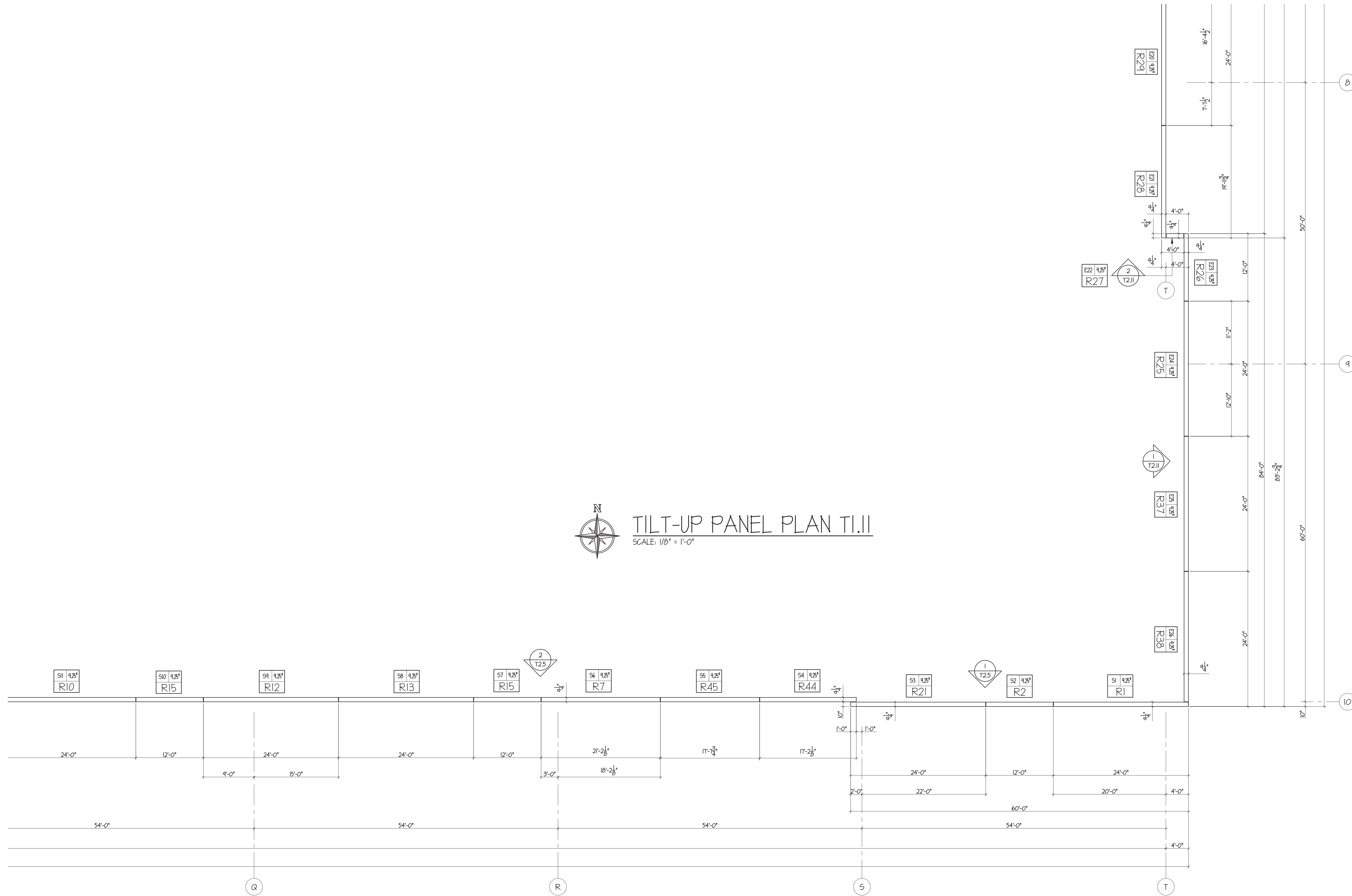
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T1.11





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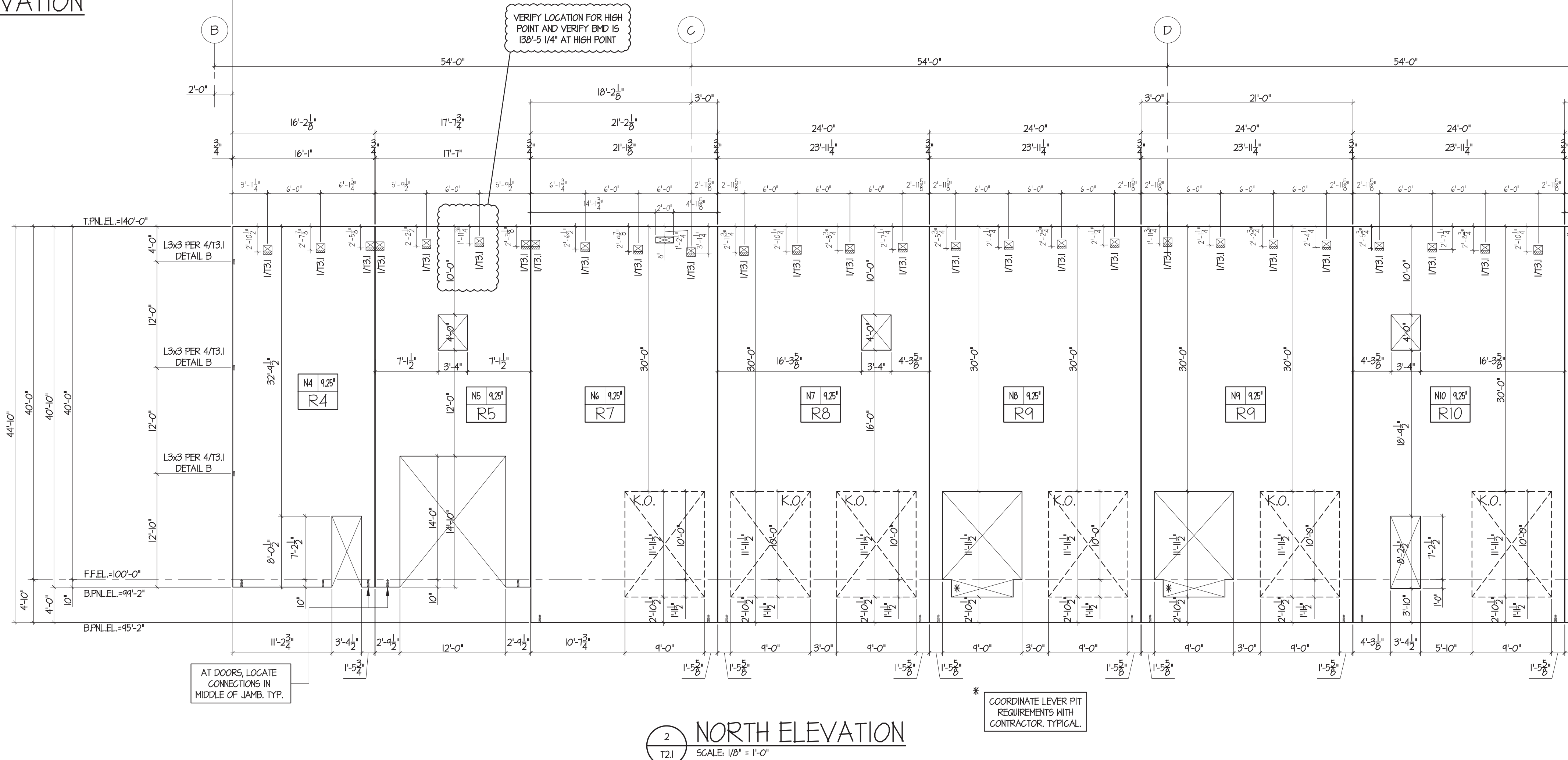
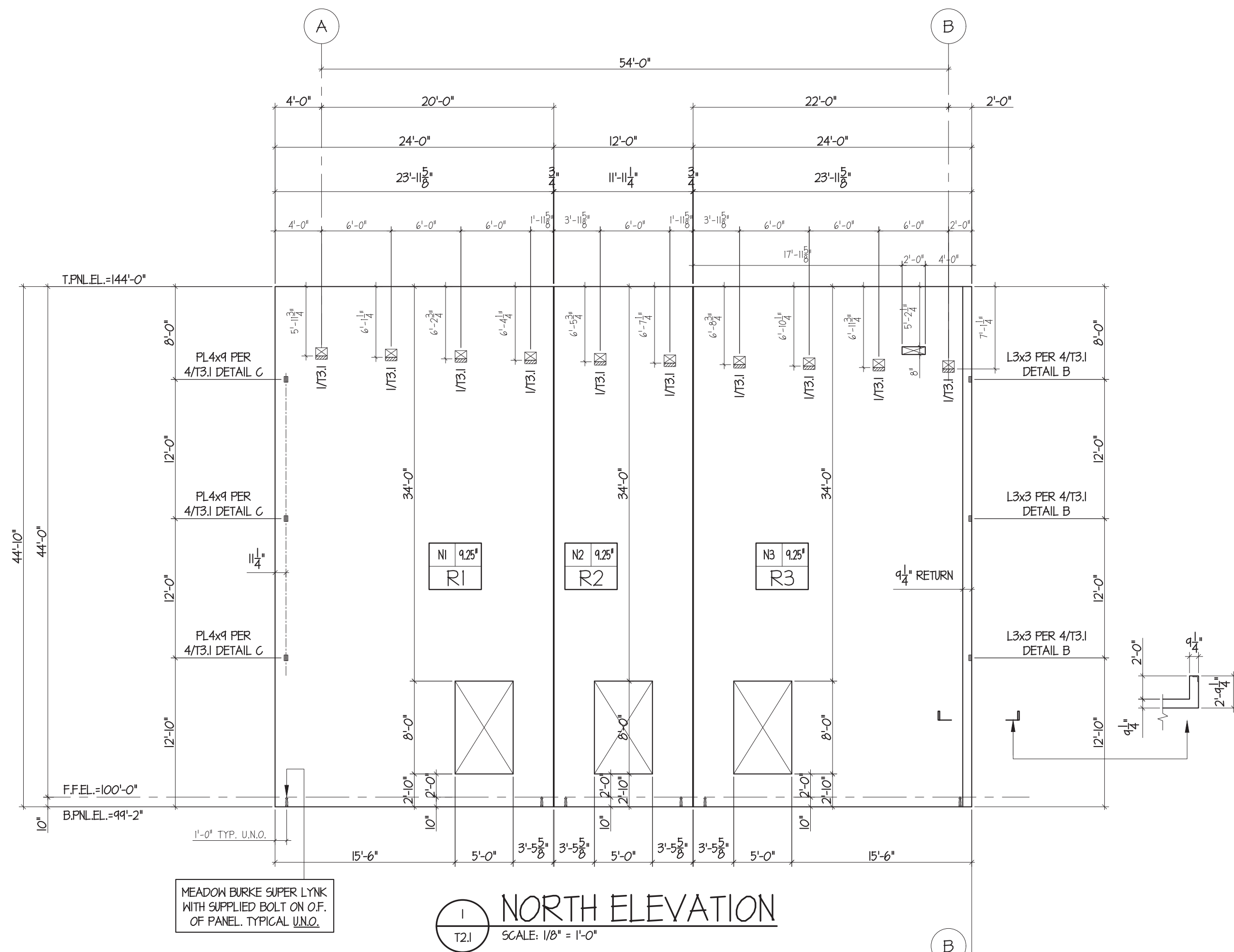
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* COORDINATE LEVER PIT REQUIREMENTS WITH CONTRACTOR, TYPICAL.



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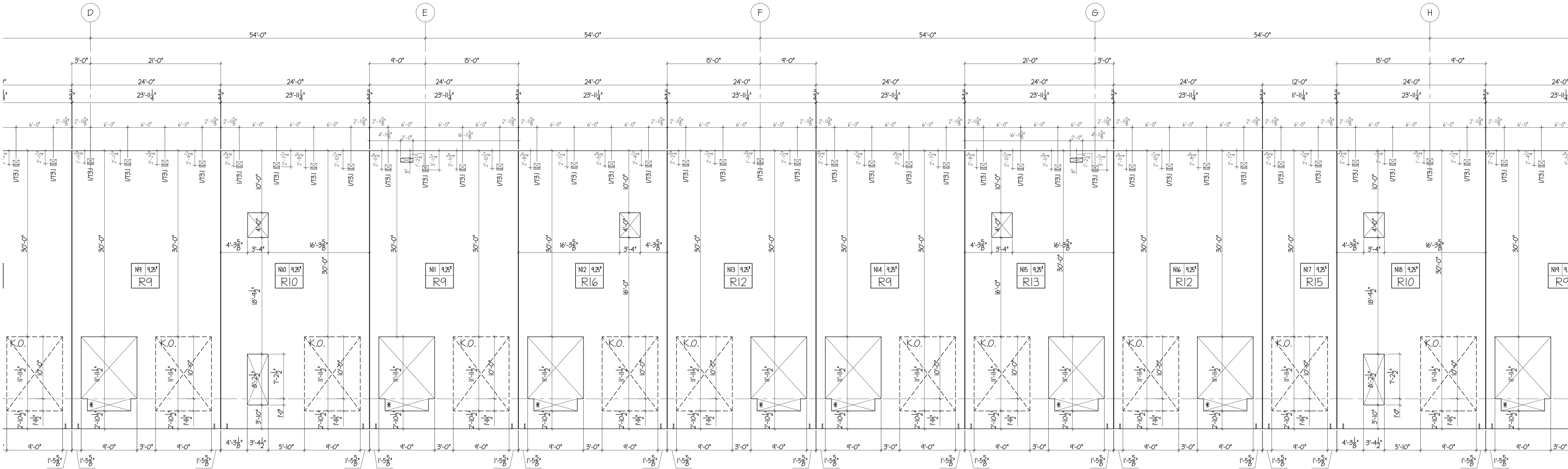
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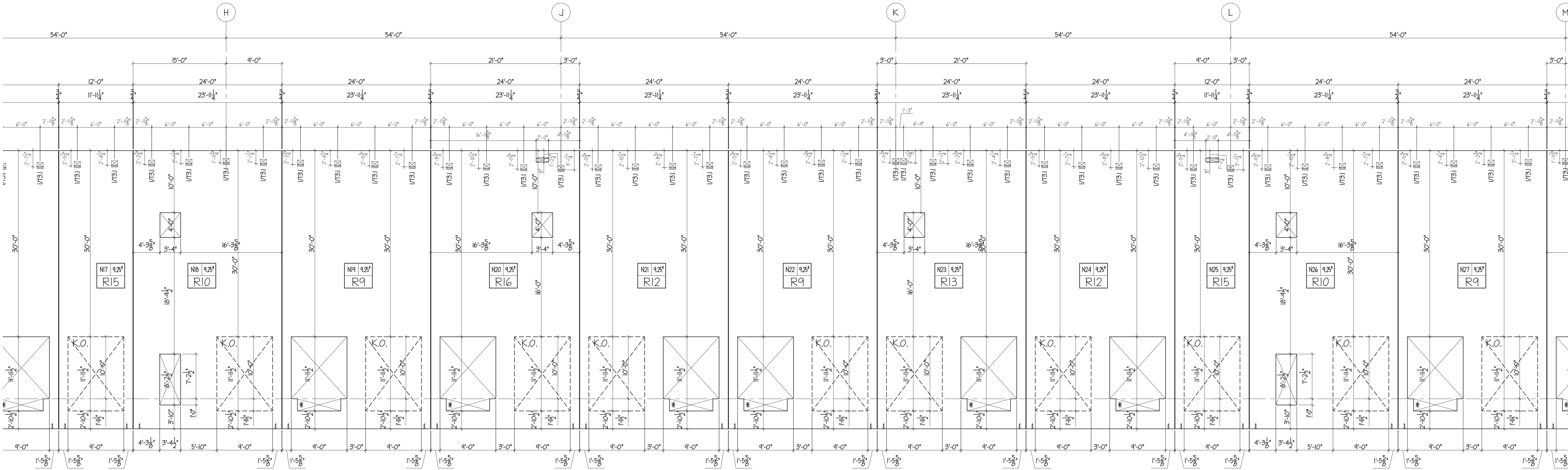
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T2.2

FOR REVIEW AND APPROVAL 2022-05-16



1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

EVER PIT
ITS WITH
TYPICAL



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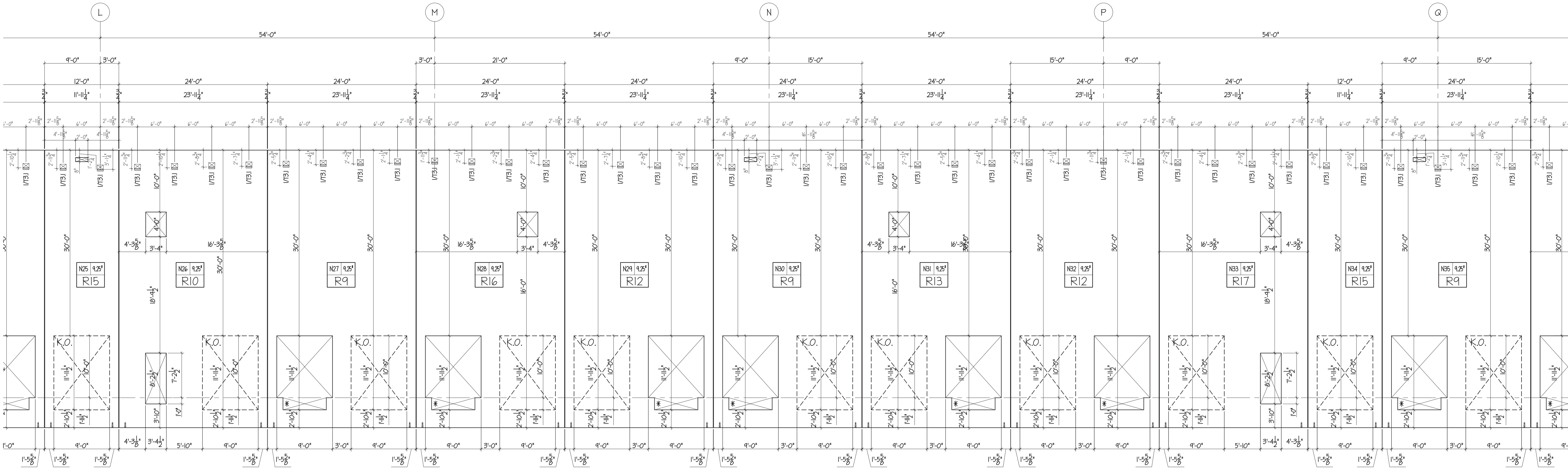
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T2.3

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1 NORTH ELEVATION
12.3 SCALE: 1/8" = 1'-0"



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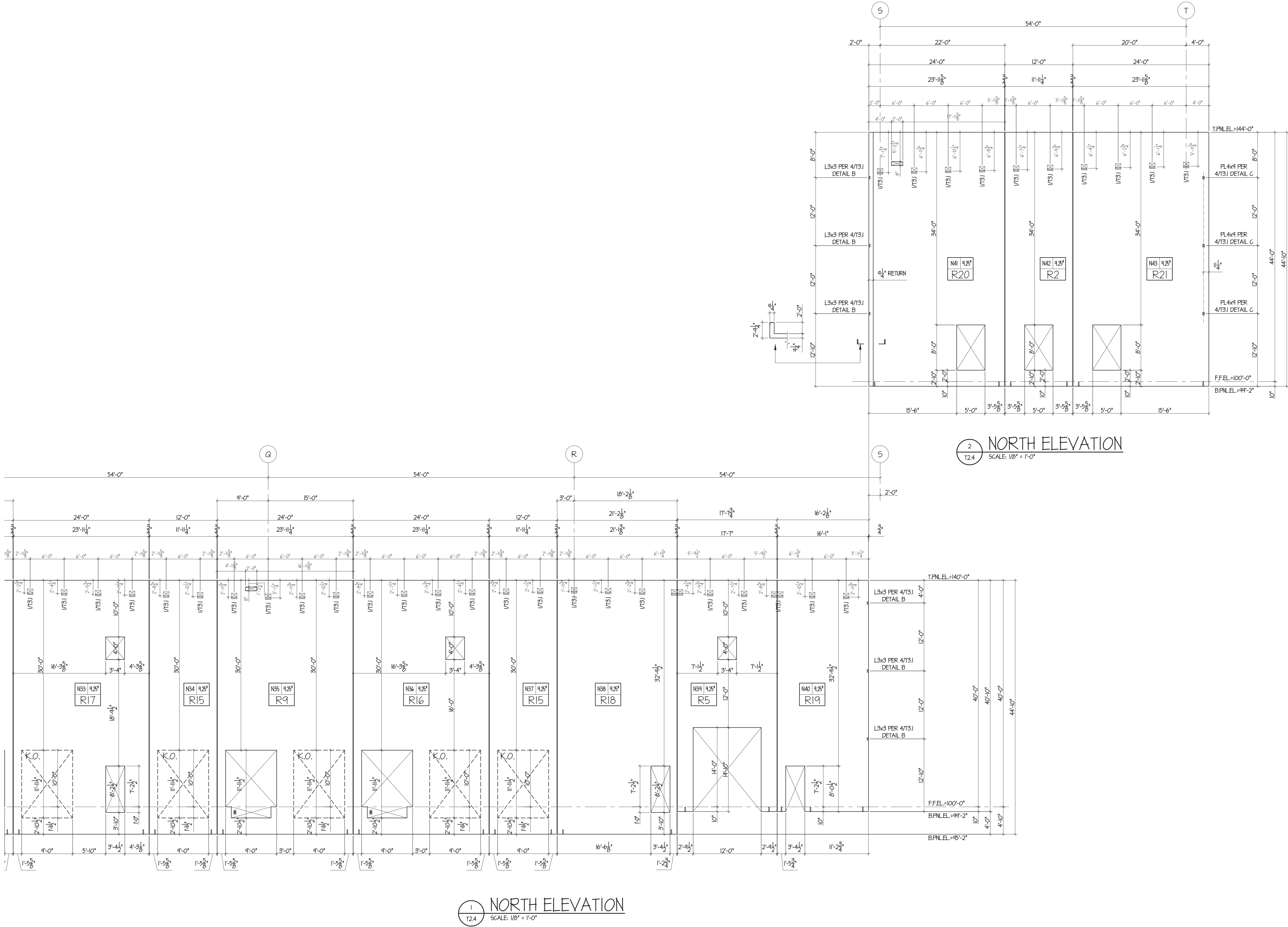
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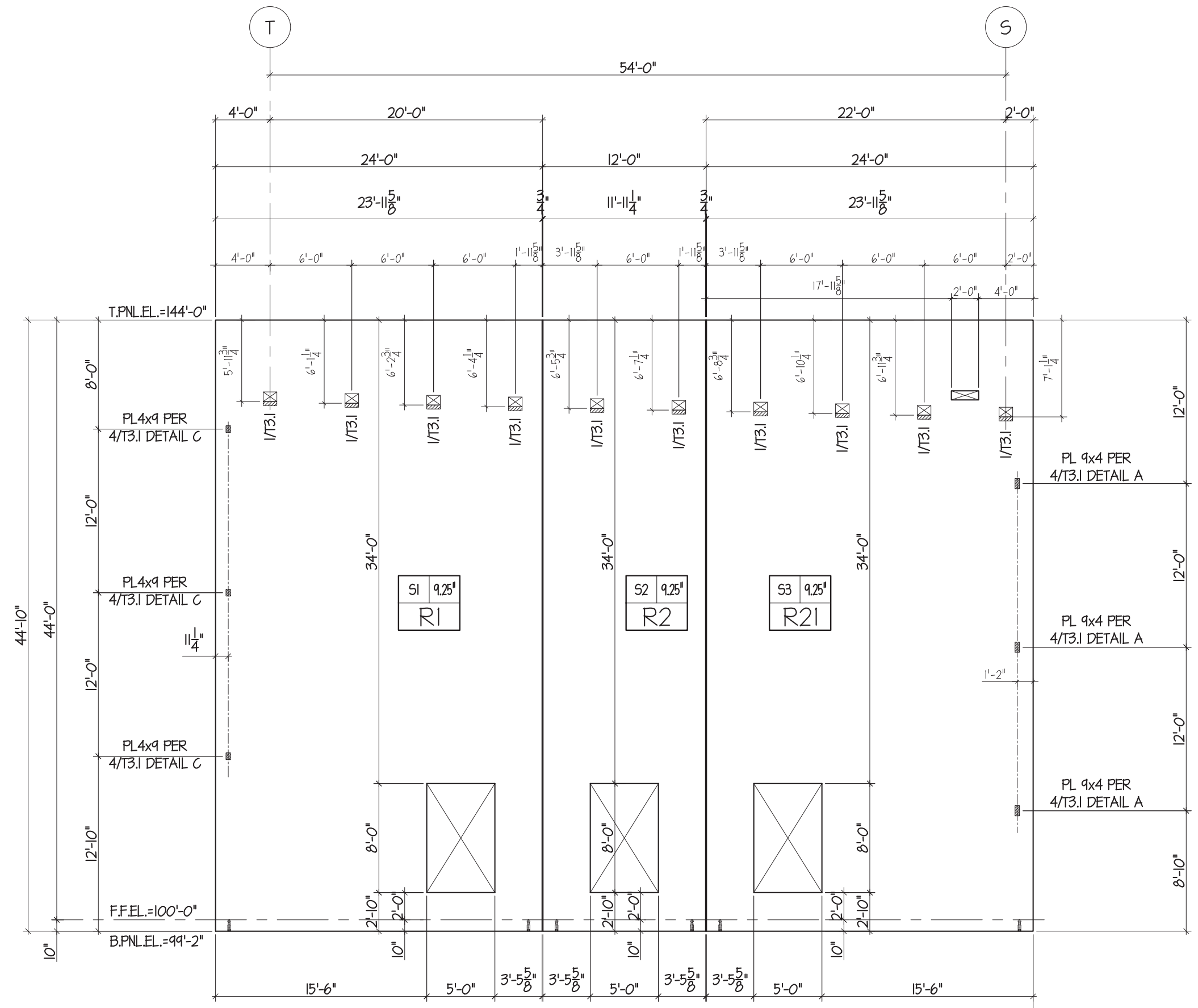
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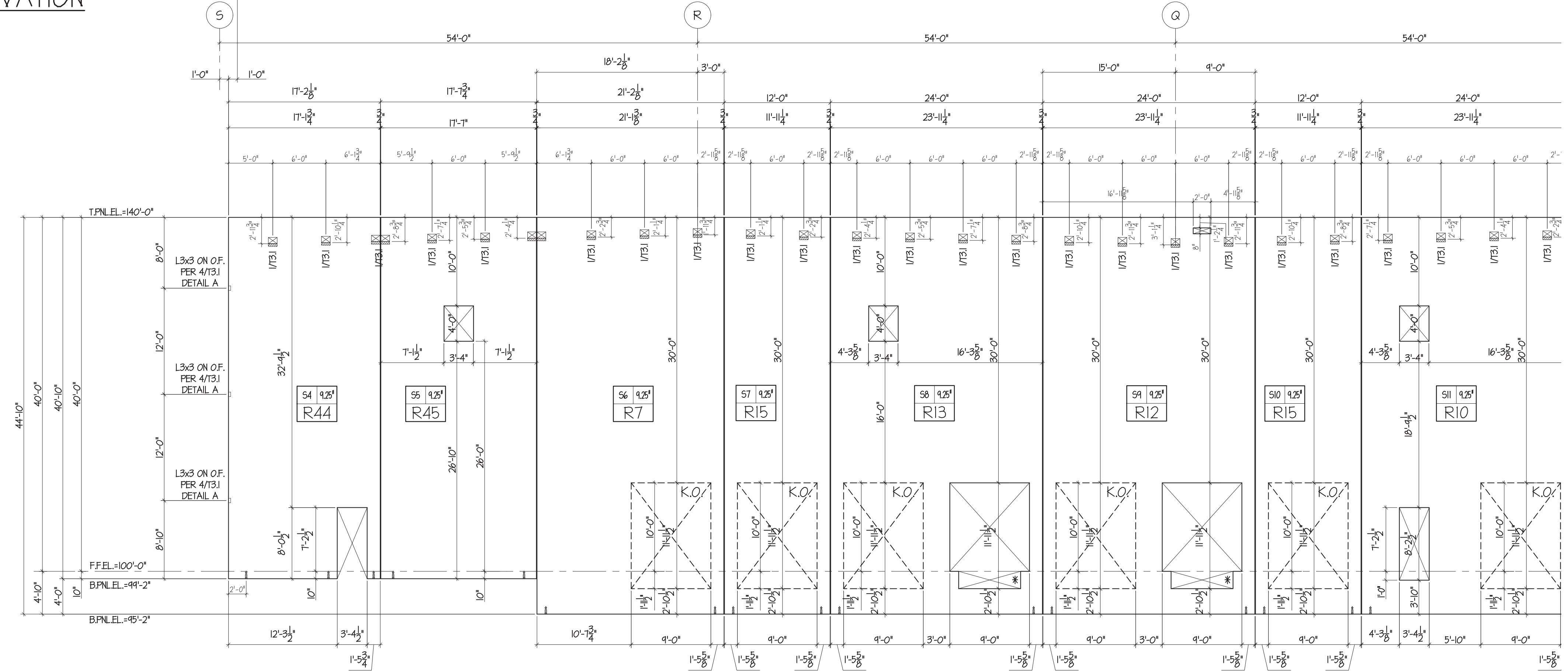
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SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



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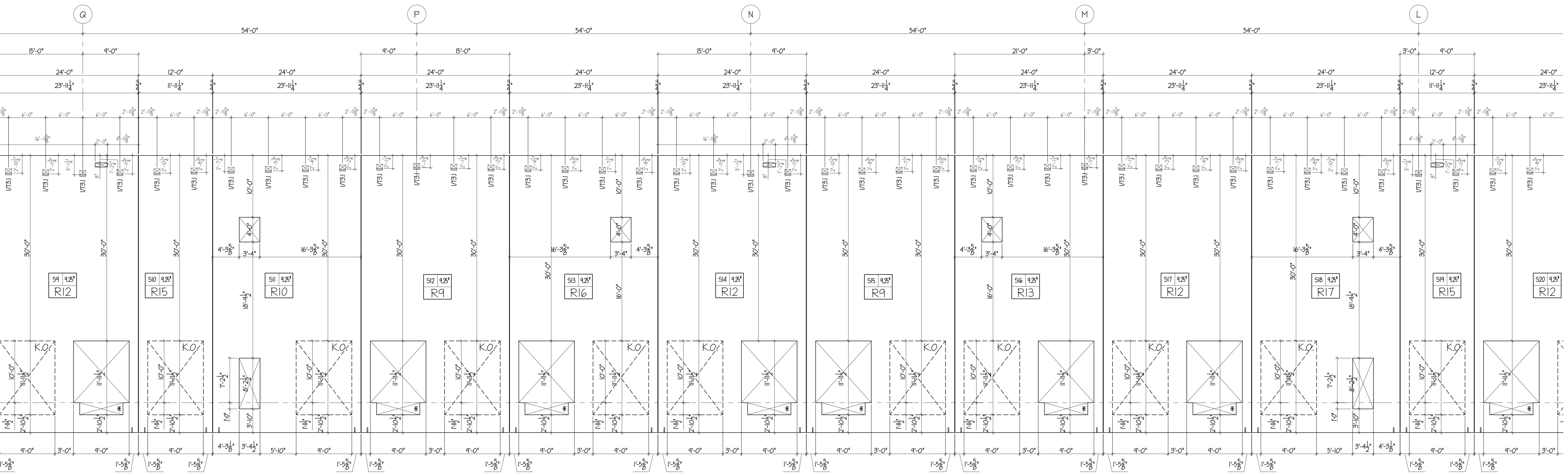
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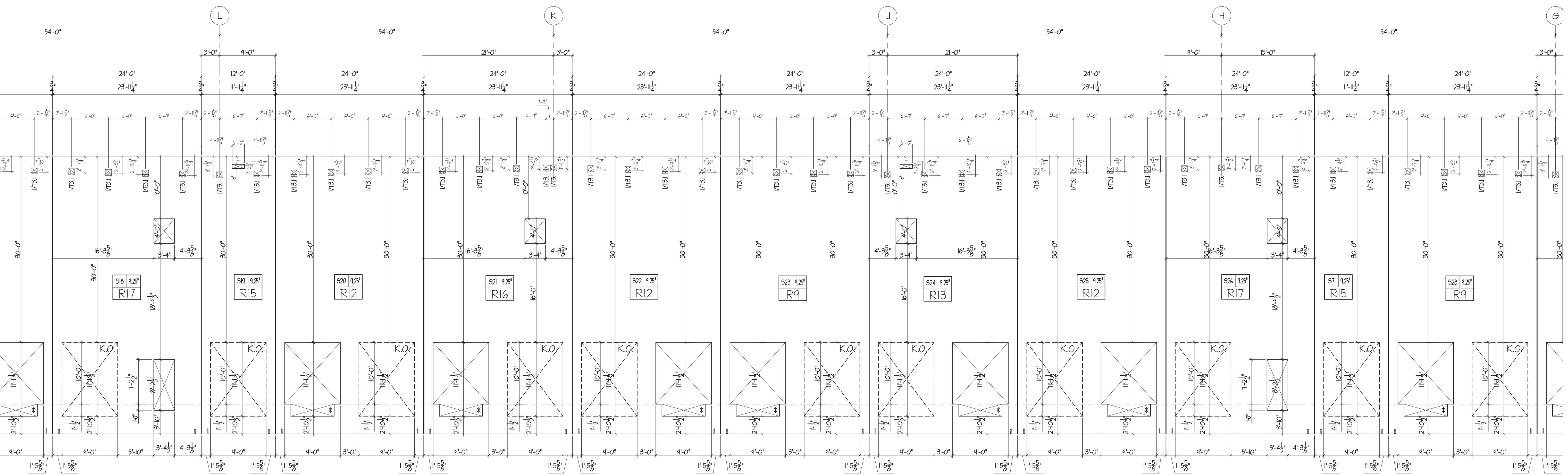
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1 SOUTH ELEVATION
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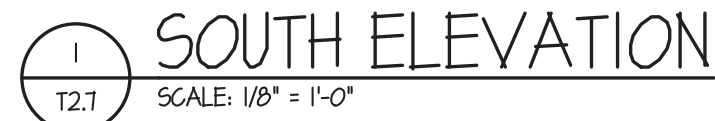


2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

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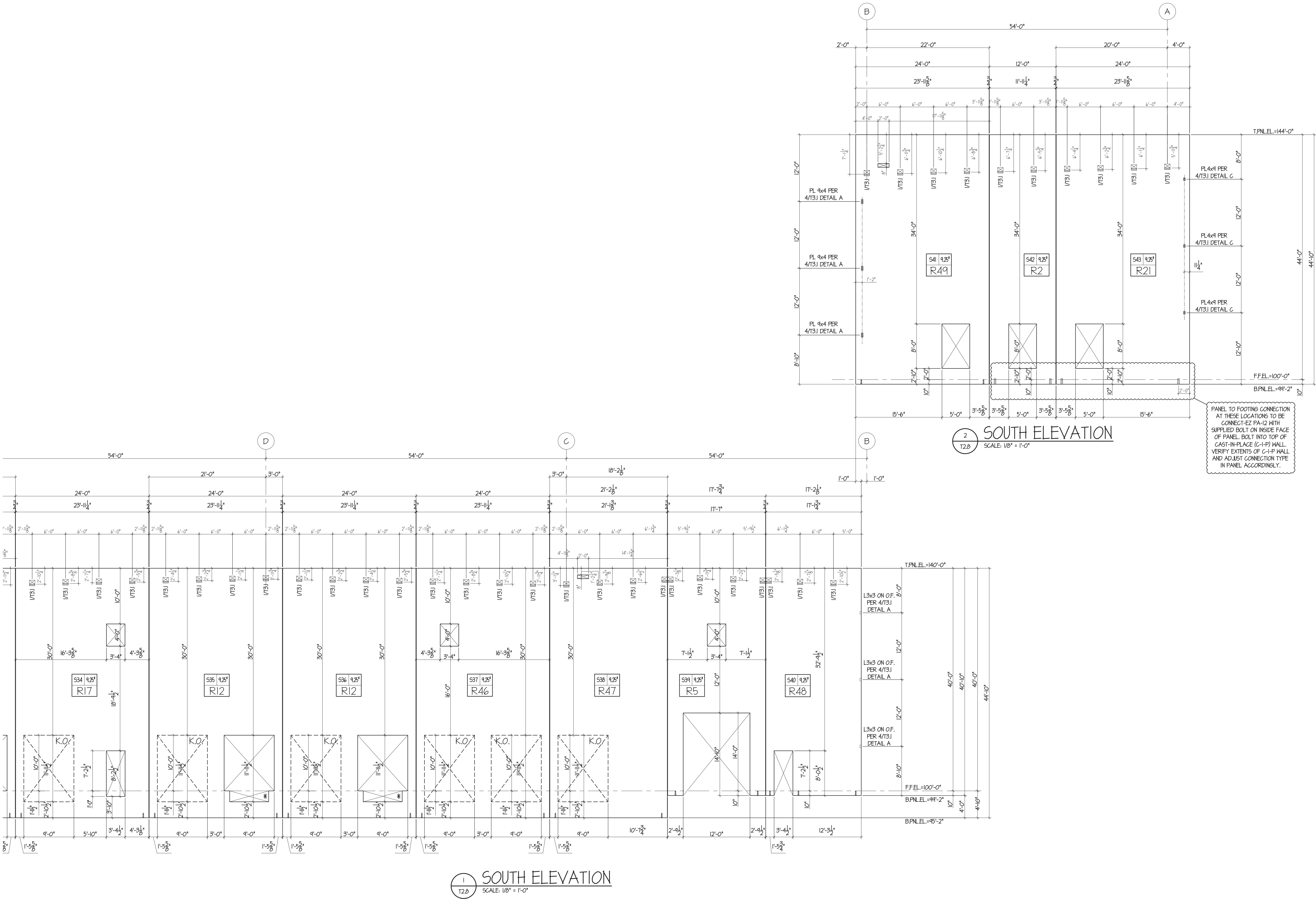
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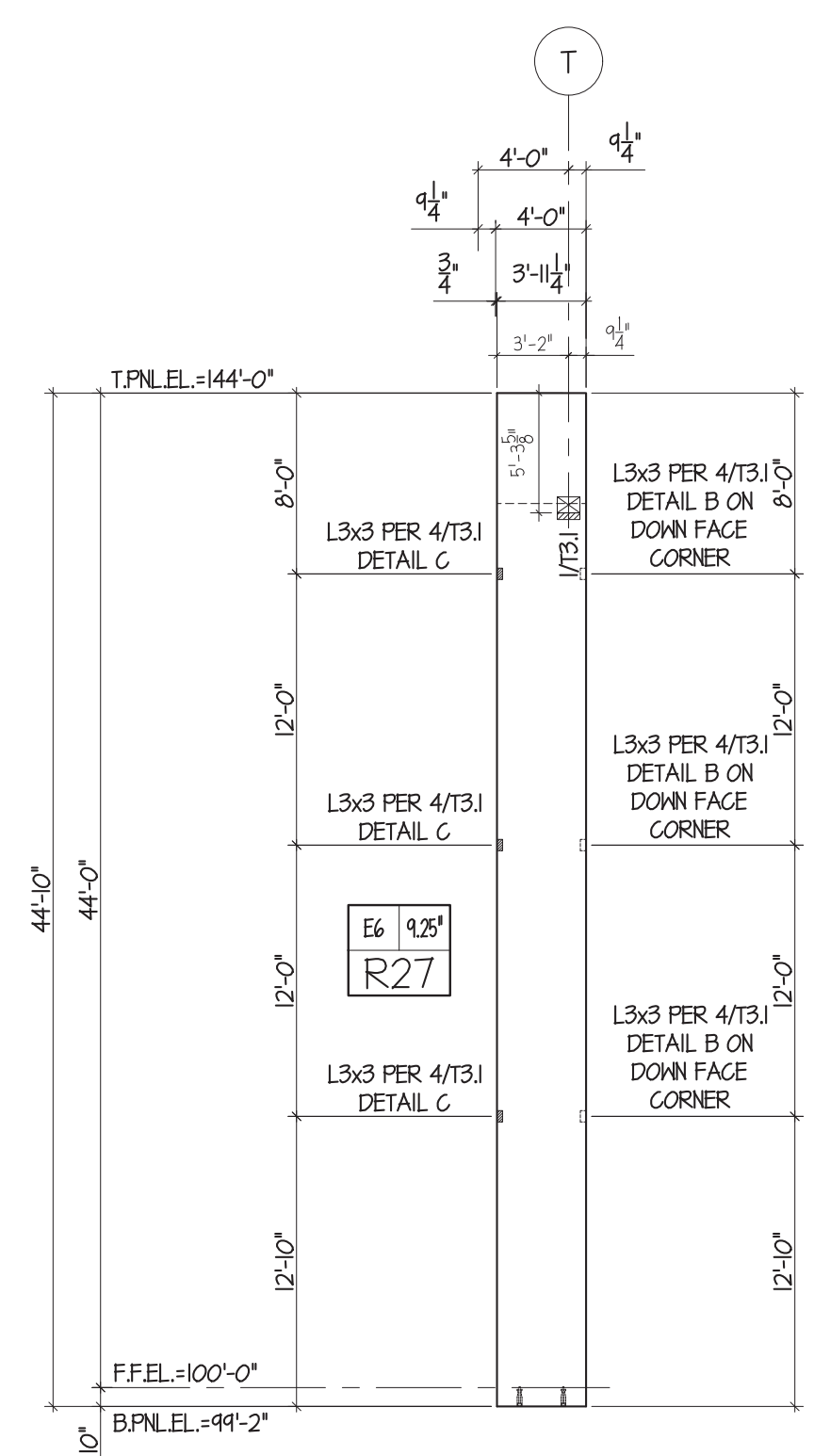
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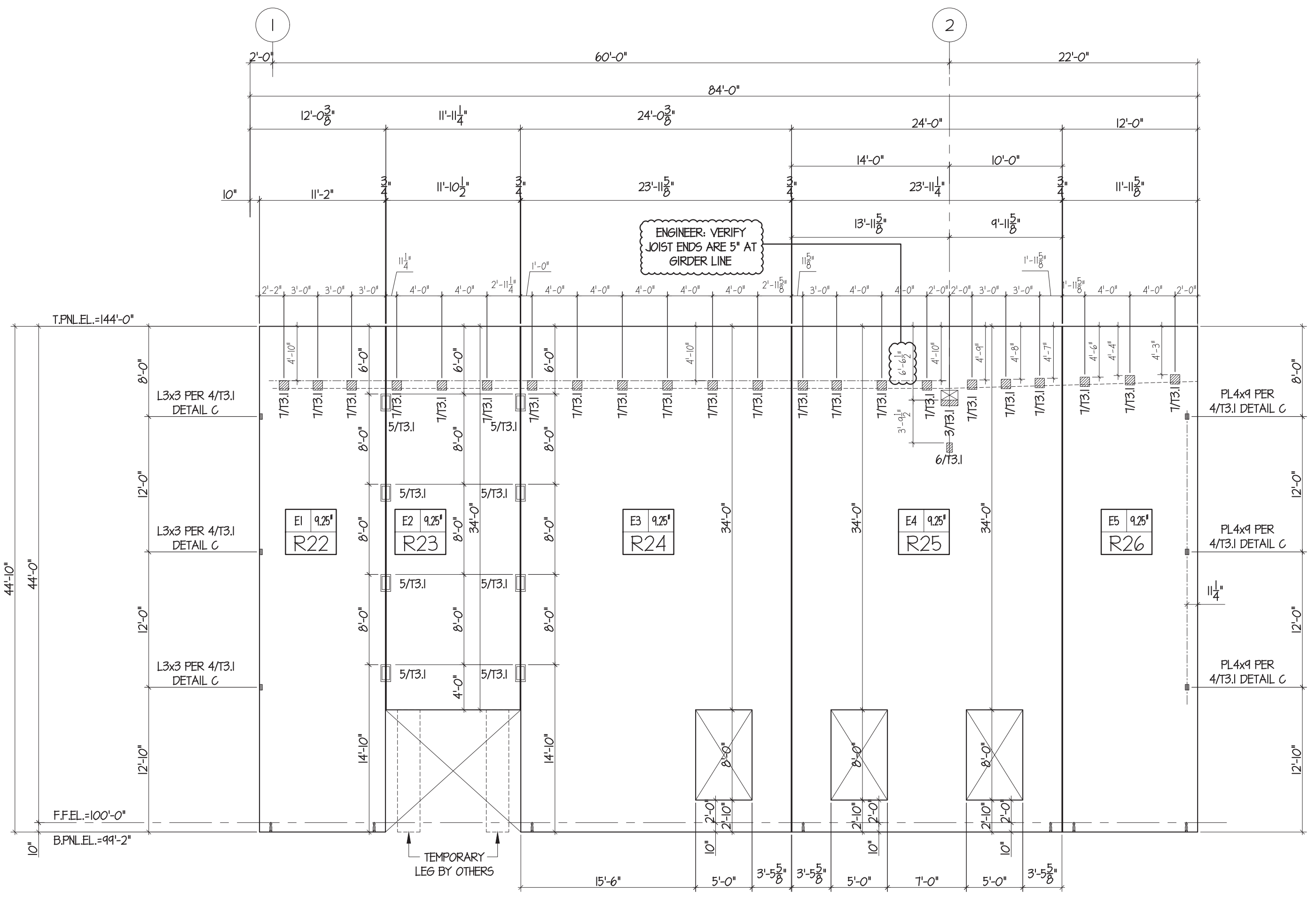
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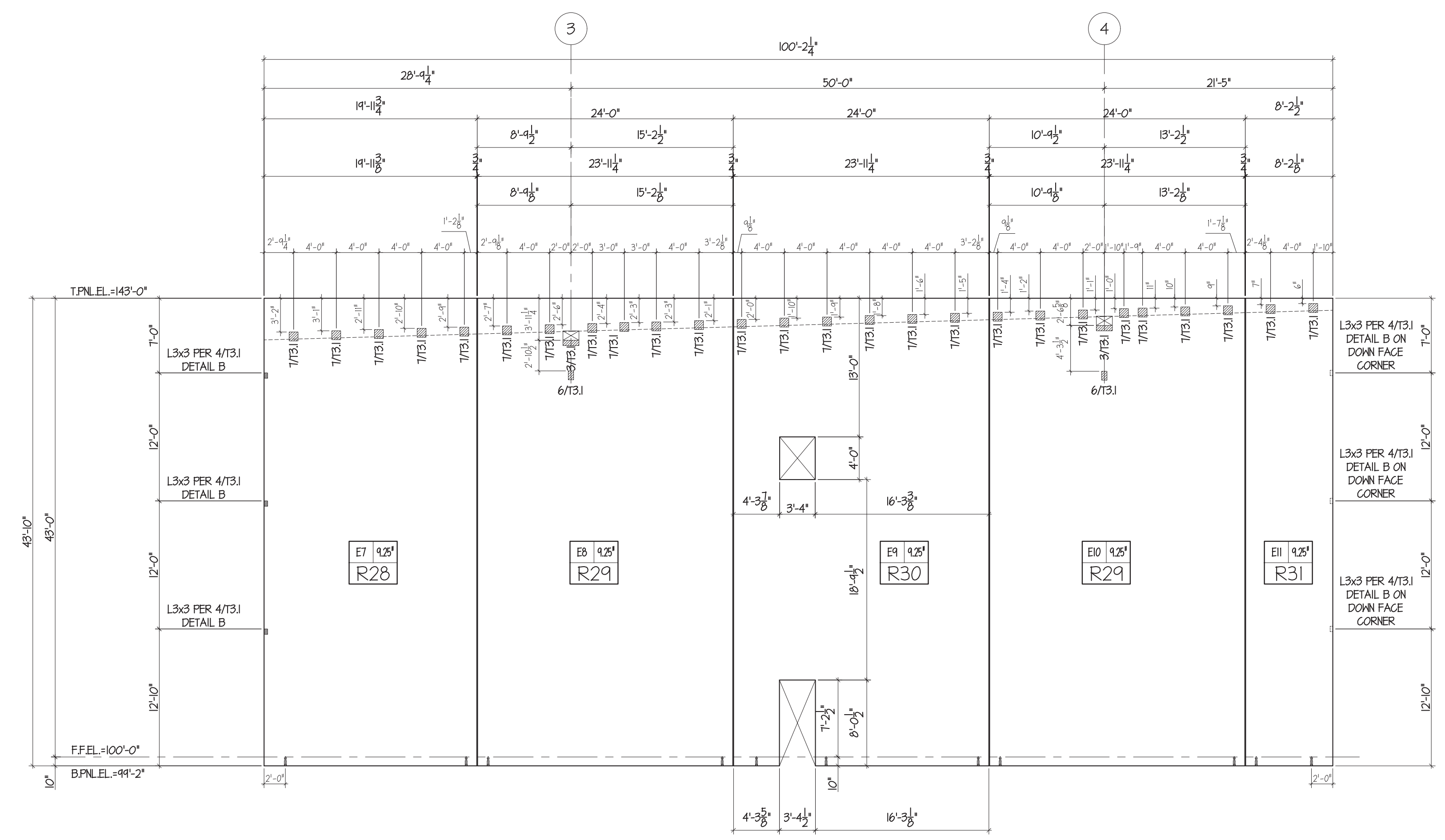
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1 EAST ELEVATION
T2.9 SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
T2.4 SCALE: 1/8" = 1'-0"



3 EAST ELEVATION
T2.9 SCALE: 1/8" = 1'-0"

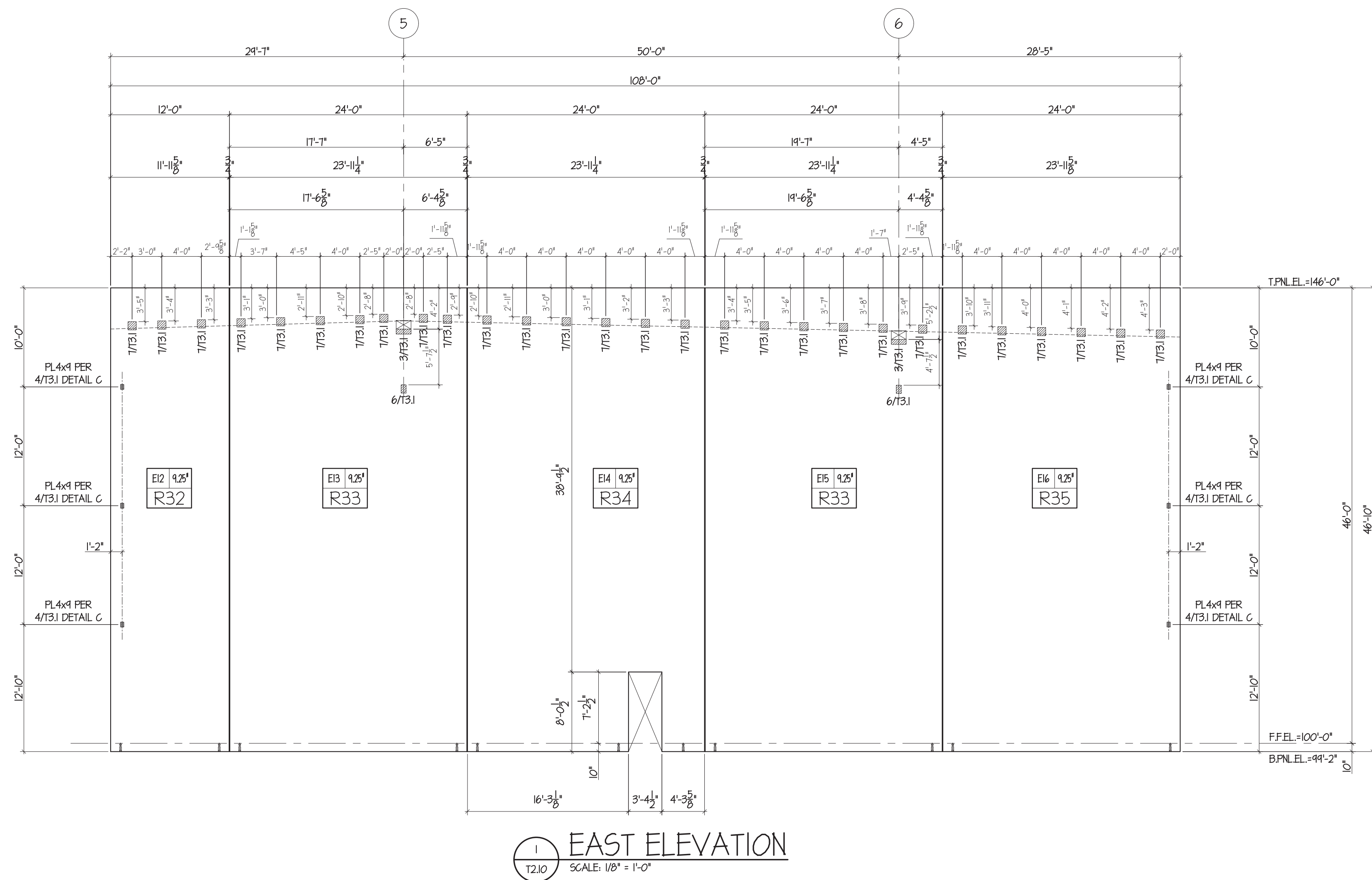
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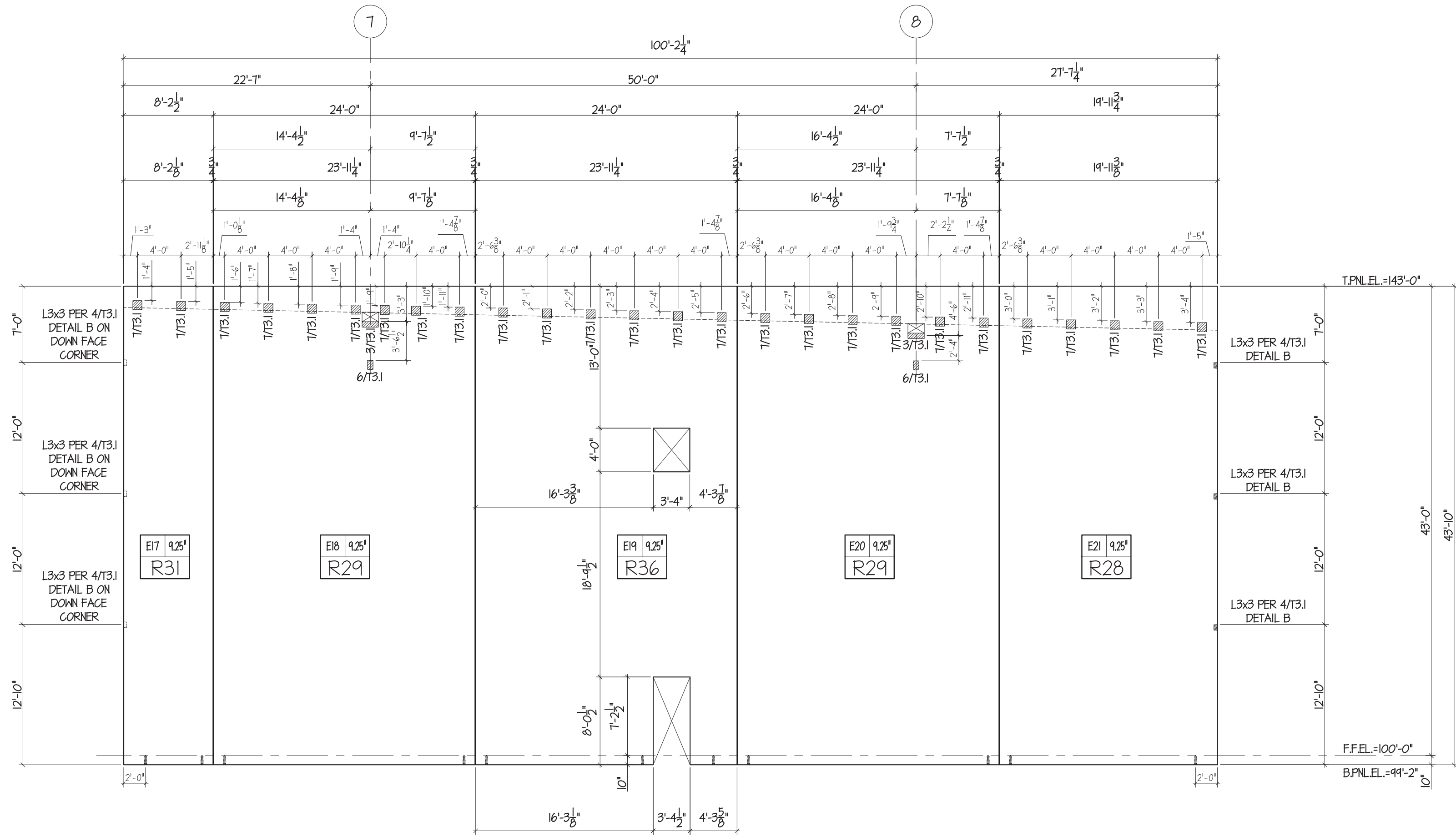
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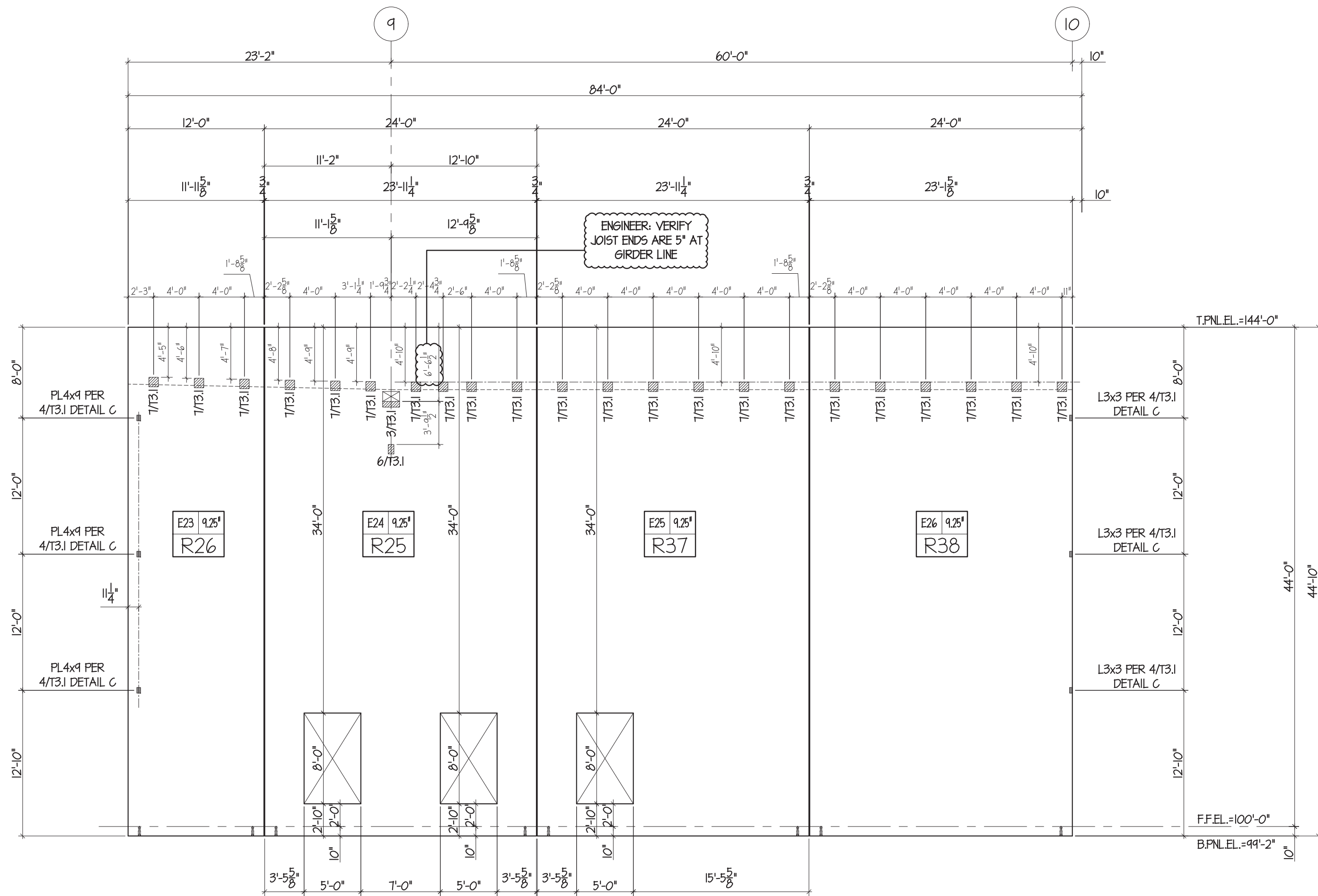
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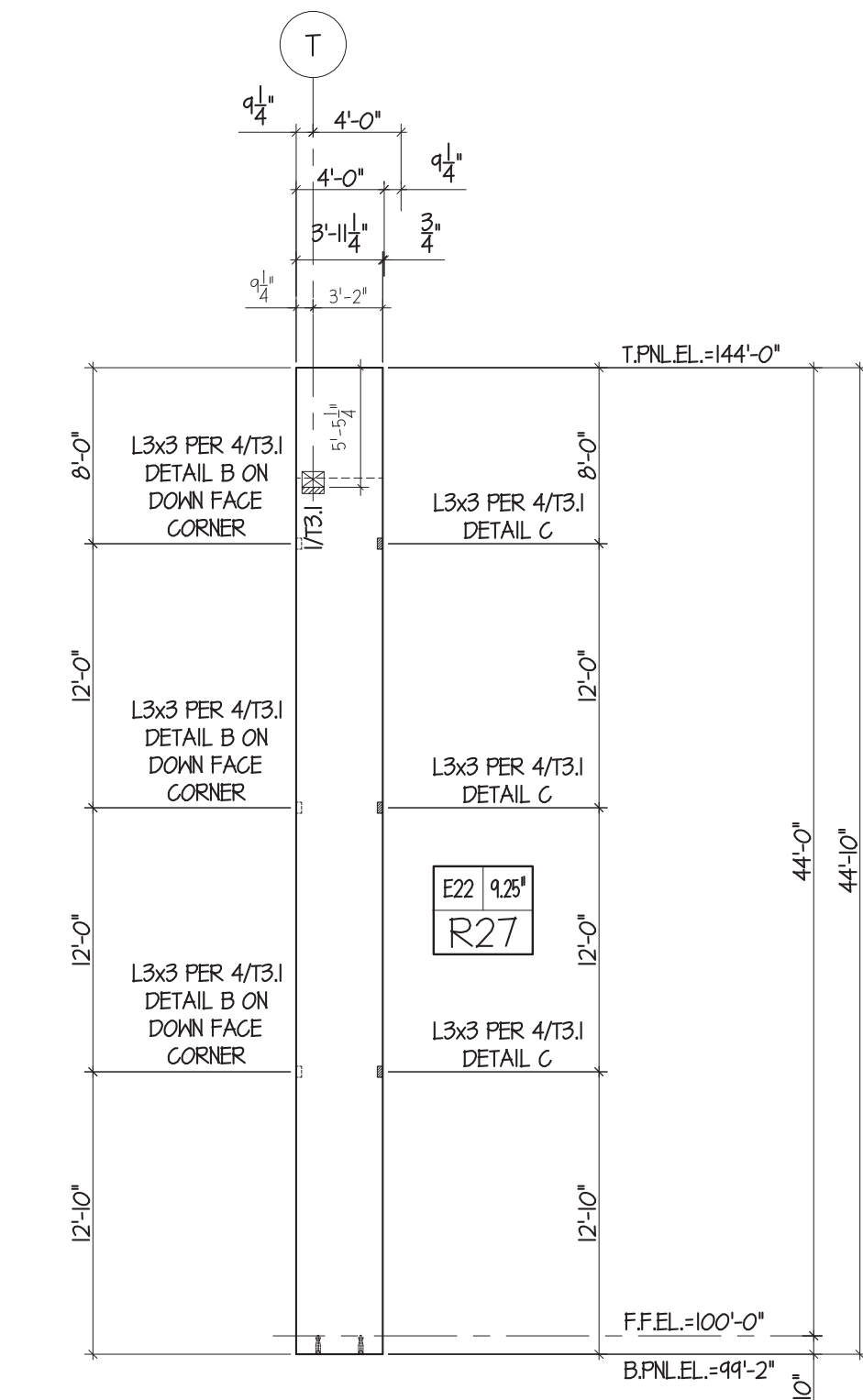
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1 EAST ELEVATION
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2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



3 EAST ELEVATION
SCALE: 1/8" = 1'-0"



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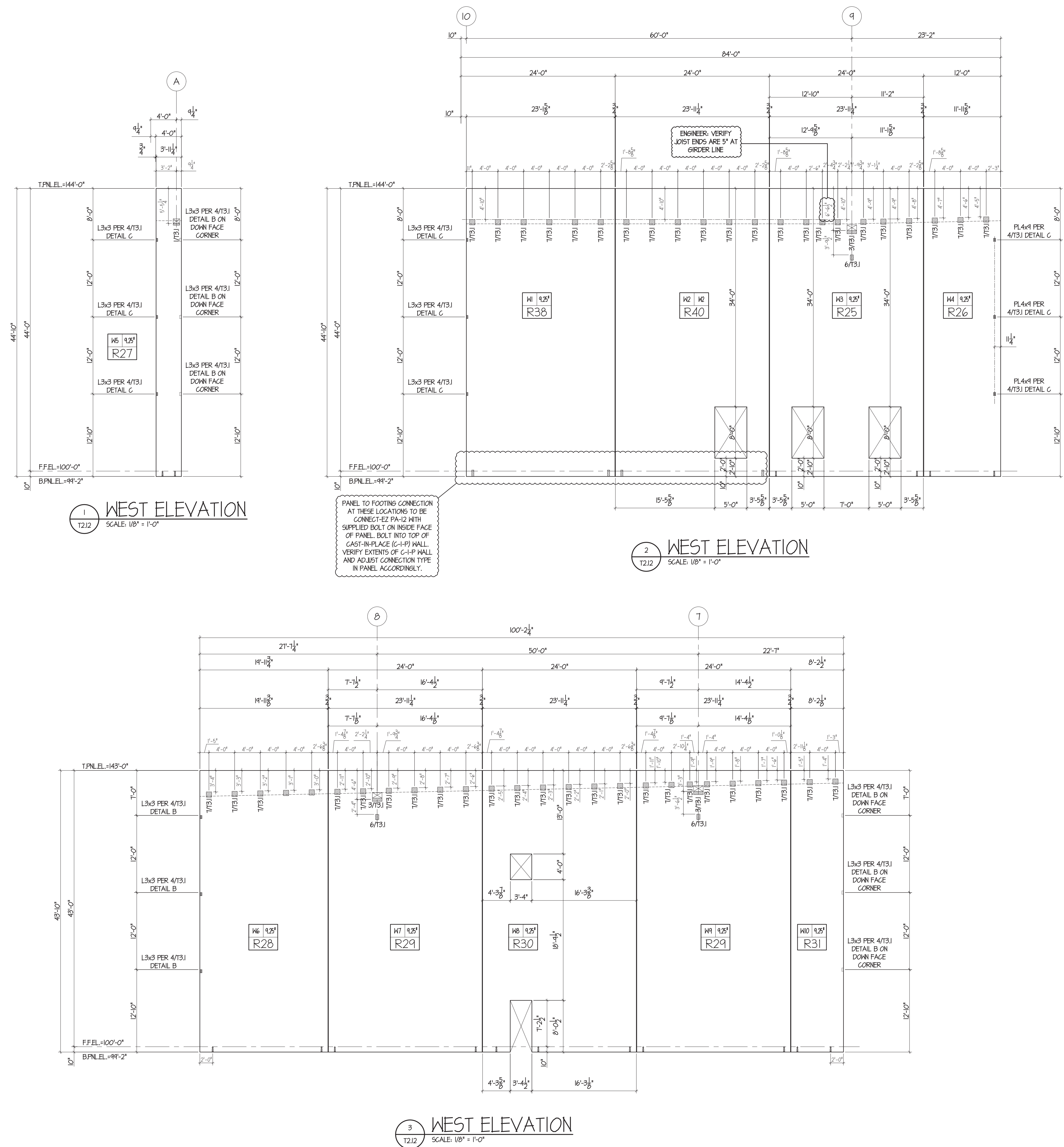
Lee's Summit Logistics
Building A Lot 1
NW Corner of NE Tudor Rd. & Main St.
Lee's Summit, MO 64086

ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16

SHEET NO:

T2.12

FOR REVIEW AND APPROVAL 2022-05-16





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FENIX
Construction Company
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Fax: 314.892.6535

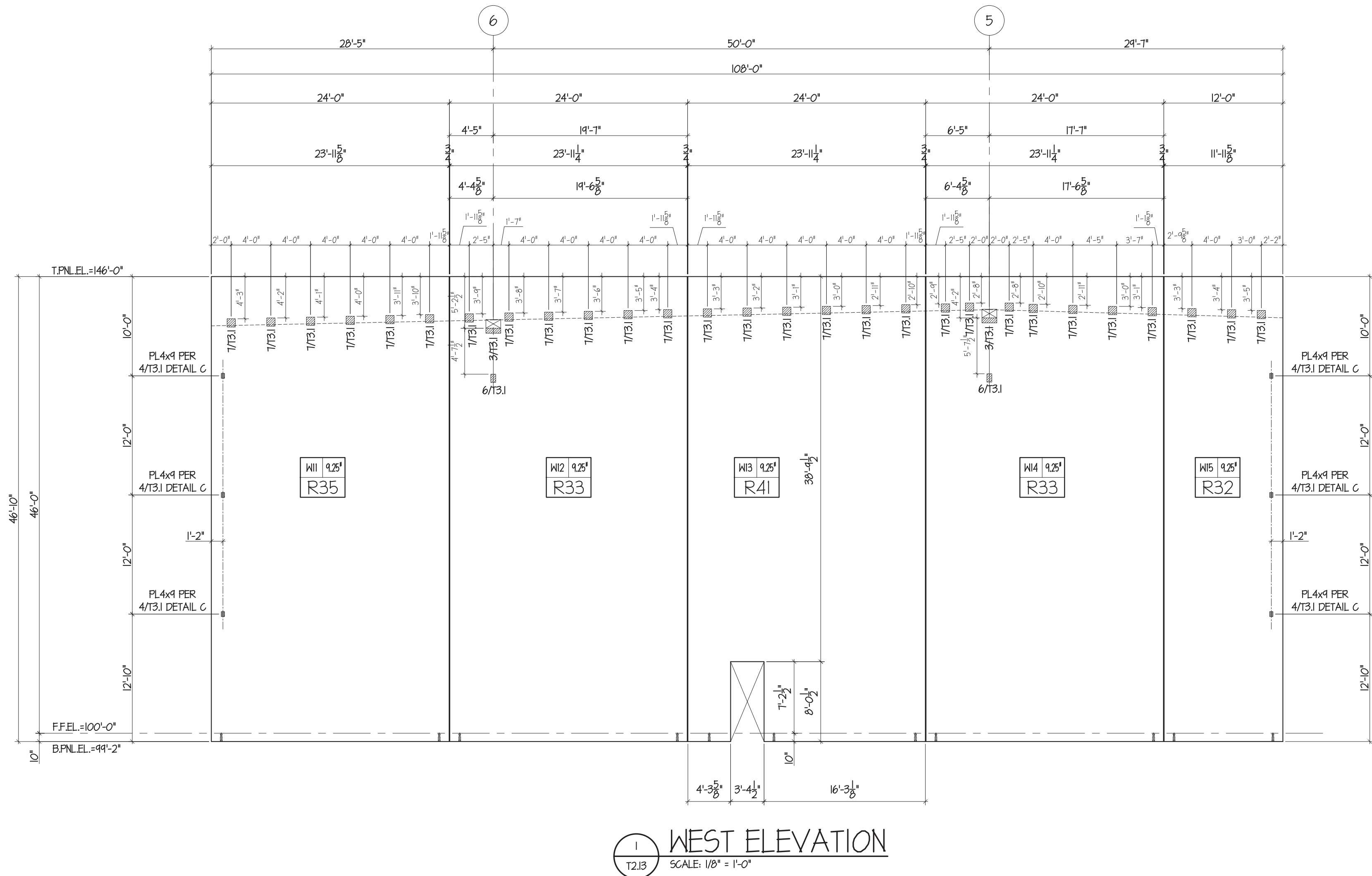
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ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16

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T2.13

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WEST ELEVATION
SCALE: 1/8" = 1'-0"



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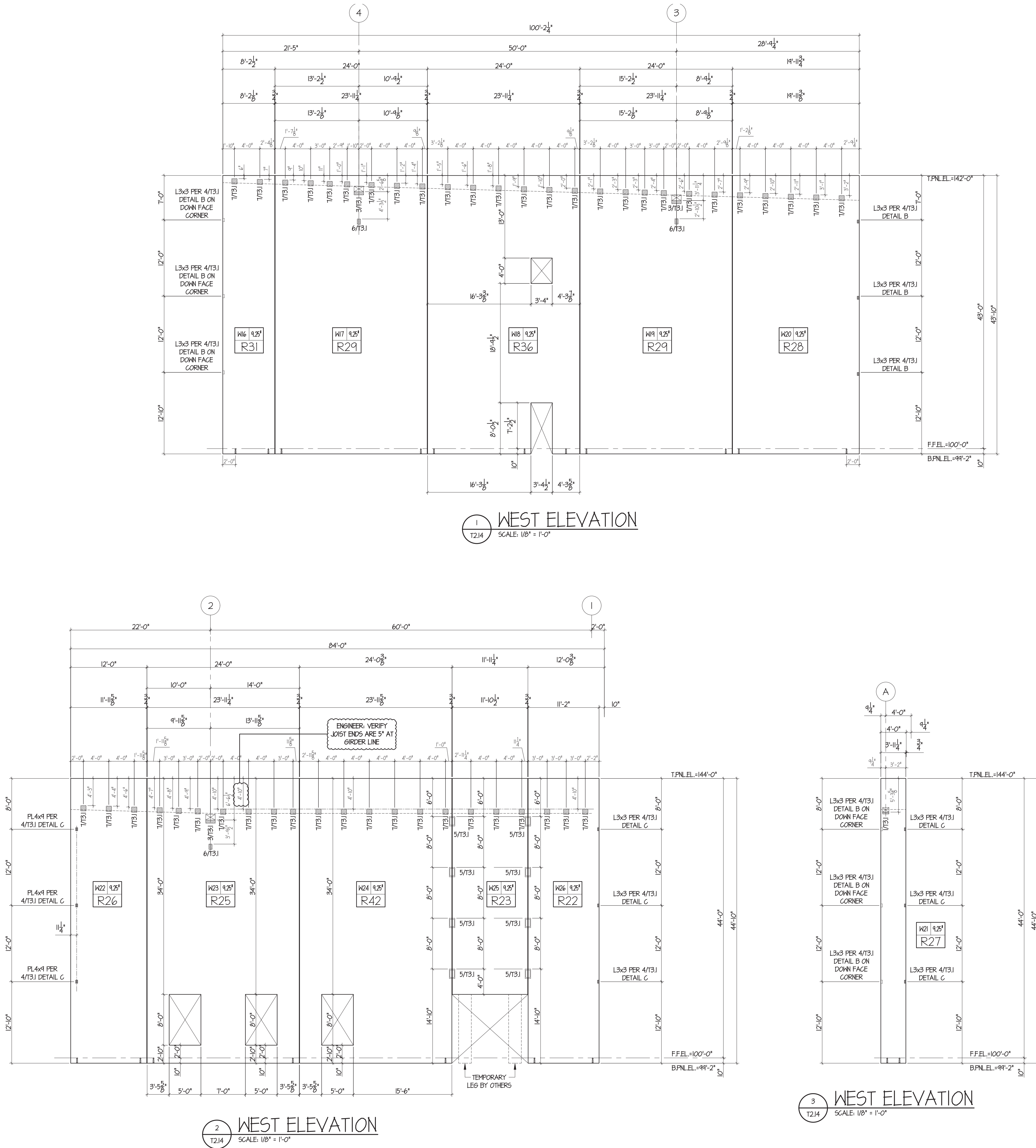
ISSUE TYPE
FOR REVIEW AND APPROVAL

ISSUE DATE
2022-05-16

SHEET NO:

T2.14

FOR REVIEW AND APPROVAL 2022-05-16

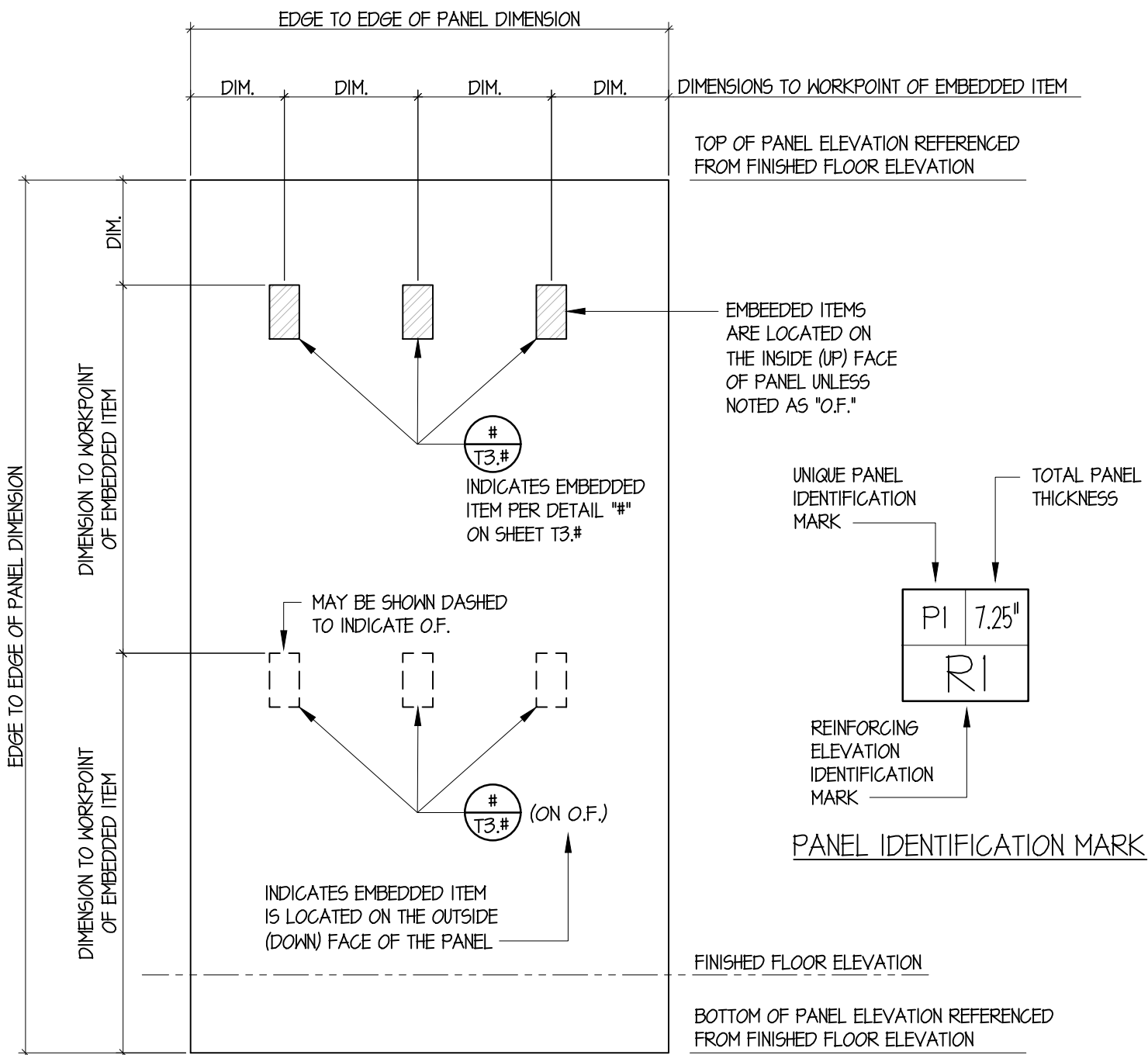


PANEL GENERAL NOTES:

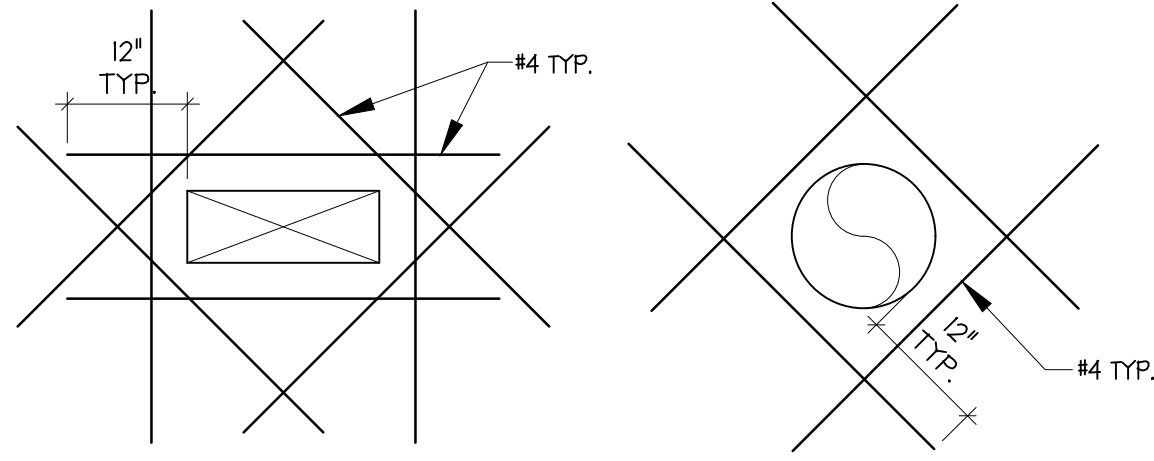
- 1) ALL TILTUP PANELS ARE SHOWN FROM THE INSIDE WITH THE OUTSIDE FACE DOWN.
- 2) WALL PANELS SHALL NOT BE LIFTED UNTIL THE CONCRETE HAS ATTAINED A COMPRESSIVE STRENGTH OF 3000psi AND A MINIMUM FLEXURAL STRENGTH OF 500psi AS DETERMINED BY STANDARD BEAMS FIELD CURED AND BROKEN IN ACCORDANCE WITH ASTM C19-64 (OR AS OTHERWISE SPECIFIED BY THE LIFTING AND BRACING ENGINEER). CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4500psi (OR AS NOTED OTHERWISE ON DRAWINGS).
- 3) FOR REINFORCING STEEL PLACEMENT REFER TO THE T4 SHEETS.
- 4) FOR PANEL LIFTING AND BRACING, REFER TO DRAWINGS BY OTHERS.
- 5) CHLORIDE BASED ADMIXTURES ARE PROHIBITED IN CONCRETE USED FOR WALL PANELS.
- 6) TEMPORARY BRACING (BY OTHERS) SHALL BE PROVIDED FOR WALL PANELS IN THE ERECTED POSITION. INSTALLATION OF WALL BRACES SHALL MEET ALL REQUIREMENTS OF THE BRACE SUPPLIER.
- 7) TEMPORARY BRACING (BY OTHERS, I.e. MEADOW-BURKE) SHALL BE DESIGNED PER "TILT-UP CONCRETE ASSOCIATIONS GUIDELINE FOR TEMPORARY WIND BRACING OF TILT-UP CONCRETE PANELS DURING CONSTRUCTION" (LATEST VERSION).
- 8) MAXIMUM DEPTH OF HORIZONTAL AND VERTICAL REVEALS (OR BRICK) IS 3/4". ALL TILTUP PANELS WILL BE SIZED AND DETAILED BASED ON A 3/4" REVEAL (BRICK) DEPTH. ANY REDESIGN REQUIRED DUE TO DEEPER REVEALS WILL BE TREATED AS ADDITIONAL SERVICES, REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL REVEAL INFORMATION INCLUDING EXACT LOCATIONS, REVEALS (BRICK) MAY BE SHOWN ON THE TILTUP DRAWINGS IN THEIR APPROXIMATE LOCATIONS OR MAY BE EXCLUDED FROM THE TILTUP DRAWINGS FOR CLARITY. TILTUP DRAWINGS WILL NOT BE REVISED TO SHOW RELOCATED OR ADDITIONAL REVEALS (BRICK).
- 9) TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL BUILDING LATERAL FRAMING SYSTEM IS COMPLETE (I.e.-METAL ROOF DECK, BRACES, MOMENT FRAMES, FLOOR SLAB, etc.) OR AS DIRECTED BY THE PROJECT ENGINEER OF RECORD.

PANEL REINFORCING NOTES:

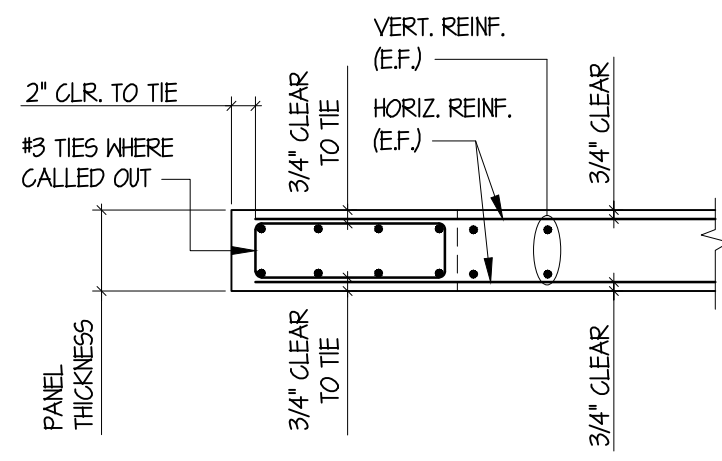
- 1) ALL REBAR TO BE ASTM A615 GRADE 60 UNO.
- 2) MAINTAIN 6" CLEAR FOR ALL BARS PARALLEL TO FUTURE OPENINGS UNLESS SHOWN OTHERWISE. ADDITIONAL REINFORCING BARS AT FORMED OR FUTURE OPENINGS SHALL BE LOCATED AS SHOWN.
- 3) THE CLEAR DISTANCE BETWEEN PARALLEL BARS IN A LEVEL SHALL NOT BE LESS THAN 2".
- 4) REBAR CLEAR DISTANCE AT EDGES OF PANEL PER THE FOLLOWING: (COMPLIES WITH THE APPLICABLE VERSION OF ACI-318)
AT SIDES OF PANELS WITH CAULKED PANEL JOINTS = 3/4".
AT BOTTOM OF GROUTED PANELS = 3/4".
AT TOP OF PANELS WITH WEATHER PROOFING (I.e. METAL FLASHING, TIMBER NAILER, etc.) = 3/4".
AT ANY EDGE OF PANELS THAT ARE NOT PROTECTED FROM THE WEATHER:
#5 BARS OR LARGER = 2".
#5 BARS OR SMALLER = 1 1/2".
INSIDE AND OUTSIDE FACE REBAR CLEAR DISTANCES PER THE DETAILS ON THE T3 SHEETS.
- 5) HORIZONTAL & VERTICAL BARS SHALL NOT BE SPLICED EXCEPT AS APPROVED BY THE TILT-UP ENGINEER.
- 6) HORIZONTAL AND VERTICAL REINFORCING BARS SHALL BE SECURELY TIED AT 30% OF THEIR INTERSECTIONS. TIES ARE TO BE DISTRIBUTED UNIFORMLY THROUGHOUT THE REINFORCING MAT. BARS SHALL BE TIED ADEQUATELY TO TO PREVENT REBAR FROM MOVING DURING CONCRETE PLACEMENT.



TYPICAL PANEL ELEVATION

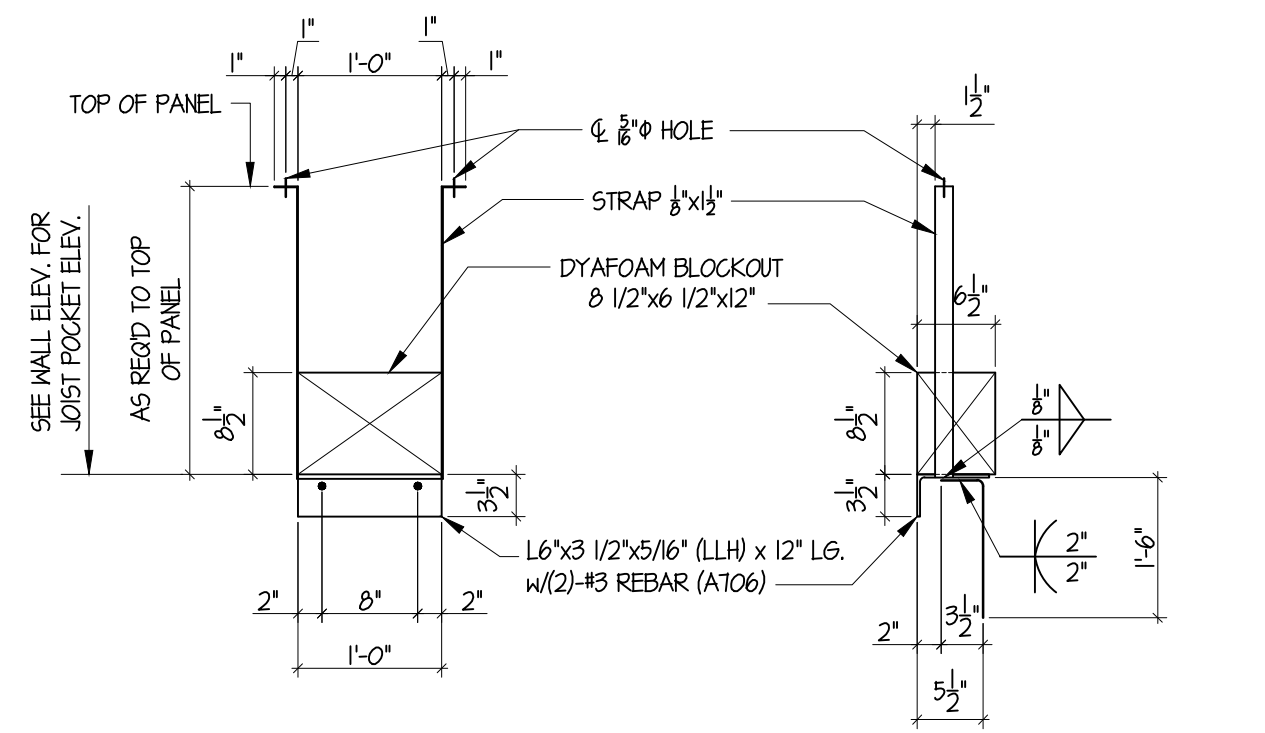
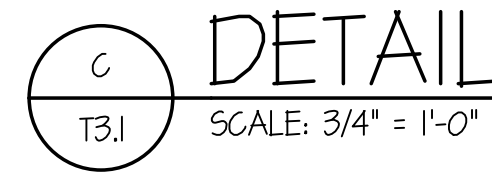


TYPICAL REINFORCING AT MEP/SCUPPER OPENINGS

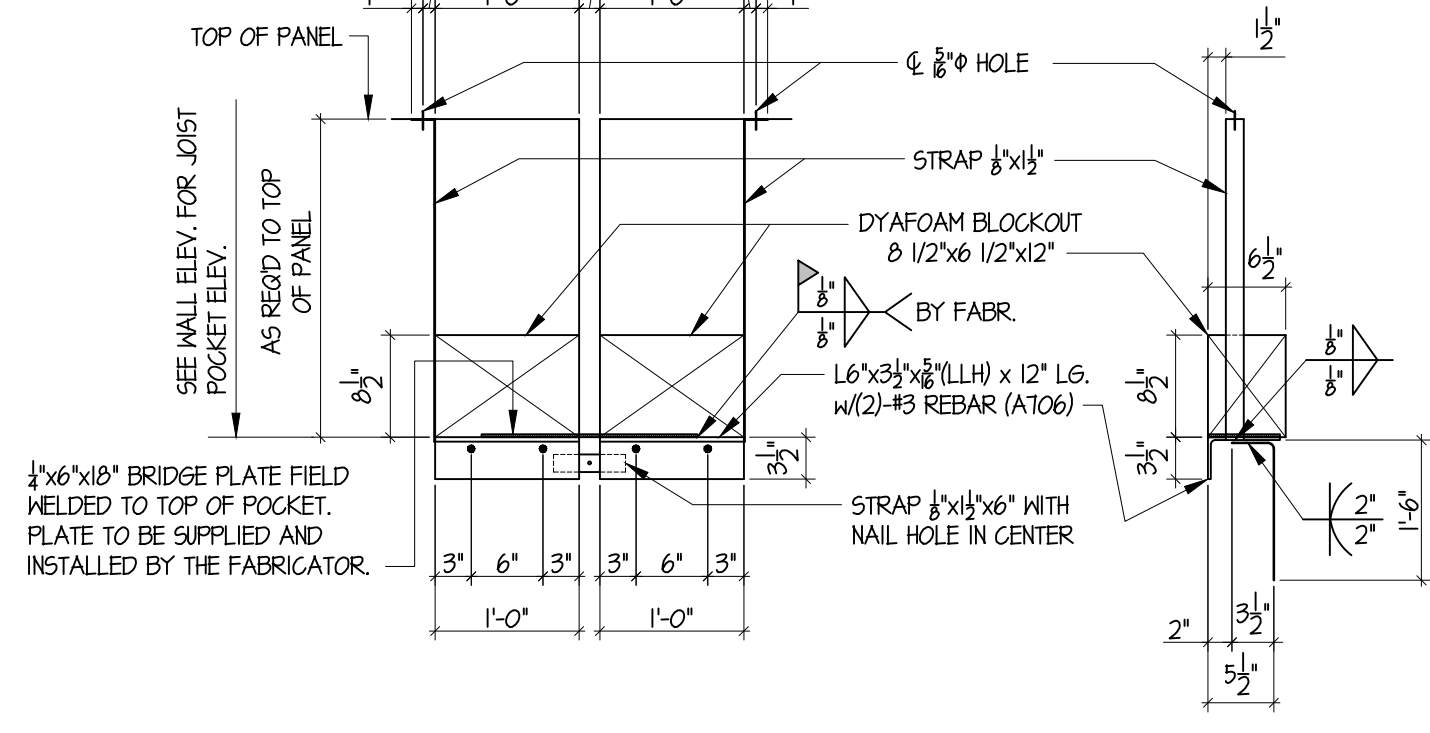
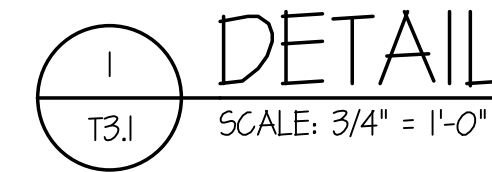


PANELS WITH REINFORCING EACH FACE (E.F.)

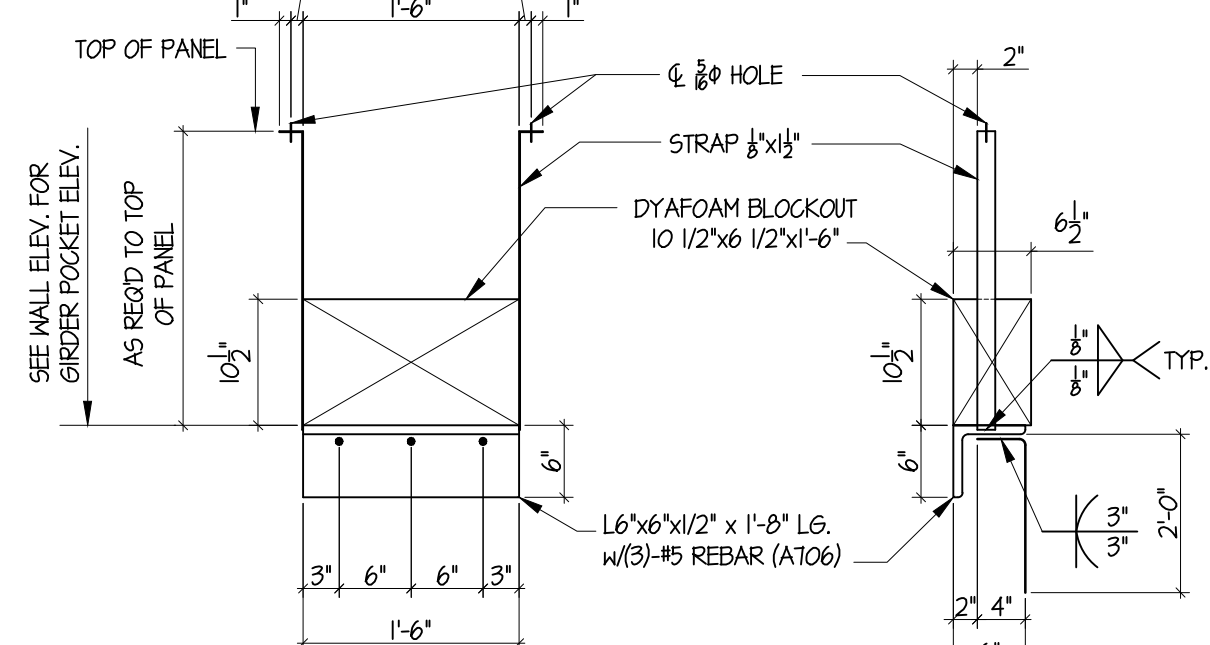
TYPICAL PANEL REINFORCING DETAILS



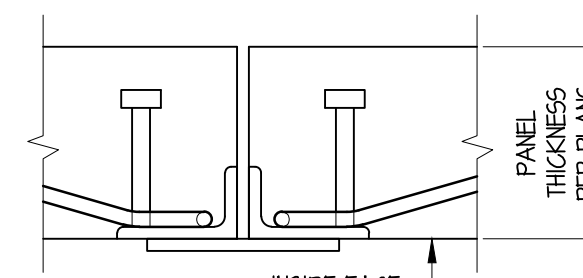
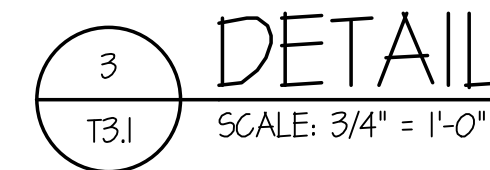
TYPICAL "LH" JOIST BEARING SEAT



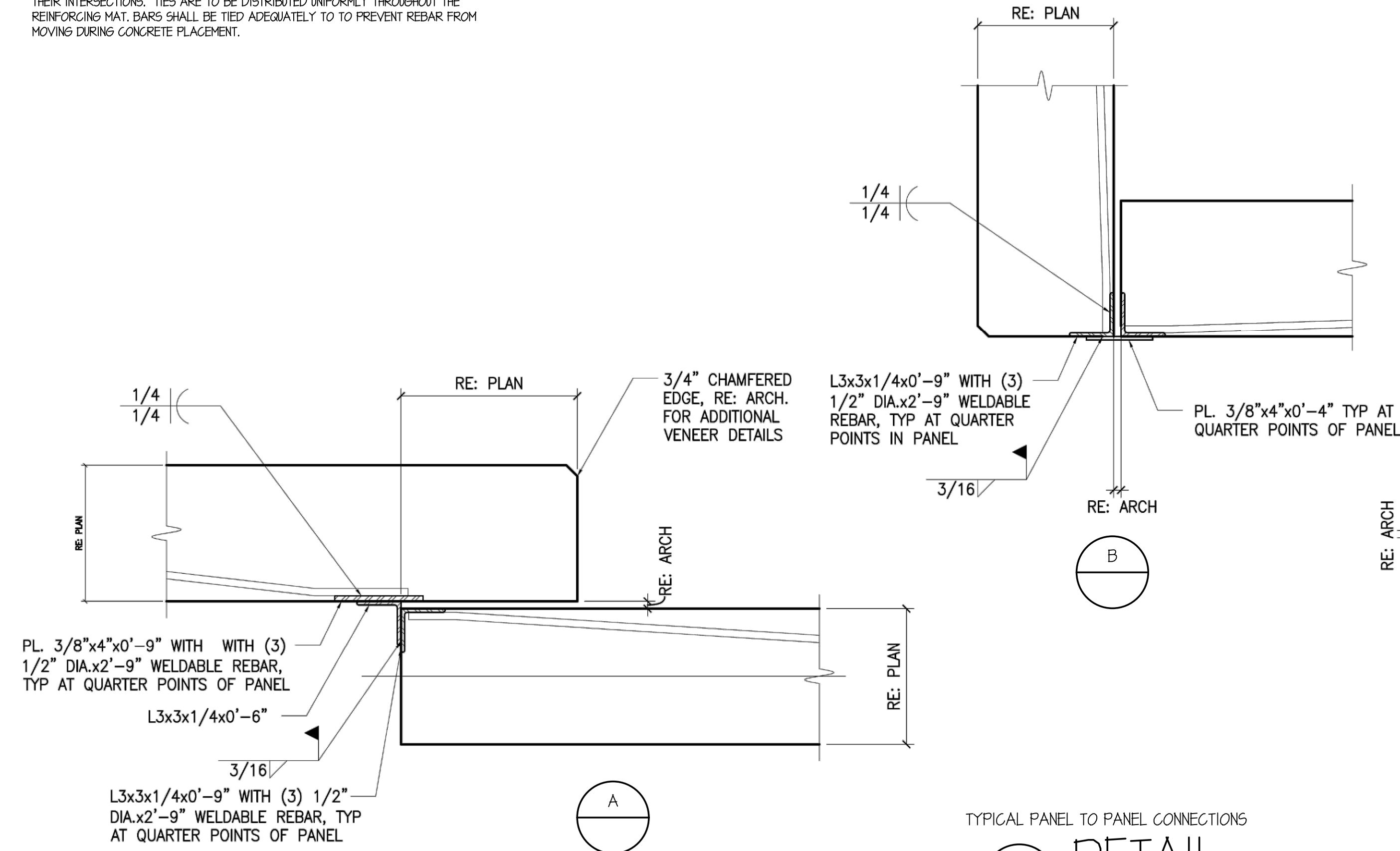
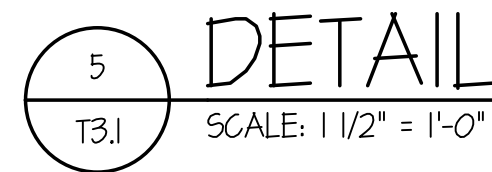
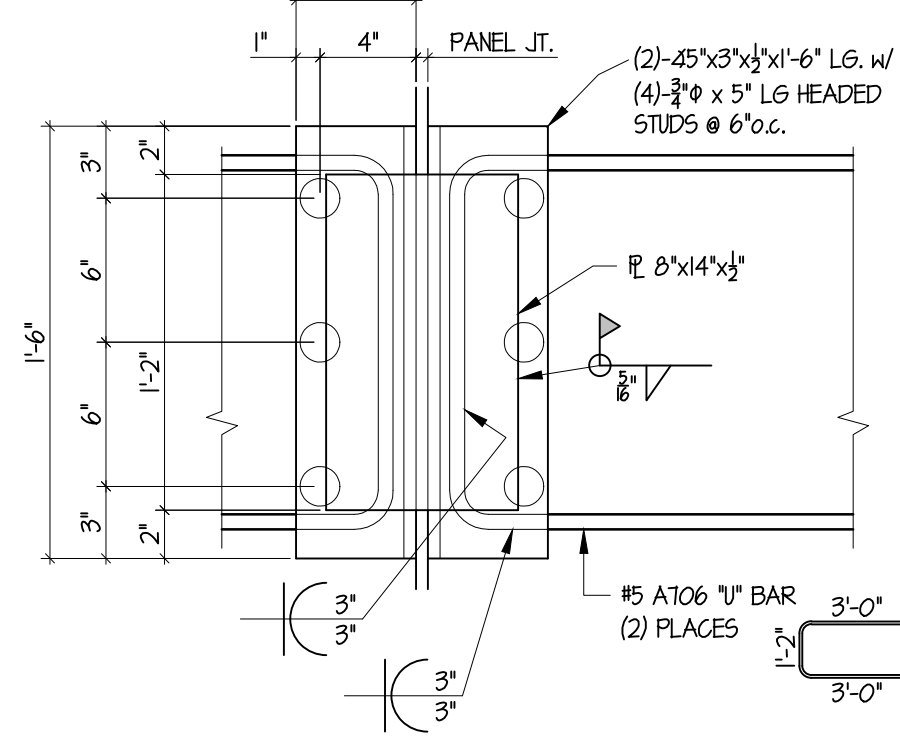
TYPICAL LH JOIST BEARING SEAT AT PANEL JOINT



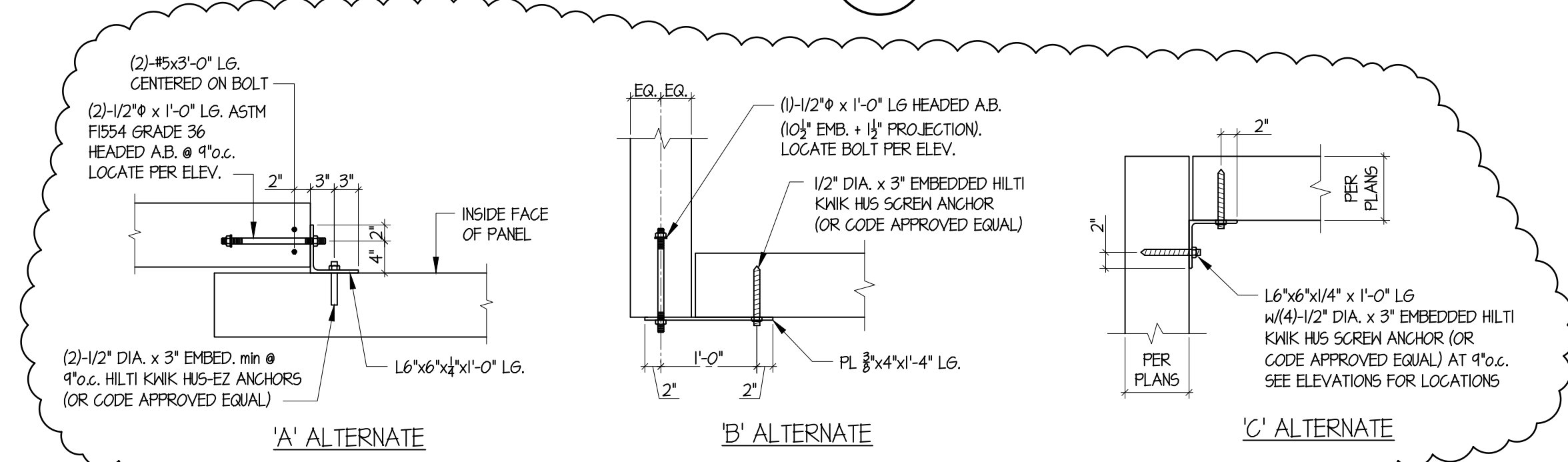
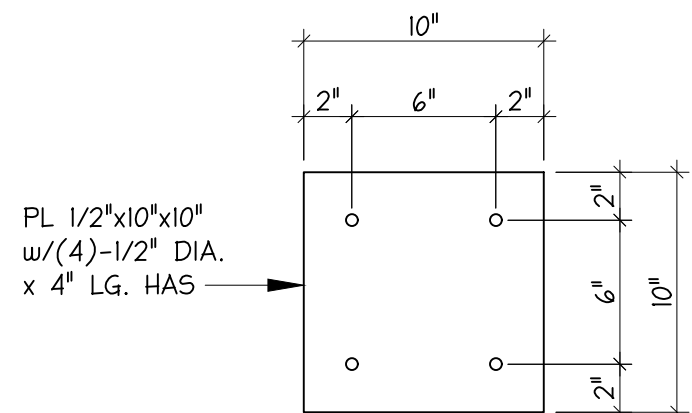
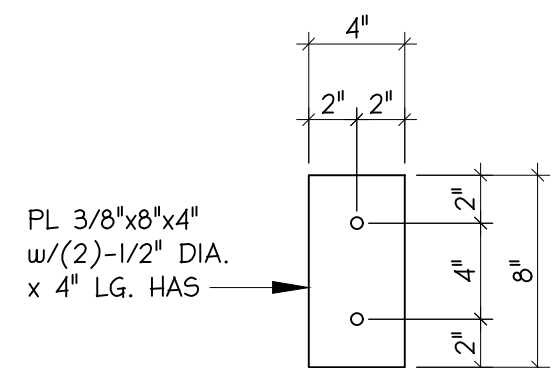
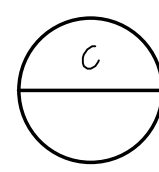
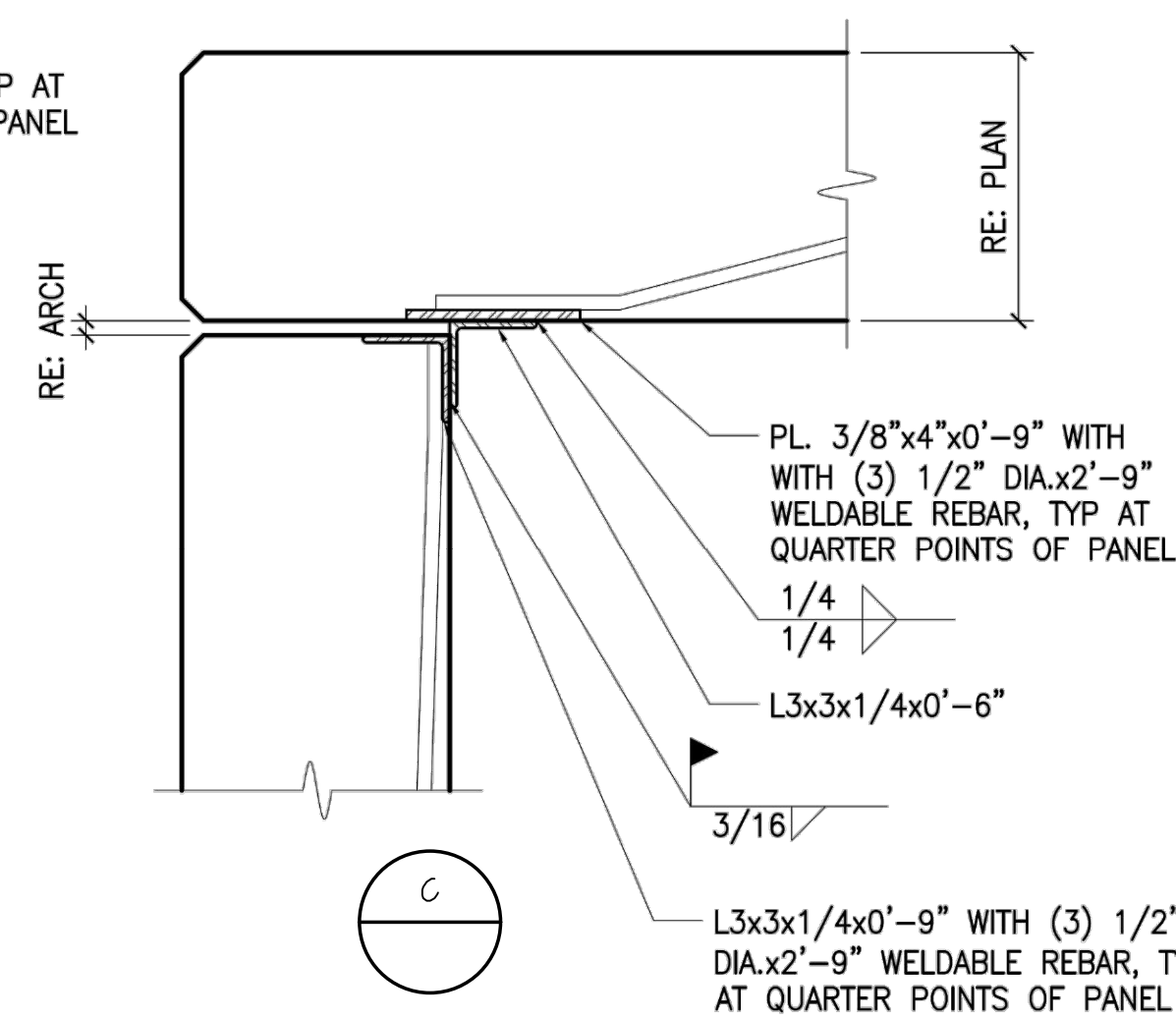
TYPICAL GIRDER BEARING SEAT



TYPICAL GIRDER BEARING SEAT



TYPICAL PANEL TO PANEL CONNECTIONS



'A' ALTERNATE

'B' ALTERNATE

'C' ALTERNATE

FIELD USE 2022-06-09

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ISSUE TYPE	ISSUE DATE
FOR REVIEW AND APPROVAL	2022-05-16
FIELD USE	2022-06-09
REVISION 1	2022-06-27
REVISION 2	2022-07-05

SHEET NO:

T3.1

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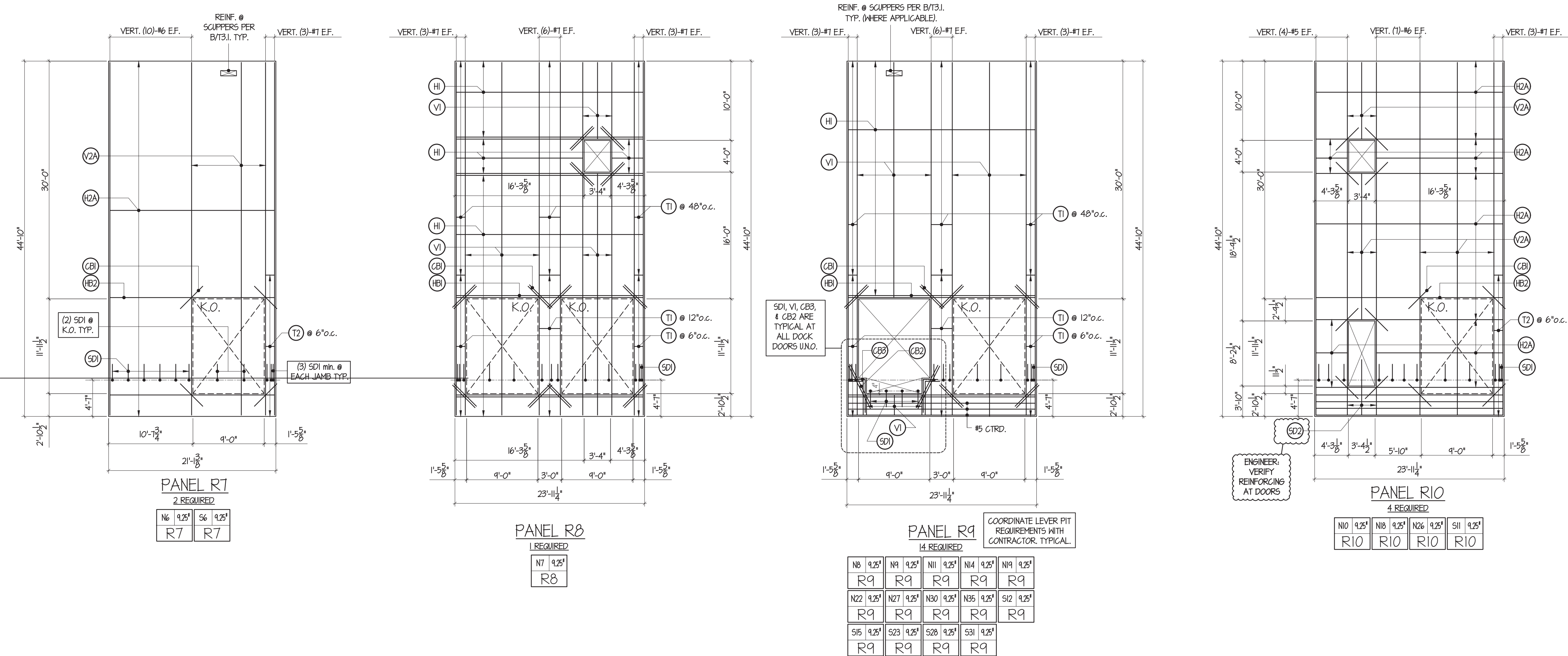
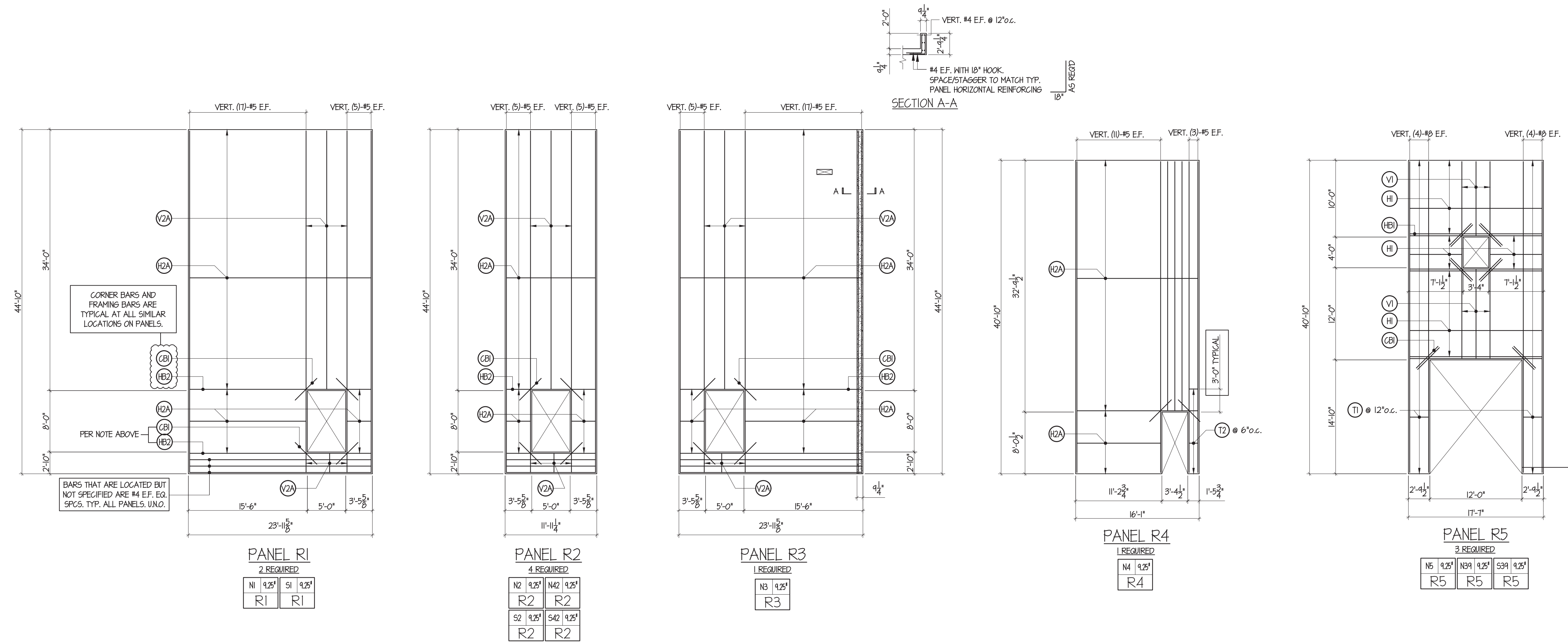
FOR REVIEW AND APPROVAL 2022-05-16

ISSUE TYPE
FOR REVIEW AND APPROVAL

ISSUE DATE
2022-05-16

SHEET NO.:

T4.1



REINFORCING SCHEDULE			
(V1)	VERT. #4 @ 16" o.c. CTRD.	(H1)	HORZ. #5 @ 16" o.c. CTRD.
(V2)	VERT. #4 @ 18" o.c. EF.	(H2)	HORZ. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. STAGGERED 16" o.c.	(H2A)	HORZ. #5 @ 32" o.c. EF. STAGGERED 16" o.c.
		(SD1)	#4 SLAB DOWELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)
		(SD2)	#4 x 1" L.G. SLAB DOWELS @ 12" o.c. (FIELD BEND)
		(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
(T1)	#3 ONE PIECE TIE w/90° HOOKS	(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
(T2)	#3 TWO PIECE TIE w/90° HOOKS	(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
(T1) & (T2)	MAY BE USED INTERCHANGEABLY		
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)		
(HB1)	HORIZONTAL BAR (2)-#5 CTRD. @ 3' o.c. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)		



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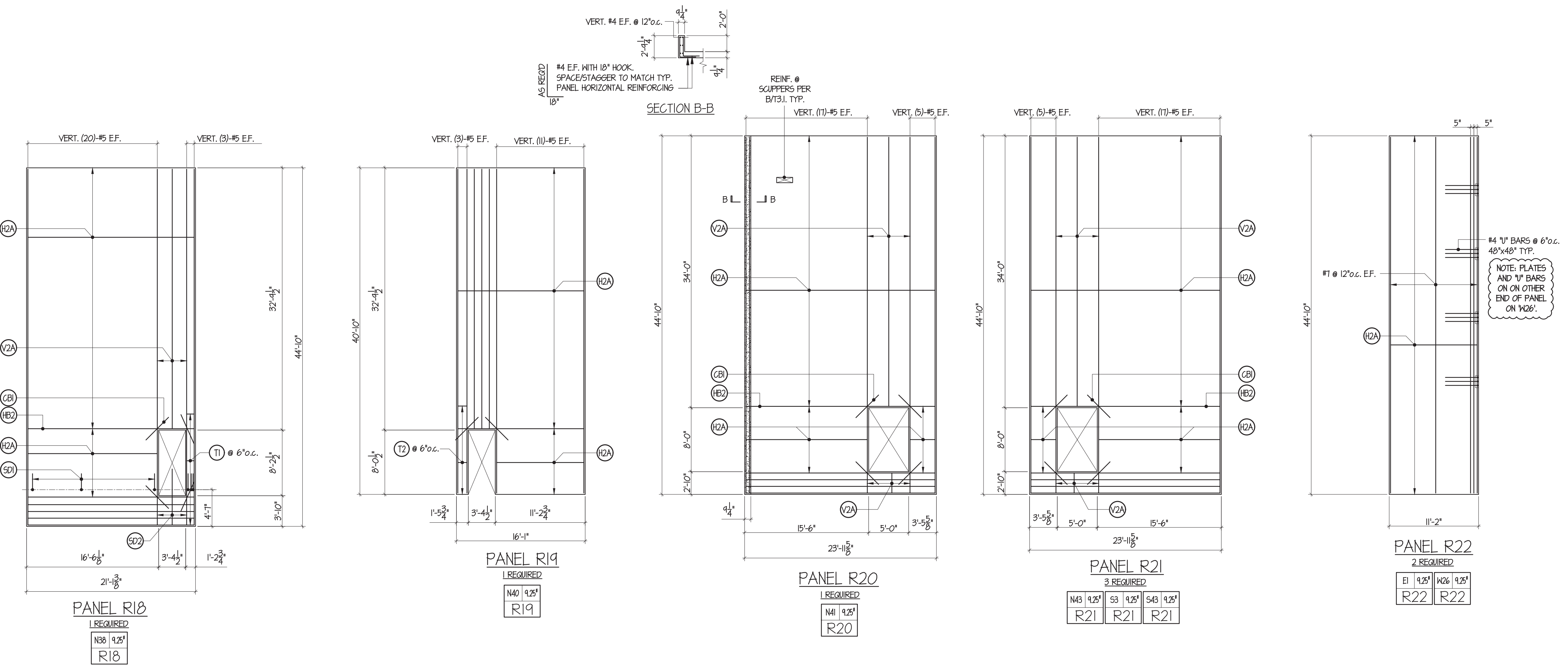
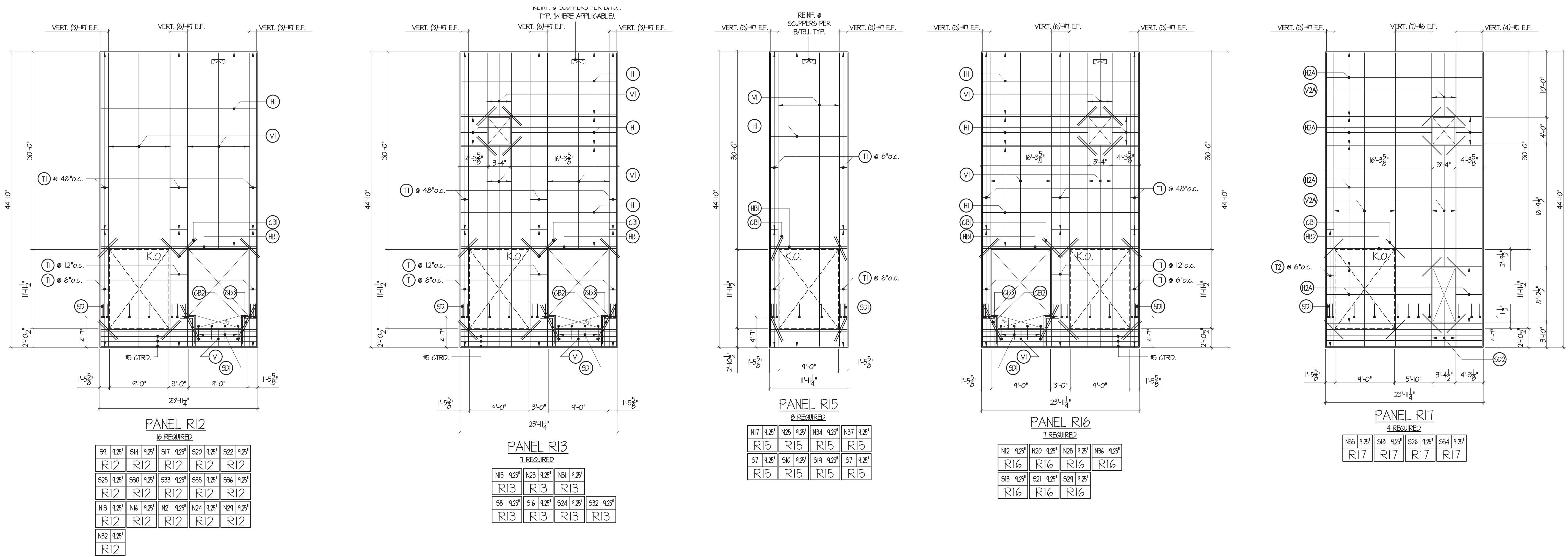
ISSUE TYPE
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ISSUE DATE
2022-05-16

SHEET NO:

T4.2

FOR REVIEW AND APPROVAL 2022-05-16



REINFORCING SCHEDULE			
(V1)	VERT. #4 @ 16" o.c. CTDR.	(H1)	HORZ. #5 @ 16" o.c. CTDR.
(V2)	VERT. #4 @ 18" o.c. EF.	(H2)	HORZ. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.	(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
		(SD1)	#4 SLAB DOWELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)
		(SD2)	#4 x 1'-0" L.G. SLAB DOWELS @ 12" o.c. (FIELD BEND)
		(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CTDR. @ 3" o.c.
		(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CTDR. @ 3" o.c.
		(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CTDR. @ 3" o.c.
(T1)	#3 ONE PIECE TIE w/90° HOOKS		
(T2)	#3 TWO PIECE TIE w/90° HOOKS		
(T1) & (T2)	MAY BE USED INTERCHANGEABLY		
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)		
(HB1)	HORIZONTAL BAR (2)-#5 CTDR. @ 3" o.c. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)		



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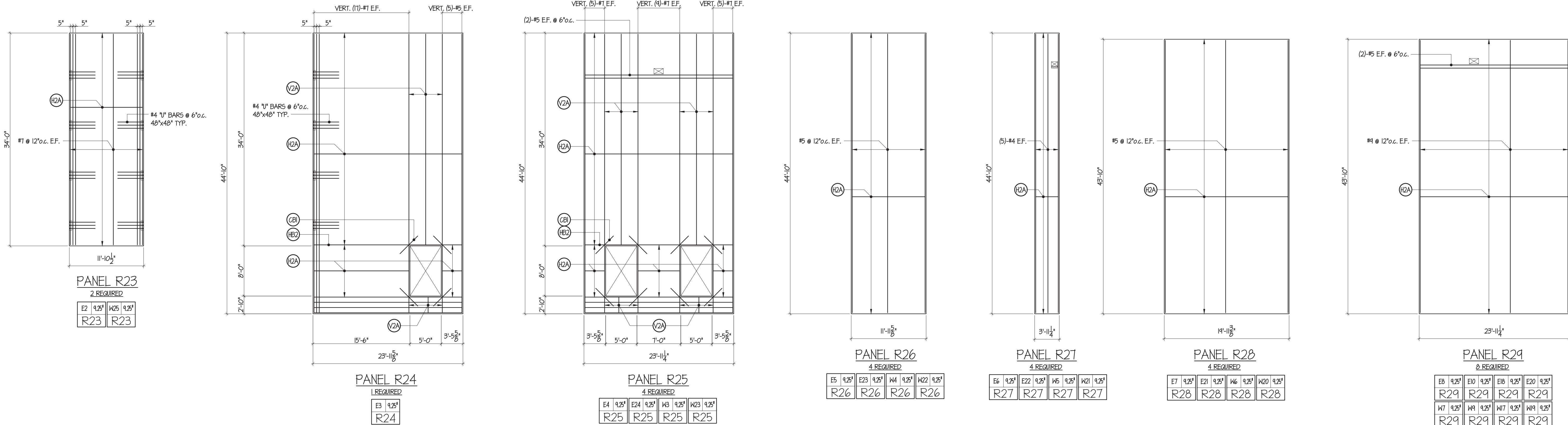
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ISSUE DATE
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SHEET NO:

T4.3

FOR REVIEW AND APPROVAL 2022-05-16



REINFORCING SCHEDULE			
(V1)	VERT. #4 @ 16" o.c. CT RD.	(H1)	HORZ. #5 @ 16" o.c. CT RD.
(V2)	VERT. #4 @ 18" o.c. EF.	(H2)	HORZ. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.	(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
		(SD)	#4 SLAB DOWELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)
		(SD2)	#4 x 1'-0" L.G. SLAB DOWELS @ 12" o.c. (FIELD BEND)
		(CB)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CT RD. @ 3" o.c.
		(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CT RD. @ 3" o.c.
		(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CT RD. @ 3" o.c. 1'-10" 4"
(T1)	#3 ONE PIECE TIE w/90° HOOKS		
(T2)	#3 TWO PIECE TIE w/90° HOOKS		
(T1) & (T2)	MAY BE USED INTERCHANGEABLY		
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQD IF JAMB IS 30" OR MORE)		
(HB)	HORIZONTAL BAR (2)-#5 CT RD. @ 3" o.c. w/10" HOOKS EA. END (HOOK NOT REQD IF JAMB IS 30" OR MORE)		



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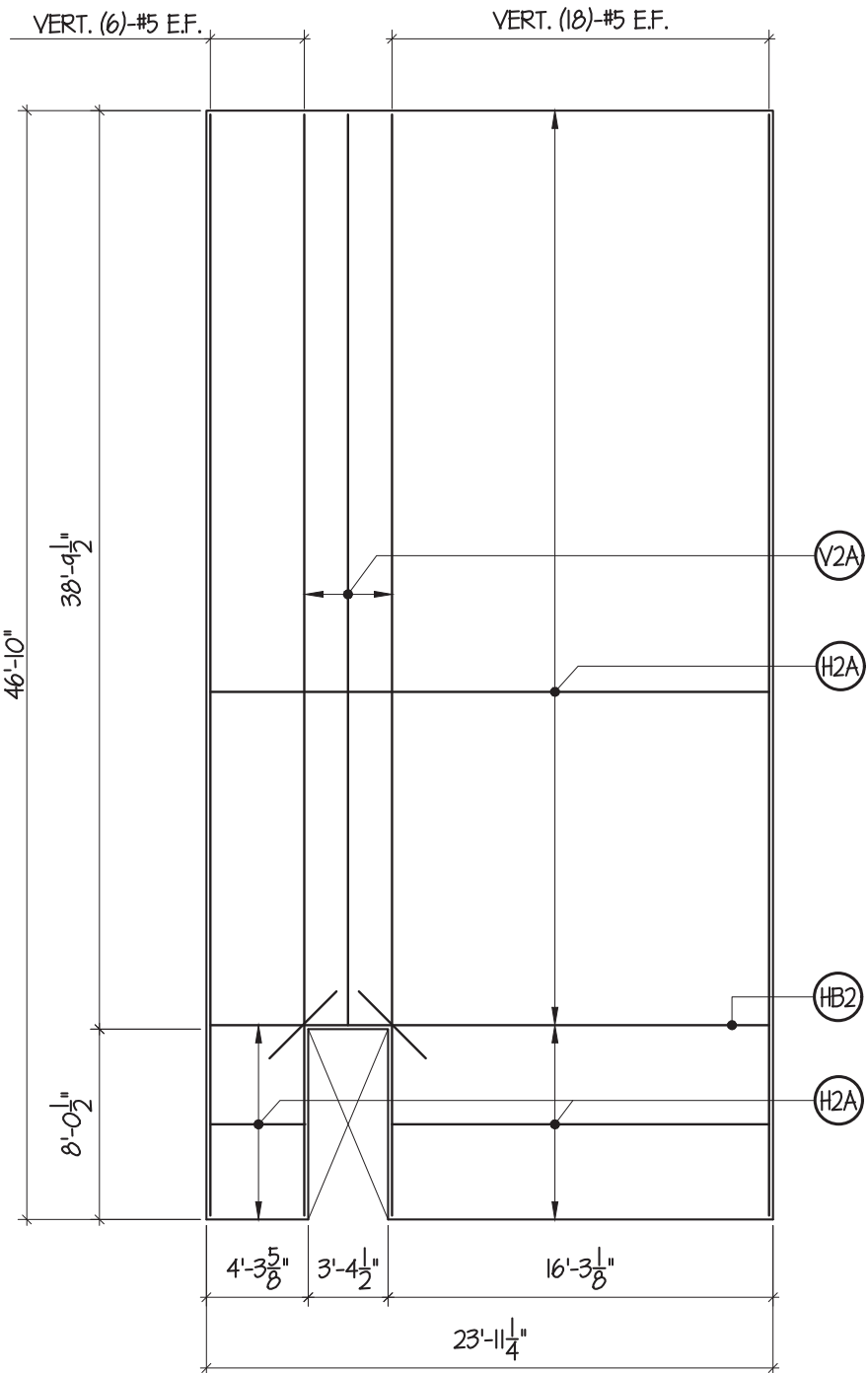
ISSUE DATE
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SHEET NO.:

T4.4

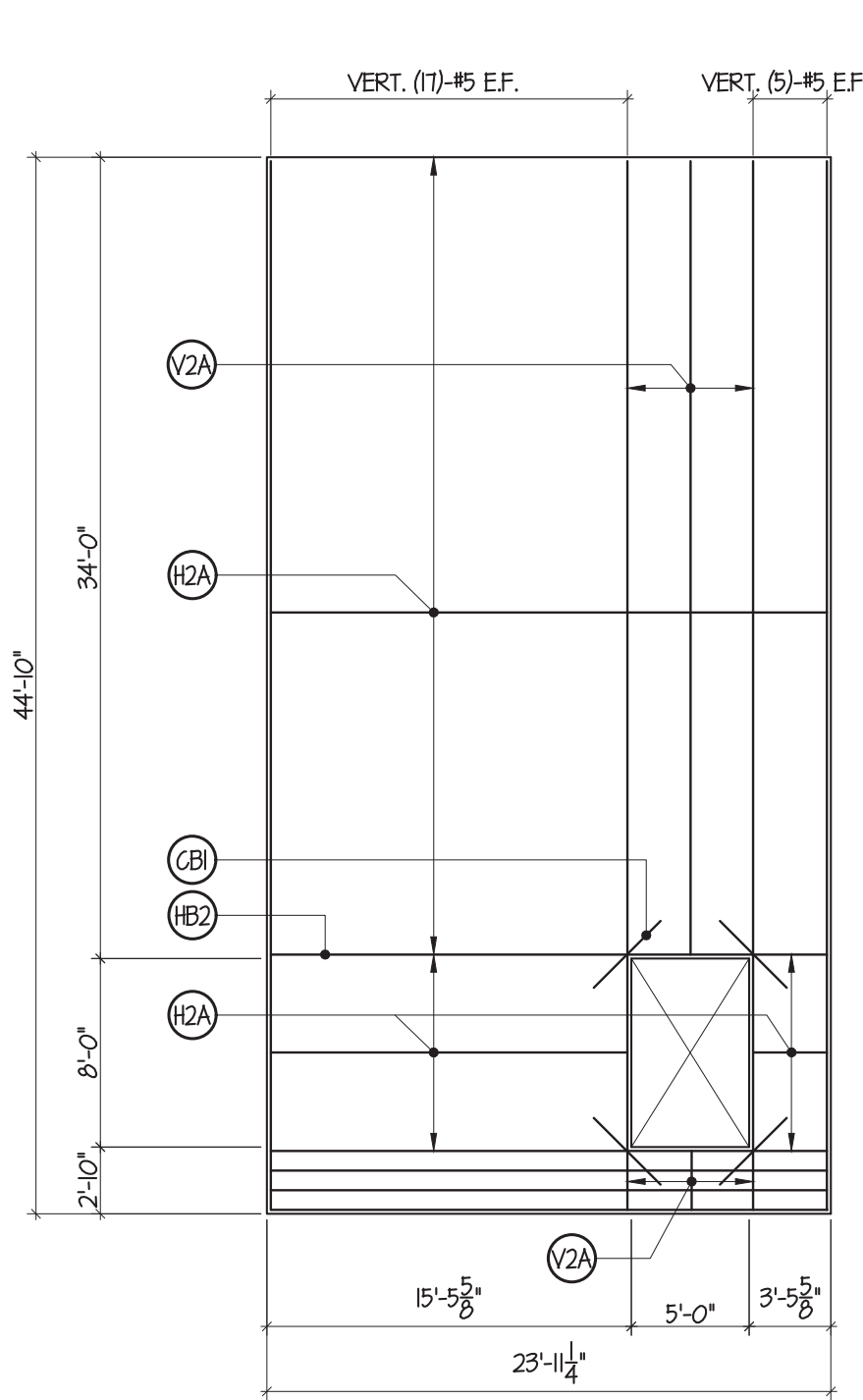
FOR REVIEW AND APPROVAL 2022-05-16

REINFORCING SCHEDULE			
(V1)	VERT. #4 @ 16" o.c. CT RD.	(H1)	HORZ. #5 @ 16" o.c. CT RD.
(V2)	VERT. #4 @ 18" o.c. EF.	(H2)	HORZ. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.	(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
		(SD1)	#4 SLAB DOWELS @ 24" o.c. MAX. (min. 3 PER LEG/JAMB)
		(SD2)	#4 x 1'-0" LG. SLAB DOWELS @ 12" o.c. (FIELD BEND)
		(CB)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CT RD. @ 3' o.c.
		(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CT RD. @ 3' o.c.
		(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CT RD. @ 3' o.c.
(T1)	#3 ONE PIECE TIE w/90° HOOKS		
(T2)	#3 TWO PIECE TIE w/90° HOOKS		
(T1) & (T2)	MAY BE USED INTERCHANGEABLY		
(HB2)	HORIZONTAL BAR #5 EF. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)		
(HB)	HORIZONTAL BAR (2)-#5 CT RD. @ 3' o.c. w/10" HOOKS EA. END (HOOK NOT REQ'D IF JAMB IS 30" OR MORE)		



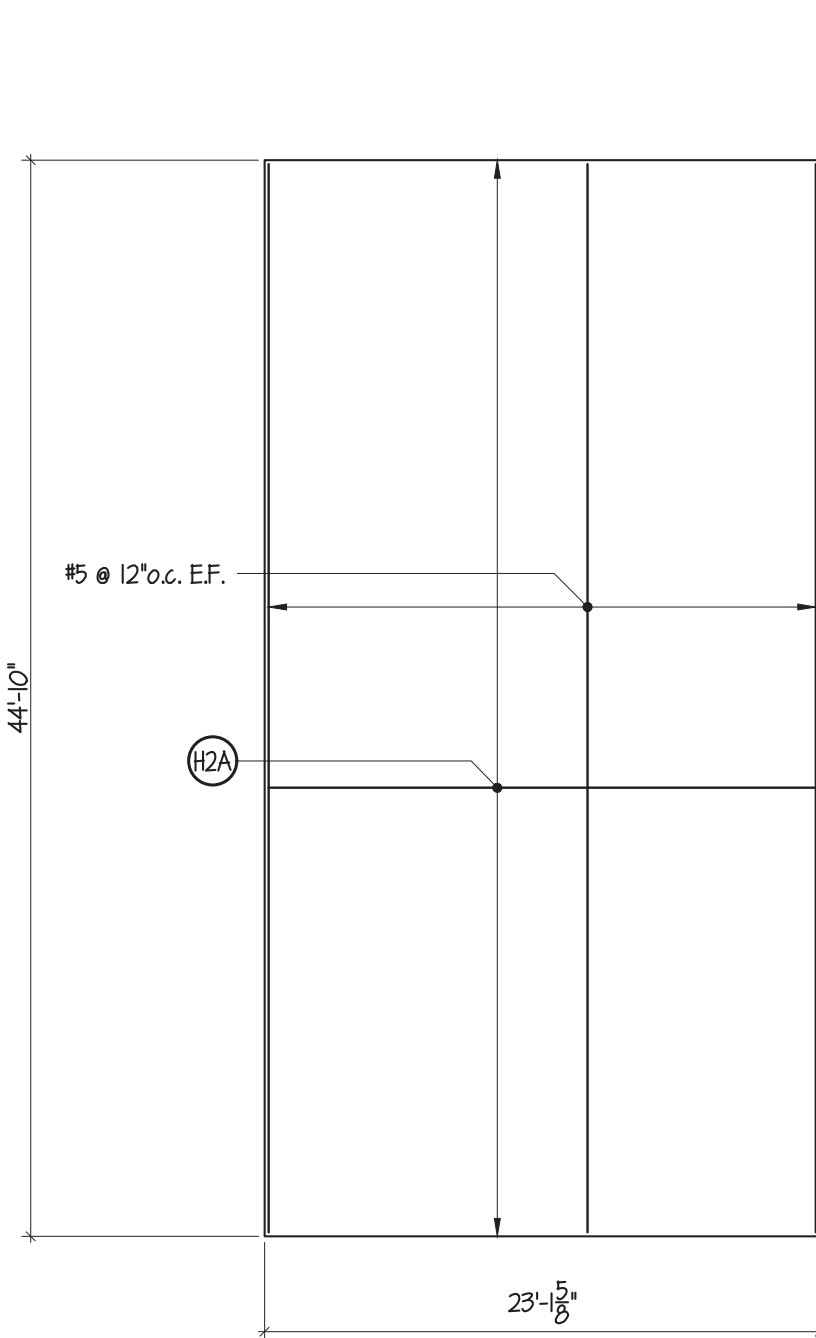
PANEL R41

1 REQUIRED
WB 9.25'
R41



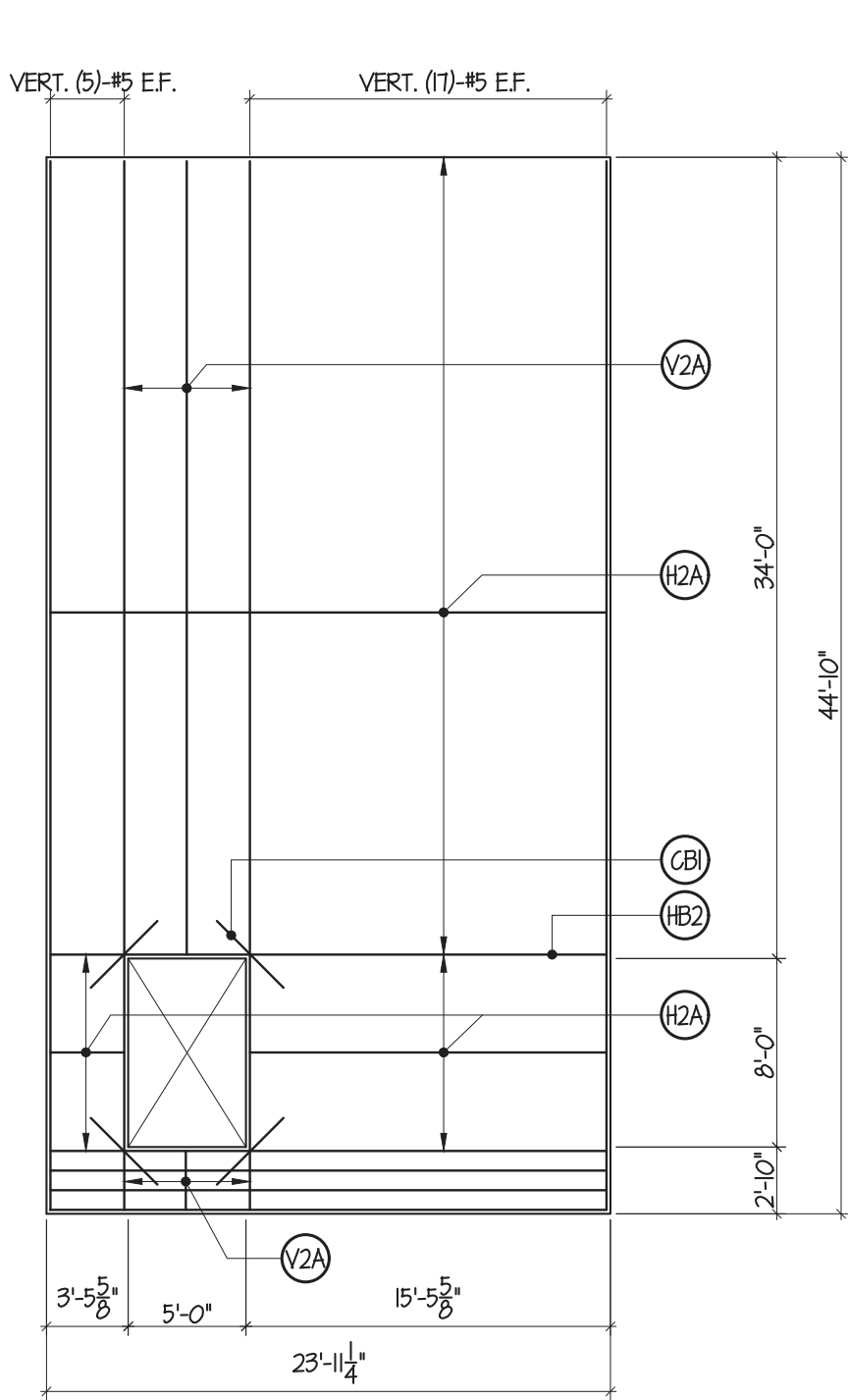
PANEL R40

1 REQUIRED
W2 9.25'
R40



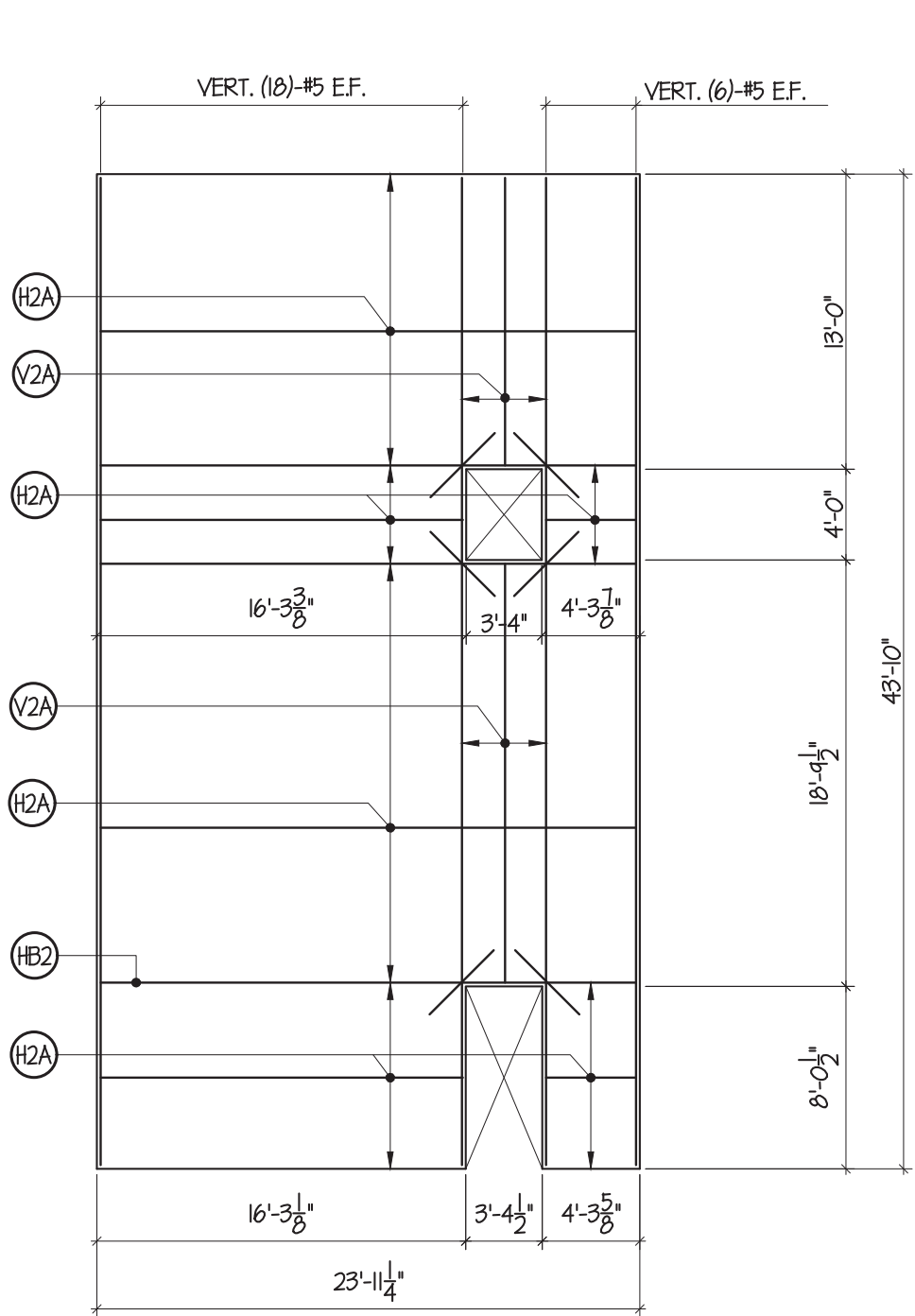
PANEL R38

2 REQUIRED
E26 9.25' W1 9.25'
R38 R38



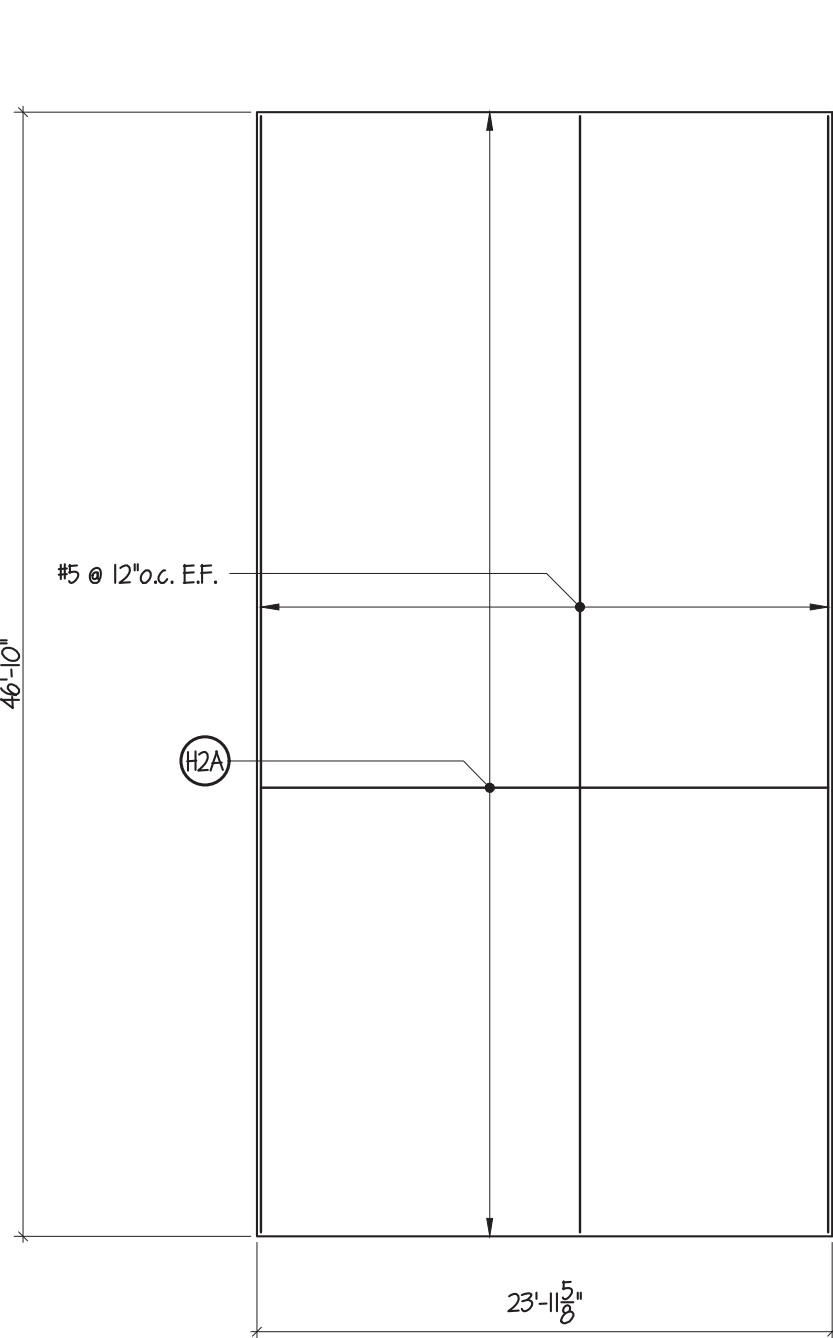
PANEL R37

1 REQUIRED
E25 9.25'
R37



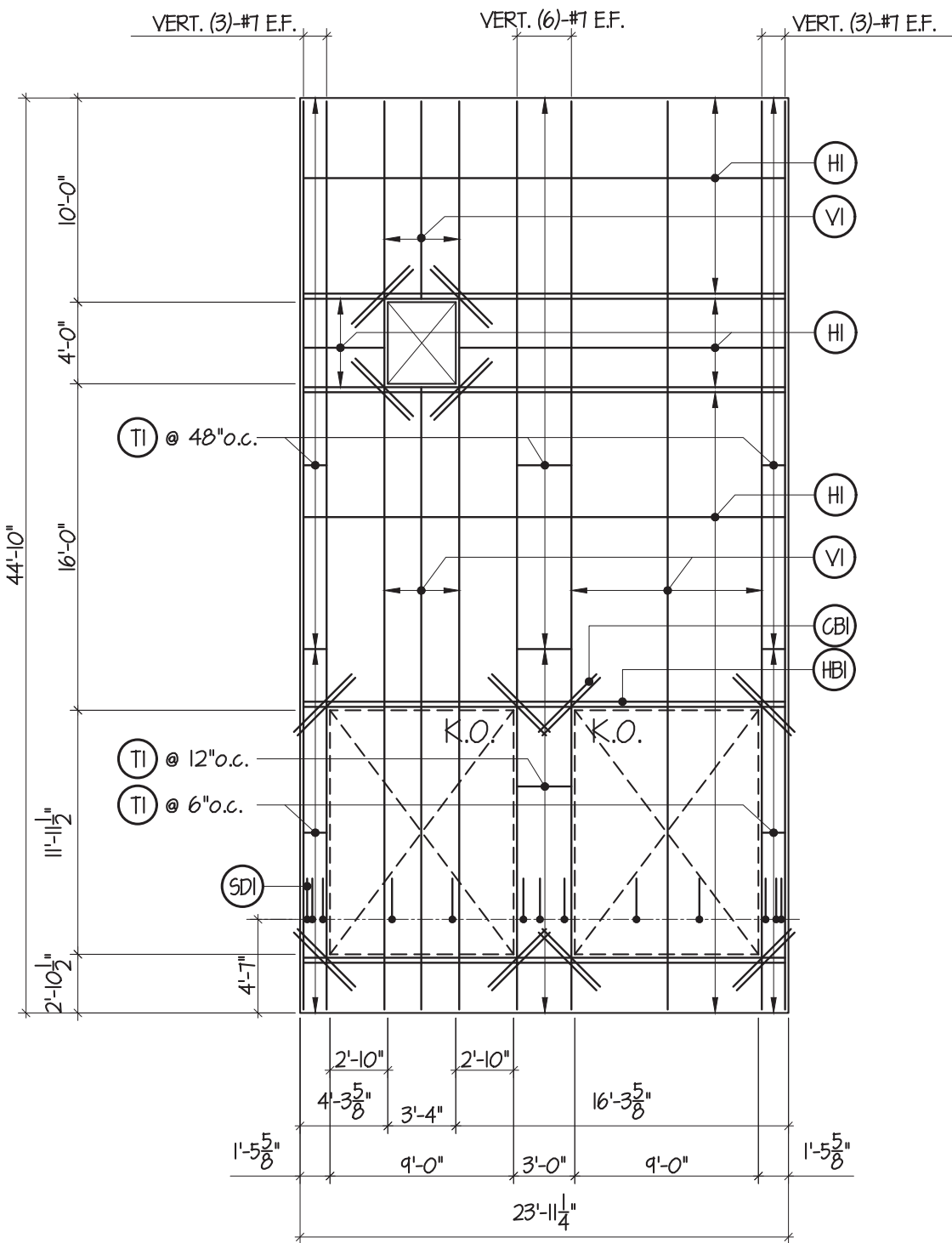
PANEL R36

2 REQUIRED
E19 9.25' W18 9.25'
R36 R36



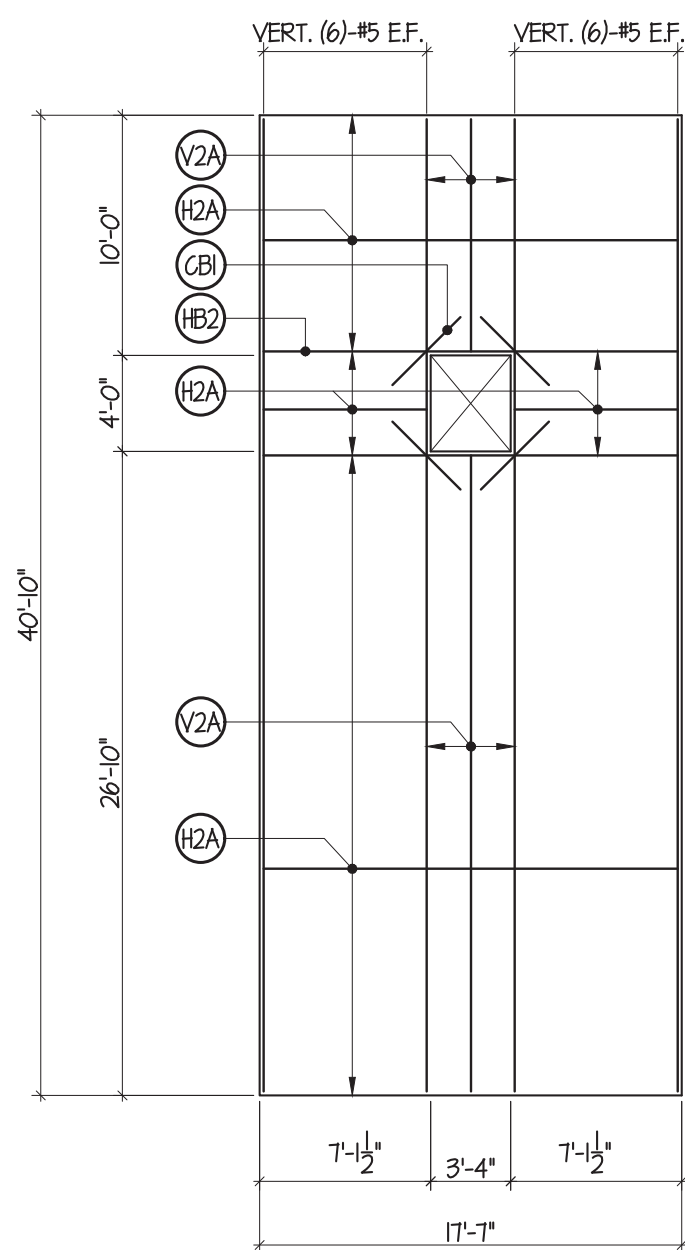
PANEL R35

2 REQUIRED
E16 9.25' W11 9.25'
R35 R35



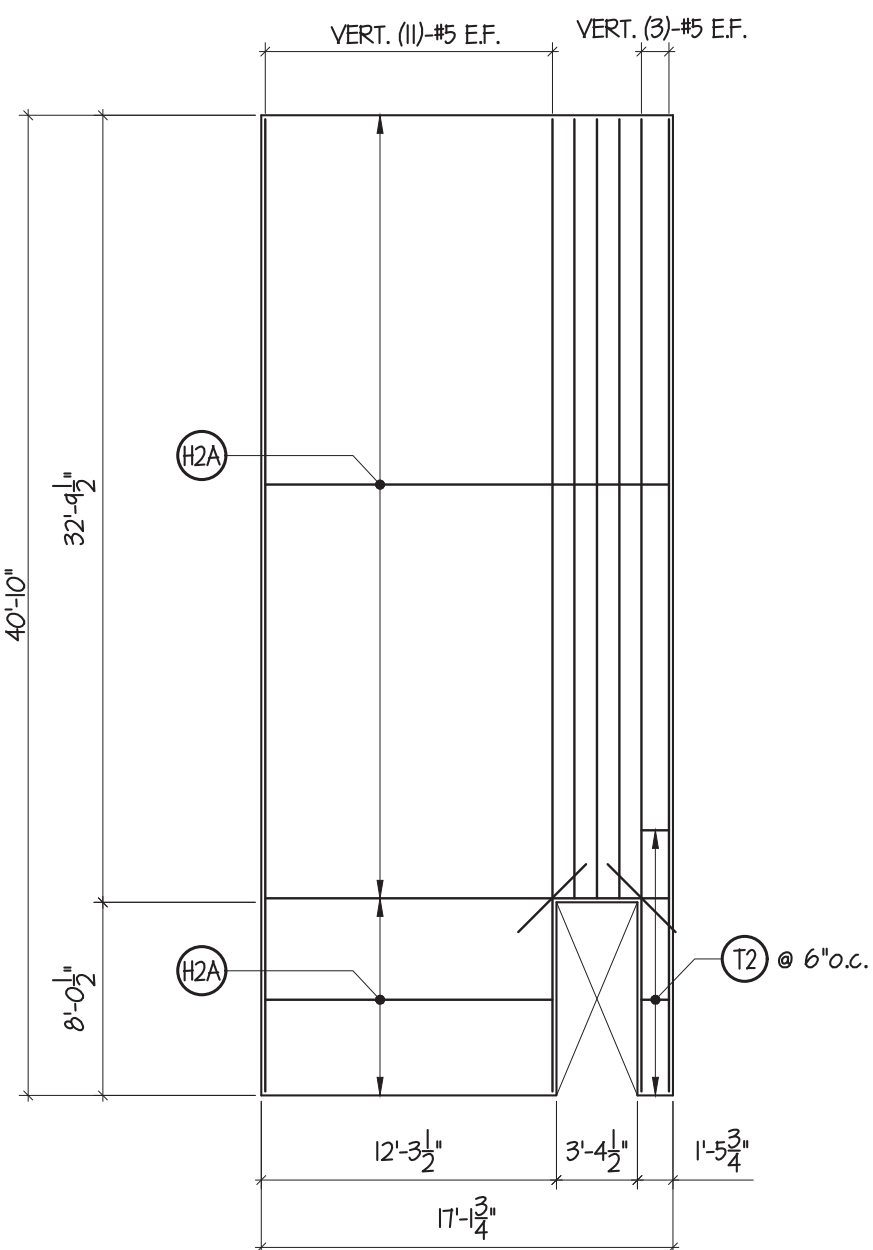
PANEL R46

1 REQUIRED
S37 9.25'
R46



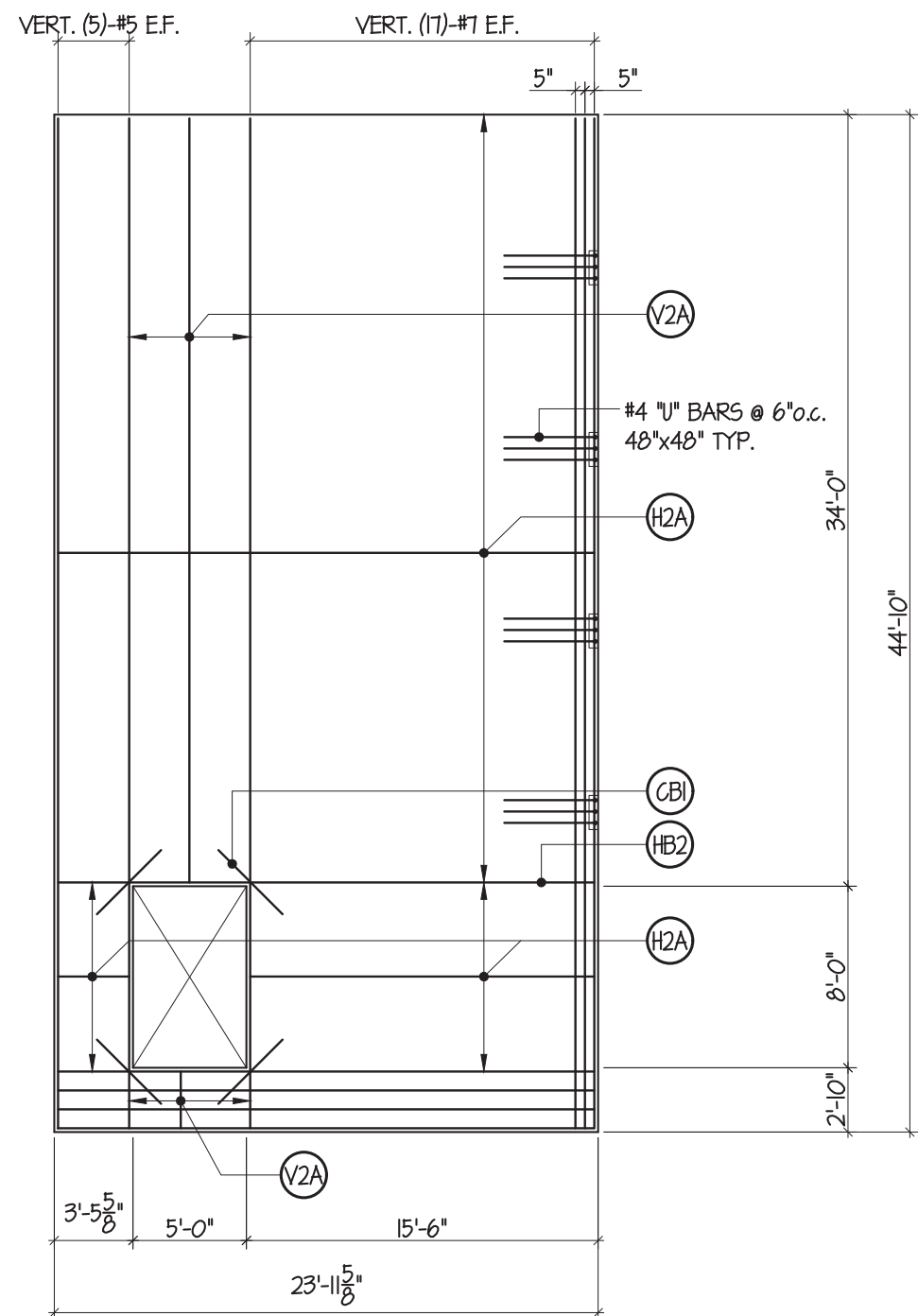
PANEL R45

1 REQUIRED
S6 9.25'
R45



PANEL R44

1 REQUIRED
S4 9.25'
R44



PANEL R42

1 REQUIRED
W24 9.25'
R42



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ISSUE DATE
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SHEET NO:

T4.5

FOR REVIEW AND APPROVAL 2022-05-16

REINFORCING SCHEDULE			
(V1)	VERT. #4 @ 16" o.c. CTRD.	(H1)	HORZ. #5 @ 16" o.c. CTRD.
(V2)	VERT. #4 @ 18" o.c. EF.	(H2)	HORZ. #4 @ 18" o.c. EF.
(V2A)	VERT. #4 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c. 	(H2A)	HORZ. #5 @ 32" o.c. EF. EACH LAYER STAGGERED 16" o.c.
		(SD1)	#4 SLAB DOWELS @ 24"o.c. MAX. (min. 3 PER LEG/JAMB)
		(SD2)	#4 x 1'-0" L.G. SLAB DOWELS @ 12"o.c. (FIELD BEND)
		(CB1)	(2)-#5 x 4'-0" CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
		(CB2)	(2)-#5 x 6'-0" CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
		(CB3)	(2)-#5 CORNER BARS (1) EF. OR (2) CTRD. @ 3' o.c.
(T1)	#3 ONE PIECE TIE w/90° HOOKS		
(T2)	#3 TWO PIECE TIE w/90° HOOKS		
(T1) & (T2)	MAY BE USED INTERCHANGEABLY		
(HB2)			
(HB1)			

