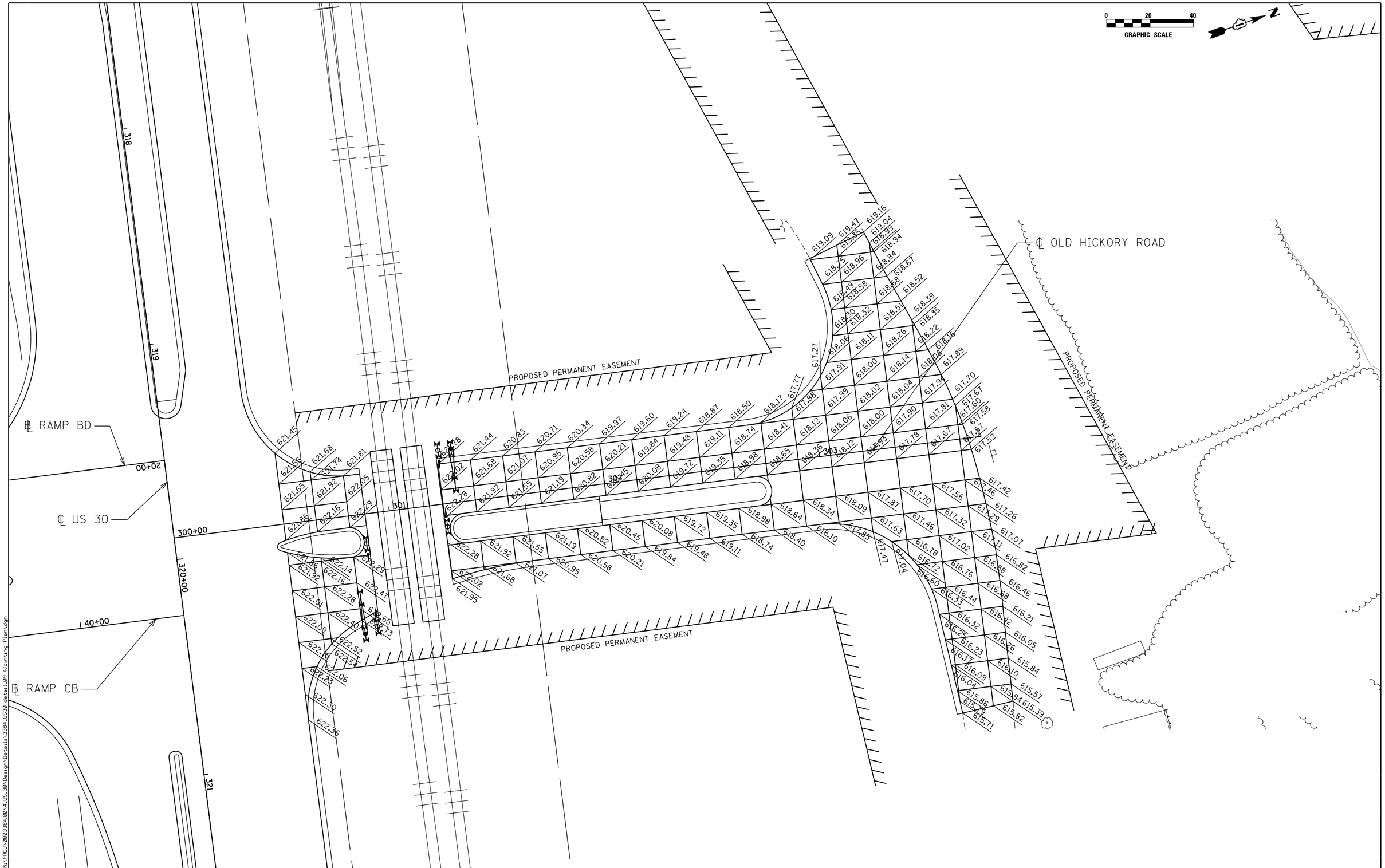

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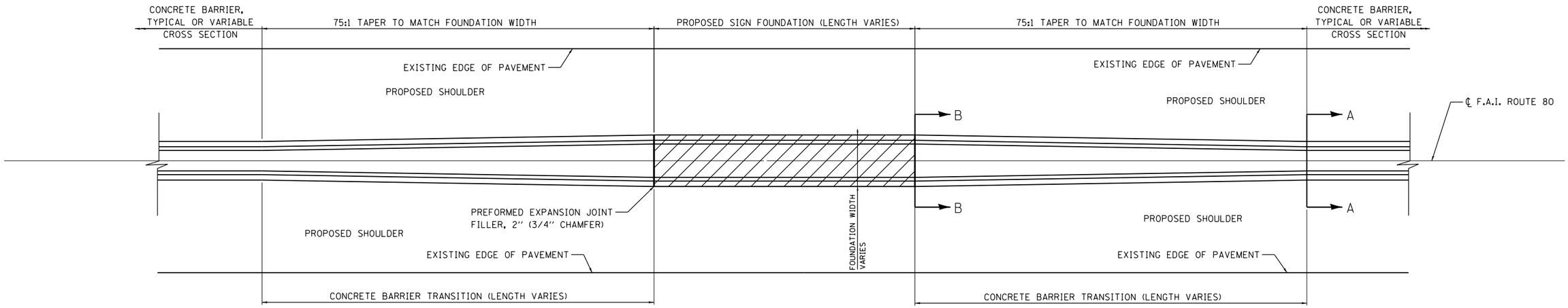
ENGINEERING CONSULTANT Clorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 E-mail: chicago@clorba.com	USER NAME = jattanaseo	DESIGNED - EPS	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
		DRAWN - NGT	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - DJO	REVISED -	
	PLOT DATE = 5/9/2018	DATE - 05/10/2018	REVISED -	

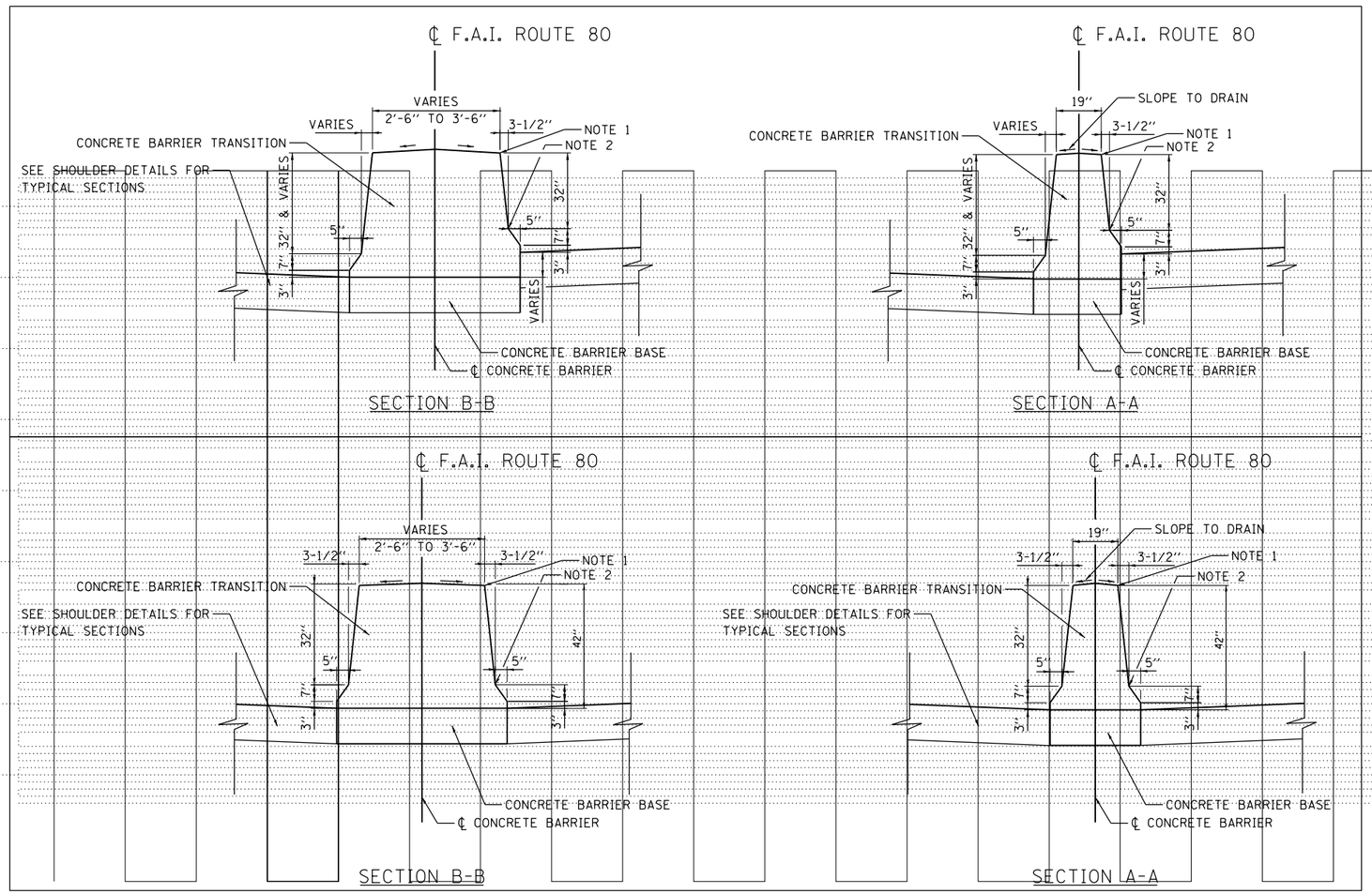
F.A.I. 80 / US 30 INTERCHANGE
OLD HICKORY ROAD JOINTING ELEVATION DETAIL

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	301
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			



CONCRETE BARRIER TRANSITION AT SIGN FOUNDATIONS



VARIABLE CROSS SECTION BARRIER WALL

STANDARD BARRIER WALL

GENERAL NOTES:

- SEE ROADWAY PLANS FOR EXACT TRANSITION DIMENSIONS.
- FURNISHING AND INSTALLING THE PREFORMED JOINT FILLER OF THE SIZE SPECIFIED SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION.
- FOR ADDITIONAL CONCRETE BARRIER DETAILS, SEE THE TYPICAL SECTIONS AND CONCRETE BARRIER DETAILS.
- FOR ADDITIONAL SHOULDER DETAILS, SEE THE TYPICAL SECTIONS.
- FOR FOUNDATION DIMENSIONS, SEE STRUCTURAL PLANS

NOTE 1 - 3/4" CHAMFER OR 1" RADIUS (OPTIONAL)

NOTE 2 - 10" RADIUS (OPTIONAL)

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ENGINEERING CONSULTANT
Clorba Group, Inc.
CONSULTING ENGINEERS
3507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4099 Fax 773.775.4014
Email chicago@clorba.com

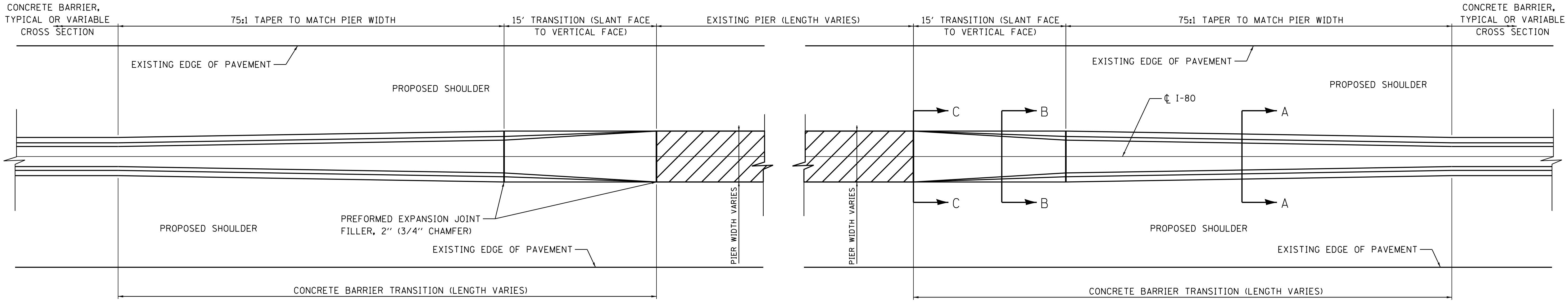
USER NAME = acrosley	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.00 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/9/2018	DATE - 05/10/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

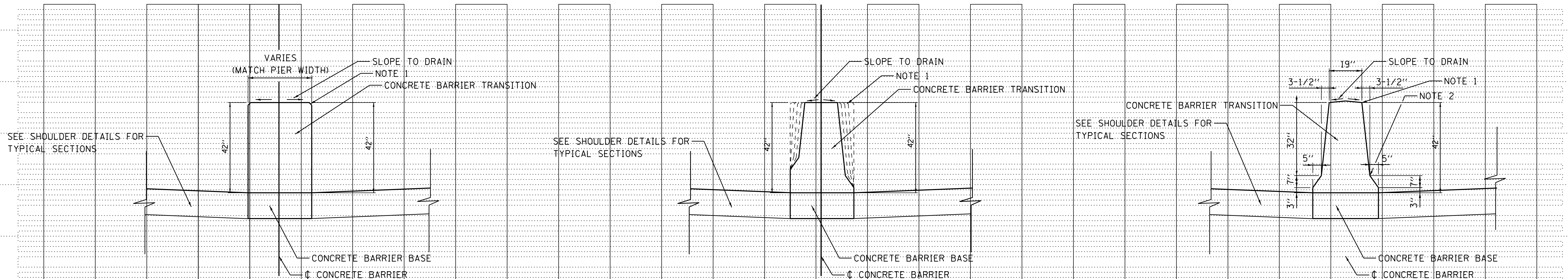
F.A.I. 80 /US 30 INTERCHANGE
BARRIER TRANSITION AT SIGN FOUNDATION DETAIL

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

80 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	302
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



CONCRETE BARRIER TRANSITION AT PARKER ROAD PLAN VIEW



SECTION C-C

SECTION B-B

SECTION A-A

NOTE 1 - 3/4" CHAMFER OR 1" RADIUS (OPTIONAL)

NOTE 2 - 10" RADIUS (OPTIONAL)

GENERAL NOTES:

- SEE ROADWAY PLANS FOR EXACT TRANSITION DIMENSIONS.
- FURNISHING AND INSTALLING THE PREFORMED JOINT FILLER OF THE SIZE SPECIFIED SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION.
- FOR ADDITIONAL CONCRETE BARRIER DETAILS, SEE THE TYPICAL SECTIONS AND CONCRETE BARRIER DETAILS.
- FOR ADDITIONAL SHOULDER DETAILS, SEE THE TYPICAL SECTIONS.

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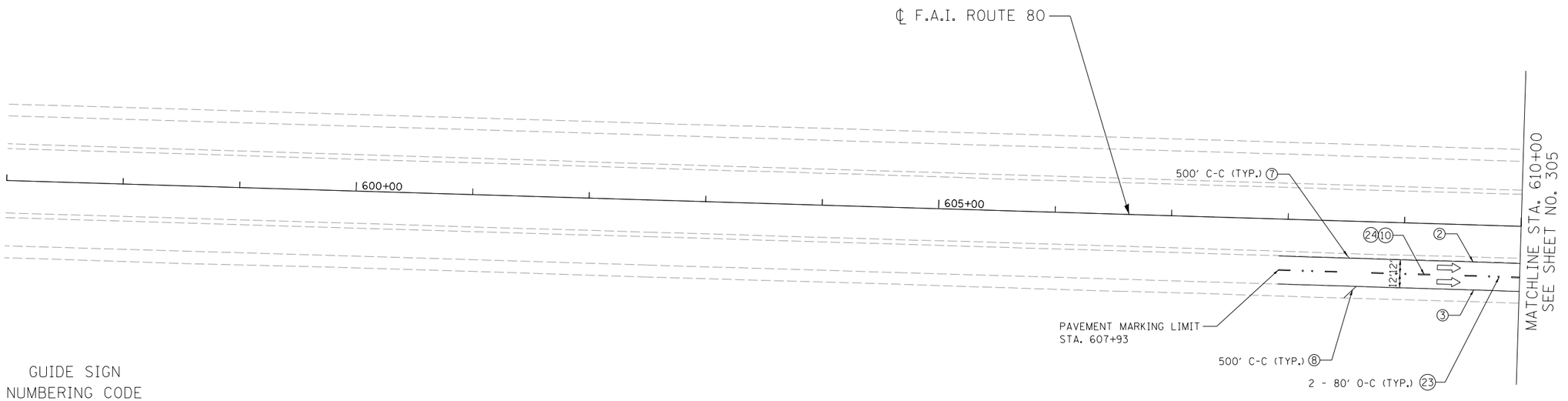
ENGINEERING CONSULTANT	USER NAME = acrosley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. 80 /US 30 INTERCHANGE CONCRETE BARRIER TRANSITION DETAIL	80 RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com		DRAWN -	REVISED -			80	99-4-1VB-1-R	WILL	840 / 303
	PLOT SCALE = 20.00 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 60N87	
	PLOT DATE = 5/9/2018	DATE - 05/10/2018	REVISED -		SCALE: N.T.S. / SHEET NO. OF SHEETS / STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	

LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)



GUIDE SIGN
NUMBERING CODE

EB-WP-47

DIRECTION OF TRAFFIC

EB - EASTBOUND
WB - WESTBOUND
NB - NORTHBOUND
SB - SOUTHBOUND

SIGN PANEL NUMBER

MOUNTING TYPE

OHC - OVERHEAD CANTILEVER
OHT - OVERHEAD TRUSS
BS - BREAKAWAY STEEL POSTS
WP - WOOD POSTS
TS - TELESCOPING STEEL POSTS
BM - BRIDGE MOUNTED
PM - POLE MOUNTED

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

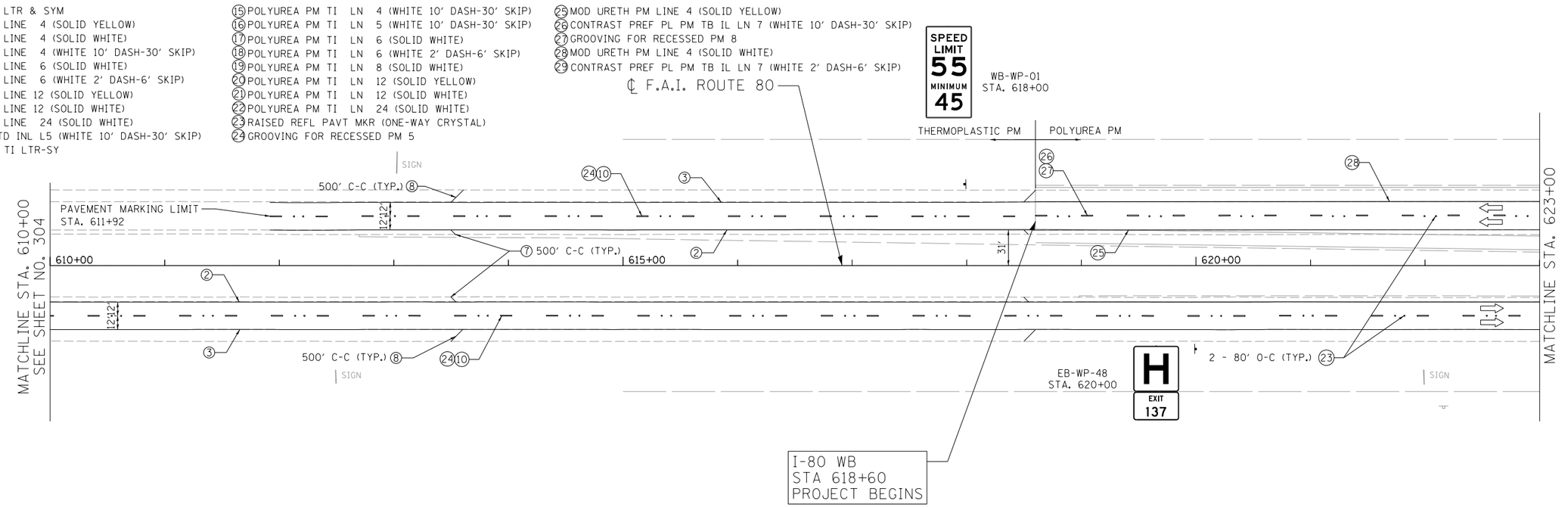
PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE

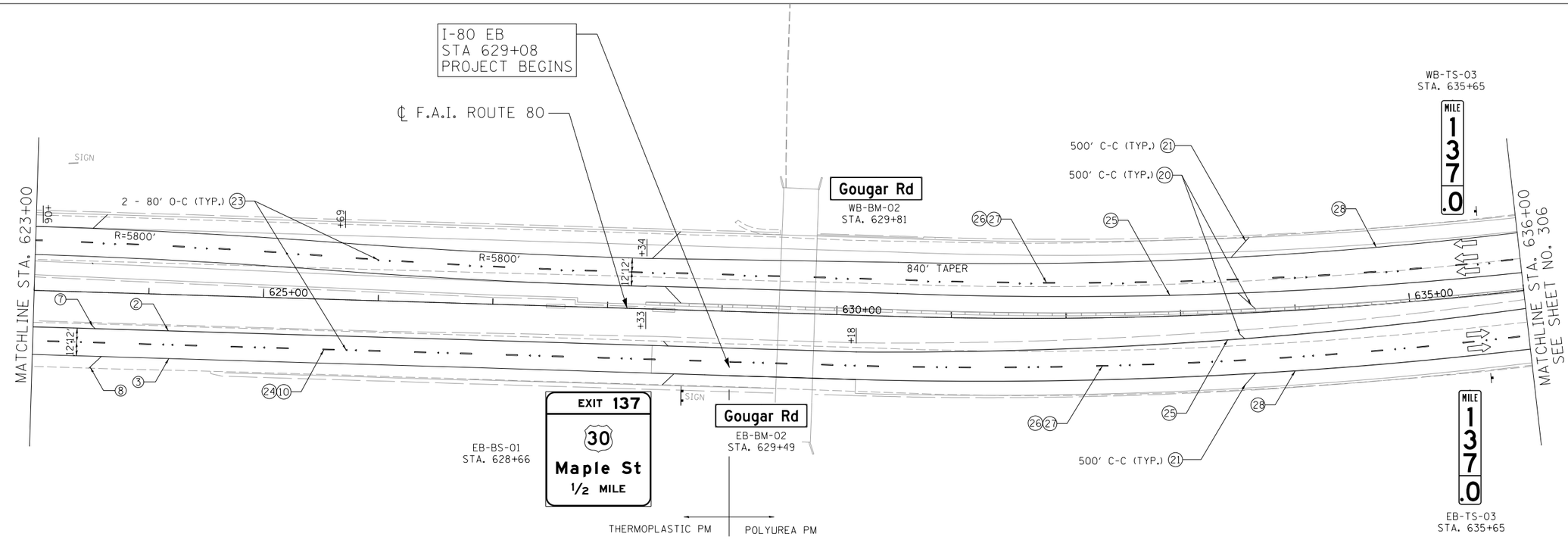
SCALE: 1"=50' | SHEET NO. 1 OF 14 SHEETS | STA. 607+93 TO STA. 610+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	304
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)



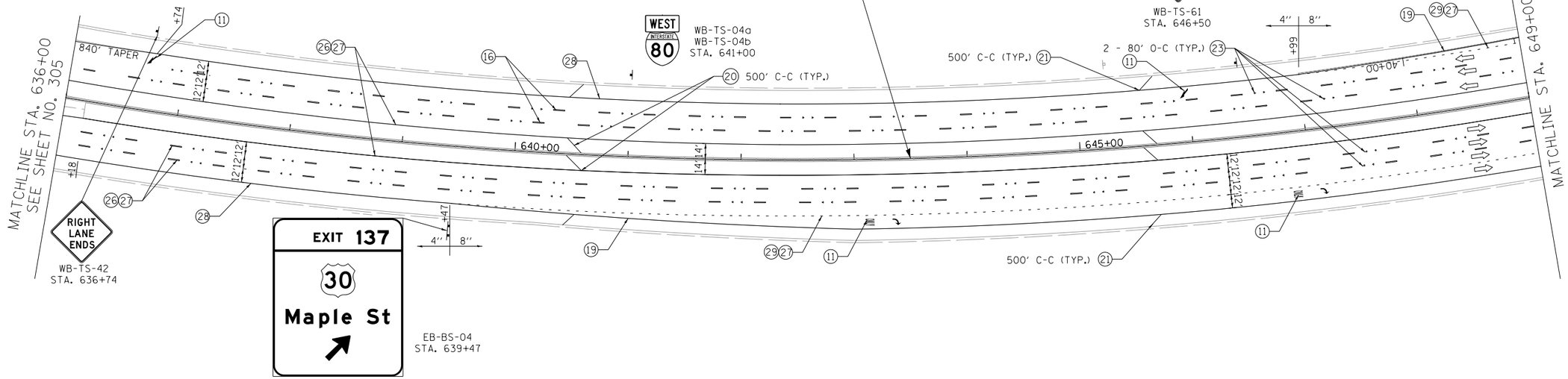


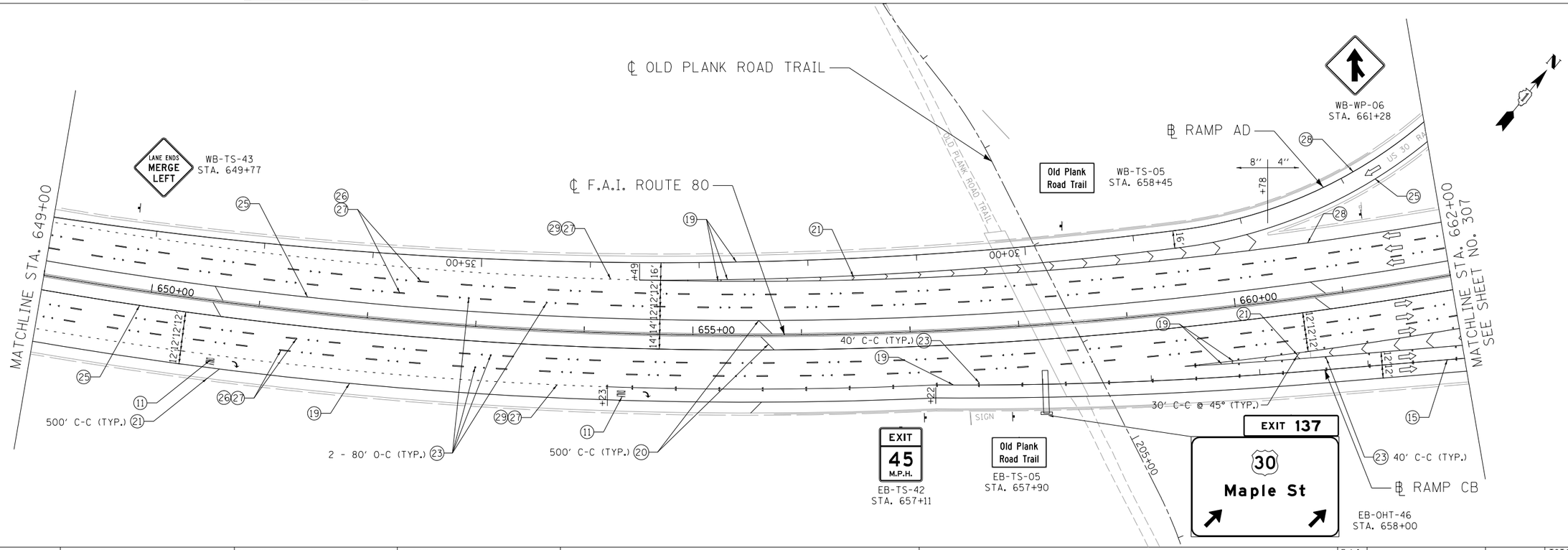
LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLANS F.A.I. 80 / US 30 INTERCHANGE
		DRAWN - IS	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -		SCALE: 1"=50' | SHEET NO. 2 OF 14 SHEETS | STA. 610+00 TO STA. 636+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	305
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)





LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
		DRAWN - IS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

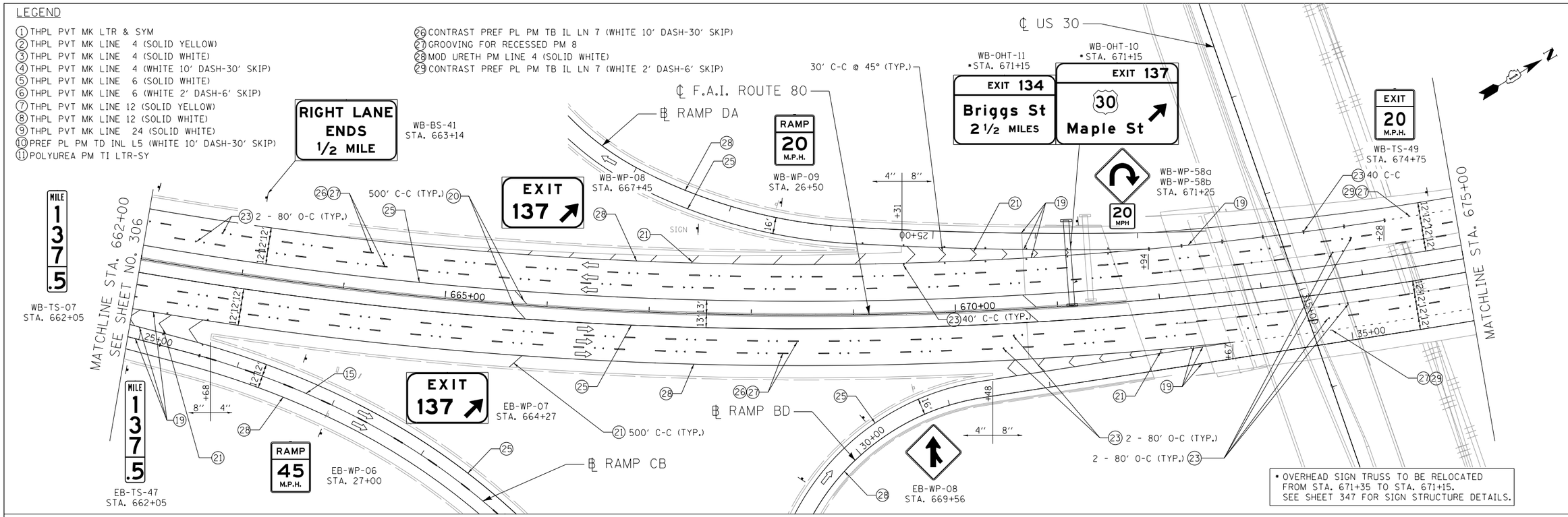
PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: 1"=50' | SHEET NO. 3 OF 14 SHEETS | STA. 636+00 TO STA. 662+00

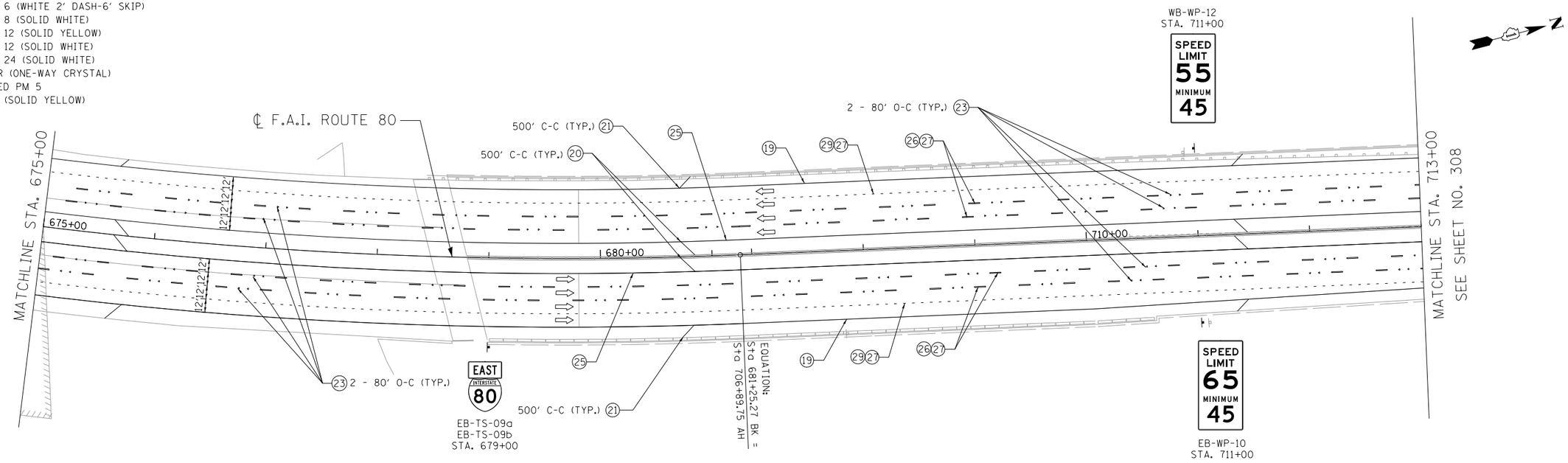
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	306
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)

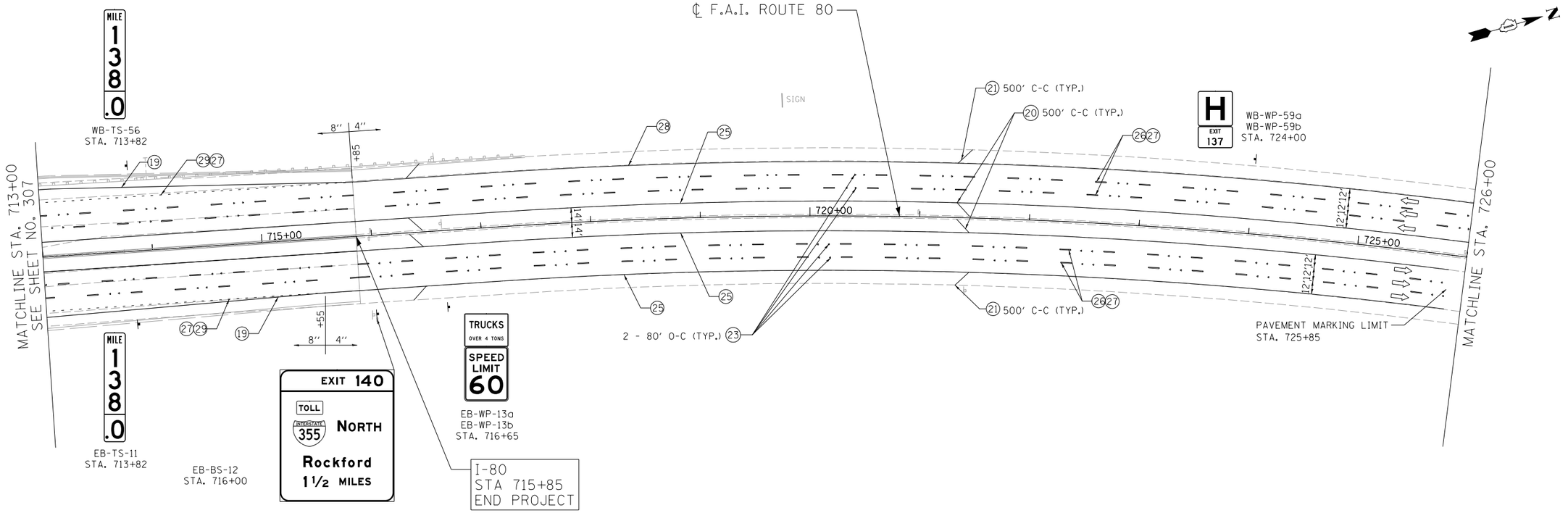


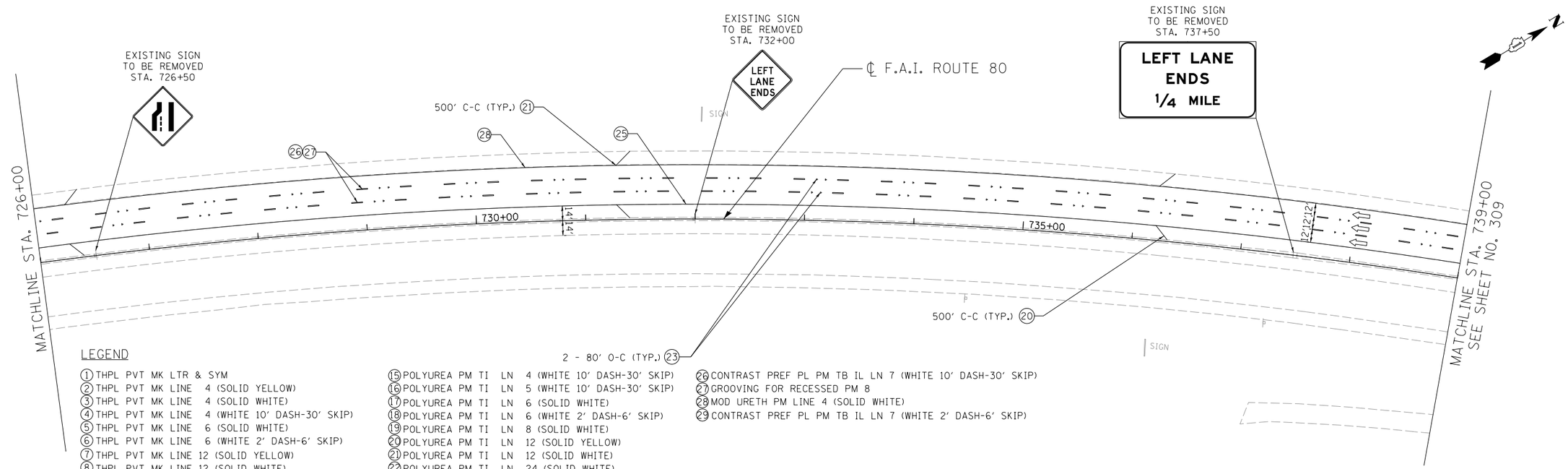
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)



LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLANS F.A.I. 80 / US 30 INTERCHANGE
		DRAWN - IS	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -		SCALE: 1"=50' | SHEET NO. 4 OF 14 SHEETS | STA. 662+00 TO STA. 713+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	307
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
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PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

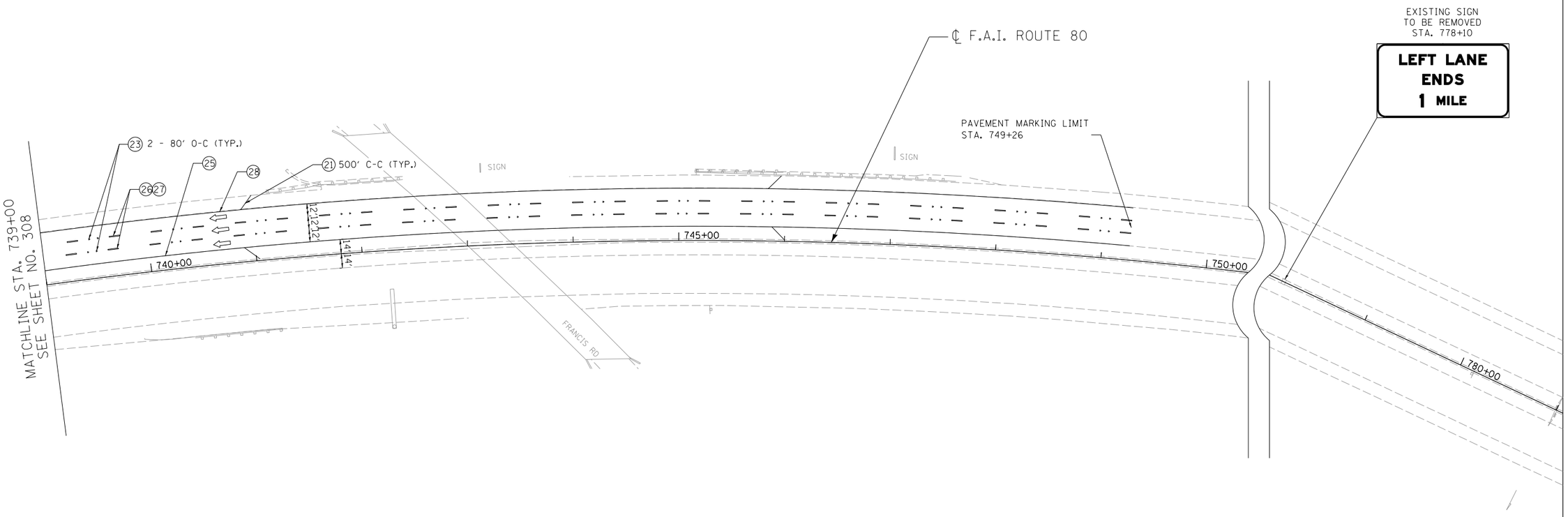
PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: 1"=50' | SHEET NO. 5 OF 14 SHEETS | STA. 713+00 TO STA. 739+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	308
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)



LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLANS F.A.I. 80 / US 30 INTERCHANGE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - IS	REVISED -			80	99-4-1VB-1-R	WILL	840	309
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -					CONTRACT NO. 60N87		
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -		SCALE: 1"=50' / SHEET NO. 6 OF 14 SHEETS / STA. 739+00 TO STA. 749+26	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)

SEE SHEET 313 FOR RAMP "DA" PAVEMENT MARKINGS.

℄ RAMP DA

℄ F.A.I. ROUTE 80

℄ US 30

WB-WP-50
STA. 17+27

℄ RAMP AD

MATCHLINE STA. 27+00

SEE SHEET 306 FOR I-80 PAVEMENT MARKINGS.

MATCHLINE STA. 27+00

℄ F.A.I. ROUTE 80

℄ RAMP AD

℄ OLD PLANK ROAD TRAIL

30' C-C ⌀ 45° (TYP.) (21)

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
		DRAWN - IS	REVISED -
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	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

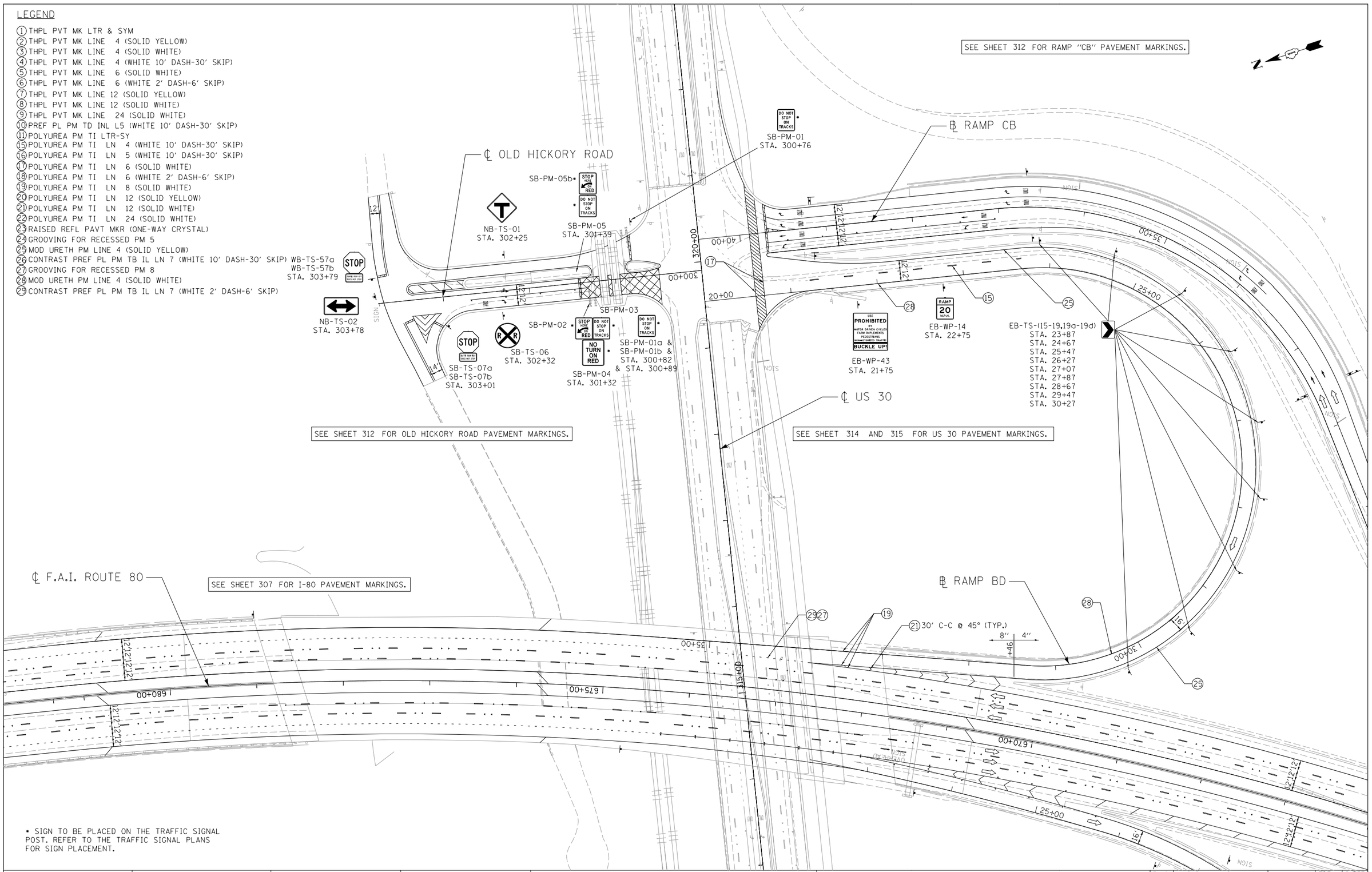
PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE – RAMP AD

SCALE: 1"=50' | SHEET NO. 7 OF 14 SHEETS | STA. 15+61 TO STA. 40+93

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	310
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)



• SIGN TO BE PLACED ON THE TRAFFIC SIGNAL POST. REFER TO THE TRAFFIC SIGNAL PLANS FOR SIGN PLACEMENT.

LIN ENGINEERING,LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

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	DRAWN - IS	REVISED -
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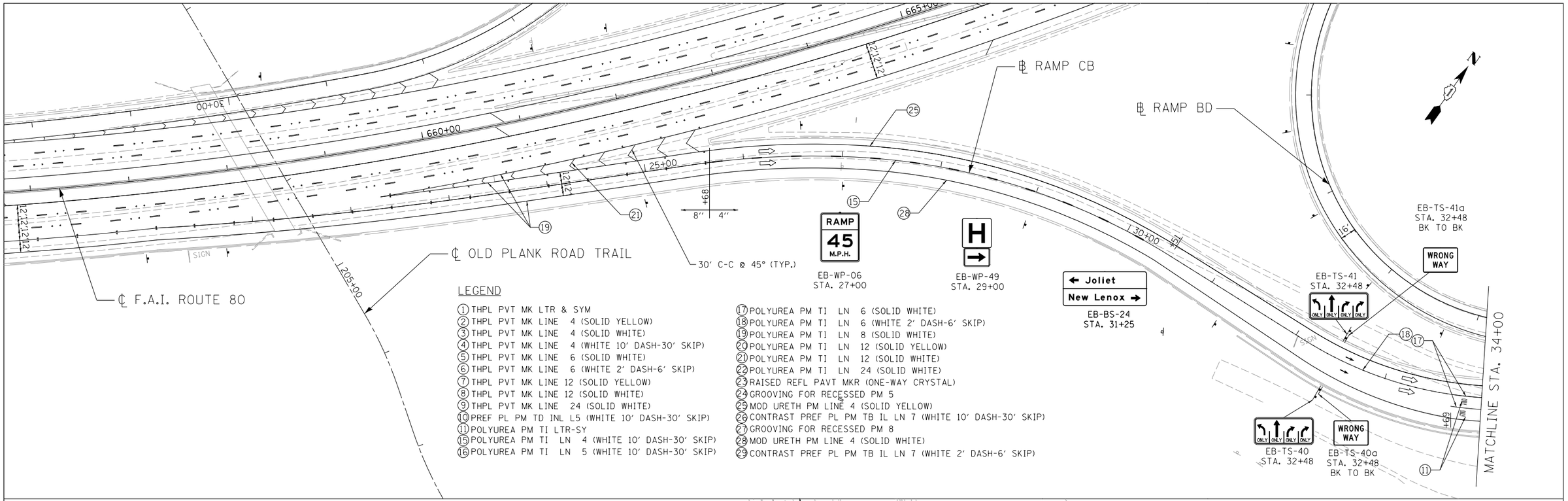
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE – RAMP BD

SCALE: 1''=50' | SHEET NO. 8 OF 14 SHEETS | STA. 20+00 TO STA. 35+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	311
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



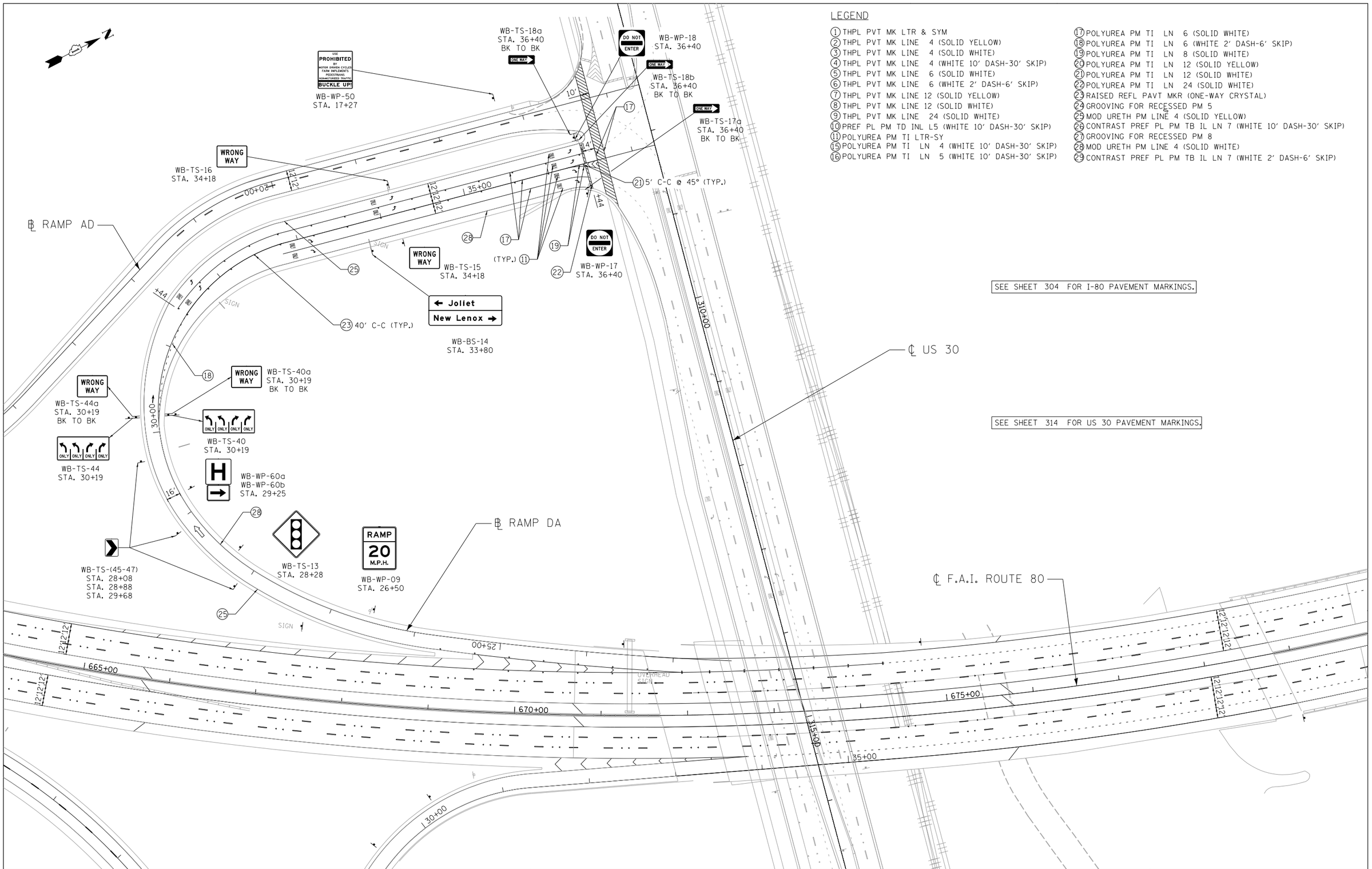
LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
		DRAWN - IS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE – RAMP CB

SCALE: 1''=50' | SHEET NO. 9 OF 14 SHEETS | STA. 20+00 TO STA. 40+48

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	312
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)

SEE SHEET 304 FOR I-80 PAVEMENT MARKINGS.

SEE SHEET 314 FOR US 30 PAVEMENT MARKINGS.

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

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PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

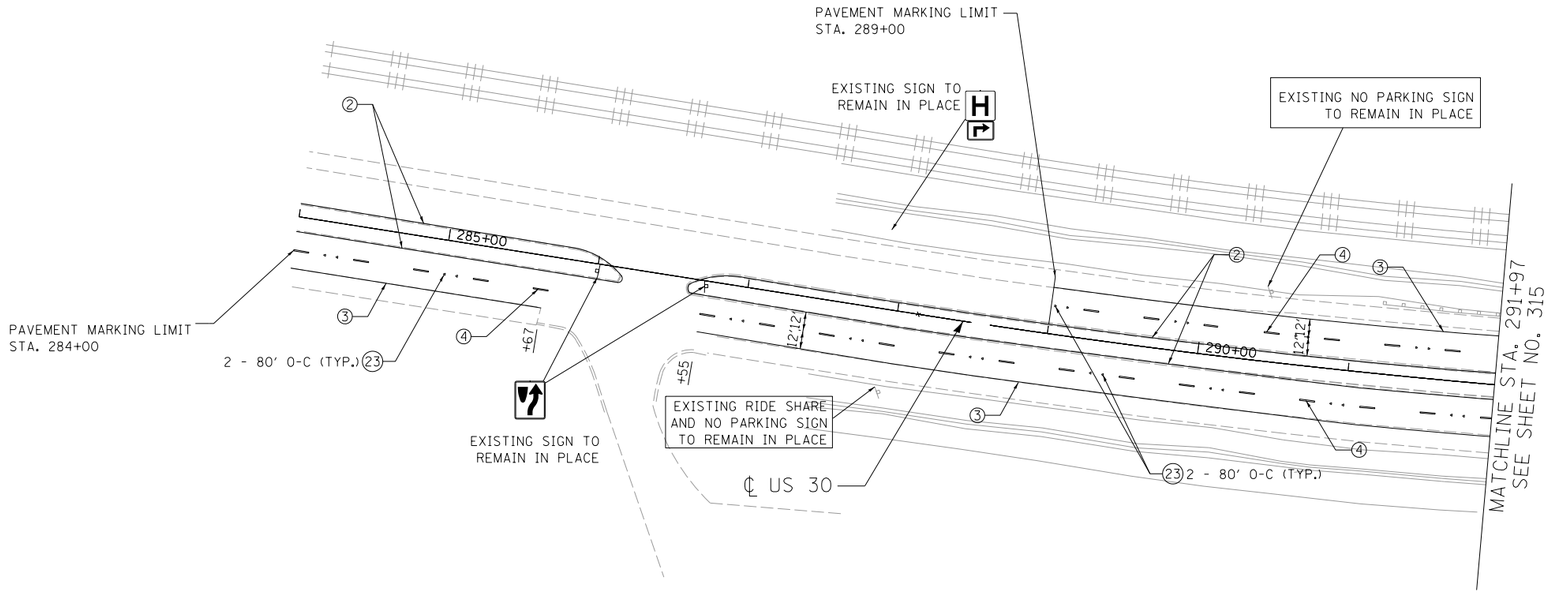
PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE – RAMP DA

SCALE: 1"=50' | SHEET NO. 10 OF 14 SHEETS | STA. 22+33 TO STA. 37+27

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	313
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

① THPL PVT MK LTR & SYM
② THPL PVT MK LINE 4 (SOLID YELLOW)
③ THPL PVT MK LINE 4 (SOLID WHITE)
④ THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
⑤ THPL PVT MK LINE 6 (SOLID WHITE)
⑥ THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
⑦ THPL PVT MK LINE 12 (SOLID YELLOW)
⑧ THPL PVT MK LINE 12 (SOLID WHITE)
⑨ THPL PVT MK LINE 24 (SOLID WHITE)
⑩ PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
⑪ POLYUREA PM TI LTR-SY
⑮ POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
⑯ POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
⑰ POLYUREA PM TI LN 6 (SOLID WHITE)
⑱ POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
⑲ POLYUREA PM TI LN 8 (SOLID WHITE)
⑳ POLYUREA PM TI LN 12 (SOLID YELLOW)
㉑ POLYUREA PM TI LN 12 (SOLID WHITE)
㉒ POLYUREA PM TI LN 24 (SOLID WHITE)
㉓ RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
㉔ GROOVING FOR RECESSED PM 5
㉕ MOD URETH PM LINE 4 (SOLID YELLOW)
㉖ CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
㉗ GROOVING FOR RECESSED PM 8
㉘ MOD URETH PM LINE 4 (SOLID WHITE)
㉙ CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)



NOTES:

1. INSTALL ALL PAVEMENT MARKINGS ACCORDING TO IDOT'S D1 DETAIL TC-13.
2. INSTALL ALL RAISED REFLECTIVE PAVEMENT MARKINGS ACCORDING TO IDOT'S D1 DETAIL TC-11.

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

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PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

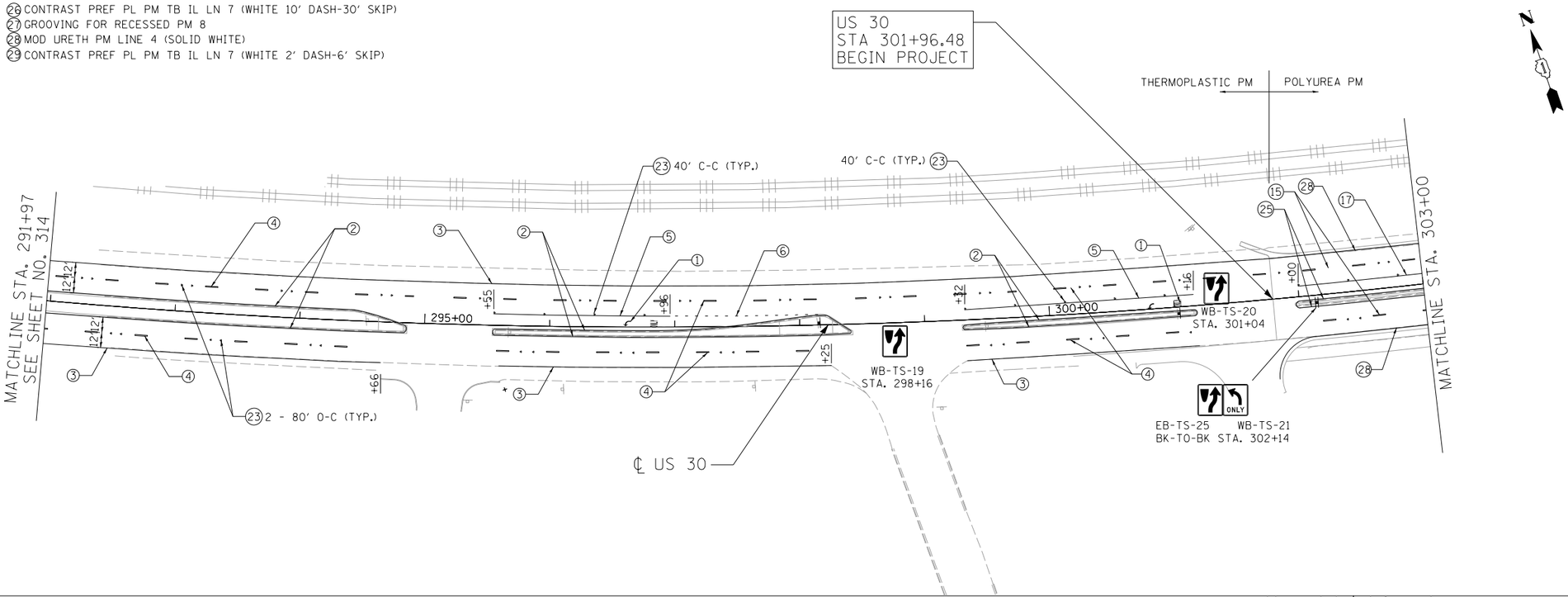
PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: 1"=50' | SHEET NO. 11 OF 14 SHEETS | STA. 284+00 TO STA. 291+97

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	314
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

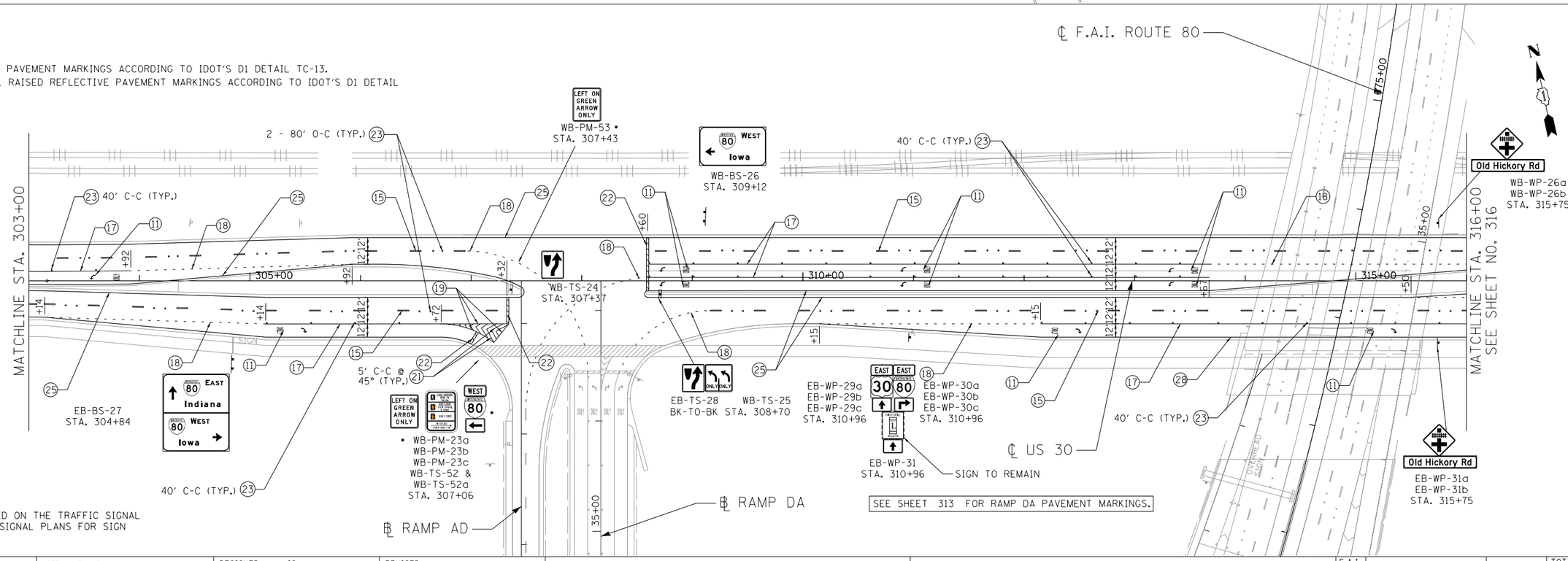
LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
15. POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5
25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)
29. CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)



NOTES:

1. INSTALL ALL PAVEMENT MARKINGS ACCORDING TO IDOT'S D1 DETAIL TC-13.
2. INSTALL ALL RAISED REFLECTIVE PAVEMENT MARKINGS ACCORDING TO IDOT'S D1 DETAIL TC-11.



• SIGN TO BE PLACED ON THE TRAFFIC SIGNAL POST. SEE TRAFFIC SIGNAL PLANS FOR SIGN PLACEMENT.

SEE SHEET 313 FOR RAMP DA PAVEMENT MARKINGS.

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

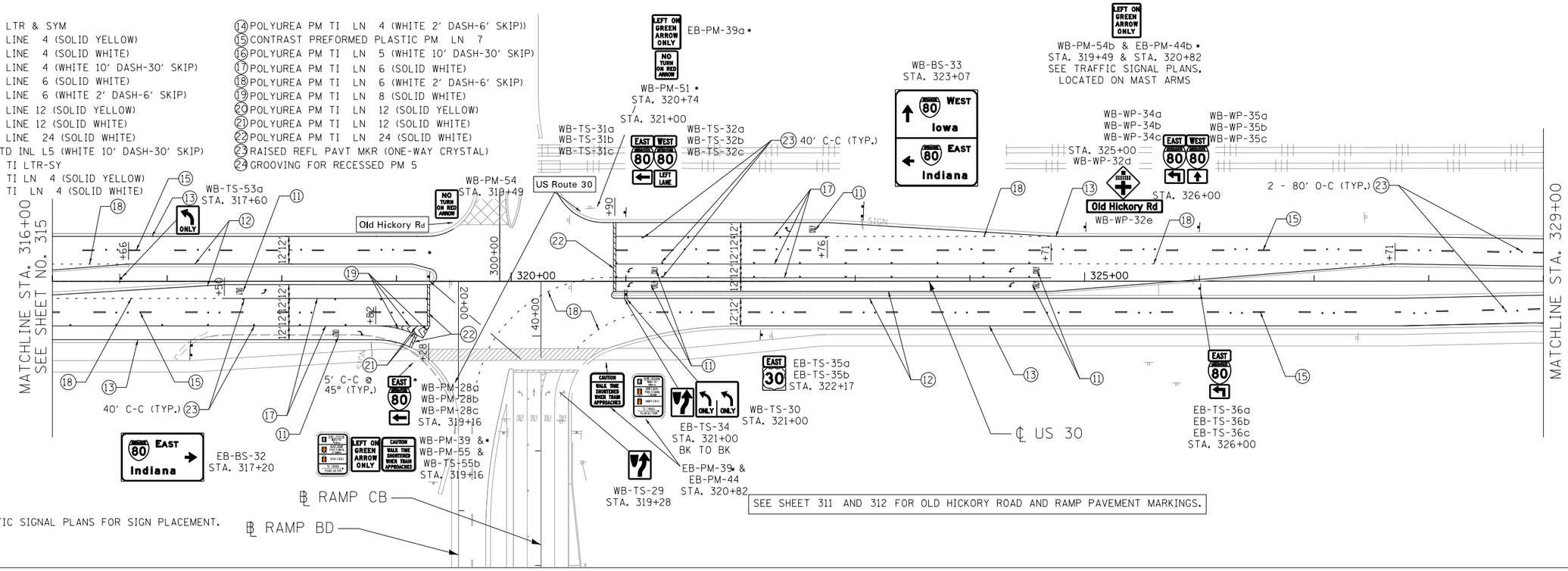
PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: 1"=50' | SHEET NO. 12 OF 14 SHEETS | STA. 291+97 TO STA. 316+00

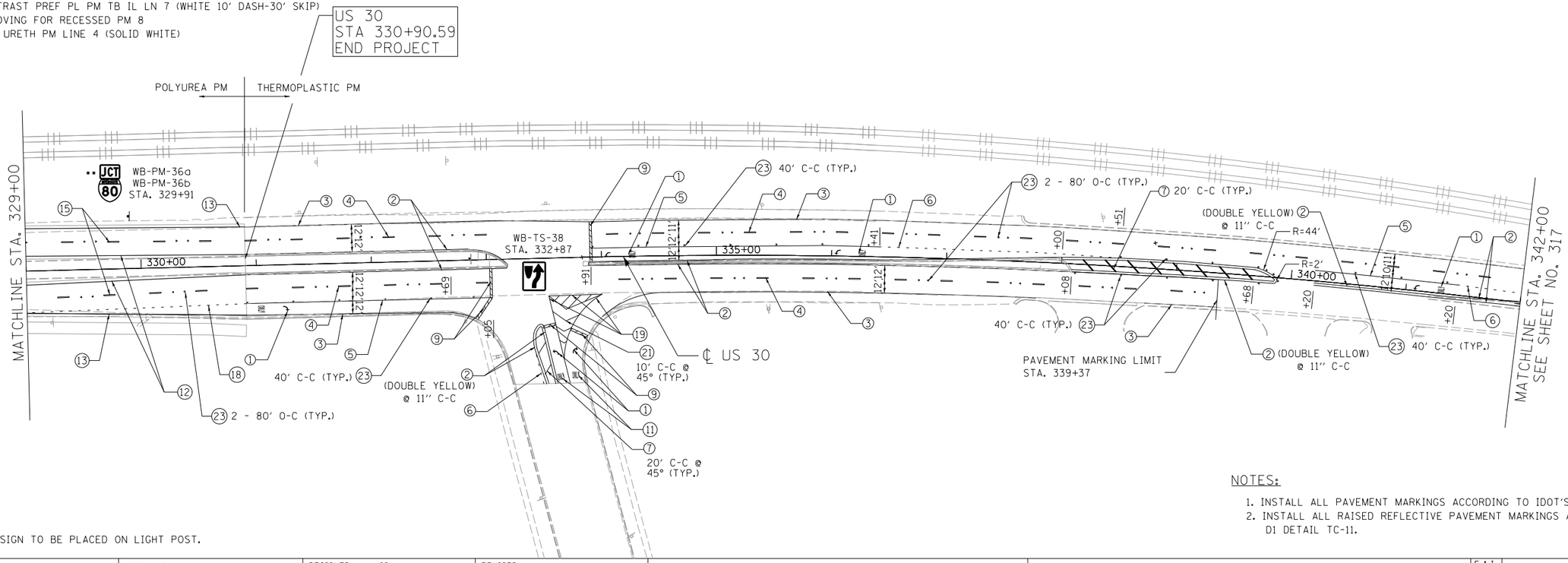
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	315
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

1. THPL PVT MK LTR & SYM
2. THPL PVT MK LINE 4 (SOLID YELLOW)
3. THPL PVT MK LINE 4 (SOLID WHITE)
4. THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
5. THPL PVT MK LINE 6 (SOLID WHITE)
6. THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
7. THPL PVT MK LINE 12 (SOLID YELLOW)
8. THPL PVT MK LINE 12 (SOLID WHITE)
9. THPL PVT MK LINE 24 (SOLID WHITE)
10. PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
11. POLYUREA PM TI LTR-SY
12. POLYUREA PM TI LN 4 (SOLID YELLOW)
13. POLYUREA PM TI LN 4 (SOLID WHITE)
14. POLYUREA PM TI LN 4 (WHITE 2' DASH-6' SKIP))
15. CONTRAST PREFORMED PLASTIC PM LN 7
16. POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
17. POLYUREA PM TI LN 6 (SOLID WHITE)
18. POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
19. POLYUREA PM TI LN 8 (SOLID WHITE)
20. POLYUREA PM TI LN 12 (SOLID YELLOW)
21. POLYUREA PM TI LN 12 (SOLID WHITE)
22. POLYUREA PM TI LN 24 (SOLID WHITE)
23. RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
24. GROOVING FOR RECESSED PM 5



25. MOD URETH PM LINE 4 (SOLID YELLOW)
26. CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
27. GROOVING FOR RECESSED PM 8
28. MOD URETH PM LINE 4 (SOLID WHITE)



•• SIGN TO BE PLACED ON LIGHT POST.

NOTES:

1. INSTALL ALL PAVEMENT MARKINGS ACCORDING TO IDOT'S D1 DETAIL TC-13.
2. INSTALL ALL RAISED REFLECTIVE PAVEMENT MARKINGS ACCORDING TO IDOT'S D1 DETAIL TC-11.

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

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PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLANS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: 1''=50' | SHEET NO. 13 OF 14 SHEETS | STA. 316+00 TO STA. 342+00

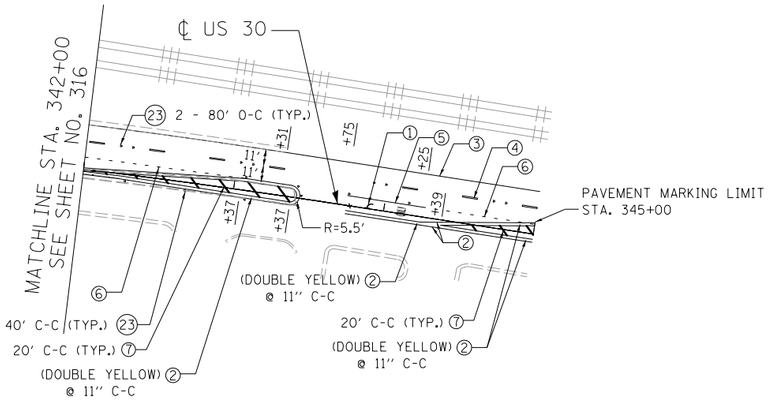
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	316
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

① THPL PVT MK LTR & SYM
② THPL PVT MK LINE 4 (SOLID YELLOW)
③ THPL PVT MK LINE 4 (SOLID WHITE)
④ THPL PVT MK LINE 4 (WHITE 10' DASH-30' SKIP)
⑤ THPL PVT MK LINE 6 (SOLID WHITE)
⑥ THPL PVT MK LINE 6 (WHITE 2' DASH-6' SKIP)
⑦ THPL PVT MK LINE 12 (SOLID YELLOW)
⑧ THPL PVT MK LINE 12 (SOLID WHITE)
⑨ THPL PVT MK LINE 24 (SOLID WHITE)
⑩ PREF PL PM TD INL L5 (WHITE 10' DASH-30' SKIP)
⑪ POLYUREA PM TI LTR-SY
⑮ POLYUREA PM TI LN 4 (WHITE 10' DASH-30' SKIP)
⑯ POLYUREA PM TI LN 5 (WHITE 10' DASH-30' SKIP)
⑰ POLYUREA PM TI LN 6 (SOLID WHITE)
⑱ POLYUREA PM TI LN 6 (WHITE 2' DASH-6' SKIP)
⑲ POLYUREA PM TI LN 8 (SOLID WHITE)
⑳ POLYUREA PM TI LN 12 (SOLID YELLOW)
㉑ POLYUREA PM TI LN 12 (SOLID WHITE)
㉒ POLYUREA PM TI LN 24 (SOLID WHITE)
㉓ RAISED REFL PAVT MKR (ONE-WAY CRYSTAL)
㉔ GROOVING FOR RECESSED PM 5
㉕ MOD URETH PM LINE 4 (SOLID YELLOW)
㉖ CONTRAST PREF PL PM TB IL LN 7 (WHITE 10' DASH-30' SKIP)
㉗ GROOVING FOR RECESSED PM 8
㉘ MOD URETH PM LINE 4 (SOLID WHITE)
㉙ CONTRAST PREF PL PM TB IL LN 7 (WHITE 2' DASH-6' SKIP)

NOTES:

1. INSTALL ALL PAVEMENT MARKINGS ACCORDING TO IDOT'S D1 DETAIL TC-13.
2. INSTALL ALL RAISED REFLECTIVE PAVEMENT MARKINGS ACCORDING TO IDOT'S D1 DETAIL TC-11.



LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLANS F.A.I. 80 / US 30 INTERCHANGE
		DRAWN - IS	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -		SCALE: 1''=50' | SHEET NO. 14 OF 14 SHEETS | STA. 342+00 TO STA. 345+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	317
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

M3-4 36"x18"
M1-1 36"x36"

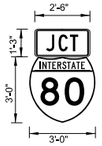
AP SHEETING
BLUE BACKGROUND

NAME	STATION
WB-TS-04	641+00

M3-2 36"x18"
M1-1 36"x36"

AP SHEETING
BLUE BACKGROUND

NAME	STATION
EB-TS-09	679+00



M2-1 30"x15"
M1-1 36"x36"

AP SHEETING
BLUE BACKGROUND

NAME	STATION
WB-PM-36	329+91

M3-2 24"x12"
M1-1 24"x24"
M5-1 21"x15"

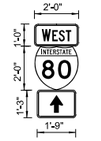
AP SHEETING
BLUE BACKGROUND

NAME	STATION
EB-WP-30	310+96

M3-2 24"x12"
M1-1 24"x24"
M5-1 21"x15"

AP SHEETING
BLUE BACKGROUND

NAME	STATION
WB-WP-34	326+00
WB-TS-36	326+00



M3-4 24"x12"
M1-1 24"x24"
M6-3 21"x15"

AP SHEETING
BLUE BACKGROUND

NAME	STATION
WB-WP-35	326+00

M3-2 24"x12"
M1-1 24"x24"
M6-1 21"x15"

AP SHEETING
BLUE BACKGROUND

NAME	STATION
WB-PM-28	319+16
WB-TS-31	321+00

M3-4 24"x12"
M1-1 24"x24"
M6-1 21"x15"

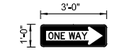
AP SHEETING
BLUE BACKGROUND

NAME	STATION
WB-PM-23	307+06

M3-4 24"x12"
M1-1 24"x24"
M5-4 24"x18"

AP SHEETING
BLUE BACKGROUND

NAME	STATION
WB-TS-32	321+00



R6-1R 36"x12"

NAME	STATION
EB-TS-20a	39+17
EB-TS-21b	39+17
WB-TS-17a	36+40
WB-TS-18a	36+40
WB-TS-18b	36+40

M3-2 24"x12"
M1-4 24"x24"

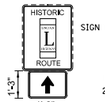
AP SHEETING
WHITE BACKGROUND

NAME	STATION
EB-TS-35	322+17

M3-2 24"x12"
M1-4 24"x24"
M6-3 21"x15"

AP SHEETING
WHITE BACKGROUND

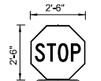
NAME	STATION
EB-WP-29	310+96



SIGN TO REMAIN
M6-3 21"x15"

AP SHEETING
WHITE BACKGROUND

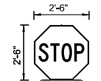
NAME	STATION
EB-WP-31	310+96



R1-1 30"x30"
W4-4aP 24"x12"

ZZ SHEETING
WHITE BACKGROUND

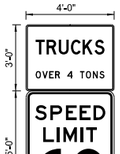
NAME	STATION
SB-TS-07	303+01



R1-1 30"x30"
W4-4aP 24"x12"

ZZ SHEETING
WHITE BACKGROUND

NAME	STATION
WB-TS-57	303+79



R2-1109 48"x36"
R2-1 48"x60"

AP SHEETING
WHITE BACKGROUND

NAME	STATION
EB-WP-13	716+65

R2-4a 48"x96"

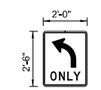
AP SHEETING
WHITE BACKGROUND

NAME	STATION
WB-WP-01	618+00
WB-WP-12	711+00

R2-4a 48"x96"

AP SHEETING
WHITE BACKGROUND

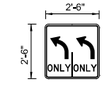
NAME	STATION
EB-WP-10	711+00



R3-5L 24"x30"

AP SHEETING
WHITE BACKGROUND

NAME	STATION
WB-TS-21	302+14
WB-TS-53a	317+60
EB-TS-41*	32+48



R3-8L 30"x30"

AP SHEETING
WHITE BACKGROUND

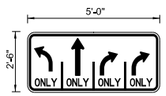
NAME	STATION
WB-TS-25	308+70
WB-TS-30	321+00
WB-TS-44	30+19

*SIGN WILL BE 30"X36"

R3-8R 30"x30"

AP SHEETING
WHITE BACKGROUND

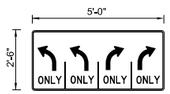
NAME	STATION
EB-TS-40	32+48
WB-TS-40	30+19



60"x30"

AP SHEETING
WHITE BACKGROUND

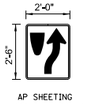
NAME	STATION
EB-TS-40	32+48
EB-TS-41	32+48



60"x30"

AP SHEETING
WHITE BACKGROUND

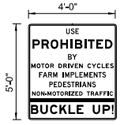
NAME	STATION
WB-TS-40	30+19
WB-TS-44	30+19



R4-7 24"x30"

AP SHEETING
WHITE BACKGROUND

NAME	STATION
WB-TS-19	298+16
WB-TS-20	301+04
EB-TS-25	302+14
WB-TS-24	307+37
EB-TS-28	308+70
WB-TS-29	319+28
EB-TS-34	321+00
WB-TS-38	332+87



R5-1100 48"x60"

AP SHEETING

NAME	STATION
EB-WP-43	21+75
WB-WP-50	17+27

R5-1 36"x36"

ZZ SHEETING
WHITE BACKGROUND

NAME	STATION
EB-TS-20	39+17
EB-TS-21	39+17
WB-WP-17	36+40
WB-WP-18	36+40

R5-1a 42"x30"

ZZ SHEETING
WHITE BACKGROUND

NAME	STATION
EB-TS-22	36+64
EB-TS-23	36+64
WB-TS-15	34+18
WB-TS-16	34+18
EB-TS-40a	32+48
EB-TS-41a	32+48
WB-TS-40a	30+19
WB-TS-44a	30+19

R8-8 24"x30"

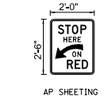
AP SHEETING
WHITE BACKGROUND

NAME	STATION
SB-PM-01	300+76
SB-PM-01a	300+82
SB-PM-01b	300+89
SB-PM-03	301+33
SB-PM-05	301+39

R10-5 30"x36"

AP SHEETING
WHITE BACKGROUND

NAME	STATION
WB-TS-52	307+06
WB-PM-53	307+43
WB-PM-54b	319+49
WB-PM-55	319+14
EB-PM-39a	320+74
EB-PM-44b	320+82



R10-6A 24"x30"

AP SHEETING
WHITE BACKGROUND

NAME	STATION
SB-PM-02	301+32
SB-PM-05b	301+39

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

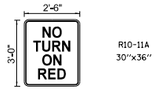
USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 6.8784 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 1 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	318
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



R10-11A
30"x36"

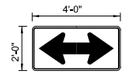
AP SHEETING
WHITE BACKGROUND

NAME	STATION
SB-PM-04	301+32

R10-1102
24"x30"

AP SHEETING
WHITE BACKGROUND

NAME	STATION
WB-PM-54	319+49
WB-PM-51	320+74



W1-7
48"x24"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

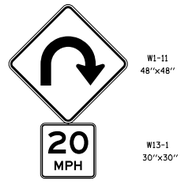
NAME	STATION
NB-TS-02	303+78

W1-8
18"x24"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
EB-TS-15	23+87
EB-TS-16	24+67
EB-TS-17	25+47
EB-TS-18	26+27
EB-TS-19	27+07
EB-TS-20	27+87
EB-TS-21	28+67
EB-TS-22	29+47

NAME	STATION
EB-TS-23	30+27
WB-TS-45	28+08
WB-TS-46	28+88
WB-TS-47	29+68



W1-11
48"x48"

W13-1
30"x30"

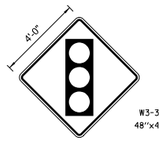
AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
WB-WP-58	671+25
WB-WP-09	26+50

W2-4
30"x30"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

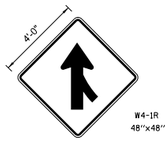
NAME	STATION
NB-TS-01	302+25
EB-WP-14	22+75



W3-3
48"x48"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

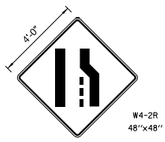
NAME	STATION
WB-TS-13	28+28
WB-TS-49	674+75



W4-1R
48"x48"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
WB-WP-06	661+28
EB-WP-08	669+56
EB-WP-06	27+00



W4-2R
48"x48"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
WB-TS-61	646+50
WB-PM-55b	319+16
EB-PM-44	320+82

W9-1L
48"x48"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
WB-TS-42	636+74

W9-2L
48"x48"

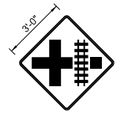
AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
WB-TS-43	649+77

W10-1
36" DIA.

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
SB-TS-06	302+32



W10-2
36"x36"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

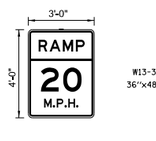
NAME	STATION
EB-TS-21a	39+17
EB-TS-34	318+03
EB-TS-31a	315+75
WB-TS-26a	315+75
WB-TS-32d	325+00

W13-3
36"x48"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
EB-TS-23	30+27
WB-TS-45	28+08
WB-TS-46	28+88
WB-TS-47	29+68

NAME	STATION
EB-TS-42	657+11



W13-3
36"x48"

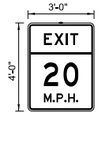
AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
WB-WP-09	26+50

W13-3
24"x30"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

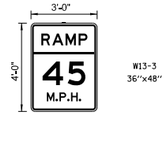
NAME	STATION
EB-WP-14	22+75



W13-3
36"x48"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

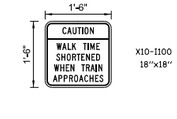
NAME	STATION
WB-TS-49	674+75



W13-3
36"x48"

AZ SHEETING
FLUORESCENT YELLOW
BACKGROUND

NAME	STATION
EB-WP-06	27+00



X10-1100
18"x18"

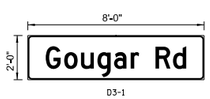
AP SHEETING

NAME	STATION
WB-PM-55b	319+16
EB-PM-44	320+82

D3-1
60"x33"

AP SHEETING
GREEN BACKGROUND

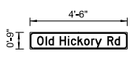
NAME	STATION
EB-TS-05	657+90
WB-TS-05	658+45



D3-1
96"x24"

AP SHEETING
GREEN BACKGROUND

NAME	STATION
EB-BM-02	629+49
WB-BM-02	629+81



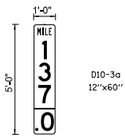
AP SHEETING
GREEN BACKGROUND

NAME	STATION
WB-TS-26b	315+75
WB-TS-32e	325+00
EB-TS-31b	315+75

E5-1a
90"x60"

ZZ SHEETING
GREEN BACKGROUND

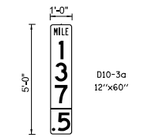
NAME	STATION
EB-WP-07	664+27
WB-WP-08	667+45



D10-3a
12"x60"

AP SHEETING
GREEN BACKGROUND

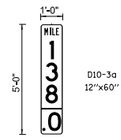
NAME	STATION
EB-TS-03	635+65
WB-TS-03	635+65



D10-3a
12"x60"

AP SHEETING
GREEN BACKGROUND

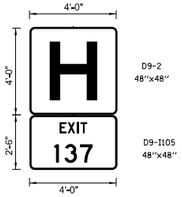
NAME	STATION
WB-TS-07	662+05
EB-TS-47	662+05



D10-3a
12"x60"

AP SHEETING
GREEN BACKGROUND

NAME	STATION
EB-TS-11	713+82
WB-TS-56	713+82

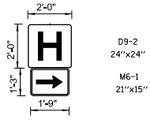


D9-2
48"x48"

D9-1105
48"x48"

AP SHEETING
BLUE BACKGROUND

NAME	STATION
EB-WP-48	620+00
WB-WP-59	724+00

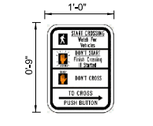


D9-2
24"x24"

M6-1
21"x15"

AP SHEETING
BLUE BACKGROUND

NAME	STATION
EB-WP-49	29+00
WB-WP-60	29+25



NAME	STATION
WB-PM-39	319+60
EB-PM-39	29+25

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 6.8784 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

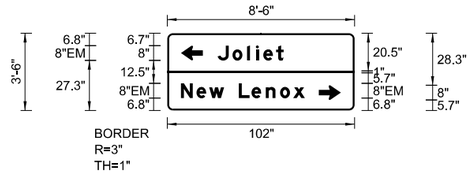
SCALE: N.T.S. | SHEET NO. 2 OF 21 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	319
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

STA. 31+25, STA. 33+80

SIGN DETAIL

1:75



Panel Style: guide_sign.ssi
M.U.T.C.D.: 2003 Edition

SIGN NUMBER	EB–BS–24, WB–BS–14
WIDTH x HGHT.	8'–6" x 3'–6"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground: 2 Breakaway posts
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR–TYPE D	90	7.4	27.3	8	12
AR–TYPE D	270	82.5	5.7	8	12

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

J	o	l	i	e	t																												LENGTH	SERIES/SIZE
27.4	35.5	43.4	48.2	52.3	59.2																												36	EM 2000 85.8
N	e	w		L	e	n	o	x																												
7.4	15.9	22.8		38.9	45.9	53.6	61.4	68.6																									67.6	EM 2000 85.8

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		DRAWN - IS	REVISED -	
	PLOT SCALE = 6.8784 ' / in.	CHECKED - ST	REVISED -	
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -	

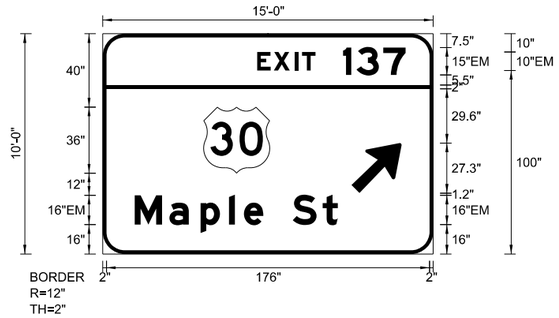
SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 3 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	320
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75



Panel Style: guide_sign.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	WB–OHT–10 STA. 671+15
WIDTH x HGHT.	15'–0" x 10'–0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground
BACKGROUND	TYPE: ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	55	44	36	36
AR_Type A	45	135.5	33.2	22.3	35.1

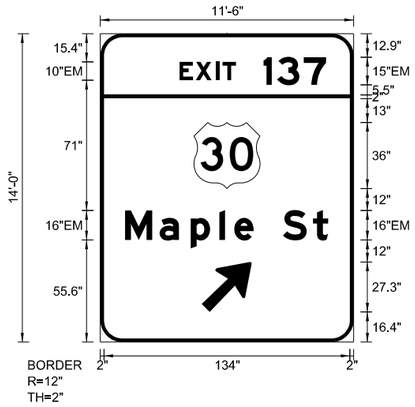
Panel Style: Guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																																	LENGTH	SERIES/SIZE
E	X	I	T																															EM 2000
84.1	93.2	104.4	108.6																														31.9	10
1	3	7																																EM 2000
131	138.3	152.9																															34.1	15
M	a	p	I	e		S	t																											EM 2000
17.4	36.3	53.2	68.8	76.9		103.5	119.8																										110.7	1611.7

SIGN DETAIL
1:75



Panel Style: guide_sign.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-BS-04 STA. 639+47	
WIDTH x HGHT.	11'-6" x 14'-0"	
BORDER WIDTH	2"	
CORNER RADIUS	12"	
MOUNTING	Ground: 2 Breakaway posts	
BACKGROUND	TYPE:	ZZ Sheeting
	COLOR:	Green
LEGEND/BORDER	TYPE:	ZZ Sheeting
	COLOR:	White/White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	51	83.7	36	36
AR_Type A	45	55.2	16.4	22.3	35.1

LETTER POSITIONS (X)

								LENGTH	SERIES/SIZE
E	X	I	T	1	3	7			EM 2000
43.2	52	62.8	66.6	89	96.3	110.9		79.9	10,15
M	a	p	l	e		S	t		EM 2000
13.5	32.3	49.3	64.8	73		99.5	115.9	110.7	16/11.7

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		DRAWN - IS	REVISED -
	PLOT SCALE = 6.8784 '/ in.	CHECKED - ST	REVISED -
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 5 OF 20 SHEETS | STA. TO STA.

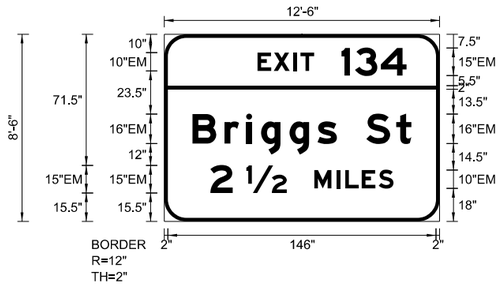
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	322

CONTRACT NO. 60N87

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SIGN DETAIL

1:75



Panel Style: Guide Sign.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	WB–OHT–11 STA 671+15
WIDTH x HGHT.	12'–6" x 8'–6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead: Truss
BACKGROUND	TYPE: ZZ Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: Guide Sign.ssi
Dimensions are in inches.tenths

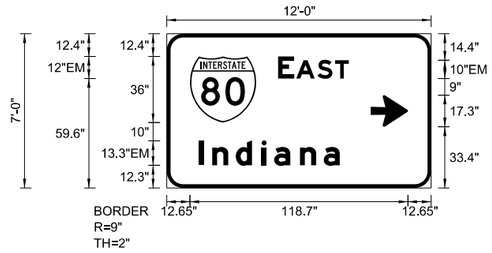
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																																	LENGTH	SERIES/SIZE
E	X	I	T		1	3	4																												EM 2000
50.8	59.6	70.4	74.2		96.6	104	118.1																											81.2	10,15
B	r	i	g	g	s		S	t																											EM 2000
15.3	32.8	44.6	52.8	68.3	83.5		110	126.4																										119.4	16/11.7
2	1/2		M	I	L	E	S																												EM 2000
25.1	44.7		81.7	93.8	98.6	107.6	116.8																											99.8	15,10

SIGN DETAIL

1:75



Panel Style: New_Guid.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	EB–BS–32 STA. 317+20
WIDTH x HGHT.	16'–0" x 7'–0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Ground: 3 Breakaway posts
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	12.6	35.6	36	36
AR–Type B	0	111.1	33.4	17.3	20.3

Panel Style: New_Guid.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

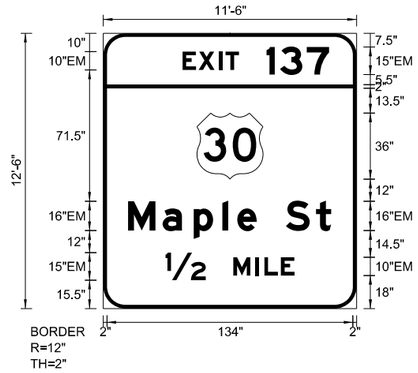
LETTER POSITIONS (X)

LENGTH SERIES/SIZE

E	A	S	T																																			
60.7	70.5	82.1	91.7																																			
I	n	d	i	a	n	a																																
17.5	24.7	37.6	51.7	58.5	72.6	85.5																																

SIGN DETAIL

1:75



Panel Style: guide_sign.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	EB–BS–01 STA. 628+66
WIDTH x HGHT.	11'–6" x 12'–6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground: 2 Breakway posts
BACKGROUND	TYPE: ZZ Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	51	70.5	36	36

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																																	LENGTH	SERIES/SIZE
E	X	I	T																															EM 2000
43.2	52	62.8	66.6																														30.8	10
1	3	7																																EM 2000
89	96.3	110.9																															34.1	15
M	a	p	I	e		S	t																											EM 2000
13.5	32.3	49.3	64.8	73		99.5	115.9																										110.7	16/11.7
12		M	I	L	E																													EM 2000
33.9		70.9	83	87.8	96.8																												70.3	15,10

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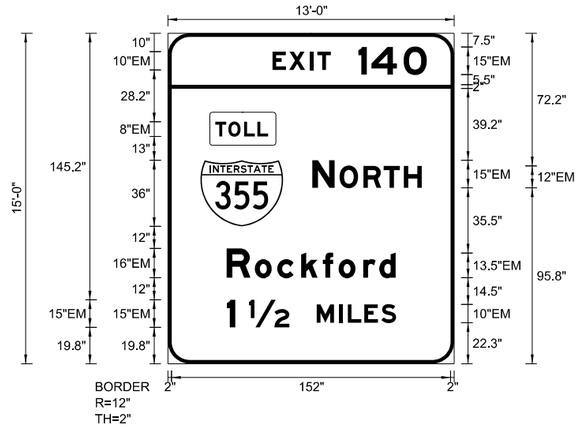
		DRAWN - IS	REVISED -		
	PLOT SCALE = 6.8784 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -		SCALE: N.T.S. | SHEET NO. 8 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	325
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75



Panel Style: guide_sign.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	EB–BS–12 STA. 716 + 00
WIDTH x HGHT.	13'–0" x 15'–0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground: 2 Breakaway posts
BACKGROUND	TYPE: ZZ Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting
	COLOR: White,Black/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	17.7	74.8	45	36

Panel Style: guide_sign.ssi

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																																					LENGTH	SERIES/SIZE
E	X	I	T																																			EM 2000
56.9	66	77.2	81.4																																		31.9	10
1	4	0																																				EM 2000
103.8	110.9	128.4																																			37.2	15
T	O	L	L																																			EM 2000
25.8	32.9	41.5	48.7																																		28.8	8
N	O	R	T	H																																		EM 2000
78.7	93.5	106.5	117.5	128.6																																	59.6	15,12
R	o	c	k	f	o	r	d																															EM 2000
31.9	47.4	59.5	72.6	84.4	93	106.4	115.2																														92.1	16,13.5/9.9
1	12		M	I	L	E	S																															EM 2000
32.2	44.2		81.1	93.2	98	107	116.2																														92.2	15,10

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Springfield, Illinois
Westmont, Illinois

USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
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PLOT SCALE = 6.8784 '/ in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

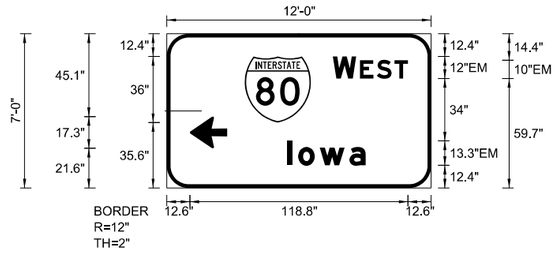
SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 9 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	326
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75



Panel Style: guide_sign.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	WB–BS–26 STA. 309+12
WIDTH x HGHT.	12'–0" x 7'–0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground: 2 Breakaway posts
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	42.5	35.6	36	36
AR–Type B	180	12.6	21.6	17.3	20.3

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

W	E	S	T																														LENGTH	SERIES/SIZE
90.5	105.2	114.4	124																														40.9	EM 2000 12,10
l	o	w	a																															EM 2000
65.6	71.6	83.3	99.5																														42.7	13.3 9.7

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Springfield, Illinois
Westmont, Illinois

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	DRAWN - IS	REVISED -
PLOT SCALE = 6.8784 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

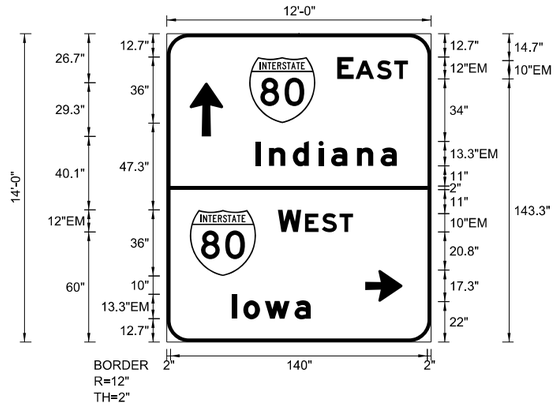
SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 10 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	327
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75



SIGN NUMBER	EB–BS–27 STA. 304+84
WIDTH x HGHT.	12'–0" x 14'–0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground: 2 Breakaway posts
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	44.9	119.3	36	36
AR–TYPE A	90	12.5	112.1	18.3	29.3
M1_1	0	12.6	36	36	36
AR–TYPE B	0	108.2	22	17.3	20.3

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Panel Style: guide_sign.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

							LENGTH	SERIES/SIZE
E	A	S	T					EM 2000
92.9	102.8	114.4	124				38.5	12,10
I	n	d	i	a	n	a		EM 2000
48.6	55.8	68.7	82.8	89.6	103.7	116.6	76.7	13.3,9.7
W	E	S	T					EM 2000
60.6	75.3	84.5	94.1				40.9	12,10
I	o	w	a					EM 2000
35.7	41.7	53.4	69.6				42.7	13.3,9.7

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Springfield, Illinois
Westmont, Illinois

USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 6.8784 '/ in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 11 OF 20 SHEETS | STA. TO STA.

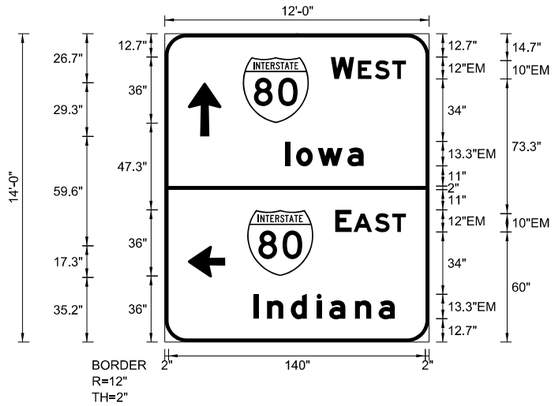
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	328

CONTRACT NO. 60N87

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SIGN DETAIL

1:75



Panel Style: guide_sign.ssi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	WB–BS–33 STA. 323+07
WIDTH x HGHT.	12'–0" x 14'–0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground: 2 Breakaway posts
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White

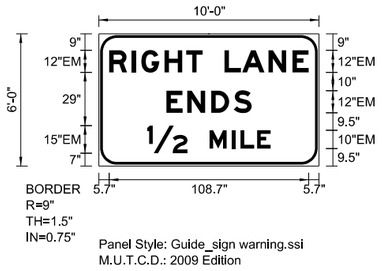
SYMBOL	ROT	X	Y	WID	HT
M1_1	0	42.5	119.3	36	36
AR–TYPE A	90	12.6	112.1	18.3	29.3
AR–TYPE B	180	12.6	35.2	17.3	20.3
M1_1	0	44.9	36	36	36

LETTER POSITIONS (X)

																																		LENGTH	SERIES/SIZE
W	E	S	T																																EM 2000
90.5	105.2	114.4	124																															40.9	12,10
I	o	w	a																																EM 2000
65.6	71.6	83.3	99.5																															42.7	13.3/9.7
E	A	S	T																																EM 2000
92.9	102.8	114.4	124																															38.5	12,10
I	n	d	i	a	n	a																													EM 2000
48.6	55.8	68.7	82.8	89.6	103.7	116.6																												76.7	13.3/9.7

SIGN DETAIL

1:75



Panel Style: Guide_sign warning.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	WB–BS–41 STA. 663+14
WIDTH x HGHT.	10'–0" x 6'–0"
BORDER WIDTH	1.5"
CORNER RADIUS	9"
MOUNTING	Overhead – Bridge
BACKGROUND	TYPE: AZ Sheeting
	COLOR: Yellow
LEGEND/BORDER	TYPE: AZ Sheeting
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT

Panel Style: Guide_sign warning.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																																					LENGTH	SERIES/SIZE
R	I	G	H	T		L	A	N	E																													EM 2000
5.7	17.9	23.2	35.8	47.7		68.5	78.1	92.4	105.5																												108.7	12
E	N	D	S																																			EM 2000
36.8	48.2	61.3	73.5																																		46.4	12
1/2		M	I	L	E																																	EM 2000
28.6		58.2	70.3	75.1	84.1																																62.9	12,10

LIN ENGINEERING,LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 6.8784 '/ in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

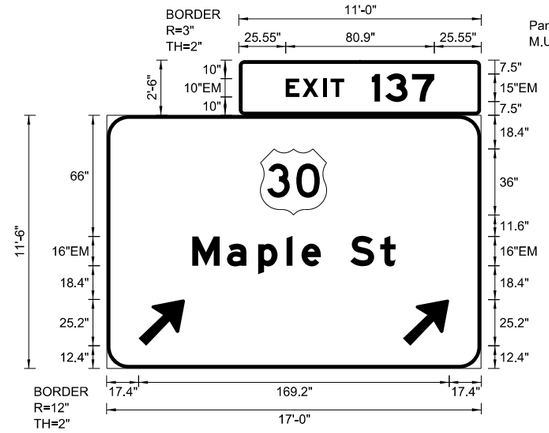
SCALE: N.T.S. | SHEET NO. 13 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	330

CONTRACT NO. 60N87

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SIGN DETAIL



Panel Style: tab_panel.bsi
M.U.T.C.D.: 2009 Edition

Panel Style: guide_fwy_overhead.ssi
Dimensions are in inches.tenths

Panel Style: guide_sign.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB–OHT–46 STA. 658 + 00
WIDTH x HGHT.	17'–0" x 11'–6", 11'–0" x 2'–6"
BORDER WIDTH	2", 2"
CORNER RADIUS	12", 3"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	83.8	83.6	36	36
AR_Type A	45	17.4	12.4	20.6	32.4
AR_Type A	45	161.4	12.4	20.5	32.4

LETTER POSITIONS (X)

																																			LENGTH	SERIES/SIZE
E	X	I	T																																		EM 2000
25.5	34.6	45.8	50																																	31.9	10
1	3	7																																			EM 2000
72.4	79.8	94.3																																		34.1	15
M	a	p	I	e		S	t																														EM 2000
46.7	65.5	82.5	98	106.2		132.7	149.1																													110.7	1611.7

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Consulting Engineers
Springfield, Illinois
Westmont, Illinois

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	DRAWN - IS	REVISED -
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PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

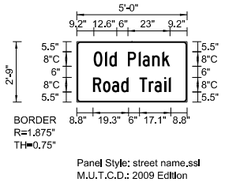
SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 14 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	331
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75



Panel Style: street name.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	EB–TS–05, WB–TS–05
WIDTH x HGHT.	5'–0" x 2'–9"
BORDER WIDTH	0.75"
CORNER RADIUS	1.875"
MOUNTING	Ground
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: street name.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																																	LENGTH	SERIES/SIZE
O	l	d		P	l	a	n	k																										C 2000
9.2	15.4	17.7		27.8	33.7	35.8	41	46.5																									41.6	86
R	o	a	d		T	r	a	i	l																									C 2000
8.8	14.2	19.1	24.1		34.2	39.2	42.3	47.5	50.1																									42.4	86

LIN ENGINEERING,LTD. Consulting Engineers Springfield, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - IS	REVISED -	
	PLOT SCALE = 6.8784 ' / in.	CHECKED - ST	REVISED -	
	PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -	

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 15 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	332
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75

SIGN NUMBER	EB–BM–02, WB–BM–02
WIDTH x HGHT.	8'–0" x 2'–0"
BORDER WIDTH	0.875"
CORNER RADIUS	2.25"
MOUNTING	Overhead – Bridge
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White

Panel Style: Street_Name.ssi
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT

Panel Style: Street Name 12–9in custom.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																																					LENGTH	SERIES/SIZE
G	o	u	g	a	r		R	d																														D 2000
9.7	19.8	28.9	37.9	46.9	56		69.6	79.1																													76.6	12/9

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 16 OF 20 SHEETS | STA. TO STA.

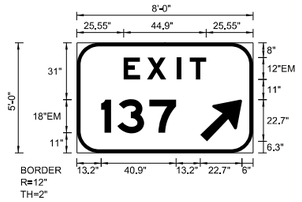
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	333

CONTRACT NO. 60N87

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SIGN DETAIL

1:75



Panel Style: guide_fwy_gore_edited.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	EP–WP–07, WB–WP–08
WIDTH x HGHT.	8'–0" x 5'–0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Ground: 2 Wood Posts
BACKGROUND	TYPE: ZZ Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: ZZ Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type A	315	106.7	46.6	18.3	29.3

Panel Style: guide_fwy_gore_edited.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T																															LENGTH	SERIES/SIZE
64.9	77.6	93.7	101																															44.9	EM 2000 12
1	3	7																																	EM 2000
52.6	61.4	78.9																																40.9	18

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

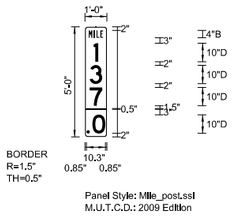
SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 17 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	334
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75



Panel Style: Mile_post.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	EB–TS–03, WB–TS–03
WIDTH x HGHT.	1'–0" x 5'–0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Ground: 1 Steel Post
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																																					LENGTH	SERIES/SIZE
M	I	L	E																																			B 2000
2.1	4.9	6.3	8.4																																		7.8	4
1																																						D 2000
4.8																																					2.5	10
3																																						D 2000
2.6																																					6.8	10
7																																						D 2000
2.6																																					6.8	10
.	0																																					D 2000
0.9	4.1																																				10.3	10

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DATE - 06/2018

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REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

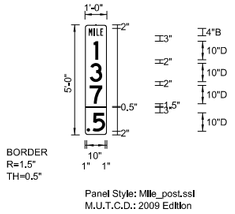
SCALE: N.T.S.
SHEET NO. 18 OF 20 SHEETS
STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	335

CONTRACT NO. 60N87
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SIGN DETAIL

1:75



BORDER
R=1.5"
TH=0.5"

Panel Style: Mile_post.ssi
M.U.T.C.D.: 2009 Edition

SIGN NUMBER	WB-TS-07, EB-TS-47	
WIDTH x HGHT.	1'-0" x 5'-0"	
BORDER WIDTH	0.5"	
CORNER RADIUS	1.5"	
MOUNTING	Ground: 1 Steel Post	
BACKGROUND	TYPE:	AP Sheeting
	COLOR:	Green
LEGEND/BORDER	TYPE:	Reflective
	COLOR:	AP Sheeting

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																																					LENGTH	SERIES/SIZE
M	I	L	E																																			B 2000
2.1	4.9	6.3	8.4																																		7.8	4
1																																						D 2000
4.8																																					2.5	10
3																																						D 2000
2.6																																					6.8	10
7																																						D 2000
2.6																																					6.8	10
.	5																																					D 2000
1	4.2																																				10	10

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

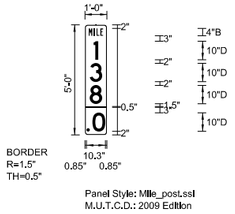
SCALE: N.T.S. | SHEET NO. 19 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	336
		CONTRACT NO. 60N87		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SIGN DETAIL
1:75

SIGN NUMBER	EB–TS–11, WB–TS–56
WIDTH x HGHT.	1'–0" x 5'–0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Ground: 1 Steel Post
BACKGROUND	TYPE: AP Sheeting
	COLOR: Green
LEGEND/BORDER	TYPE: AP Sheeting
	COLOR: White/White



Panel Style: Mile_post.ssi
M.U.T.C.D.: 2009 Edition

SYMBOL	ROT	X	Y	WID	HT

Panel Style: guide_sign.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

				LENGTH	SERIES/SIZE
M	I	L	E		B 2000
2.1	4.9	6.3	8.4	7.8	4
1					D 2000
4.8				2.5	10
3					D 2000
2.6				6.8	10
8					D 2000
2.6				6.8	10
.	0				D 2000
0.9	4.1			10.3	10

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS
F.A.I. 80 / US 30 INTERCHANGE

SCALE: N.T.S. | SHEET NO. 20 OF 20 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	337

CONTRACT NO. 60N87

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SIGN SCHEDULE

SIGN NO.	STATION	OFFSET	ALIGNMENT	LEGEND/DESCRIPTION	EXISTING PANEL DIMENSIONS WIDTH (FT)	EXISTING PANEL DIMENSIONS HEIGHT (FT)	PROPOSED PANEL DIMENSIONS WIDTH (FT)	PROPOSED PANEL DIMENSIONS HEIGHT (FT)	72000100 SIGN PANEL TYPE 1 (SQ FT)	72000200 SIGN PANEL TYPE 2 (SQ FT)	72000300 SIGN PANEL TYPE 3 (SQ FT)	72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A (EACH)	72400200 REMOVE SIGN PANEL ASSEMBLY - TYPE B (EACH)	72400310 REMOVE SIGN PANEL - TYPE 1 (SQ FT)	72400320 REMOVE SIGN PANEL - TYPE 2 (SQ FT)	72400330 REMOVE SIGN PANEL - TYPE 3 (SQ FT)	72600100 MILE POST MARKER ASSEMBLY (EACH)	72700100 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY POST 1 (POUND)	72700100 STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY POST 2 (POUND)	72800100 TELESCOPING STEEL SIGN SUPPORT POST 1 (FOOT)	72800100 TELESCOPING STEEL SIGN SUPPORT POST 2 (FOOT)	73000100 WOOD SIGN SUPPORT POST 1 (FOOT)	73000100 WOOD SIGN SUPPORT POST 2 (FOOT)	73100100 BASE FOR TELESCOPING STEEL SIGN SUPPORT (EACH)	73400100 CONCRETE FOUNDATIONS (CU YD)	73700100 REMOVE GROUND MOUNTED SIGN SUPPORT (EACH)	73700200 REMOVE CONCRETE FOUNDATION - GROUND MOUNT (EACH)	84200600 REMOVAL OF SIGN LIGHTING, NO SALVAGE (EACH)
EB-BS-01*	628+66	RT	I-80	EXIT 137/US 30/MAPLE ST/1/2 MILE	11.5	13.0	11.5	12.5			143.8					149.5		660.6	633.2						2.5	2.0	2.0	
EB-BM-02	629+49	RT	I-80	D3-1 (GOUGAR RD)	8.0	2.0	8.0	2.0		16.0					16.0													
EB-TS-03	635+65	RT	I-80	D10-3a (MILE 137.0)	1.0	5.0	1.0	5.0				1.0					1.0											
EB-BS-04*	639+47	RT	I-80	EXIT 137/US 30/MAPLE ST/RIGHT ARROW	11.5	14.0	11.5	14.0			161.0					161.0		752.6	725.5						3.8	2.0	2.0	
EB-TS-05*	657+90	RT	I-80	D3-1 (OLD PLANK ROAD TRAIL)	5.0	2.8	5.0	2.8		13.8			1.0							14.9	15.3							
EB-WP-06	27+00	RT	RAMP CB	W13-3 (RAMP/45/M.P.H.)	3.0	4.0	3.0	4.0		12.0			1.0									16.5						
EB-WP-07	664+27	RT	I-80	E5-1a (EXIT/137)	8.0	5.0	8.0	5.0			40.0		1.0									17.4	18.6					
EB-WP-08	669+56	RT	I-80	W4-1R	4.0	4.0	4.0	4.0		16.0			1.0									19.3						
EB-TS-09a	679+00	RT	I-80	M3-2 (EAST)	3.0	1.5	3.0	1.5	4.5				1.0							18.0								
EB-TS-09b	679+00	RT	I-80	M1-1 (INTERSTATE/80)	3.0	3.0	3.0	3.0	9.0																			
EB-WP-10	711+00	RT	I-80	R2-4a (SPEED/LIMIT/65/MINIMUM/45)	4.0	8.0	4.0	8.0			32.0		1.0									21.8						
EB-TS-11	713+82	RT	I-80	D10-3a (MILE 138.0)	1.0	5.0	1.0	5.0				1.0					1.0											
EB-BS-12*	716+00	RT	I-80	EXIT 140/TOLL/INTERSTATE 355 NORTH/ROCKFORD/1 1/2 MILES	14.5	12.0	13.0	15.0			195.0					174.0		1109.6	985.9						4.5	2.0	2.0	
EB-WP-13a	716+65	RT	I-80	R2-I109 (TRUCKS/OVER 4 TONS)	4.0	3.0	4.0	3.0		12.0			1.0									21.7						
EB-WP-13b	716+65	RT	I-80	R2-1 (SPEED/LIMIT/60)	4.0	5.0	4.0	5.0		20.0																		
EB-WP-14	22+75	RT	RAMP BD	W13-3 (RAMP/20/M.P.H.)	2.0	2.5	2.0	2.5	5.0			1.0										16.4						
EB-TS-15	23+87	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								15.1								
EB-TS-16	24+67	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								15.1								
EB-TS-17	25+47	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								15.0								
EB-TS-18	26+27	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								14.8								
EB-TS-19	27+07	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								14.8								
EB-TS-19a	27+87	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								15.0								
EB-TS-19b	28+67	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								15.0								
EB-TS-19c	29+47	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								15.0								
EB-TS-19d	30+27	LT	RAMP BD	W1-8 (RIGHT CHEVRON)	1.5	2.0	1.5	2.0	3.0			1.0								15.0								
EB-TS-20	39+17	LT	RAMP CB	R5-1 (DO NOT/ENTER)	3.0	3.0	3.0	3.0	9.0			1.0								16.0								
EB-TS-20a	39+17	LT	RAMP CB	R6-1R (ONE/WAY)	0.0	0.0	3.0	1.0	3.0																			
EB-TS-21	39+17	RT	RAMP CB	R5-1 (DO NOT/ENTER)	3.0	3.0	3.0	3.0	9.0			1.0								15.5								
EB-TS-21a	39+17	RT	RAMP CB	W10-2	0.0	0.0	3.0	3.0	9.0											15.5								
EB-TS-20a	39+17	LT	RAMP BD	R6-1R (ONE/WAY)	0.0	0.0	3.0	1.0	3.0																			
EB-TS-22	36+64	LT	RAMP CB	R5-1a (WRONG/WAY)	3.5	2.5	3.5	2.5	8.8			1.0								15.3								
EB-TS-23	36+64	RT	RAMP CB	R5-1a (WRONG/WAY)	3.5	2.5	3.5	2.5	8.8			1.0								14.9								
EB-BS-24*	31+25	RT	RAMP CB	LEFT ARROW JOLIET/NEW LENOX RIGHT ARROW	8.5	3.5	8.5	3.5			29.8					29.8		223.2	241.2						1.4	2.0	2.0	
EB-TS-25	302+14	RT	US 30	R4-7 (KEEP RIGHT)	2.0	2.5	2.0	2.5	5.0				1.0							10.0				1.0				
EB-BS-27*	304+84	RT	US 30	INTERSTATE 80 EAST/INDIANA/INTERSTATE 80 WEST/IOWA	15.5	16.0	12.0	14.0			168.0					248.0		1071.8	931.0						4.2	2.0	2.0	
EB-TS-28	308+70	RT	US 30	R4-7 (KEEP RIGHT)	2.0	2.5	2.0	2.5	5.0				1.0							10.0				1.0				
EB-WP-29a	310+96	RT	US 30	M3-2 (EAST)	2.0	1.0	2.0	1.0	2.0				1.0									18.2						
EB-WP-29b	310+96	RT	US 30	M1-4 (US 30)	2.0	2.0	2.0	2.0	4.0																			
EB-WP-29c	310+96	RT	US 30	M6-3	1.8	1.3	1.8	1.3	2.2																			
EB-WP-30a	310+96	RT	US 30	M3-2 (EAST)	2.0	1.0	2.0	1.0	2.0																			
EB-WP-30b	310+96	RT	US 30	M1-1 (INTERSTATE/80)	2.0	2.0	2.0	2.0	4.0																			
EB-WP-30c	310+96	RT	US 30	M5-1	1.8	1.3	1.8	1.3	2.2																			
EB-WP-31	310+96	RT	US 30	M6-3	1.8	1.3	1.8	1.3	2.2																			
EB-WP-31a	315+75	RT	US 30	W10-2	0.0	0.0	3.0	3.0	9.0													15.5						
EB-WP-31b	315+75	RT	US 30	D3-1 (OLD HICKORY RD)	0.0	0.0	4.5	0.8	3.4																			
EB-BS-32*	317+20	RT	US 30	INTERSTATE 80 EAST/INDIANA	16.0	7.0	12.0	7.0			84.0					112.0		401.9	454.7						2.4	3.0	3.0	
	319+48	RT	US 30	R3-4 (NO U-TURN)	2.0	2.0							1.0															
	320+54	RT	US 30	R3-4 (NO U-TURN)	2.5	2.5							1.0															
EB-TS-34	321+00	RT	US 30	R4-7 (KEEP RIGHT)	0.0	0.0	2.0	2.5	5.0																			
EB-TS-35a	322+17	RT	US 30	M3-2 (EAST)	2.0	1.0	2.0	1.0	2.0			1.0								15.1								
EB-TS-35b	322+17	RT	US 30	M1-4 (US 30)	2.0	2.0	2.0	2.0	4.0																			
EB-TS-36a	326+00	LT	US 30	M3-2 (EAST)	0.0	0.0	2.0	1.0	2.0											17.4								
EB-TS-36b	326+00	LT	US 30	M1-1 (INTERSTATE/80)	0.0	0.0	2.0	2.0	4.0																			
EB-TS-36c	326+00	LT	US 30	M5-1	0.0	0.0	1.8	1.3	2.2																			
EB-PM-39a**	320+74	LT	US 30	R10-5 (LEFT ON/GREEN/ARROW/ONLY)	0.0	0.0	2.5	3.0	7.5																			
EB-PM-39**	320+82	RT	US 30	X10-I100(CAUTION/WALK TIME/SHORTENED/WHEN TRAIN/APPROACHES)	0.0	0.0	1.5	1.5	2.3																			
EB-TS-40	32+48	RT	RAMP CB	R3-8	0.0	0.0	5.0	2.5		12.5										17.0	17.0							
EB-TS-40a	32+48	RT	RAMP CB	R5-1a (WRONG/WAY)	0.0	0.0	3.5	2.5	8.8																			
EB-TS-41	32+48	LT	RAMP CB	R3-8	0.0	0.0	5.0	2.5		12.5										17.0	17.0							
EB-TS-41a	32+48	RT	RAMP CB	R5-1a (WRONG/WAY)	0.0	0.0	3.5	2.5	8.8																			
EB-TS-42	657+11	RT	I-80	W13-3 (EXIT/45 M.P.H.)	0.0	0.0	3.0	4.0		12.0										16.4								
EB-WP-43*	21+75	RT	RAMP BD	R5-I100 (USE PROHIBITED)	4.0	5.0	4.0	5.0		20.0			1.0									17.4						
EB-PM-44**	320+82	RT	US 30	R10-3b (PEDESTRIAN CROSSING SIGN)	0.0	0.0	0.8	1.0	0.8																			
EB-PM-44b**	320+82	RT	US 30	R10-5 (LEFT ON/GREEN/ARROW/ONLY)	0.0	0.0	2.5	3.0	7.5																			
EB-OHT-46a	658+00	RT	I-80	US 30/MAPLE ST/DUAL RIGHT ARROW	0.0	0.0	17.0	11.5			195.5																	
EB-OHT-46b	658+00	RT	I-80	EXIT 137	0.0	0.0	11.0	2.5			27.5																	
EB-TS-47	662+05	RT	I-80	D10-3a (MILE 137.5)	1.0	5.0	1.0	5.0				1.0					1.0											
EB-WP-48a	620+00	RT	I-80	D9-2	0.0	0.0	4.0	4.0		16.0										18.9								
EB-WP-48b	620+00	RT	I-80	D9-I105	0.0	0.0	4.0	2.5		10.0																		
EB-WP-49a	29+00	RT	RAMP CB	D9-2	0.0	0.0	2.0	2.0	4.0													16.5						
EB-WP-49b	29+00	RT	RAMP CB	M6-1	0.0	0.0	1.8	1.3	2.2																			
WB-WP-01	618+00	LT	I-80	R2-4a (SPEED/LIMIT/55/MINIMUM/45)	4.0	8.0	4.0	8.0			32.0	1.0										21.0						
WB-BM-02	629+81	LT	I-80	D3-1 (GOUGAR RD)	8.0	2.0	8.0	2.0		16.0				16.0														
WB-TS-03	635+65	LT	I-80	D10-3a (MILE 137.0)	1.0	5.0	1.0	5.0				1.0					1.0											
WB-TS-04a	641+00	LT	I-80	M3-4 (WEST)	3.0	1.5	3.0	1.5	4.5				1.0							19.0								
WB-TS-04b	641+00	LT	I-80	M1-1 (INTERSTATE/80)	3.0	3.0	3.0	3.0	9.0																			
WB-TS-05	658+45	LT	I-80	D3-1 (OLD PLANK ROAD TRAIL)	5.0	2.8	5.0	2.8		13.8			1.0							14.8	15.0							
WB-WP-06	661+28	LT	I-80	W4-1R	4.0	4.0	4.0	4.0		16.0			1.0									18.8						
WB-TS-07	662+05	LT	I-80	D10-3a (MILE 137.5)	1.0	5.0	1.0	5.0				1.0					1.0											
WB-WP-08	667+45	LT	I-80	E5-1a (EXIT/137)	8.0	5.0	8.0	5.0			40.0					40.0						15.7	17.0					
WB-WP-09	26+50	RT	RAMP DA	W13-3 (RAMP/20/M.P.H.)	3.0	4.0	3.0	4.0		12.0			1.0									16.4						
WB-OHT-10*	671+15	LT	I-80	EXIT 137/US 30/MAPLE ST	15.0	8.0	15.0	10.0			150.0					120.0												1.0
WB-OHT-11*	671+15	LT	I-80	EXIT 134/BRIGGS ST/2 1/2 MILES	12.0	8.5	12.5	8.5			106.3					102.0												1.0
WB-WP-12	711+00	LT	I-80	R2-4a (SPEED/LIMIT/55/MINIMUM/45)	4.0	8.0	4.0	8.0			32.0					32.0						21.2						
	726+50	CT	I-80	Left Lane Drop	4.0	4.0							1.0															
	732+00	CT	I-80	Left Lane Ends	4.0	4.0							1.0															
	737+50	CT	I-80	Left Lane Ends 1/4 Mile	12.5	7.0										87.5												
	778+10	CT	I-80	Left Lane Ends 1 Mile	12.5	7.0										87.5												
WB-TS-13	28+28	RT	RAMP DA	W3-3	4.0	4.0	4.0	4.0		16.0			1.0							17.5								
WB-BS-14*	33+80	RT	RAMP DA	LEFT ARROW JOLIET/NEW LENOX RIGHT ARROW	8.5	3.5	8.5	3.5			29.8					29.8		117.5	103.1						1.4	2.0	2.0	
WB-TS-15	34+18	RT	RAMP DA	R5-1a (WRONG/WAY)	3.5	2.5	3.5	2.5	8.8			1.0								16.8								
WB-TS-16	34+18	LT	RAMP DA	R5-1a (WRONG/WAY)	3.5	2.5	3.5	2.5	8.8			1.0								16.7								
WB-WP-17	36+40	RT	RAMP DA	R5-1 (DO NOT/ENTER)	3.0	3.0	3.0	3.0	9.0			1.0										15.7						
WB-TS-17a	36+40	LT	RAMP DA	R6-1R (ONE WAY)	0.0	0.0	3.0	1.0	3.0																			

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING SCHEDULE
F.A.I. 80 / US 30 INTERCHANGE

SCALE: 1"=50' | SHEET NO. 1 OF 2 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	338
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN SCHEDULE

					EXISTING		PROPOSED		72000100	72000200	72000300	72400100	72400200	72400310	72400320	72400330	72600100	72700100		72800100		73000100		73100100	73400100	73700100	73700200	84200600
					PANEL DIMENSIONS		PANEL DIMENSIONS		SIGN PANEL TYPE 1	SIGN PANEL TYPE 2	SIGN PANEL TYPE 3	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 3	MILE POST MARKER ASSEMBLY	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY		TELESCOPING STEEL SIGN SUPPORT		WOOD SIGN SUPPORT		BASE FOR TELESCOPING STEEL SIGN SUPPORT	CONCRETE FOUNDATIONS	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	REMOVAL OF SIGN LIGHTING, NO SALVAGE
																		POST 1	POST 2	POST 1	POST 2	POST 1	POST 2					
WB-WP-18	36+40	LT	RAMP DA	R5-1 (DO NOT/ENTER)	3.0	3.0	3.0	3.0	9.0			1.0										16.4						
WB-WP-18a	36+41	LT	RAMP DA	R6-1R (ONE WAY)	0.0	0.0	3.0	1.0	3.0																			
WB-WP-18b	36+42	LT	RAMP DA	R6-1R (ONE WAY)	0.0	0.0	3.0	1.0	3.0																			
WB-TS-19	298+16	LT	US 30	R4-7 (KEEP RIGHT)	2.0	2.5	2.0	2.5	5.0			1.0								9.5				1.0				
WB-TS-20	301+04	RT	US 30	R4-7 (KEEP RIGHT)	2.0	2.5	2.0	2.5	5.0			1.0								9.5				1.0				
WB-TS-21	302+14	RT	US 30	R3-5L (LEFT TURN ONLY)	2.0	2.5	2.0	2.5	5.0																			
WB-PM-23a	307+06	RT	US 30	M3-4 (WEST)	2.0	1.0	2.0	1.0	2.0					2.0														
WB-PM-23b	307+06	RT	US 30	M1-1 (INTERSTATE/80)	2.0	2.0	2.0	2.0	4.0					4.0														
WB-PM-23c	307+06	RT	US 30	M6-1	1.8	1.3	1.8	1.3	2.2					2.2														
WB-TS-24	307+37	RT	US 30	R4-7 (KEEP RIGHT)	2.0	2.5	2.0	2.5	5.0			1.0								9.5				1.0				
WB-TS-25	308+70	RT	US 30	R3-8L (DUAL LEFT TURN ONLY)	2.0	2.5	2.5	2.5	6.3																			
WB-BS-26*	309+12	LT	US 30	INTERSTATE 80 WEST/IOWA	14.5	9.0	14.5	9.0			130.5					130.5		428.5	476.4						2.4	2.0	2.0	
WB-WP-26a	315+75	LT	US 30	W10-2	0.0	0.0	3.0	3.0	9.0													15.5						
WB-WP-26b	315+75	LT	US 30	D3-1 (OLD HICKORY RD)	0.0	0.0	4.5	0.8	3.4																			
WB-PM-28a	319+16	RT	US 30	M3-2 (EAST)	2.0	1.0	2.0	1.0	2.0					2.0														
WB-PM-28b	319+16	RT	US 30	M1-1 (INTERSTATE/80)	2.0	2.0	2.0	2.0	4.0					4.0														
WB-PM-28c	319+16	RT	US 30	M6-1	1.8	1.3	1.8	1.3	2.2					2.2														
WB-TS-29	319+28	LT	US 30	R4-7 (KEEP RIGHT)	2.0	2.5	2.0	2.5	5.0																			
WB-TS-30	321+00	RT	US 30	R3-8L (DUAL LEFT TURN ONLY)	2.5	3.0	2.5	3.0	7.5																			
WB-TS-31a	321+00	LT	US 30	M3-2 (EAST)	2.0	1.0	2.0	1.0	2.0				1.0							17.4								
WB-TS-31b	321+00	LT	US 30	M1-1 (INTERSTATE/80)	2.0	2.0	2.0	2.0	4.0																			
WB-TS-31c	321+00	LT	US 30	M6-1	1.8	1.3	1.8	1.3	2.2																			
WB-TS-32a	321+00	LT	US 30	M3-4 (WEST)	2.0	1.0	2.0	1.0	2.0																			
WB-TS-32b	321+00	LT	US 30	M1-1 (INTERSTATE/80)	2.0	2.0	2.0	2.0	4.0																			
WB-TS-32c	321+00	LT	US 30	M5-4 (LEFT/LANE)	2.0	1.3	2.0	1.5	3.0																			
WB-WP-32d	325+00	LT	US 30	W10-2	3.0	3.0	3.0	3.0	9.0					9.0								18.5						
WB-WP-32e	325+00	LT	US 30	D3-1 (OLD HICKORY RD)			4.5	0.8	3.4																			
WB-BS-33*	323+07	LT	US 30	INTERSTATE/80/WEST/IOWA/INTERSTATE 80/EAST/INDIANA	15.5	16.0	12.0	14.0			168.0					248.0		1027.1	1115.5						4.2	2.0	2.0	
WB-WP-34a	326+00	LT	US 30	M3-2 (EAST)	2.0	1.0	2.0	1.0	2.0				1.0									17.3						
WB-WP-34b	326+00	LT	US 30	M1-1 (INTERSTATE/80)	2.0	2.0	2.0	2.0	4.0																			
WB-WP-34c	326+00	LT	US 30	M5-1	1.8	1.3	1.8	1.3	2.2																			
WB-WP-35a	326+00	LT	US 30	M3-4 (WEST)	2.0	1.0	2.0	1.0	2.0																			
WB-WP-35b	326+00	LT	US 30	M1-1 (INTERSTATE/80)	2.0	2.0	2.0	2.0	4.0																			
WB-WP-35c	326+00	LT	US 30	M6-3	1.8	1.3	1.8	1.3	2.2																			
WB-PM-36a	329+91	LT	US 30	M2-1 (JCT)	1.8	1.3	2.5	1.3	3.1					2.2														
WB-PM-36b	329+91	LT	US 30	M1-1 (INTERSTATE/80)	2.0	2.0	3.0	3.0	9.0					4.0														
WB-TS-38	332+87	LT	US 30	R4-7 (KEEP RIGHT)	2.0	2.5	2.0	2.5	5.0			1.0								9.5				1.0				
WB-PM-39**	319+16	RT	US 30	X10-I100(CAUTION/WALK TIME/SHORTENED/WHEN TRAIN/APPROACHES)	0.0	0.0	1.5	1.5	2.3																			
WB-TS-40	30+19	RT	RAMP DA	R3-8	0.0	0.0	5.0	2.5		12.5										17.4								
WB-TS-40a	30+19	RT	RAMP DA	R5-1a (WRONG/WAY)			3.5	2.5	8.8																			
WB-BM-41	663+14	LT	I-80	RIGHT LANE/ENDS/1/2 MILE	0.0	0.0	10.0	6.0			60.0							276.0	253.5						1.4			
WB-TS-42	636+74	LT	I-80	W9-1L (RIGHT/LANE/ENDS)	0.0	0.0	4.0	4.0		16.0										16.7								
WB-TS-43	649+77	LT	I-80	W9-2L (LANE ENDS/MERGE/LEFT)	0.0	0.0	4.0	4.0		16.0										16.7								
WB-TS-44	30+19	LT	RAMP DA	R3-8	0.0	0.0	2.5	2.5	6.3											14.9								
WB-TS-44a	30+19	LT	RAMP DA	R5-1a (WRONG/WAY)			3.5	2.5	8.8																			
WB-TS-45	28+08	LT	RAMP DA	W1-8 (RIGHT CHEVRON)	0.0	0.0	1.5	2.0	3.0											12.0								
WB-TS-46	28+88	LT	RAMP DA	W1-8 (RIGHT CHEVRON)	0.0	0.0	1.5	2.0	3.0											12.0								
WB-TS-47	29+68	LT	RAMP DA	W1-8 (RIGHT CHEVRON)	0.0	0.0	1.5	2.0	3.0											12.0								
WB-TS-49	674+75	LT	I-80	W13-3 (EXIT/20 M.P.H.)	0.0	0.0	3.0	4.0		12.0										6.0				1.0				
WB-WP-50	17+27	RT	RAMP AD	R5-I100 (USE PROHIBITED)	0.0	0.0	4.0	5.0		20.0												17.5						
WB-PM-51**	320+74	LT	US 30	R10-I102 (NO/TURN/ON RED/ARROW)			2.0	2.5	5.0																			
WB-TS-52**	307+06	RT	US 30	R10-5 (LEFT ON/GREEN/ARROW/ONLY)	0.0	0.0	2.5	3.0	7.5																			
WB-TS-52a**	307+06	RT	US 30	R10-3b (PEDESTRIAN CROSSING SIGN)	0.0	0.0	0.8	1.0	0.8																			
WB-PM-53**	307+43	LT	US 30	R10-5 (LEFT ON/GREEN/ARROW/ONLY)	0.0	0.0	2.5	3.0	7.5																			
WB-PM-53a	317+60	RT	US 30	R3-5L (LEFT TURN ONLY)	0.0	0.0	2.0	2.5	5.0											14.5								
WB-PM-54**	319+49	LT	US 30	R10-I102 (NO/TURN/ON RED/ARROW)			2.0	2.5	5.0																			
WB-PM-54b**	319+49	LT	US 30	R10-5 (LEFT ON/GREEN/ARROW/ONLY)	0.0	0.0	2.5	3.0	7.5																			
WB-TS-55**	319+16	RT	US 30	R10-5 (LEFT ON/GREEN/ARROW/ONLY)	0.0	0.0	2.5	3.0	7.5																			
WB-TS-55b**	319+16	RT	US 30	R10-3b (PEDESTRIAN CROSSING SIGN)	0.0	0.0	0.8	1.0	0.8																			
WB-TS-56	713+82	LT	I-80	D10-3a (MILE 138.0)	1.0	5.0	1.0	5.0	5.0			1.0					1.0											
WB-TS-57a	303+79	RT	OLD HICKORY RD	R1-1 (STOP)	0.0	0.0	2.5	2.5	6.3											16.0								
WB-TS-57b	303+79	RT	OLD HICKORY RD	W4-4aP (TRAFFIC FROM LEFT DOES NOT STOP)	0.0	0.0	2.0	1.0	2.0																			
WB-WP-58a	671+25	LT	I-80	W1-11	0.0	0.0	4.0	4.0		16.0												20.2						
WB-WP-58b	671+25	LT	I-80	W13-1 (ADVISORY PLAQUE)	0.0	0.0	2.5	2.5	6.3																			
WB-WP-59a	724+00	LT	I-80	D9-2	0.0	0.0	4.0	4.0		16.0												18.9						
WB-WP-59b	724+00	LT	I-80	D9-I105	0.0	0.0	4.0	2.5		10.0																		
WB-WP-60a	29+25	RT	RAMP DA	D9-2	0.0	0.0	2.0	2.0	4.0													16.5						
WB-WP-60b	29+25	RT	RAMP DA	M6-1	0.0	0.0	1.8	1.3	2.2																			
WB-TS-61	646+50	LT	I-80	W4-2R	0.0	0.0	4.0	4.0		16.0										16.7								
**	308+51	LT	US 30	US RTE 30			1.5	5.0																				
**	320+74	LT	US 30	US RTE 30			1.5	5.0																				
**	320+74	LT	US 30	US RTE 30			1.5	5.0																				
**	320+81	RT	US 30	OLD HICKORY RD			1.5	7.0																				
	302+25	RT	OLD HICKORY RD	W1-1R	2.5	2.5						1.0																
NB-TS-01	302+25	RT	OLD HICKORY RD	W2-4	0.0	0.0	2.5	2.5	6.3											14.5								
NB-TS-02	303+78	RT	OLD HICKORY RD	W1-7	4.0	2.0	4.0	2.0	8.0			1.0								14.0	14.0							
SB-PM-01**	300+76	RT	OLD HICKORY RD	R8-8 (DO NOT/STOP/ON/TRACKS)	2.0	2.5	2.0	2.5	5.0																			
SB-PM-01a**	300+82	RT	OLD HICKORY RD	R8-8 (DO NOT/STOP/ON/TRACKS)	2.0	2.5	2.0	2.5	5.0																			
SB-PM-01b**	300+89	LT	OLD HICKORY RD	R8-8 (DO NOT/STOP/ON/TRACKS)	2.0	2.5	2.0	2.5	5.0					5.0														
SB-PM-02**	301+32	LT	OLD HICKORY RD	R10-6a (STOP/HERE/ON/RED)	2.0	2.5	2.0	2.5	5.0					5.0														
SB-PM-03**	301+32	LT	OLD HICKORY RD	R8-8 (DO NOT/STOP/ON/TRACKS)	2.0	2.5	2.0	2.5	5.0					5.0														
SB-PM-04**	301+32	LT	OLD HICKORY RD	R10-11A (NO/TURN/ON /RED)			2.5	3.0	7.5																			
	301+34	LT	OLD HICKORY RD	R10-11B (NO/TURN/ON RED)	3.0	3.0								9.0														
	301+39	RT	OLD HICKORY RD	R10-11B (NO/TURN/ON RED)	3.0	3.0								9.0														
SB-PM-05**	301+39	RT	OLD HICKORY RD	R8-8 (DO NOT/STOP/ON/TRACKS)	3.0	3.0	2.0	2.5	5.0					9.0														
SB-PM-05b**	301+39	RT	OLD HICKORY RD	R10-6a (STOP/HERE/ON/RED)	2.0	2.5	2.0	2.5	5.0																			
SB-TS-06	302+32	LT	OLD HICKORY RD	W10-1 (GRADE CROSSING ADVANCE WARNING)			3.0 DIA.		7.1											16.0								
SB-TS-07a	303+01	LT	OLD HICKORY RD	R1-1 (STOP)	4.0	4.0	2.5	2.5	6.3				1.0							16.0								
SB-TS-07b	303+01	LT	OLD HICKORY RD	W4-4aP (TRAFFIC FROM RIGHT DOES NOT STOP)			2.0	1.0	2.0																			
TOTAL									565.6	381.0	1825.0	32.0	23.0	73.6	32.0	1751.5	6.0	11989.0		800.6		465.9		7.0	28.1	19.0	19.0	2.0
ROUNDED TOTAL									566	381	1825	32	23	74	32	1752	6	11990		801		466		7	29	19	19	2

* EXISTING SIGN DIMENSIONS NOT AVAILABLE; PROPCSED SIGN DIMENSIONS USED

**SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF SIGNS

LIN ENGINEERING,LTD.
Consulting Engineers
Springfield, Illinois
Westmont, Illinois

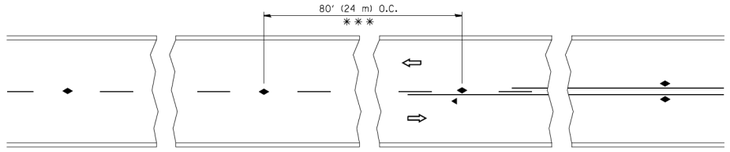
USER NAME = Plotted by lm44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 6/4/2018	DATE - 06/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING SCHEDULE
F.A.I. 80 / US 30 INTERCHANGE

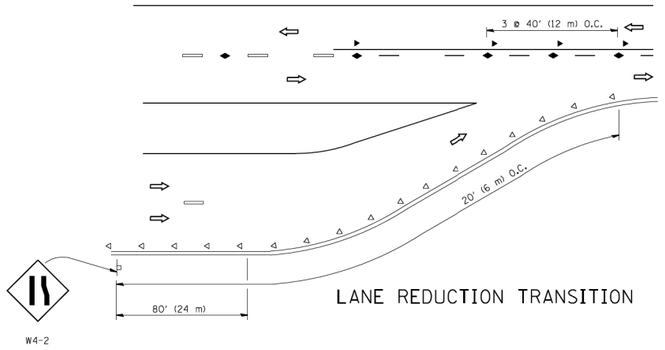
SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	339
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

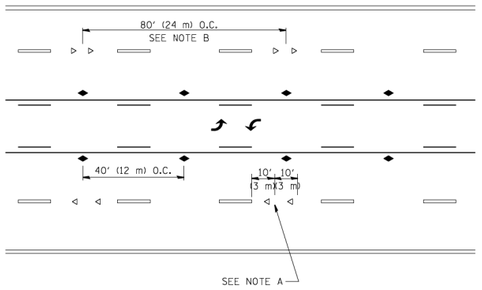


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

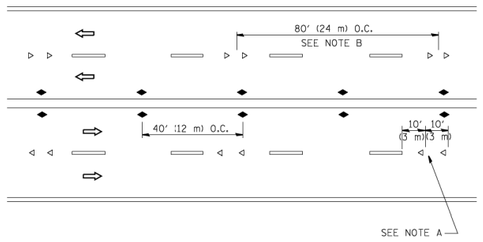
TWO-LANE/TWO-WAY



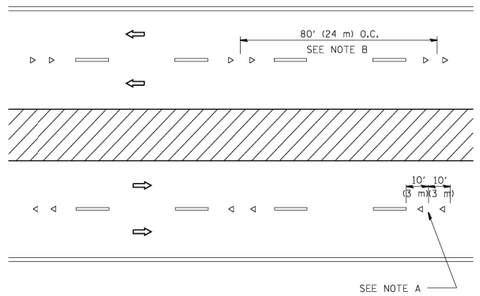
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

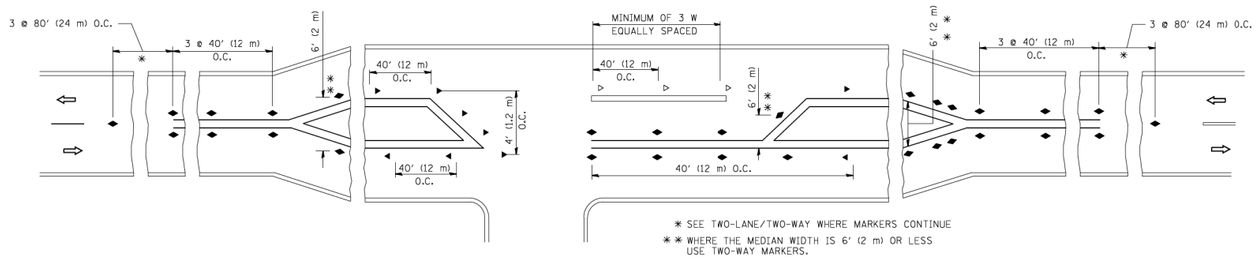
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

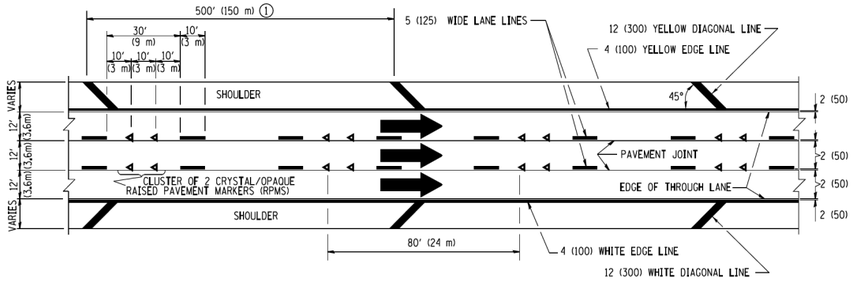
** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\pw_work\pwidot\leysa\d0108315\tcll.dgn	USER NAME = leysa	DESIGNED -	REVISED -T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -T. RAMMACHER 03-12-99								
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00					TC-11	CONTRACT NO.		
	PLOT DATE = 3/2/2011	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

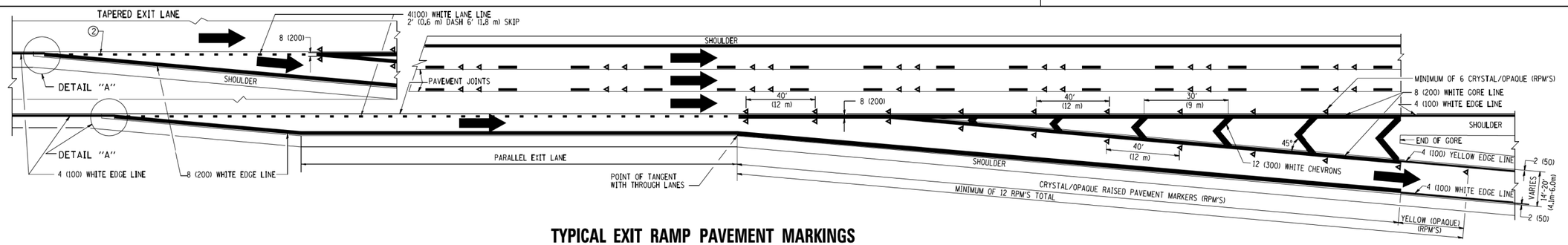
LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - XXX	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD PAVEMENT MARKING AND SIGNING DETAILS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - XXX	REVISED -				80	99-4-1VB-1-R	WILL	840	340
	PLOT SCALE = 0.4000 ' / in.	CHECKED - XXX	REVISED -					TC 11	CONTRACT NO. 60N87		
	PLOT DATE = 6/4/2018	DATE - 01/2018	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



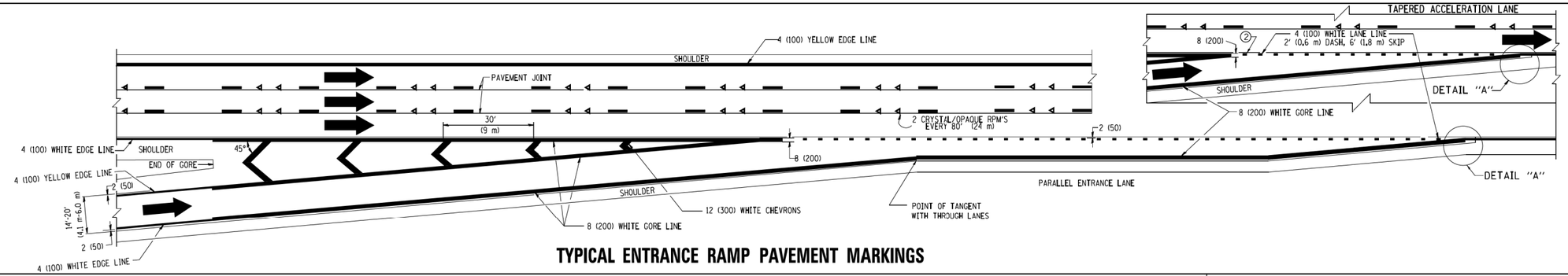
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

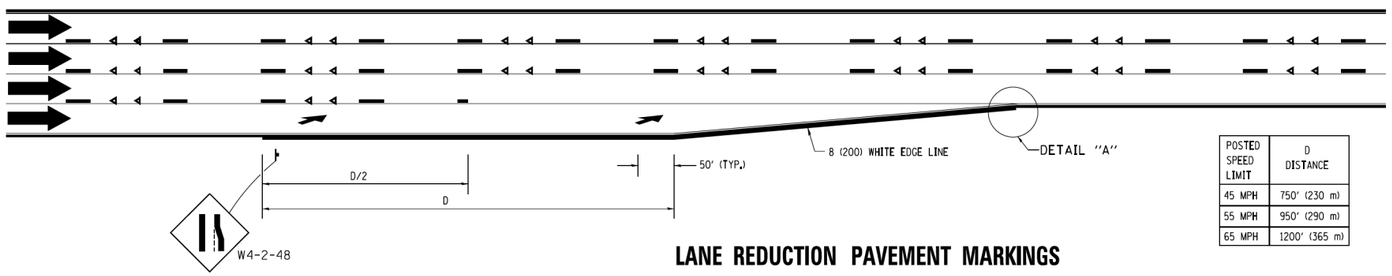
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLAID OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

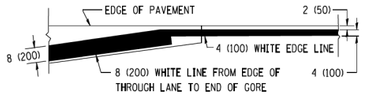


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

LANE REDUCTION PAVEMENT MARKINGS



NOTES:

① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.

② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06
c:\pw_work\pwidot\footemj\d0108315\tcl12.dgn		DRAWN -	REVISED - S.P.B. 01-07
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - S.P.B. 01-10
	PLOT DATE = 7/8/2013	DATE - 01-90	REVISED - M.D. 05-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

SCALE: NONE | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-12	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

v12.4ex 7/8/2013 8:14:37 AM User: footemj

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Consulting Engineers
Chatham, Illinois
Westmont, Illinois

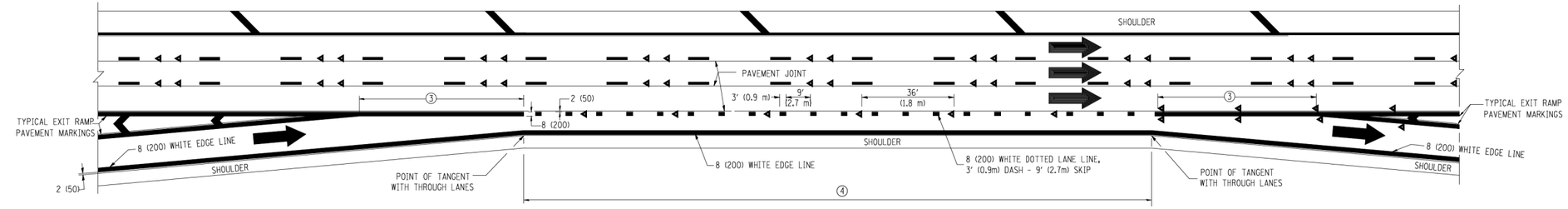
USER NAME = Plotted by lin44	DESIGNED - XXX	REVISED -
	DRAWN - XXX	REVISED -
PLOT SCALE = 0.4000 ' / in.	CHECKED - XXX	REVISED -
PLOT DATE = 6/4/2018	DATE - 01/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

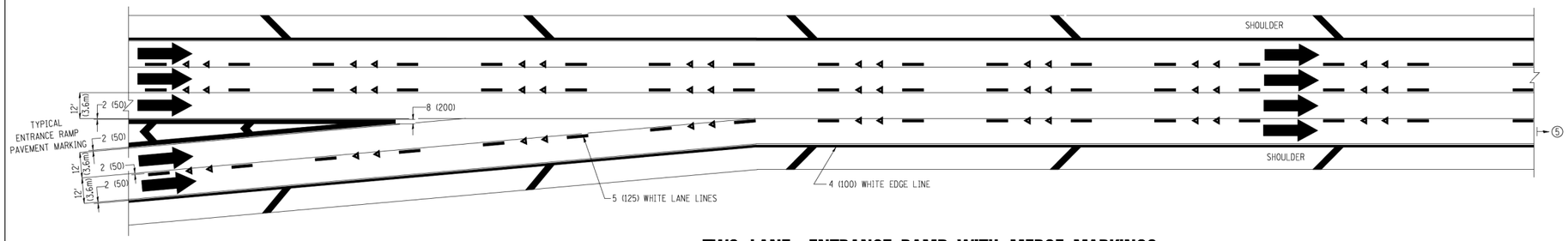
DISTRICT 1
STANDARD PAVEMENT MARKING AND SIGNING DETAILS

SCALE: N.T.S. | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

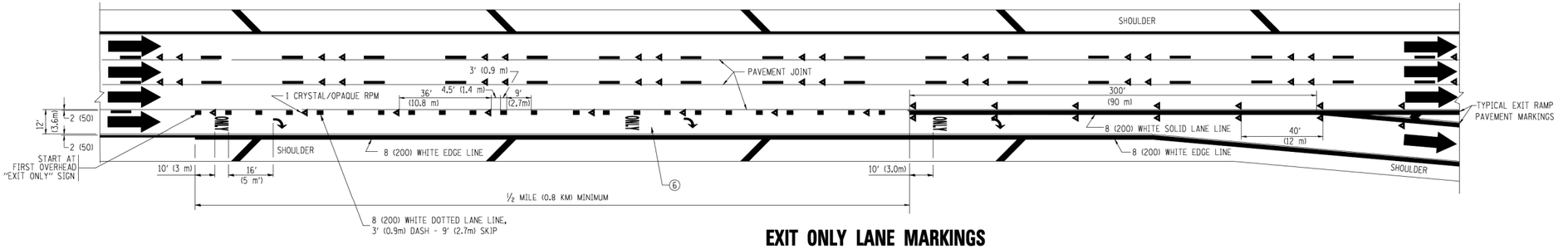
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	341
	TC 12a	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



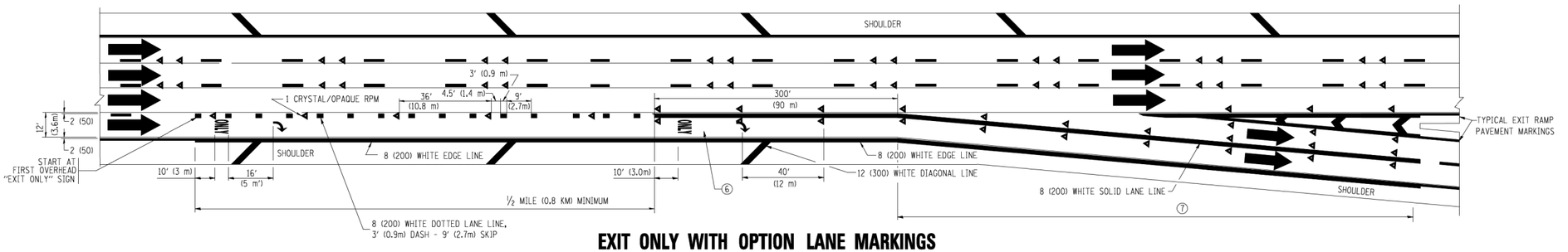
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

NOTES

③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).

④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.

⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.

⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.

⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME = c:\pw_work\PWIDOT\LEYSA\d0180315\tc12.dgn	USER NAME = leysa	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.3. 01-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY
PAVEMENT MARKING DETAILS

SCALE: NONE | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-12	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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Consulting Engineers
Chatham, Illinois
Westmont, Illinois

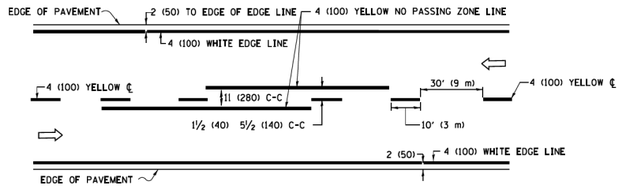
USER NAME = Plotted by lin44	DESIGNED - XXX	REVISED -
	DRAWN - XXX	REVISED -
PLOT SCALE = 0.4000 ' / in.	CHECKED - XXX	REVISED -
PLOT DATE = 6/4/2018	DATE - 01/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

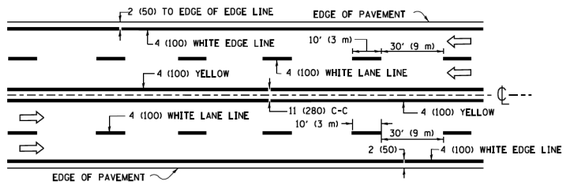
DISTRICT 1
STANDARD PAVEMENT MARKING AND SIGNING DETAILS

SCALE: N.T.S. | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

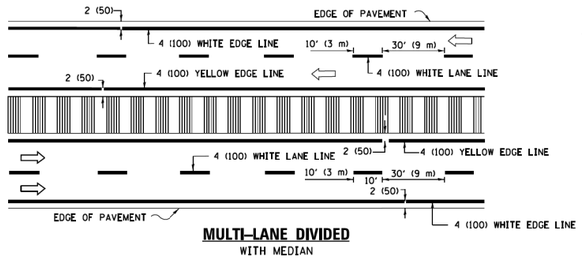
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	342
	TC 12b	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2–LANE ROADWAY

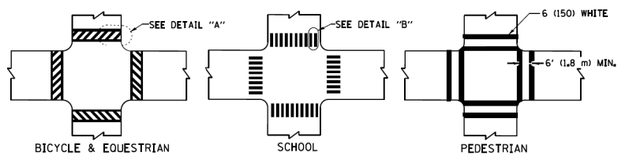


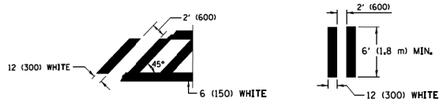
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

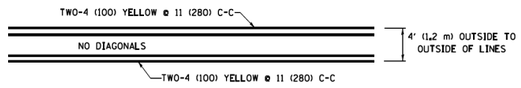




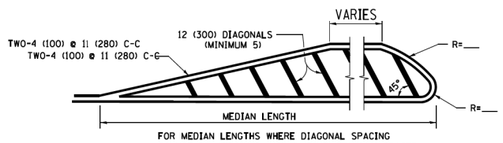
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



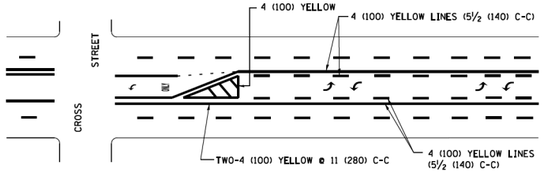
4' (1.2 m) WIDE MEDIANS ONLY



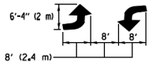
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

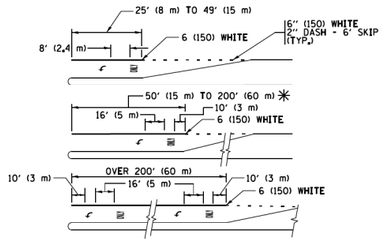


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

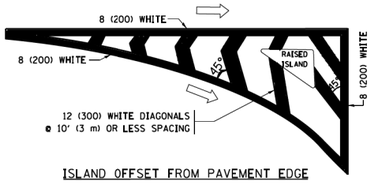


FULL SIZE LETTERS 8' (2,4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1,5 m^2) ONLY AREA = 20.8 SQ. FT. (1,9 m^2)

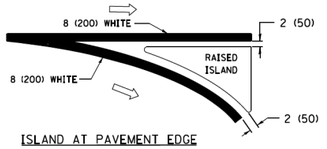
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

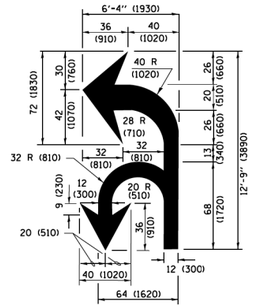


ISLAND OFFSET FROM PAVEMENT EDGE

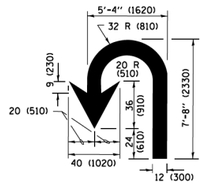


ISLAND AT PAVEMENT EDGE

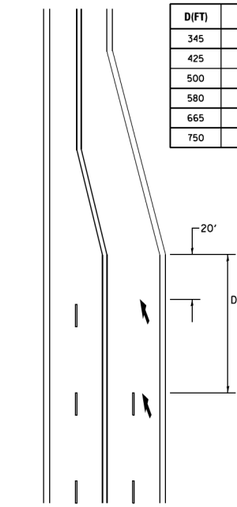
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ⊛ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ⊛ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1,8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2,4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⊛ 4 (100) EACH DIRECTION 8' (2,4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⊛ 6 (150) 12 (300) ⊛ 45° 12 (300) ⊛ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1,8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⊛ 4 (100) WITH 12 (300) DIAGONALS ⊛ 45° NO DIAGONALS USED FOR 4' (1,2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⊛ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1,8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3,6 SQ. FT. (0,33 m^2) EACH "X"=54,0 SQ. FT. (5,0 m^2)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) ⊛ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

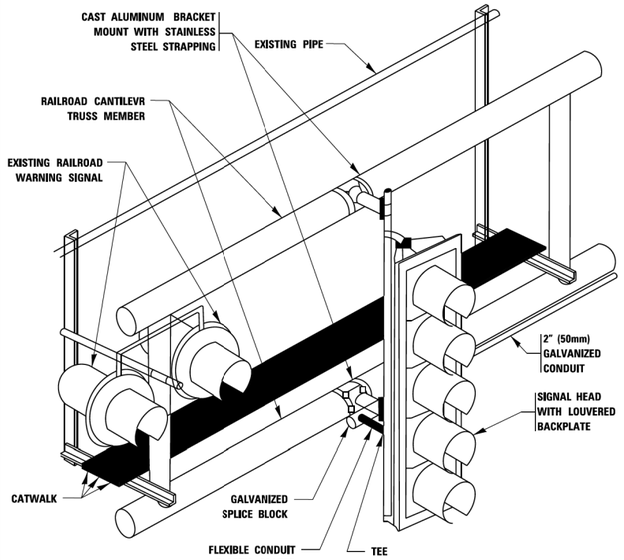
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = pw:\\IL884EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Distr...\DRAWN\CADData\CADsheets\tc13.dgn	USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13	
Default	PLOT DATE = 4/13/2016	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15	
			REVISED - C. JUCIUS 04-12-16	

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC–13	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



RAILROAD CANTILEVER SIGNAL HEAD MOUNTING

USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION

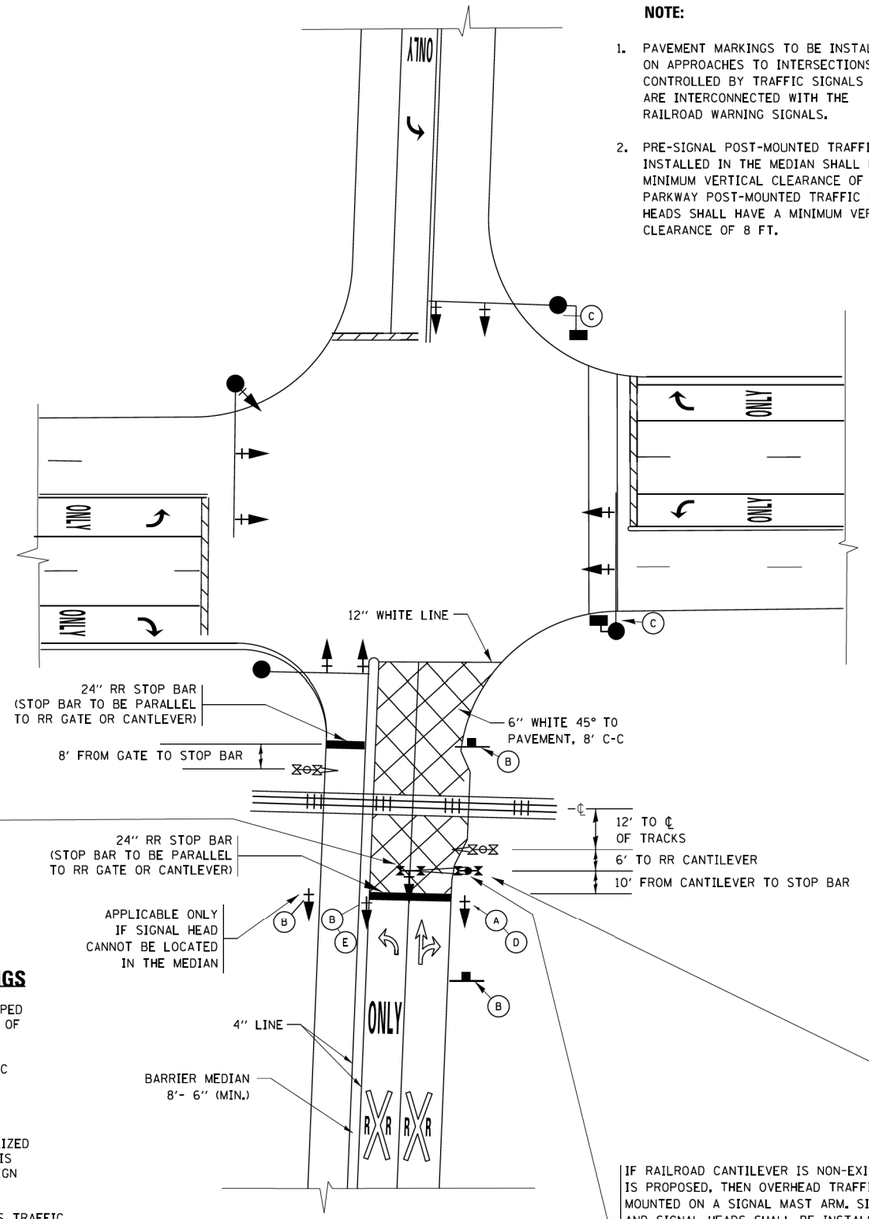
N.T.S.

SIGNING AND PAVEMENT MARKING AT RAILROAD CROSSINGS

SIGNING AND PAVEMENT MARKING TRAFFIC CONTROL STANDARD (TC-23) HAS BEEN DEVELOPED IN CONSULTATION WITH THE ILLINOIS COMMERCE COMMISSION AND THE U.S. DEPARTMENT OF TRANSPORTATION'S GRADE CROSSING SAFETY TASK FORCE. THIS STANDARD PROVIDES INFORMATION ON UPDATES TO THE PAVEMENT MARKING AND SIGNING DETAILS IN ORDER TO INCORPORATE CHANGES ADOPTED IN THE 2009 NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). THESE NEW DETAILS HAVE BEEN STUDIED AND TESTED BY THE DEPARTMENT AND ACCEPTED BY THE ILLINOIS COMMERCE COMMISSION.

THIS APPLIES TO PROJECTS WHICH INCLUDE RAILROAD INTERCONNECTED TRAFFIC SIGNALS, WITH OR WITHOUT PRE-SIGNALS. THIS STANDARD ALSO APPLIES TO NON-SIGNALIZED INTERSECTIONS THAT ARE WITHIN 81 FEET OF A RAILROAD GRADE CROSSING. THE ILLINOIS SUPPLEMENT TO THE MUTCD SHOULD BE CONSULTED FOR ADDITIONAL INFORMATION ON SIGN REQUIREMENTS AT NON-SIGNALIZED INTERSECTIONS NEAR RAILROAD GRADE CROSSINGS.

THESE DETAILS WILL BE INCLUDED IN A FUTURE UPDATE TO THE BUREAU OF OPERATIONS TRAFFIC POLICIES AND PROCEDURES MANUAL.

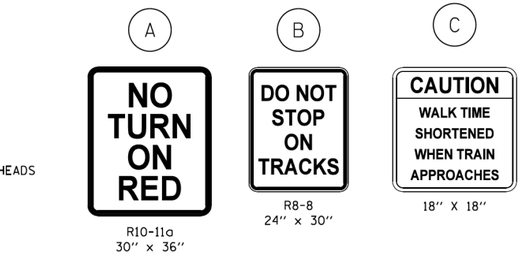


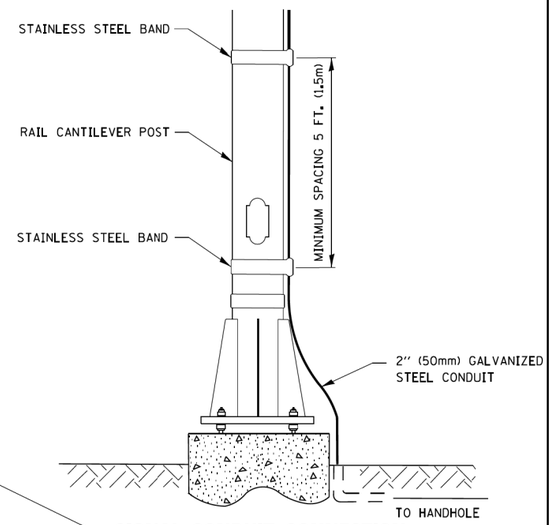
SIGNALIZED INTERSECTION WITH NEAR-SIDE TRAFFIC SIGNAL

NOTE:

1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. PRE-SIGNAL POST-MOUNTED TRAFFIC SIGNAL HEADS INSTALLED IN THE MEDIAN SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 4.5 FT. PARKWAY POST-MOUNTED TRAFFIC SIGNAL HEADS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8 FT.

IF RAILROAD CANTILEVER IS NON-EXISTANT AND NONE IS PROPOSED, THEN OVERHEAD TRAFFIC SIGNAL TO BE MOUNTED ON A SIGNAL MAST ARM. SIGNAL MAST ARM AND SIGNAL HEADS SHALL BE INSTALLED AS CLOSE AS PRACTICABLE TO THE RAILROAD TRACKS WITHOUT OBSTRUCTING ANY RAILROAD WARNING DEVICES. SIGNAL MAST ARM SHALL BE AT LEAST 12 FT. FROM NEAREST RAIL.





SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL

USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = p:\\IL884EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist-Standards\CADDeta\CADsheets\tc23.dgn	USER NAME = footemj	DESIGNED -	REVISED - 02-25-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - A.R. 07-11-16		SCALE: NONE / SHEET 1 OF 2 SHEETS / STA. / TO STA.
Default	PLOT DATE = 1/3/2017	DATE -	REVISED -		

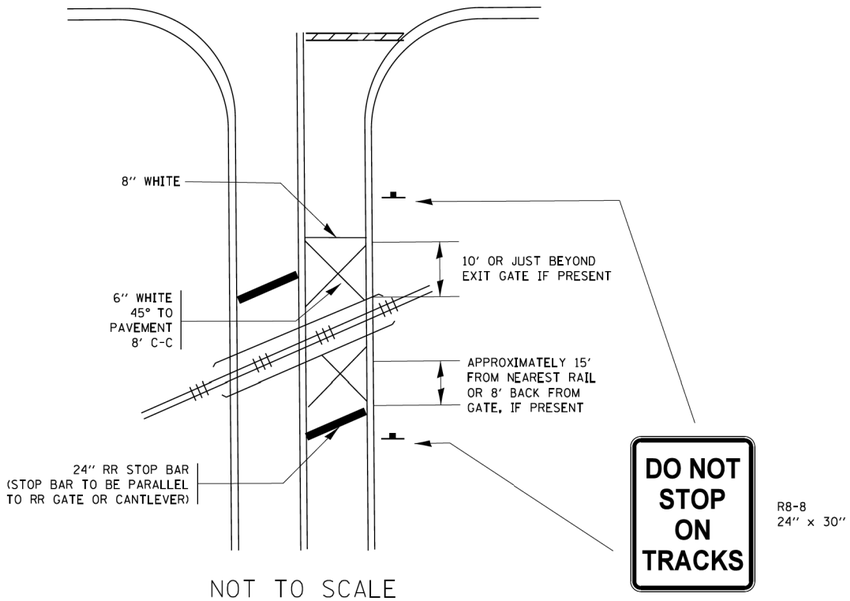
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-23	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - XXX	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD PAVEMENT MARKING AND SIGNING DETAILS
		DRAWN - XXX	REVISED -		
	PLOT SCALE = 0.4000 ' / in.	CHECKED - XXX	REVISED -		SCALE: N.T.S. / SHEET NO. 5 OF 6 SHEETS / STA. / TO STA.
	PLOT DATE = 6/4/2018	DATE - 01/2018	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	344
	TC 23	CONTRACT NO. 60N87		
	FED. ROAD DIST. NO. 1 / ILLINOIS / FED. AID PROJECT			

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS

WITH SIGNALIZED INTERSECTION



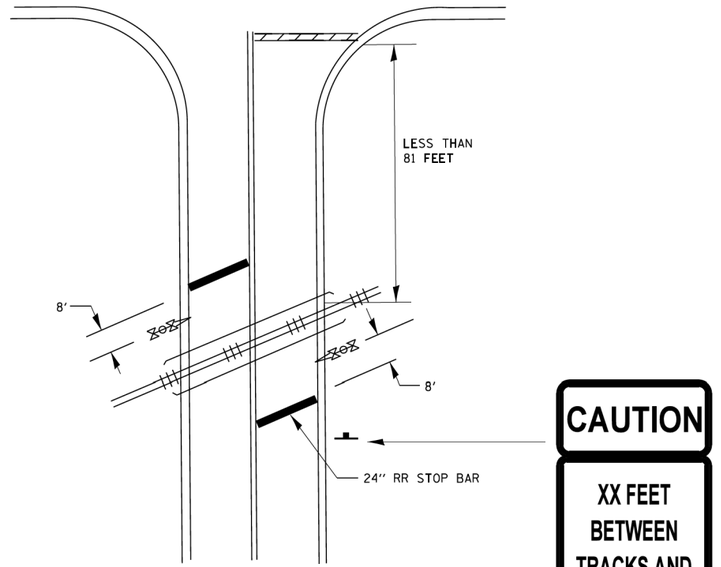
NOT TO SCALE

NOTE:

1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.

2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION. (SEE DETAIL FOR PRE-SIGNALS).

WITH NON–SIGNALIZED INTERSECTION
81' OR LESS TO CLOSEST RAIL



NOTE:

1. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.

2. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKING EXTEND TO THE INTERSECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\Default	USER NAME = footemj	DESIGNED -	REVISED - 02-25-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS
		DRAWN -	REVISED - 04-26-12		
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - A.R. 07-11-16		SCALE: NONE | SHEET 2 OF 2 SHEETS | STA. | TO STA.
	PLOT DATE = 1/3/2017	DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-23	CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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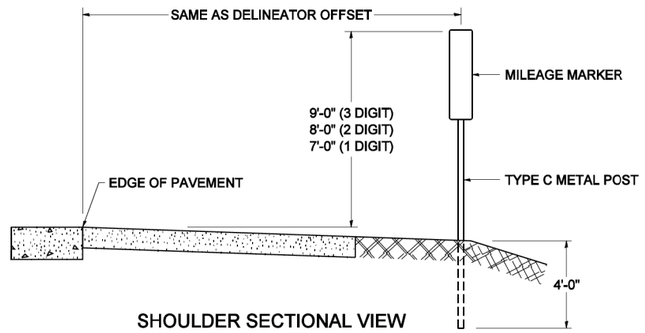
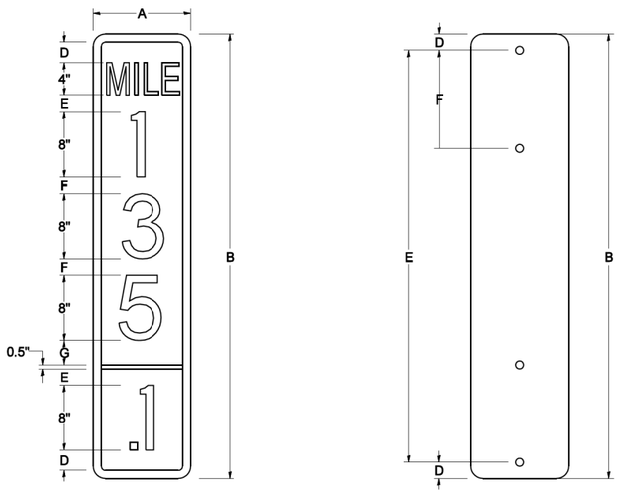
LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - XXX	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD PAVEMENT MARKING AND SIGNING DETAILS
		DRAWN - XXX	REVISED -		
	PLOT SCALE = 0.4000 ' / in.	CHECKED - XXX	REVISED -		SCALE: N.T.S. | SHEET NO. 6 OF 7 SHEETS | STA. | TO STA.
	PLOT DATE = 6/4/2018	DATE - 01/2018	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	345
	TC 27	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

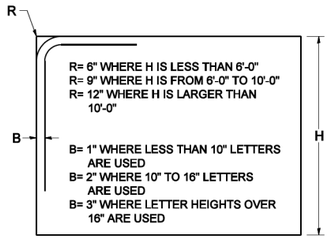


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

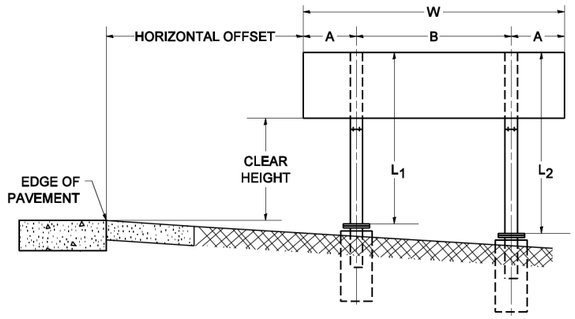
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES LINES					BORDER	BLANK STD.
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

BORDER AND RADIUS LAYOUT



MAJOR GUIDE SIGN LAYOUT

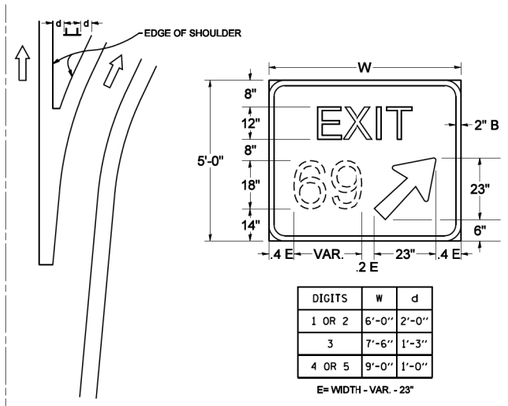


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

"L_1" IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.

"A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

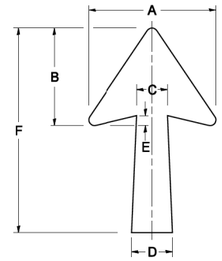
GORE SIGNS



DIGITS	W	d
1 OR 2	6'-0"	2'-0"
3	7'-6"	1'-3"
4 OR 5	9'-0"	1'-0"

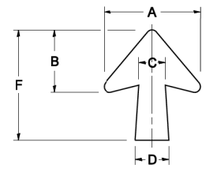
E= WIDTH - VAR. - 23"

STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



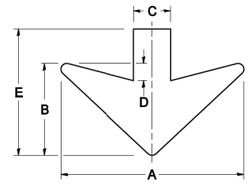
ARROW SYMBOL	A	B	C	D	E	F	R
24¼ x 15⅛	15⅛	11⅜	3¾	5	1⅝	24¼	⅝
29¼ x 18¼	18¼	14	4½	6	1½	29¼	¾
35⅝ x 22¼	22¼	17	5⅜	7⅛	1¾	35⅝	1
18¼ x 11¼	11¼	8¾	3⅛	3⅞		18¼	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS



ARROW SYMBOL	A	B	C	D	E	F	R
17¼ x 14¼	14¼	9⅛	3⅜	4½	1⅝	17¼	¾
20¼ x 17¼	17¼	11¾	4⅜	5⅝	1½	20¼	
25 x 21⅞	21⅞	14¼	5	6¾	1¾	25	1
9⅜ x 8⅛	8⅛	5⅞	2⅝	2⅝		9⅜	½

DOWN ARROWS



ARROW SYMBOL	A	B	C	D	E	R
16½ x 24	24	12	5	1½	16½	¾
22 x 32	32	16	6½	3	22	1

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		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/4/2009	DATE - 03-08-1984	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MILE POST MARKERS – GORE SIGNS
MAJOR GUIDE SIGN LAYOUT – ARROWS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-27 (TS-2341-1)	CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

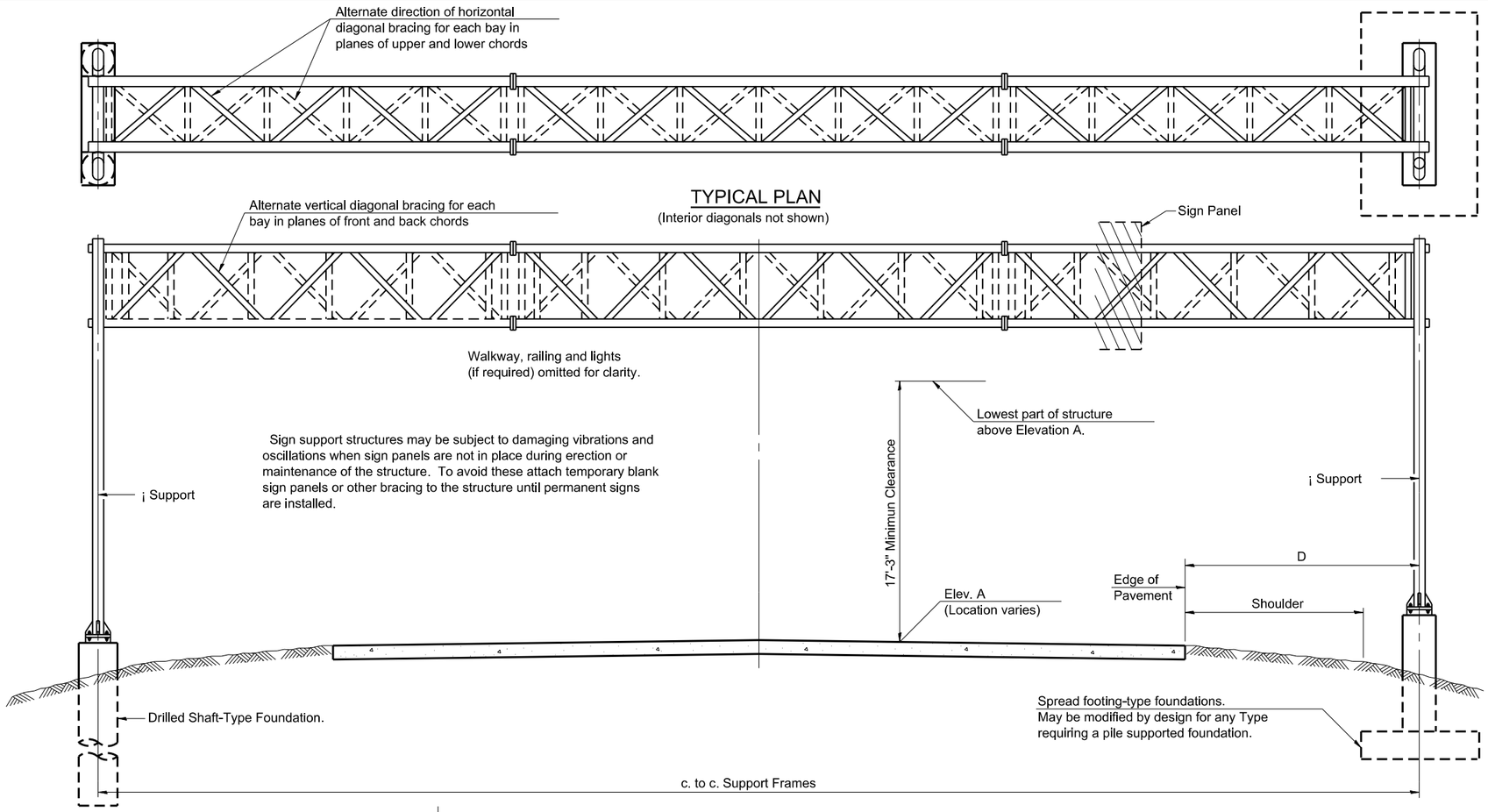
USER NAME = Plotted by lin44	DESIGNED - XXX	REVISED -
	DRAWN - XXX	REVISED -
PLOT SCALE = 0.4000 ' / in.	CHECKED - XXX	REVISED -
PLOT DATE = 6/4/2018	DATE - 01/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD PAVEMENT MARKING AND SIGNING DETAILS

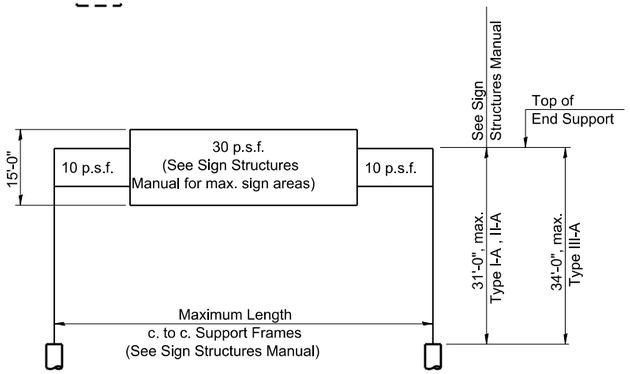
SCALE: N.T.S. | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	346
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TYPICAL PLAN

(Interior diagonals not shown)



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TYPICAL ELEVATION

(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
IS099I080L137.7	*671+15*	*I-A*	*88'-0"*	*646.93*	*17'-1"*	*10'-0"*	*256.25 sf*

**Looking upstation for structures with signs both sides.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	*88*
OVERHEAD SIGN STRUCTURE SPAN TYPE II-A	Foot	
OVERHEAD SIGN STRUCTURE SPAN TYPE III-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	
CONCRETE FOUNDATIONS	Cu. Yds.	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	*27.2*

OS-A-1 2-17-2017

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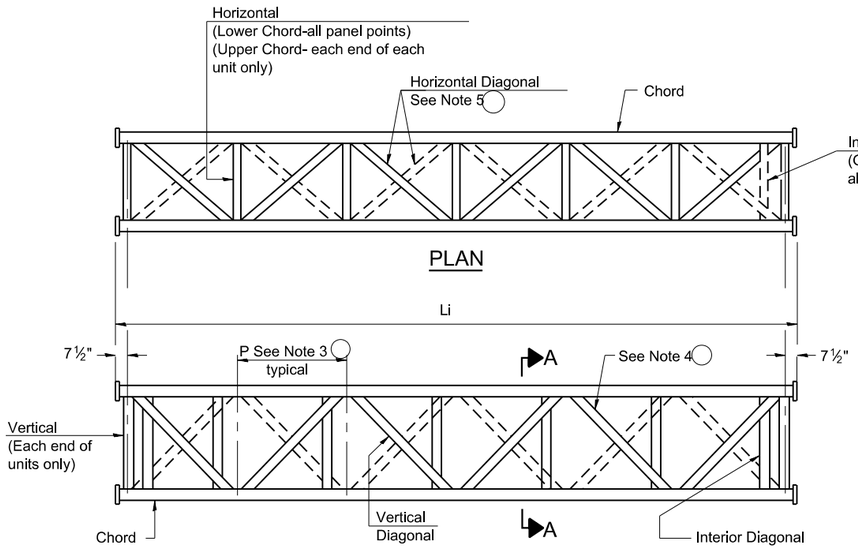
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

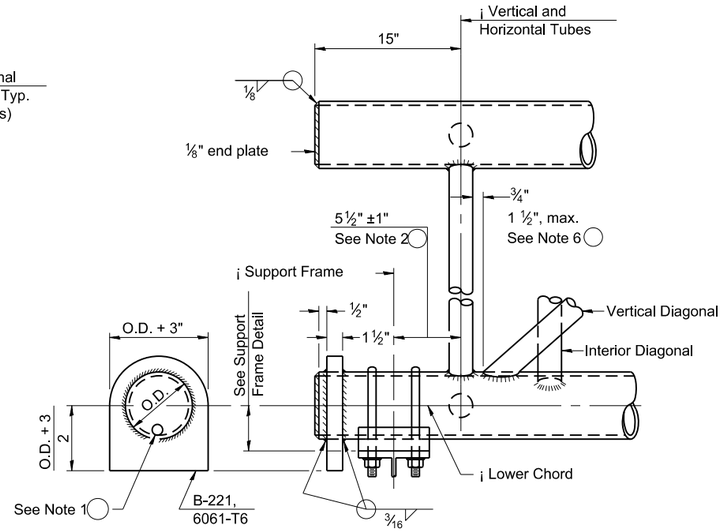
OVERHEAD SIGN STRUCTURES – GENERAL PLAN & ELEVATION – ALUMINUM TRUSS & STEEL SUPPORTS

SHEET NO. 1 OF 10 SHEETS

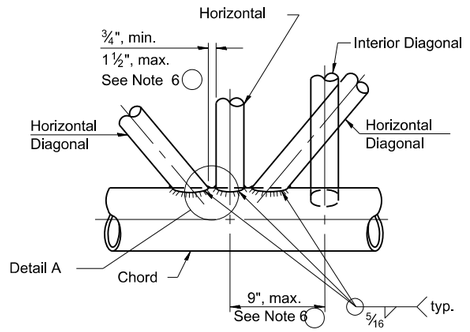
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	347
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			

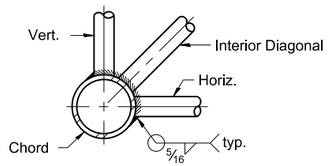


ELEVATION
TYPICAL INTERIOR UNIT
Even number of panels/interior unit required.

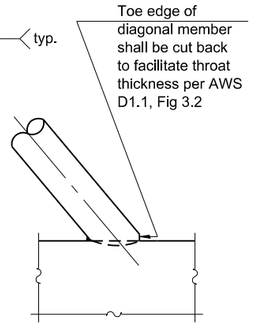


SUPPORT END DETAIL FOR EXTERIOR UNIT

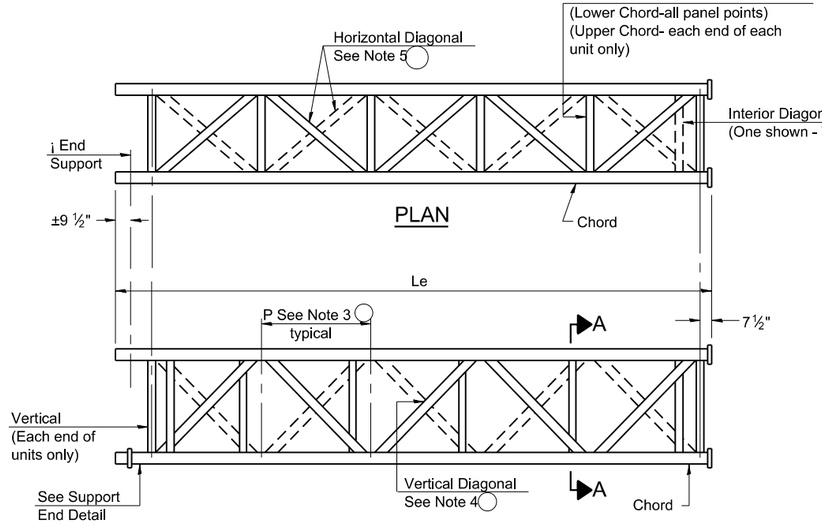




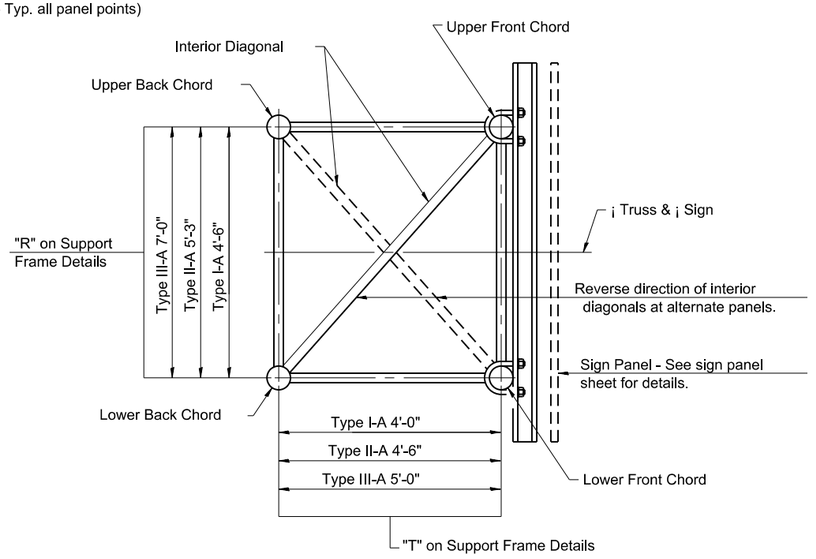
TYPICAL JOINT DETAILS



DETAIL A



ELEVATION
TYPICAL EXTERIOR UNIT
Even or odd number of panels/exterior units allowed.



SECTION A-A

1. Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
2. 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
3. Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
4. Vertical Diagonals in front and back face shall alternate.
5. Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
6. All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1 ½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

OS-A-2 2-17-2017

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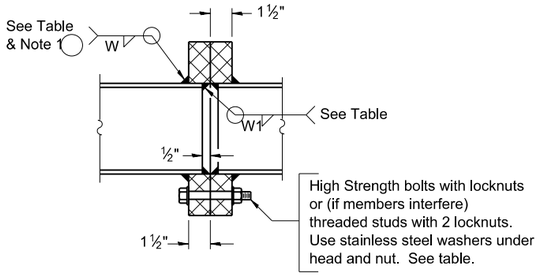
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I–A, II–A AND III–A
SHEET NO. 2 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	348
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			

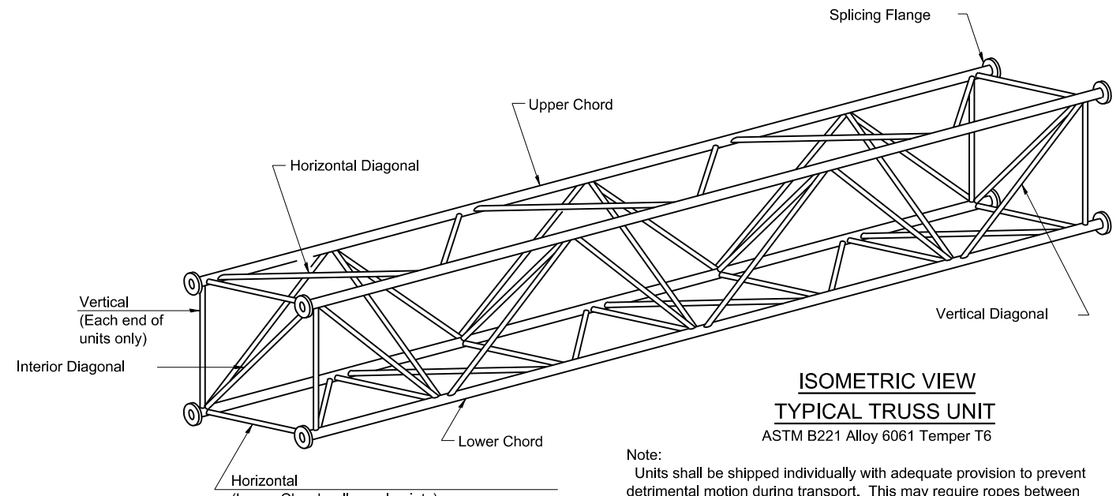
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical,Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(Le)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(Li)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W1		
IS099I080L137.7	671+15	I-A	6	30'-1½"	4'-8½"	1	6	29'-6"	4'-8½"	5"	5/16"	2½"	5/16"	2 5/8"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"



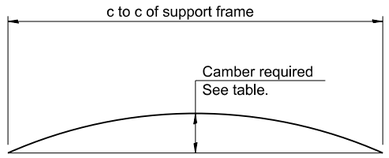
SECTION B-B

(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

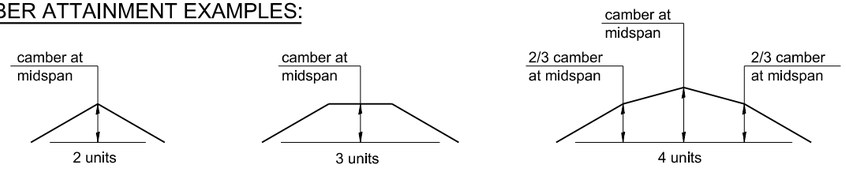
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



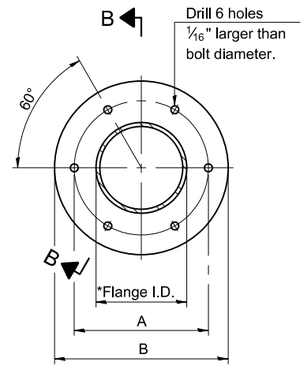
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

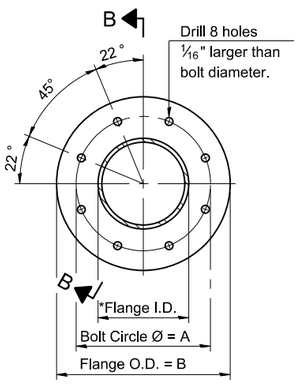
CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A, II-A, & III-A

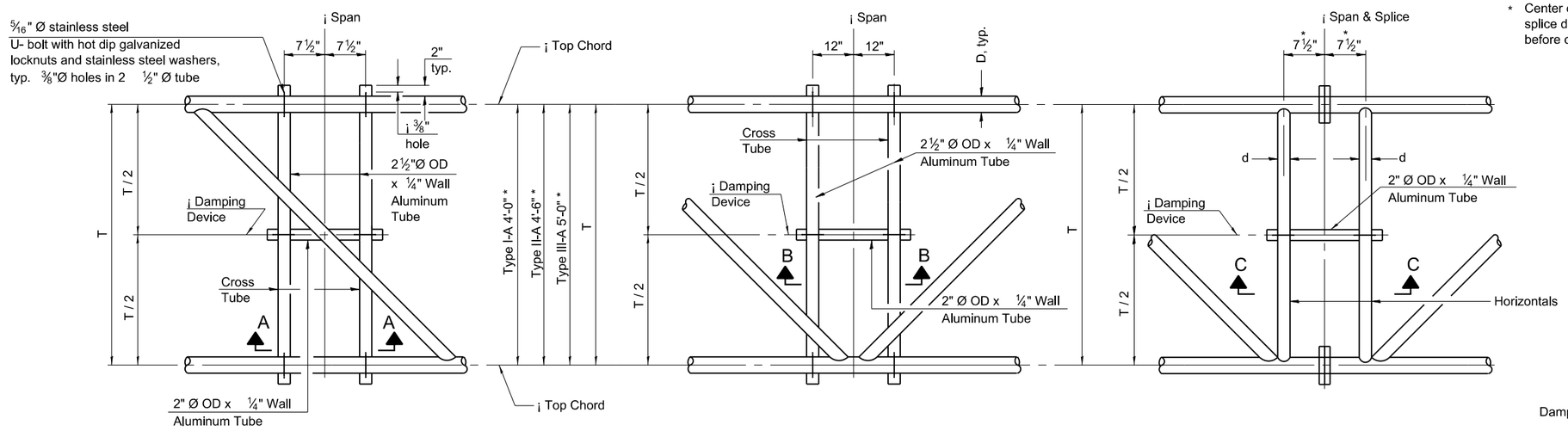


TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".

OS4-A-2 2-17-2017



PLAN DETAIL "A"
℄ Span between Panel Points

PLAN DETAIL "B"
℄ Span at Panel Point

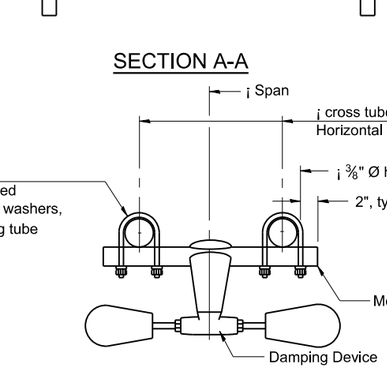
PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

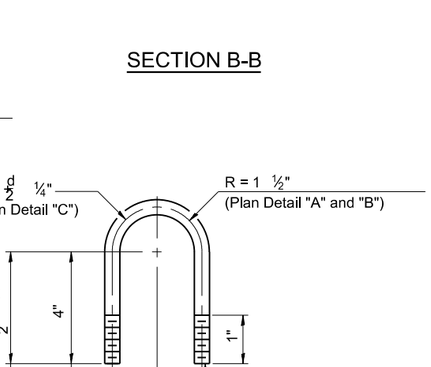
NOTES

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

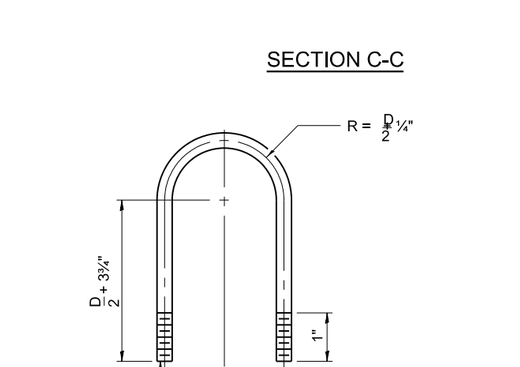
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



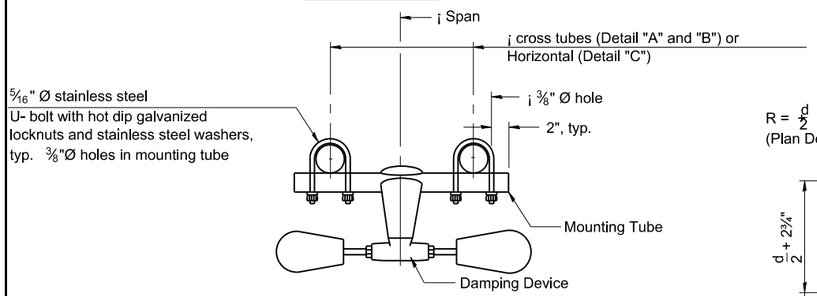
SECTION A-A



SECTION B-B



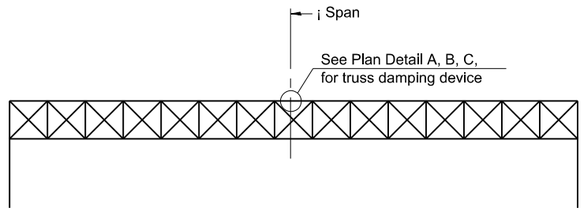
SECTION C-C



TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)

DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)

TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")



ELEVATION
Aluminum Overhead Sign Truss

OS-A-D 2-17-2017

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OVERHEAD SIGN STRUCTURE
DAMPING DEVICE
SHEET NO. 4 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	350
		CONTRACT NO. 60N87		
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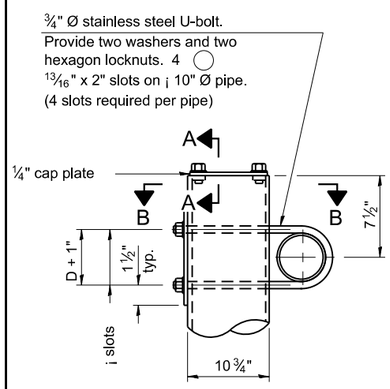
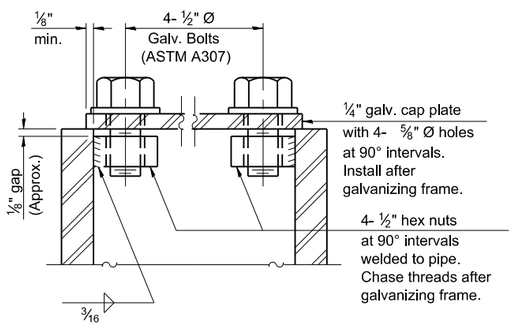
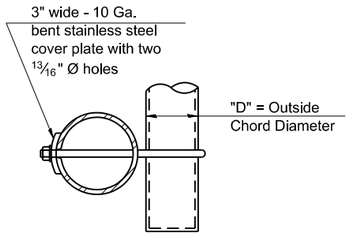


DETAIL A

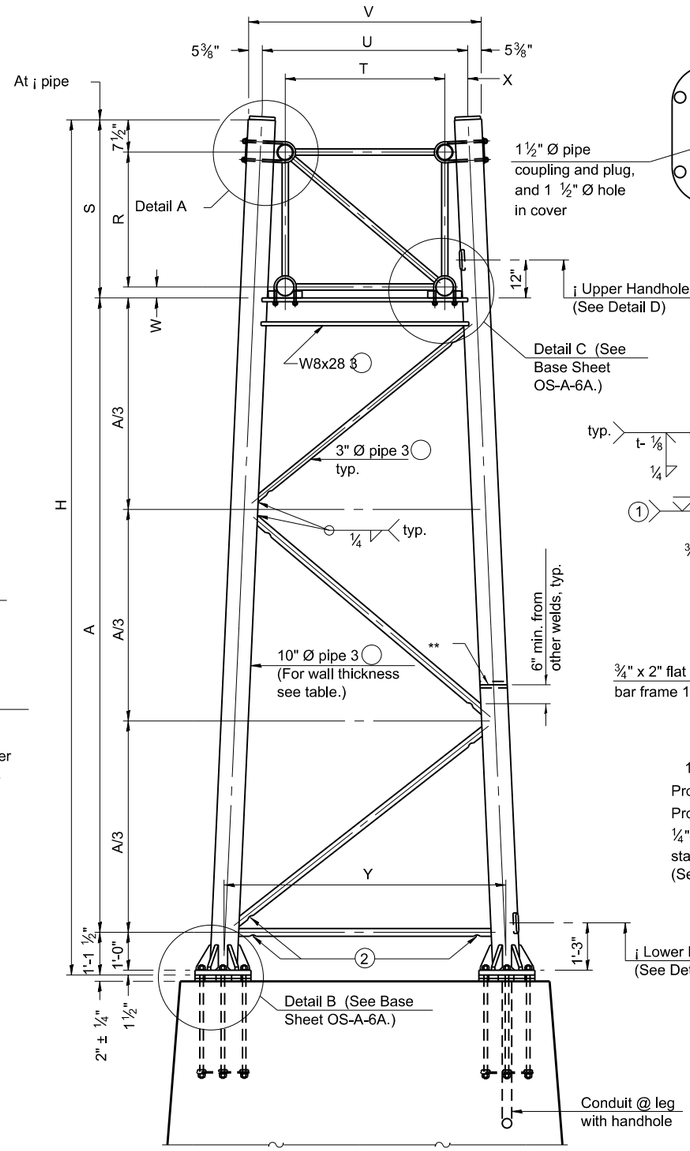


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

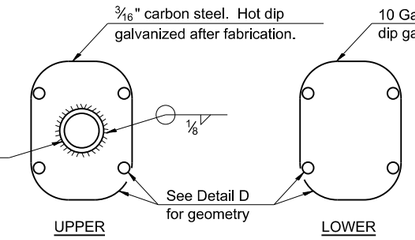


SECTION B-B

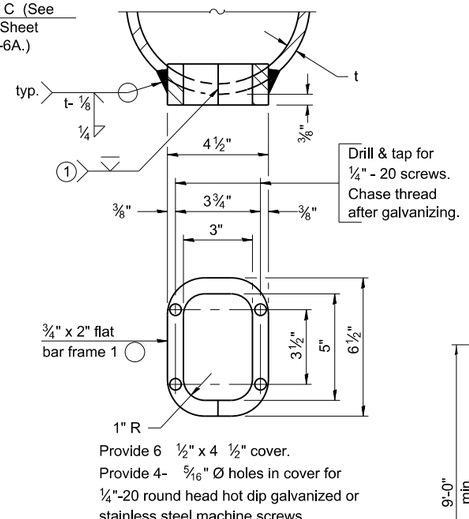


For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

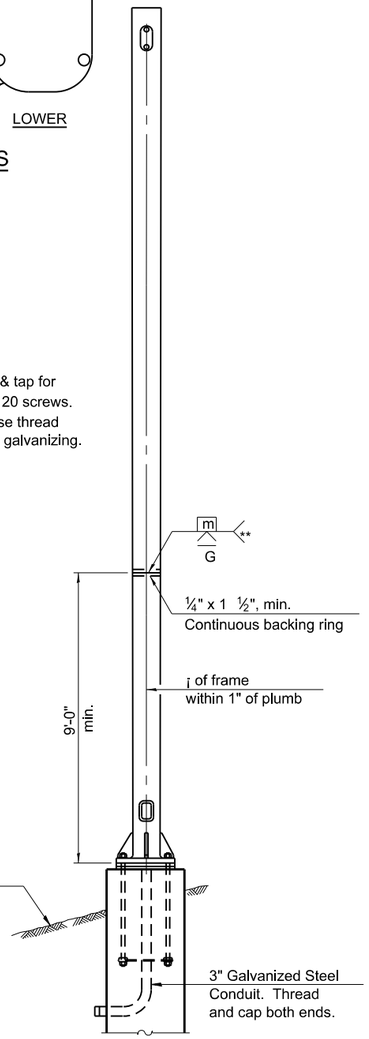


HANDHOLE COVERS



Provide 6 ½" x 4 ½" cover.
Provide 4- 5/16" Ø holes in cover for ¼"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D



END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

1. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.
2. Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
3. Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
4. See General Notes for fasteners.
5. Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
6. "H" based on 15'-0" or actual sign height, whichever is greater.

Truss Type	Dimensions							
	R	S	T	U	V	W	X	Y
I-A	4'-6"	5'-5 ½"	4'-0"	5'-6"	6'-4 ¾"	4"	9"	8'-3"
II-A 5	5'-3"	6'-3 ¼"	4'-6"	6'-1"	6'-11 ¾"	4¾"	9½"	8'-3"

10" Ø PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (6)	A
		Left	Right				
IS099I080L137.7	*671+15*	*x*	-	*I-A*	*0.279"*	*24'-5"*	*17'-10"*
IS099I080L137.7	*671+15*	-	*x*	*I-A*	*0.279"*	*27'-11"*	*21'-4"*

OS-A-6 2-17-2017

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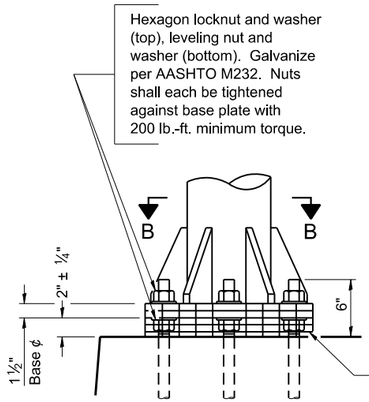
DEPARTMENT OF TRANSPORTATION

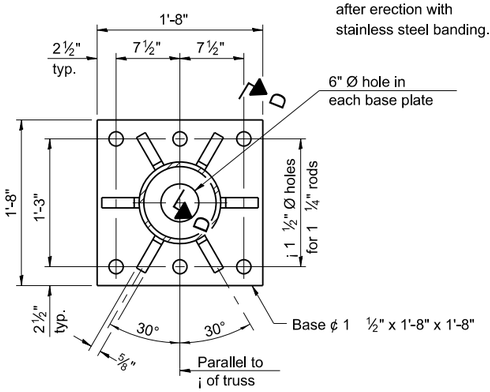
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR ALUMINUM TRUSS
SHEET NO. 5 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	351
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			

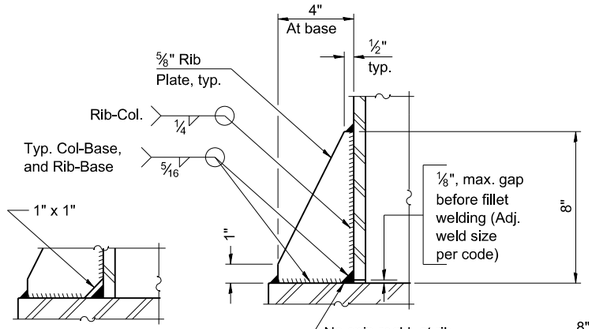


DETAIL B

Ribs shall be cut to fit slope of pipe.

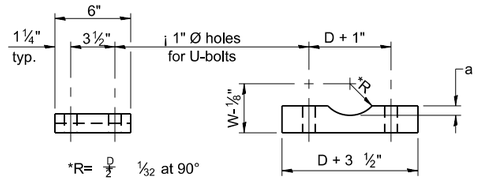


SECTION B-B



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib ¼" from snip.

SECTION D-D



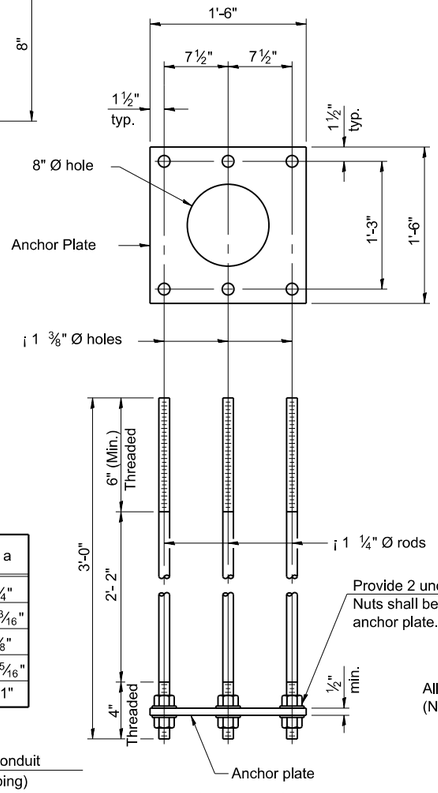
*R= D/2 1/32 at 90°

D = Outside Diameter of Chord.
For W, see Base Sheet OS-A-6.

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

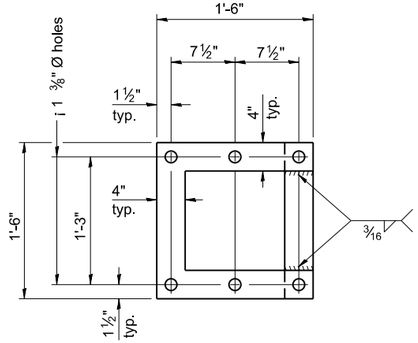
Truss Chord Nominal Dia.	a
5"	¾"
5½"	13/16"
6"	⅞"
6½"	15/16"
7"	1"



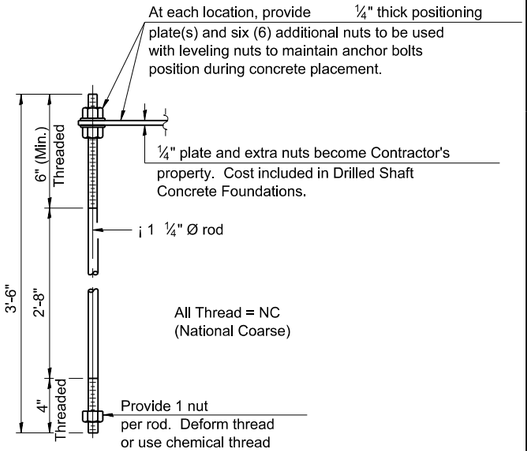
All Thread = NC
(National Coarse)

ANCHOR ROD DETAIL

Spread Footing Foundation



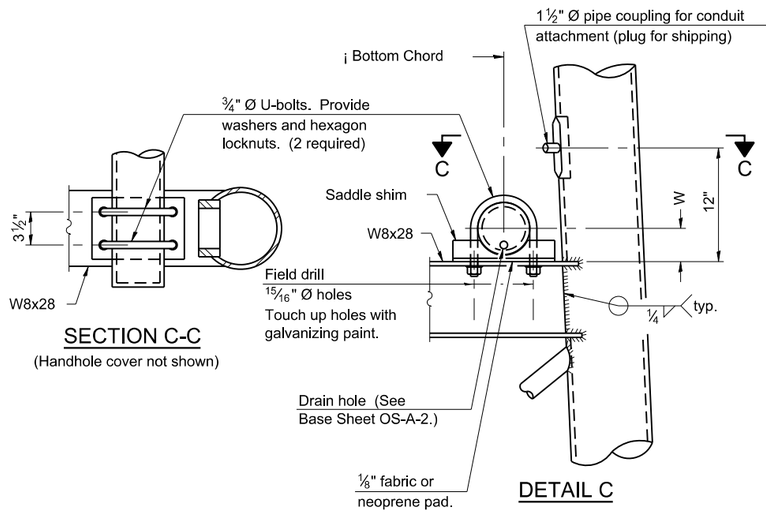
POSITIONING PLATE(S)



ANCHOR ROD DETAIL

Drilled Shaft Foundation

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.



SECTION C-C

(Handhole cover not shown)

DETAIL C

10" Ø PIPE SUPPORT FRAME DETAILS

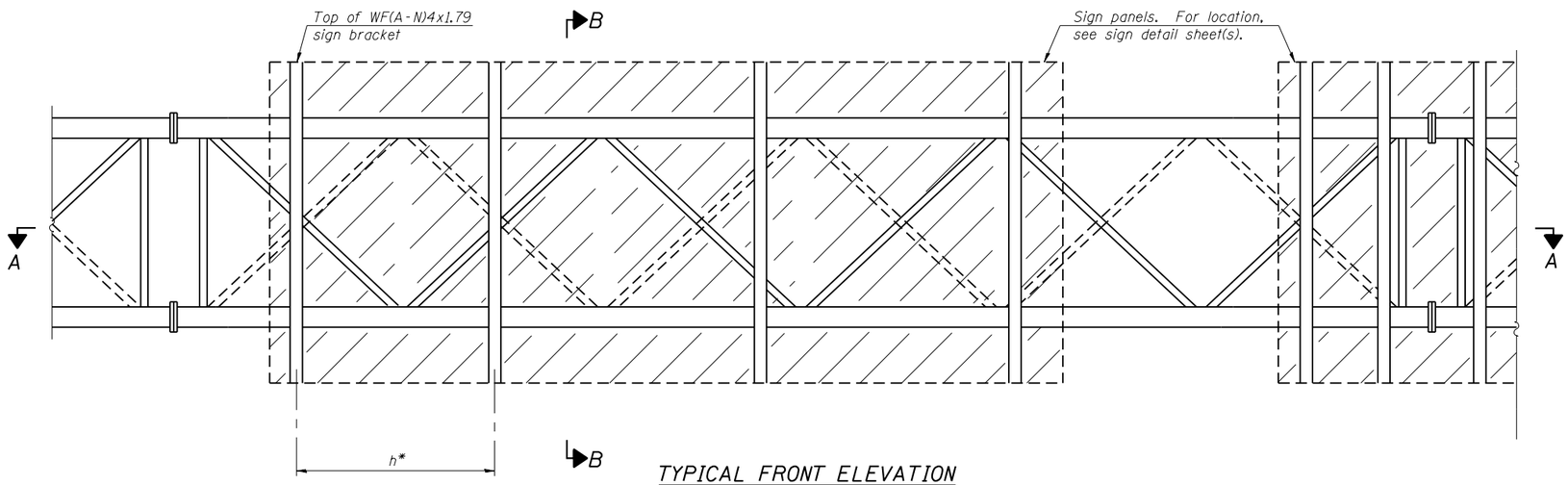
OS-A-6A 2-17-2017

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME =	DESIGNED - MTH	REVISED -
	FILE NAME =	CHECKED - ZTB	REVISED -
	PLOT TIME = 1:06:21 PM	DRAWN - AJF	REVISED -
	PLOT DATE = 6/4/2018	CHECKED - MTH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS – ALUMINUM TRUSS
SHEET NO. 6 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	352
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			

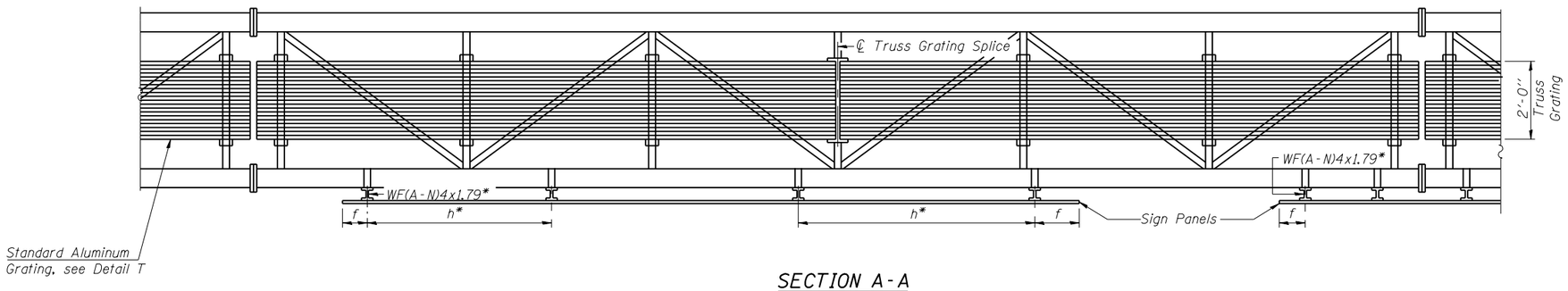


TYPICAL FRONT ELEVATION

For Section B-B, see Sheet 8 of 10.

BRACKET TABLE

WF(A-N)4x1.79 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0''	2
8'-0''	14'-0''	3
14'-0''	20'-0''	4
20'-0''	26'-0''	5
26'-0''	32'-0''	6



SECTION A-A

Place all sign brackets as close to panel points as practical.
Grating splices placed as needed.

Notes:

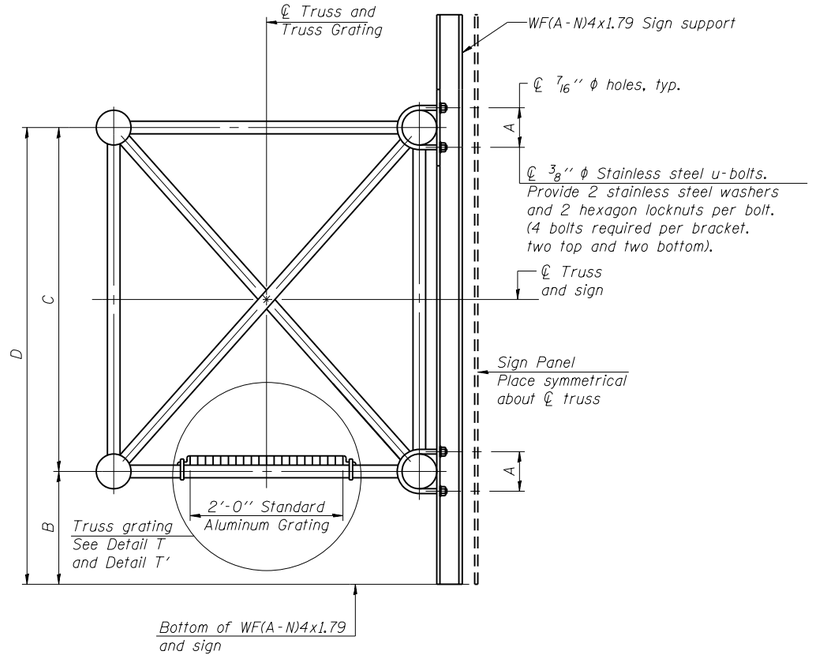
* Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12'' maximum, 4'' minimum (End of sign to ℄ of nearest bracket)
h = 6'-0'' maximum (℄ to ℄ sign brackets WF(A-N)4x1.79)

For Detail T and Section B-B see Sheet 8 of 10.

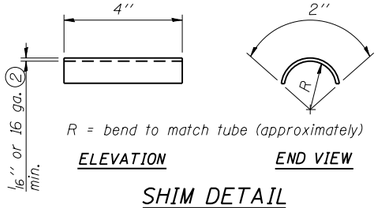
Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12'' on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Truss Grating width dimensions are nominal and may vary ±1/2'' based on available standard widths.



SECTION B-B

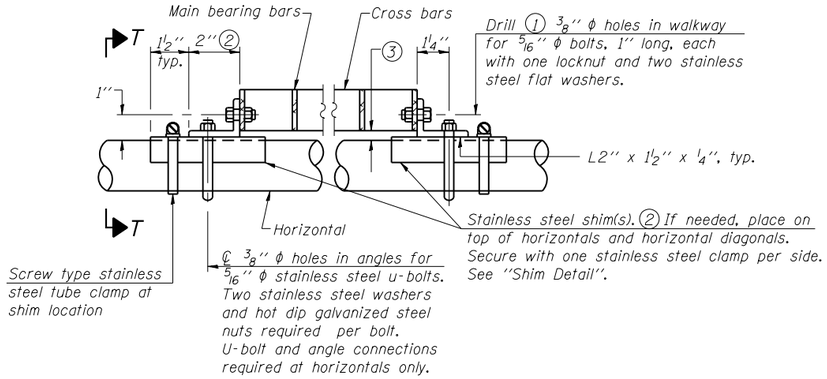
Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



R = bend to match tube (approximately)

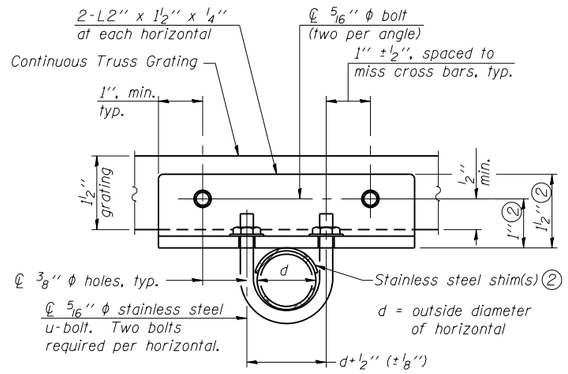
ELEVATION END VIEW

SHIM DETAIL

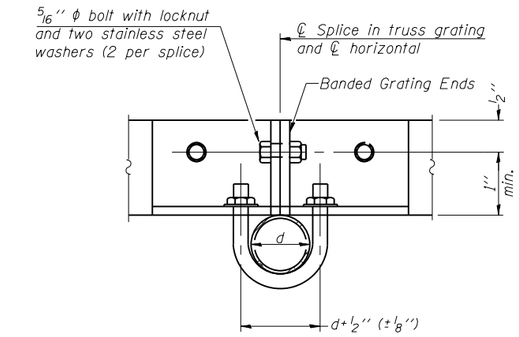


DETAIL T

(Continuous Truss grating)



SECTION T-T



SECTION T'-T'

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

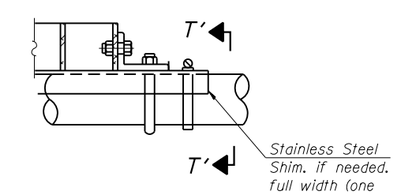
Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 $in.^3$ per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



DETAIL T'

(Truss grating splice)

Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.

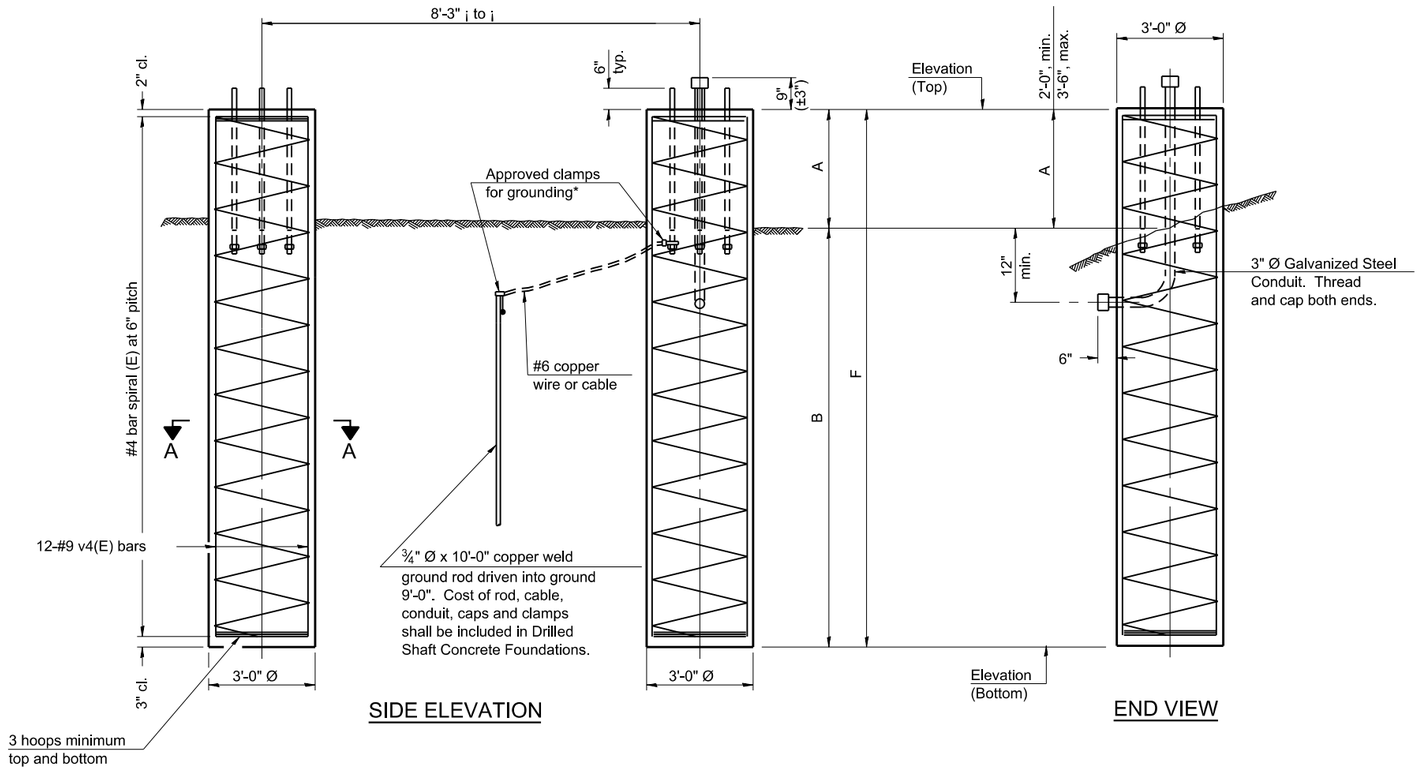
Structure Number	Station	A	(4) B	C	(4) D
1S099I080L137.7	671+15	5 1/2"	2'-9"	4'-6"	7'-3"

(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

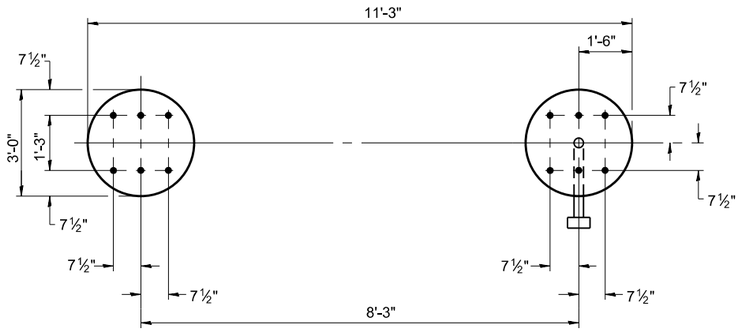
(3) Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.

(4) Based on actual height of tallest sign given on OS-A-1.



SIDE ELEVATION

END VIEW



PLAN

For anchor rod size and placement, see Support Frame Detail Sheet.

* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	———
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

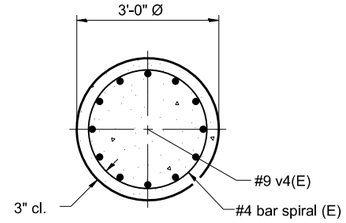
No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



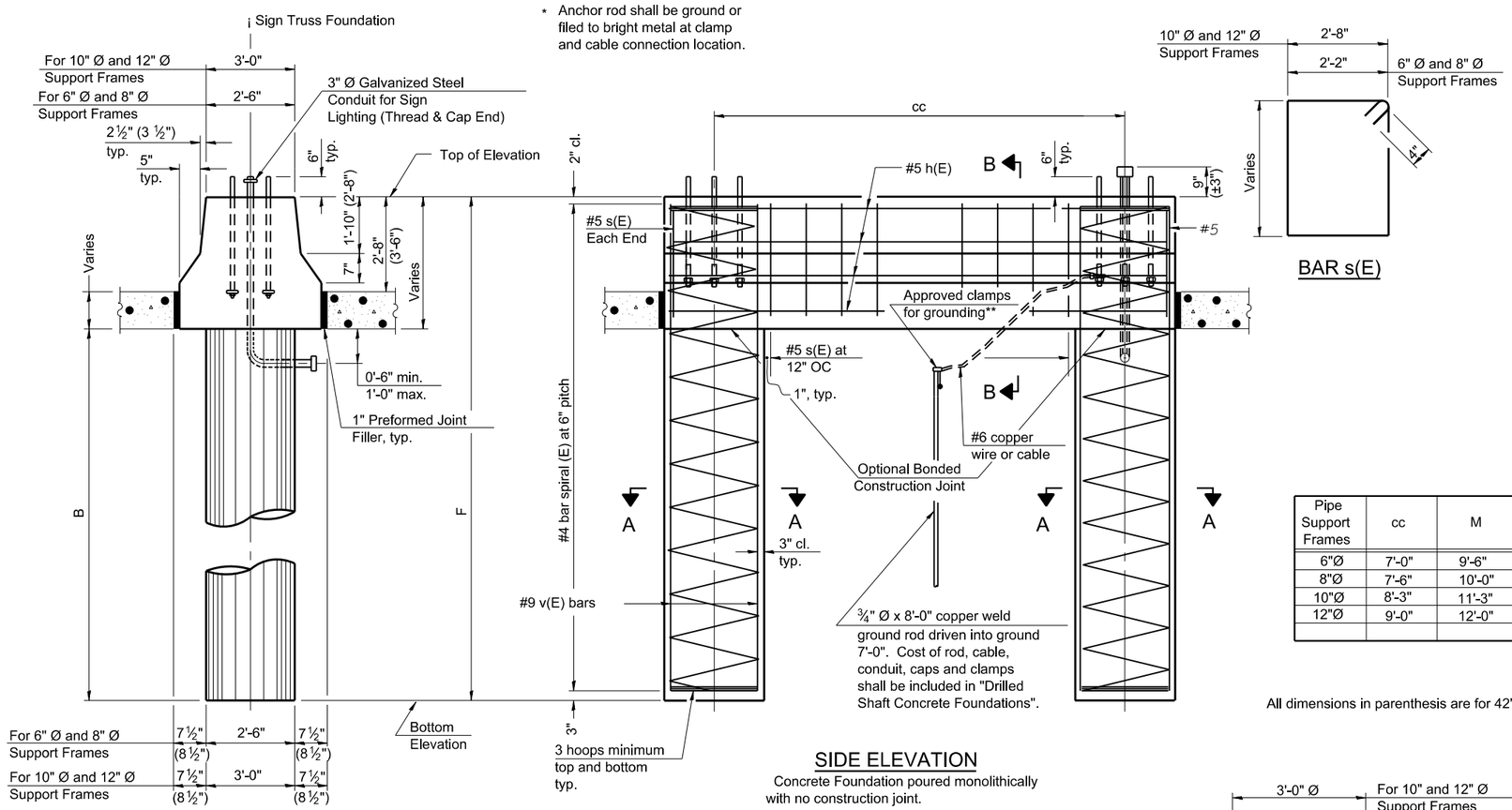
SECTION A-A

DETAILS FOR 10" Ø SUPPORT FRAME TYPE I-A or II-A TRUSS

Structure Number	Station	Left Foundation					Right Foundation					Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
1S099I080L137.7	671+15	-	-	-	-	-	646.45	626.45	3'-6"	16'-6"	20'-0"	10.5

OS4-F3

2-17-2017

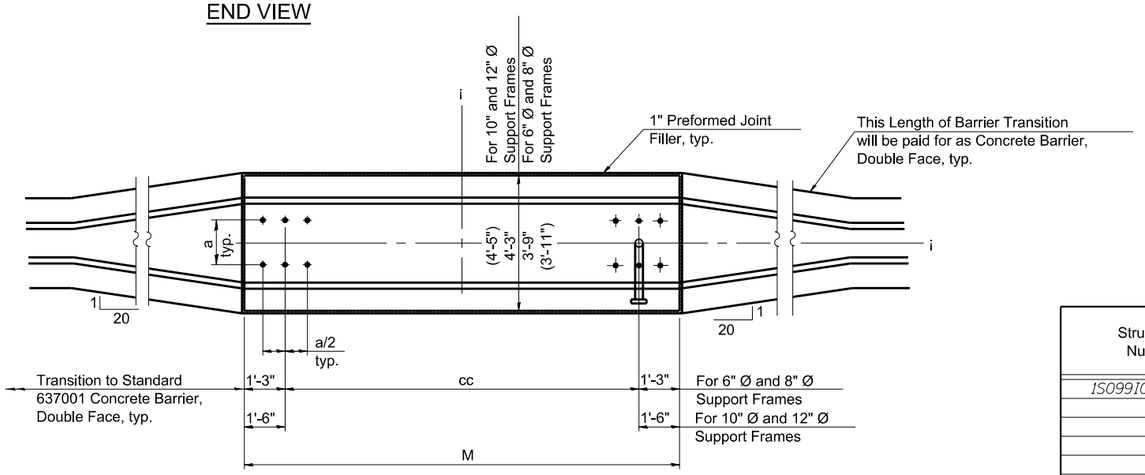


BAR s(E)

END VIEW

SIDE ELEVATION

Concrete Foundation poured monolithically with no construction joint.



PLAN

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

Pipe Support Frames	cc	M	a	a/2
6"Ø	7'-0"	9'-6"	0'-11"	5½"
8"Ø	7'-6"	10'-0"	1'-1 ½"	6¾"
10"Ø	8'-3"	11'-3"	1'-3"	7½"
12"Ø	9'-0"	12'-0"	1'-6"	9"

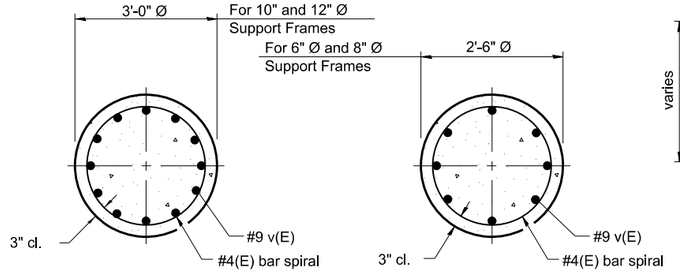
All dimensions in parenthesis are for 42" high barrier.

BAR LIST - EACH FOUNDATION

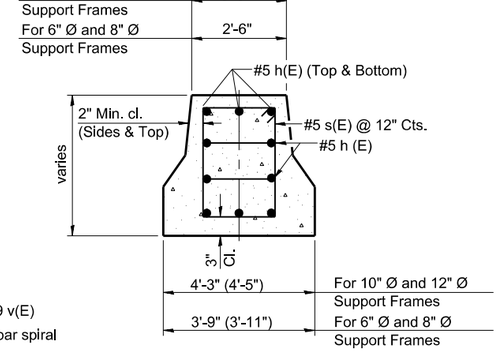
Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	——
s(E)	Varies	#5	Varies	□
v(E)	16	#9	F less 0'-5"	——
v(E)	24	#9	F less 0'-5"	——
#4(E) bar spiral _ see Side Elevation				

6" Ø and 8" Ø Support Frame

10" Ø and 12" Ø Support Frame



SECTION A-A



SECTION B-B

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
IS099I080L137.7	671+15	649.95	628.45	16'-6"	21'-6"	-	-	-	-	16.7

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
MEDIAN SUPPORT FOUNDATION DETAILS
SHEET NO. 10 OF 10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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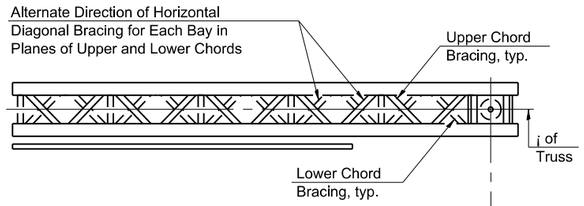
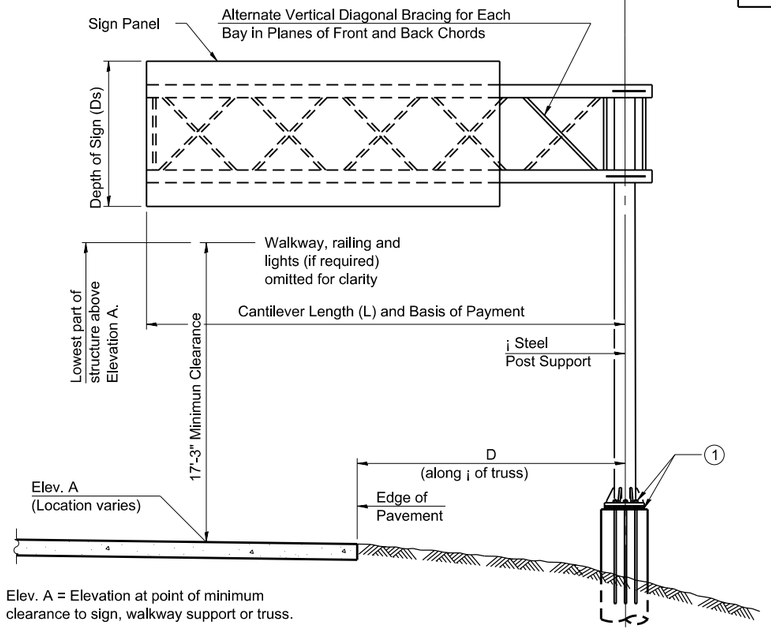
		CONTRACT NO. 60N87		
	ILLINOIS	FED. AID PROJECT		



TYPICAL PLAN

(Walkway not shown)



Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

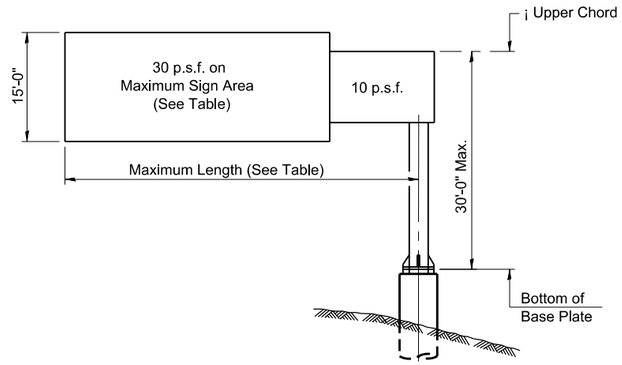
TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	Ds	Total Sign Area
IC099I080R137.4	658+00	III-C-A	36'-3"	633.3	6'-0"	14'-0"	223 sf

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

Note:
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

(1) After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

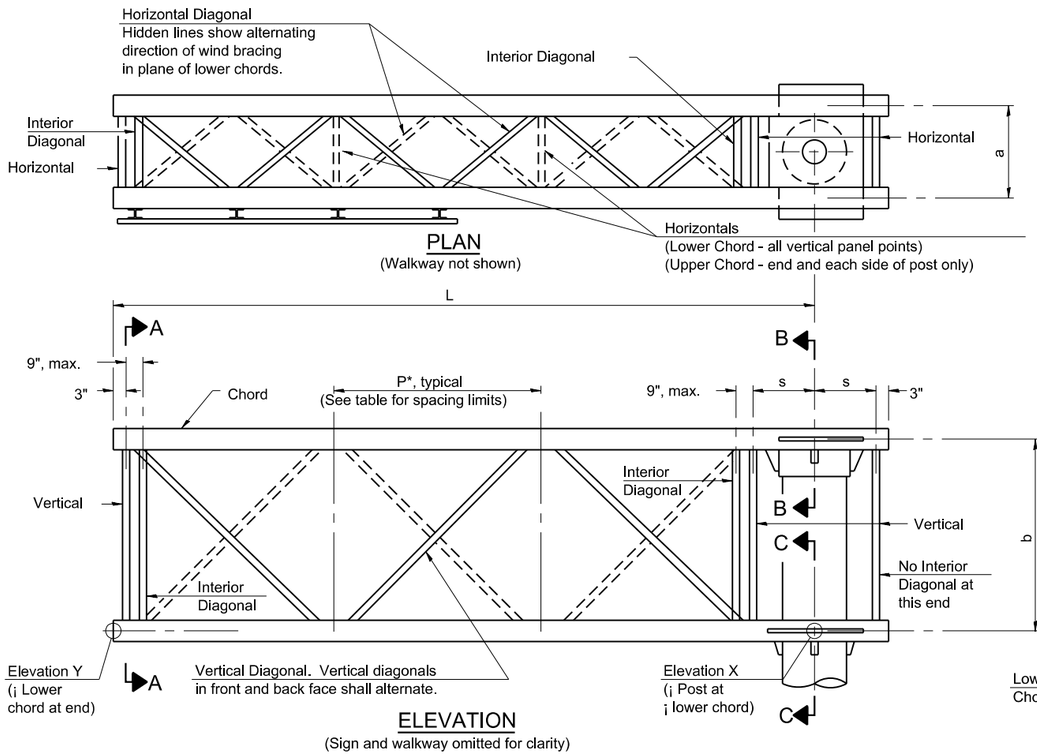
REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	37
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	5.2

OSC-A-1 2-17-2017



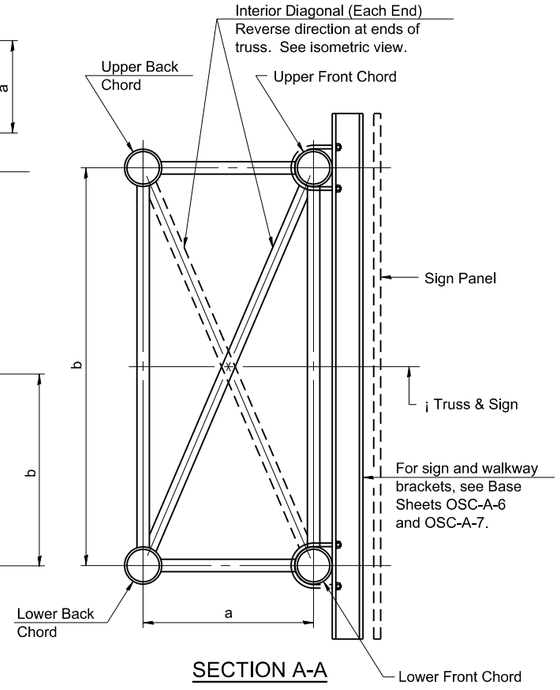
PLAN
(Walkway not shown)

ELEVATION
(Sign and walkway omitted for clarity)

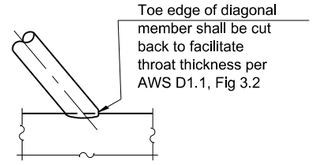
TYPICAL TRUSS UNIT

For Section B-B and Section C-C, see Base Sheet OSC-A-3.

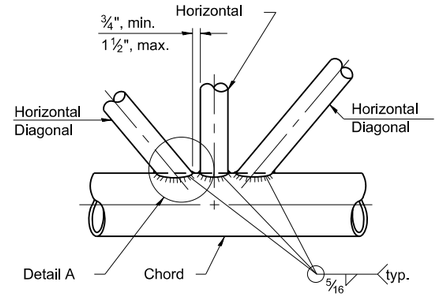
Note:
There are twice as many horizontal diagonals as there are vertical diagonals.



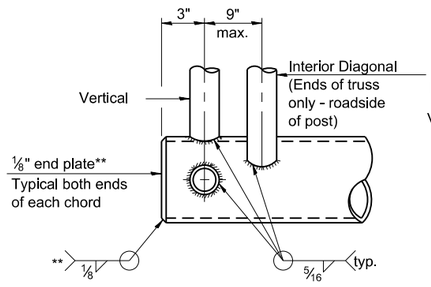
SECTION A-A



DETAIL A

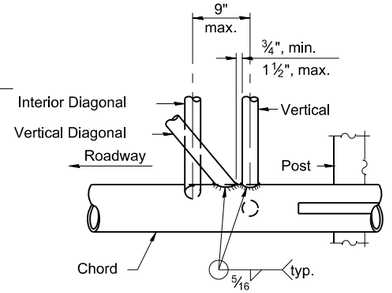


TRUSS INTERIOR JOINT DETAIL

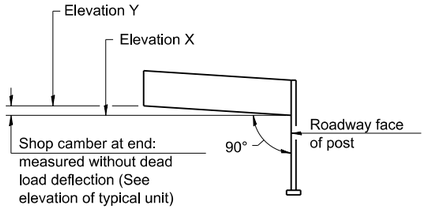


CANTILEVER END JOINT DETAIL

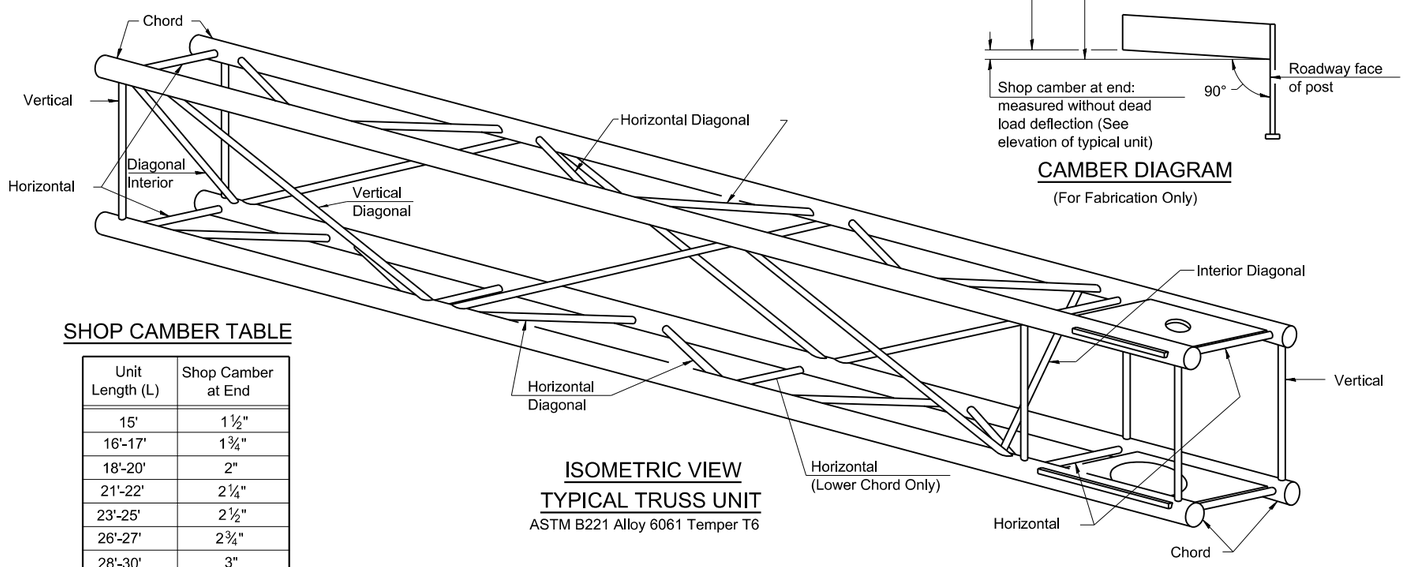
** Contractor may alternatively use standard aluminum drive-fit cap to close ends. ½" Ø Drain hole in end plate / drive-fit cap.



POST END JOINT DETAIL



CAMBER DIAGRAM
(For Fabrication Only)



ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2½"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6½"	5/16"	3¼"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	⅜"	3½"	⅜"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	⅜"	3½"	⅜"

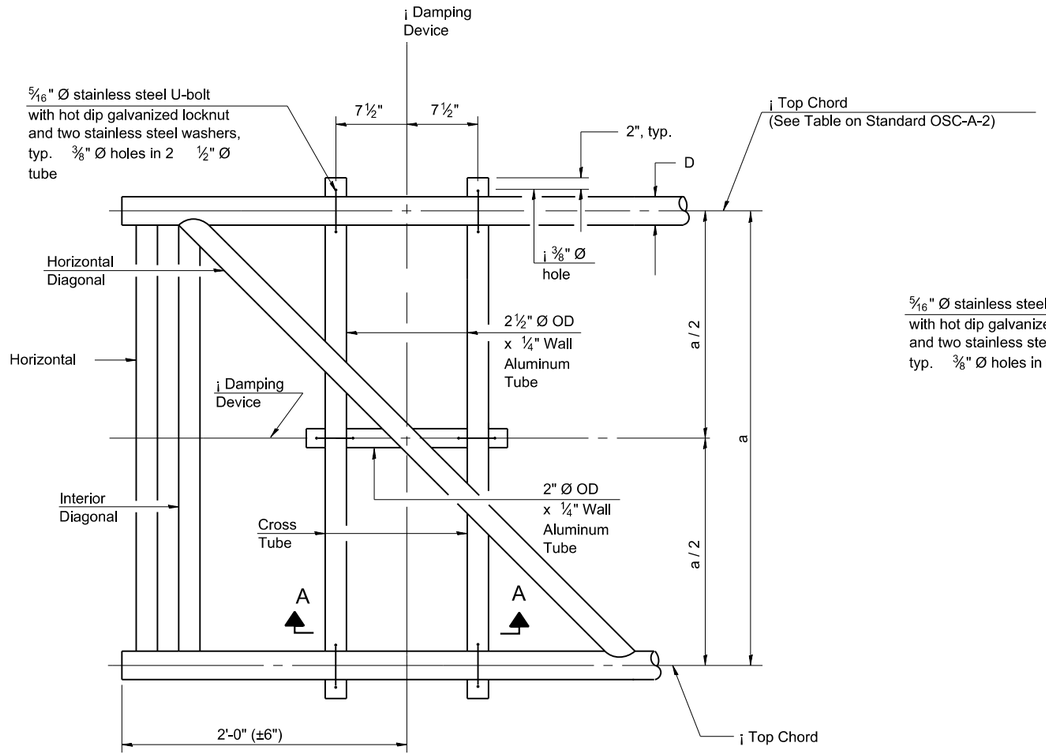
$$*P = \frac{L - s - 3"}{\#\ \text{Panels}}$$

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
IC099I080R137.4	658+00	III-C-A	36'-3"	7	4'-10 3/4"

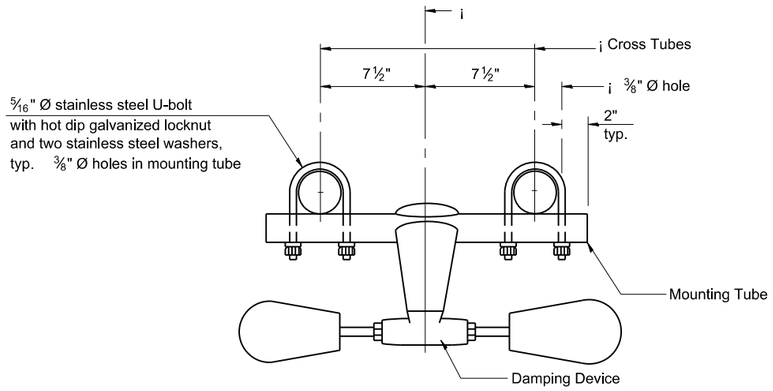
SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1½"
16'-17'	1¾"
18'-20'	2"
21'-22'	2¼"
23'-25'	2½"
26'-27'	2¾"
28'-30'	3"
31'-32'	3¼"
33'-35'	3½"
36'-37'	4"
38'-40'	4½"

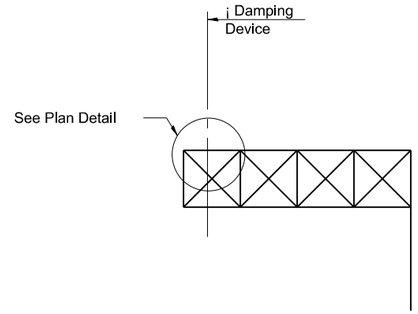
OSC-A-2 2-17-2017



PLAN DETAIL



TRUSS DAMPING DEVICE CONNECTION DETAIL

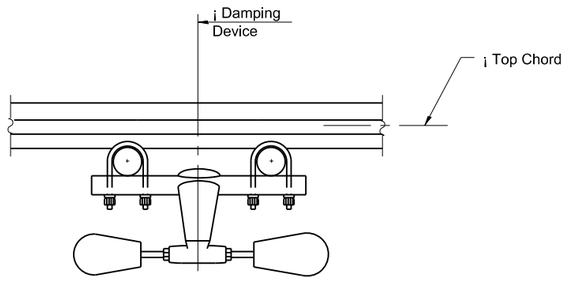


ELEVATION
Aluminum Cantilever Sign Structure

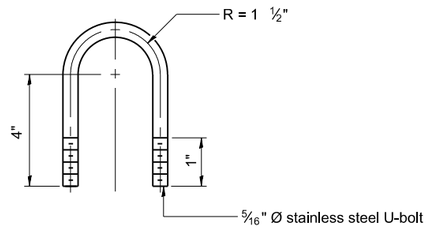
GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum-29" minimum between ends of weights)

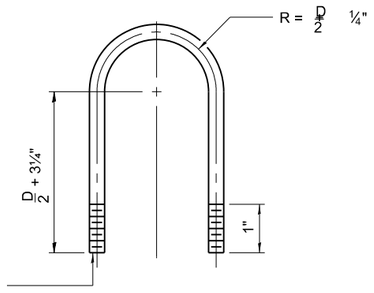
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

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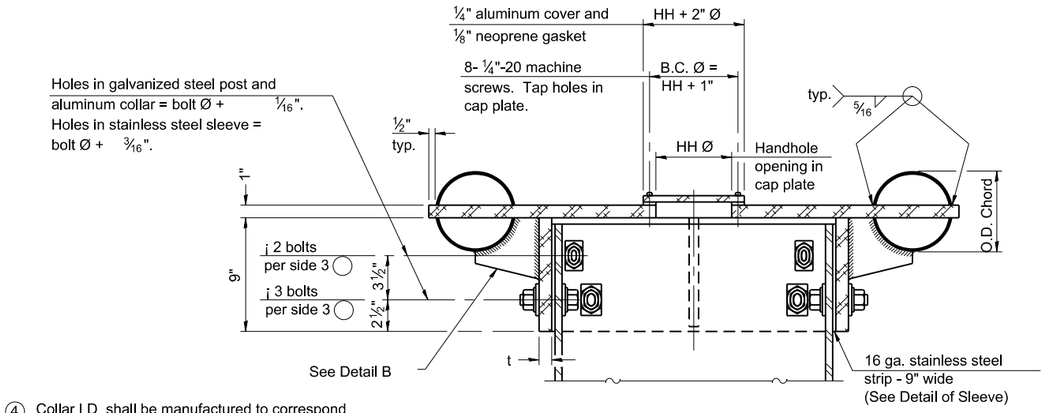
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURE
DAMPING DEVICE
SHEET NO. 3 OF 8 SHEETS

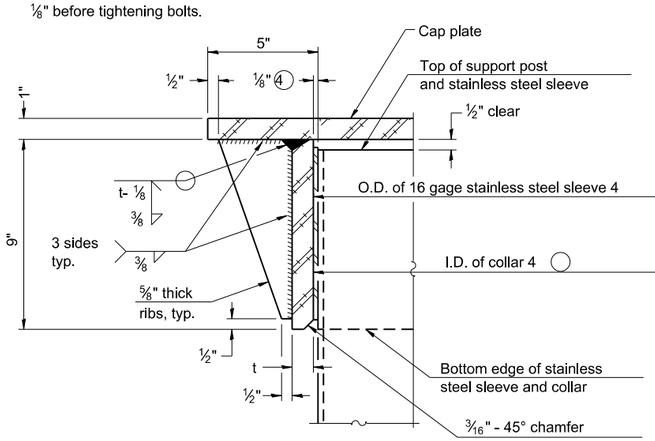
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	359
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			



SECTION B-B

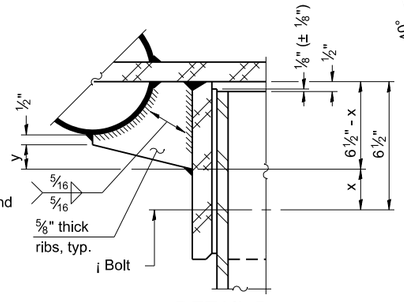
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus ⅛" (± 1/16"). Maximum gap between post and collar at any location equals ⅛" before tightening bolts.



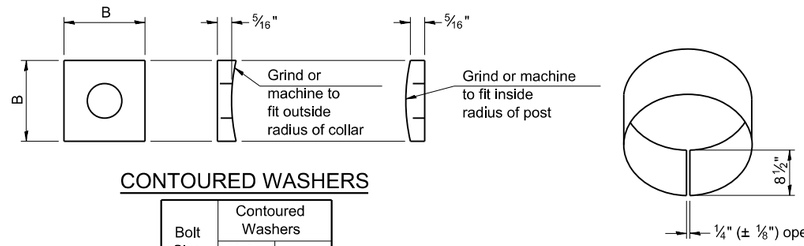
DETAIL A

(Two locations)



DETAIL B

Two locations
(For details not shown, see Detail C)

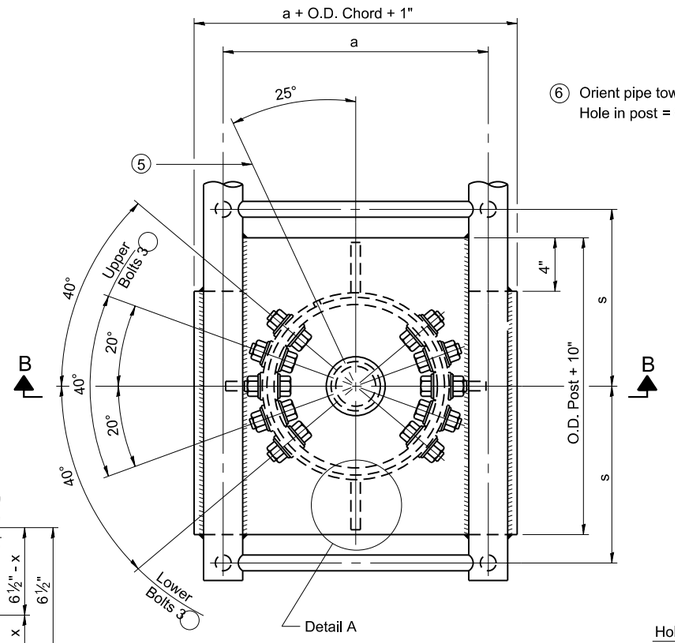


CONTOURED WASHERS

Bolt Size	Contoured Washers	
	Hole Dia.	B
⅞"	1"	2½"
1"	1⅛"	3"
1¼"	1⅜"	3¼"

DETAIL OF STAINLESS STEEL SLEEVE

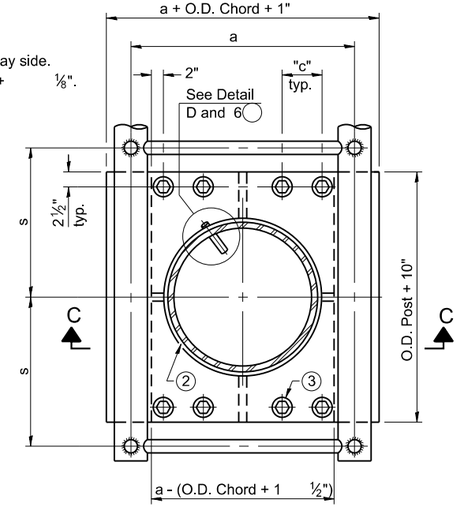
Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 1 ½" long at 6" cts.
along top edge and at ¼" opening.



PLAN VIEW - TOP OF COLUMN

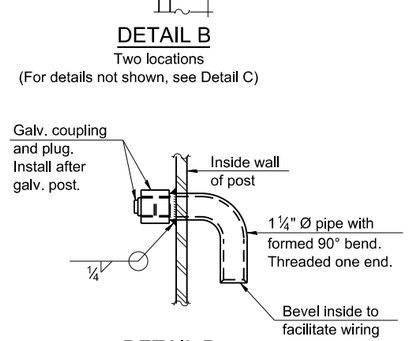
⑤ Optional full penetration weld in collar.
(Two locations maximum....(180° apart)....X-ray or UT 100%)

⑥ Orient pipe toward walkway side.
Hole in post = O.D. pipe + ⅛".

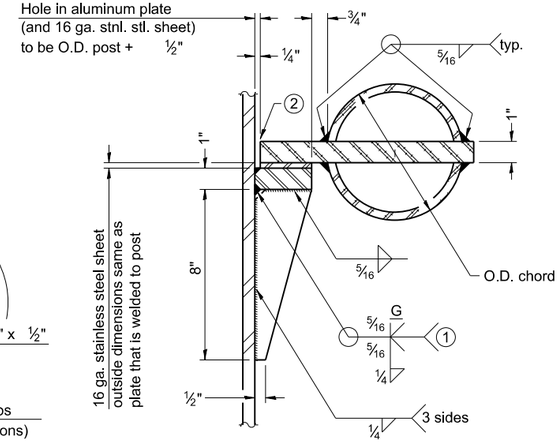


SECTION THRU POST ABOVE LOWER CHORDS

SECTION C-C



DETAIL D



DETAIL C

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter 3◯	Lower Juncture Bolt Spacing Dimension "c" 3◯	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" Ø (83#/')	⅞"	3¼"	8"	⅝"	1¾"	2¼"
II-C-A	24" Ø (125#/')	1"	3½"	12"	⅞"	2"	1¼"
III-C-A (35' max.)	24" Ø (125#/')	1¼"	3½"	12"	⅞"	2"	1"
III-C-A (>35' to 40')	24" Ø (171#/')	1¼"	3½"	12"	⅞"	2"	1"

① Grind top if required to fully seat aluminum plate and stainless steel sheet.

② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3 2-17-2017

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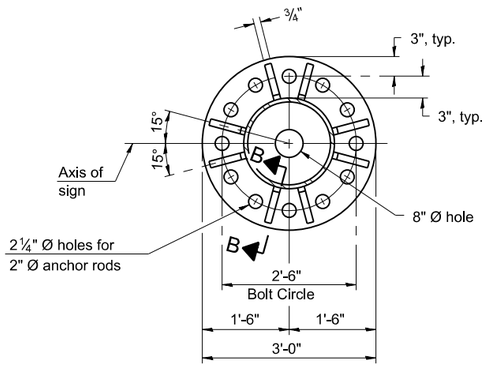
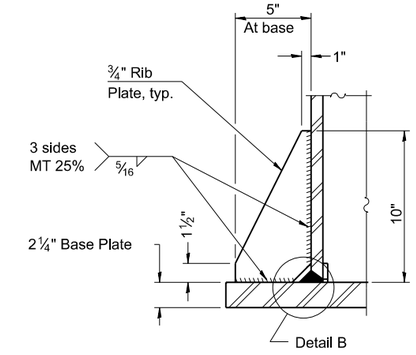
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – JUNCTURE DETAILS
ALUMINUM TRUSS & STEEL POST
SHEET NO. 4 OF 8 SHEETS

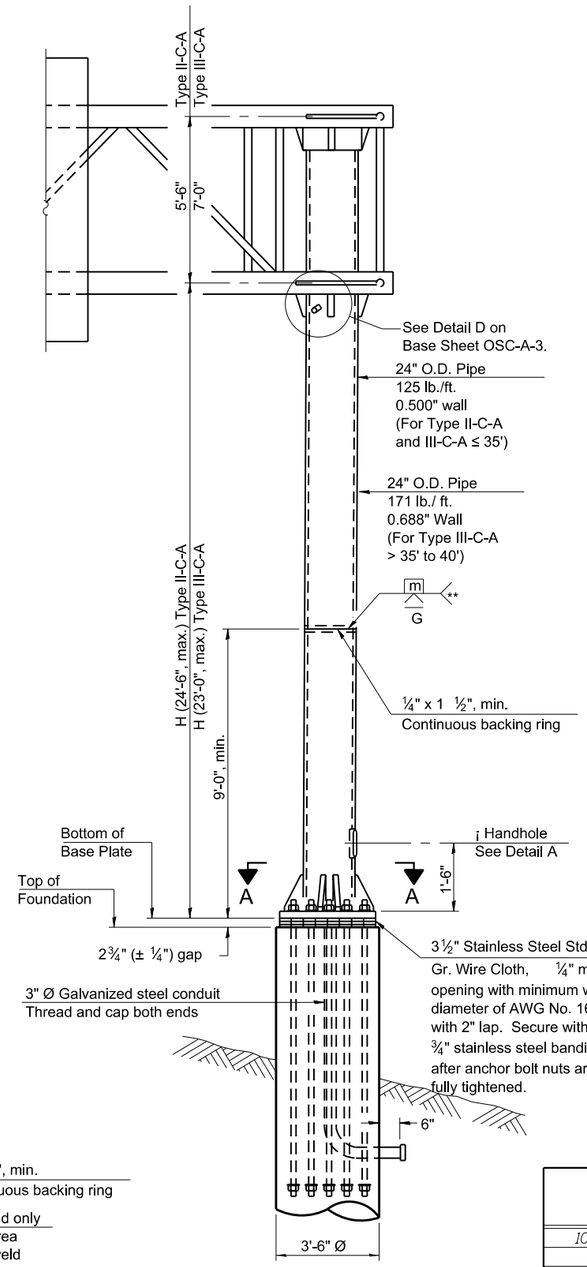
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	360
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			



SECTION A-A

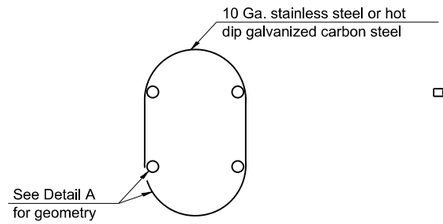


SECTION B-B

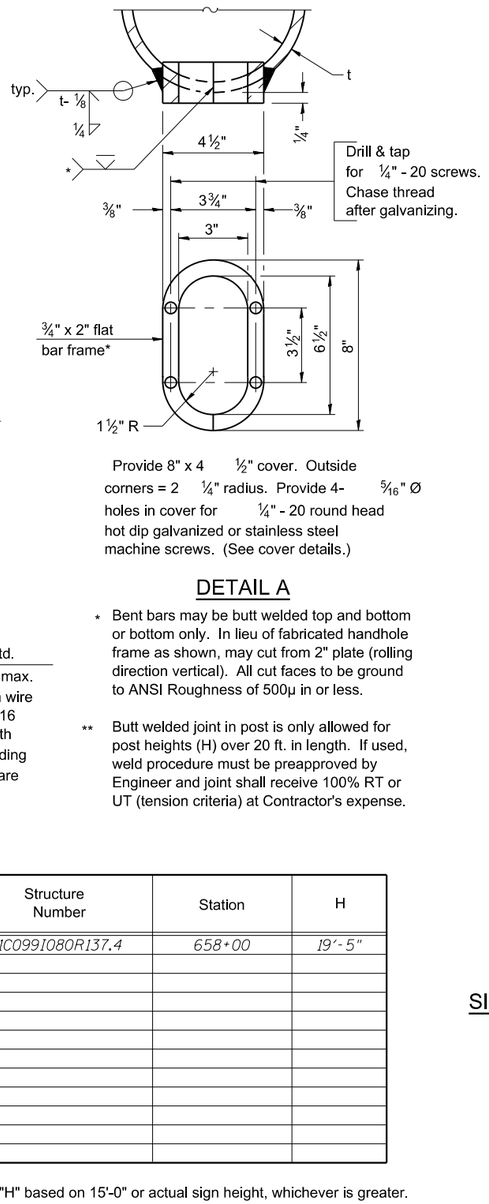


FRONT ELEVATION

For Foundation Details see Base Sheet OSC-A-9.



HANDHOLE COVER

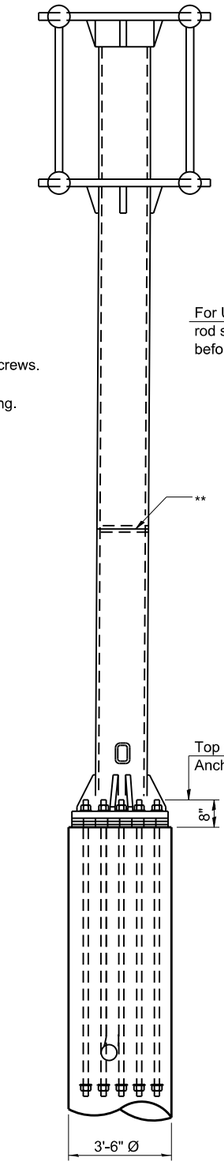


Provide 8" x 4 ½" cover. Outside corners = 2 ¼" radius. Provide 4- 5/16" Ø holes in cover for ¼" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

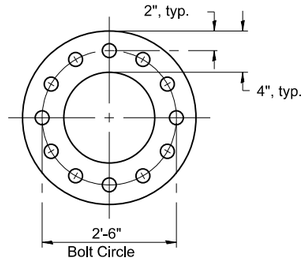
DETAIL A

* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500µ in or less.

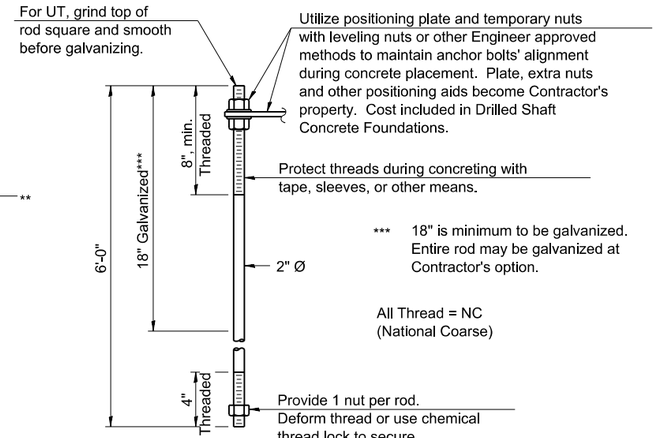
** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION

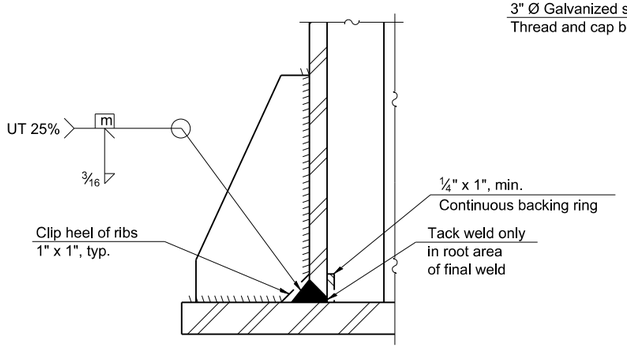


SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105. Galvanize the upper 18" (minimum***) and associated AASHTO M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide a nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.



DETAIL B

(Typical rib)

Structure Number	Station	H
IC099108OR137.4	*658+00*	*19'-5"*

Note: "H" based on 15'-0" or actual sign height, whichever is greater.

OSC-A-5 2-17-2017

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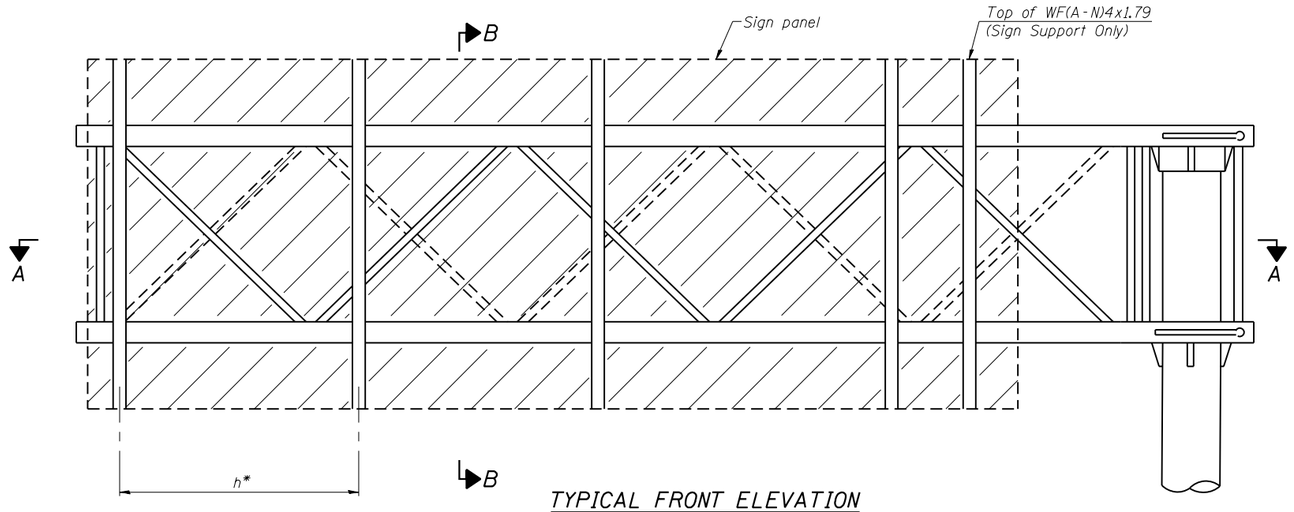
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – TYPE II-C-A & III-C-A
TRUSS SUPPORT POST – ALUMINUM TRUSS & STEEL POST

SHEET NO. 5 OF 8 SHEETS

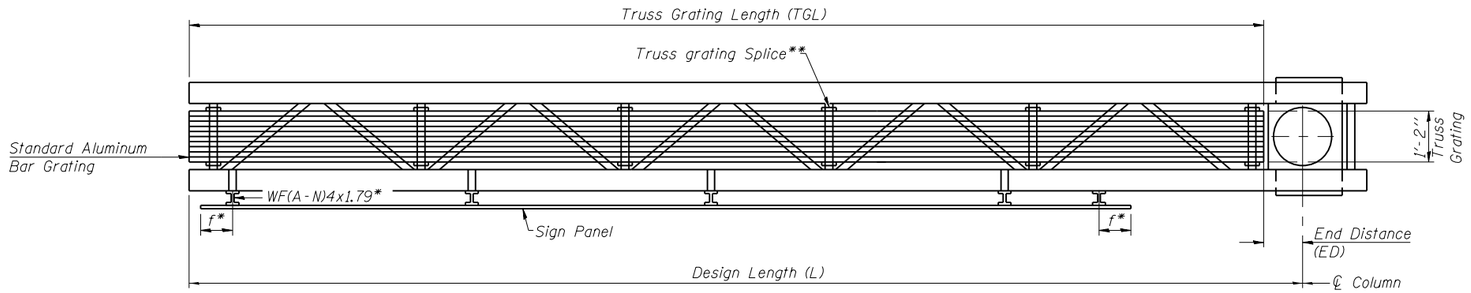
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	361
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			



TYPICAL FRONT ELEVATION

BRACKET TABLE

WF(A-N)4x1.79 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0''	2
8'-0''	14'-0''	3
14'-0''	20'-0''	4
20'-0''	26'-0''	5
26'-0''	32'-0''	6



Structure Number	Station	ED	TGL
IC099I080R137.4	658+00	1'-6"	34'-9"

SECTION A-A

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Truss grating dimensions are nominal and may vary (width $\pm\frac{1}{2}''$, depth $\pm\frac{1}{2}''$) based on available standard widths.

** Use and location of grating splices are optional, based on lengths needed and material availability.

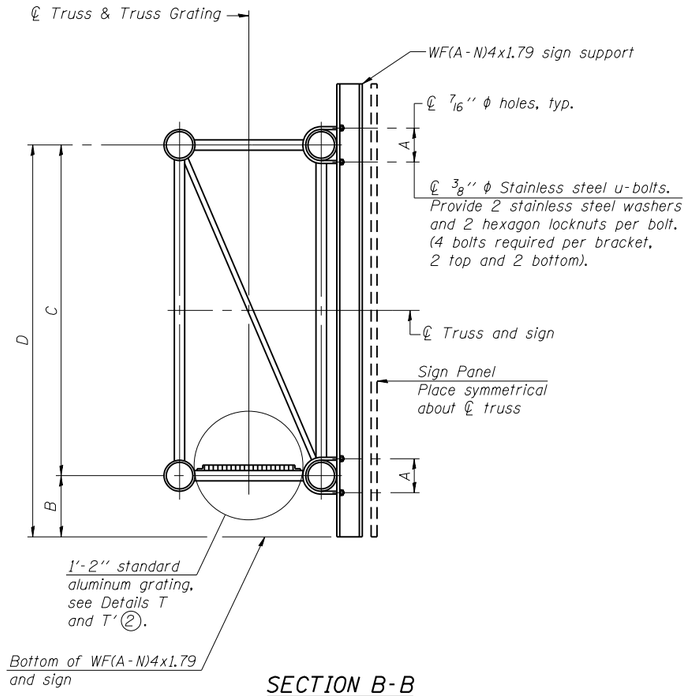
$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6''\right)$$

Notes:

* Space sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

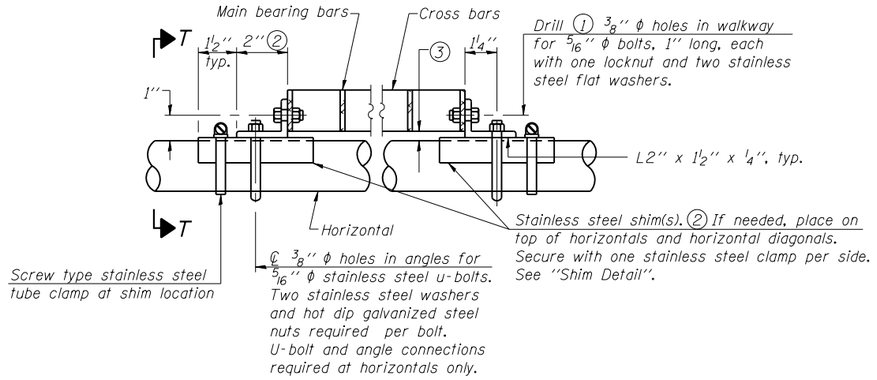
f = 12'' maximum, 4'' minimum (End of sign to ℄ of nearest bracket)
h = 6'-0'' maximum (℄ to ℄ sign brackets, WF(A-N)4x1.79

For details of sign placement, sign brackets, truss gratings, grating splices and Section B-B, see Walkway Details sheet.



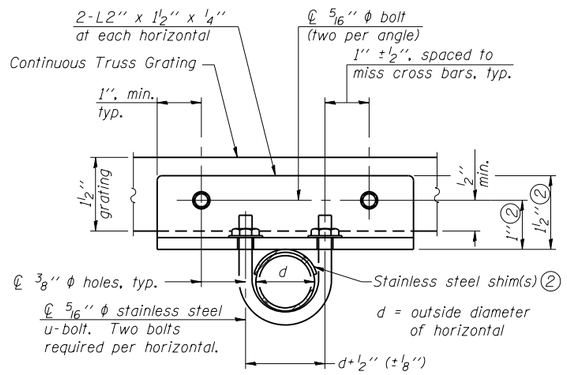
SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



DETAIL T

(Continuous Truss grating)



SECTION T-T

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be ⅜" x 1½" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

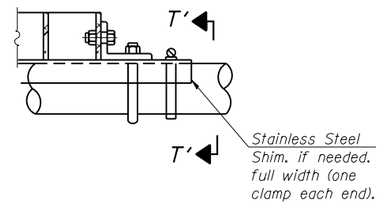
Cross bars (CB) shall be ⅜" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 $in.^3$ per bar, a depth of 1½", spaced on 1 3/16" centers.

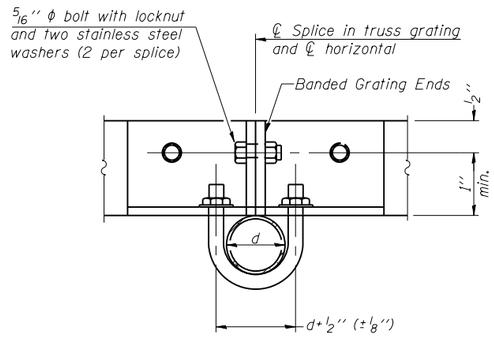
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



DETAIL T'

(Truss grating splice)

Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



SECTION T'-T'

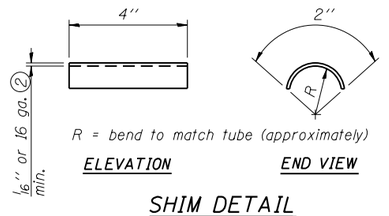
Structure Number	Station	A	④ B	C	④ D
IC099I080R137.4	658+00	8½"	3'-6"	7'-0"	10'-6"

① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

③ Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.

④ Based on actual sign height, D_S, given on OSC-A-1.



SHIM DETAIL

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	USER NAME =	DESIGNED - TBP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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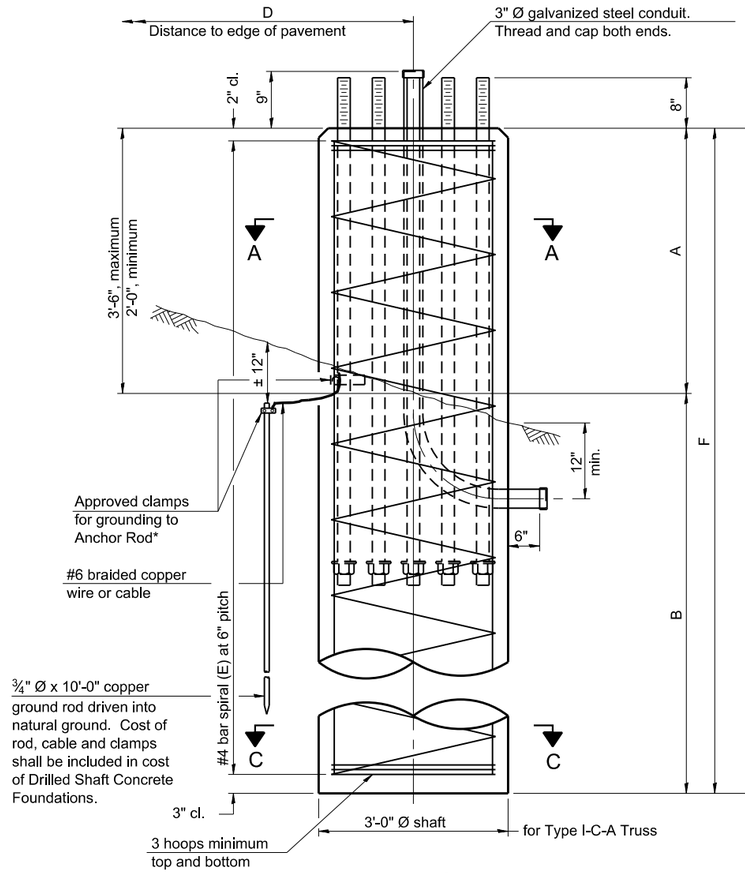
	PLOT TIME = 1:06:27 PM	DRAWN - TBP	REVISED -	
	PLOT DATE = 6/4/2018	CHECKED - MTH	REVISED -	

CANTILEVER SIGN STRUCTURES – WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST

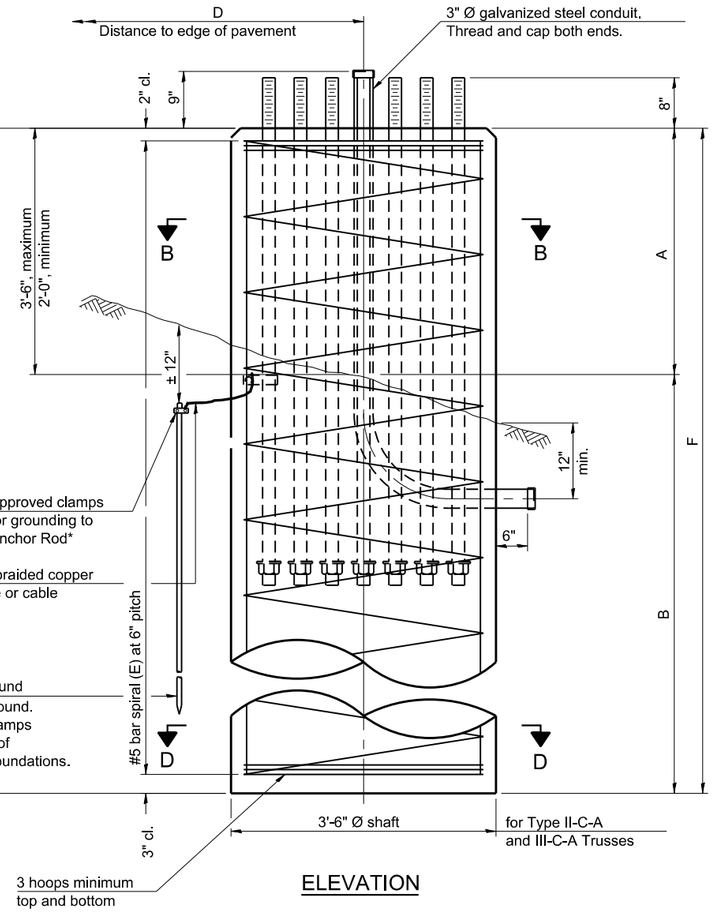
SHEET NO. 7 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	363
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			

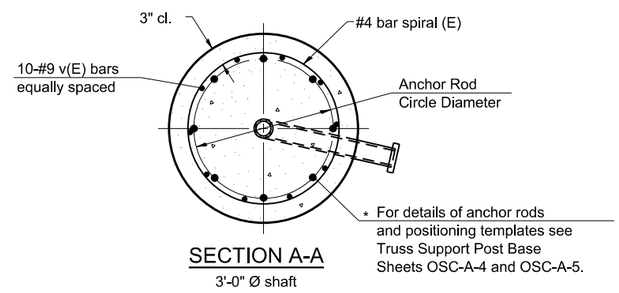
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



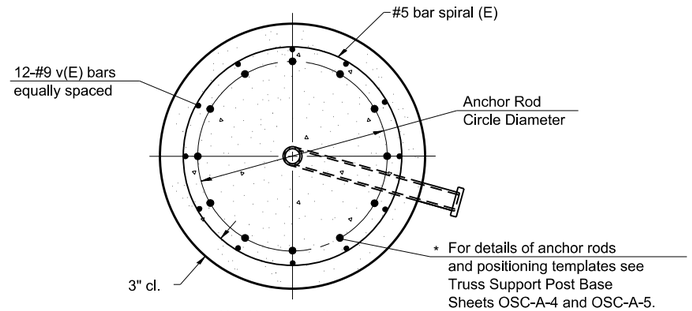
ELEVATION



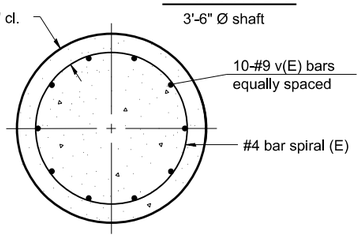
ELEVATION



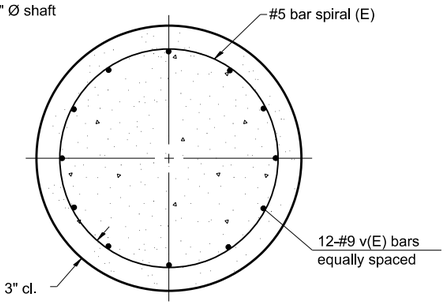
SECTION A-A
3'-0" Ø shaft



SECTION B-B
3'-6" Ø shaft



SECTION C-C
3'-0" Ø shaft



SECTION D-D
3'-6" Ø shaft

NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

* The embedment depth for drilled shaft is determined using boring data for nearby Old Plank Road Trail Bridge. The rock layer is expected to be within ±3 ft of the ground level. If different field conditions are encountered, the shaft shall be embedded a minimum of 8 feet into rock or a maximum of 32 feet into soil as shown in the FOUNDATION DESIGN TABLE.

FOUNDATION DESIGN TABLE

	Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods No.	Anchor Rods Diameter (in)	Anchor Rod Circle Diameter (in)
	I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
	II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
	II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
	III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
	III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
	III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
*	III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

FOUNDATION DATA TABLE

	Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class DS Concrete Cubic Yards
*	1C099I080R137.4	658+00	III-C-A	3'-6"	634.9	620.4		3'-6"	11'-0"	14'-6"	5.2

OSC-A-9 2-17-2017

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES – DRILLED SHAFT
ALUMINUM TRUSS & STEEL POST
SHEET NO. 8 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	364
		CONTRACT NO. 60N87		
	ILLINOIS FED. AID PROJECT			

LEGEND

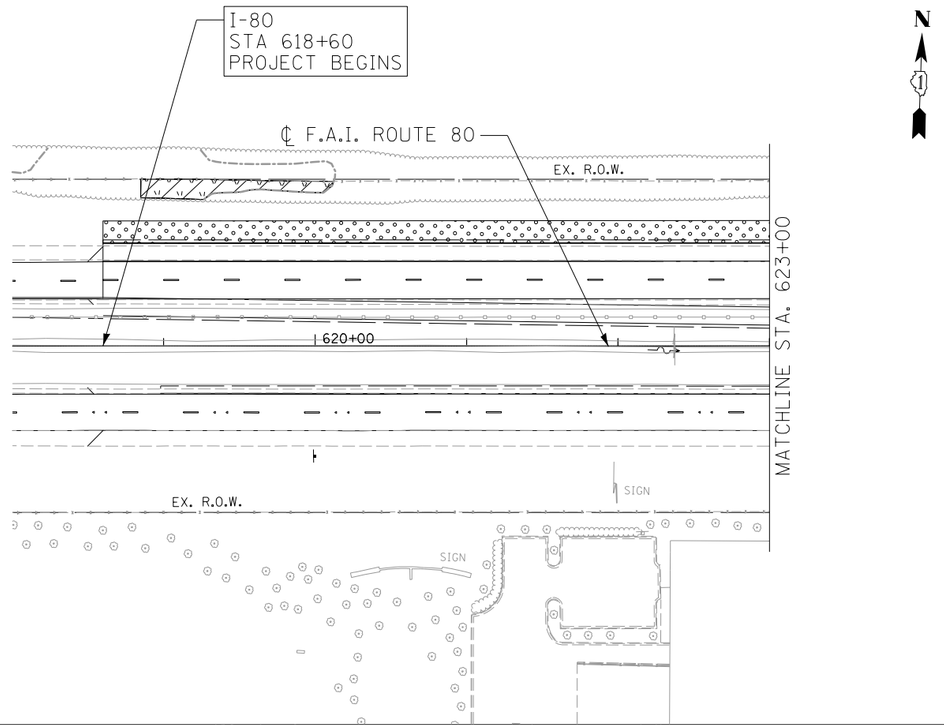
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SELECTIVE CLEARING / WEED CONTROL, BASAL TREATMENT
- INTERSEEDING, CLASS 4
- PERENNIAL PLANTS, WETLAND TYPE / SEEDING, CLASS 4B (MODIFIED) / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION

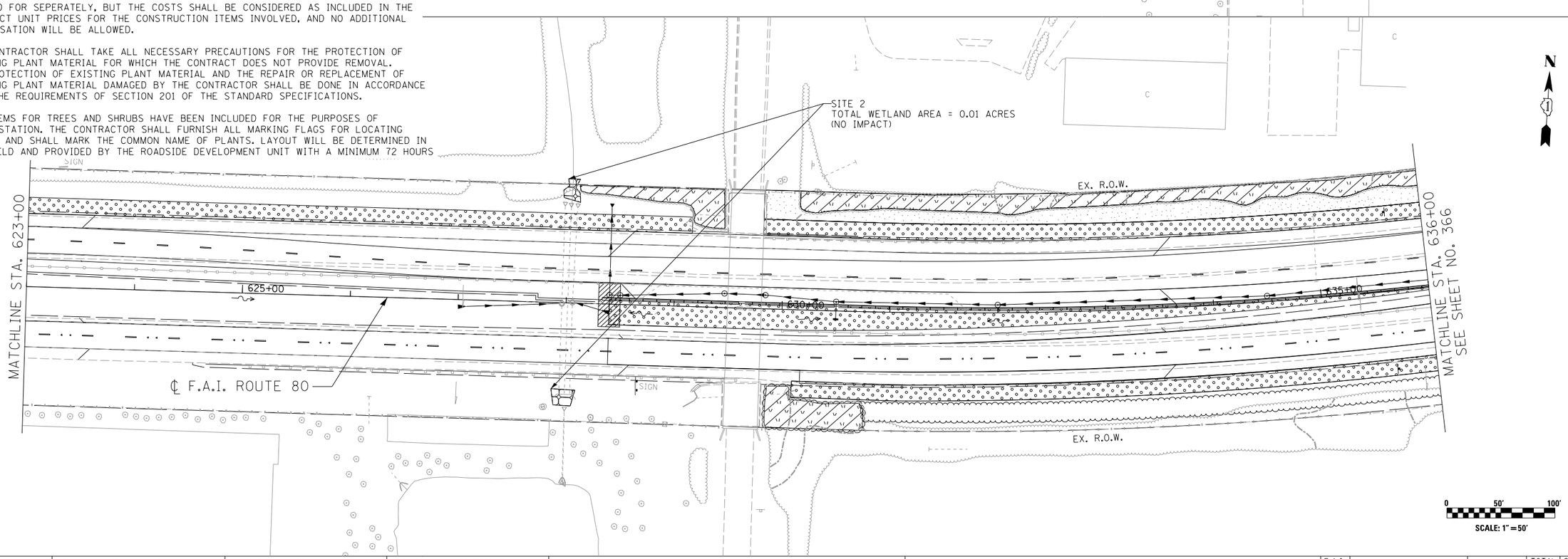
GENERAL NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL AND MAINTAIN EROSION CONTROL MEASURES IMMEDIATELY AFTER STRIPPING OF EXISTING VEGETATION.
2. PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THE DISTURBED AREAS. WORK IN THESE AREAS SHALL NOT BE PROLONGED IN AN ATTEMPT THAT ALL FINAL GRADING AND STABILIZATION CAN TAKE PLACE AT ONE TIME.
3. PERMANENT LANDSCAPING ITEMS SHALL BE IMPLEMENTED IN CONJUNCTION WITH CONSTRUCTION STAGING.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO PROCEED WITH ANY PLANTING WORK UNTIL ALL UTILITY OWNERS FIELD LOCATE THEIR FACILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS.
5. THE ACTUAL LOCATION OF PROPOSED LANDSCAPING WILL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES.
6. UNDERBRUSH OR DEBRIS AT PLANTING LOCATIONS SHALL BE REMOVED AND DISPOSED OF ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT THE COSTS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR THE CONSTRUCTION ITEMS INVOLVED, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
8. PAY ITEMS FOR TREES AND SHRUBS HAVE BEEN INCLUDED FOR THE PURPOSES OF REFORESTATION. THE CONTRACTOR SHALL FURNISH ALL MARKING FLAGS FOR LOCATING PLANTS AND SHALL MARK THE COMMON NAME OF PLANTS. LAYOUT WILL BE DETERMINED IN THE FIELD AND PROVIDED BY THE ROADSIDE DEVELOPMENT UNIT WITH A MINIMUM 72 HOURS NOTICE.

PERENNIAL PLANT CARE CALENDAR

ACTIVITY	TIME
PLANT PERENNIALS AS PER PLAN	MAY 1 - JUNE 15 AUGUST 15 - SEPTEMBER 15
MULCH PERENNIAL BEDS	24 HOURS AFTER PLANTING
INSTALL SELECTIVE MOW STAKES AS PER PLAN OR DIRECTION OF RE	PRIOR TO PERIOD OF ESTABLISHMENT INSPECTION
PERENNIAL PLANT PERIOD OF ESTABLISHMENT - WATER ONCE EVERY 7 DAYS FOR 4 WEEKS	WITHIN 30 DAYS AFTER PLANTING
REPLACE DEAD PLANTS	AFTER PERIOD OF ESTABLISHMENT INSPECTION
PERENNIAL PLANT CARE (FIRST CYCLE)	30 DAYS AFTER PERIOD OF ESTABLISHMENT INSPECTION
PERENNIAL PLANT CARE (SECOND CYCLE)	60 DAYS AFTER PERIOD OF ESTABLISHMENT INSPECTION
PERENNIAL PLANT CARE (THIRD CYCLE)	90 DAYS AFTER PERIOD OF ESTABLISHMENT INSPECTION
SUPPLEMENTAL WATERING	USE AFTER PERIOD OF EST. INSP. AS DIRECTED BY RESIDENT ENGINEER





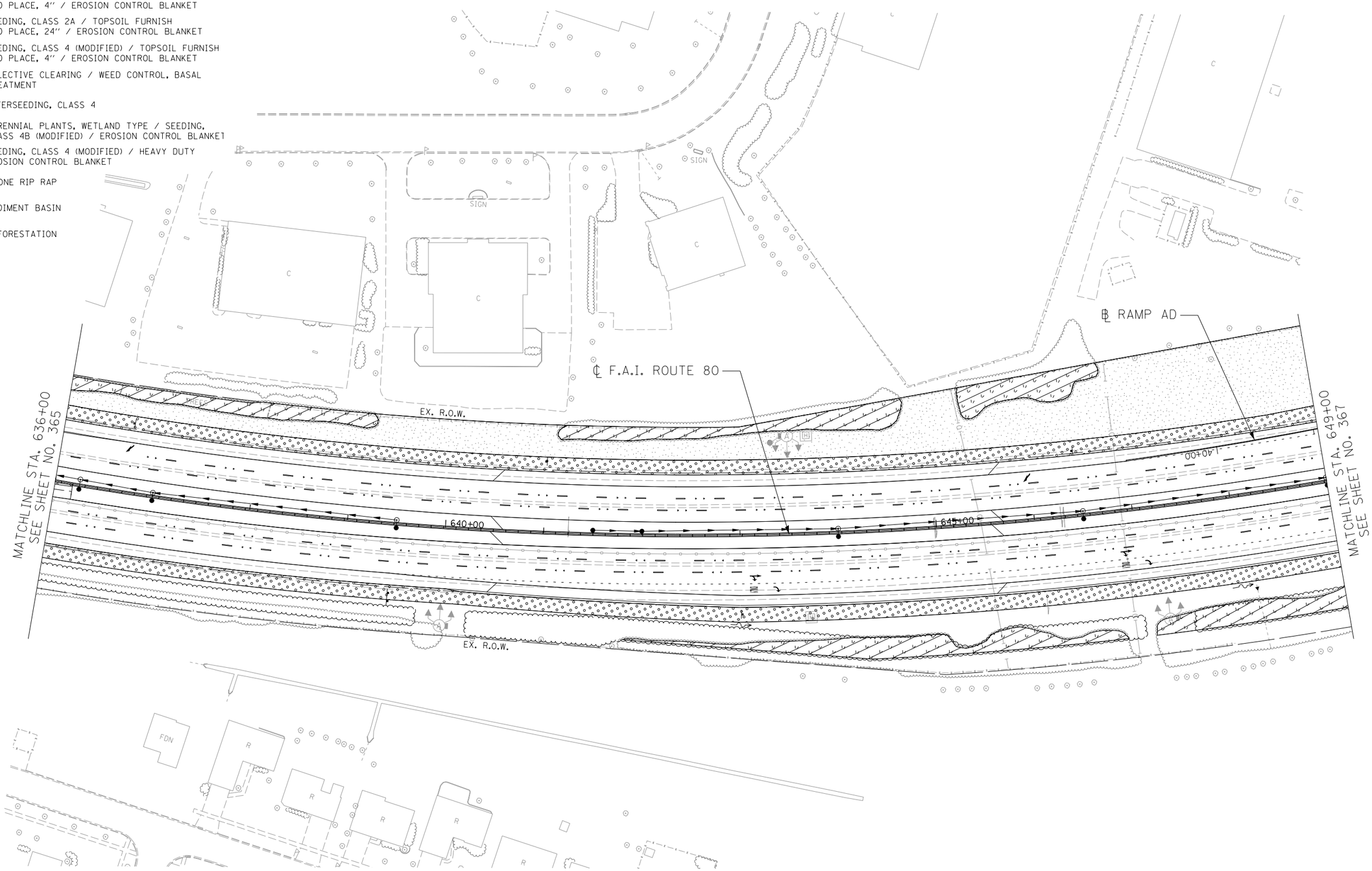
LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - RK	REVISED - 05/2018 SL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. 80 / US 30 INTERCHANGE LANDSCAPING PLANS
		DRAWN - RK	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -		

SCALE	SHEET NO.	STA.
1"=50'	1 OF 11 SHEETS	618+00 TO STA. 636+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	365
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SELECTIVE CLEARING / WEED CONTROL, BASAL TREATMENT
- INTERSEEDING, CLASS 4
- PERENNIAL PLANTS, WETLAND TYPE / SEEDING, CLASS 4B (MODIFIED) / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION



0 50' 100'

SCALE: 1" = 50'

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - RK	REVISED - 05/2018 SL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. 80 / US 30 INTERCHANGE LANDSCAPING PLANS
		DRAWN - RK	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -		
	PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -		SCALE: 1"=50' | SHEET NO. 2 OF 11 SHEETS | STA. 636+00 TO STA. 649+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	366
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
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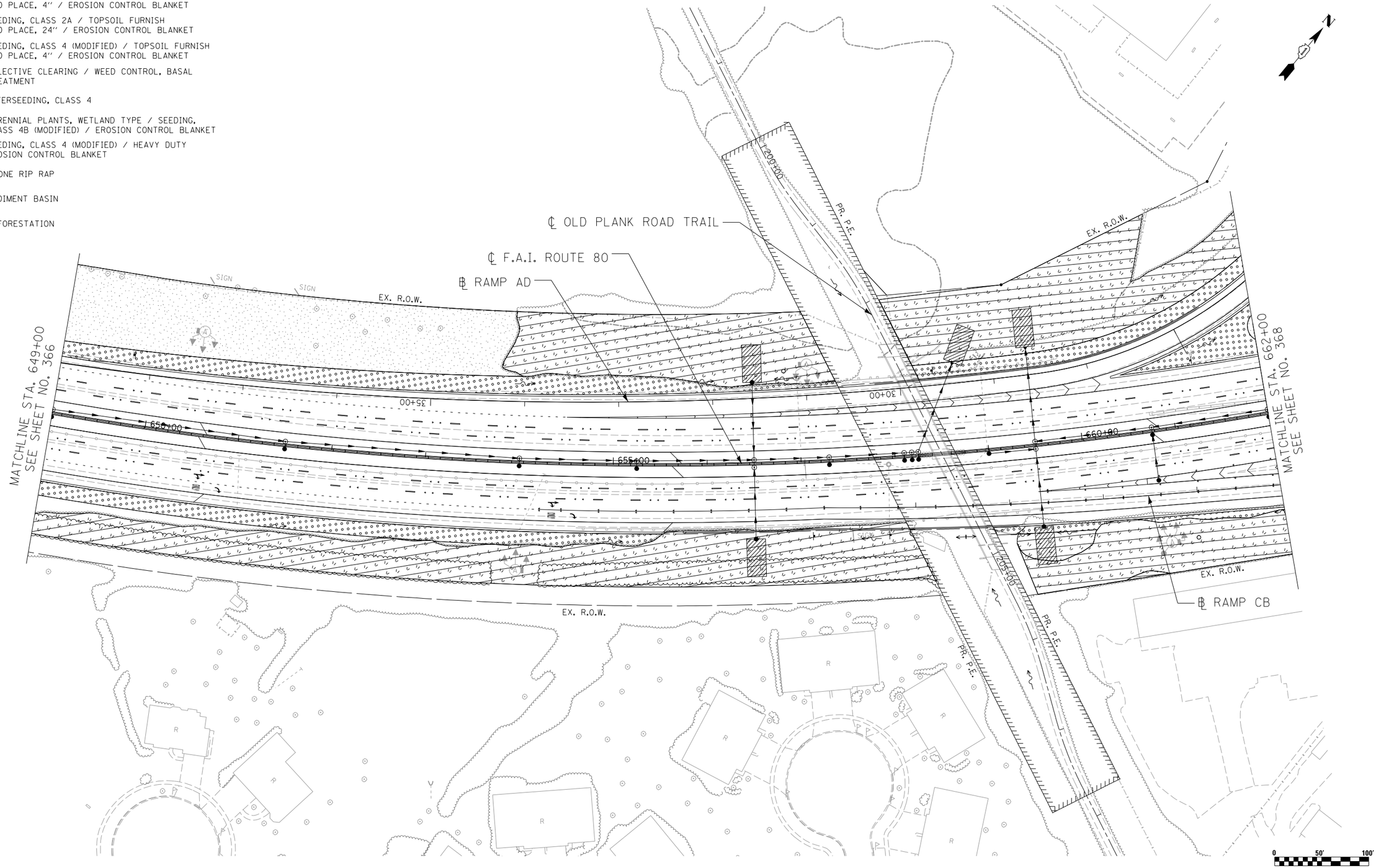
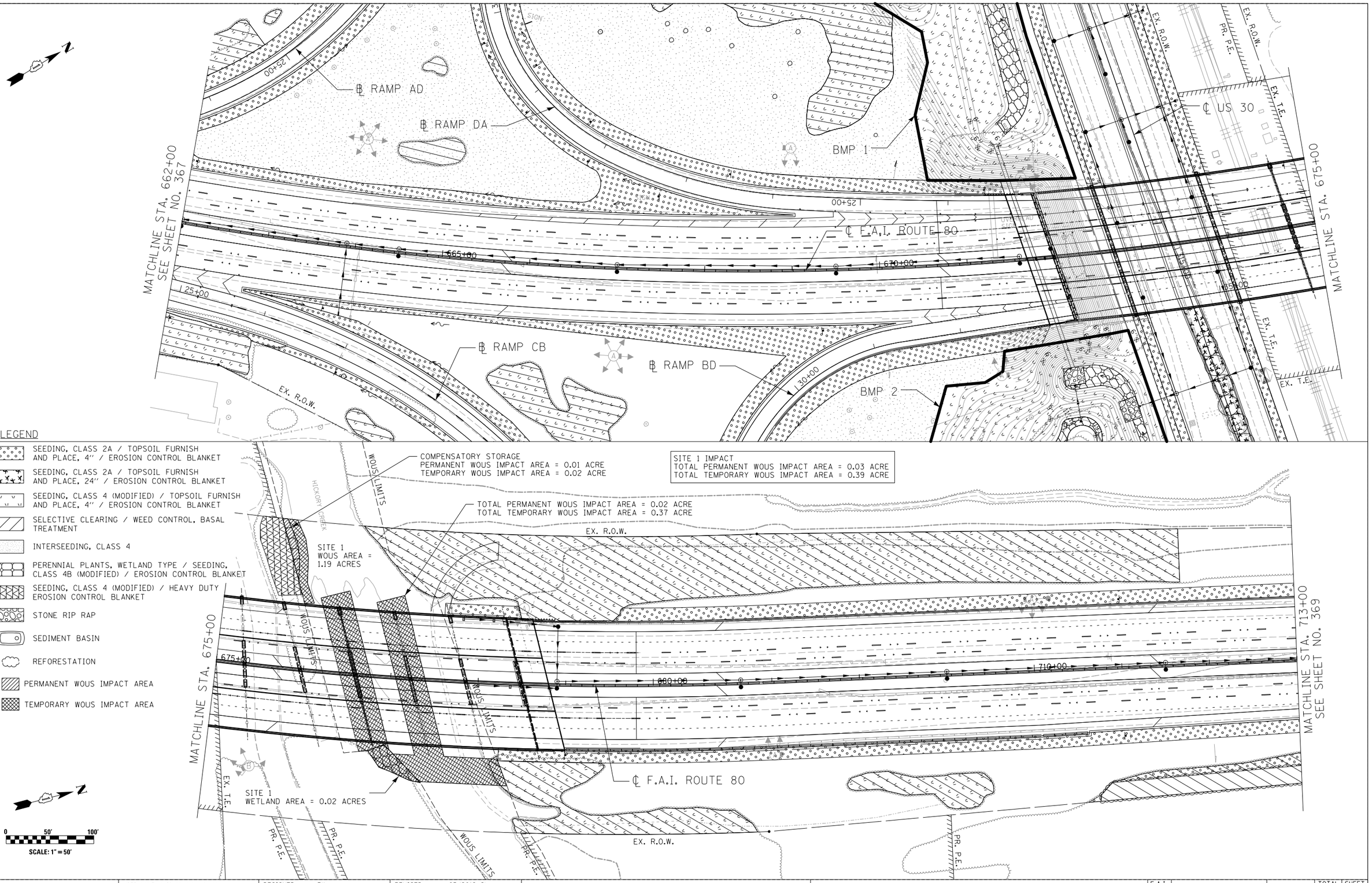
- SELECTIVE CLEARING / WEED CONTROL, BASAL TREATMENT
- INTERSEEDING, CLASS 4
- PERENNIAL PLANTS, WETLAND TYPE / SEEDING, CLASS 4B (MODIFIED) / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION



LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - RK	REVISED - 05/2018 SL	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. 80 / US 30 INTERCHANGE LANDSCAPING PLANS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RK	REVISED -					80	99-4-1VB-1-R	WILL	840	367
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -							CONTRACT NO. 60N87		
	PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -		SCALE: 1"=50'	SHEET NO. 3 OF 11 SHEETS	STA. 649+00 TO STA. 662+00	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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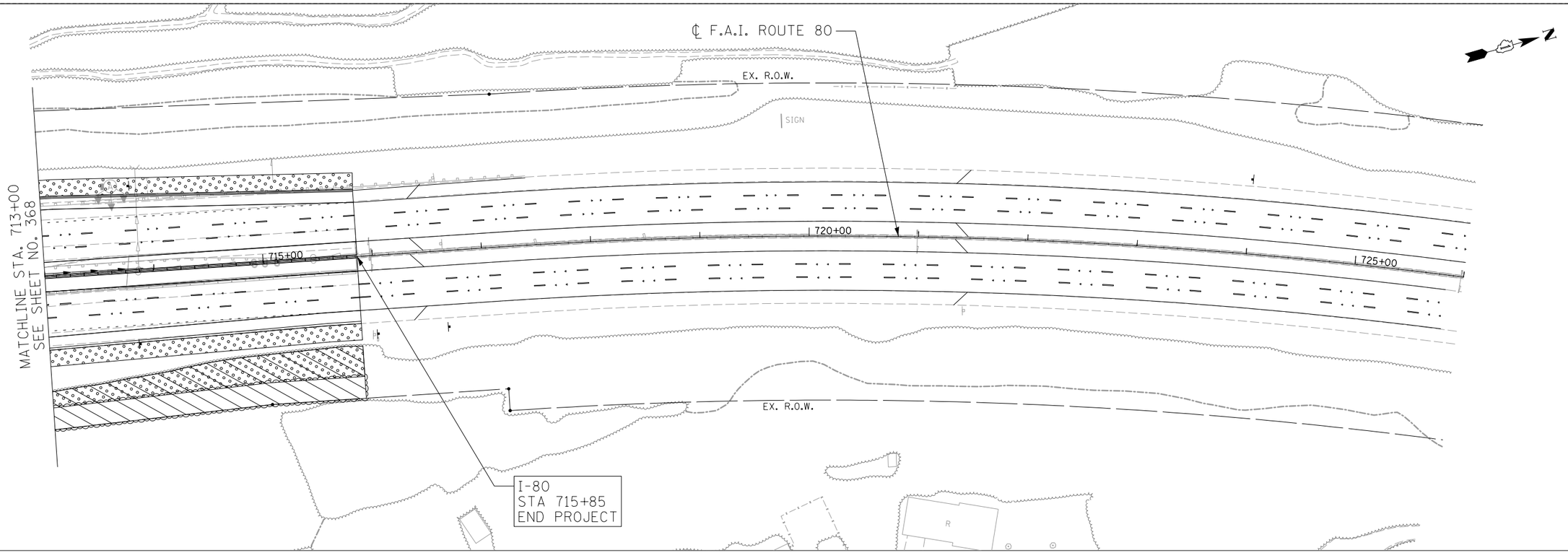
PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET NO. 4 OF 11 SHEETS | STA. 662+00 TO STA. 713+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	368
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LEGEND

- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SELECTIVE CLEARING / WEED CONTROL, BASAL TREATMENT
- INTERSEEDING, CLASS 4
- PERENNIAL PLANTS, WETLAND TYPE / SEEDING, CLASS 4B (MODIFIED) / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION

0 50' 100'

SCALE: 1" = 50'

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET NO. 5 OF 11 SHEETS | STA. 713+00 TO STA. 726+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	369
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
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- INTERSEEDING, CLASS 4
- PERENNIAL PLANTS, WETLAND TYPE / SEEDING, CLASS 4B (MODIFIED) / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION

℄ US 30

BMP 1

℄ F.A.I. ROUTE 80

MATCHLINE STA. 27+00

℄ RAMP AD

℄ RAMP DA

℄ OLD PLANK ROAD TRAIL

EX. R.O.W.

PR. P.E.

MATCHLINE STA. 21+00

SCALE: 1" = 50'

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - RK	REVISED - 05/2018 SL
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	PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET NO. 6 OF 11 SHEETS | STA. 15+61 TO STA. 40+93

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	370
	RAMP AD	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
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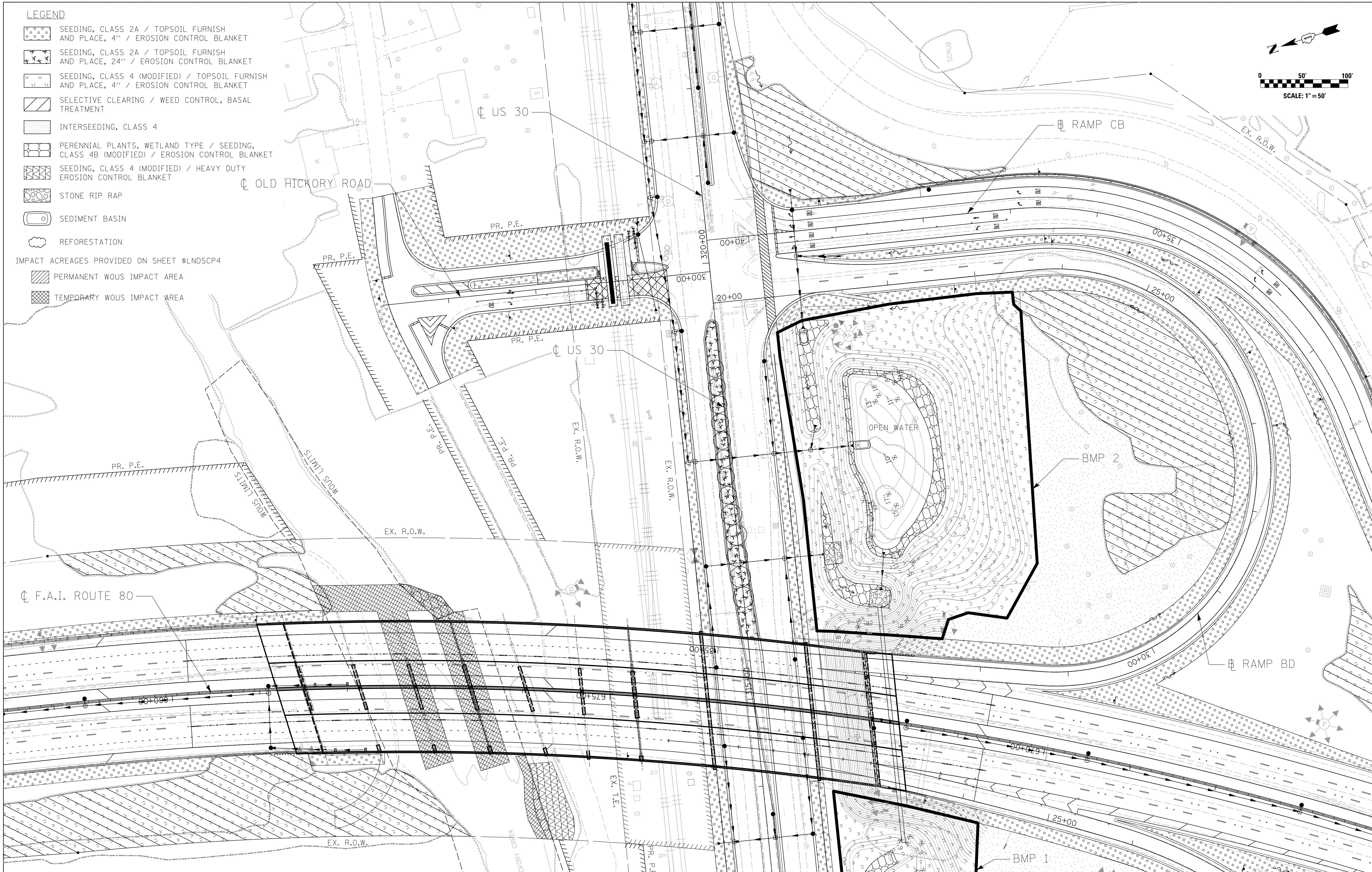
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION

IMPACT ACREAGES PROVIDED ON SHEET $LNDSCP4

- PERMANENT WOUS IMPACT AREA
- TEMPORARY WOUS IMPACT AREA



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		DRAWN - RK	REVISED -	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -	
	PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -	

F.A.I. 80 / US 30 INTERCHANGE
LANDSCAPING PLANS

SCALE: 1"=50'	SHEET NO. 7 OF 11 SHEETS	STA. 20+00 TO STA. 35+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	371
	RAMP BD	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

EX. R.O.W.

30+00

660+00

25+00

℄ F.A.I. ROUTE 80

EX. R.O.W.

EX. R.O.W.

EX. R.O.W.

20+00

PR. P.E.

PR. P.E.

PR. P.E.

℄ RAMP CB

℄ RAMP BD

30+00

MATCHLINE STA. 34+00

LEGEND

- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SELECTIVE CLEARING / WEED CONTROL, BASAL TREATMENT
- INTERSEEDING, CLASS 4
- PERENNIAL PLANTS, WETLAND TYPE / SEEDING, CLASS 4B (MODIFIED) / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION

BMP 2

OPEN WATER

15' x 17'

10' x 11'

13' x 18'

℄ RAMP BD

MATCHLINE STA. 34+00

20+00

25+00

35+00

40+00

300+00

320+00

EX. R.O.W.

EX. R.O.W.

℄ US 30

PR. P.E.

PR. P.E.

PR. P.E.

PR. P.E.

PR. P.E.

PR. P.E.

℄ RAMP CB

℄ OLD HICKORY ROAD

EX. R.O.W.

0 50' 100'

SCALE: 1"=50'

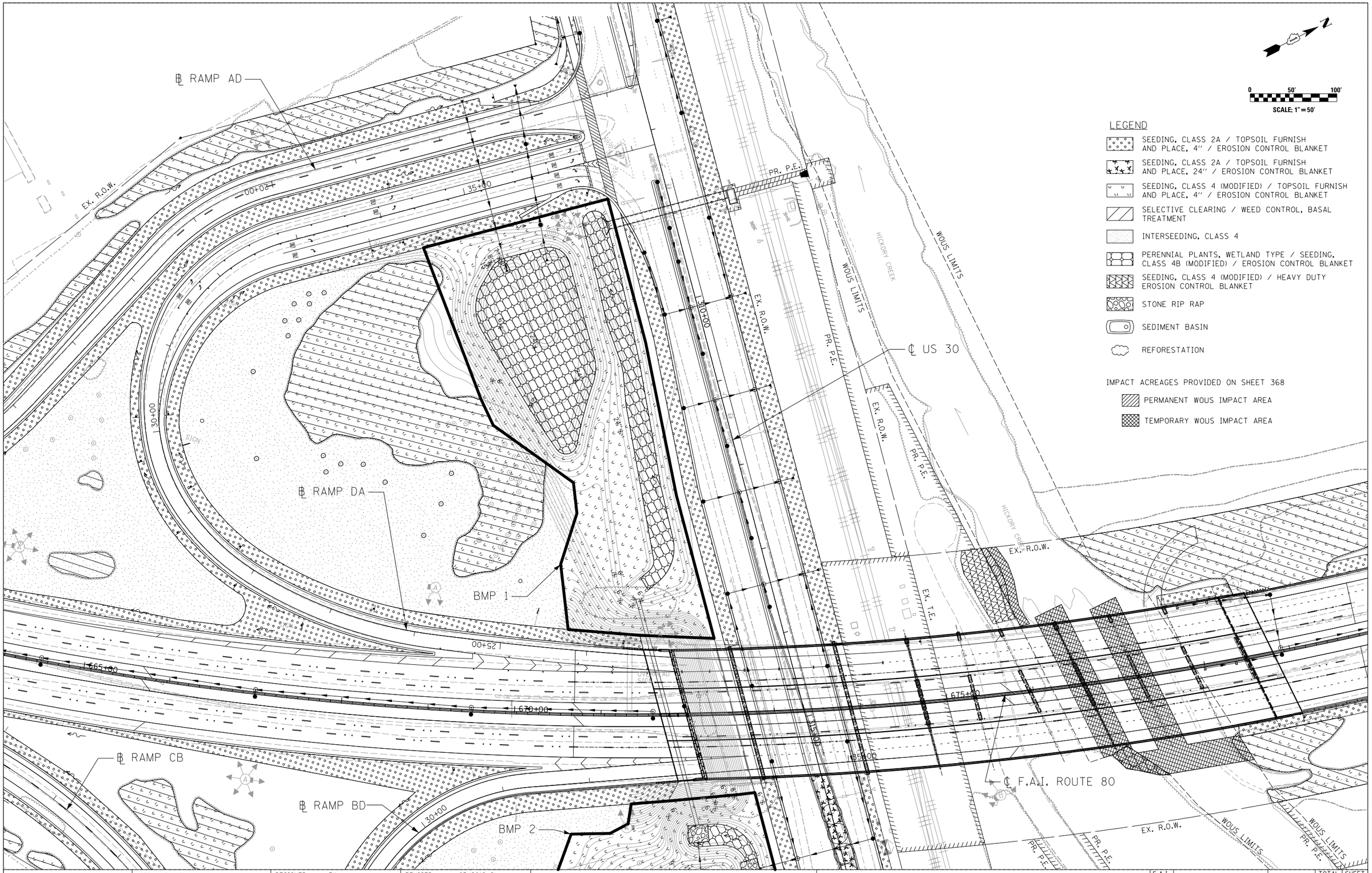
LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois Westmont, Illinois	USER NAME = Plotted by lin44	DESIGNED - RK	REVISED - 05/2018 SL
		DRAWN - RK	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET NO. 8 OF 11 SHEETS | STA. 20+00 TO STA. 40+48

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	372
	RAMP CB	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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PLOT DATE = 5/10/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
LANDSCAPING PLANS

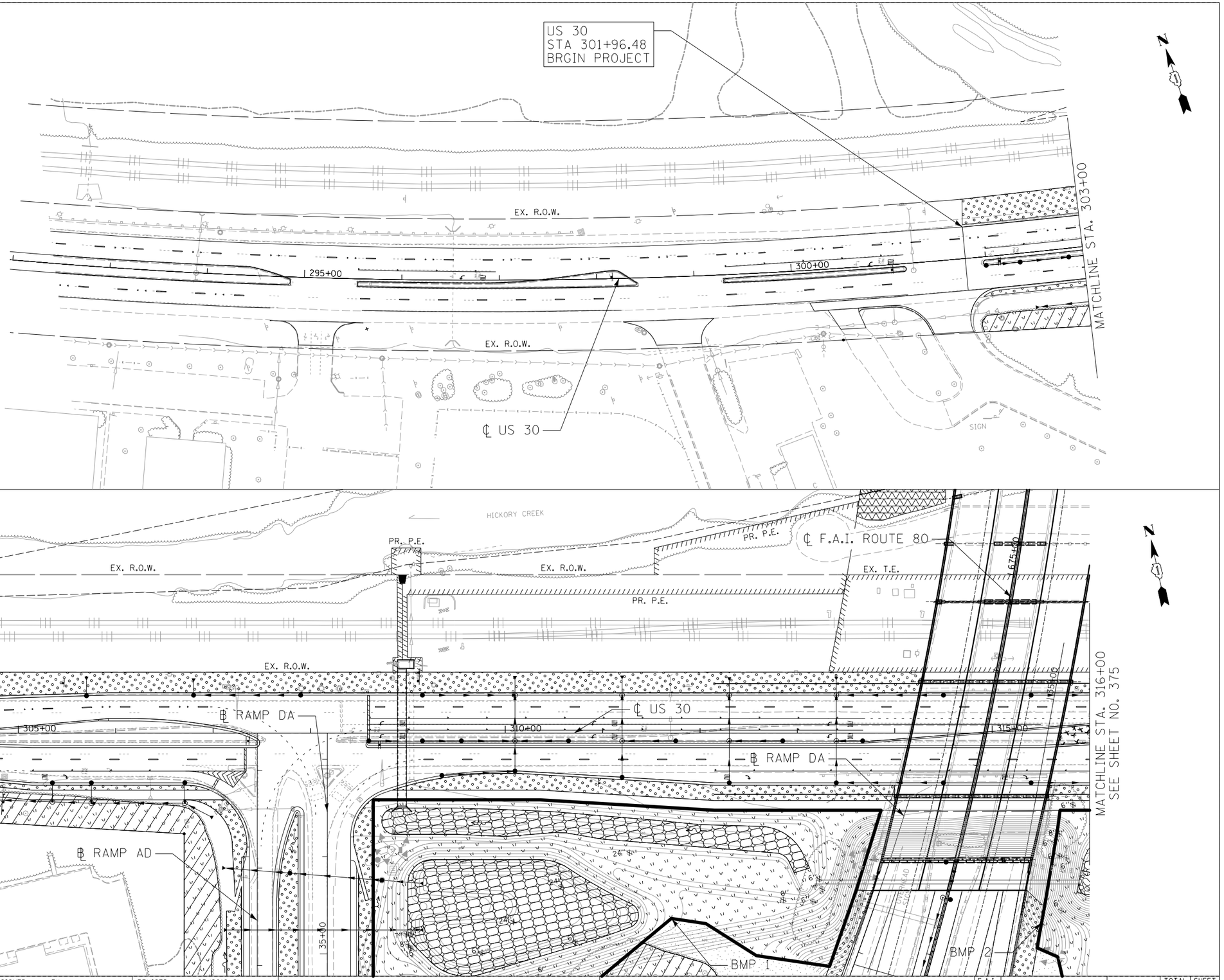
SCALE: 1"=50' | SHEET NO. 9 OF 11 SHEETS | STA. 22+33 TO STA. 37+27

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	373
	RAMP DA	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SELECTIVE CLEARING / WEED CONTROL, BASAL TREATMENT
- INTERSEEDING, CLASS 4
- PERENNIAL PLANTS, WETLAND TYPE / SEEDING, CLASS 4B (MODIFIED) / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION

0 50' 100'
SCALE: 1" = 50'



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LIN ENGINEERING, LTD.
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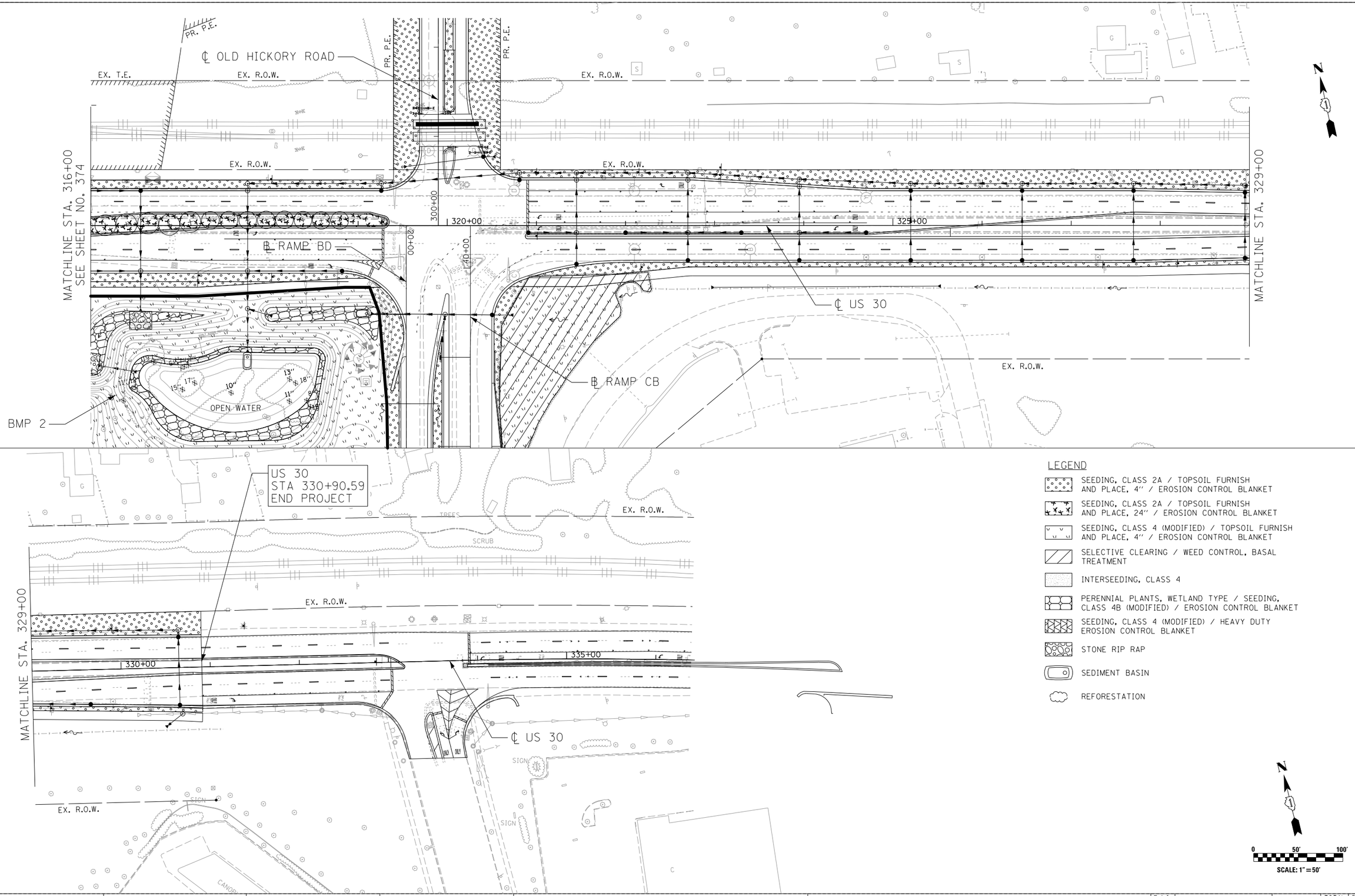
Westmont, Illinois

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET NO. 10 OF 11 SHEETS | STA. 292+00 TO STA. 316+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	374
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LEGEND

- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 24" / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- SELECTIVE CLEARING / WEED CONTROL, BASAL TREATMENT
- INTERSEEDING, CLASS 4
- PERENNIAL PLANTS, WETLAND TYPE / SEEDING, CLASS 4B (MODIFIED) / EROSION CONTROL BLANKET
- SEEDING, CLASS 4 (MODIFIED) / HEAVY DUTY EROSION CONTROL BLANKET
- STONE RIP RAP
- SEDIMENT BASIN
- REFORESTATION

LIN ENGINEERING, LTD.
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Chatham, Illinois
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
LANDSCAPING PLANS

SCALE: 1"=50' | SHEET NO. 11 OF 11 SHEETS | STA. 316+00 TO STA. 336+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	375
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF TRAFFIC SIGNAL QUANTITIES

			CONSTRUCTION FUND CODE							
			US 30 @ I-80 WB RAMPS		US 30 @ I-80 EB RAMPS		US 30 @ NELSON RD	US 30 @ VINE ST (NORTH)	US 30 @ VINE ST (SOUTH)	INTERCONNECT
ITEM	UNIT	TOTAL		*		*				
SIGN PANEL - TYPE 1	SQ FT	22.5	7.5		15					
SIGN PANEL - TYPE 2	SQ FT	21			21					
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	3556	697		851		357			1651
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	1506	682		824					
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	203	47		114		42			
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1721	667		832		222			
HANDHOLE	EACH	18	5		9		3			1
HEAVY-DUTY HANDHOLE	EACH	7	2		3		2			
DOUBLE HANDHOLE	EACH	6	3		3					
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4					1	1	1	1
TRANSCEIVER - FIBER OPTIC	EACH	5	1		1		1	1	1	
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	9394								9394
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1018	497		521					
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	2981	512	719	535	1015	201			
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	5368	2086		2919		364			
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	3891	1074		2081		736			
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	18083	6755		8946		1366			
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	165			165					
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	130	71		59					
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2557	905		1201		451			
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1			1					
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 12 FT.	EACH	1			1					
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	1			1					
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	3	2		1					
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT.	EACH	2	1		1					
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1	1							
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1			1					
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1	1							
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1	1							
STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1			1					
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1			1					
CONCRETE FOUNDATION, TYPE A	FOOT	40	12		20		8			
CONCRETE FOUNDATION, TYPE C	FOOT	8	4		4					
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	14					14			
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	65	37		28					
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21			21					
DRILL EXISTING HANDHOLE	EACH	3								3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	16	7		9					
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	10	4		6					
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2			2					
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST-ARM MOUNTED	EACH	2			2					
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4	2		2					
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4	2		2					
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2			2					
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2							
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	22	9		13					
INDUCTIVE LOOP DETECTOR	EACH	55	15		22		6	6	6	
DETECTOR LOOP, TYPE I	EACH	294					294			
PREFORMED DETECTOR LOOP	FOOT	3605	1288		2223		93			
LIGHT DETECTOR	EACH	9		4		5				
LIGHT DETECTOR AMPLIFIER	EACH	2		1		1				
PEDESTRIAN PUSH-BUTTON	EACH	4	2		2					
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3	1		1		1			
REMOVE EXISTING SERVICE INSTALLATION	EACH	2	1		1					
RELOCATE EXISTING SIGNAL HEAD	EACH	5					5			
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	1					1			
RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	1					1			
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1					1			
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	3					1	1	1	
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	9931					2920			7011
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5	1		1		1	1	1	
REMOVE EXISTING HANDHOLE	EACH	23	6		12		4			1
REMOVE EXISTING DOUBLE HANDHOLE	EACH	4	2		2					
REMOVE EXISTING CONCRETE FOUNDATION	EACH	18	8		10					
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1								1
STEEL CASING 8"	FOOT	62			62					
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	1		1		1			
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	4138		1765		2172	201			
ROD AND CLEAN EXISTING CONDUIT	FOOT	5407								5407
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1	1							
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	2	1		1					
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1			1					
FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	2					1		1	
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1						1		
MASTER CONTROLLER (SPECIAL)	EACH	1						1		
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2	1		1					
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	3					1	1	1	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	9524								9524

* 100% COST TO NEW LENOX FIRE PROTECTION DISTRICT

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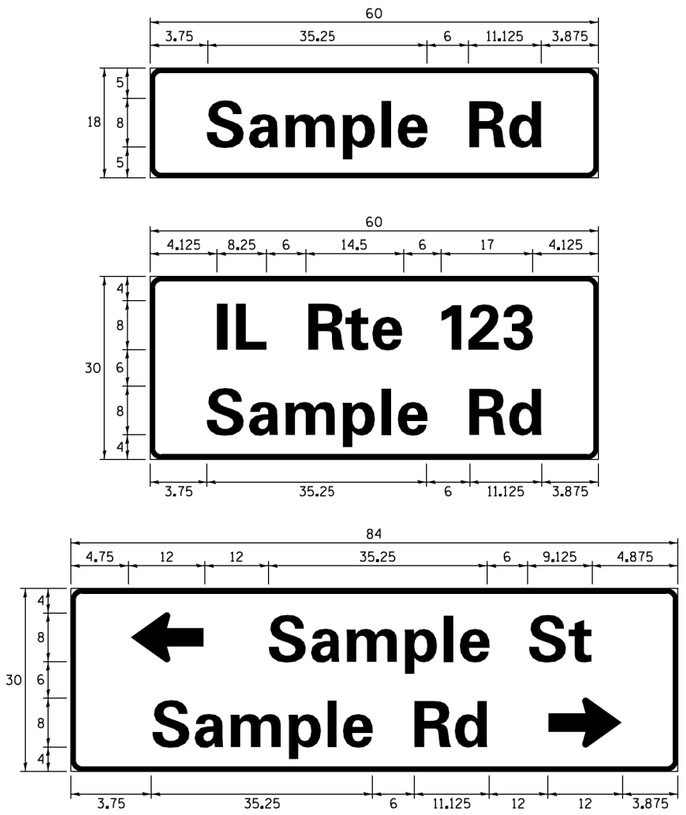
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
F.A.I. 80 / US 30 INTERCHANGE
US 30 FROM GOUGAR RD. TO VINE ST. (SOUTH)

SCALE: N/A | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	376
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUX OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8"-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
5. LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

- J.O. HERBERT COMPANY, INC
  MIDLOTHIAN, VA
- WESTERN REMAC, INC.
  WOODRIDGE, IL

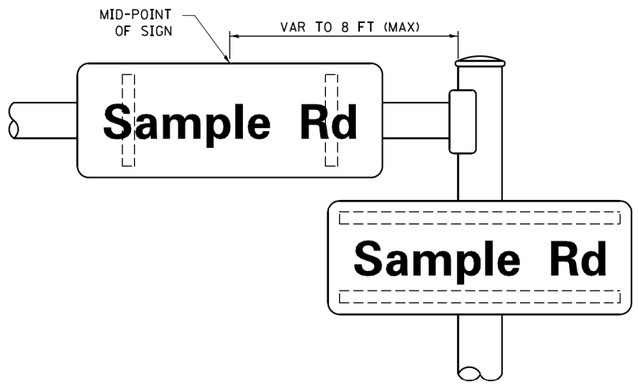
PARTS LISTING:

SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

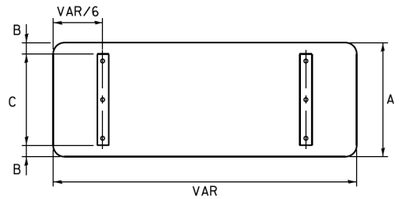
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

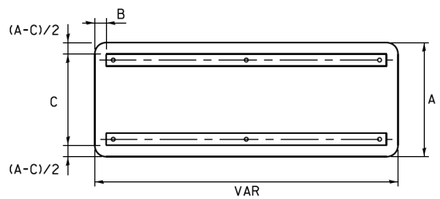
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)	CHARACTER	LEFT SPACING (INCH)	WIDTH (INCH)	RIGHT SPACING (INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

USER NAME = Plotted by lin44	DESIGNED - LP/IP	REVISED -
	DRAWN - LP	REVISED -
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PLOT DATE = 5/9/2018	DATE - 10/01/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	377
	TS 02	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		R	
COMMUNICATIONS CABINET	R	CC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY	R	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G Y G	R Y G Y G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD "RB" INDICATES REFLECTIVE BACKPLATE		R Y G Y G "P"	R Y G Y G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		36F	36F
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
QUEUE DETECTOR		Q	Q
PREFORMED QUEUE DETECTOR		PQ	PQ
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET	R	R
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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PLOT DATE = 5/9/2018	DATE - 10/28/09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 1 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	378
	TS 05	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

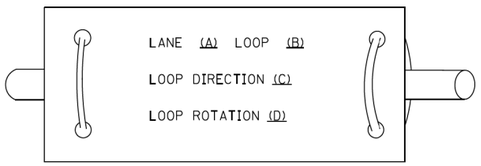
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

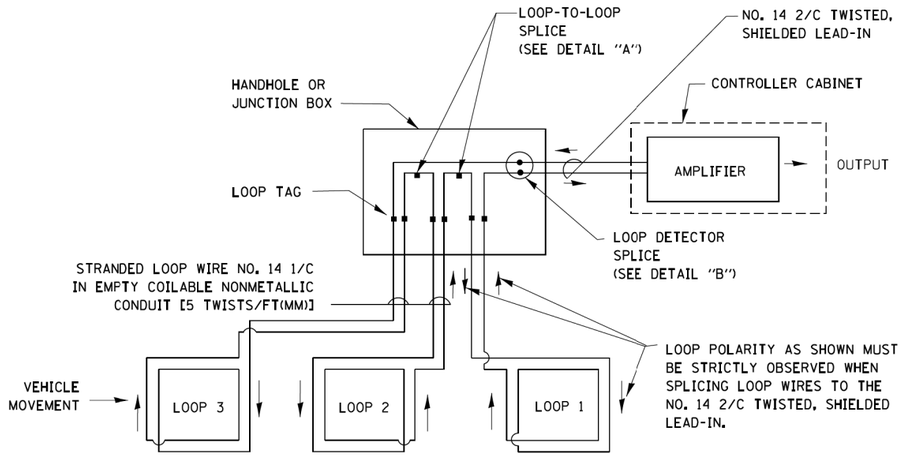


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

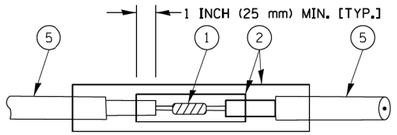
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

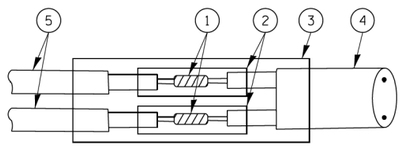


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

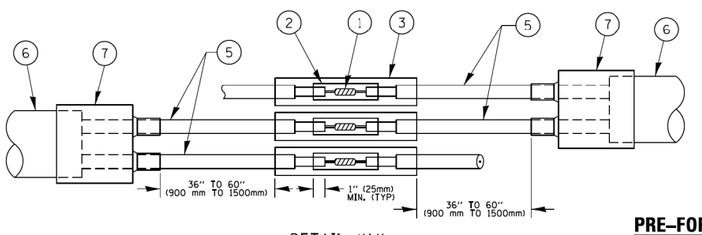


DETAIL "A"
LOOP-TO-LOOP SPLICE



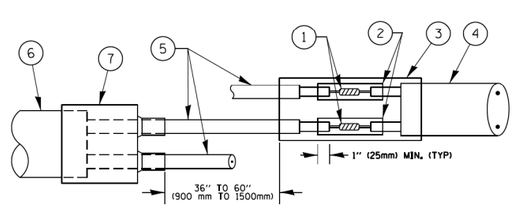
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

1. WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
2. WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
3. WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
4. NO. 14 2/C TWISTED, SHIELDED CABLE.
5. LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
6. PRE-FORMED LOOP
7. XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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PLOT DATE = 5/9/2018	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

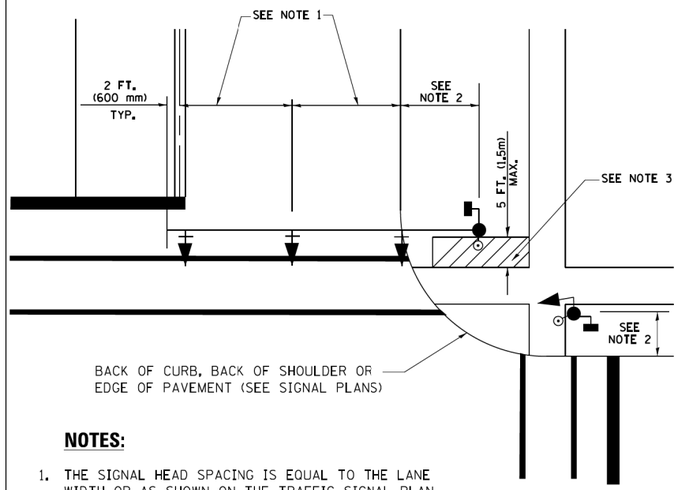
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 2 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	379
	TS 05	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

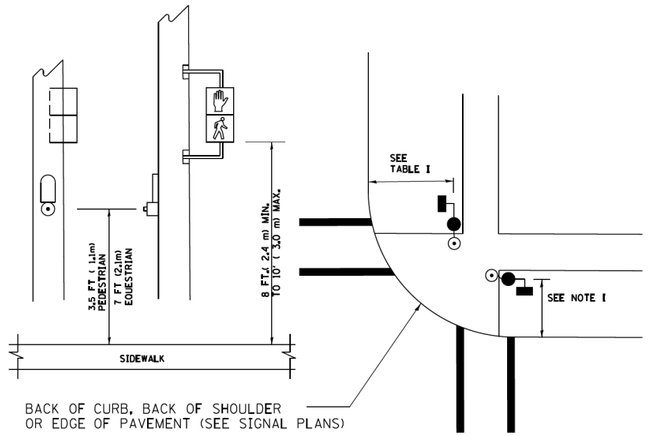
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

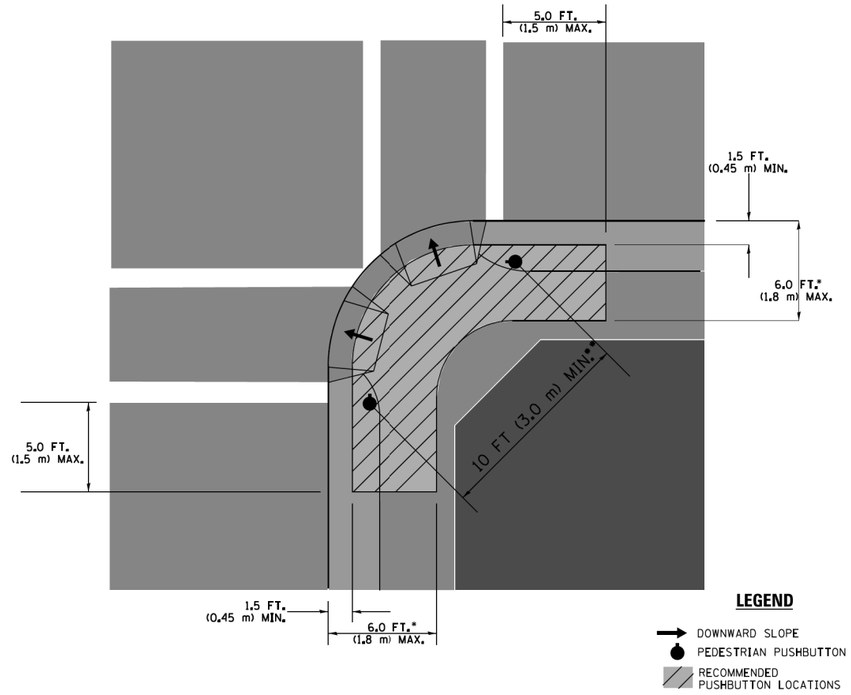
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

USER NAME = Plotted by lin44	DESIGNED - DAD	REVISED - DAG 1-1-14
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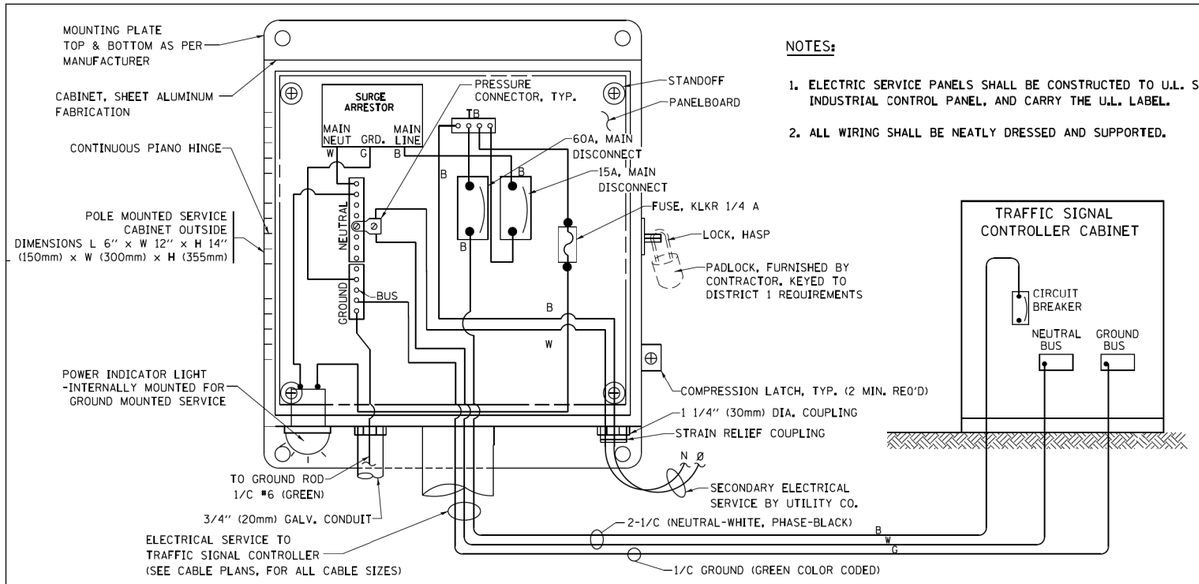
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 3 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	380
	TS 05	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



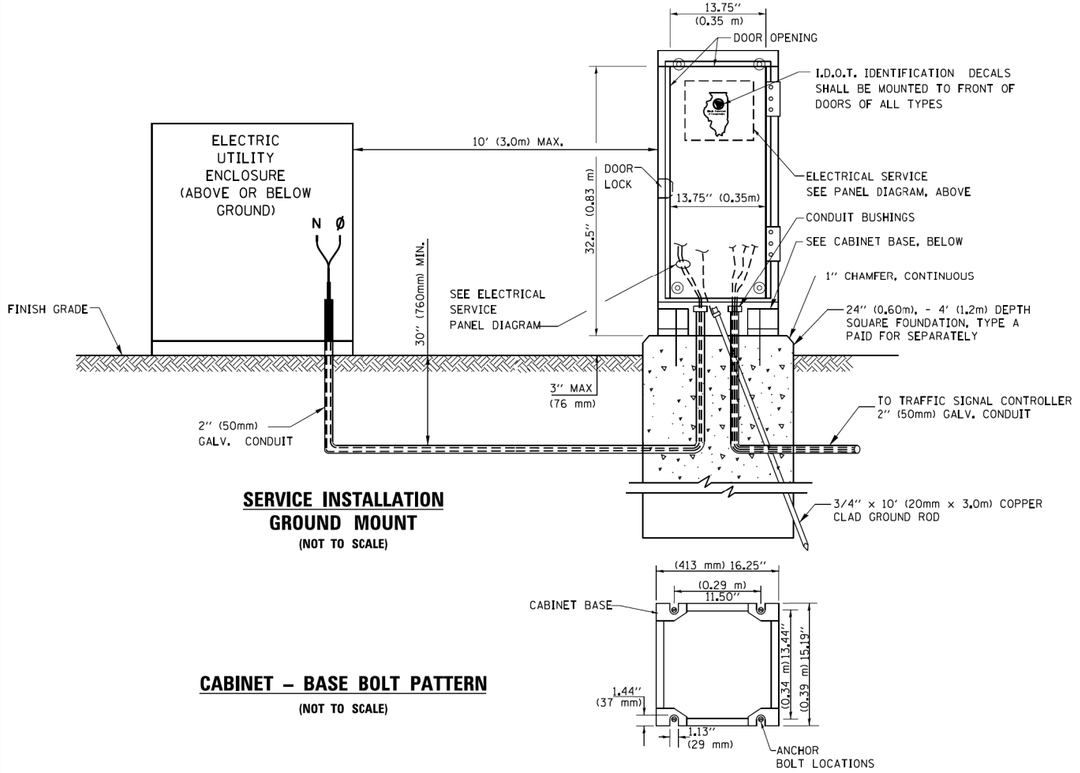
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

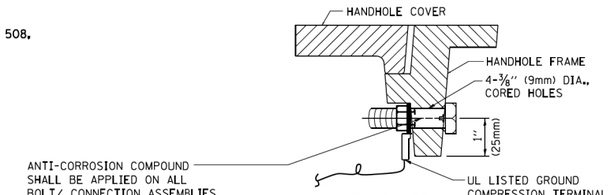


SERVICE INSTALLATION GROUND MOUNT

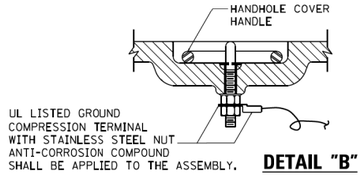
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

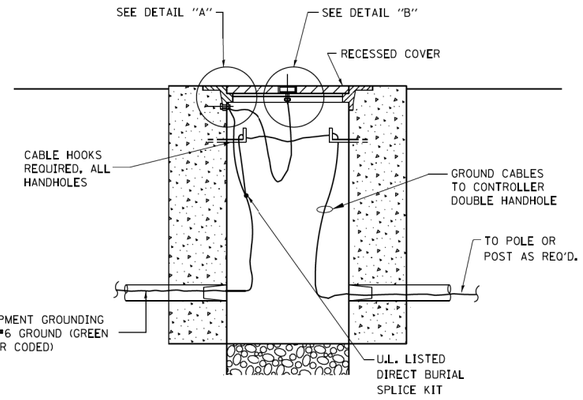
(NOT TO SCALE)



DETAIL "A"

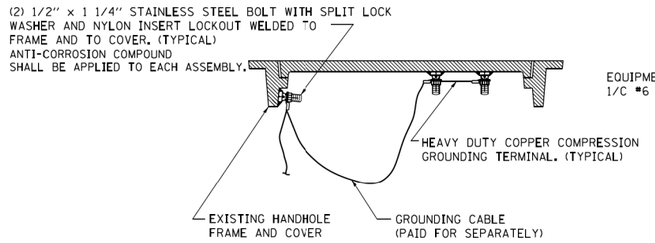


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

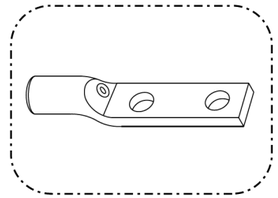


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

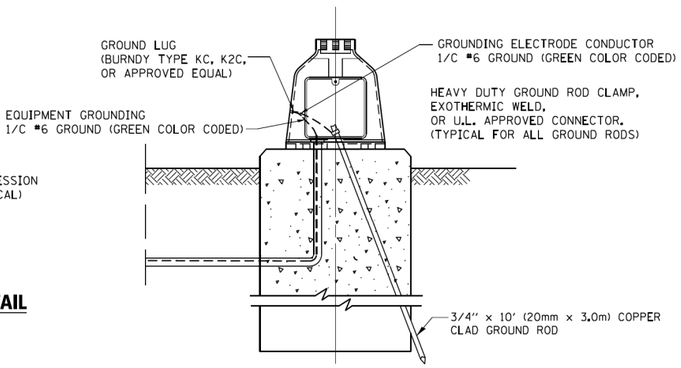


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

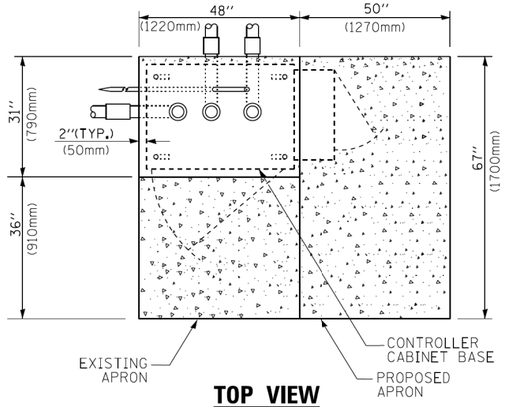
USER NAME = Plotted by lin44	DESIGNED - DAD	REVISED - DAG 1-1-14
	DRAWN - BCK	REVISED -
PLOT SCALE = 0.4000 ' / in.	CHECKED - DAD	REVISED -
PLOT DATE = 5/9/2018	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

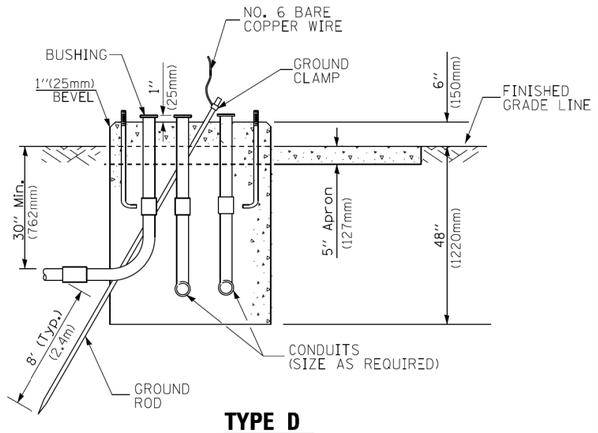
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 4 OF 7 SHEETS | STA. | TO STA.

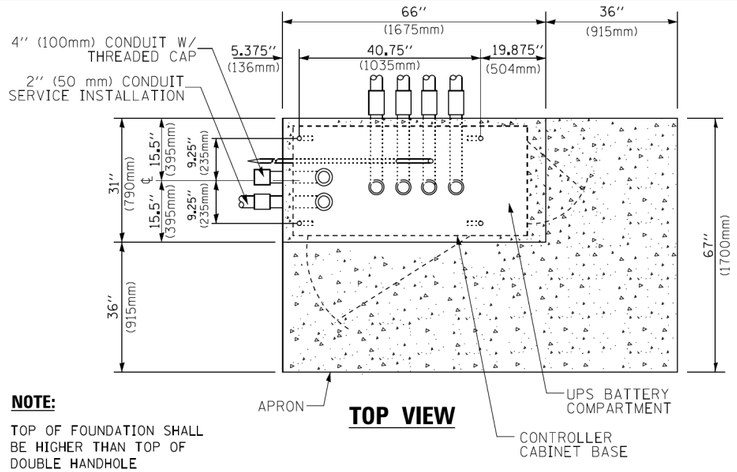
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	381
	TS 05	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TOP VIEW



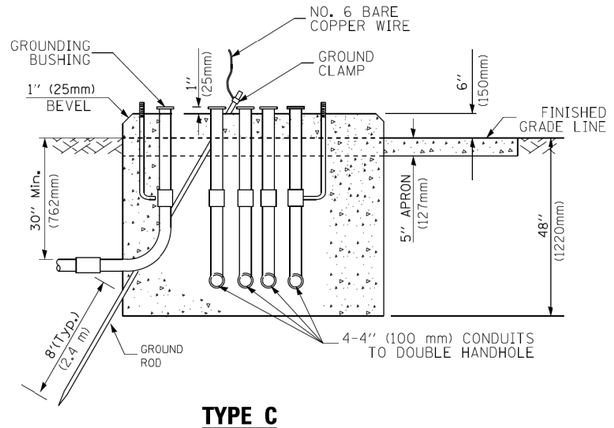
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



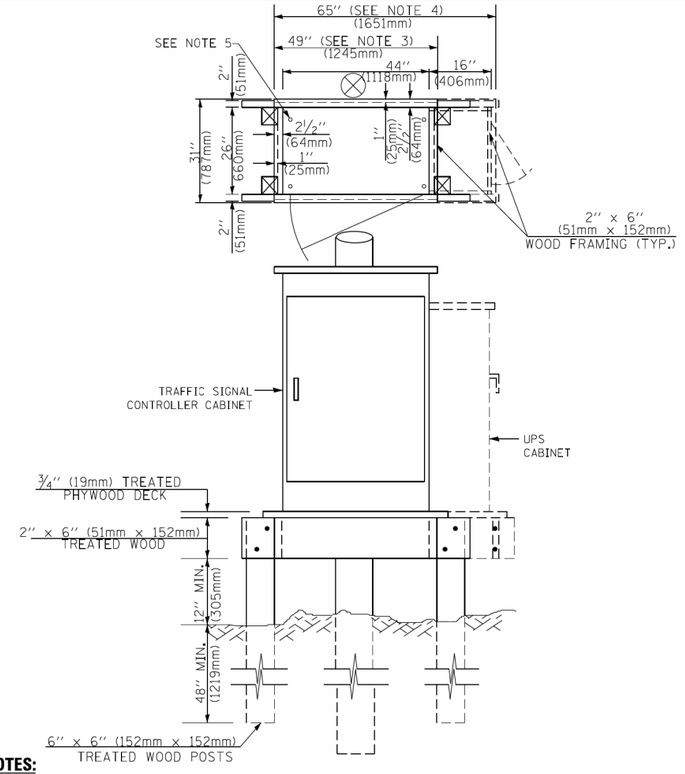
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

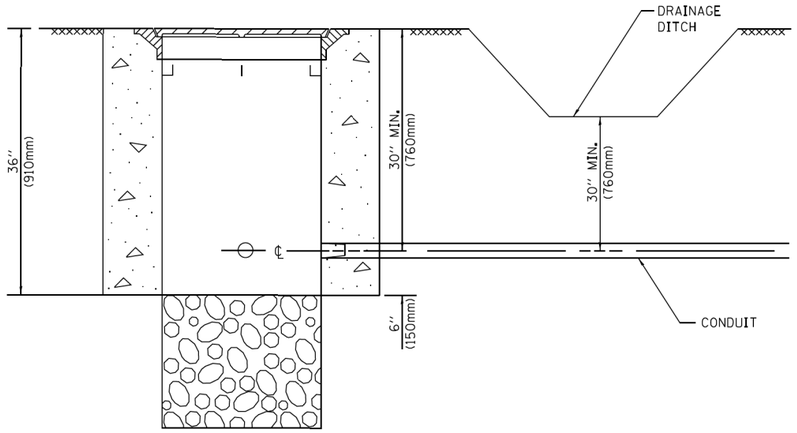
USER NAME = Plotted by lm44	DESIGNED - DAG	REVISED - DAG 1-1-14
	DRAWN - BCK	REVISED -
PLOT SCALE = 0.4000 ' / in.	CHECKED - DAD	REVISED -
PLOT DATE = 5/9/2018	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	382
	TS 05	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

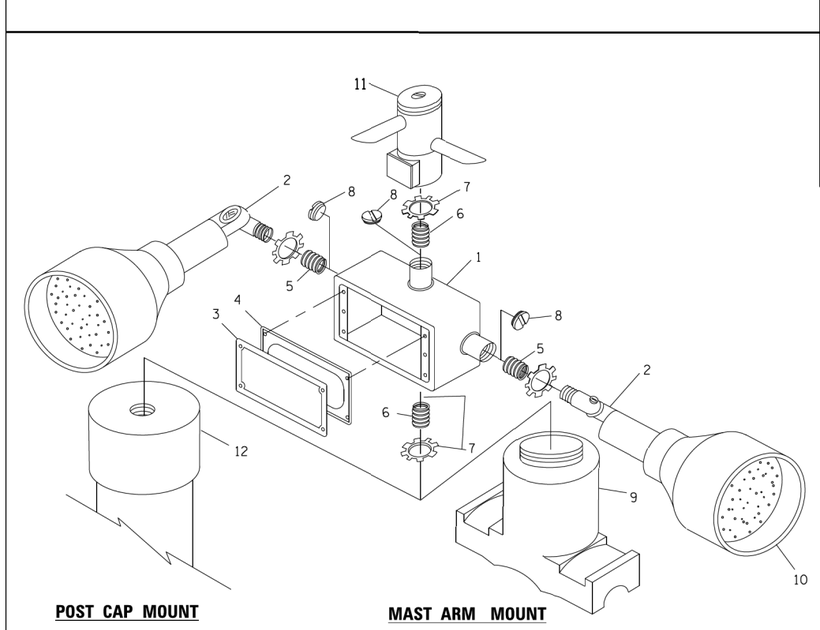


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



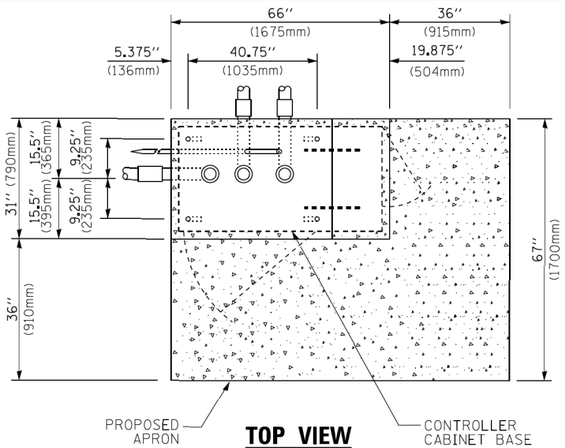
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

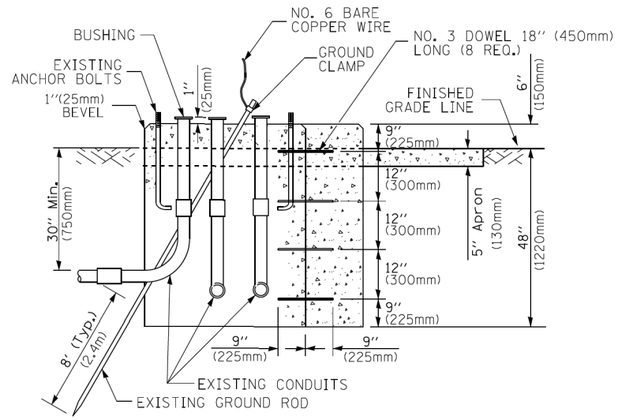
NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



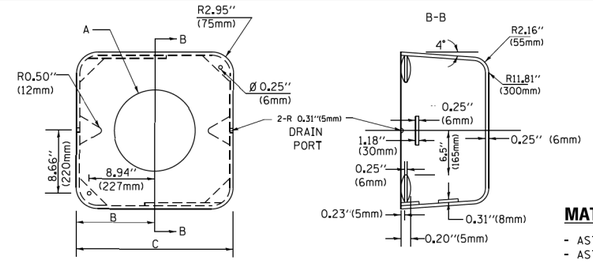
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

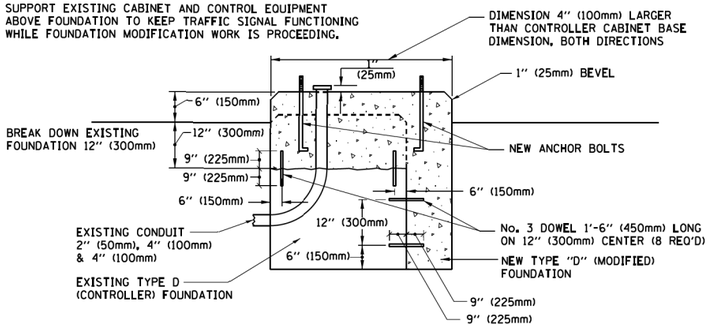
SHROUD

NOTES:

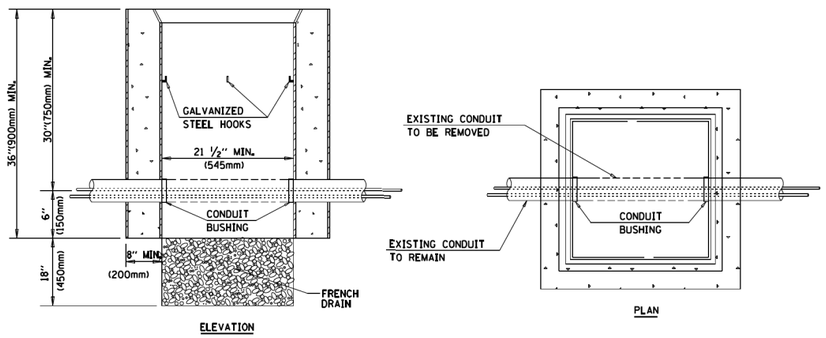
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

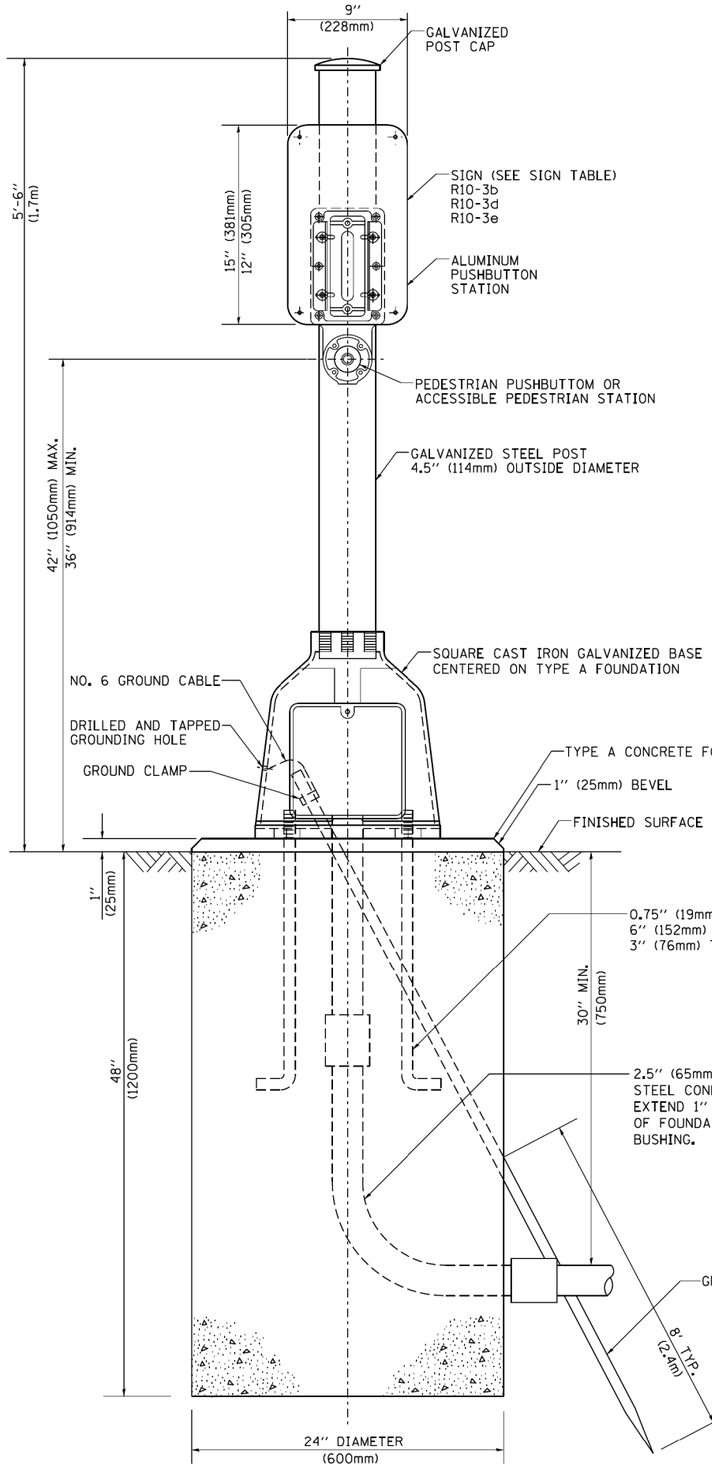
USER NAME = Plotted by lin44	DESIGNED - DAD	REVISED - DAG 1-1-14
	DRAWN - BCK	REVISED -
PLOT SCALE = 0.4000 ' / in.	CHECKED - DAD	REVISED -
PLOT DATE = 5/9/2018	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

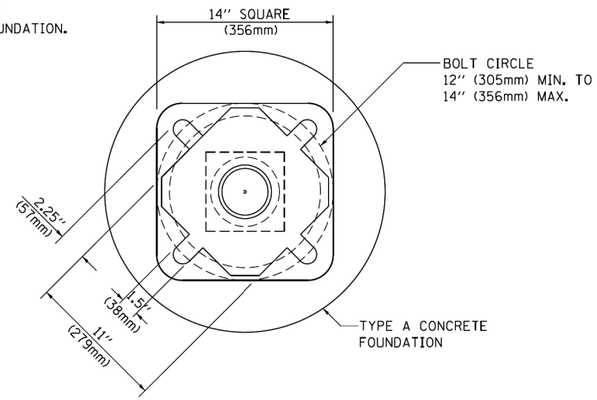
SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	383
	TS 05	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9'' (228mm) X 12'' (305mm)
R10-3d	9'' (228mm) X 12'' (305mm)
R10-3e	9'' (228mm) X 15'' (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

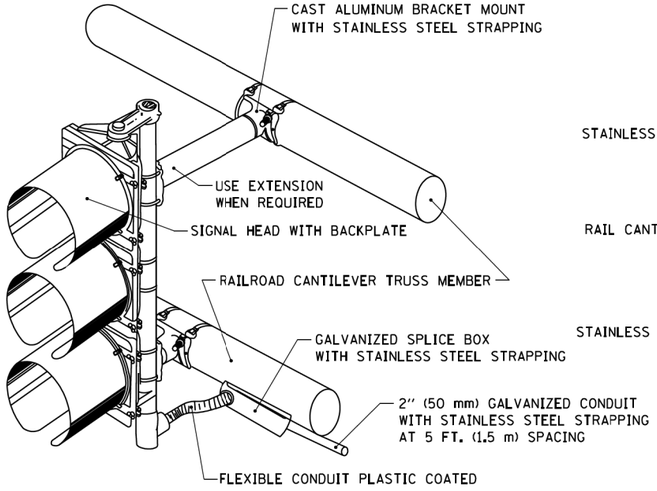
USER NAME = Plotted by lin44	DESIGNED - DAG	REVISED - DAG 1-1-14
	DRAWN - GND	REVISED -
PLOT SCALE = 0.4000 '/ in.	CHECKED - DAD	REVISED -
PLOT DATE = 5/9/2018	DATE - 10/1/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

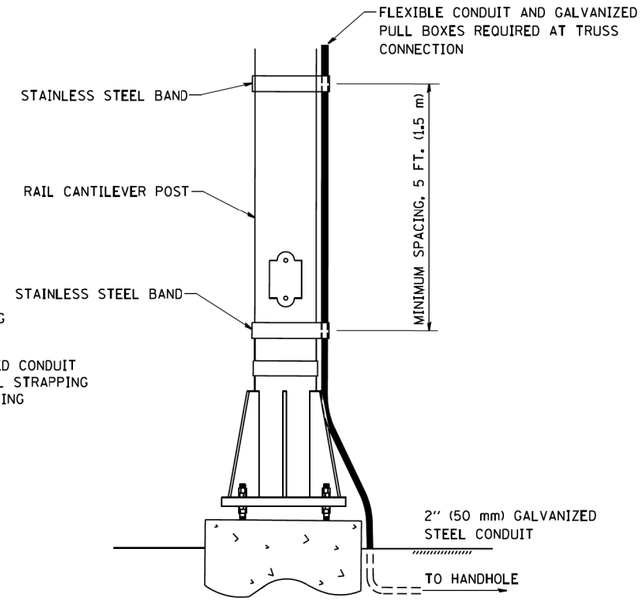
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

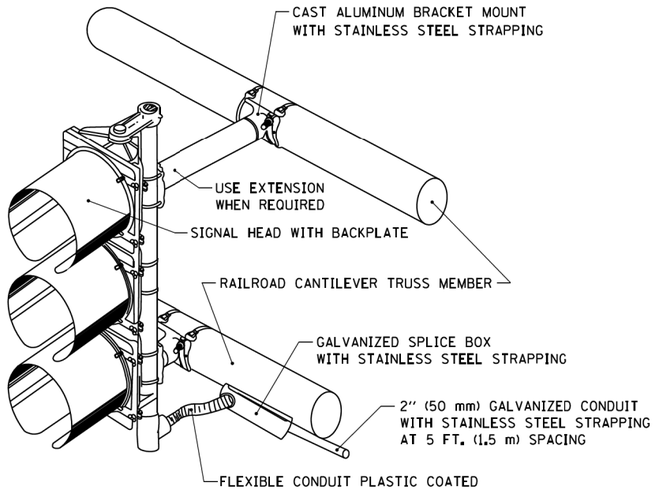
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	384
	TS 05	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



RAILROAD CANTILEVER SIGNAL HEAD MOUNTING

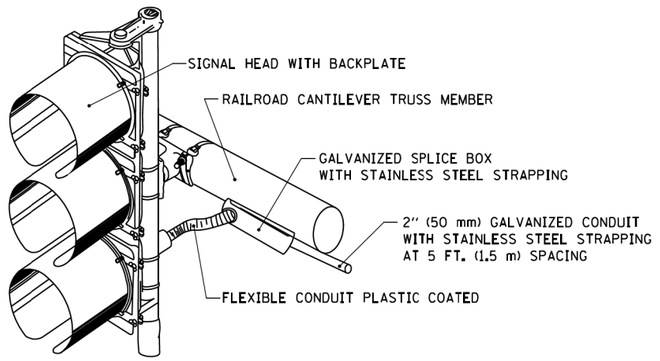


SIGNAL CONDUIT CONNECTION TO
RAIL CANTILEVER DETAIL



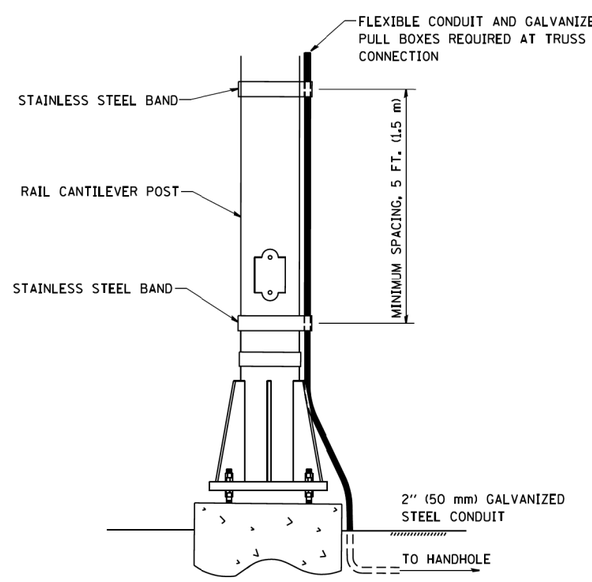
NOTE: USE NONCONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPTMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORRSION.

RAILROAD CANTILEVER SIGNAL HEAD MOUNTING



NOTE: USE NONCONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPTMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORRSION.

RAILROAD CANTILEVER SIGNAL HEAD MOUNTING



NOTE: USE NONCONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPTMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORRSION.

SIGNAL CONDUIT CONNECTION TO
RAIL CANTILEVER DETAIL

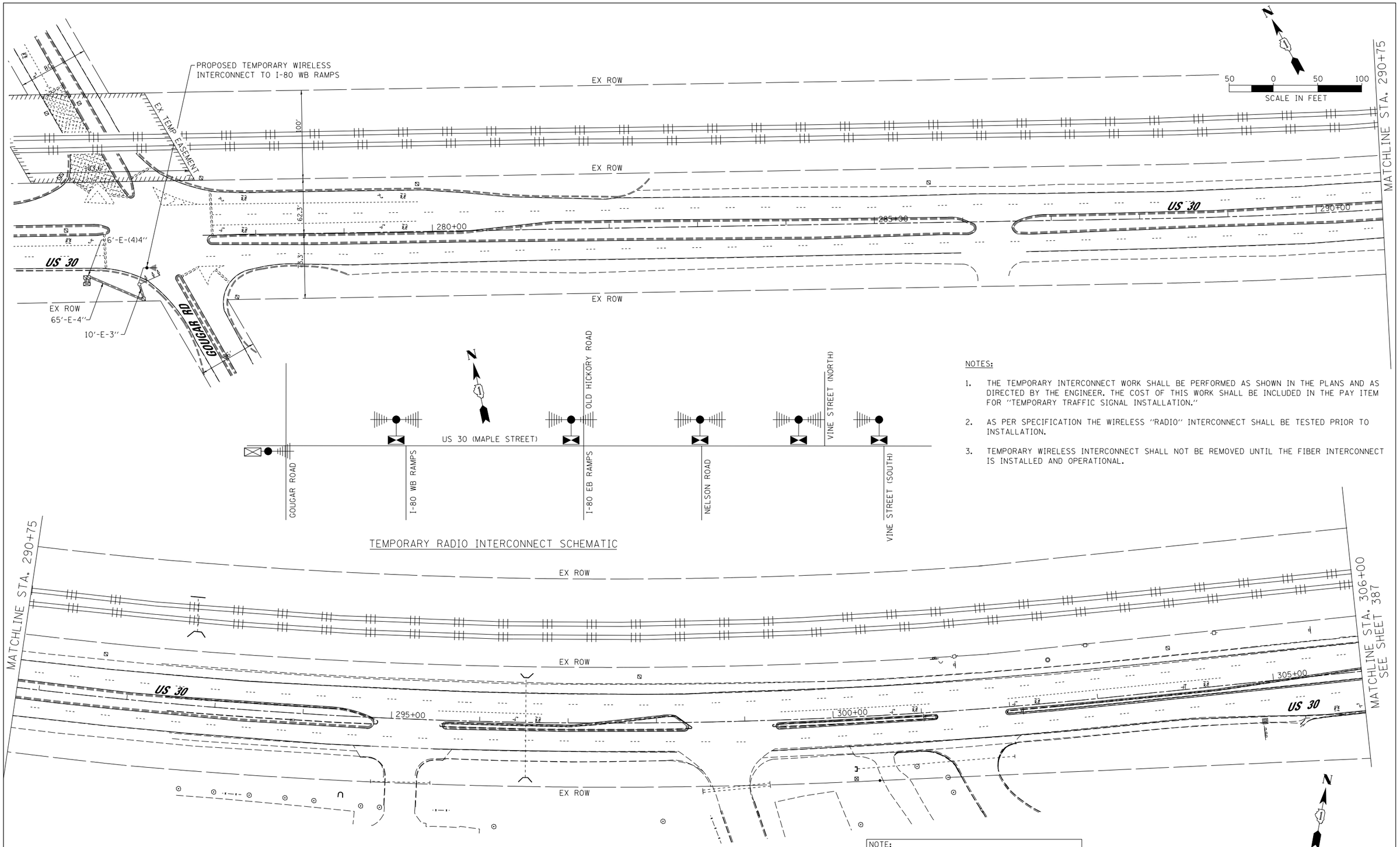
USER NAME = Plotted by lin44	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.4000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/9/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
RAILROAD CANTILEVER SIGNAL HEAD MOUNTING DETAIL

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	385
	TS 06	CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TEMPORARY RADIO INTERCONNECT SCHEMATIC

NOTES:

1. THE TEMPORARY INTERCONNECT WORK SHALL BE PERFORMED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
2. AS PER SPECIFICATION THE WIRELESS "RADIO" INTERCONNECT SHALL BE TESTED PRIOR TO INSTALLATION.
3. TEMPORARY WIRELESS INTERCONNECT SHALL NOT BE REMOVED UNTIL THE FIBER INTERCONNECT IS INSTALLED AND OPERATIONAL.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

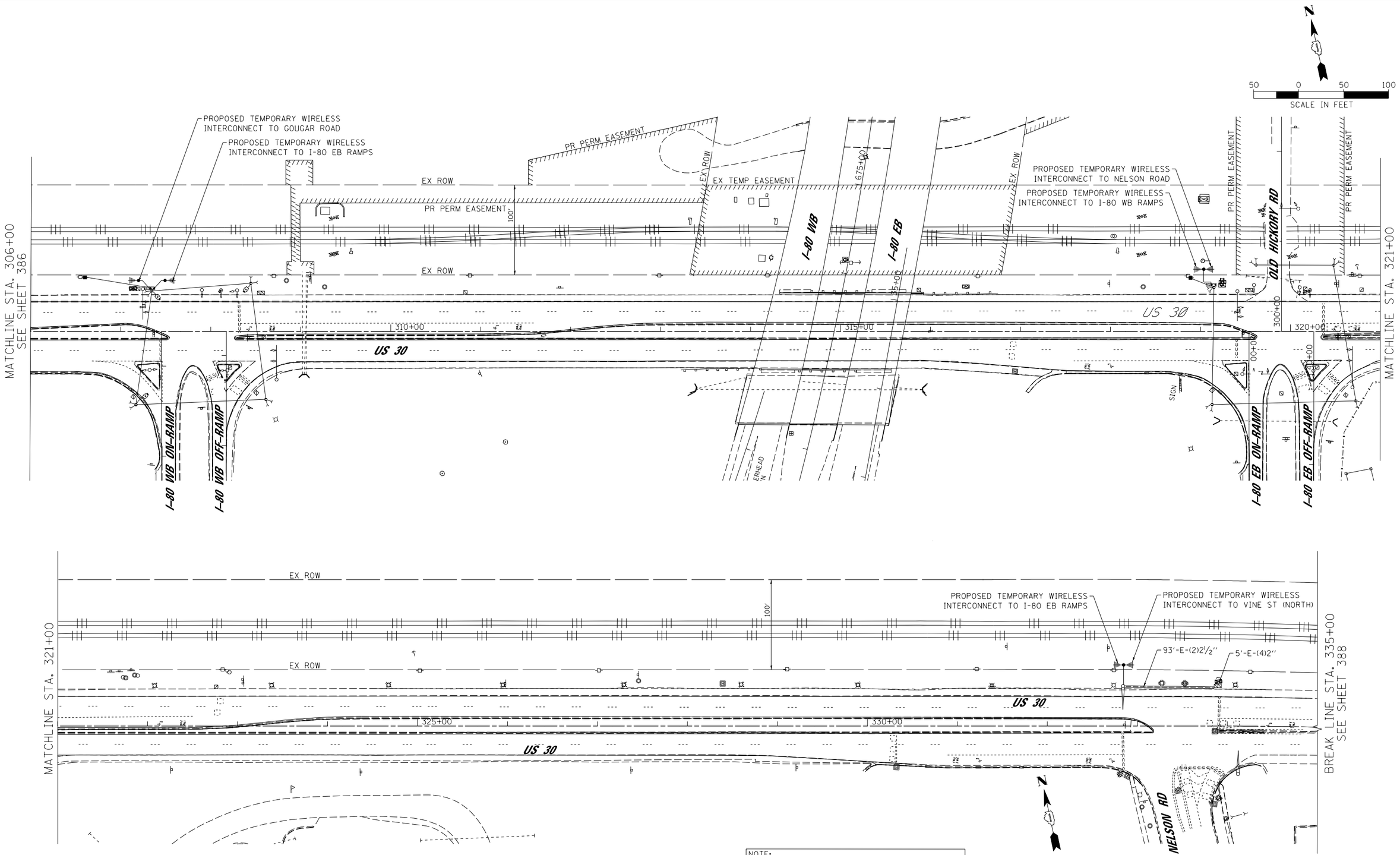
USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 5/9/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY INTERCONNECT PLAN

SCALE: 1"=50' | SHEET NO. 1 OF 2 SHEETS | STA. 306+62 TO STA. 321+52

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	386
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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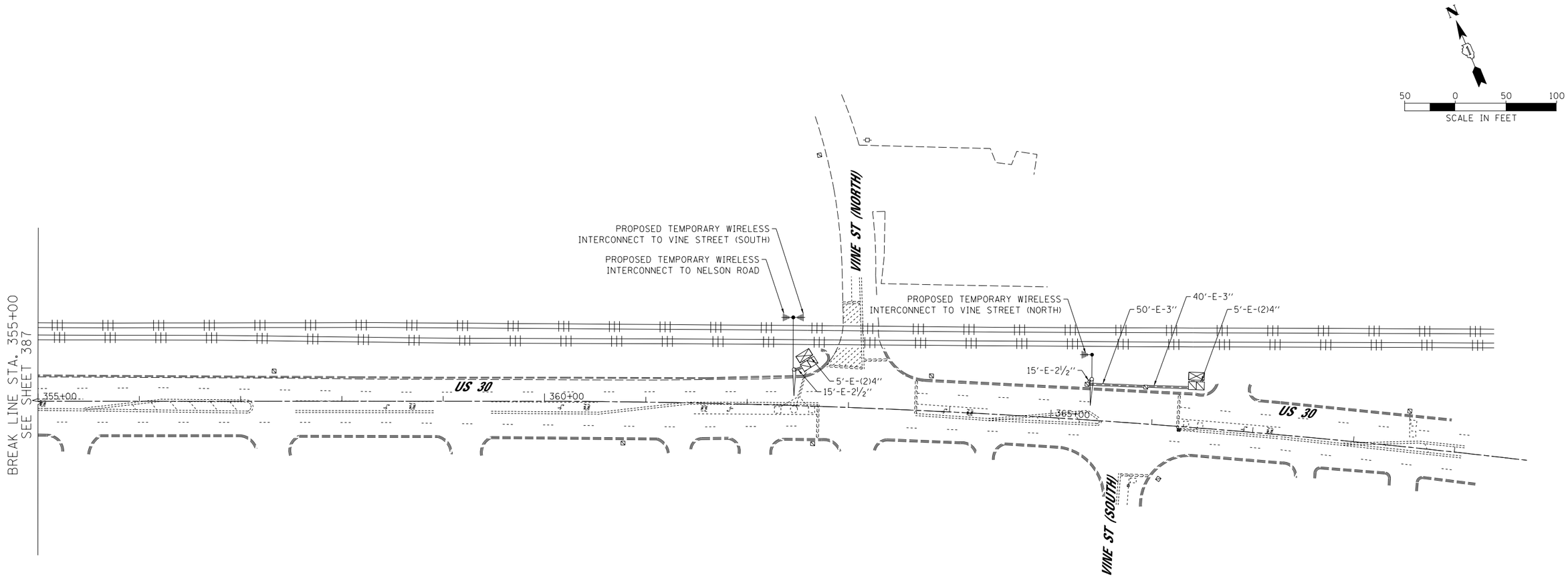
PLOT DATE = 5/9/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY INTERCONNECT PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | STA. 306+62 TO STA. 321+52

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	387
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

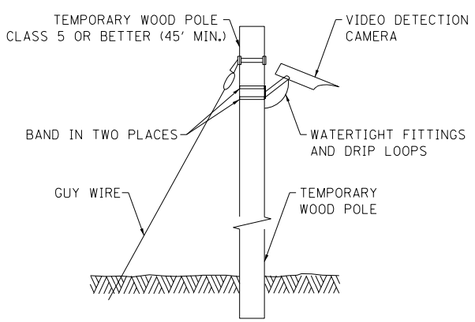
USER NAME = Plotted by lin44	DESIGNED - IS	REVISED -
	DRAWN - IS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - ST	REVISED -
PLOT DATE = 5/9/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY INTERCONNECT PLAN

SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | STA. 306+62 TO STA. 321+52

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	388
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TEMPORARY VIDEO DETECTION
MOUNTING DETAIL

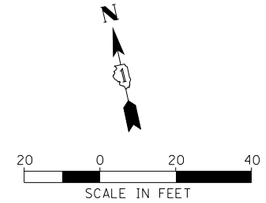
(NOT TO SCALE)

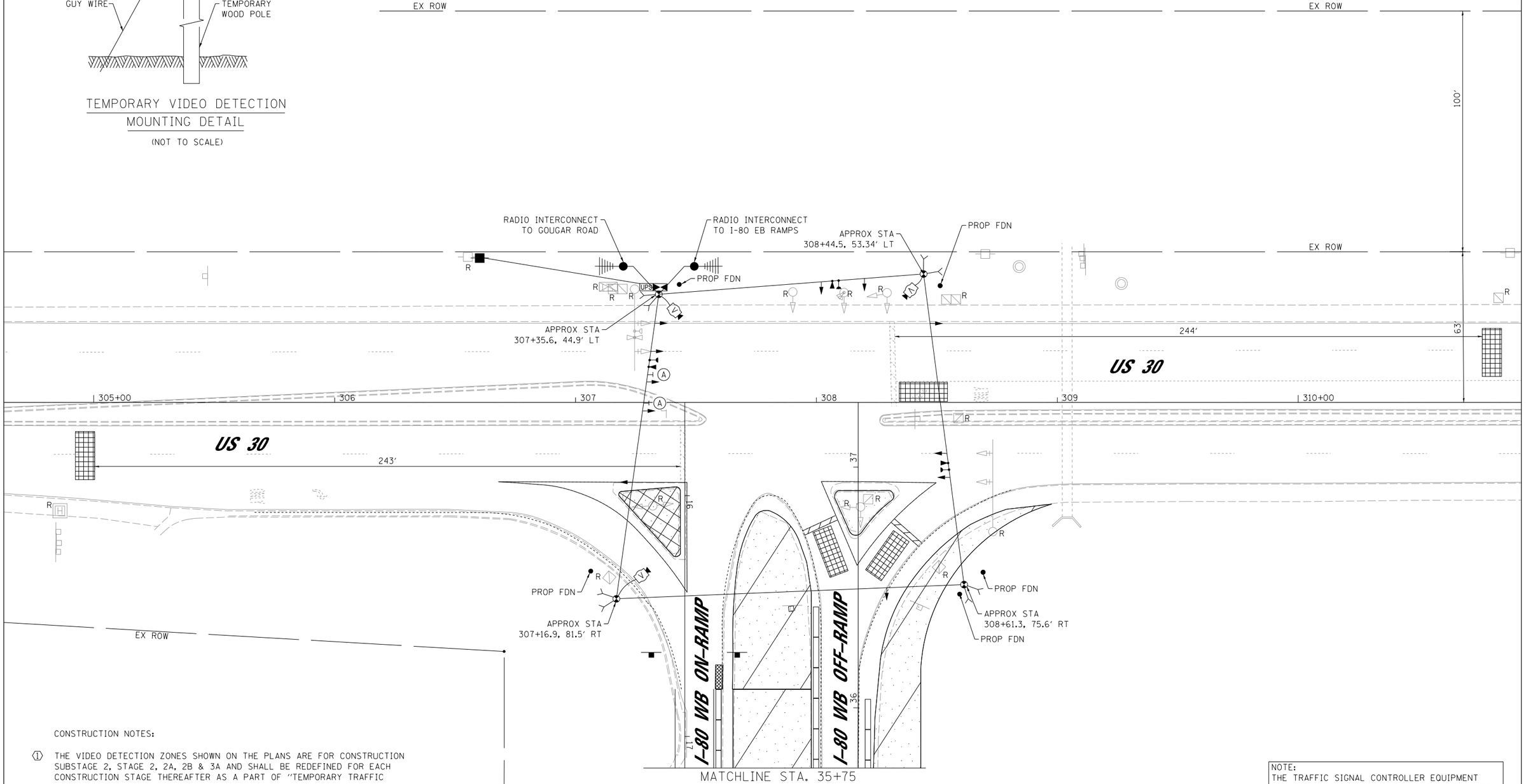
R10-5
30"x36"
(A)

LEGEND

TEMPORARY PAVEMENT

WORK ZONE





CONSTRUCTION NOTES:

① THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION SUBSTAGE 2, STAGE 2, 2A, 2B & 3A AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE THEREAFTER AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

SUBSTAGE 2, STAGE 2, 2A, 2B & 3A

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Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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PLOT DATE = 5/9/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US 30 AT I-80 WEST RAMPS

SCALE: 1"=20' | SHEET NO. 1 OF 4 SHEETS | STA. 304+63 TO STA. 310+93

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	389
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTES:

1. THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION SUBSTAGE 2, STAGE 2, 2A, 2B & 3A AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE THEREAFTER AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
8	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
4	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE
5	EACH	SIGNAL POST
1	EACH	SERVICE INSTALLATION

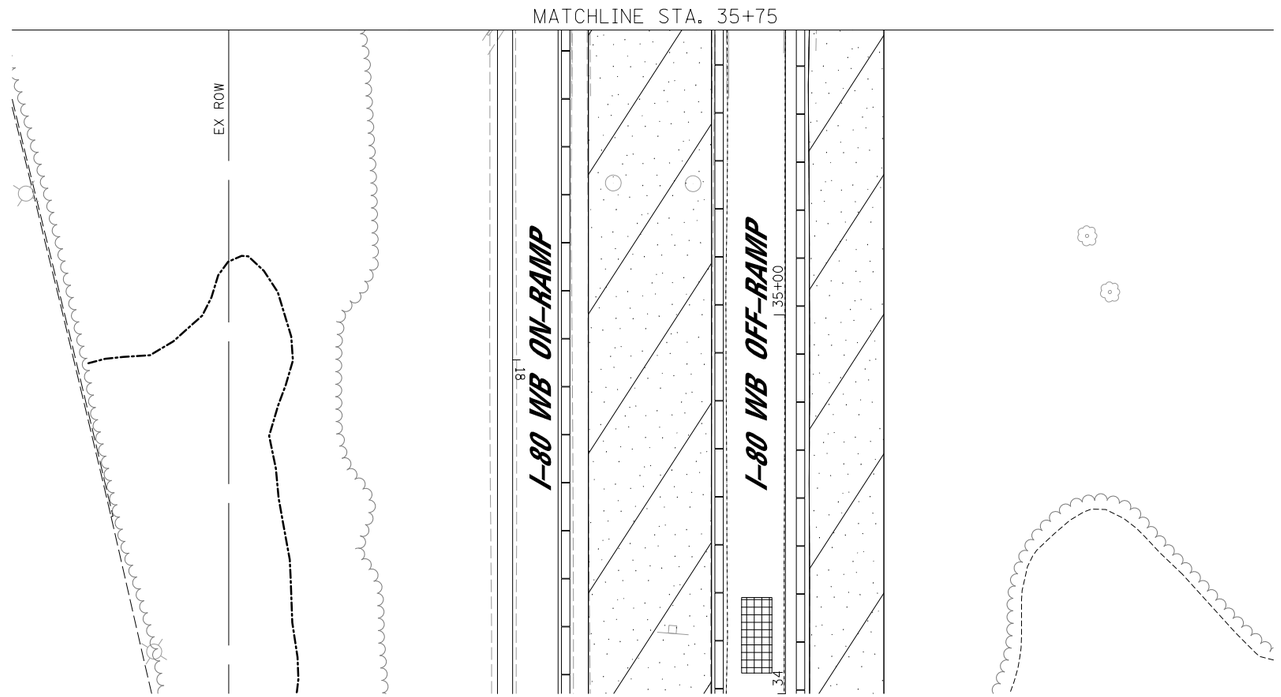
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE A PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

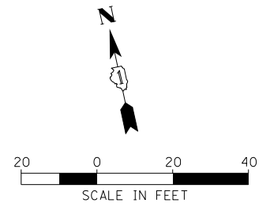
AGENCY: VILLAGE OF NEW LENOX
2401 ELLIS ROAD,
NEW LENOX, IL 60451

CONTACT PERSON: BRIAN WILLIAMS
DIRECTOR OF PUBLIC WORKS

CONTACT NUMBER: (815) 215-4803

2	EACH	EMERGENCY VEHICLE LIGHT DETECTOR
2	EACH	CONFIRMATION BEACON
1	EACH	EMERGENCY VEHICLE LIGHT DETECTOR AMPLIFIER





SUBSTAGE 2, STAGE 2, 2A, 2B & 3A CONT.

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Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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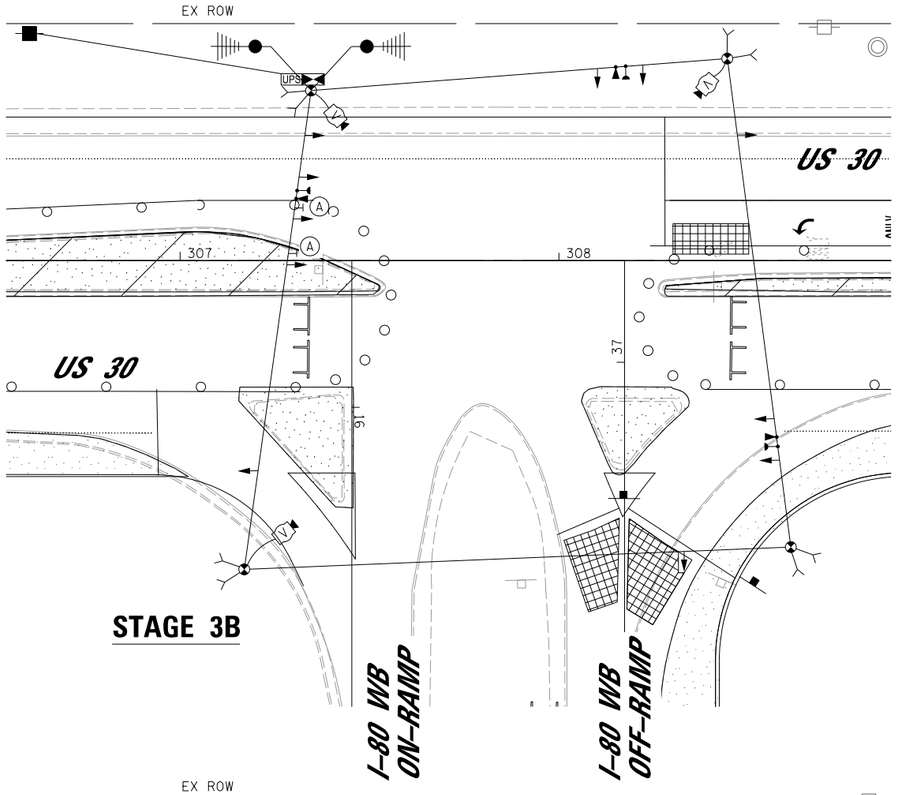
PLOT DATE = 5/9/2018	DATE - 04/2018	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

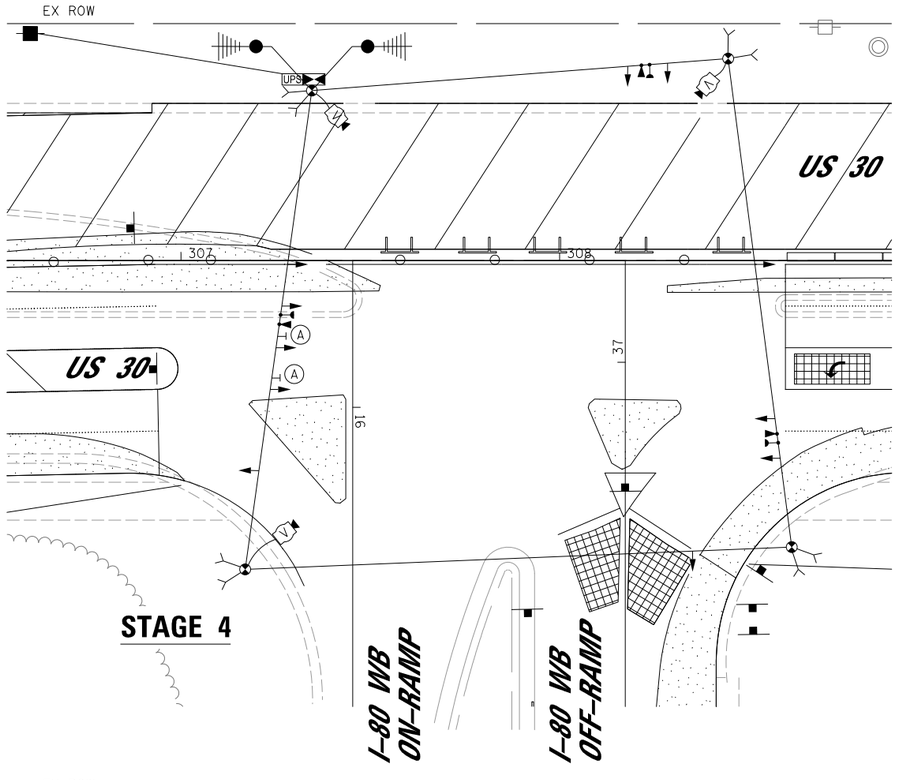
F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
US 30 AT I-80 WEST RAMPS

SCALE: 1"=20' | SHEET NO. 2 OF 4 SHEETS | STA. 35+75 TO STA. 34+00

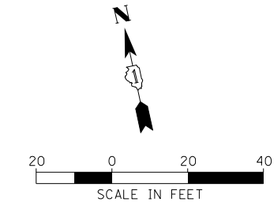
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	390
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



STAGE 3B



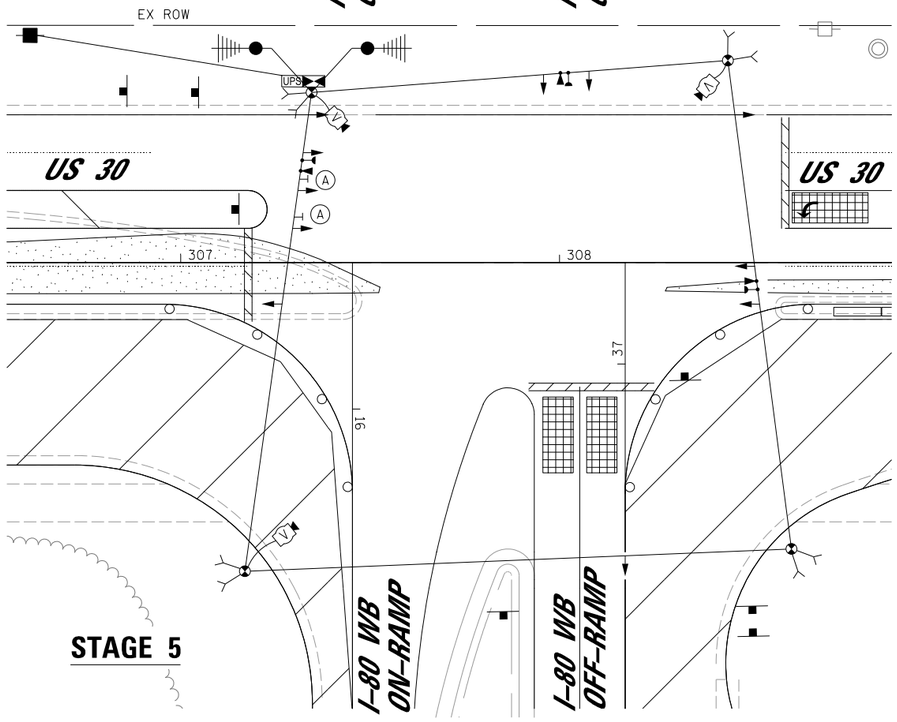
STAGE 4



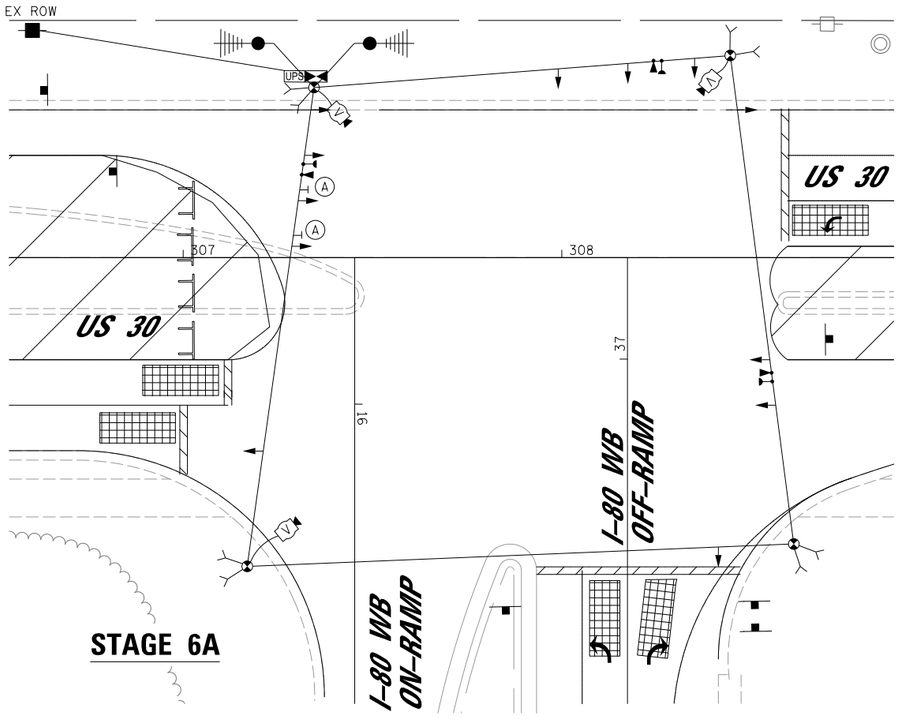
LEGEND

TEMPORARY PAVEMENT

WORK ZONE



STAGE 5



STAGE 6A

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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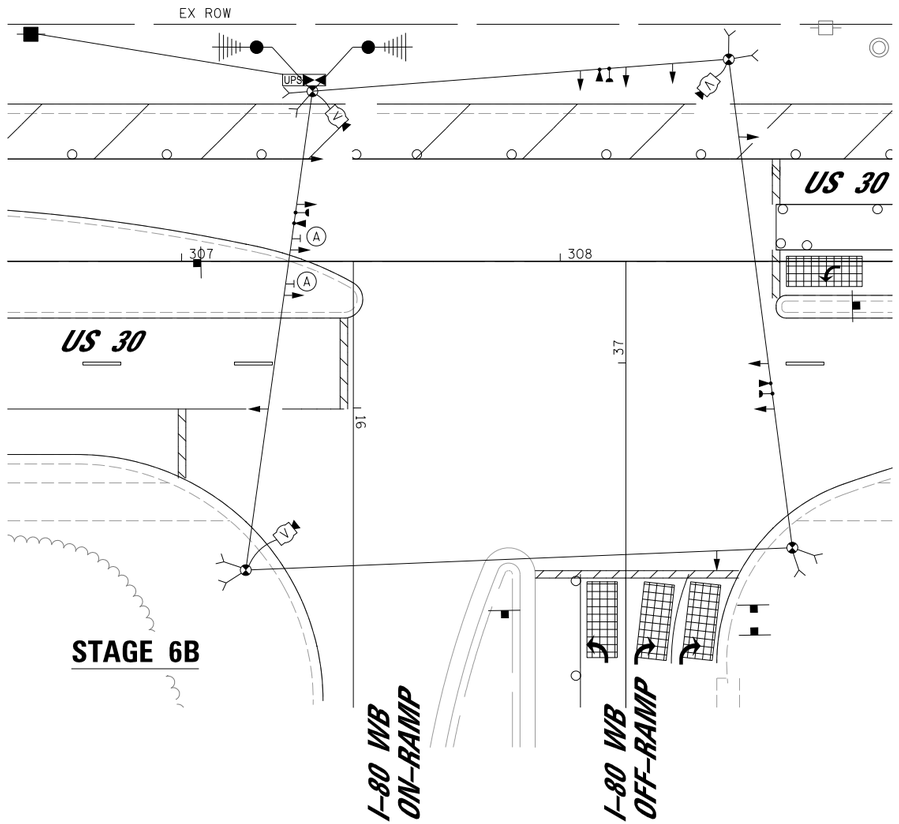
PLOT DATE = 5/9/2018	DATE - 04/2018	REVISED -

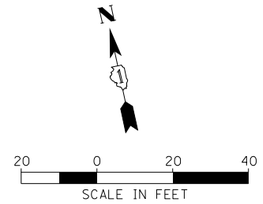
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US 30 AT I-80 WEST RAMPS

SCALE: 1"=20' | SHEET NO. 3 OF 4 SHEETS | STA. 306+54 TO STA. 308+88

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	391
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





R10-5
30''x36''
(A)

LEGEND

WORK ZONE

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

LIN ENGINEERING,LTD.
Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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	DRAWN - IS	REVISED -
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PLOT DATE = 5/9/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US 30 AT I-80 WEST RAMPS

SCALE: 1"=20' | SHEET NO. 4 OF 4 SHEETS | STA. 306+54 TO STA. 308+88

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	392
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

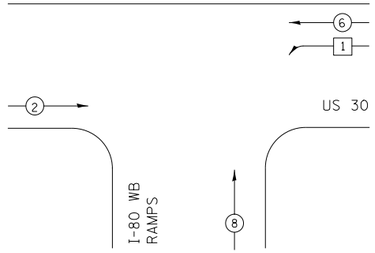
LEGEND

DUAL ENTRY PHASE

SINGLE ENTRY PHASE

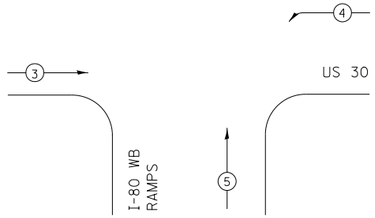
NUMBER REFERS TO ASSOCIATED PHASE

CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE

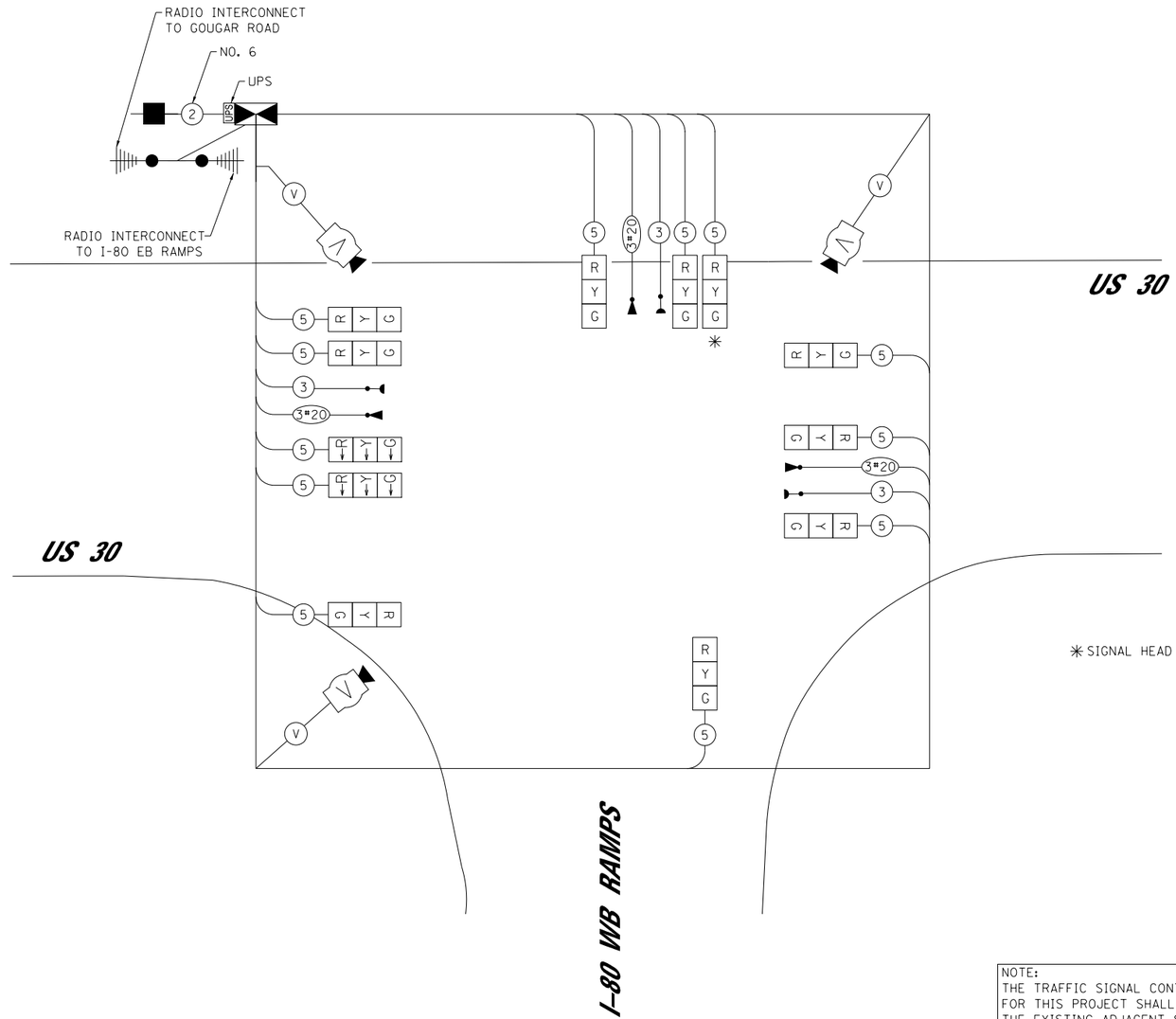


PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑

I.D.O.T
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE LED	× % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	0.50	102
(YELLOW)	12	25	0.25	75
(GREEN)	12	15	0.25	45
PERMISSIVE ARROW	-	12	0.10	-
PED. SIGNAL	-	25	1.00	-
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-		0.05	-
VIDEO SYSTEM	1	150	1.00	150
UPS	1	25	1.00	25
FLASHER	-		0.50	-
ENERGY COSTS TO:			TOTAL =	497.0

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: GREGG TRIEMSTRA
PHONE: 815-724-5534
COMPANY: COMED



✳ SIGNAL HEAD REQUIRED IN STAGES 6A & 6B.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TEMPORARY CABLE PLAN

ALL STAGES

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Consulting Engineers
Chatham, Illinois
Westmont, Illinois

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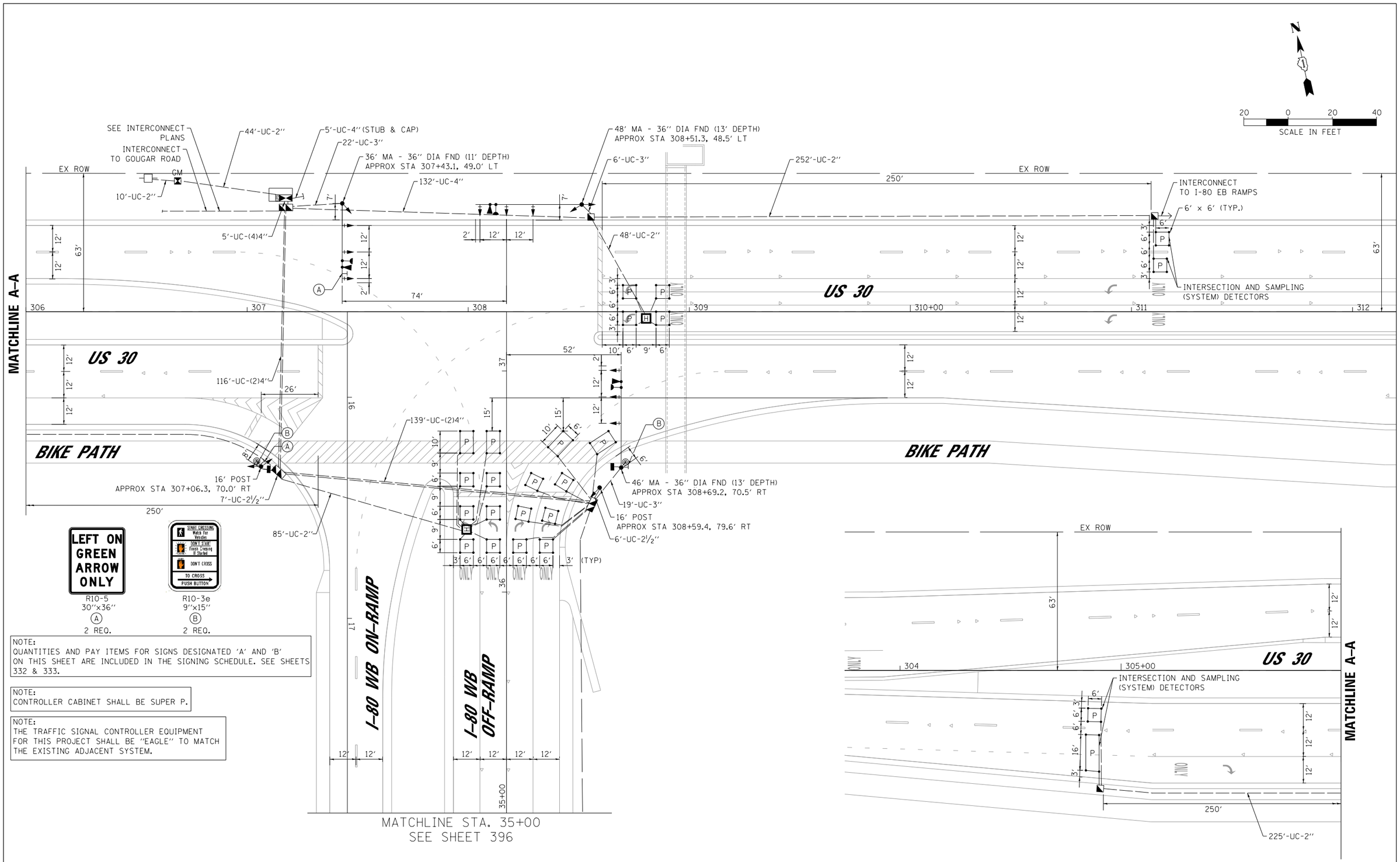
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
US 30 AT I-80 WEST RAMPS

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	393
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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		DRAWN - IS	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - ST	REVISED -
	PLOT DATE = 5/9/2018	DATE - 04/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TRAFFIC SIGNAL MODERNIZATION PLAN
US 30 AT I–80 WEST RAMPS

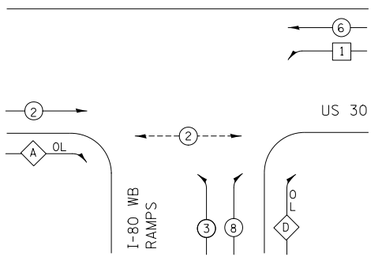
SCALE: 1''=20' | SHEET NO. 1 OF 1 SHEETS | STA. 304+63 TO STA. 311+74

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	394
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- * — NUMBER REFERS TO ASSOCIATED PHASE

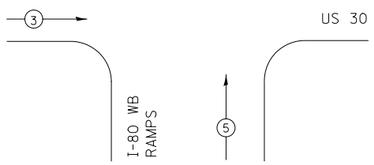
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE

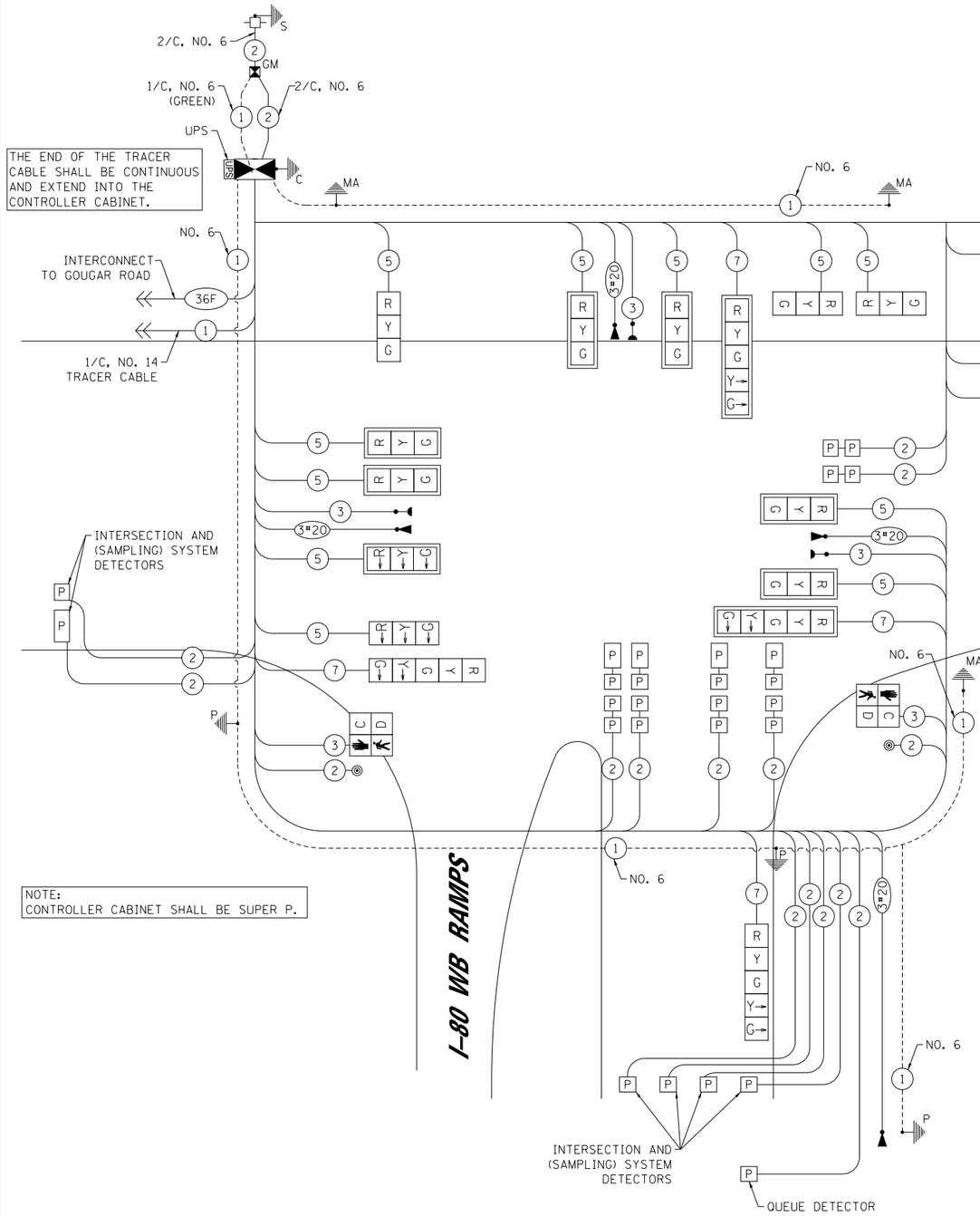


PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↑

I.D.O.T
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE LED	× % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	15	17	0.50	127.5
(YELLOW)	15	25	0.25	93.8
(GREEN)	15	15	0.25	56.3
PERMISSIVE ARROW	8	12	0.10	9.6
PED. SIGNAL	2	25	1.00	50
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-		0.05	-
VIDEO SYSTEM	-	150	1.00	-
UPS	1	25	1.00	25
FLASHER	-		0.50	-
ENERGY COSTS TO:			TOTAL =	462.2

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY: CONTACT: GREGG TRIEMSTRA
PHONE: 815-724-5534
COMPANY: COMED



NOTE:
CONTROLLER CABINET SHALL BE SUPER P.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CABLE PLAN

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	7.5	1	ZZ	1

SCHEDULE OF QUANTITIES

CODE NO.	DESCRIPTION	UNIT	QUANTITY
72000100	SIGN PANEL - TYPE 1	SQ FT	7.5
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	697
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	682
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	47
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	667
81400100	HANDHOLE	EACH	5
81400200	HEAVY-DUTY HANDHOLE	EACH	2
81400300	DOUBLE HANDHOLE	EACH	3
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	497
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1230
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2086
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1074
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	6755
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	71
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	905
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	2
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT.	EACH	1
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED W/ CD TIMER	EACH	2
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
88500100	INDUCTIVE LOOP DETECTOR	EACH	15
88600700	PREFORMED DETECTOR LOOP	FOOT	1288
88700200	LIGHT DETECTOR	EACH	4
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1
88800100	PEDESTRIAN PUSH-BUTTON	EACH	2
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502380	REMOVE EXISTING HANDHOLE	EACH	6
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1765
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

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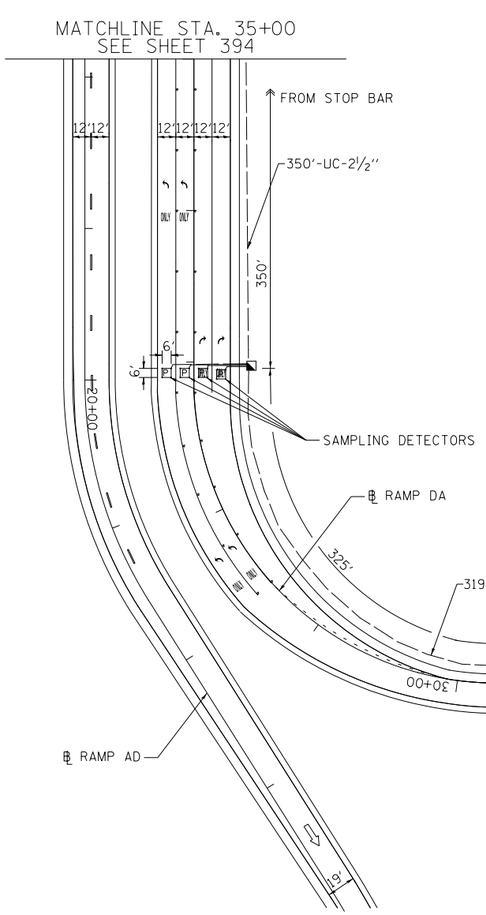
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

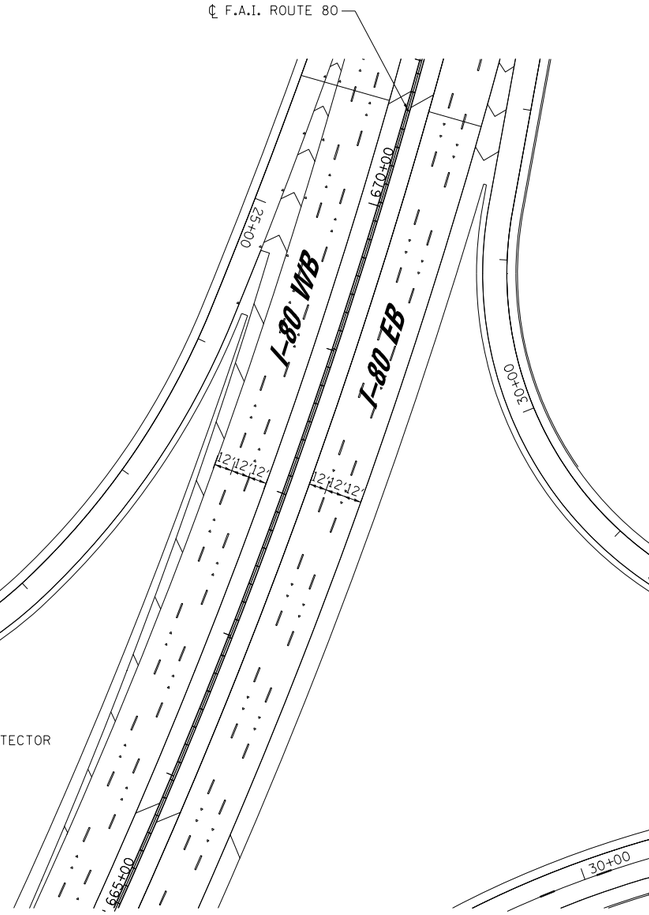
F.A.I. 80 / US 30 INTERCHANGE
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US 30 AT I-80 WEST RAMPS

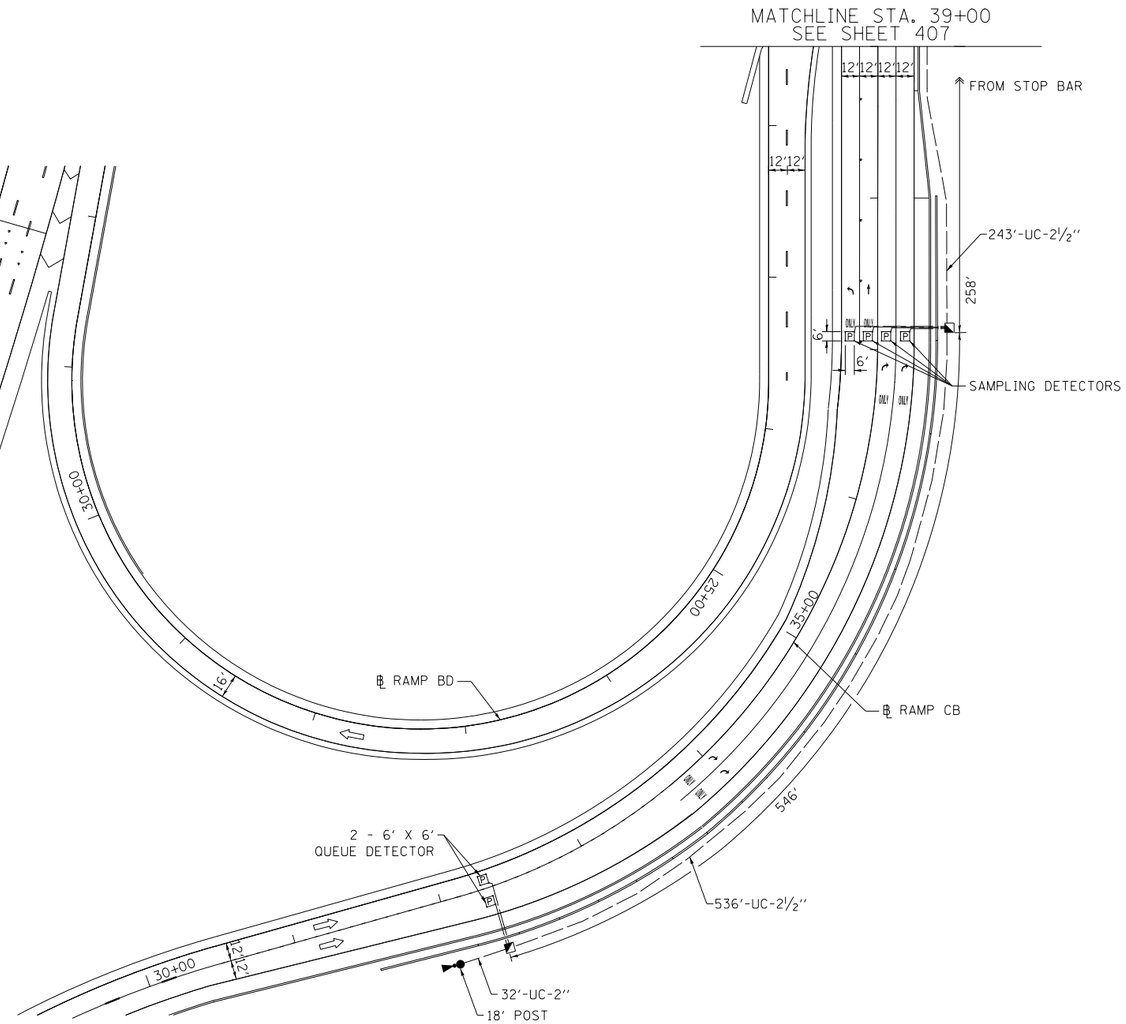
SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

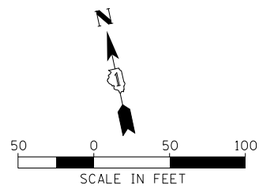
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	395
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SEE TRAFFIC SIGNAL MODERNIZATION SHEETS FOR INTERSECTION CALLOUTS.









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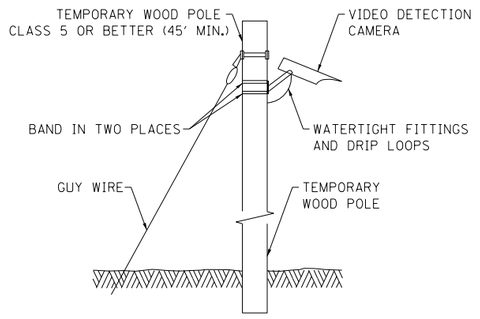
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TRAFFIC SIGNAL MODERNIZATION PLAN
US 30 AT I-80 RAMPS & OLD HICKORY ROAD

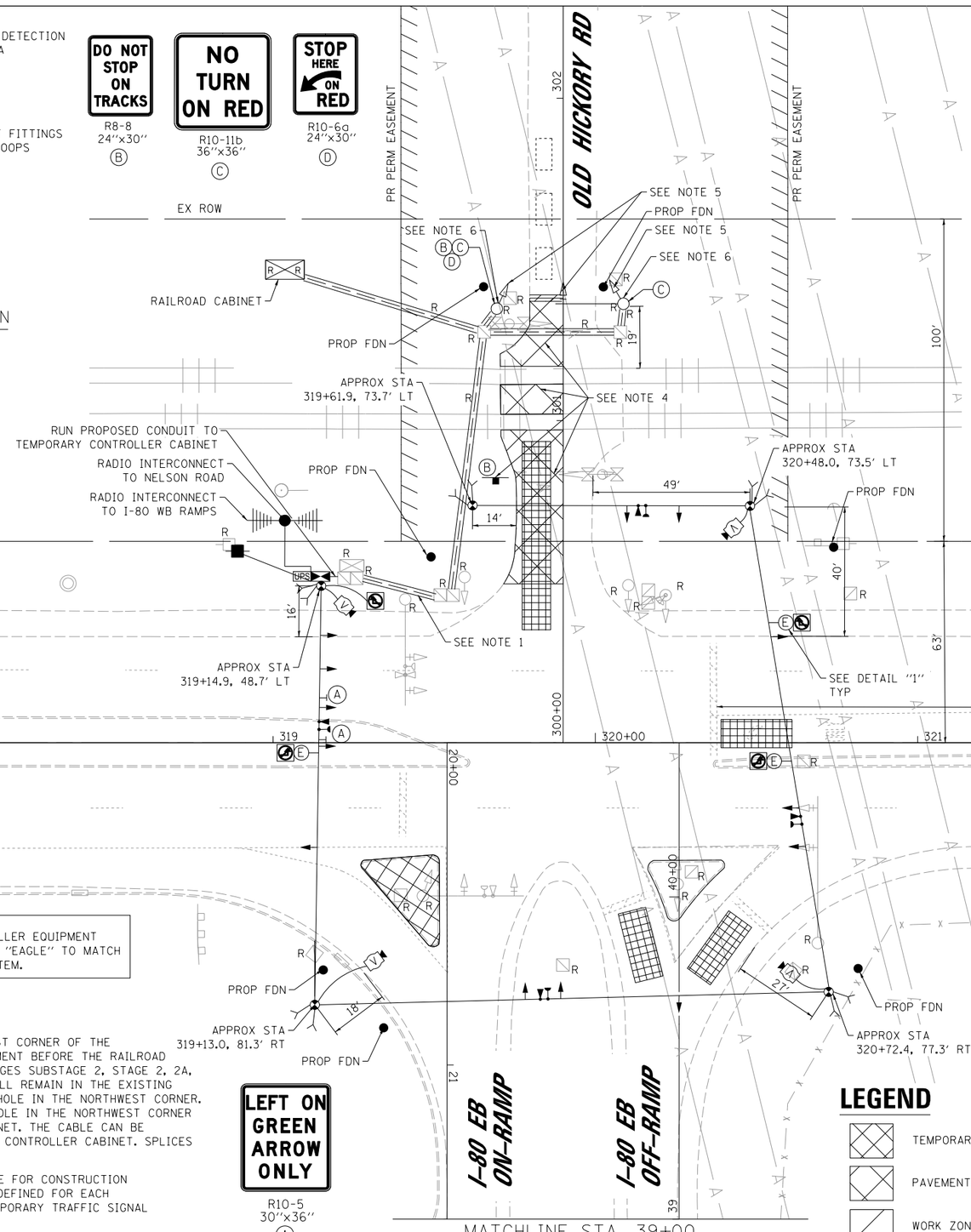
SCALE: 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

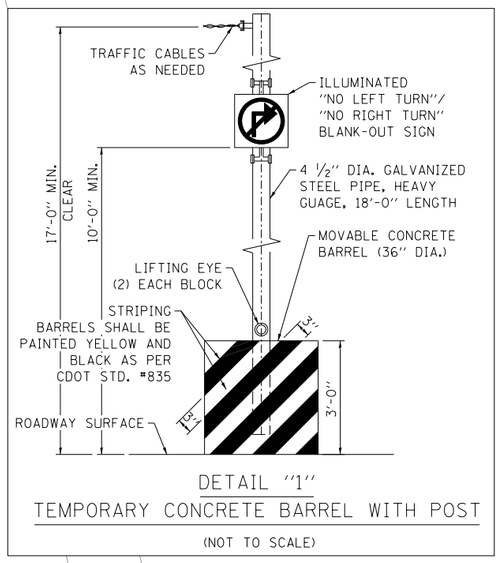
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	396
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TEMPORARY VIDEO DETECTION
MOUNTING DETAIL

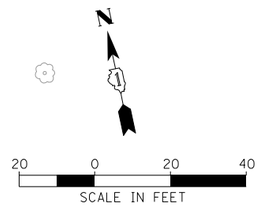
(NOT TO SCALE)





DETAIL "1"
TEMPORARY CONCRETE BARREL WITH POST

(NOT TO SCALE)



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

CONSTRUCTION NOTES:

1. USE THE EXISTING DOUBLE HANDHOLE IN THE NORTHWEST CORNER OF THE INTERSECTION, EXISTING CONDUITS, PRE-SIGNAL EQUIPMENT BEFORE THE RAILROAD TRACKS AND EXISTING PRE-SIGNAL DETECTION FOR STAGES SUBSTAGE 2, STAGE 2, 2A, 2B, 3A AND 3B. THE EXISTING PRE-SIGNAL CABLES SHALL REMAIN IN THE EXISTING CONDUIT ALL THE WAY TO THE EXISTING DOUBLE HANDHOLE IN THE NORTHWEST CORNER. RUN PROPOSED CONDUIT FROM EXISTING DOUBLE HANDHOLE IN THE NORTHWEST CORNER TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER CABINET. THE CABLE CAN BE EXTENDED (SPLICED) TO REACH THE TEMPORARY SIGNAL CONTROLLER CABINET. SPLICES ARE ONLY ALLOWED FOR THE TEMPORARY EQUIPMENT.
2. THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION SUBSTAGE 2, STAGE 2, 2A, 2B & 3A AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE THEREAFTER AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.
3. TEMPORARY SIGNAL HEADS LOCATED ON THE EAST, WEST AND NORTH LEGS OF THE INTERSECTION SHALL BE MOUNTED HORIZONTALLY FOR ALL STAGES.

CONSTRUCTION NOTES CONTINUED:

4. FOR RAILROAD CROSSING SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT, SEE DISTRICT STANDARD TC-23. ALL SIGNS PERTAINING TO RAILROAD CROSSING SHALL BE PLACED AS PER TC-23 DURING ALL STAGES OF CONSTRUCTION. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK AND THE COST SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
5. THE EXISTING PRE-SIGNALS FOR OLD HICKORY ROAD SHOWN ON THIS SHEET SHALL BE USED IN SUBSTAGE 2, STAGES 2, 2A, 2B, 3A & 3B AND SHALL NOT BE REMOVED UNTIL STAGE 4.
6. THE EXISTING PRE-SIGNAL SIGNS FOR OLD HICKORY ROAD SHOWN ON THIS SHEET SHALL BE MAINTAINED AT ALL TIMES DURING SUBSTAGE 2, STAGES 2, 2A, 2B, 3A & 3B AND SHALL NOT BE REMOVED UNTIL STAGE 4.
7. WHEN GRADE CROSSINGS EXIST EITHER WITHIN OR IN THE VICINITY OF A TTC ZONE, LANE RESTRICTIONS, FLAGGING, OR OTHER OPERATIONS SHALL NOT CREATE CONDITIONS WHERE VEHICLES CAN BE QUEUED ACROSS THE TRACKS. IF THE QUEUING OF VEHICLES ACROSS THE TRACKS CANNOT BE AVOIDED, A UNIFORMED LAW ENFORCEMENT OFFICER OR FLAGGER SHALL BE PROVIDED AT THE CROSSING TO PREVENT VEHICLES FROM STOPPING ON THE TRACKS, EVEN IF AUTOMATIC WARNING DEVICES ARE IN PLACE.

LEGEND

- TEMPORARY PAVEMENT
- PAVEMENT MARKING
- WORK ZONE
- (E) MOVABLE TEMPORARY CONCRETE BARREL WITH POST FOR "NO LEFT TURN"/"NO RIGHT TURN" ILLUMINATED BLANK-OUT SIGN

SUBSTAGE 2, STAGE 2, 2A, 2B & 3A

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US 30 AT I-80 EAST RAMPS / OLD HICKORY ROAD

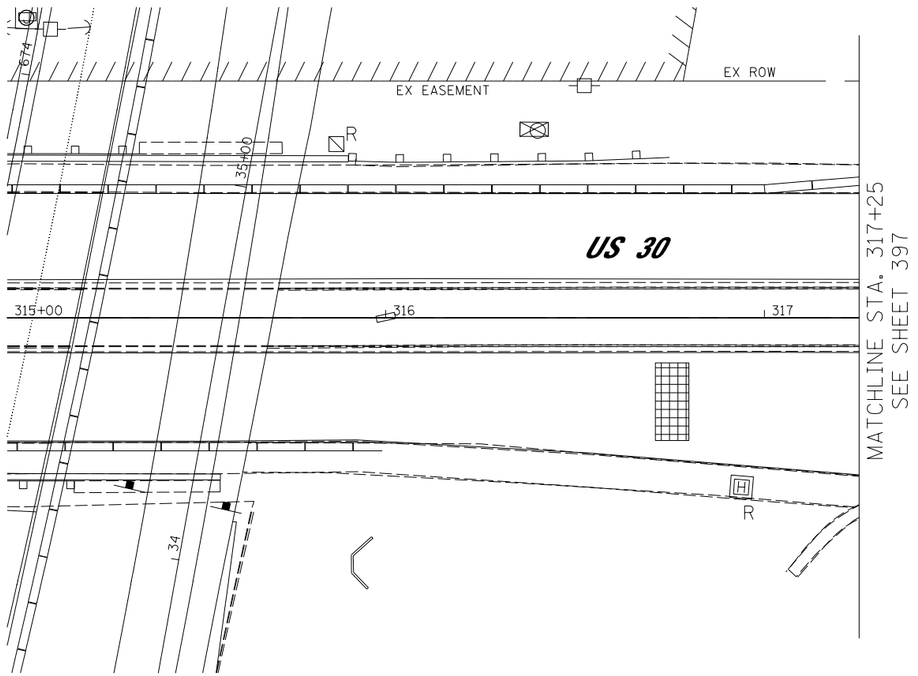
SCALE: 1"=20' | SHEET NO. 1 OF 5 SHEETS | STA. 317+75 TO STA. 323+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	397
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

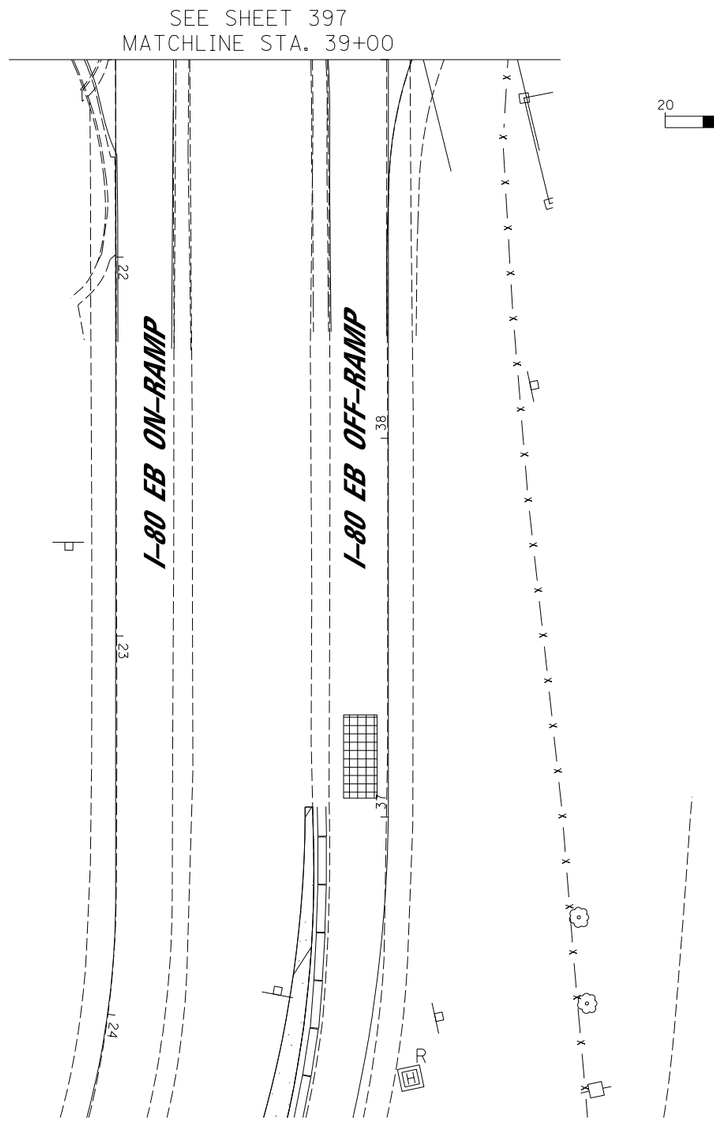
NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

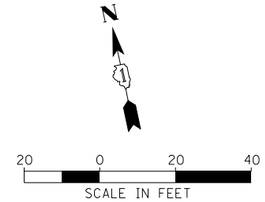
CONSTRUCTION NOTES:

① THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR CONSTRUCTION SUBSTAGE 2, STAGE 2, 2A, 2B & 3A AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE THEREAFTER AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



SUBSTAGE 2, STAGE 2, 2A, 2B & 3A CONT.





SUBSTAGE 2, STAGE 2, 2A, 2B & 3A CONT.

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH CONTROLLER AND CABINET (COMPLETE)
10 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
4 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
4 EACH STEEL MAST ARM ASSEMBLY AND POLE
5 EACH SIGNAL POST
1 EACH SERVICE INSTALLATION

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE A PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF NEW LENOX
2401 ELLIS ROAD,
NEW LENOX, IL 60451

CONTACT PERSON: BRIAN WILLIAMS
DIRECTOR OF PUBLIC WORKS

CONTACT NUMBER: (815) 215-4803

3 EACH EMERGENCY VEHICLE LIGHT DETECTOR
3 EACH CONFIRMATION BEACON
1 EACH EMERGENCY VEHICLE LIGHT DETECTOR AMPLIFIER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US 30 AT I-80 EAST RAMPS /OLD HICKORY ROAD

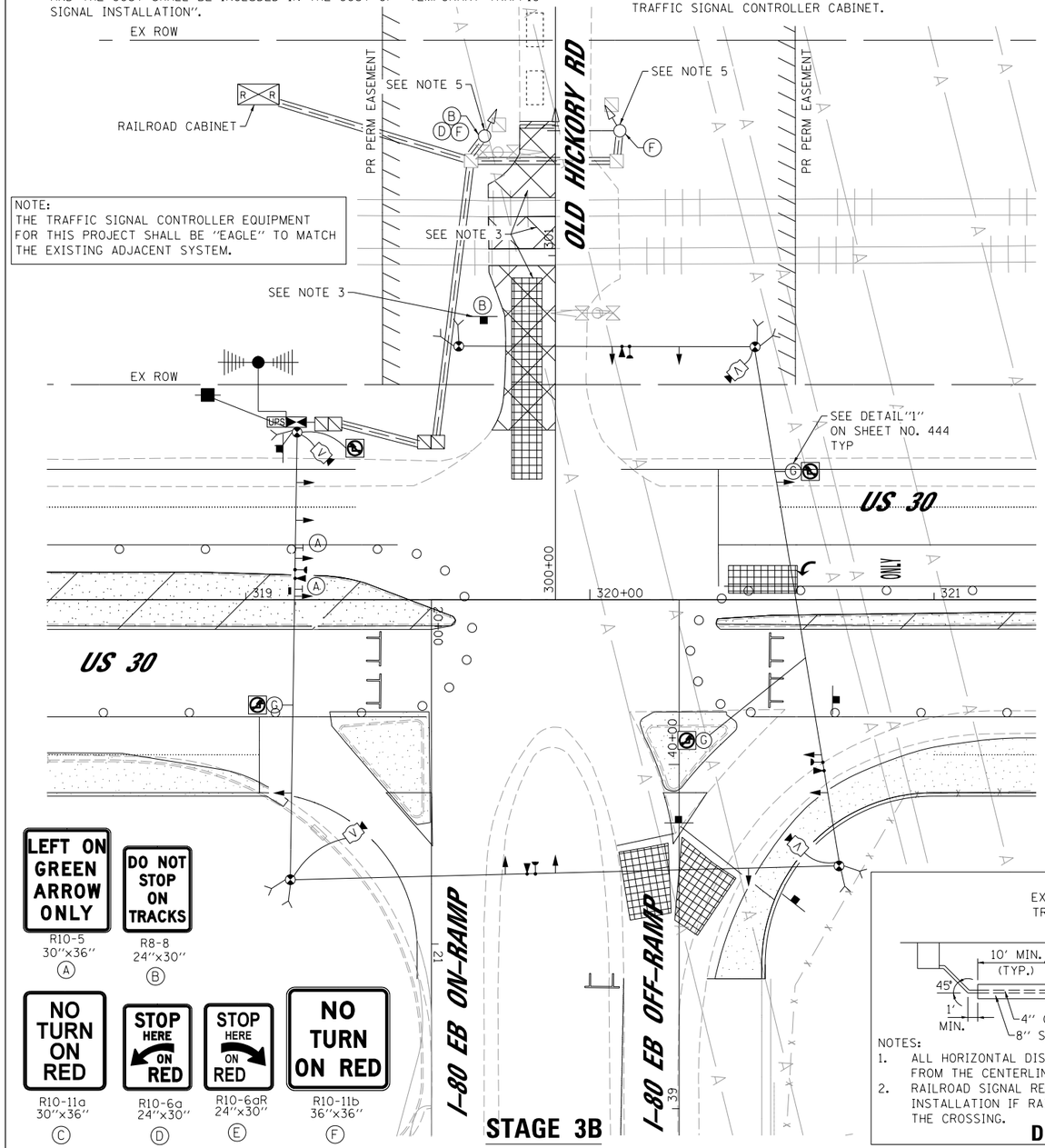
SCALE: 1"=20' | SHEET NO. 2 OF 5 SHEETS | STA. 315+00 TO STA. 317+25

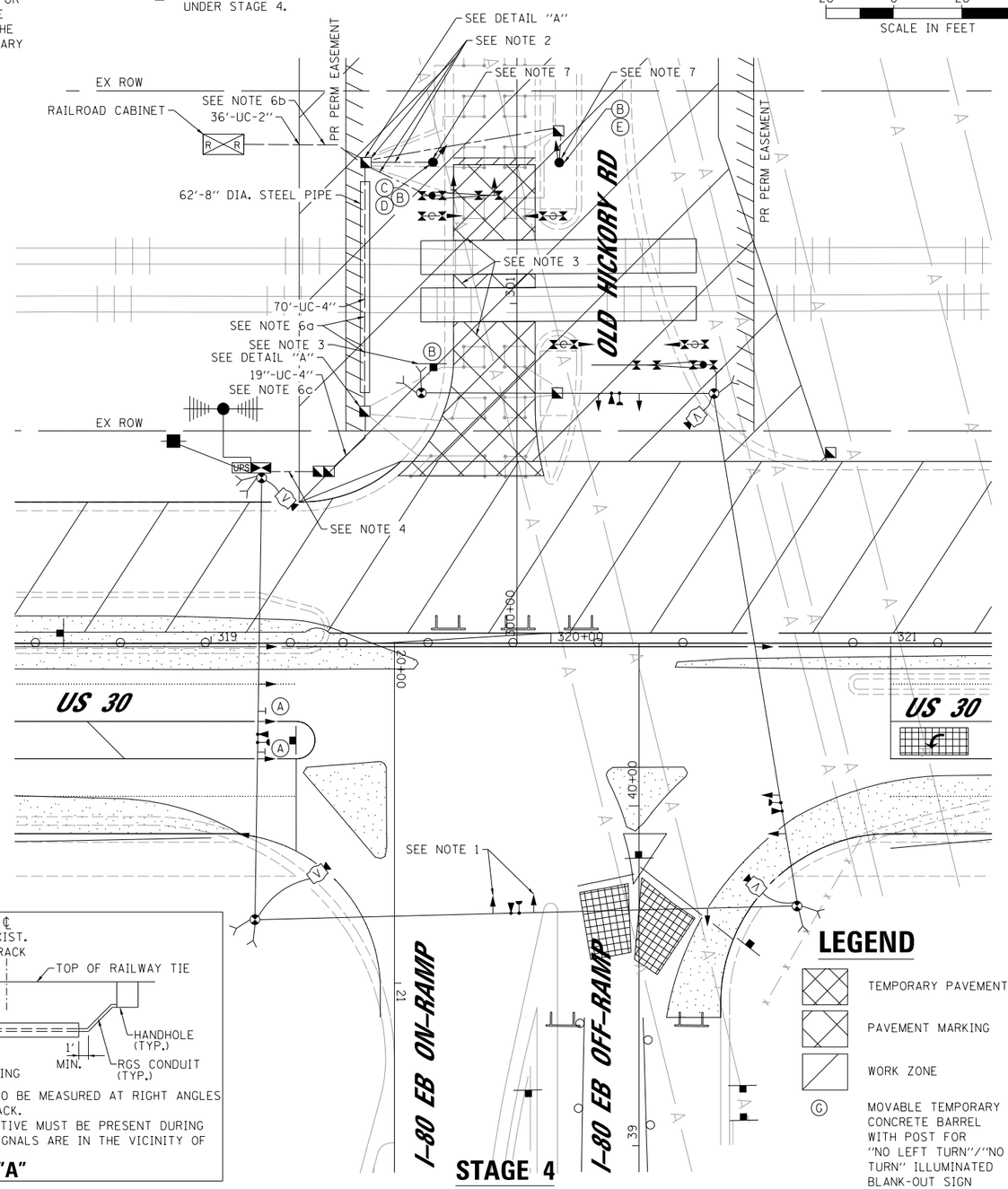
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	398
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

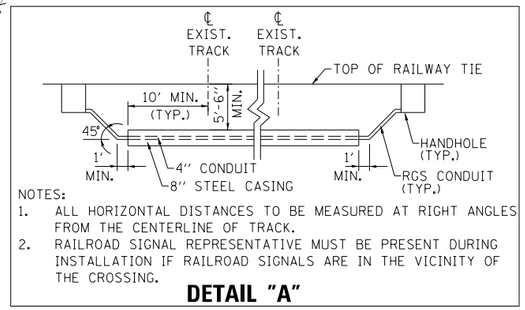
CONSTRUCTION NOTES:

1. THESE SIGNALS SHALL BE DEACTIVATED AND BAGGED DURING STAGE 4. THE TRAFFIC SIGNALS SHALL BE UNBAGGED AND ACTIVATED AT THE END OF STAGE 4 CONSTRUCTION AFTER THE COMPLETION OF OLD HICKORY ROAD AND BEFORE STAGE 5.
2. INSTALL THE PROPOSED CONDUIT AND SIGNAL EQUIPMENT. COORDINATE WITH FINAL DESIGN.
3. FOR RAILROAD CROSSING SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT, SEE DISTRICT STANDARD TC-23. ALL SIGNS PERTAINING TO RAILROAD CROSSING SHALL BE PLACED AS PER TC-23 DURING ALL STAGES OF CONSTRUCTION. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK AND THE COST SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
4. RUN 4" CONDUIT BETWEEN PROPOSED DOUBLE HANDHOLE AND TEMPORARY TRAFFIC SIGNAL CONTROLLER FOR CONNECTION BETWEEN PRE-SIGNAL/RAILROAD CABLES AND TEMPORARY TRAFFIC SIGNAL CONTROLLER.
5. THE EXISTING PRE-SIGNAL SIGNS FOR OLD HICKORY ROAD SHOWN ON THIS SHEET SHALL BE MAINTAINED AT ALL TIMES DURING SUBSTAGE 2, STAGES 2, 2A, 2B, 3A & 3B AND SHALL NOT BE REMOVED UNTIL STAGE 4.
6. DURING STAGE 4 CLOSURE OF OLD HICKORY ROAD:
   a. INSTALL TRAFFIC CABLES IN 4" CONDUIT UNDER THE RAILROAD GRADE AT A DEPTH OF MIN. 5'-6" ENCASED IN 8" STEEL PIPE, SEE DETAIL 'A'.
   b. INSTALL 2" CONDUIT FROM PROPOSED HANDHOLE TO RAILROAD CABINET FOR CABLES GOING TO RAILROAD CABINET. NO SPLICING IS ALLOWED FOR THE RAILROAD INTERCONNECT CABLE. A NEW CABLE SHALL BE PROVIDED IF THE EXISTING CABLE IS NOT LONG ENOUGH TO REACH THE PROPOSED/TEMPORARY TRAFFIC SIGNAL CONTROLLER CABINET.
   c. INSTALL 4" CONDUIT FROM PROPOSED HANDHOLE TO PROPOSED DOUBLE HANDHOLE.
   d. REMOVE THE EXISTING TRAFFIC SIGNAL EQUIPMENT FOR THE PRE-SIGNALS AND RELATED HANDHOLES AND CONDUITS. INSTALL NEW PRE-SIGNAL TRAFFIC SIGNAL EQUIPMENT, INCLUDING ROADWAY DETECTION, HANDHOLES AND CONDUIT RUNS TO THE CONTROLLER CABINET DOUBLE HANDHOLE. RUN CONDUIT FROM THE PROPOSED DOUBLE HANDHOLE TO THE TEMPORARY CONTROLLER CABINET AND RUN ELECTRIC CABLE TO THE TEMPORARY CONTROLLER CABINET. USE THIS SET-UP FOR STAGES 5, 6A AND 6B UNTIL THE PROPOSED TRAFFIC SIGNALS ARE READY FOR A TURN-ON.
7. NEW SIGNS SHALL BE MOUNTED TO THE PROPOSED PRE-SIGNAL TRAFFIC POSTS UNDER STAGE 4.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.







NOTES:
1. ALL HORIZONTAL DISTANCES TO BE MEASURED AT RIGHT ANGLES FROM THE CENTERLINE OF TRACK.
2. RAILROAD SIGNAL REPRESENTATIVE MUST BE PRESENT DURING INSTALLATION IF RAILROAD SIGNALS ARE IN THE VICINITY OF THE CROSSING.

DETAIL "A"

LEGEND

- TEMPORARY PAVEMENT
- PAVEMENT MARKING
- WORK ZONE
- (G) MOVABLE TEMPORARY CONCRETE BARREL WITH POST FOR "NO LEFT TURN"/"NO RIGHT TURN" ILLUMINATED BLANK-OUT SIGN

N

20 0 20 40
SCALE IN FEET

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Westmont, Illinois

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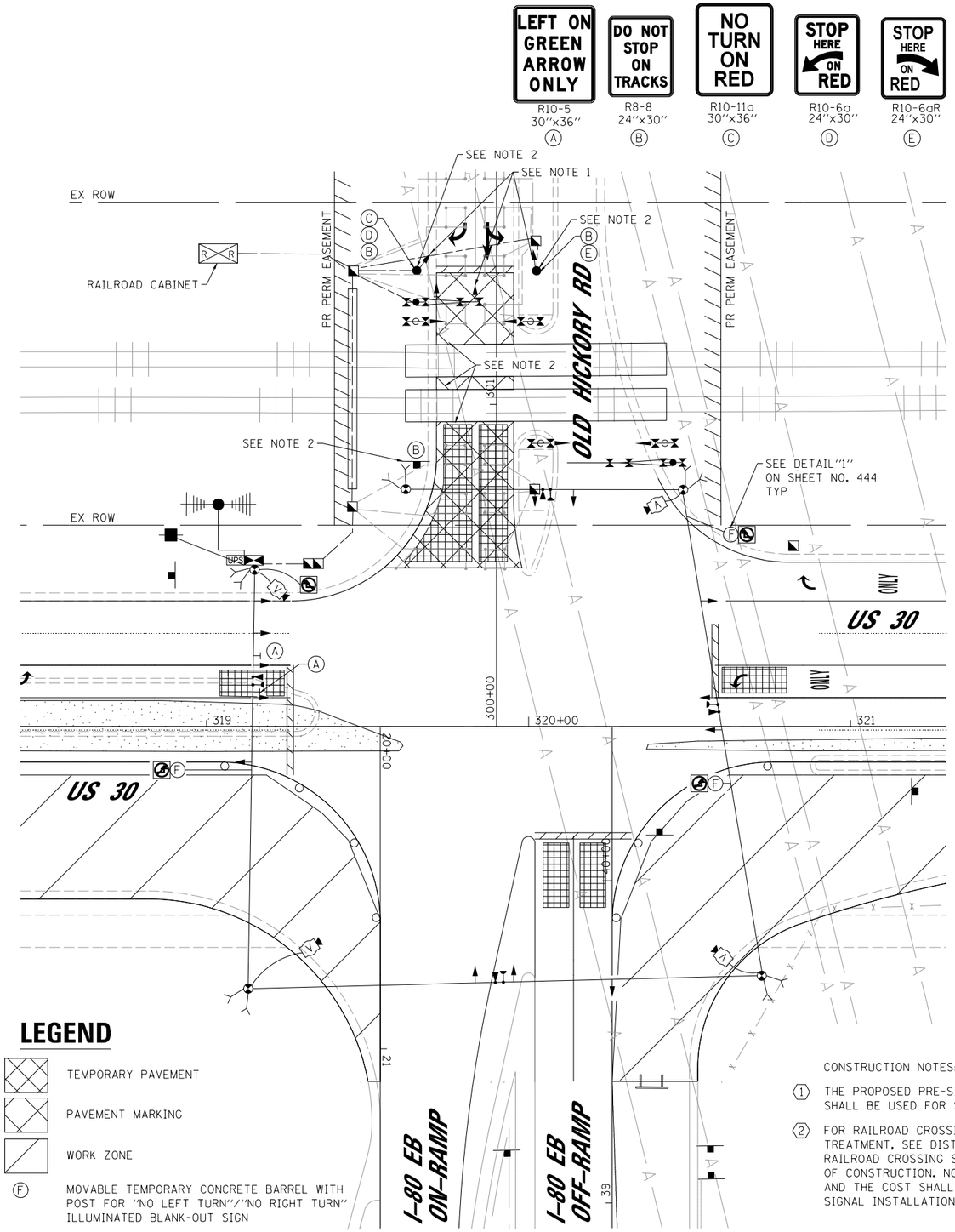
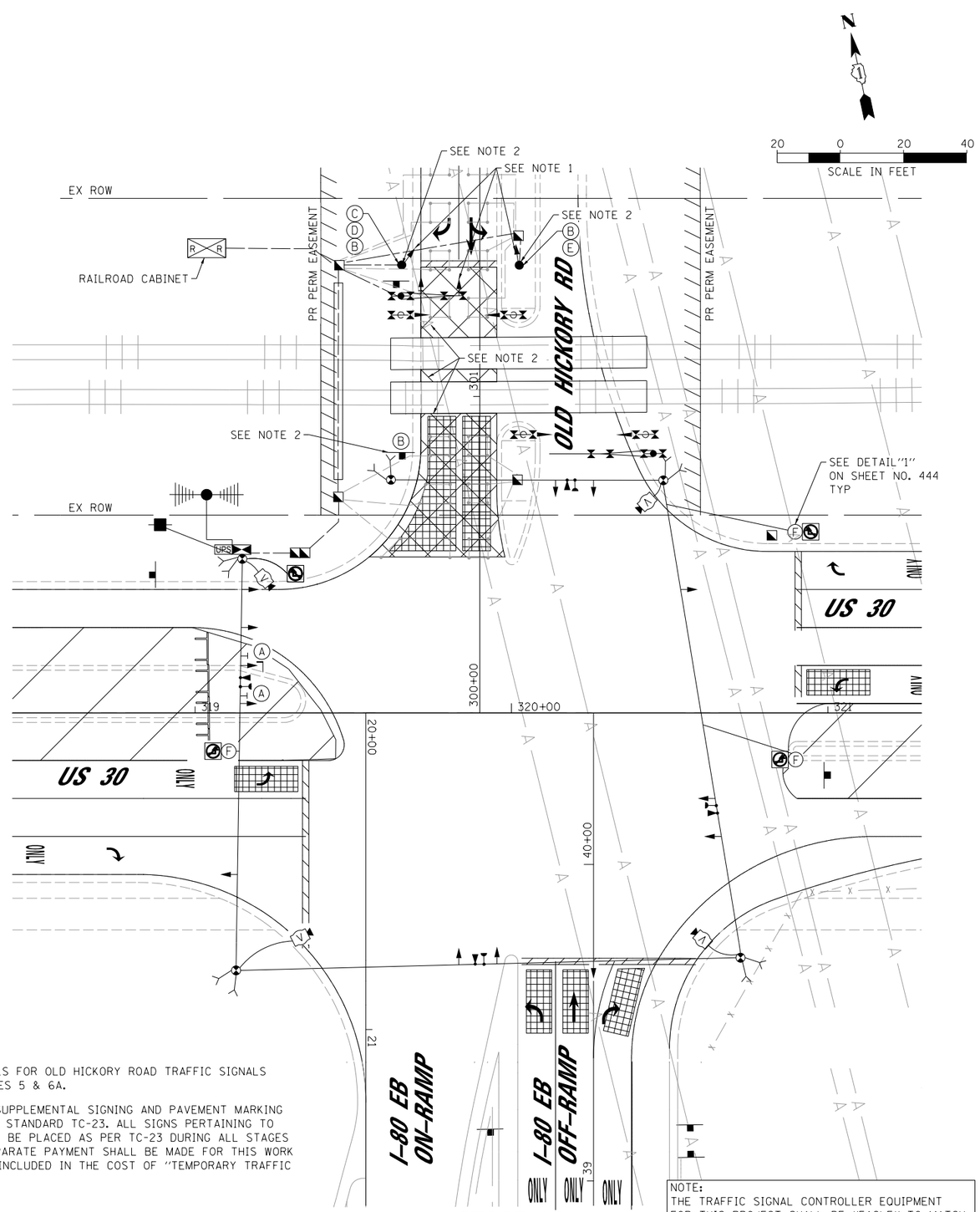
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US 30 AT I-80 EAST RAMPS / OLD HICKORY ROAD

SCALE: 1"=20' | SHEET NO. 3 OF 5 SHEETS | STA. 318+42 TO STA. 321+30

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	399
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





LEGEND

- TEMPORARY PAVEMENT
- PAVEMENT MARKING
- WORK ZONE
- (F) MOVABLE TEMPORARY CONCRETE BARREL WITH POST FOR "NO LEFT TURN"/"NO RIGHT TURN" ILLUMINATED BLANK-OUT SIGN

CONSTRUCTION NOTES:

(1) THE PROPOSED PRE-SIGNALS FOR OLD HICKORY ROAD TRAFFIC SIGNALS SHALL BE USED FOR STAGES 5 & 6A.

(2) FOR RAILROAD CROSSING SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT, SEE DISTRICT STANDARD TC-23. ALL SIGNS PERTAINING TO RAILROAD CROSSING SHALL BE PLACED AS PER TC-23 DURING ALL STAGES OF CONSTRUCTION. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK AND THE COST SHALL BE INCLUDED IN THE COST OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

STAGE 5

STAGE 6A

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Westmont, Illinois

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. 80 / US 30 INTERCHANGE
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING
TRAFFIC SIGNAL EQUIPMENT PLAN
US 30 AT I-80 EAST RAMPS / OLD HICKORY ROAD

SCALE: 1"=20' | SHEET NO. 4 OF 5 SHEETS | STA. 318+42 TO STA. 321+30

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	99-4-1VB-1-R	WILL	840	400
		CONTRACT NO. 60N87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		