

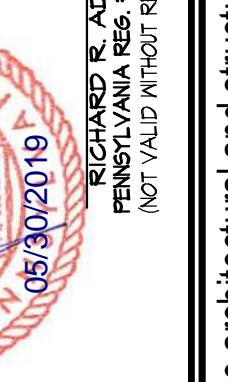
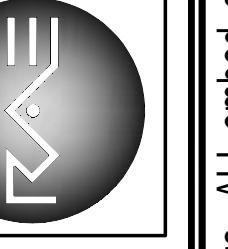
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NO.
DATE
3 05_14_19

T&T
CONSTRUCTION

340 OLEANDER WAY,
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RICHARD ADAMS ENGINEERS
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PENNSYLVANIA REGISTRATION No. 002494



This shop drawing was prepared under the supervision and control of Mr. Richard R. Adams P.E. (License # PE055494). Sealing of this shop drawing attests on that which is developed from the plans and specifications sealed by the Structural Engineer of Record which I developed on the date of my signature below. I do not verify his engineering input provided by me in the preparation of this shop drawing. This additional engineering is limited to concrete tilt wall reinforcing design.

FOR ADDITIONAL REINFORCING ON PANELS
REFER TO SHEET R8

TYPICAL PANEL REINFORCING TABLE		
MARK	SECTION DIAGRAM	REINFORCING
(A)	2' - 6" APPROX	(4) #5 VERTICAL BAR AT 10" O/C. EACH FACE
(B)	3' - 6" APPROX	(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT 8" O/C. EACH FACE
(C)	2' - 6" APPROX	(6) #5 VERTICAL BARS EACH FACE W/#3 TIES AT 7" O/C.
(D)	1' - 11 1/2" APPROX	(3) #5 VERTICAL BARS EACH FACE W/#3 TIES AT 7" O/C.
(E)	2' - 0" APPROX	(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT 7" O/C.
(F)	2' - 0" APPROX	(5) #5 VERTICAL BAR AT 10" O/C. EACH FACE
(G)	2' - 0" APPROX	(4) #5 HORIZONTAL BAR AT 16" O/C. EACH FACE
(H)	2' - 0" APPROX	(5) #5 VERTICAL BAR AT 6" O/C. EACH FACE
(I)	2' - 0" APPROX	(5) #5 HORIZONTAL BAR AT 16" O/C. EACH FACE
(J)	2' - 0" APPROX	(5) #5 VERTICAL BAR AT 10" O/C. EACH FACE
		THICKENED 11 1/4"
		THICKENED 11 1/4"

This drawing is intended merely to supplement the architectural and structural drawings. ALL embedded, opening, and panel dimensions proposed in these drawings are to be verified by the architect and/or the structural engineer. No liability is assumed by T&T Construction of Central Florida, Inc. for the correctness of this submittal.

PROJECT

MEMBER

DATE

DRAWN BY

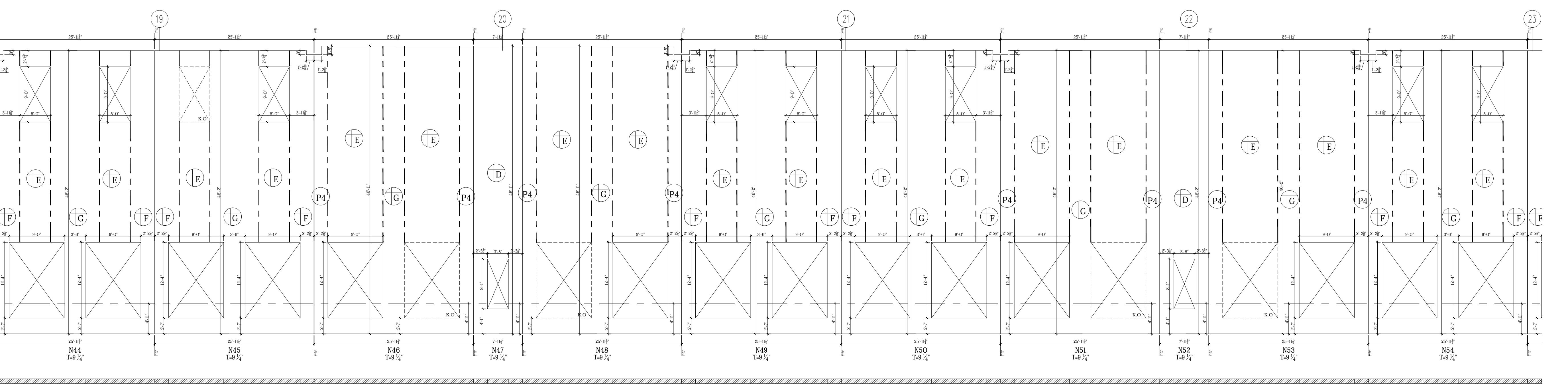
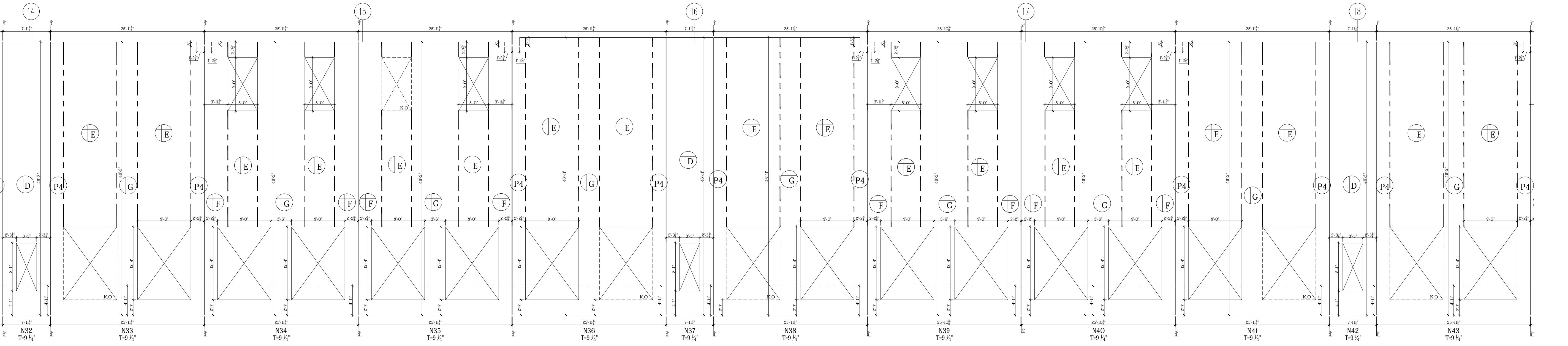
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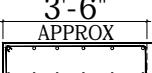
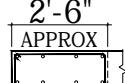
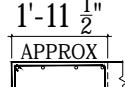
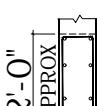
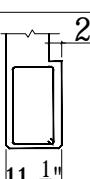
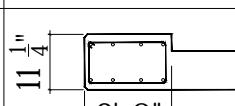
SHEET NUMBER

R1

MEMBER	TCA
DATE	01/19/19
DRAWN BY	R.A.
PROJ. NO.	190068
CHKD BY	J.M.
SHEET NUMBER	R1



R ADDITIONAL REINFORCING ON PANELS
REFER TO SHEET R8

PANEL LEG REINFORCING TABLE			
MARK	SECTION DIAGRAM	REINFORCING	
P1		(4) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C	
P2		(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C	
P3		(6) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C	
P4		(3) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O.C	
P5		(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT @ 7" O/C	
P6		(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT @ 6" O/C	THICKENED $11\frac{1}{4}$ "
P7		(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT @ 6" O/C	THICKENED $11\frac{1}{4}$ "

TYPICAL PANEL REINFORCING TABLE	
RK	REINFORCING
A	#5 VERTICAL BAR AT 10" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE.
B	#5 VERTICAL BAR AT 8" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE.
C	#5 VERTICAL BAR AT 6" O/C. #5 HORIZONTAL BAR AT 16" O/C.
D	#5 VERTICAL BAR AT 12" O/C. #5 HORIZONTAL BAR AT 16" O/C.
E	#5 VERTICAL BAR AT 8" O/C. #5 HORIZONTAL BAR AT 16" O/C.
F	#5 VERTICAL BAR AT 10" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
G	#5 VERTICAL BAR AT 6" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
H	#5 VERTICAL BAR AT 12" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
J	#5 VERTICAL BAR AT 10" O/C. #5 HORIZONTAL BAR AT 16" O/C.



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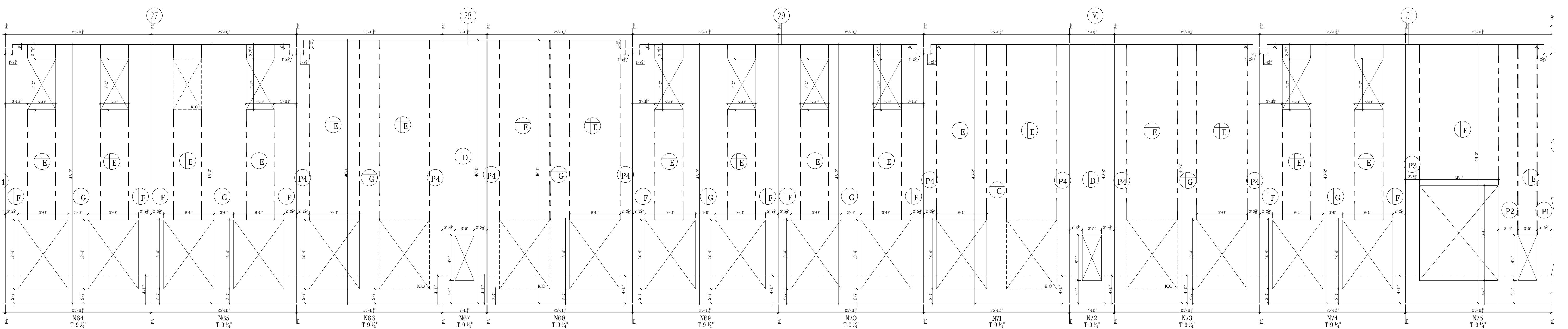
structural engineer
mittal.



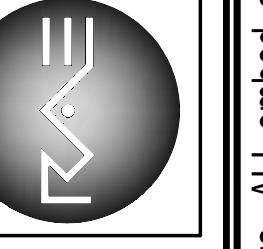
VALLEY VIEW

This drawing is intended merely as a supplement to the panel dimensions proposed in these drawings as liability is assumed by T&T Construction of Cen	
PROJECT	
 TCA [®] <small>TILT-UP CONCRETE ASSOCIATION</small>	
DATE	DRAWN BY
1/19/19	R,A
PROJ. NO.	CHK'D BY
90068	J,M
SHEET NUMBER	
R2	

2



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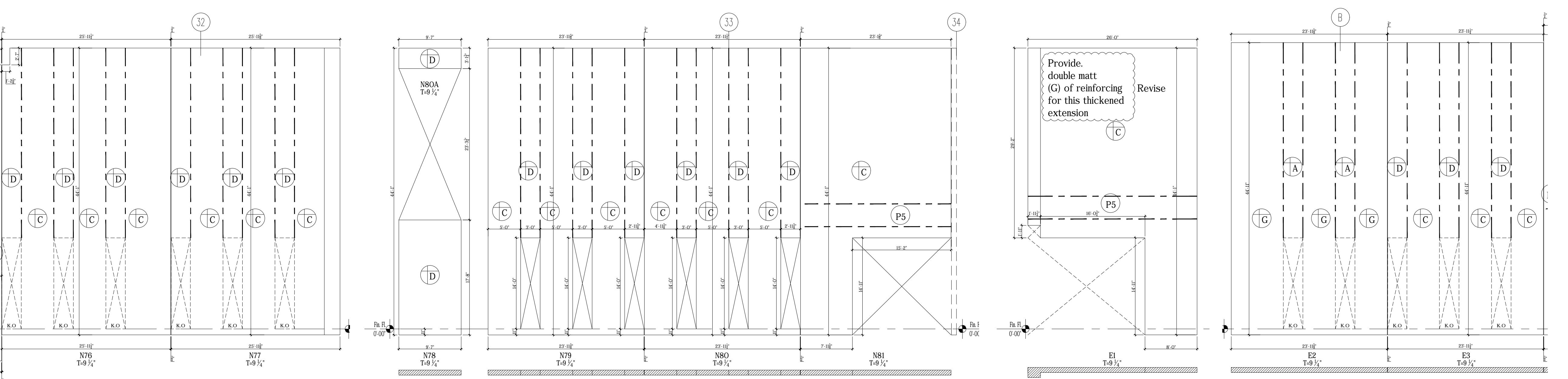


RICHARD ADAMS ENGINEER

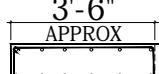
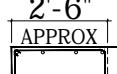
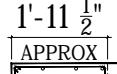
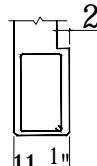
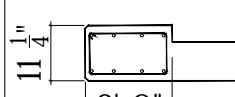
INTRODUCTION

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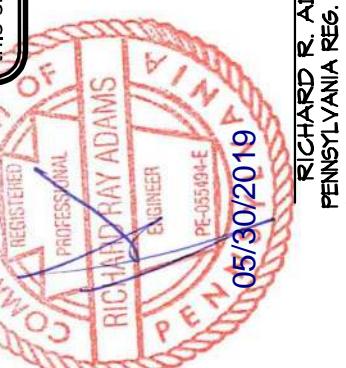


FOR ADDITIONAL REINFORCING ON PANELS
REFER TO SHEET R8

PANEL LEG REINFORCING TABLE			
MARK	SECTION DIAGRAM	REINFORCING	
P1		(4) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C	
P2		(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C	
P3		(6) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C	
P4		(3) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O.C	
P5		(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT @ 7" O/C	
P6		(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT @ 6" O/C	THICKENED $11\frac{1}{4}$ "
P7		(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT @ 6" O/C	THICKENED $11\frac{1}{4}$ "

TYPICAL PANEL REINFORCING TABLE	
MARK	REINFORCING
(A)	#5 VERTICAL BAR AT 10" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE.
(B)	#5 VERTICAL BAR AT 8" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE.
(C)	#5 VERTICAL BAR AT 6" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(D)	#5 VERTICAL BAR AT 12" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(E)	#5 VERTICAL BAR AT 8" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(F)	#5 VERTICAL BAR AT 10" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
(G)	#5 VERTICAL BAR AT 6" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
(H)	#5 VERTICAL BAR AT 12" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
(J)	#5 VERTICAL BAR AT 10" O/C. #5 HORIZONTAL BAR AT 16" O/C.

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g to increased energy consumption proposed in these drawings assumed by T&T Construction of



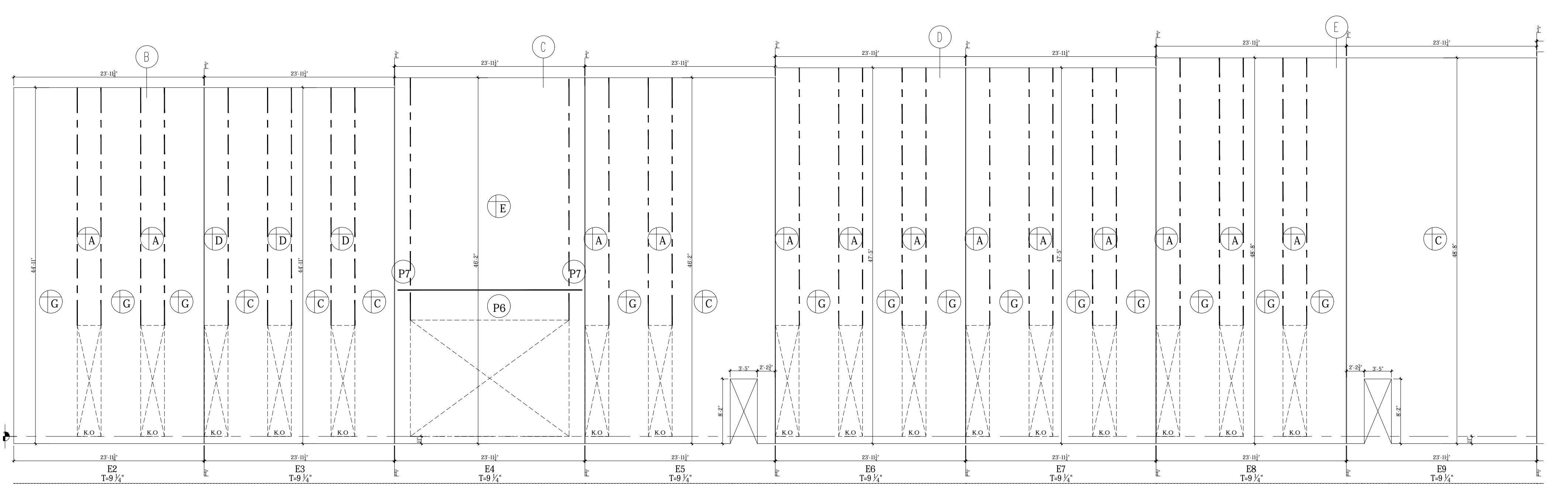
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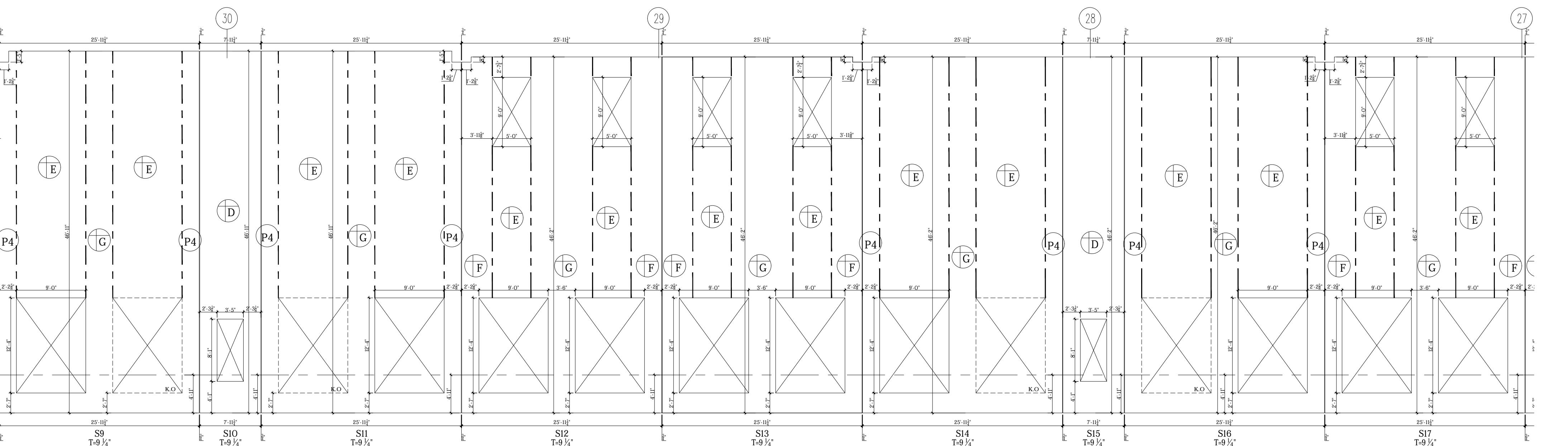
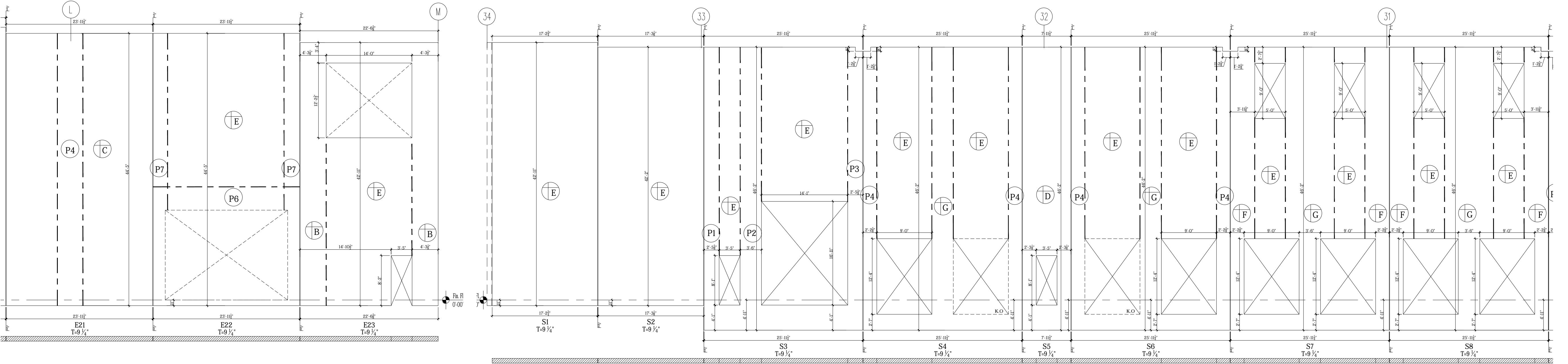
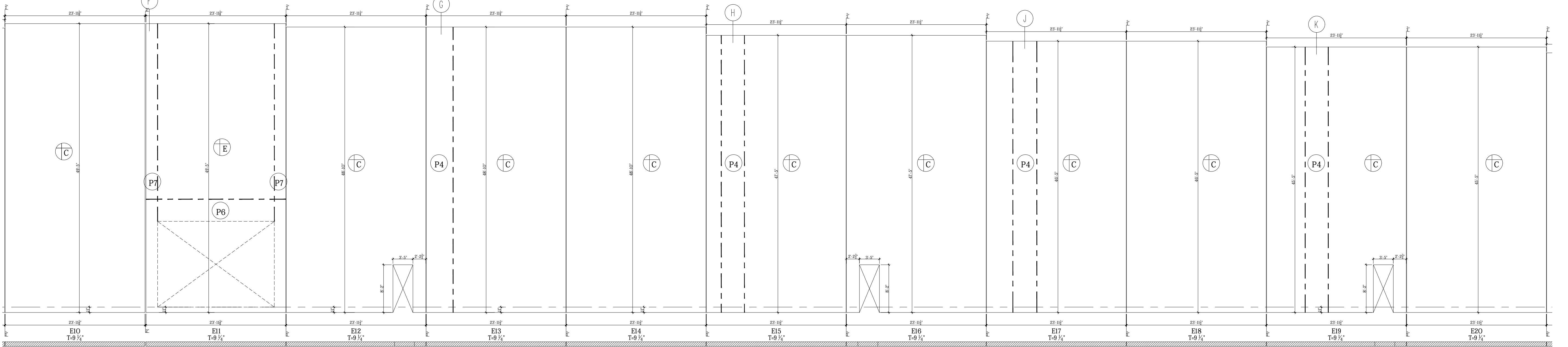
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DATE	DRA
1/19/19	R,

PROJ. NO.
90068

R3





FOR ADDITIONAL REINFORCING ON PANELS
REFER TO SHEET R8

PANEL LEG REINFORCING TABLE		
MARK	SECTION DIAGRAM	REINFORCING
(P1)	2'-6" APPROX	(4) #5 VERTICAL BARS EACH FACE W/#3 TIES AT 7' O/C
(P2)	3'-6" APPROX	(5) #7 VERTICAL BARS EACH FACE W/3 TIES AT 7' O/C
(P3)	2'-6" APPROX	(6) #5 VERTICAL BARS EACH FACE W/3 TIES AT 7' O/C
(P4)	1'-11 1/2" APPROX	(3) #5 VERTICAL BARS EACH FACE W/3 TIES AT 7' O/C
(P5)	2'-0" APPROX	(5) #5 HORIZ. BARS EACH FACE W/3 TIES AT 7' O/C
(P6)	2"-	(5) #5 HORIZ. BARS EACH FACE W/3 TIES AT 6' O/C
(P7)	11 1/2"- 2'-0" APPROX	(5) #7 VERTICAL BARS EACH FACE W/3 TIES AT 6' O/C

MARK	REINFORCING
(A)	#5 VERTICAL BAR AT 10' O/C. EACH FACE
(B)	#5 VERTICAL BAR AT 18' O/C. EACH FACE.
(C)	#5 VERTICAL BAR AT 6' O/C. EACH FACE
(D)	#5 VERTICAL BAR AT 12' O/C. EACH FACE
(E)	#5 VERTICAL BAR AT 8' O/C. EACH FACE
(F)	#5 VERTICAL BAR AT 16' O/C. EACH FACE
(G)	#5 VERTICAL BAR AT 12' O/C. EACH FACE
(H)	#5 VERTICAL BAR AT 16' O/C. EACH FACE
(I)	#5 VERTICAL BAR AT 10' O/C.
(J)	#5 VERTICAL BAR AT 16' O/C.

TYPICAL PANEL REINFORCING TABLE	
MARK	REINFORCING
(A)	#5 VERTICAL BAR AT 10' O/C. EACH FACE
(B)	#5 VERTICAL BAR AT 18' O/C. EACH FACE.
(C)	#5 VERTICAL BAR AT 6' O/C. EACH FACE
(D)	#5 VERTICAL BAR AT 12' O/C. EACH FACE
(E)	#5 VERTICAL BAR AT 8' O/C. EACH FACE
(F)	#5 VERTICAL BAR AT 16' O/C. EACH FACE
(G)	#5 VERTICAL BAR AT 12' O/C. EACH FACE
(H)	#5 VERTICAL BAR AT 16' O/C. EACH FACE
(I)	#5 VERTICAL BAR AT 10' O/C.
(J)	#5 VERTICAL BAR AT 16' O/C.

VALLEY VIEW
PROJECT
TCA
TILT UP CONCRETE ASSOCIATION

MEMBER	TCA
DATE	01/19/19
DRAWN BY	R.A.
PROJ. NO.	190068
CHKD BY	J.M.
SHEET NUMBER	R4

SHOP DRAWINGS BY: TILT.LAYOUTS@GMAIL.COM

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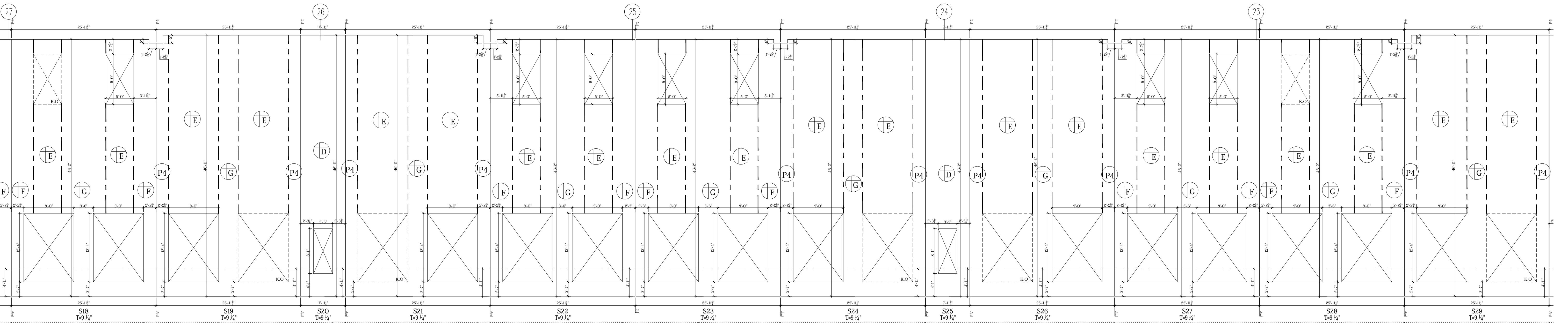
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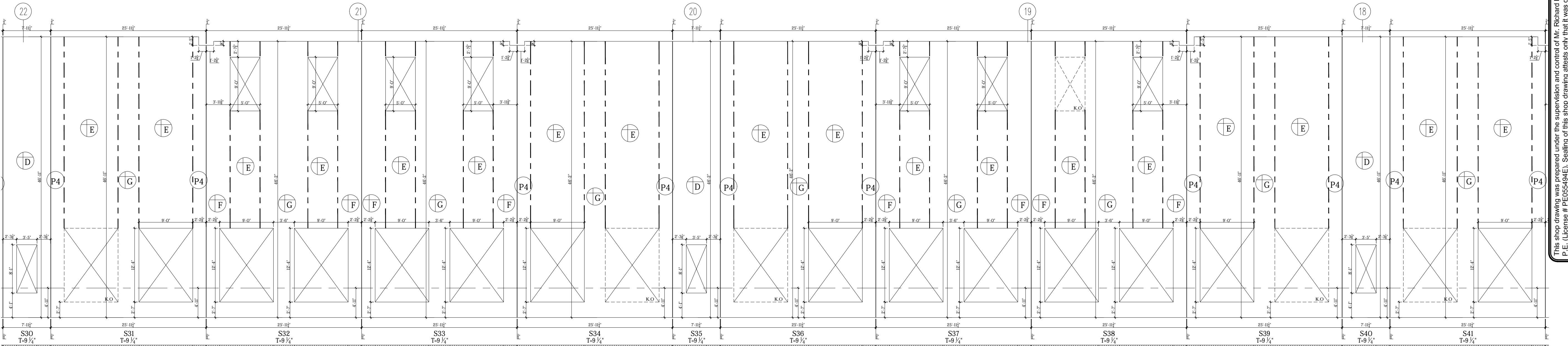
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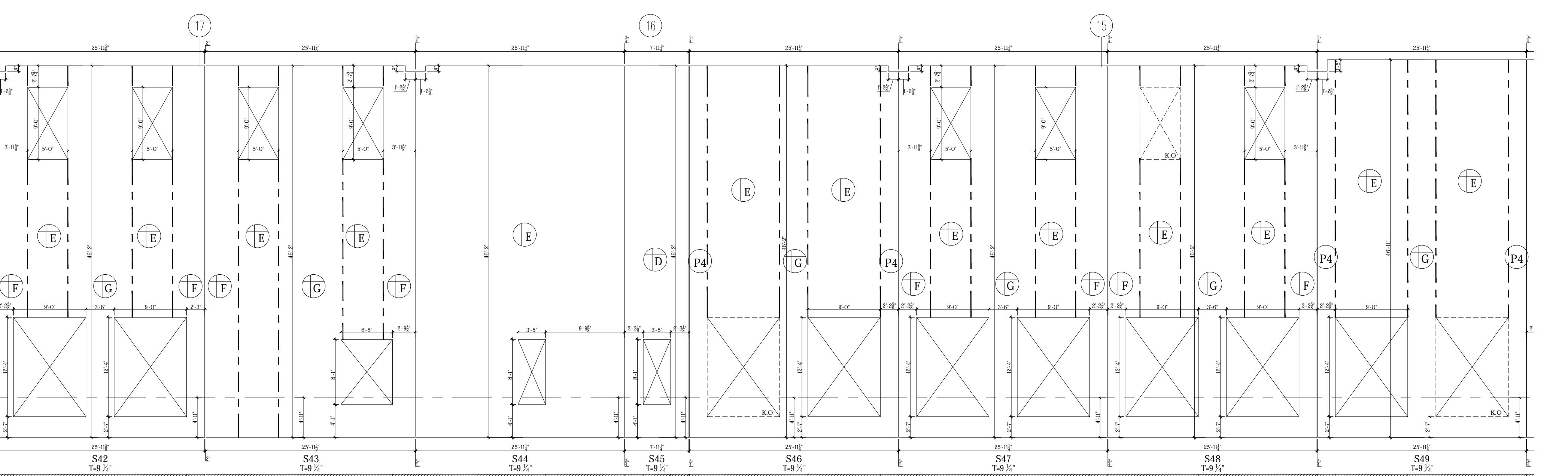
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FOR ADDITIONAL REINFORCING ON PANELS
REFER TO SHEET R8



TYPICAL PANEL REINFORCING TABLE		
MARK	SECTION DIAGRAM	REINFORCING
(P1)	2'-6" APPROX	(4) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C
(P2)	3'-6" APPROX	(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C
(P3)	2'-6" APPROX	(6) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C
(P4)	1'-11 1/2" APPROX	(3) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C
(P5)	2'-0" APPROX	(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT @ 7" O/C
(P6)	11 1/4"	(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT @ 6" O/C
(P7)	11 1/4" 2'-0" APPROX	(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT @ 6" O/C

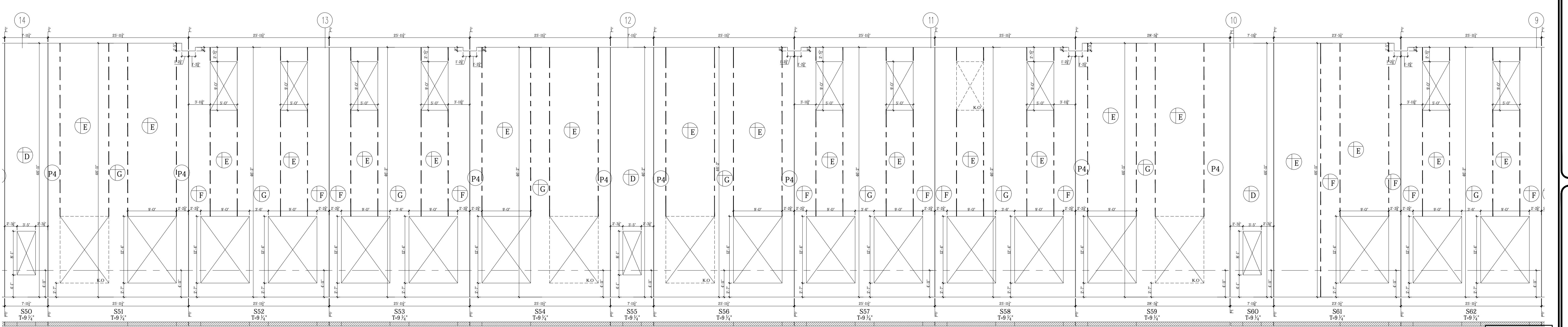
TYPICAL PANEL REINFORCING TABLE	
MARK	REINFORCING
(A)	#5 VERTICAL BAR AT 10" O/C. EACH FACE
(B)	#5 HORIZONTAL BAR AT 18" O/C. EACH FACE
(C)	#5 VERTICAL BAR AT 8" O/C. EACH FACE
(D)	#5 HORIZONTAL BAR AT 18" O/C. EACH FACE
(E)	#5 VERTICAL BAR AT 6" O/C.
(F)	#5 HORIZONTAL BAR AT 10" O/C.
(G)	#5 VERTICAL BAR AT 12" O/C.
(H)	#5 HORIZONTAL BAR AT 16" O/C.
(I)	#5 VERTICAL BAR AT 8" O/C.
(J)	#5 HORIZONTAL BAR AT 10" O/C.
	#5 VERTICAL BAR AT 10" O/C.
	#5 HORIZONTAL BAR AT 16" O/C.

VALLEY VIEW
PROJECT
MEMBER
TCA
TILT-UP CONCRETE ASSOCIATION

DATE 01/19/19	DRAWN BY R.A.
PROJ. NO. 190068	CHK'D BY J.M.
SHEET NUMBER R5	

SHOP DRAWINGS BY: TILT.LAYOUTS@GMAIL.COM

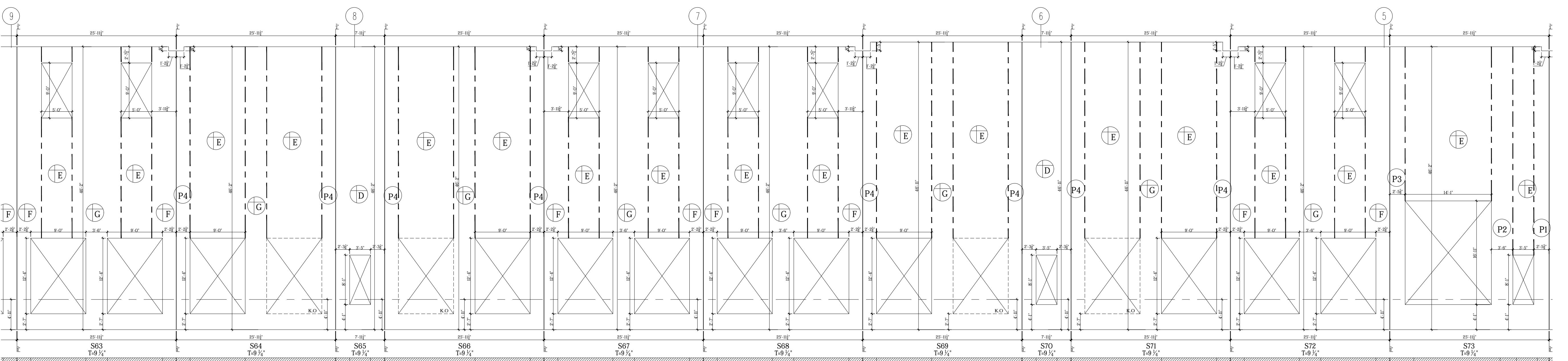
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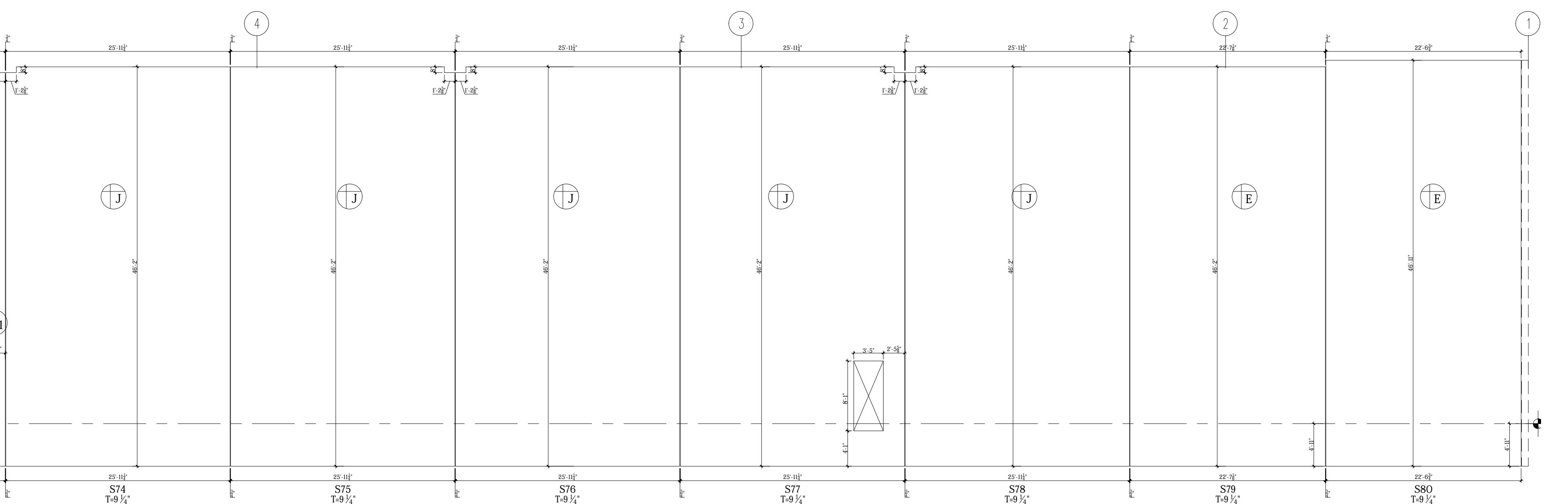
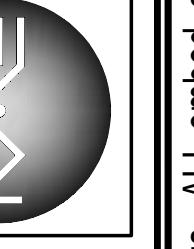
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FOR ADDITIONAL REINFORCING ON PANELS
REFER TO SHEET R8

PANEL LEG REINFORCING TABLE		
MARK	SECTION DIAGRAM	REINFORCING
(P1)	2'-6" APPROX	(4) #5 VERTICAL BARS EACH FACE W/3 TIES AT @ 7" O/C
(P2)	3'-6" APPROX	(5) #7 VERTICAL BARS EACH FACE W/3 TIES AT @ 7" O/C
(P3)	2'-6" APPROX	(6) #5 VERTICAL BARS EACH FACE W/3 TIES AT @ 7" O/C
(P4)	1'-11 1/2" APPROX	(3) #5 VERTICAL BARS EACH FACE W/3 TIES AT @ 7" O/C
(P5)	2'-0" APPROX	(5) #5 HORIZ. BARS EACH FACE W/3 TIES AT @ 7" O/C
(P6)	2"-	(5) #5 HORIZ. BARS EACH FACE W/3 TIES AT @ 6" O/C
(P7)	11 1/4"- 2'-0" APPROX	(5) #7 VERTICAL BARS EACH FACE W/3 TIES AT @ 6" O/C

TYPICAL PANEL REINFORCING TABLE	
MARK	REINFORCING
(A)	#5 VERTICAL BAR AT 10" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE
(B)	#5 VERTICAL BAR AT 8" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE
(C)	#5 VERTICAL BAR AT 6" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(D)	#5 VERTICAL BAR AT 12" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(E)	#5 VERTICAL BAR AT 8" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(F)	#5 VERTICAL BAR AT 10" O/C. EACH FACE #5 HORIZONTAL BAR AT 16" O/C. EACH FACE
(G)	#5 VERTICAL BAR AT 6" O/C. EACH FACE #5 HORIZONTAL BAR AT 16" O/C. EACH FACE
(H)	#5 VERTICAL BAR AT 12" O/C. EACH FACE #5 HORIZONTAL BAR AT 16" O/C. EACH FACE
(I)	#5 VERTICAL BAR AT 10" O/C. #5 HORIZONTAL BAR AT 16" O/C.

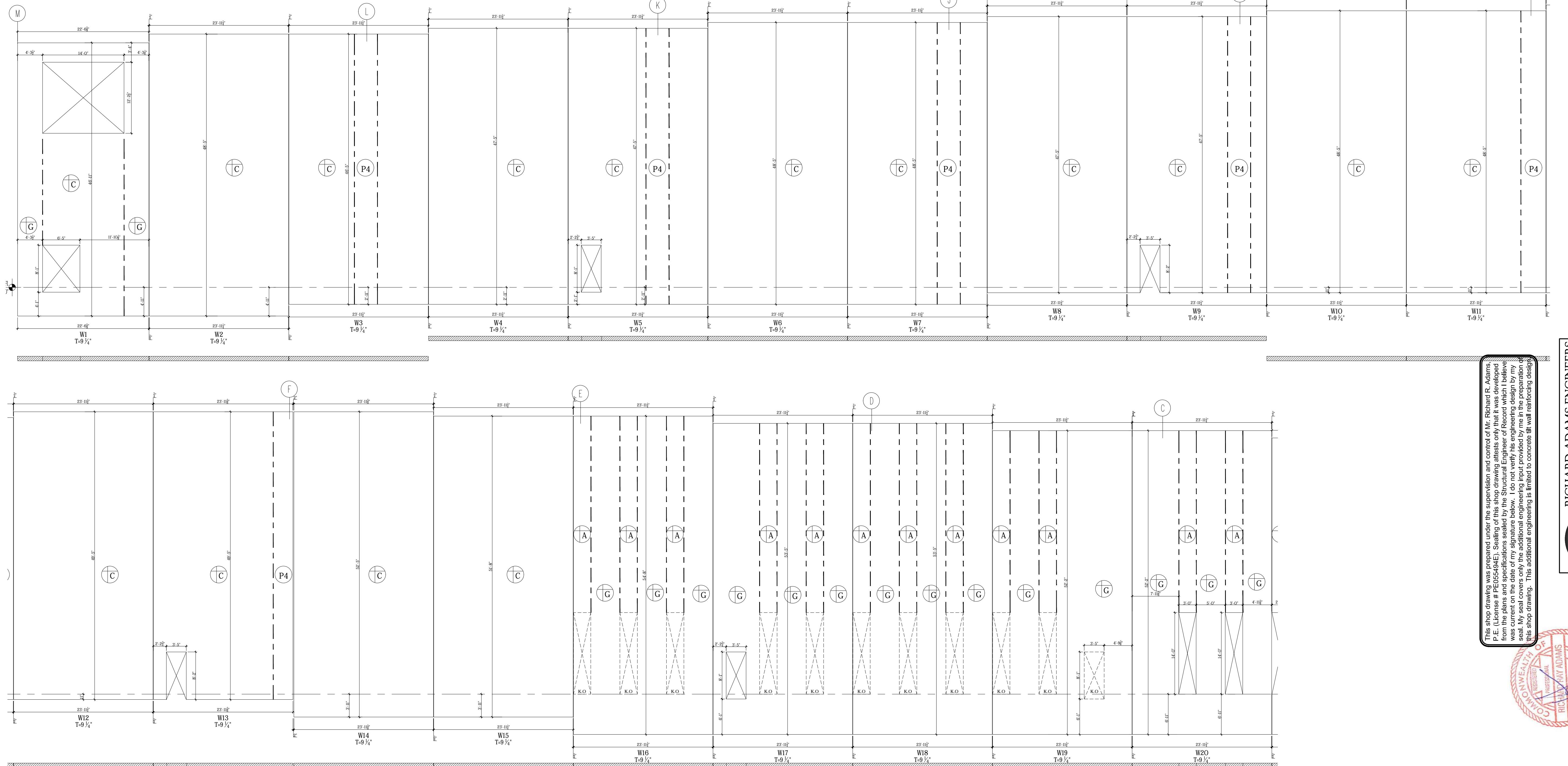
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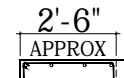
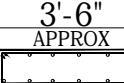
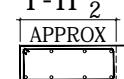
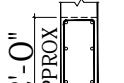
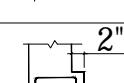
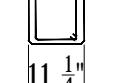


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190068
CHK'D BY
J.M.
SHEET NUMBER

R6

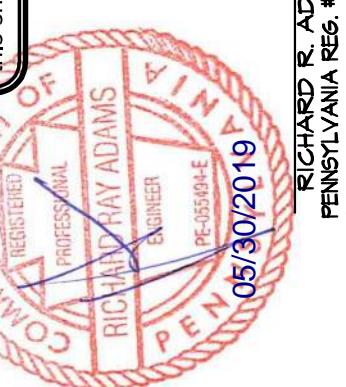


FOR ADDITIONAL REINFORCING ON PANELS
REFER TO SHEET R8

PANEL LEG REINFORCING TABLE		
MARK	SECTION DIAGRAM	REINFORCING
P1		(4) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C
P2		(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C
P3		(6) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O/C
P4		(3) #5 VERTICAL BARS EACH FACE W/#3 TIES AT @ 7" O.C
P5		(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT @ 7" O/C
P6		(5) #5 HORIZ. BARS EACH FACE W/#3 TIES AT @ 6" O/C
P7		(5) #7 VERTICAL BARS EACH FACE W/#3 TIES AT @ 6" O/C

TYPICAL PANEL REINFORCING TABLE	
MARK	REINFORCING
(A)	#5 VERTICAL BAR AT 10" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE.
(B)	#5 VERTICAL BAR AT 8" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE.
(C)	#5 VERTICAL BAR AT 6" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(D)	#5 VERTICAL BAR AT 12" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(E)	#5 VERTICAL BAR AT 8" O/C. #5 HORIZONTAL BAR AT 16" O/C.
(F)	#5 VERTICAL BAR AT 10" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
(G)	#5 VERTICAL BAR AT 6" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
(H)	#5 VERTICAL BAR AT 12" O/C. EACH FACE. #5 HORIZONTAL BAR AT 16" O/C. EACH FACE.
(J)	#5 VERTICAL BAR AT 10" O/C. #5 HORIZONTAL BAR AT 16" O/C.

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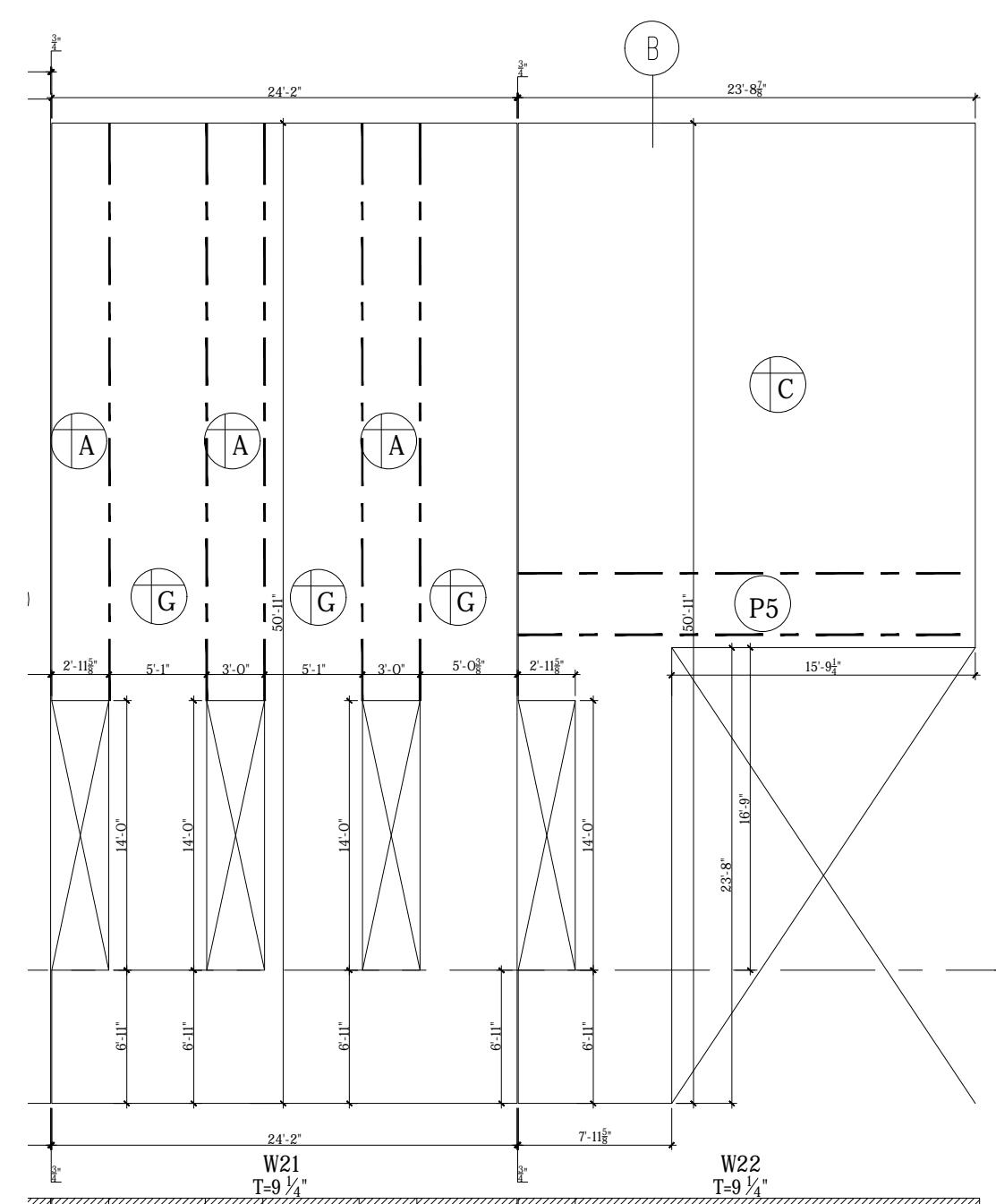


P.E. (License # PE055494E). Sealing of this shop drawing attests only that it was developed from the plans and specifications sealed by the Structural Engineer of Record which I believe was current on the date of my signature below. I do not verify his engineering design by my seal. My seal covers only the additional engineering input provided by me in the preparation of this shop drawing. This additional engineering is limited to concrete tilt wall reinforcing design.

pening, and engineer No

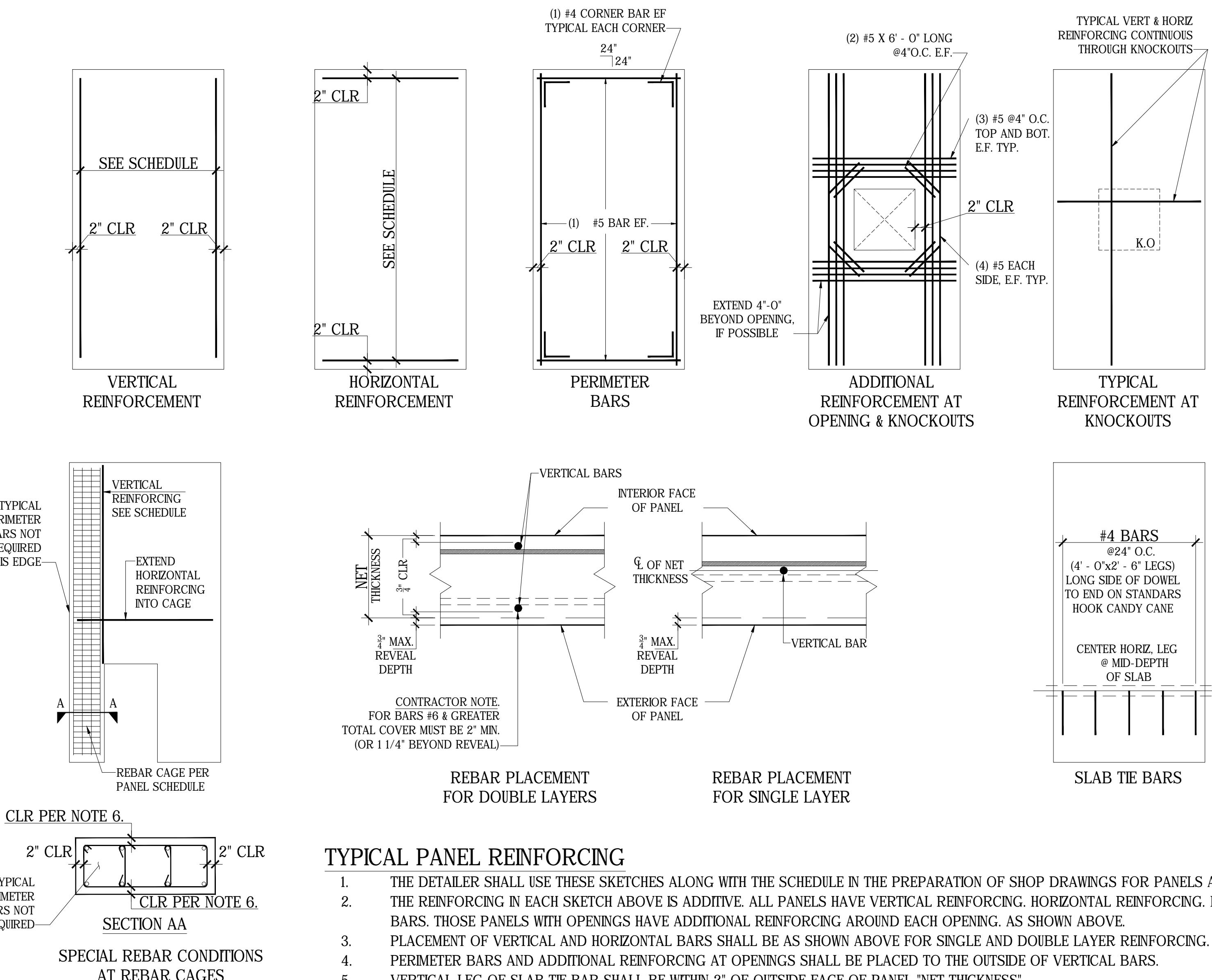
MINISTRY

VALLEY VIEW



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190068		J,M
SHEET NUMBER		
R7		

GENERAL TILT WALL PANEL REINFORCING



TYPICAL PANEL REINFORCING

- THE DETAILER SHALL USE THESE SKETCHES ALONG WITH THE SCHEDULE IN THE PREPARATION OF SHOP DRAWINGS FOR PANELS AND THEIR REINFORCING.
- THE REINFORCING IN EACH SKETCH ABOVE IS ADDITIVE. ALL PANELS HAVE VERTICAL REINFORCING, HORIZONTAL REINFORCING, PERIMETER BARS, AND SLAB TIE BARS. THOSE PANELS WITH OPENINGS HAVE ADDITIONAL REINFORCING AROUND EACH OPENING, AS SHOWN ABOVE.
- PLACEMENT OF VERTICAL AND HORIZONTAL BARS SHALL BE AS SHOWN ABOVE FOR SINGLE AND DOUBLE LAYER REINFORCING.
- PERIMETER BARS AND ADDITIONAL REINFORCING AT OPENINGS SHALL BE PLACED TO THE OUTSIDE OF VERTICAL BARS.
- VERTICAL LEG OF SLAB TIE BAR SHALL BE WITHIN 2" OF OUTSIDE FACE OF PANEL "NET THICKNESS".
- ALL REINFORCING SHALL HAVE AT LEAST $\frac{3}{4}$ " CLEAR COVER OF INTERIOR OF BUILDING & SHALL HAVE AT LEAST $1\frac{1}{2}$ " CLEAR FOR #5 BARS & SMALLER. (USE 2" COVER FOR #6 BARS & GREATER), TOARD EXTERIOR OF PANEL UNLESS NOTED OTHERWISE.
- FOR ADDITIONAL REINFORCING E.F. INSTALL BARS AT EACH FACE OF WALL "NO AT E.F. OF CENTER MAT".

FOR ADDITIONAL REINFORCING ON PANELS
REFER TO SHEET R8

PANEL LEG REINFORCING TABLE		
MARK	SECTION DIAGRAM	REINFORCING
(P1)	2'-6" APPROX	(4) #5 VERTICAL BARS EACH FACE W/3 TIES AT @ 7" O/C.
(P2)	3'-6" APPROX	(5) #7 VERTICAL BARS EACH FACE W/3 TIES AT @ 7" O/C.
(P3)	2'-6" APPROX	(6) #5 VERTICAL BARS EACH FACE W/3 TIES AT @ 7" O/C.
(P4)	1'-11 $\frac{1}{2}$ " APPROX	(3) #5 VERTICAL BARS EACH FACE W/3 TIES AT @ 7" O/C.
(P5)	2'-0" APPROX	(5) #5 HORIZ. BARS EACH FACE W/3 TIES AT @ 7" O/C.
(P6)	2"- 11 $\frac{1}{4}$ "	(5) #5 HORIZ. BARS EACH FACE W/3 TIES AT @ 6" O/C.
(P7)	2'-0" APPROX 11 $\frac{1}{4}$ "	(5) #7 VERTICAL BARS EACH FACE W/3 TIES AT @ 6" O/C.

TYPICAL PANEL REINFORCING TABLE	
MARK	REINFORCING
(A)	#5 VERTICAL BAR AT 10" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE
(B)	#5 VERTICAL BAR AT 8" O/C. EACH FACE #5 HORIZONTAL BAR AT 18" O/C. EACH FACE
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(G)	#5 VERTICAL BAR AT 6" O/C. EACH FACE #5 HORIZONTAL BAR AT 16" O/C. EACH FACE
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PROJECT

VALLEY VIEW



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CHK'D BY
J.M.

SHEET NUMBER

R8

GENERAL NOTES:

- The minimum reinforcement ratio is 0.0015
- Bar spacing cannot exceed 18 inches on center
- The centerline from face of panel to centerline of bar cannot exceed
 - 2.0625-inch on the outside (cast down) face
 - 1.3125-inch on the inside (cast up) face
- Ties, where shown, are for compression confinement of the steel and cannot be spaced further apart
 - Minimum tie bar diameter is 3/8-inch regardless of material grade
- Re-entrant corner bars should be minimum $\frac{1}{2}$ inch diameter regardless of material grade

RICHARD ADAMS ENGINEERS & CONSULTANTS, INC.
5307 E BUSCH BLVD TAMPA, FL 33617
MAIL@ADAMS-ENGINEERS.COM
PENNSYLVANIA REGISTRATION No. 023444



05/02/2019

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T&T
CONSTRUCTION

340 OLEANDER WAY,
CASSELBERRY, FL 32707
PHONE (407) 831-5506 FAX (407) 831-5531

This shop drawing was prepared under the supervision and control of Mr. Richard R. Adams P.E. (License # PE055494E). Sealing of this shop drawing attests that it was developed by the Structural Engineer of Record which I believe was current on the date of my signature below. I do not verify his engineering design by my seal. My seal covers only the additional engineering input provided by me in the preparation of this shop drawing. This additional engineering is limited to concrete tilt wall reinforcing design.