

SIGN DETAIL

1:27

SIGN ID		WB-WP-0350	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	7'-6" x 5'-0"	
MOUNTING / TYPE		GROUND / WOOD POST	
MOUNTING LOCATION		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

SIGN DETAIL

1:27

SIGN ID		RB-GM-0170	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	13'-6" x 11'-0"	
MOUNTING / TYPE		GROUND / BREAKAWAY	
MOUNTING LOCATION		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

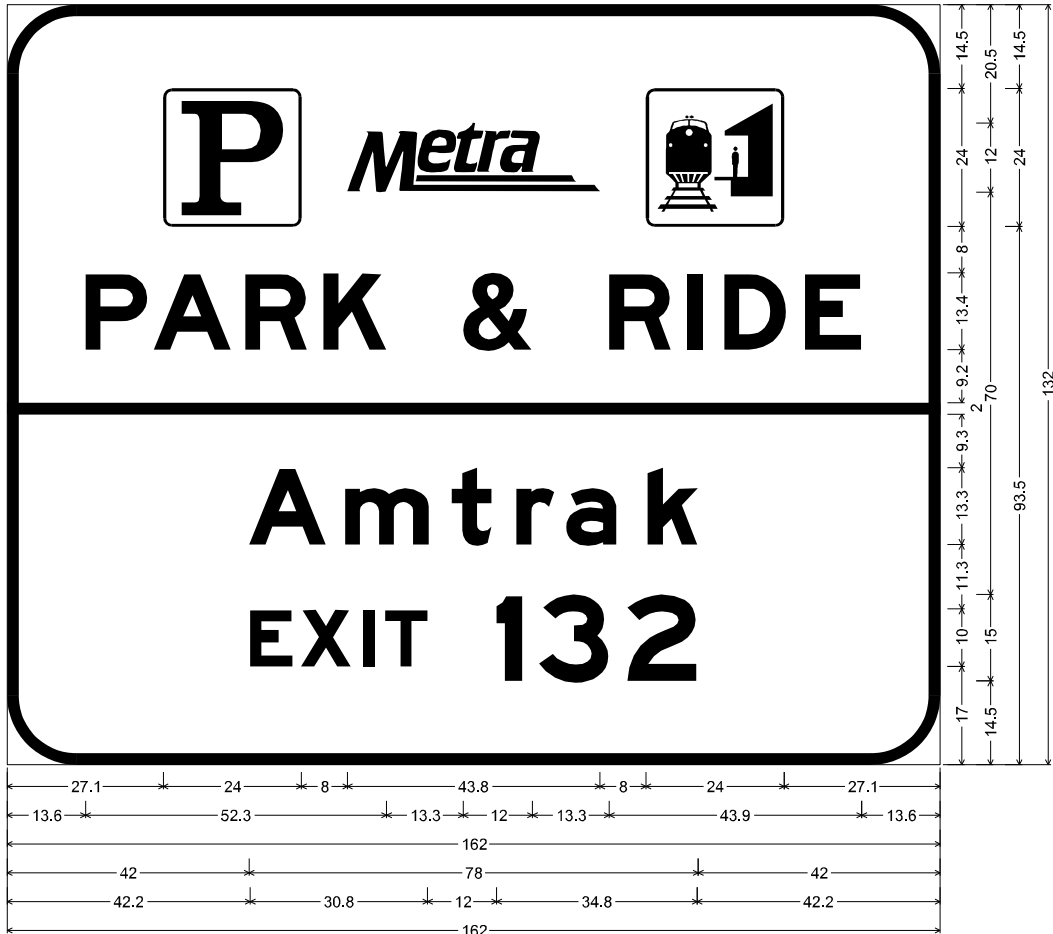


6.0" Radius, 1.5" Border, White on Green;
"EXIT", E Mod 2K 225% spacing;

6.0" Radius, 1.5" Border, White on Green;
"131", E Mod 2K; Arrow Custom - 29.3" 45°;

Table of widths and spaces

22.5	E	8.9	3.8	X	10.4	5.7	I	2.4	4.9	T	8.9	22.5
14.1	1	5.4	3.4	3	14.6	4.0	1	5.4	14.1	↗	23.0	6.0




5-EB-005-G;
Drawn by : DW;
12.0" Radius, 2.0" Border, White on Green;
Parking; Train Station; "PARK & RIDE", E Mod 2K; "Amtrak", E Mod 2K; "EXIT", E Mod 2K; "132", E Mod 2K;
Table of widths and spaces

27.1	P	24.0	8.0	max.	43.8	8.0	24.0	27.1																		
13.6	P	10.8	1.1	A	13.4	2.4	R	10.8	2.8	K	11.0	13.3	12.0	13.3	R	10.8	2.8	I	2.7	3.7	D	10.8	3.2	E	9.9	13.6
0.0	162.0		0.0																							
42.0	A	13.5	3.2	m	14.6	3.9	t	6.9	4.3	r	6.7	2.0	a	8.8	5.3	k	8.8	42.0								
42.2	E	7.4	1.4	X	8.7	2.1	I	2.0	1.8	T	7.4	12.0	4.5	2.8	3	12.2	3.2	2	12.1	42.2						

DIMENSIONS ARE IN INCHES.TENTHS

DIMENSIONS ARE IN INCHES.TENTHS

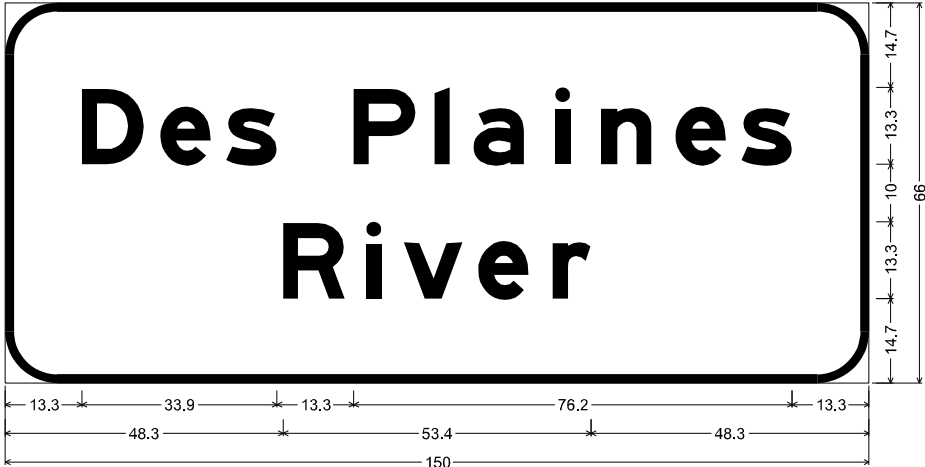
<div>MODEL: Sheet 10</div> <div>FILE NAME: DWG/21</div> <div></div>	USER NAME = jschumann			DESIGNED - JLS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS				F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - JLS			CHECKED - AB	REVISED -						80	FAI 80 21 INTERCHANGE		WILL	1209	501
	PLOT SCALE = 100,000 ' / in.			DATE - 4/25/2025	REVISED -						CONTRACT NO. 62R22					
	PLOT DATE = 4/22/2025										ILLINOIS FED. AID PROJECT					
				SCALE: NONE			SHEET 10 OF 14 SHEETS		STA. TO STA.							

Model: Sheet 11
File Name: p:\projects\trans\trans-corp-pw-hosted\Documents\projects_2018\CH401\401180022\03-MS9\CD\62022-INT-4 [Center]\Sheet\CLW\ID121222-sh1-dgn-details.dgn

SIGN DETAIL

1:15

SIGN ID		RB-GM-0190	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	12'-6" x 5'-6"	
MOUNTING / TYPE		GROUND / BREAKAWAY	
MOUNTING LOCATION		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



9.0" Radius, 1.5" Border, White on Green;
"Des Plaines", E Mod 2K; "River", E Mod 2K;
Table of widths and spaces

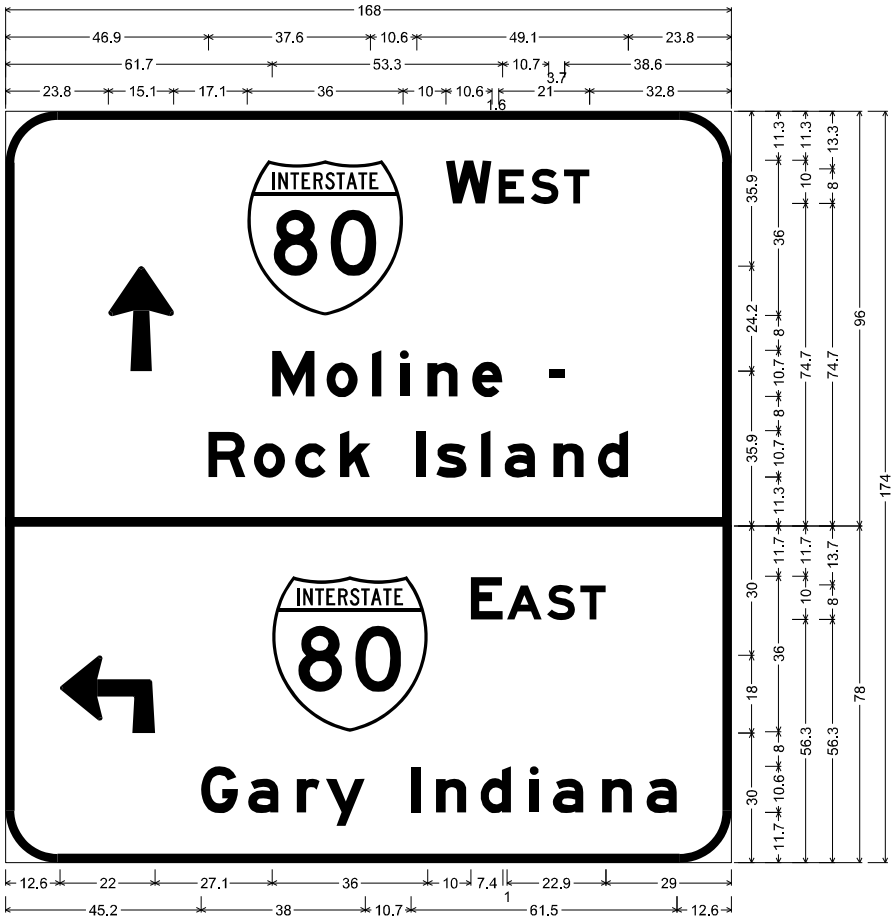
13.3	D	10.8	2.8	e	8.8	2.7	s	8.8	13.3	P	10.8	3.2	l	2.7	4.1	a	8.8	5.4	i	2.6	5.4	n	8.8	4.1	e	8.8	2.7	s	8.8	13.3
48.3	R	10.8	3.6	i	2.6	3.9	v	10.3	2.6	e	8.8	4.2	r	6.6	48.3															

DIMENSIONS ARE IN INCHES,TENTHS

SIGN DETAIL

1:20

SIGN ID		NB-GM-0170	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14'-0" x 14'-6"	
MOUNTING / TYPE		GROUND / BREAKAWAY	
MOUNTING LOCATION		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



12.0" Radius, 2.0" Border, White on Green;
Arrow Custom - 24.3" 90"; "WEST", E Mod 2K; "Moline -", E Mod 2K;
"Rock Island", E Mod 2K;

12.0" Radius, 2.0" Border, White on Green;
90 Deg Advance Turn Arrow 22.0" X 18.0"; "EAST", E Mod 2K; "Gary Indiana", E Mod 2K;
Table of widths and spaces

23.8	↑	15.1	17.1	36.0	10.0	W	6.1	1.6	E	5.9	1.5	S	6.4	1.2	T	6.0	32.8															
61.7	M	9.9	2.7	o	7.2	3.3	2.2	4.2	2.2	4.2	n	7.1	3.3	7.0	10.7	3.7	38.6															
46.9	R	8.7	1.9	o	7.2	2.4	c	7.0	3.3	7.1	10.6	2.2	2.4	s	7.1	3.3	i	2.1	3.3	a	7.0	4.3	n	7.1	3.3	d	7.0	23.8				
12.6	↙	22.0	27.1	36.0	10.0	E	7.4	1.0	A	8.1	1.2	S	6.4	1.2	G	6.0	29.0															
45.2	G	8.7	2.2	a	7.1	4.2	r	5.4	1.3	y	9.1	10.7	2.1	3.6	n	7.1	3.3	d	7.0	4.3	i	2.1	3.3	a	7.1	4.2	n	7.1	3.3	a	7.0	12.6

DIMENSIONS ARE IN INCHES,TENTHS



USER NAME	= jschumann	DESIGNED - JLS	REVISED -
DRAWN - JLS	REVISED -		
PLOT SCALE = 100,000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 4/22/2025	DATE - 4/25/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: NONE SHEET 11 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	502
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

MODEL: Sheet 12
FILE NAME: p:\transystems-pw\bartley.com\transys\corp-pw\hosted\Documents\Projects_2018\CH4001401180022\03-MS9\CD\62R22-INT-4 [Center]\Sheet\CLW\ID162R22-shh-dgn-details.dgn

SIGN DETAIL

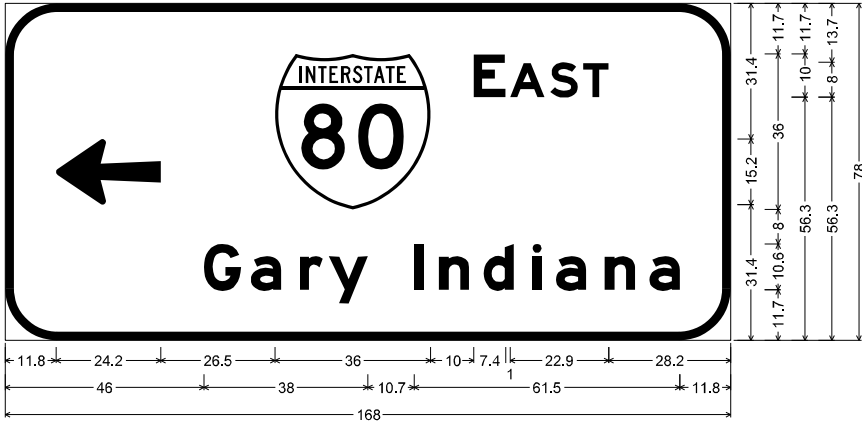
1:50

SIGN ID		NB-GM-0211	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14'-0" x 6'-6"	
MOUNTING / TYPE		GROUND / BREAKAWAY	
MOUNTING LOCATION		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

SIGN DETAIL

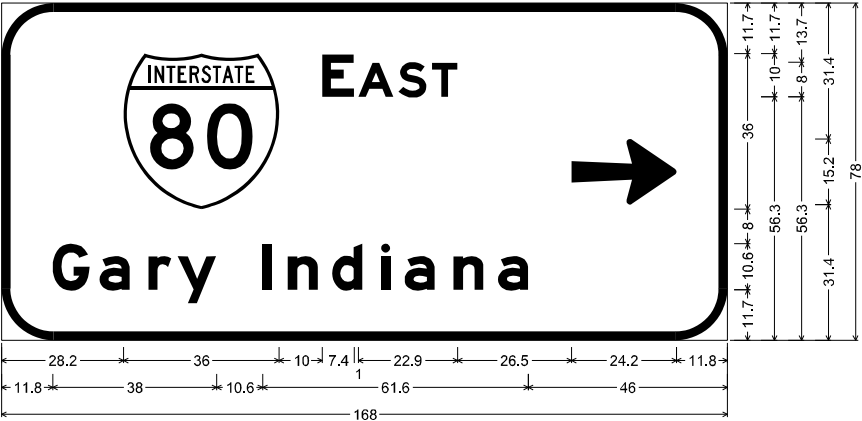
1:30

SIGN ID		SB-GM-0220	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	14'-0" x 6'-6"	
MOUNTING / TYPE		GROUND / BREAKAWAY	
MOUNTING LOCATION		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



12.0" Radius, 2.0" Border, White on Green;
Arrow Custom - 24.3" 180°; "EAST", E Mod 2K; "Gary Indiana", E Mod 2K;
Table of widths and spaces

11.8	←	24.2	26.5	36.0	10.0	E	7.4	1.0	A	8.1	1.2	S	6.4	1.2	T	6.0	28.2																
46.0	G	8.7	2.2	a	7.1	4.2	r	5.4	1.3	y	9.1	10.7	l	2.1	3.6	n	7.1	3.3	d	7.0	4.3	i	2.1	3.3	a	7.1	4.2	n	7.1	3.3	a	7.0	11.8



12.0" Radius, 2.0" Border, White on Green;
"EAST", E Mod 2K; "Gary Indiana", E Mod 2K; Arrow Custom - 24.3" 0°;
Table of widths and spaces

節		E		A		S		T		→																				
28.2	36.0	10.0	7.4	1.0	8.1	1.2	6.5	1.2	5.9	26.5	24.2	11.8																		
11.8	G	8.6	a	7.0	r	5.3	y	9.1	10.6	l	2.2	3.6	n	7.0	3.3	d	7.1	4.2	i	2.2	3.3	a	7.0	4.3	n	7.0	3.3	a	7.1	46.0

DIMENSIONS ARE IN INCHES, TENTHS



USER NAME	= jschumann	DESIGNED	- JLS	REVISED	-
DRAWN	- JLS	REVIS	-		
PLOT SCALE	= 100,000 ' / in.	CHECKED	- AB	REVISED	-
PLOT DATE	= 4/22/2025	DATE	- 4/25/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: NONE SHEET 12 OF 14 SHEETS STA. TO STA.

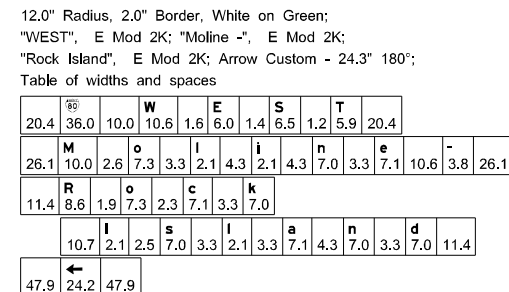
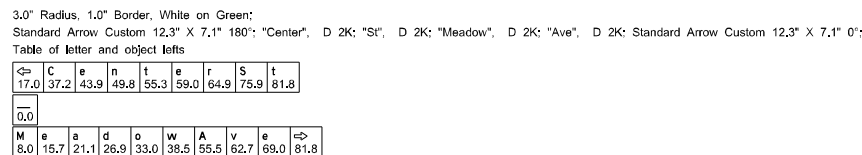
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	503
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

1:50

SIGN ID		RA-GM-0143	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	8'-6" x 3'-6"	
MOUNTING / TYPE		GROUND / BREAKAWAY	
MOUNTING LOCATION		-	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-

1:50

SIGN ID		NB-GM-0310	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	10'-0" x 10'-0"	
MOUNTING / TYPE		GROUND / BREAKWAY	
MOUNTING LOCATION		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - AP
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - AP
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



DIMENSIONS ARE IN INCHES,TENTHS

DIMENSIONS ARE IN INCHES,TENTHS



USER NAME = jschumann	DESIGNED - JLS	REVISED -
	DRAWN - JLS	REVISED -
PLOT SCALE = 100,000' = 1 in.	CHECKED - AB	REVISED -
PLOT DATE = 4/22/2025	DATE - 4/25/2025	REVISED -

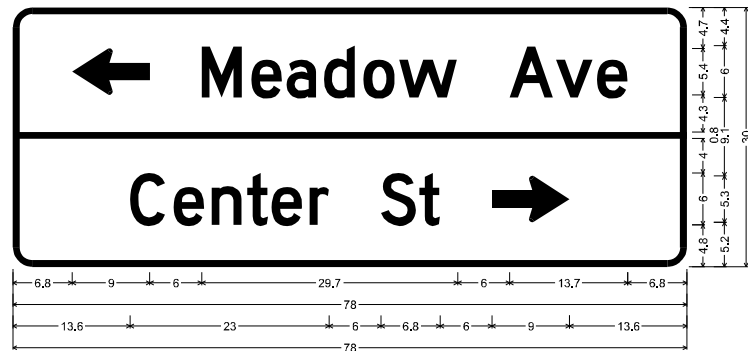
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN PANEL DETAILS				
SCALE: NONE	SHEET 13	OF 14	SHEETS	STA. TO STA.



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	504
		CONTRACT NO. 62R22		
		ILLINOIS	FED. AID PROJECT	

1:10

SIGN ID		RC-TS-0150	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	6'-6" x 2'-6"	
MOUNTING / TYPE		GROUND / TELESCOPING	
MOUNTING LOCATION		RIGHT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



2.3" Radius, 0.8" Border, White on Green;
Standard Arrow Custom 9.0" X 5.4" 180°; "Meadow", D 2K; "Ave", D 2K; "Center", D 2K; "St", D 2K;
Standard Arrow Custom 9.0" X 5.4" 0°;
Table of widths and spaces

6,8		6,0	M	4,7	1,1	3,5	0,6	a	3,4	0,9	d	3,6	1,0	3,6	0,5	w	6,8	6,0	A	5,1	0,3	v	4,2	0,5	e	3,6	6,8
0,0	78,0	0,0																									
13,6	C	4,0	1,0	e	3,5	0,9	3,5	0,6	t	2,4	0,4	e	3,6	0,8	r	2,3	6,0	S	4,1	0,3	t	2,4	6,0		9,0	13,6	

DIMENSIONS ARE IN INCHES.TENTHS

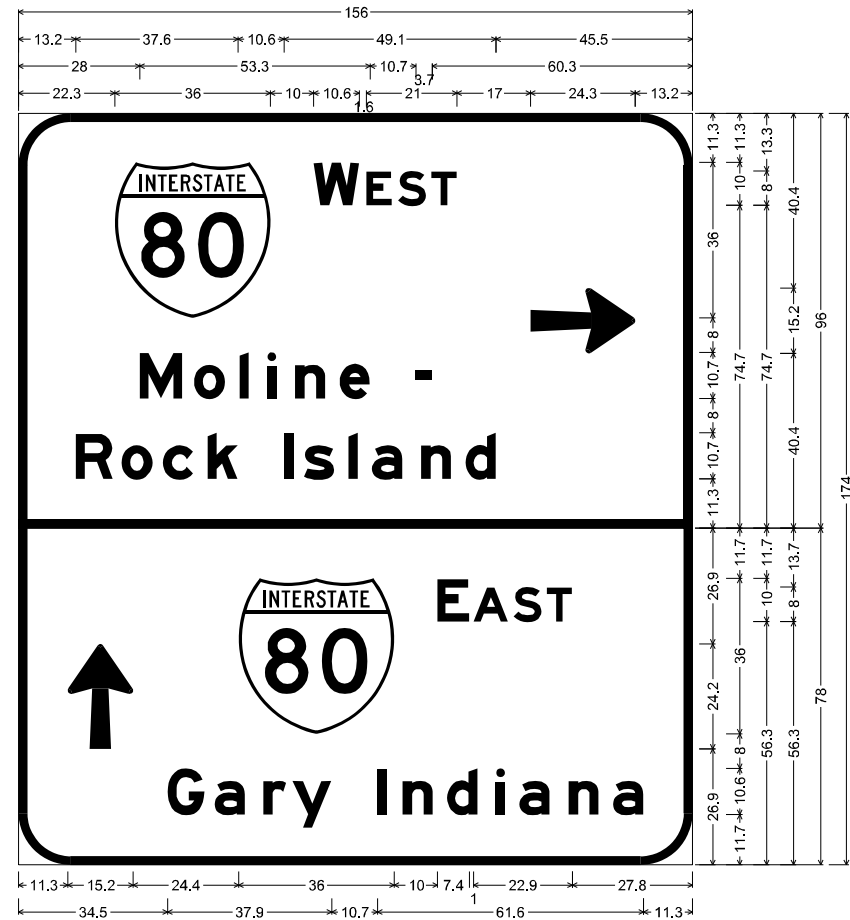


USER NAME = jschumann	DESIGNED - JLS	REVISED -
	DRAWN - JLS	REVISED -
PLOT SCALE = 100,000 ' / in.	CHECKED - AB	REVISED -
PLOT DATE = 4/24/2025	DATE - 4/25/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1:50

SIGN ID		SB-GM-0330	
STRUCTURE NUMBER		-	
SIZE (W x H)	EXIT PLAQUE	-	
	MAIN PANEL	13'-0" x 14'-6"	
MOUNTING / TYPE		GROUND / BREAKAWAY	
MOUNTING LOCATION		LEFT	
SHEETING / COLOR	BACKGROUND	TYPE:	REFLECTIVE - ZZ
		COLOR:	GREEN
		TYPE:	-
		COLOR:	-
	LEGEND / BORDER	TYPE:	REFLECTIVE - ZZ
		COLOR:	WHITE
		TYPE:	-
		COLOR:	-



12.0" Radius, 2.0" Border, White on Green;
"WEST", E Mod 2K; "Moline -", E Mod 2K; "Rock Island", E Mod 2K;
Arrow Custom - 24.3" 0°;

12.0" Radius, 2.0" Border, White on Green;
Arrow Custom - 24.3" 90°; "EAST", E Mod 2K; "Gary Indiana", E Mod 2K;
Table of widths and spaces

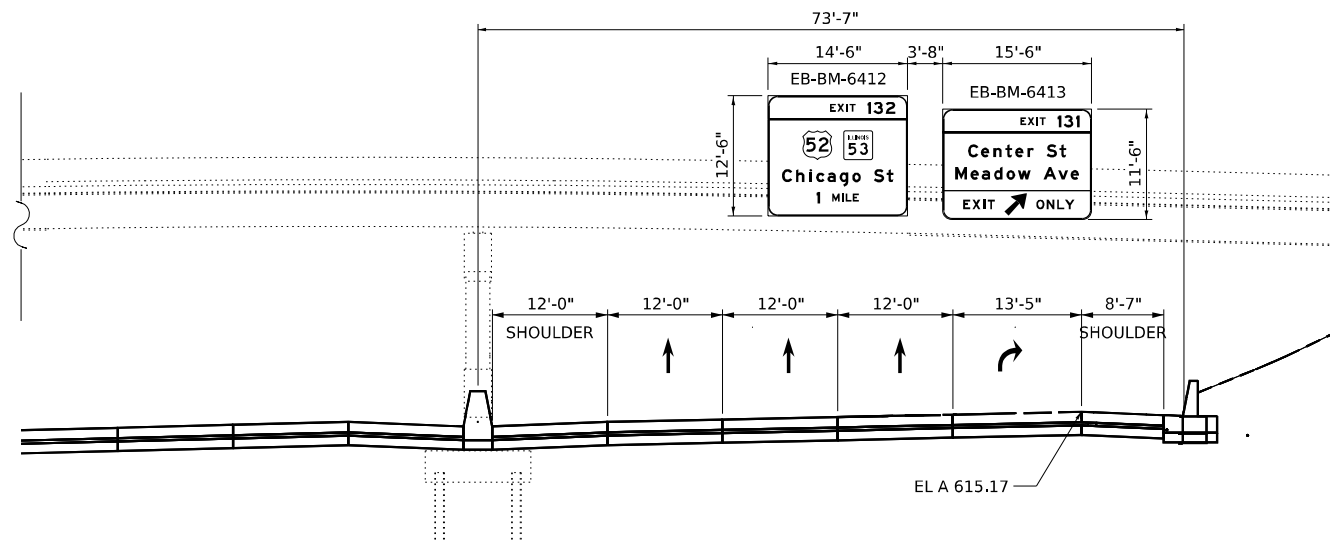
36		22.3	36.0	10.0	W	10.6	1.6	E	5.9	1.5	S	6.4	1.2	T	6.0	17.0	→	24.3	13.2											
M		28.0	9.9	2.7	o	7.2	3.4	i	2.1	4.3	i	2.1	4.3	n	7.0	3.3	e	7.0	-	3.7	60.3									
R		13.2	8.7	1.9	o	7.2	3.4	C	7.0	3.3	k	7.1	10.6	2.2	2.4	s	7.1	3.3	i	2.1	3.3	a	7.1	4.2	n	7.1	3.3	d	7.0	45.5
↑		11.3	15.2	24.4	36.0	10.0	7.4	1.0	E	8.1	1.2	S	6.5	1.2	5.9	T	27.8													
C		34.5	8.6	2.2	a	7.1	4.3	r	5.3	1.4	y	9.0																		
				10.7	i	2.1	3.7	n	7.0	3.3	d	7.1	4.2	i	2.2	3.3	a	7.0	4.3	n	7.0	3.3	a	7.1	11.3					

DIMENSIONS ARE IN INCHES.TENTHS

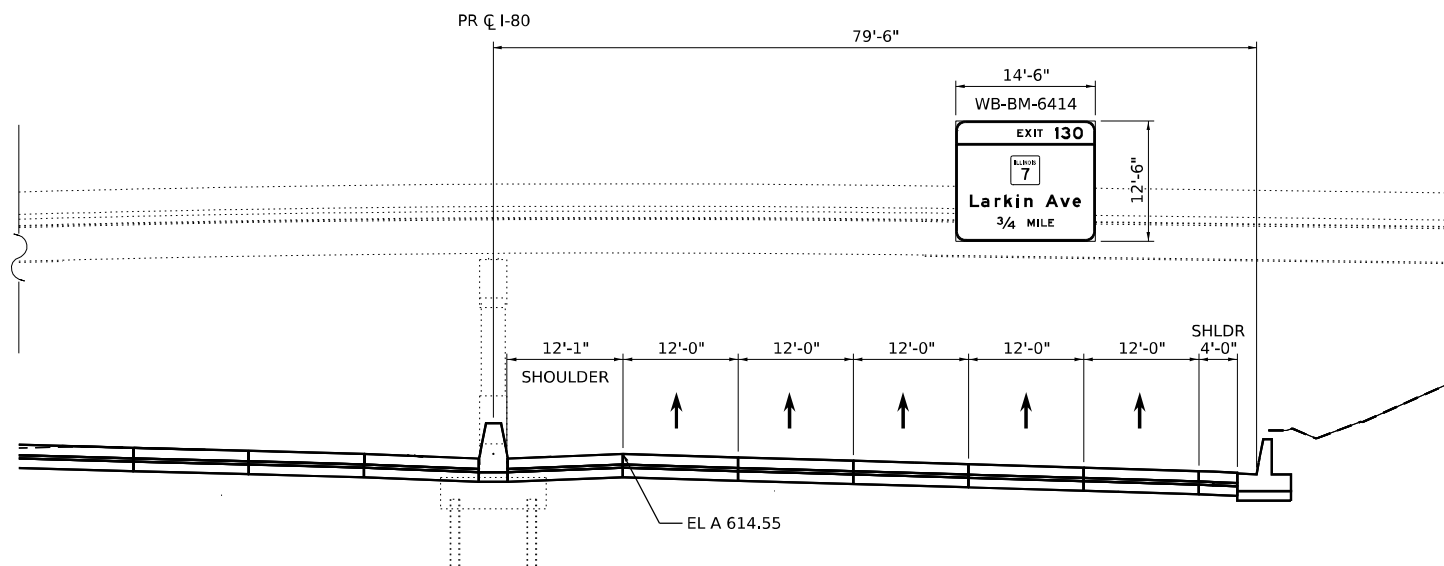
SIGN PANEL DETAILS

SCALE: NONE	SHEET 14 OF 14 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	505
		CONTRACT NO. 62R22		
ILLINOIS		FED. AID PROJECT		



STRUCTURE 1B099I080R131.6
PROPOSED MOUNTING DETAIL
EXISTING OVERHEAD SIGN STRUCTURE - BRIDGE
EB I-80, STA. 641+39
(LOOKING EAST)



STRUCTURE 1B099I080L131.6
PROPOSED MOUNTING DETAIL
EXISTING OVERHEAD SIGN STRUCTURE - BRIDGE
WB I-80, STA. 641+95
(LOOKING WEST)

Model: Default
 File Name: p:\transystems-pw\hntb\comtransyscorp-pw\hosted\Documents\Projects_2018\CH4001401180022\03-W59\CAD\62R22-INT-4 (Center)\Sheets\Civil\62R22-shl-dgn mounting-01.dgn

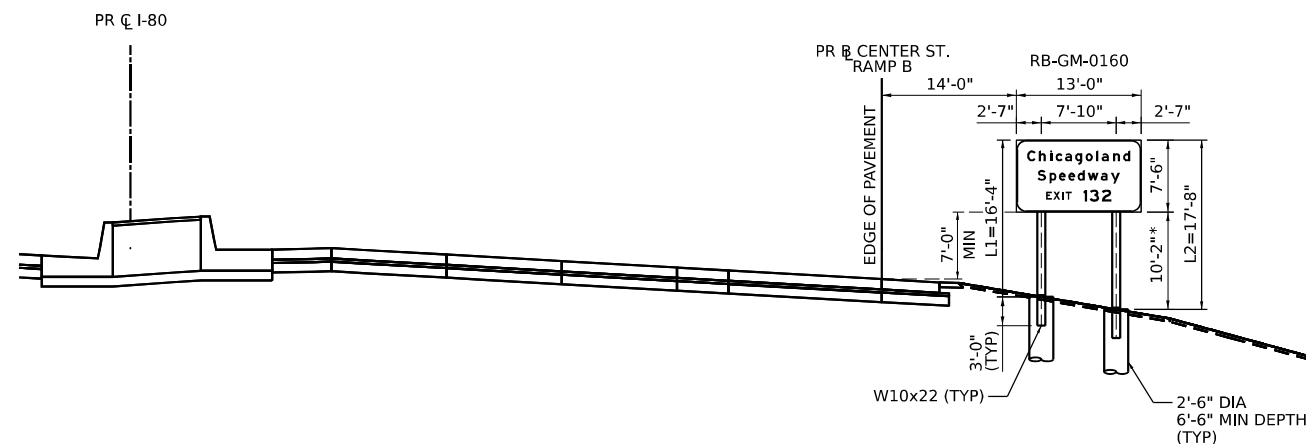
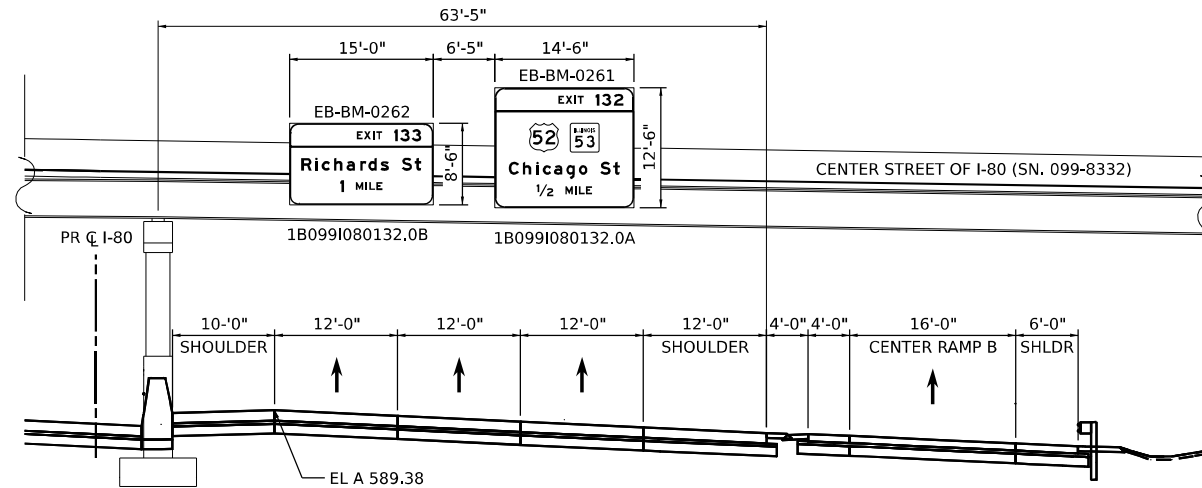


USER NAME	= jschumann	DESIGNED -	JLS	REVISED -	
DRAWN -	JLS	REVISED -			
PLOT SCALE	= 20,000' / in.	CHECKED -	AB	REVISED -	
PLOT DATE	= 6/9/2025	DATE -	4/25/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN MOUNTING DETAILS			
I-80			
SCALE: NONE	SHEET 1 OF 6 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	506
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



NOTE:
* CLEAR HEIGHT

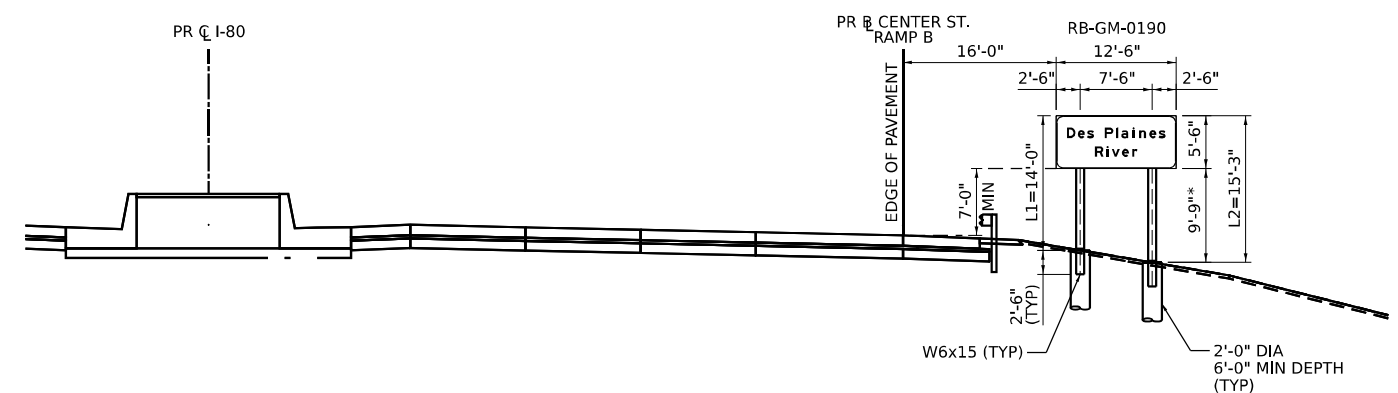
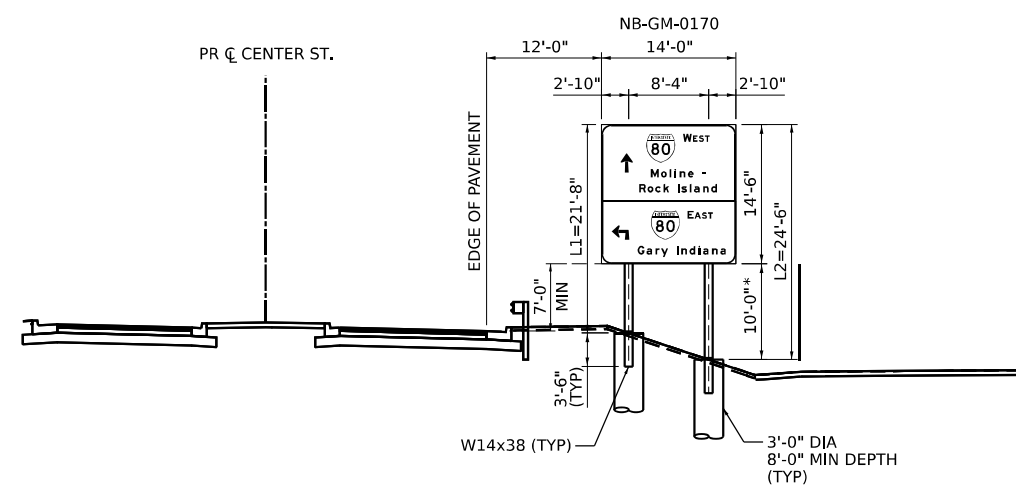
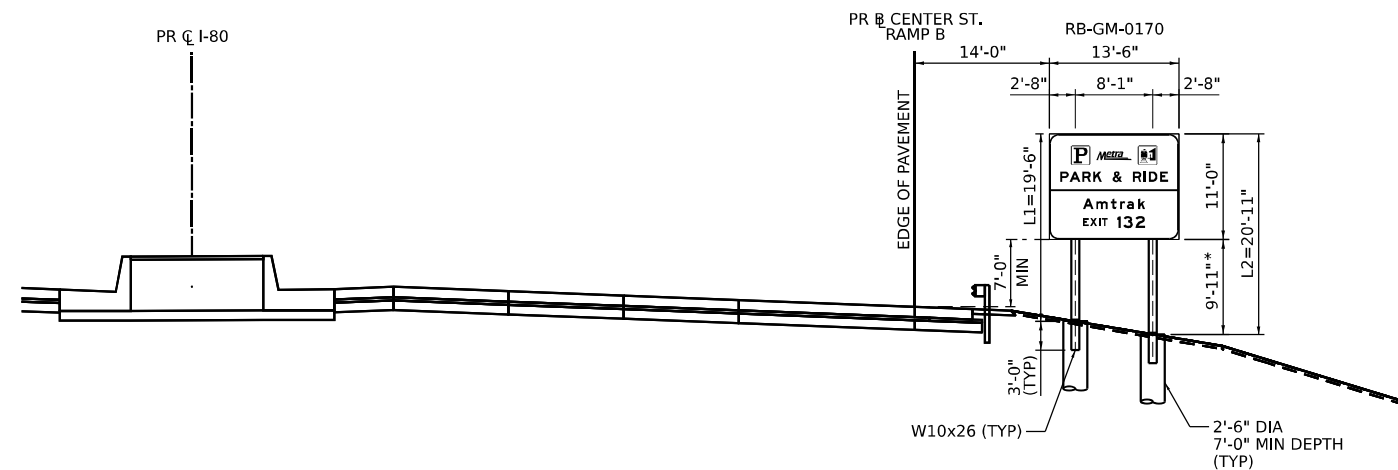


USER NAME = jschumann	DESIGNED - JLS	REVISED -
	DRAWN - JLS	REVISED -
PLOT SCALE = 20,000' / in.	CHECKED - AB	REVISED -
PLOT DATE = 6/9/2025	DATE - 4/25/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN MOUNTING DETAILS					
I-80					
SCALE: NONE	SHEET	3	OF	6	SHEETS
STA.			TO STA.		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	508
		CONTRACT NO. 62R22		
		ILLINOIS	FED. AID PROJECT	



NOTE:
* CLEAR HEIGHT



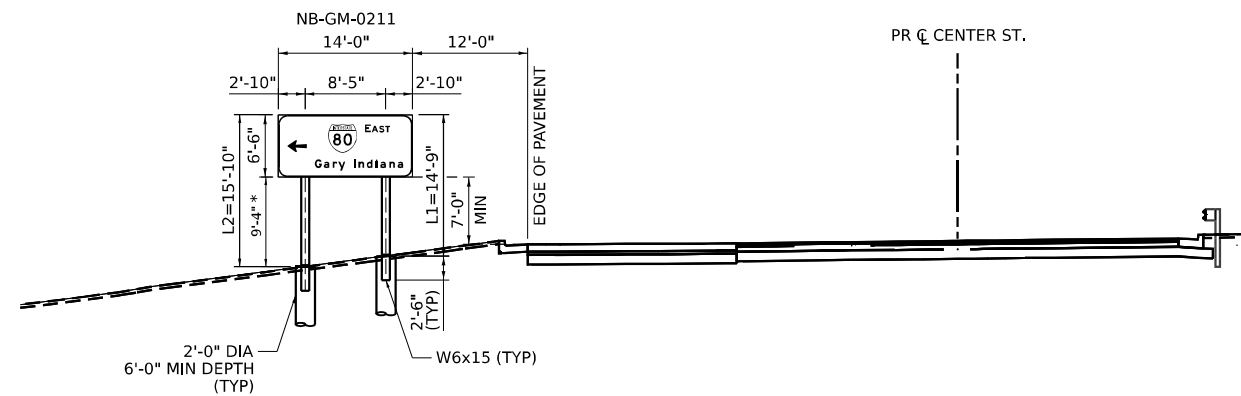
USER NAME	= jschumann	DESIGNED	= JLS	REVISED	=
		DRAWN	= JLS	REVISED	=
PLOT SCALE	= 20,000' / in.	CHECKED	= AB	REVISED	=
PLOT DATE	= 4/22/2025	DATE	= 4/25/2025	REVISED	=

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

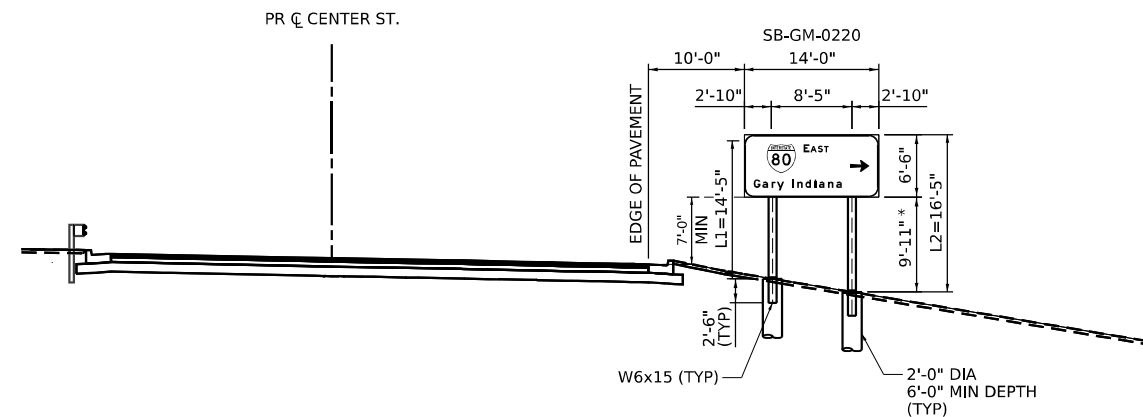
SIGN MOUNTING DETAILS I-80 AND CENTER ST

SCALE: NONE	SHEET 4 OF 6 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	509
		CONTRACT NO. 62R22		
ILLINOIS		FED. AID PROJECT		



**PROPOSED SIGN NB-GM-0211
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
NB CENTER ST, STA. 21+86
(LOOKING NORTH)**



**PROPOSED SIGN SB-GM-0220
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
SB CENTER ST, STA. 22+44
(LOOKING SOUTH)**

NOTE:
* CLEAR HEIGHT

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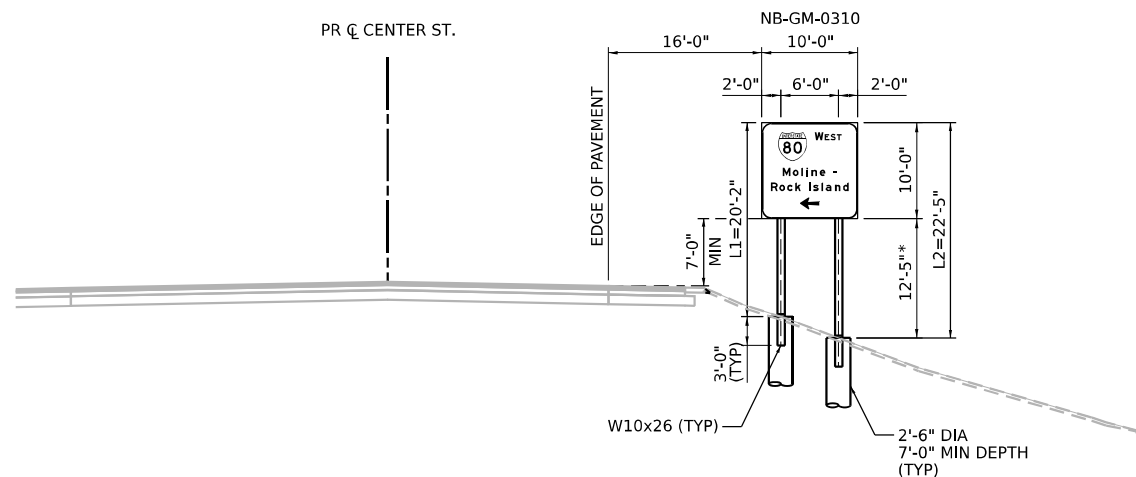


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DRAWN - JLS		REVISED -	
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PLOT DATE = 6/9/2025	DATE - 4/25/2025	REVISED -	

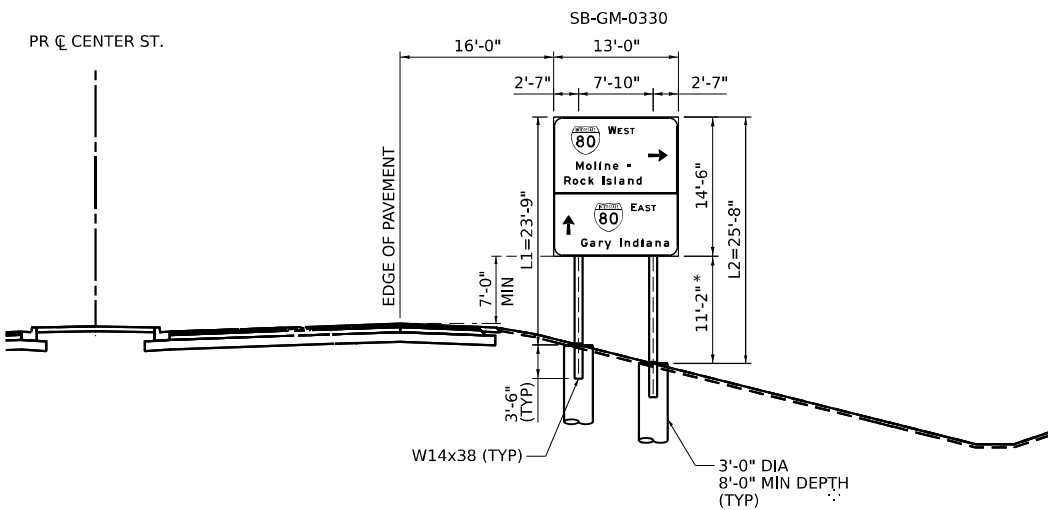
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGN MOUNTING DETAILS CENTER ST.			
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	510
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



**PROPOSED SIGN NB-GM-0310
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
NB CENTER ST, STA. 31+00
(LOOKING NORTH)**



**PROPOSED SIGN SB-GM-0330
MOUNTING DETAIL
STRUCTURAL STEEL BREAKAWAY SIGNPOSTS
SB CENTER ST, STA. 33+85
(LOOKING SOUTH)**

NOTE:
* CLEAR HEIGHT



USER NAME	= jschumann	DESIGNED -	JLS	REVISED -	
DRAWN -	JLS	REVISED -			
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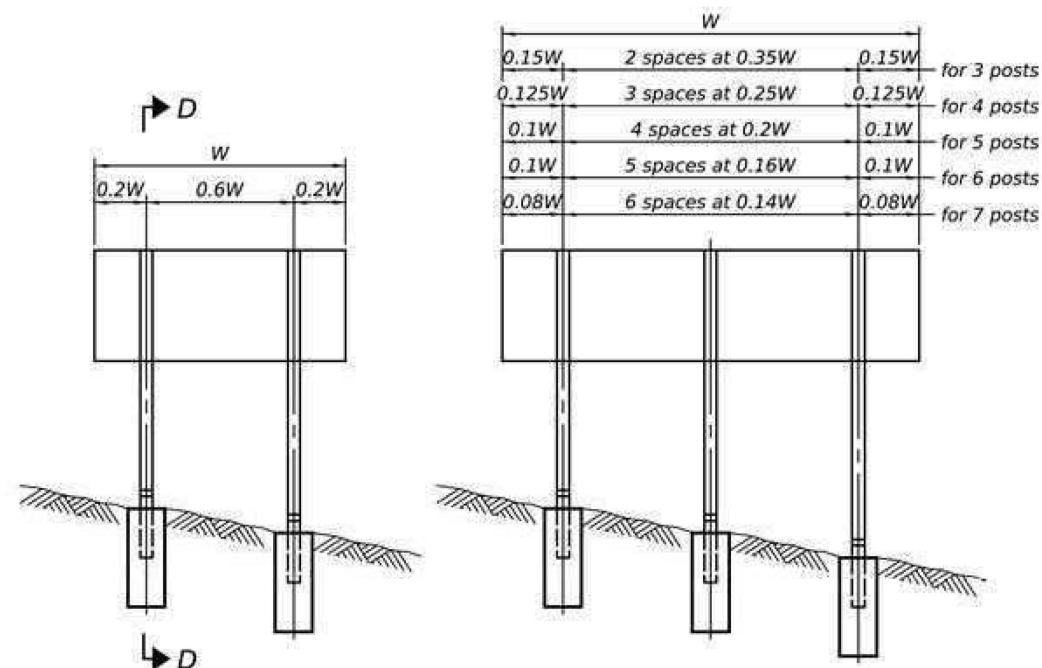
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGN MOUNTING DETAILS
CENTER ST**

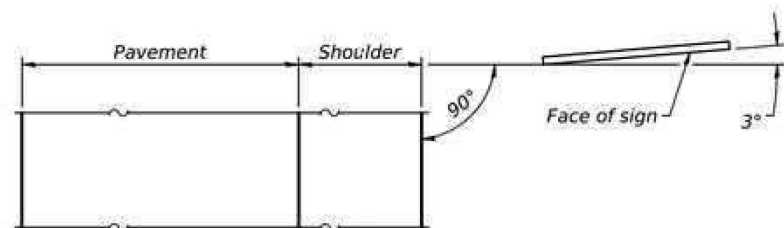
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

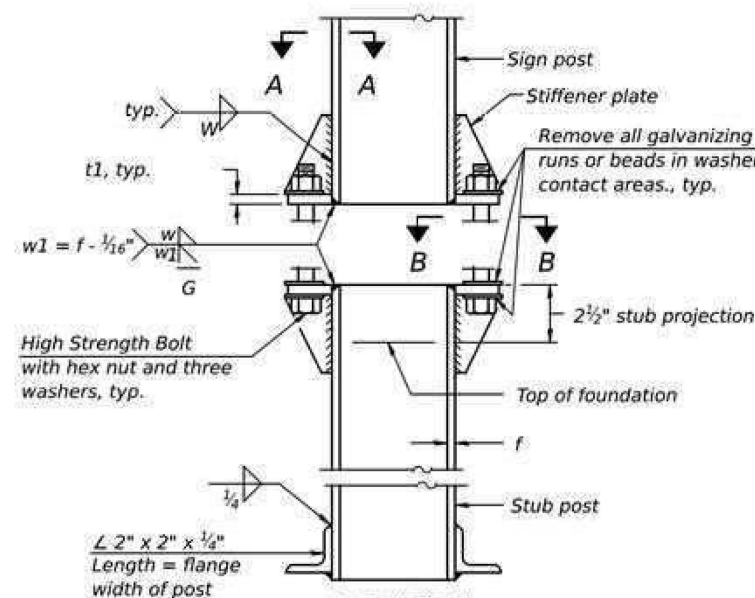
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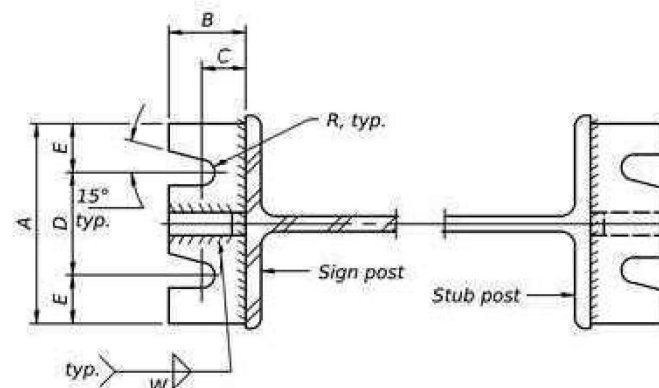
ELEVATION



LOCATION SKETCH

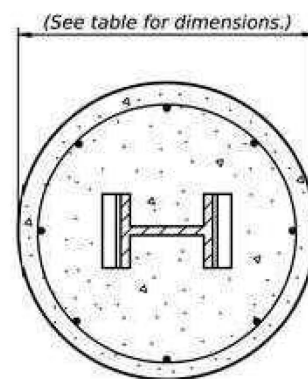


ELEVATION
SIGN POST & STUB POST

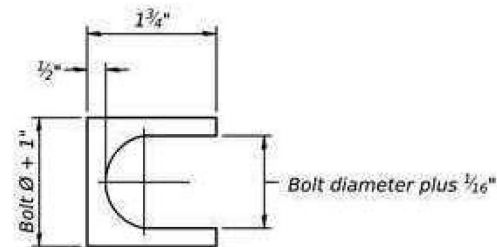


SECTION A-A

SECTION B-B

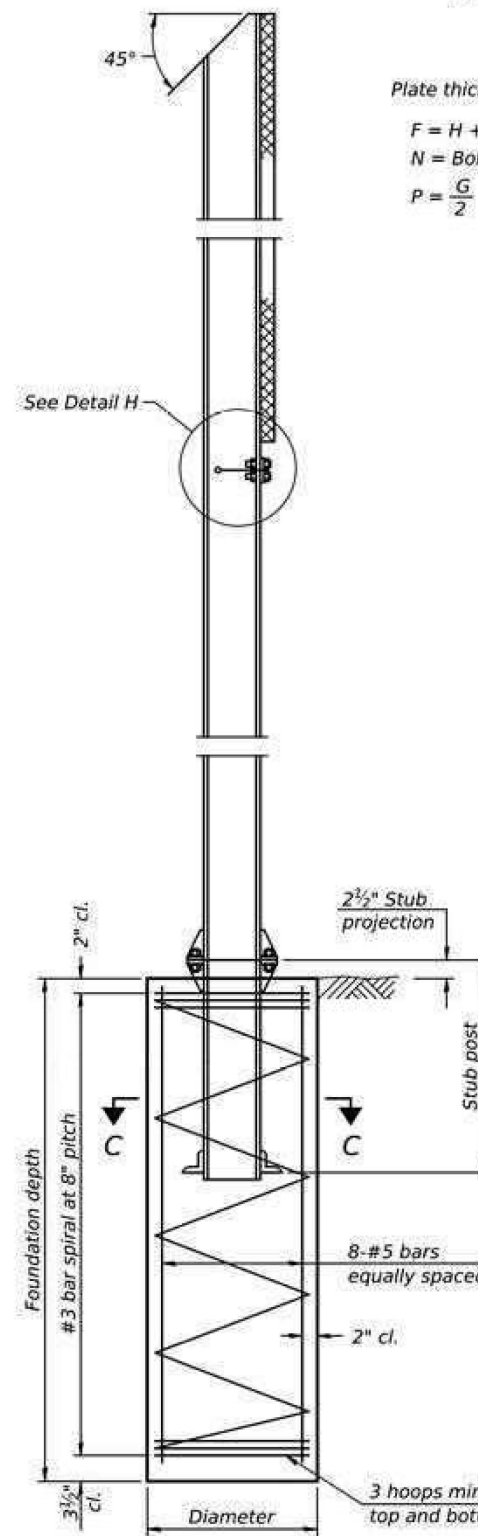


SECTION C-C

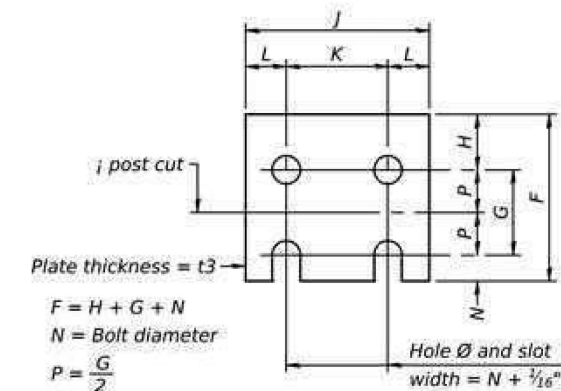


SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

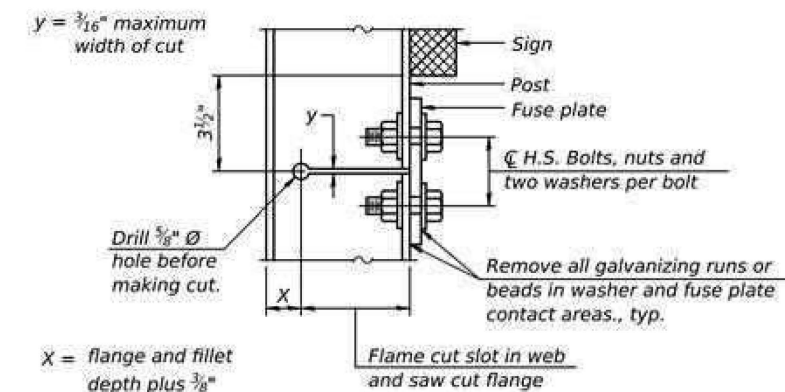


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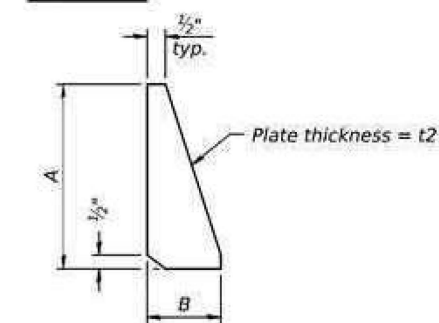


FUSE PLATE DETAIL
(Install with notches down.)

FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



DETAIL H



STIFFENER PLATE DETAIL

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:

Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1

5-15-2023

(Sheet 1 of 2)



USER NAME = SUSERS	DESIGNED -	REVISED -
PLOT SCALE = SCALES	CHECKED -	REVISED -
PLOT DATE = DATES	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST DETAILS

SHEET OF SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	512
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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PLOT DATE	= 6/11/2025

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CHECKED	- AB
DATE	- 4/25/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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I-80

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R22				
ILLINOIS		FED. AID PROJECT		

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PLOT DATE	= 6/11/2025

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CHECKED	- AB
DATE	- 4/25/2025

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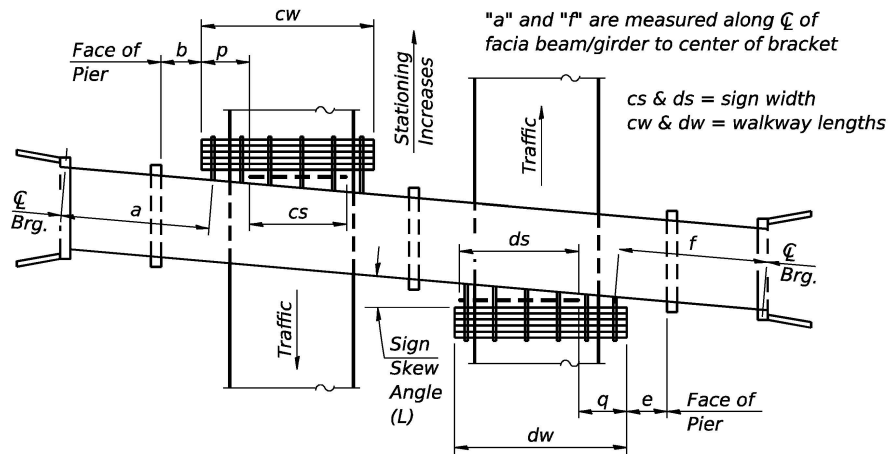
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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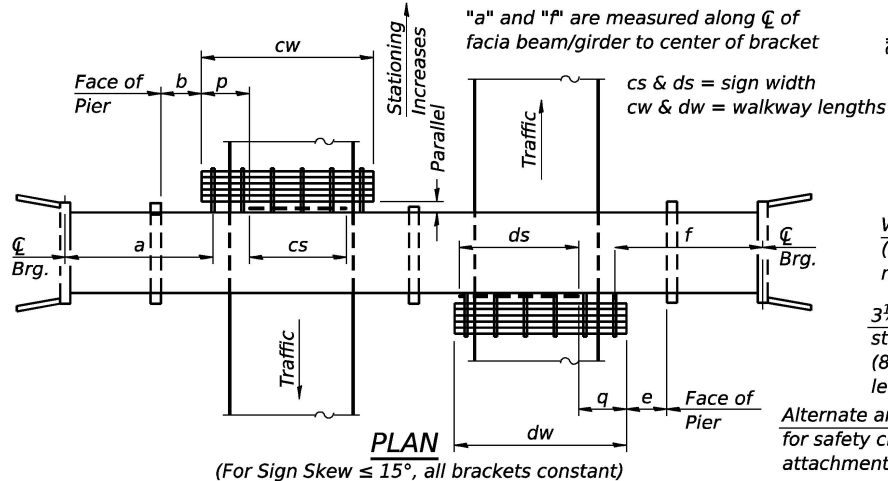
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R22				
ILLINOIS		FED. AID PROJECT		

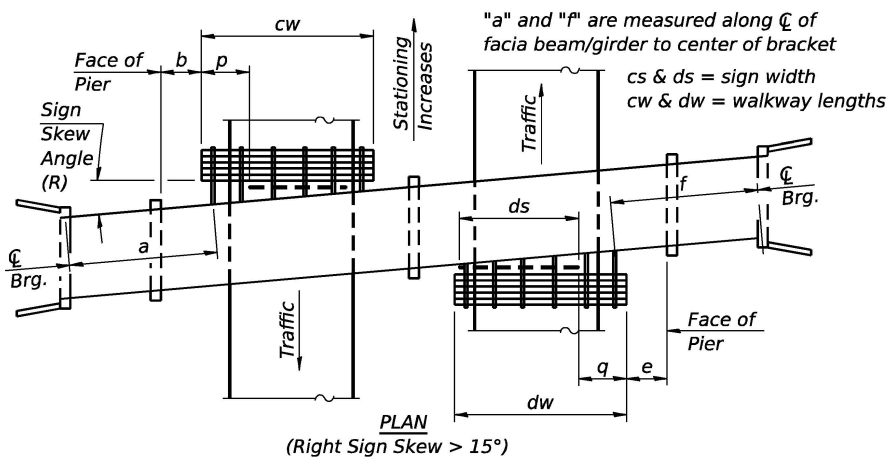
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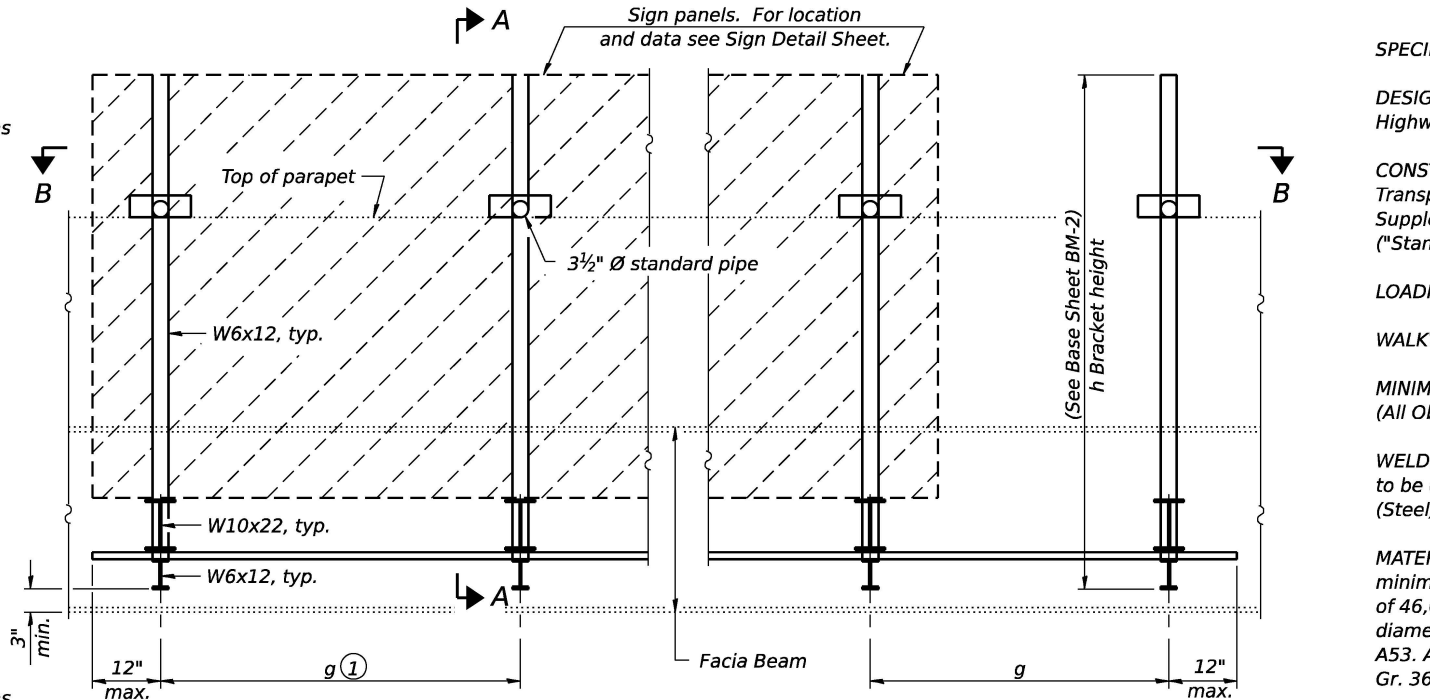
PLAN
(Left Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



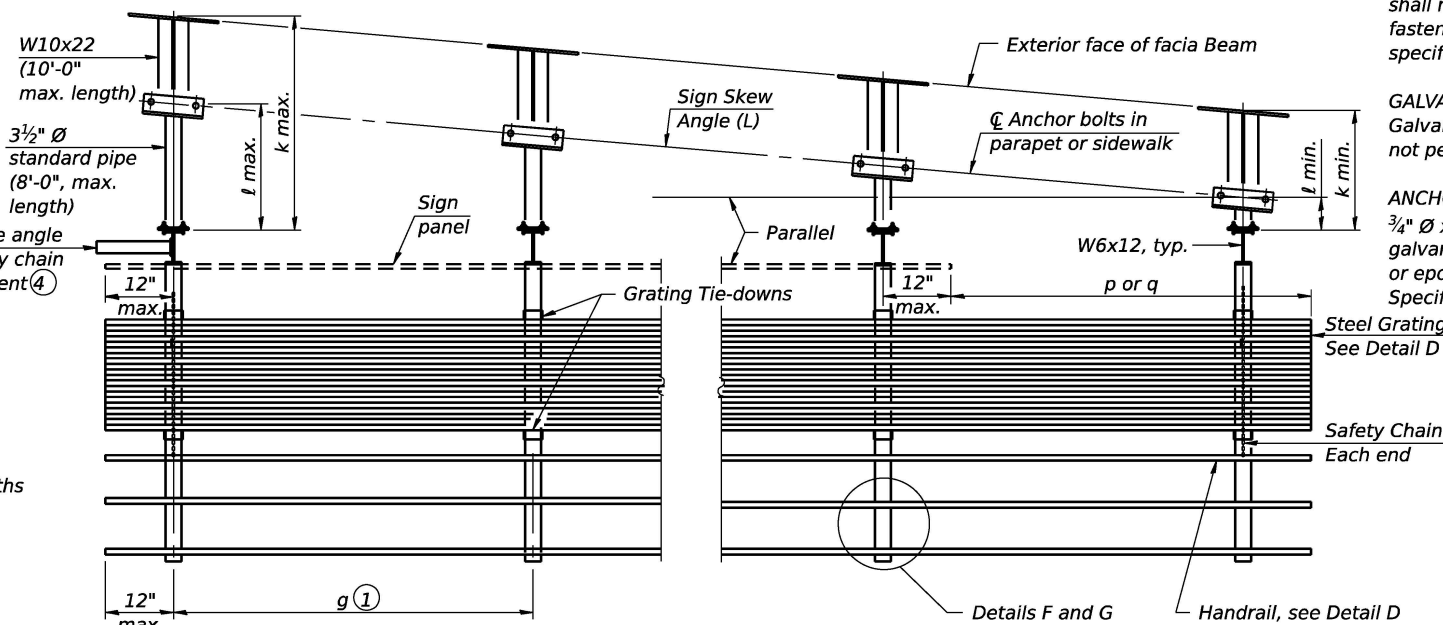
PLAN
(For Sign Skew ≤ 15°, all brackets constant)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



PLAN
(Right Sign Skew > 15°)
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION
(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B
(Shown: Left Sign Skew > 15°)

NOTES

1. Walkway grating, walkway brackets, handrail, lighting and associated components will not be installed in Contract 62R22

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	cs	cw	ds	dw	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (cw + dw)
1B099I080132.0A	20.5°	28+57.78	099-8332	Center Street Over I-80	98'-6"	-	14'-6"	-	-	-	-	-	4'-2"	4	-	-	-
1B099I080132.0B	20.5°	28+80.33	099-8332	Center Street Over I-80	120'-9 3/4"	-	15'-0"	-	-	-	-	-	4'-4"	4	-	-	-

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for ② 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.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

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

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. 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 (M183, M223 Gr. 50).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

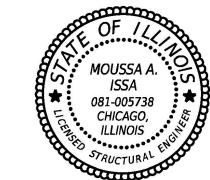
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4" Ø x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

- ① Bracket spacing $g \leq 6'-0"$, max. Spacing shall be uniform if possible but may vary $\pm 6"$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- ② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- ③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- ④ If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

TOTAL BILL OF MATERIAL

③ OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	Foot	30
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Signed Moussa A. Issa
Dr. Moussa A. Issa, S.E. IL Lic. No. 081-005738
Expires 11-30-2026
Date 4/22/2025 For Sheets 1 Thru 4.

BM-1

5-15-2023

HBM
ENGINEERING GROUP, LLC

USER NAME =	DESIGNED -	ANS, KJD	REVISED -
PLOT SCALE =	CHECKED -	JMG	REVISED -
PLOT DATE =	DRAWN -	ANS, KJD	REVISED -
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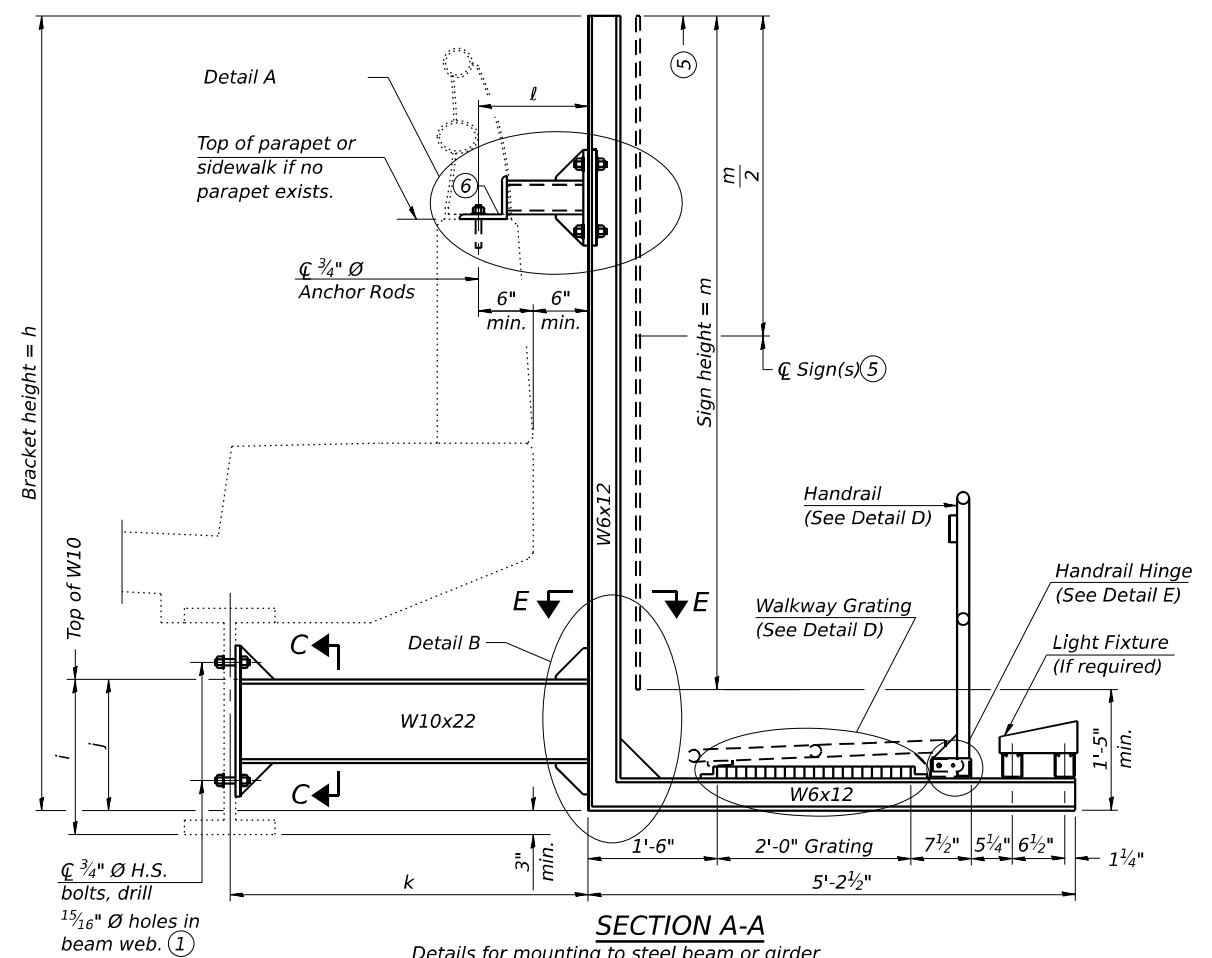
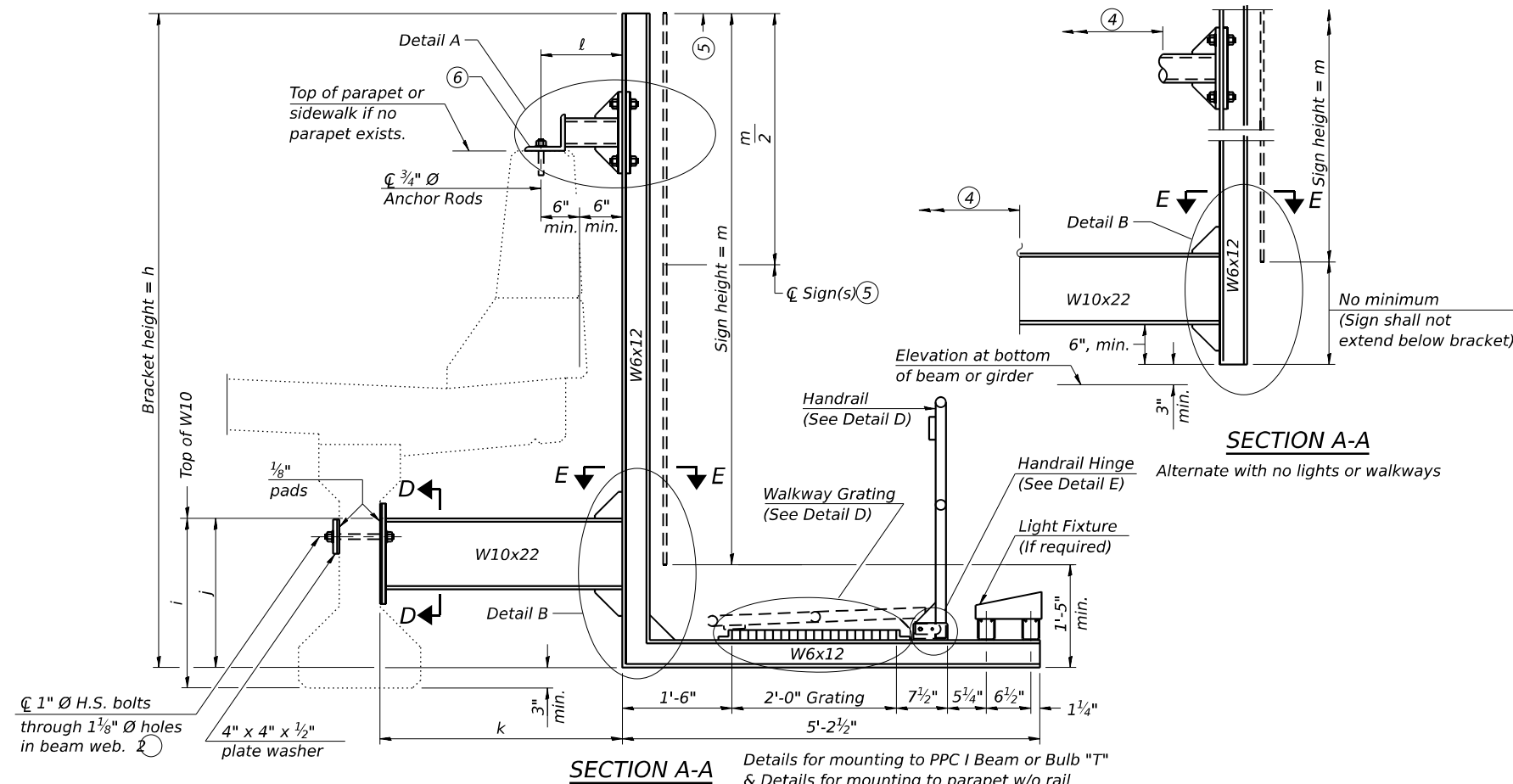
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 4-EB-046-B BRIDGE MOUNT SIGN STRUCTURE
GENERAL PLAN AND ELEVATION

SHEET 1 OF 4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	516
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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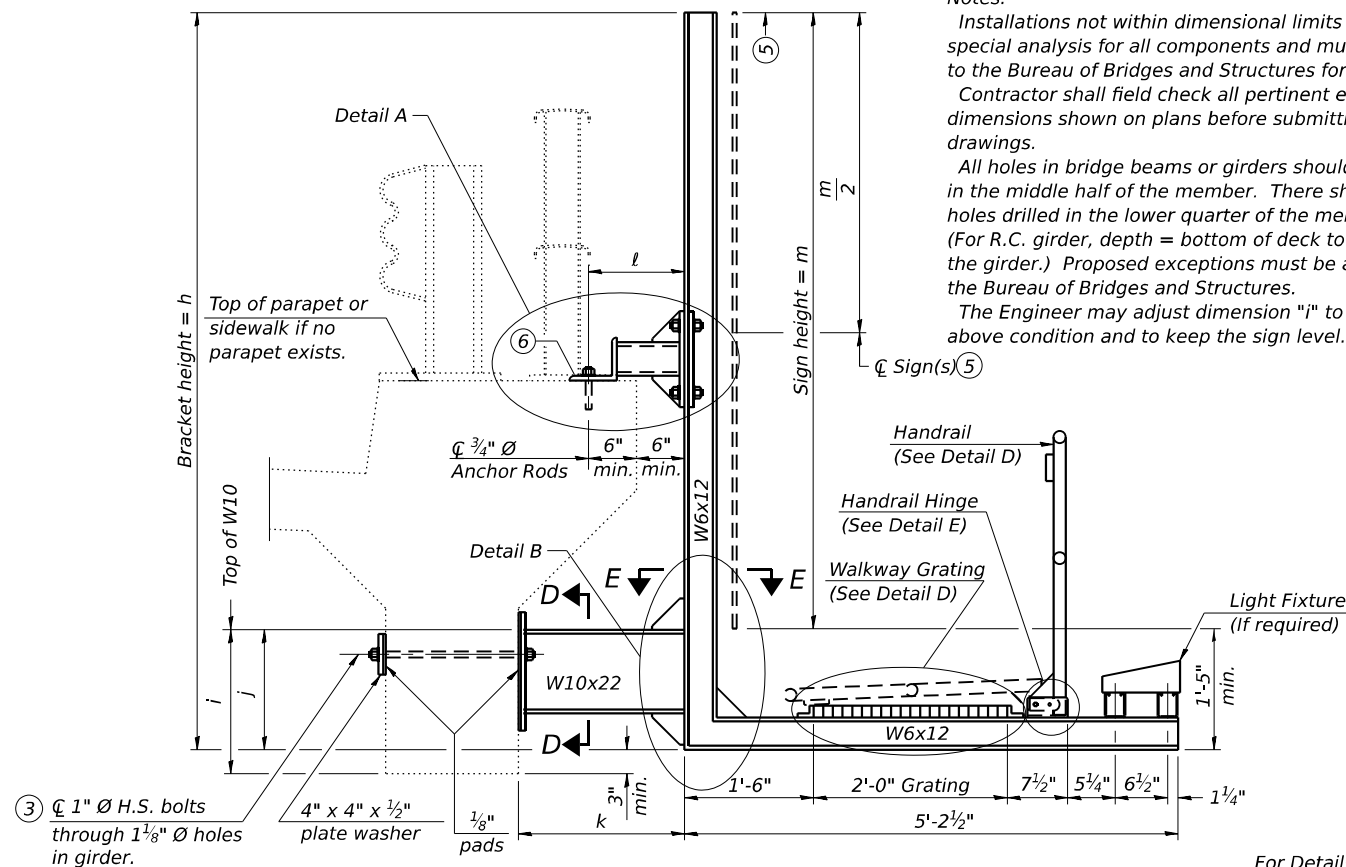
Notes:
Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval.
Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.
All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.
The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

- Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- For attachment details of 3 1/2" pipe and W10x22, see other sections as applicable.
- Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

NOTES:

- Walkway grating, walkway brackets, handrail, lighting, and associated components of the sign structure/sign panel will not be installed.

* i = 2'-7 3/8" for 1B0991080132.0A at north bracket above splice plate



For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3.
For Details D & E, see Base Sheet BM-4.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
1B0991080132.0A	28+57.78	12'-6"	*2'-5"	1'-5"	8'-6 1/4"	5'-8 1/8"	12'-6"
1B0991080132.0B	28+80.33	8'-6"	2'-6"	1'-5"	8'-8 1/2"	5'-10 3/8"	8'-6"

BM-2

5-15-2023

HBM
ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - ANS, KJD	REVISED -
PLOT SCALE =	CHECKED - JMG	REVISED -
PLOT DATE =	DRAWN - ANS, KJD	REVISED -
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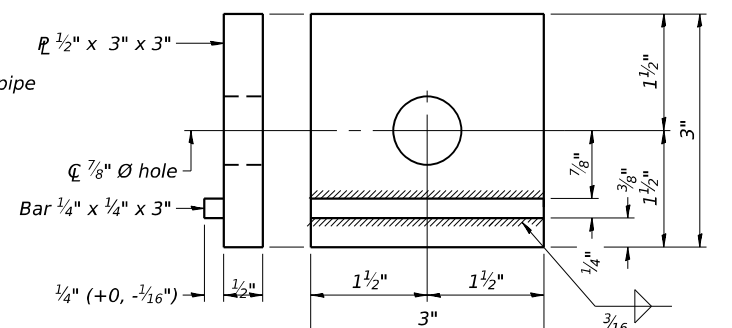
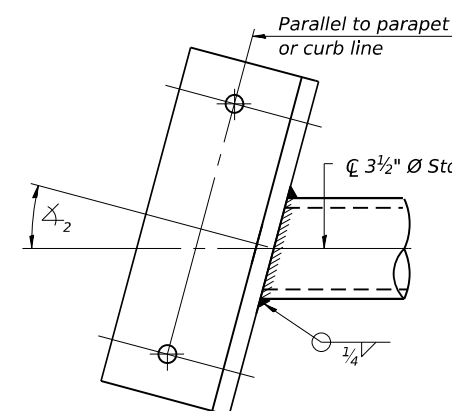
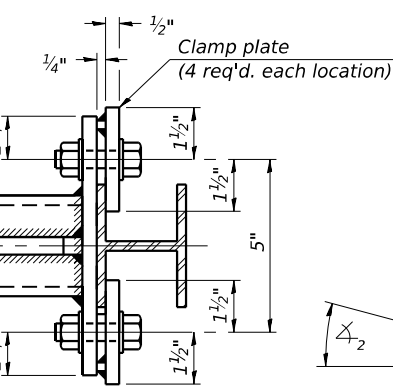
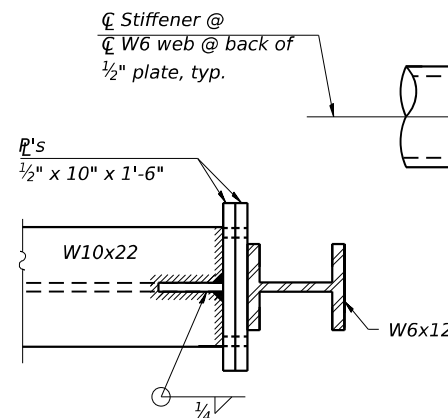
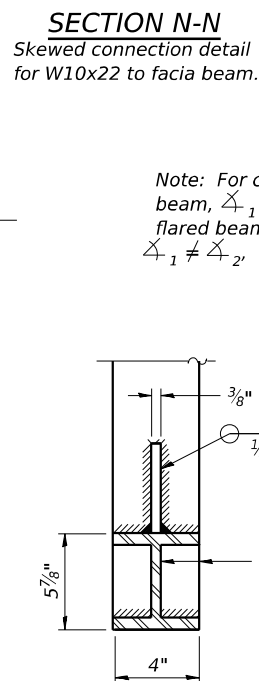
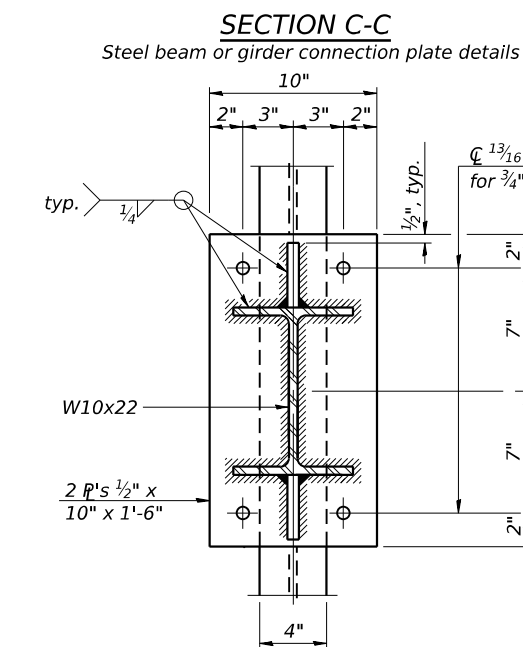
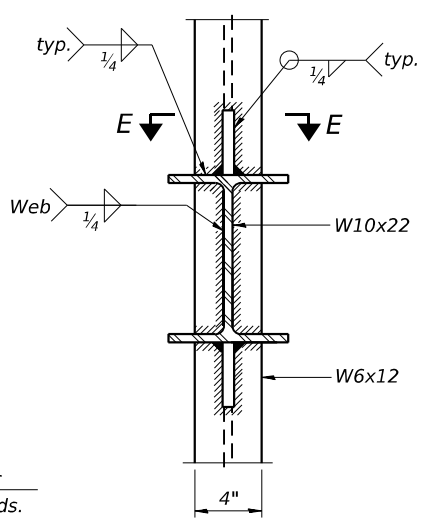
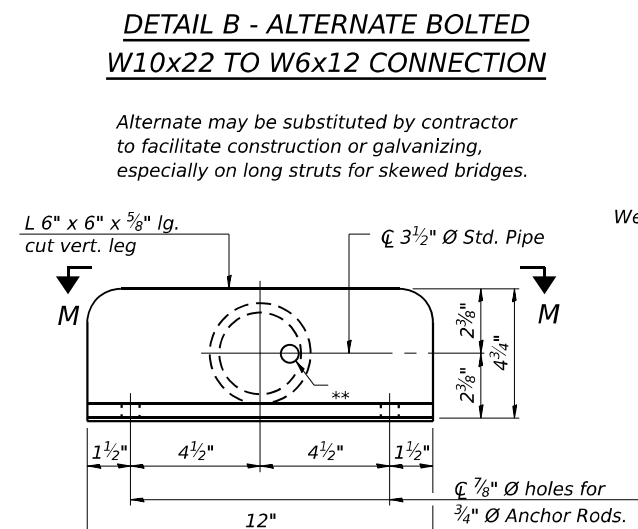
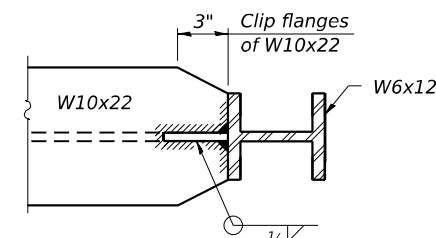
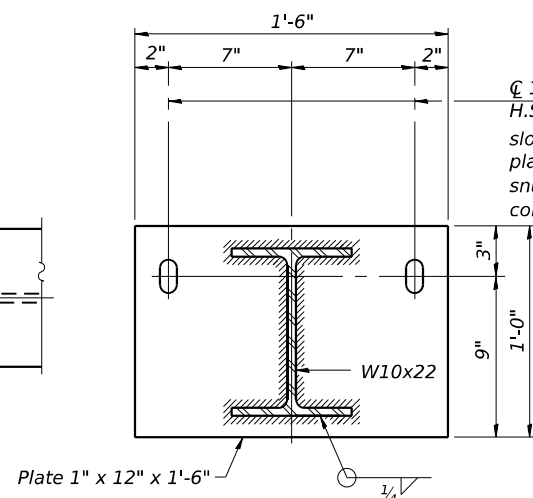
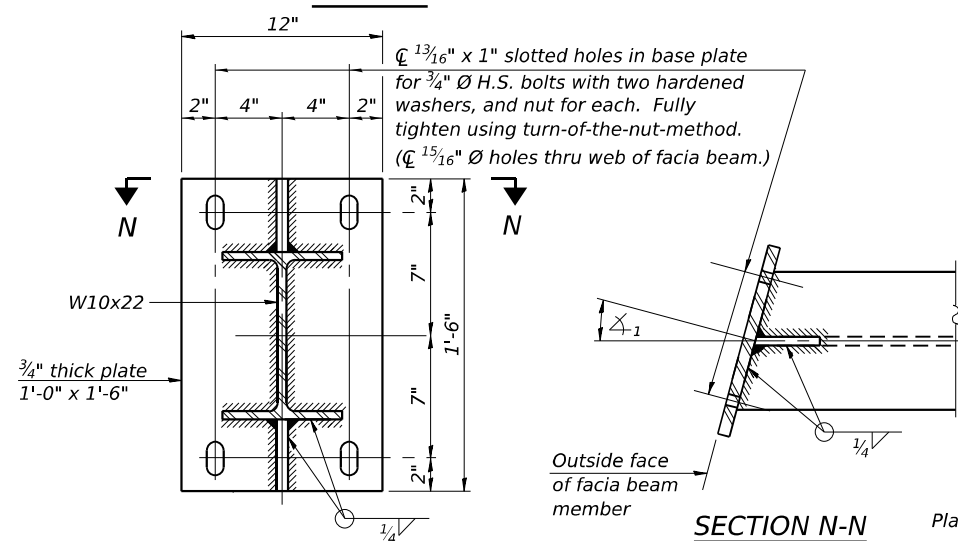
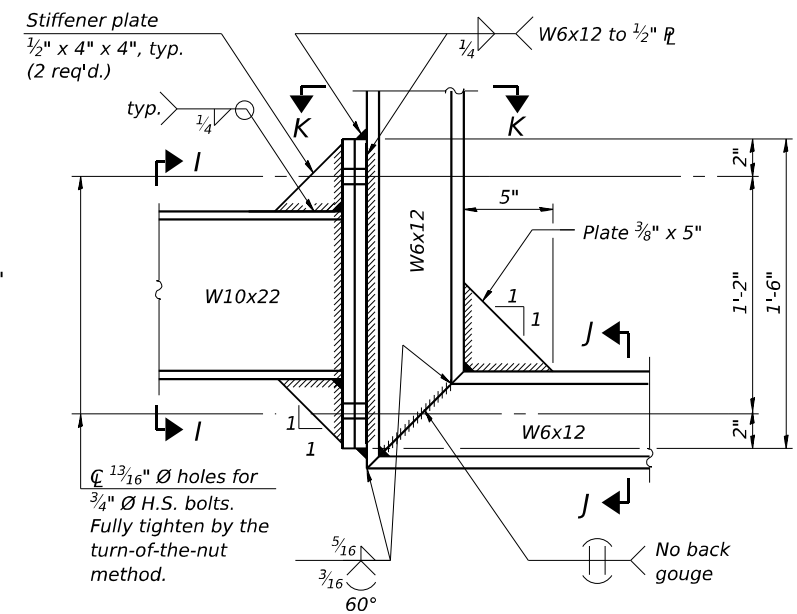
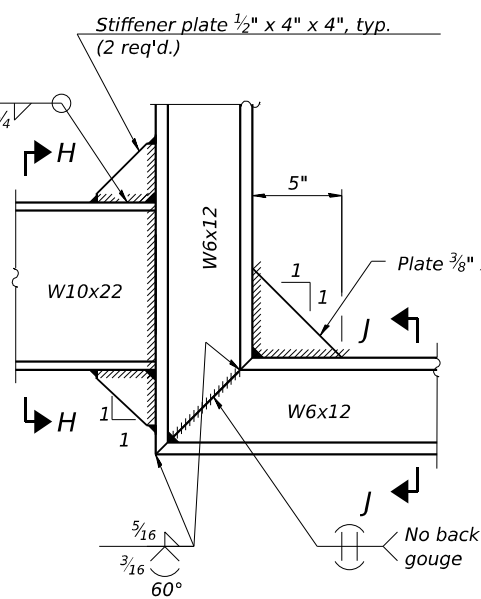
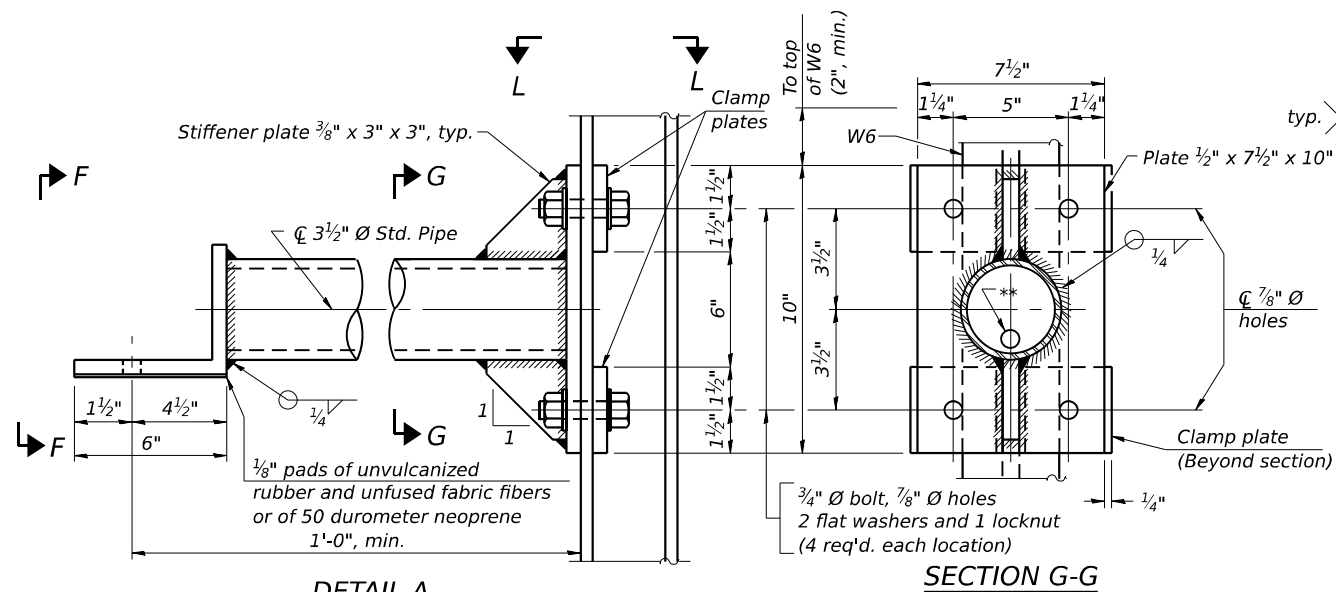
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 4-EB-046-B BRIDGE MOUNT SIGN STRUCTURE
WALKWAY AND CONNECTION DETAILS

SHEET 2 OF 4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	517
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

4/22/2025 4:01:42 PM



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 4-EB-046-B BRIDGE MOUNT SIGN STRUCTURE
CONNECTION DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R22		
ILLINOIS		FED. AID PROJECT		

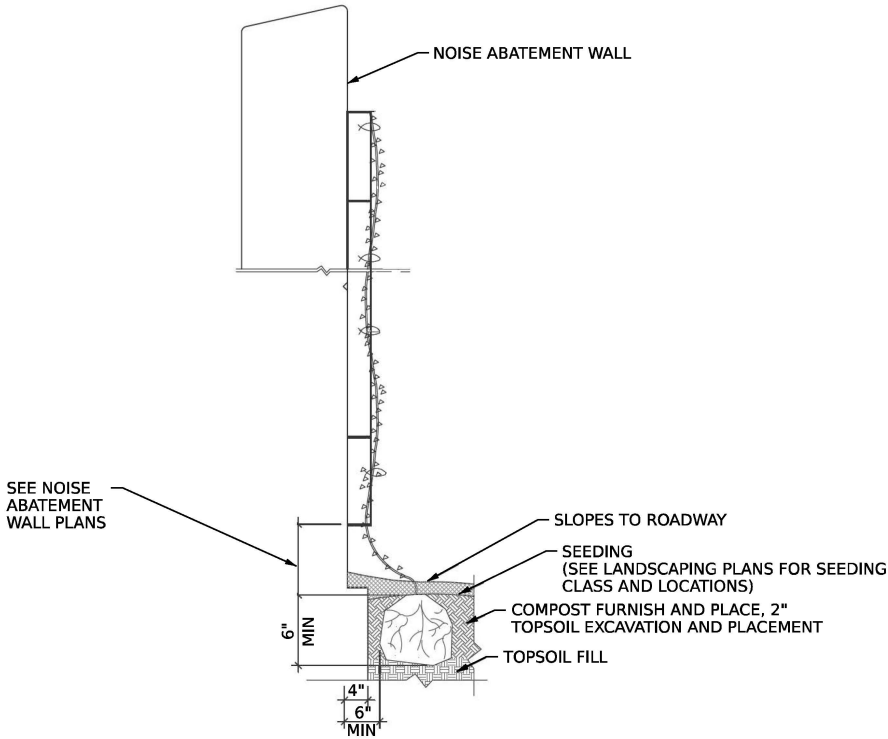
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	CHECKED - JMG	REVISED -
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PLOT DATE =	CHECKED - JMG	REVISED -

LANDSCAPING SCHEDULE

		COMPOST FURNISH AND PLACE, 2"	TOPSOIL EXCAVATION AND PLACEMENT	SEEDING, CLASS 1A	SEEDING, CLASS 1B	SEEDING, CLASS 2A	SEEDING, CLASS 4	SEEDING, CLASS 4B	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	VINE-PARTHENOCISSUS QUINQUELOIA ENGEL MANNII (ENGELMANNI VIRGINIA CREEPER), 1-GALLON POT	COARSE SAND PLACEMENT, 2"
LOCATION	STATION	SQ YD	CU YD	ACRE	ACRE	ACRE	ACRE	ACRE	POUND	POUND	SQ YD	EACH	SQ YD
I-80 MAINLINE	STATION 621+00 TO STATION 633+00	17	19	0	0.03	0	0.26	0.03	29	29	1549	75	1404
I-80 MAINLINE	STATION 633+00 TO STATION 12+00.00	191	264	0	1.16	0.34	2.44	0.48	398	398	21393	859	14133
I-80 MAINLINE	STATION 12+00.00 TO STATION 26+00.00	237	499	0	0.43	5.66	1.46	0.80	752	752	40414	1068	10938
I-80 MAINLINE	STATION 26+00.00 TO STATION 39+00.00	121	575	0	3.69	2.90	0.30	2.74	867	867	46609	544	14714
CENTER ST	STATION 11+00.00 TO STATION 26+00.00	15	285	0	0.78	2.77	1.00	0.22	429	429	23087	69	5905
CENTER ST	STATION 33+00.00 TO STATION 43+00.00	134	402	0	0.89	2.96	2.62	0.25	605	605	32525	603	13891
MARKET ST	STATION 800+16 TO STATION 803+29	0	13	0.21	0.00	0.00	0.00	0.00	19	19	1016	0	0
ILLINOIS ST	STATION 900+36 TO STATION 902+11	0	10	0.17	0.00	0.00	0.00	0.00	15	15	823	0	0
S RAYNOR AVE	STATION 1000+37 TO STATION 1001+90	0	5	0.09	0.00	0.00	0.00	0.00	8	8	436	0	0
COCHRANE AV	STATION 1009+00 TO STATION 1013+00	0	9	0.15	0.00	0.00	0.00	0.00	14	14	726	0	0
JASPER ST	STATION 2000+00 TO STATION 2002+00	0	7	0.12	0.00	0.00	0.00	0.00	11	11	581	0	0
TOTAL		715	2088	0.75	7.00	14.75	8.25	4.75	3146	3146	169158	3218	60984

LANDSCAPING NOTES:

1. VILLAGE WATER AND SEWER MAINS MAY BE LOCATED IN THE LANDSCAPE AREA. THE CONTRACTOR SHALL NOT BE ALLOWED TO PROCEED WITH ANY PLANTING WORK UNTIL ALL UTILITY OWNERS FIELD LOCATE THEIR FACILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THE ACTUAL LOCATION OF PROPOSED LANDSCAPING WILL BE ADJUSTED IN THE FIELD TO AVOID UTILITIES.
2. 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 SEPARATELY, 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.
3. THE CONTRACTOR SHALL PROCURE ALL VINE PLANTINGS WITHIN 4 WEEKS OF AWARD OF CONTRACT TO ENSURE THAT THERE WILL BE ADEQUATE QUANTITIES AVAILABLE FOR PLANTING SEASON.
4. VINES SHALL BE PLANTED ON BOTH SIDES OF THE NOISE ABATEMENT WALLS WHERE POSSIBLE.



VINE DETAIL

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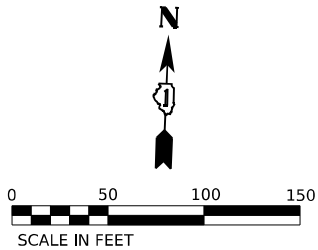
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DRAWN - AK		REVISED -	
PLOT SCALE = 100,000 ' / in.	CHECKED - AB	REVISED -	
PLOT DATE = 4/23/2025	DATE - 4/25/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING NOTES AND DETAILS
I-80

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	520
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



VINE-PARTHENOCISSUS QUINOQUEFOLIA
ENGEL MANNII (ENGELMANNII VIRGINA
CREEPER), 1-GALLON POT, 75 EACH
PLACE BACK OF WALL 2' O.C.
SEE DETAIL ON SHEET 520

EXIST R.O.W.

PROPOSED C I-80

WB I-80

EB I-80

EXIST R.O.W.

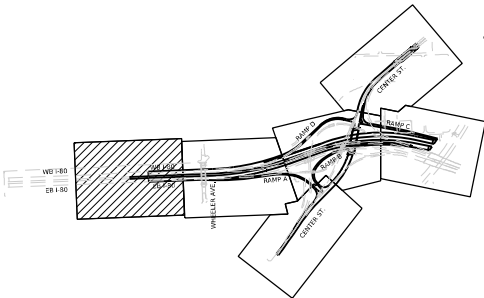
MATCHLINE STA. 633+00
SEE SHEETS 522

LANDSCAPING LEGEND

- SEEDING, CLASS 1B,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 2A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 4,
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 2"
TOPSOIL EXCAVATION AND PLACEMENT
- SEEDING, CLASS 4B,
EROSION CONTROL BLANKET,
COARSE SAND PLACEMENT, 2" AND
TOPSOIL EXCAVATION AND PLACEMENT

BEGIN PROJECT
STA. 631+50.00
PR C I-80

KEY PLAN



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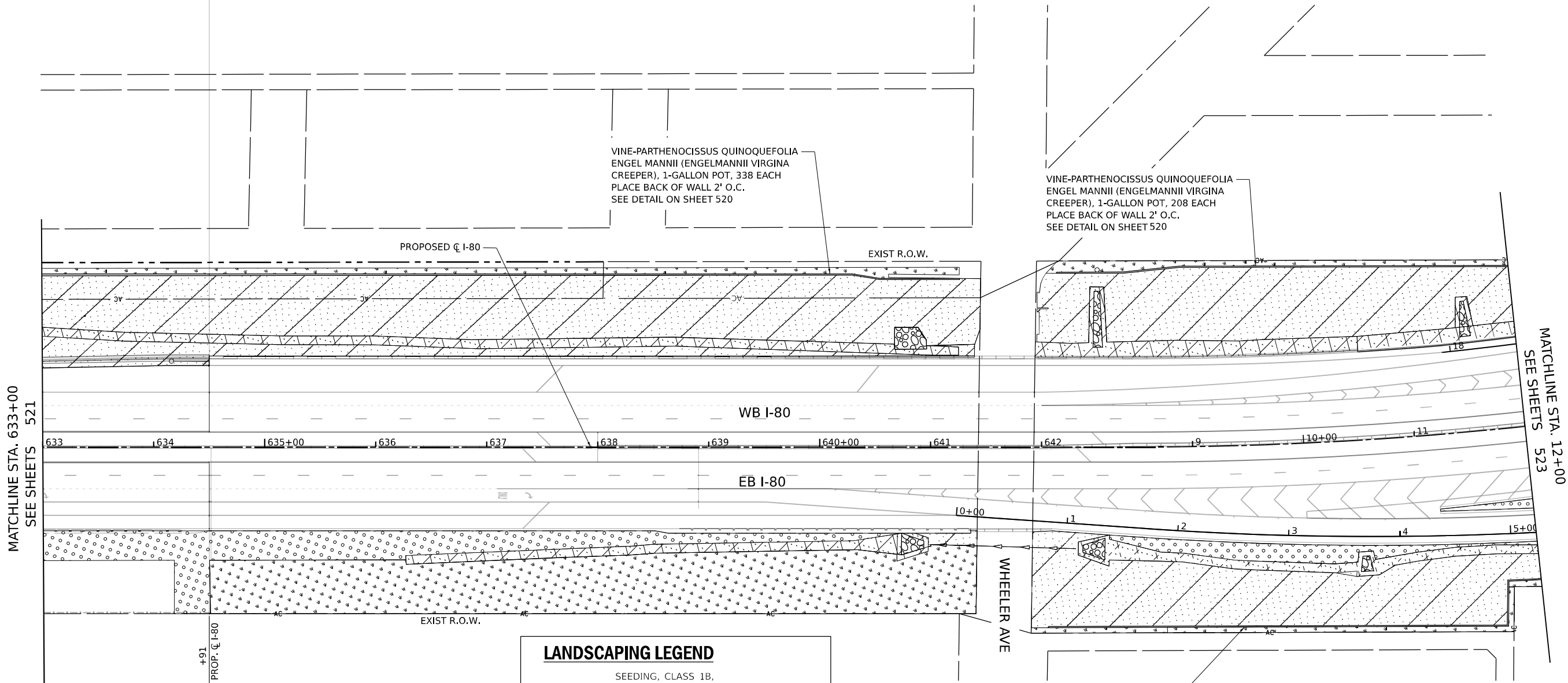
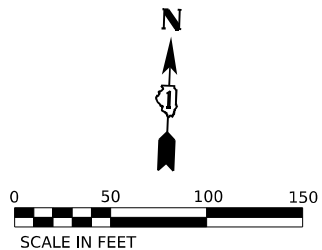
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PLOT DATE	= 4/23/2025	DATE	- 4/25/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
I-80

SCALE: 1" = 50' SHEET 01 OF 11 SHEETS STA. 621+00 TO STA. 633+00

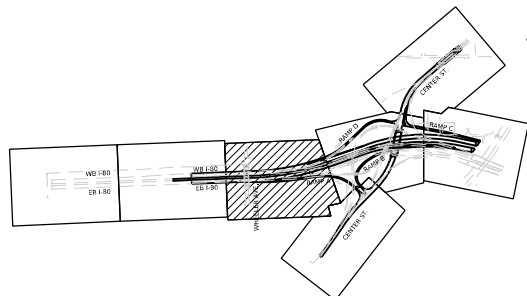
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	521
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



LANDSCAPING LEGEND

- SEEDING, CLASS 1B, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 2A, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 4, EROSION CONTROL BLANKET, AND COARSE SAND PLACEMENT, 2" TOPSOIL EXCAVATION AND PLACEMENT
- SEEDING, CLASS 4B, EROSION CONTROL BLANKET, COARSE SAND PLACEMENT, 2" AND TOPSOIL EXCAVATION AND PLACEMENT

KEY PLAN



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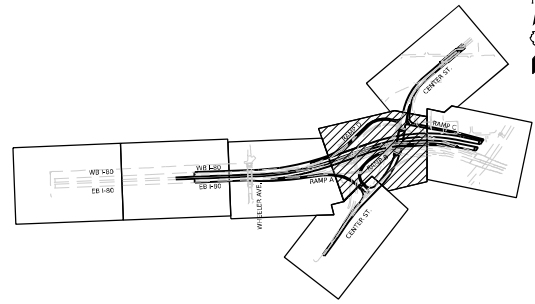
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN I-80





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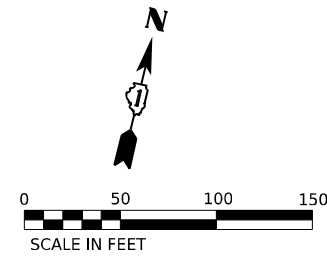
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80	FAI 80 21 INTERCHANGE	WILL	1209	522
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

KEY PLAN

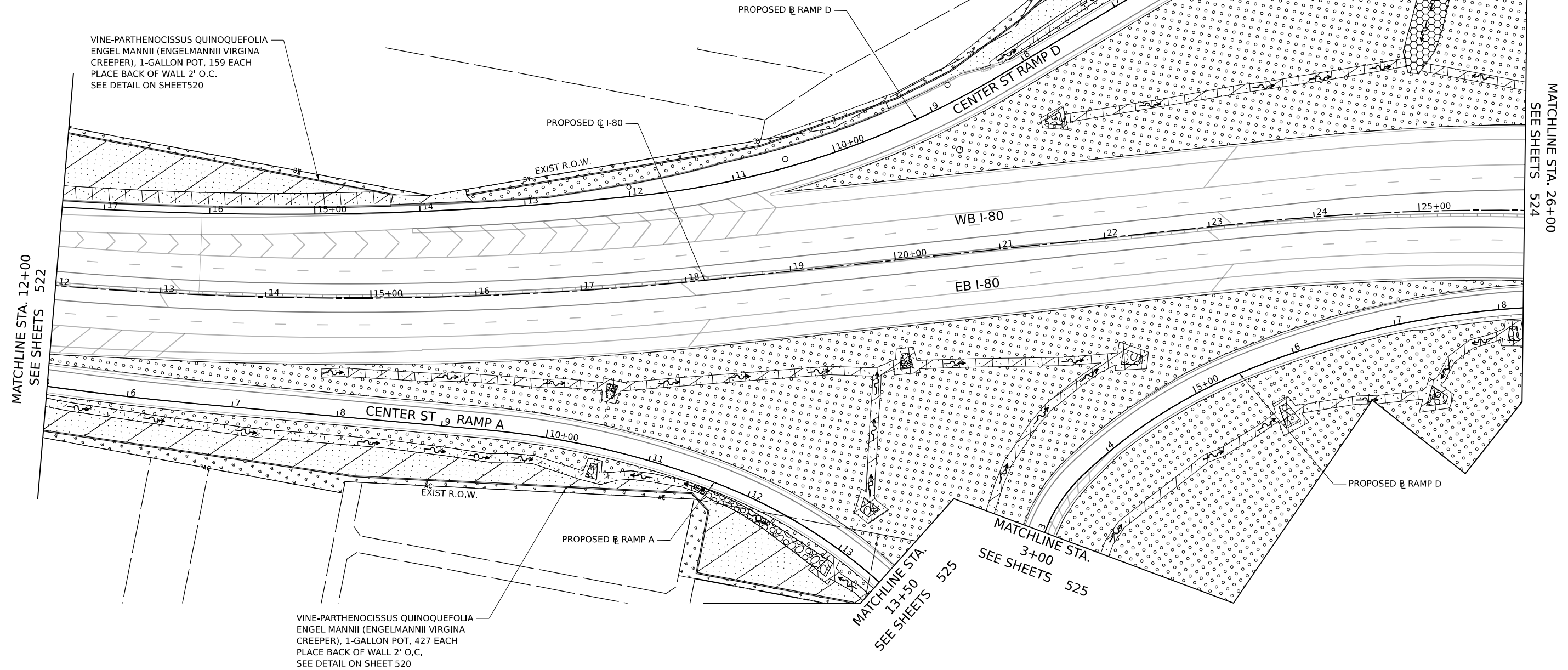


LANDSCAPING LEGEND

- | | |
|---|---|
|  | <p>SEEDING, CLASS 1B,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS</p> |
|  | <p>SEEDING, CLASS 2A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS</p> |
|  | <p>SEEDING, CLASS 4,
EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 2"
TOPSOIL EXCAVATION AND PLACEMENT</p> |
|  | <p>SEEDING, CLASS 4B,
EROSION CONTROL BLANKET,
COARSE SAND PLACEMENT, 2" AND
TOPSOIL EXCAVATION AND PLACEMENT</p> |



VINE-PARTHENOCISSUS QUINOQUEFOLIA
ENGEL MANNII (ENGELMANNII VIRGINIA
CREEPER), 1-GALLON POT, 482 EACH
PLACE BACK OF WALL 2' O.C.
SEE DETAIL ON SHEET520



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN
I-80

SCALE: 1" = 50'	SHEET 3 OF 11 SHEETS	STA. 12+00 TO STA. 26+00
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	523
		CONTRACT NO. 62R22		
		ILLINOIS FED. AID PROJECT		



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	DRAWN - AK	REVISED -
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DESIGNED	- AK
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PLOT DATE	= 4/23/2025

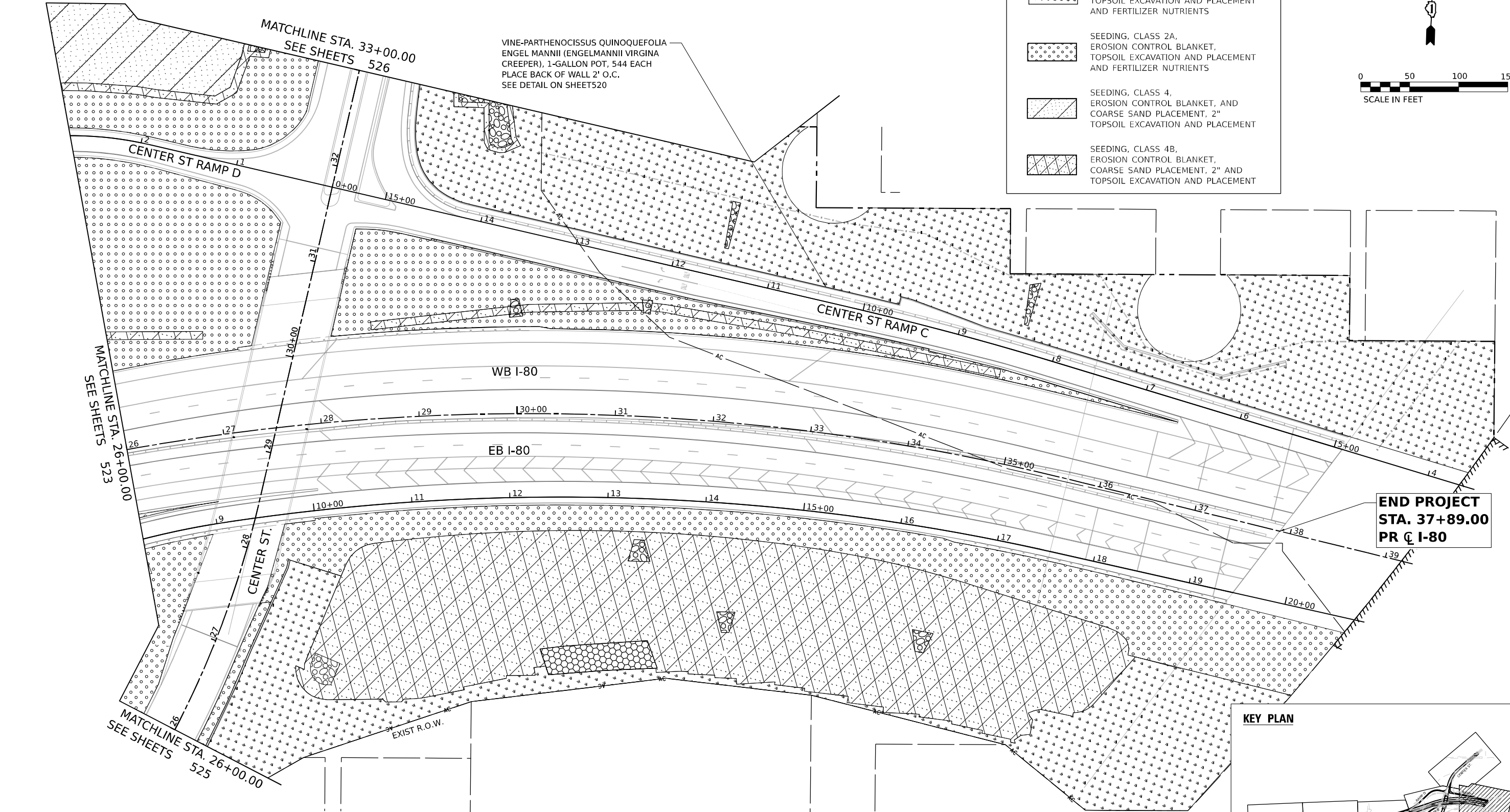
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
I-80

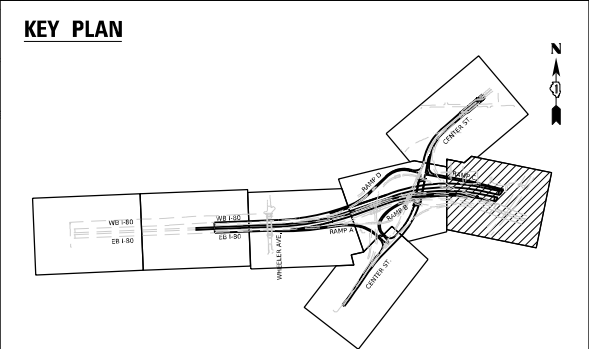
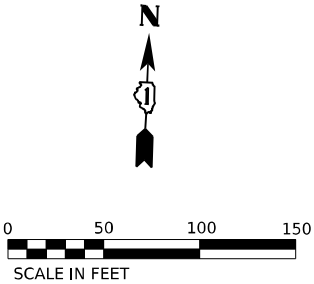
SCALE: 1" = 50' SHEET 4 OF 11 SHEETS STA. 26+00 TO STA. 39+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	524
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



LANDSCAPING LEGEND

- SEEDING, CLASS 1B, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 2A, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT AND FERTILIZER NUTRIENTS
- SEEDING, CLASS 4, EROSION CONTROL BLANKET, AND COARSE SAND PLACEMENT, 2" TOPSOIL EXCAVATION AND PLACEMENT
- SEEDING, CLASS 4B, EROSION CONTROL BLANKET, COARSE SAND PLACEMENT, 2" AND TOPSOIL EXCAVATION AND PLACEMENT



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SEEDING, CLASS 1B,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS

SEEDING, CLASS 2A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS

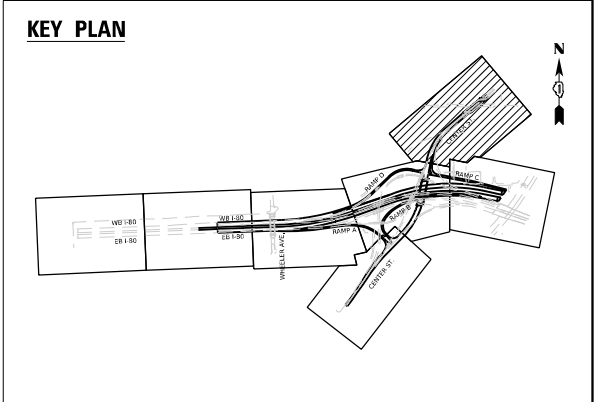
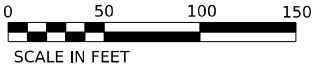
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EROSION CONTROL BLANKET, AND
COARSE SAND PLACEMENT, 2"
TOPSOIL EXCAVATION AND PLACEMENT

SEEDING, CLASS 4B,
EROSION CONTROL BLANKET,
COARSE SAND PLACEMENT, 2" AND
TOPSOIL EXCAVATION AND PLACEMENT

VINE-PARTHENOCISSUS QUINOQUEFOLIA
ENGEL MANNII (ENGELMANNII VIRGINA
CREEPER), 1-GALLON POT, 606 EACH
PLACE BACK OF WALL 2' O.C.
SEE DETAIL ON SHEET 520

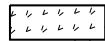
MATCHLINE STA. 42+00.00
SEE BELOW

MATCHLINE STA. 42+00.00
SEE ABOVE



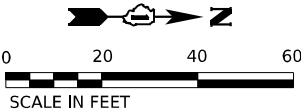
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	DRAWN - AK		CHECKED - AB		REVISED -			80	FAI 80 21 INTERCHANGE		WILL	1209	526						
	PLOT SCALE = 100,000' / in.		PLOT DATE = 4/23/2025		DATE - 4/25/2025			REVISED -		CONTRACT NO. 62R22									
										ILLINOIS FED. AID PROJECT									
								SCALE: 1" = 50'		SHEET 6	OF 11 SHEETS	STA. 33+00 TO STA. 43+00							

LANDSCAPING LEGEND



SEEDING, CLASS 1A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS

MATCHLINE STA. 84+75
SEE SHEET 527



SHELBY ST

JASPER STREET

EXIST R.O.W.

BEGIN IMPROVEMENT
STA. 803 + 81.72

MARKET STREET

KEY PLAN

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PLOT SCALE	= 40,000' / in.
PLOT DATE	= 4/23/2025

DESIGNED	- JP
DRAWN	- JP
CHECKED	- AB
DATE	- 4/25/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

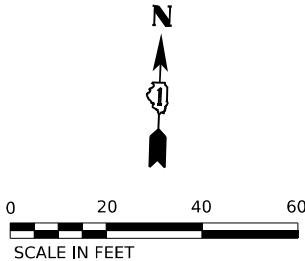
LANDSCAPING PLAN
MARKET STREET

SCALE: 1"=20' SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	527
CONTRACT NO. 62R22				
ILLINOIS		FED. AID PROJECT		

LANDSCAPING LEGEND

- 
- SEEDING, CLASS 1A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS



BEGIN IMPROVEMENT
STA. 902 + 72.00

JASPER STREET

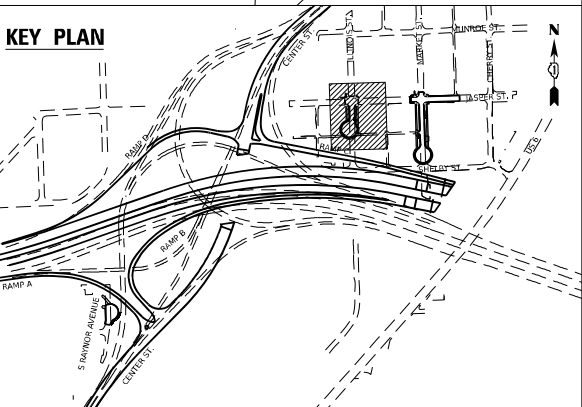
ILLINOIS STREET

PR R.O.W.

EXIST R.O.W.

EXIST R.O.W.

KEY PLAN



MATCHLINE STA. 84+75
SEE SHEET 526



USER NAME	= jschumann
DESIGNED	-
DRAWN	-
PLOT SCALE	= 40,000' / in.
CHECKED	-
DATE	= 4/23/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

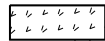
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
ILLINOIS STREET

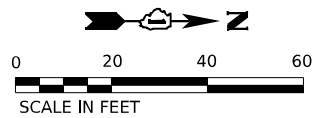
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	528
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

LANDSCAPING LEGEND



SEEDING, CLASS 1A,
EROSION CONTROL BLANKET,
TOPSOIL EXCAVATION AND PLACEMENT
AND FERTILIZER NUTRIENTS



BEGIN IMPROVEMENT
STA. 1000 + 36.60

WOODS AVENUE

EXIST R.O.W.

EXIST R.O.W.

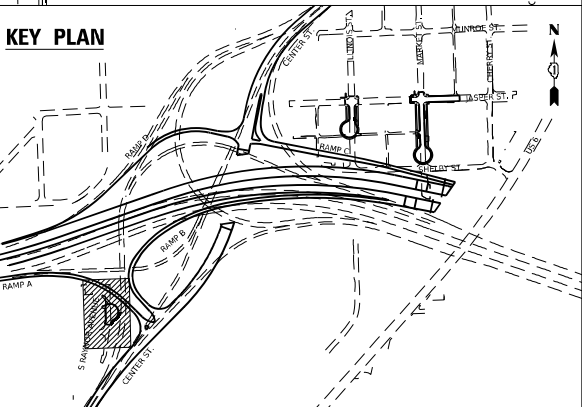
1000+00

1001

1002

S RAYNOR AVENUE

KEY PLAN



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USER NAME	= jschumann
PLOT SCALE	= 40,000' / in.
PLOT DATE	= 4/23/2025

DESIGNED - JP
DRAWN - JP
CHECKED - AB
DATE - 4/25/2025

REVISED -
REVISED -
REVISED -
REVISED -

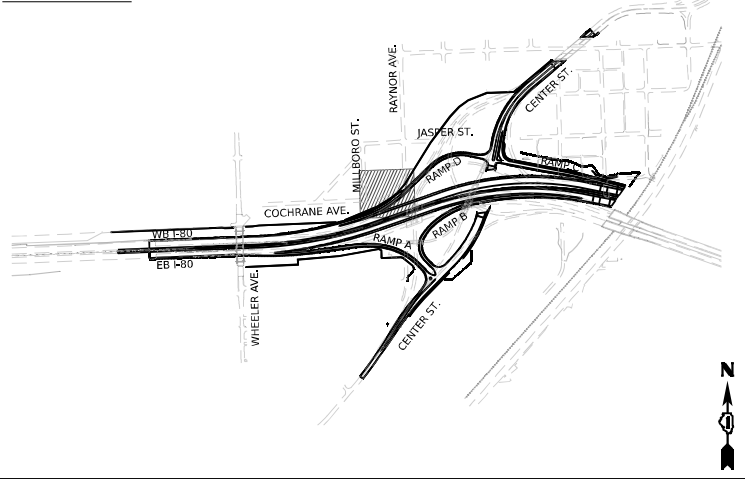
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
SOUTH RAYNOR AVENUE

SCALE: 1"=20' SHEET 9 OF 11 SHEETS STA. TO STA.

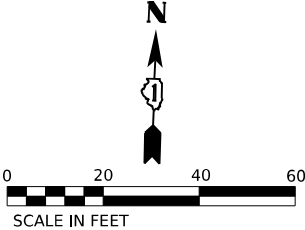
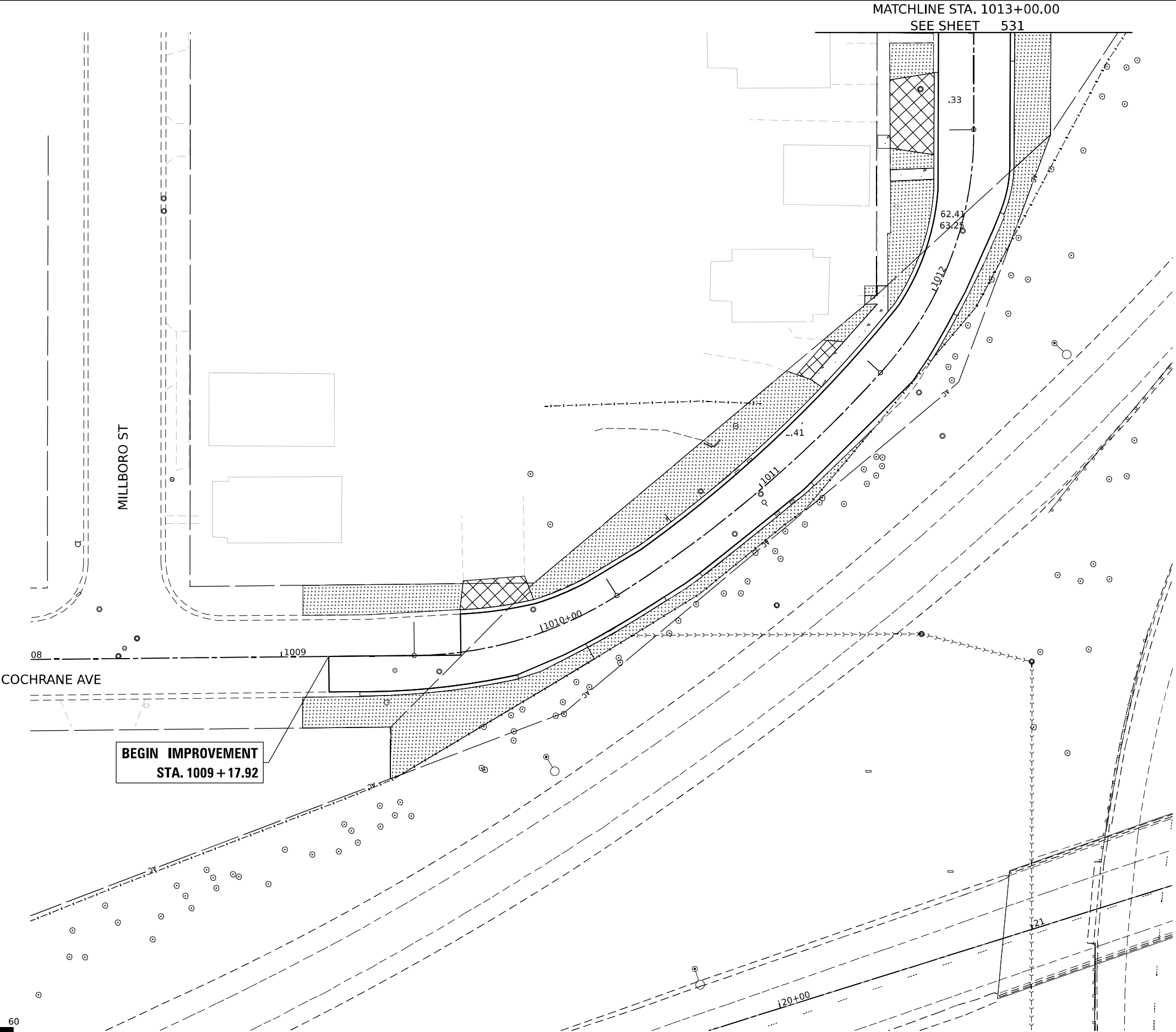
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	529
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

KEY PLAN



LANDSCAPING LEGEND

- SEEDING, CLASS 1A,
- EROSION CONTROL BLANKET,
- TOPSOIL EXCAVATION AND PLACEMENT
- AND FERTILIZER NUTRIENTS



Model: Default
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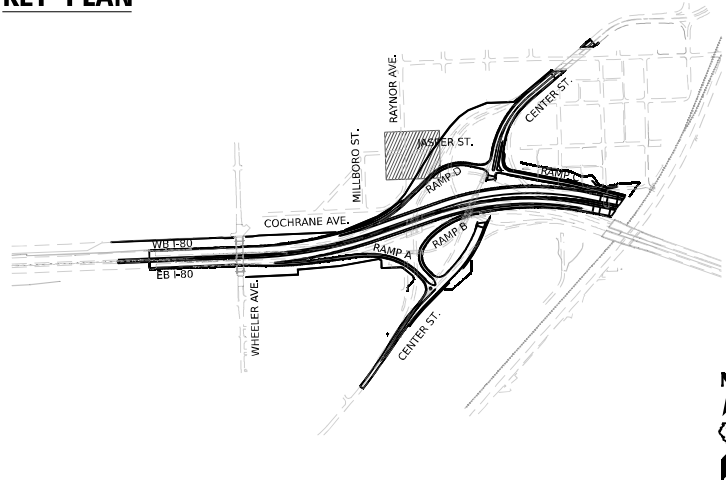
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
COCHRANE AVE

SCALE: 1"=20' SHEET 10 OF 11 SHEETS STA. 1008+00.00 TO STA. 1013+00.00

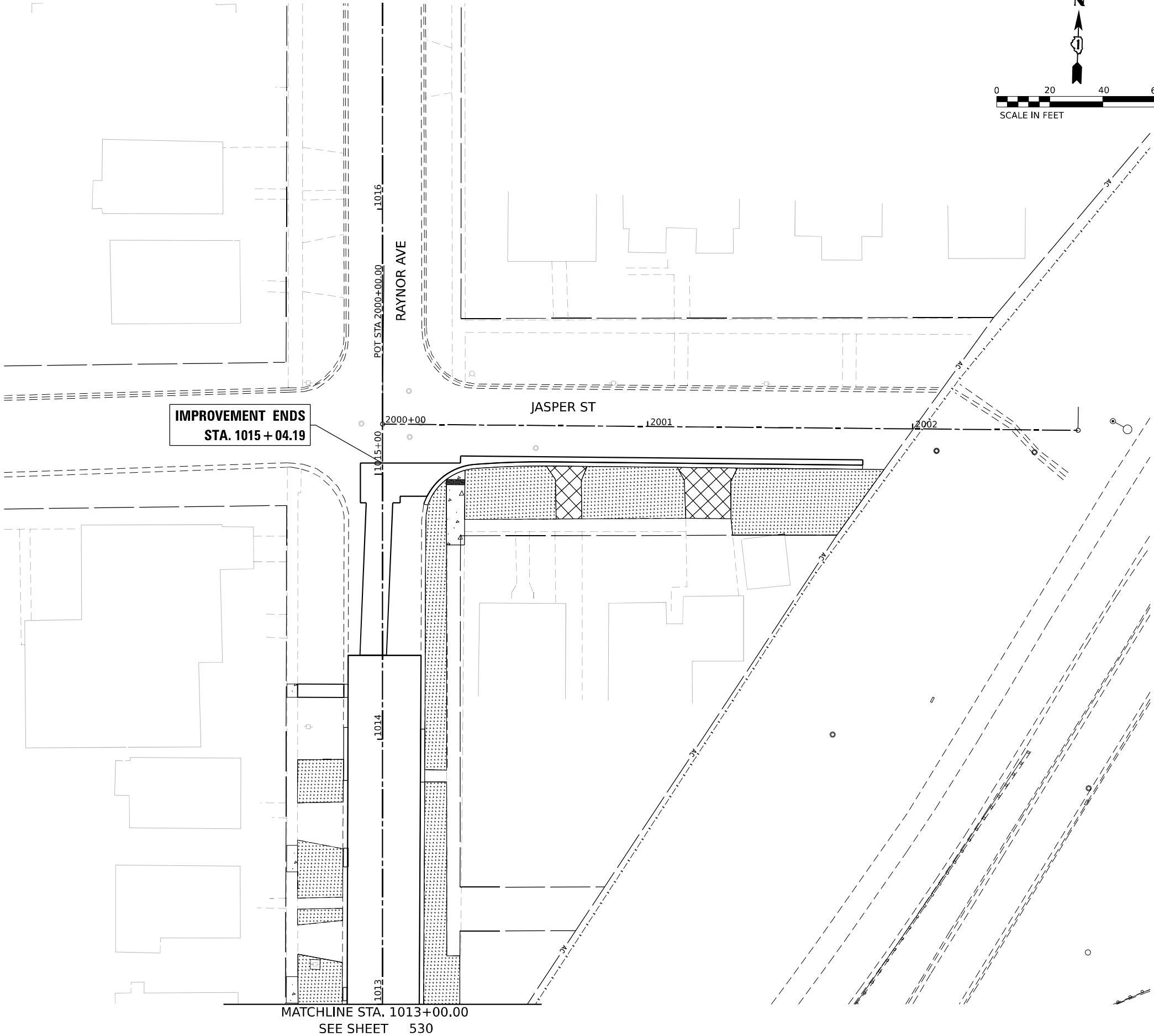
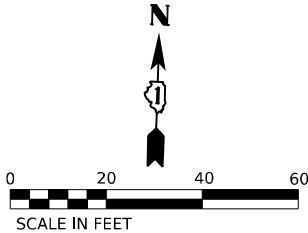
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	530
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

KEY PLAN



LANDSCAPING LEGEND

- SEEDING, CLASS 1A, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT AND FERTILIZER NUTRIENTS



IMPROVEMENT ENDS
STA. 1015 + 04.19

MATCHLINE STA. 1013+00.00
SEE SHEET 530

Model: Default
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USER NAME	= jschumann	DESIGNED -	AK	REVISED -	
DRAWN -	AK	REVISED -			
PLOT SCALE	= 40,000' / in.	CHECKED -	AB	REVISED -	
PLOT DATE	= 4/23/2025	DATE	= 4/25/2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
JASPER ST

SCALE: 1"=20' SHEET 11 OF 11 SHEETS STA. 1013+00.00 TO STA. 2000+00.00 TO STA. 1017+00.00 TO STA. 2002+62.41

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	531
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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LIGHTING AND ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	EXISTING LIGHTING UNIT TO REMAIN
	EXISTING STRUCTURE MOUNTED LIGHTING UNIT TO REMAIN
	EXISTING WALL MOUNTED UNIT TO BE REMOVED. EXISTING POLE AND MAST ARM SHALL NOT BE SALVAGED, EXISTING LUMINAIRE SHALL BE SALVAGED.
	EXISTING GROUND MOUNTED UNIT TO BE REMOVED. EXISTING FOUNDATION, POLE, MAST ARM, AND T-BASE SHALL NOT BE SALVAGED, EXISTING LUMINAIRE SHALL BE SALVAGED.
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON BREAKAWAY DEVICE CONCRETE FOUNDATION, 47.5 FT M.H. U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (240 VAC LINE TO NEUTRAL) U.N.O.
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON PROPOSED PARAPET OR BARRIER FOUNDATION, 47.5 FT M.H. U.N.O., 10 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (240 VAC LINE TO NEUTRAL) U.N.O.
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON PROPOSED PARAPET OR BARRIER FOUNDATION, 35 FT M.H., 10 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (240 VAC LINE TO NEUTRAL) U.N.O.
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON PROPOSED MEDIAN FOUNDATION, 47.5 FT M.H. U.N.O., 6 FT TWIN ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION I (240 VAC LINE TO NEUTRAL) U.N.O.
	PROPOSED IDOT LIGHTING UNIT MOUNTED ON PROPOSED TRAFFIC SIGNAL POLE, 45 FT M.H. U.N.O., 15 FT MAST ARM, LUMINAIRE TO BE LED, HORIZONTAL MOUNT, OUTPUT DESIGNATION H (120 VAC) U.N.O.
	TEMPORARY LIGHTING UNIT, 60 FT WOOD POLE, 15 FT MAST ARM LED LUMINAIRE AT 50 FT MOUNTING HEIGHT, OUTPUT DESIGNATION H
	EXISTING TEMPORARY LIGHTING UNIT FROM PREVIOUS STAGE
	TEMPORARY LIGHTING UNIT TO BE REMOVED
	TEMPORARY WOOD POLE, CLASS 4, 60 FT
	EXISTING TEMPORARY WOOD POLE, TYPE AND SIZE AS NOTED
	PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
	EXISTING IDOT LIGHTING CONTROLLER TO REMAIN
	EXISTING IDOT LIGHTING CONTROLLER TO BE REMOVED, NO SALVAGED
	PROPOSED IDOT LIGHTING CONTROLLER, TYPE AS NOTED
	EXISTING ELECTRIC UTILITY SERVICE TO BE REMOVED
	PROPOSED ELECTRIC UTILITY SERVICE
	TEMPORARY ELECTRIC UTILITY SERVICE
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED, NO SALVAGE
	PROPOSED UNDERPASS LUMINAIRE, LED, OUTPUT DESIGNATION D (240 VAC) U.N.O.

ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
ATS	ATTACHED TO STRUCTURE
B.O.C.	BACK OF CURB
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
COMED	COMMONWEALTH EDISON COMPANY
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
EX.	EXISTING
ECA	ELECTRIC CABLE ASSEMBLY
EIS	EMBEDDED IN STRUCTURE
E.O.P.	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LED	LIGHT EMITTING DIODE
LP	LIGHT POLE
M	METER
MA	MAST ARM
MC	MULTI-CONDUCTOR
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NESC	NATIONAL ELECRIC SAFETY CODE
NO. #	NUMBER
N.T.S.	NOT TO SCALE
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T/F	TOP OF FOUNDATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
UGC, GS	UNDERGROUND CONDUCT, GALVANIZED STEEL
VAC	VOLTS, ALTERNATING CURRENT
W	WATTS
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

CALL-OUT SAMPLE	
DEFINITION AND EXAMPLE	

LIGHTING AND ELECTRICAL LEGEND (CONT.)	
SYMBOL	
	EXISTING UNDERGROUND UNIT DUCT TO BE ABANDONED IN PLACE
	TEMPORARY AERIAL CABLE TO BE REMOVED
	EXISTING CONDUIT ATTACHED TO STRUCTURE
	EXISTING UNIT DUCT
	EXISTING UNIT DUCT IN EXISTING UNDERGROUND CONDUIT
	EXISTING AERIAL CABLE
	PROPOSED AERIAL CABLE, SIZE AND TYPE AS NOTED
	PROPOSED CABLE IN PVC CONDUIT SCHEDULE 40, EMBEDDED IN STRUCTURE, SIZE AS NOTED
	PROPOSED CONDUIT ATTACHED TO STRUCTURE, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT, SIZE AND TYPE AS NOTED
	PROPOSED UNIT DUCT IN UNDERGROUND 4" DIA. PVC SCHEDULE 80 CONDUIT.

GENERAL NOTES

- THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL CONTACT MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES 773-287-7672.
- THE CONTRACTOR SHALL CONTACT FOLLOWING COMED REPRESENTATIVE FOR ELECTRIC SERVICE COORDINATION: ARIEL.HUGHES@EXELONCORP.COM (779)231-0442
PROPOSED IDOT CONTROLLER X (L0765):
- PAVEMENT OPEN TO TRAFFIC SHALL REMAIN ILLUMINATED UNTIL IT IS CLOSED. ROADWAYS SHALL BE ILLUMINATED PRIOR TO OPENING TO TRAFFIC.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AIR TRAFFIC AND ADJOINING COMMERCIAL AREAS.
- TEMPORARY AERIAL CABLES OVER THE ROADWAY SHALL HAVE A MINIMUM CLEARANCE OF 18 FEET.

IDOT-D1 STANDARDS:

STANDARD NO.	TITLE
BE-206	LIGHTING CONTROLLER, BASE MOUNTED. 480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION
BE-220	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT
BE-240	COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC
BE-301	LIGHT POLE FOUNDATION, 40' TO 47.5' M.H. 15" BOLT CIRCLE
BE-400	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT
BE-402	ALUMINUM LIGHT POLE 35'-0" (10.668 m) MOUNTING HEIGHT
BE-701	LUMINAIRE SAFETY CABLE ASSEMBLY
BE-702	MISC. ELECTRICAL DETAILS SHEET A
BE-703	MISC. ELECTRICAL DETAILS SHEET B
BE-800	TEMPORARY LIGHT POLE DETAILS
BE-801	TEMPORARY AERIAL CABLE INSTALLATION
BE-901	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS

I-80 CORRIDOR DETAILS:

24" (610 mm) DIA. LIGHT POLE FOUNDATION INTEGRAL WITH DOUBLE FACE BARRIER WALL
LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL 15" (381 mm) BOLT CIRCLE

IDOT HIGHWAY STANDARDS:

812001-01 RACEWAY EMBEDDED IN STRUCTURE

PROJECT COMED REPRESENTATIVE:

ARIEL HUGHES - ARIEL.HUGHES@EXELONCORP.COM (779)231-0442



USER NAME = VGURSKAS	DESIGNED - VG
PLOT SCALE =	CHECKED - RP
PLOT DATE = 6/9/2025	DATE - 4/25/2025

REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING LEGEND AND GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	532
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

LT-01

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USER NAME = VGURSKAS	DESIGNED - VG	REVISED -
	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 0.167' / in.	CHECKED - RP	REVISED -
PLOT DATE = 6/9/2025	DATE - 4/25/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITES

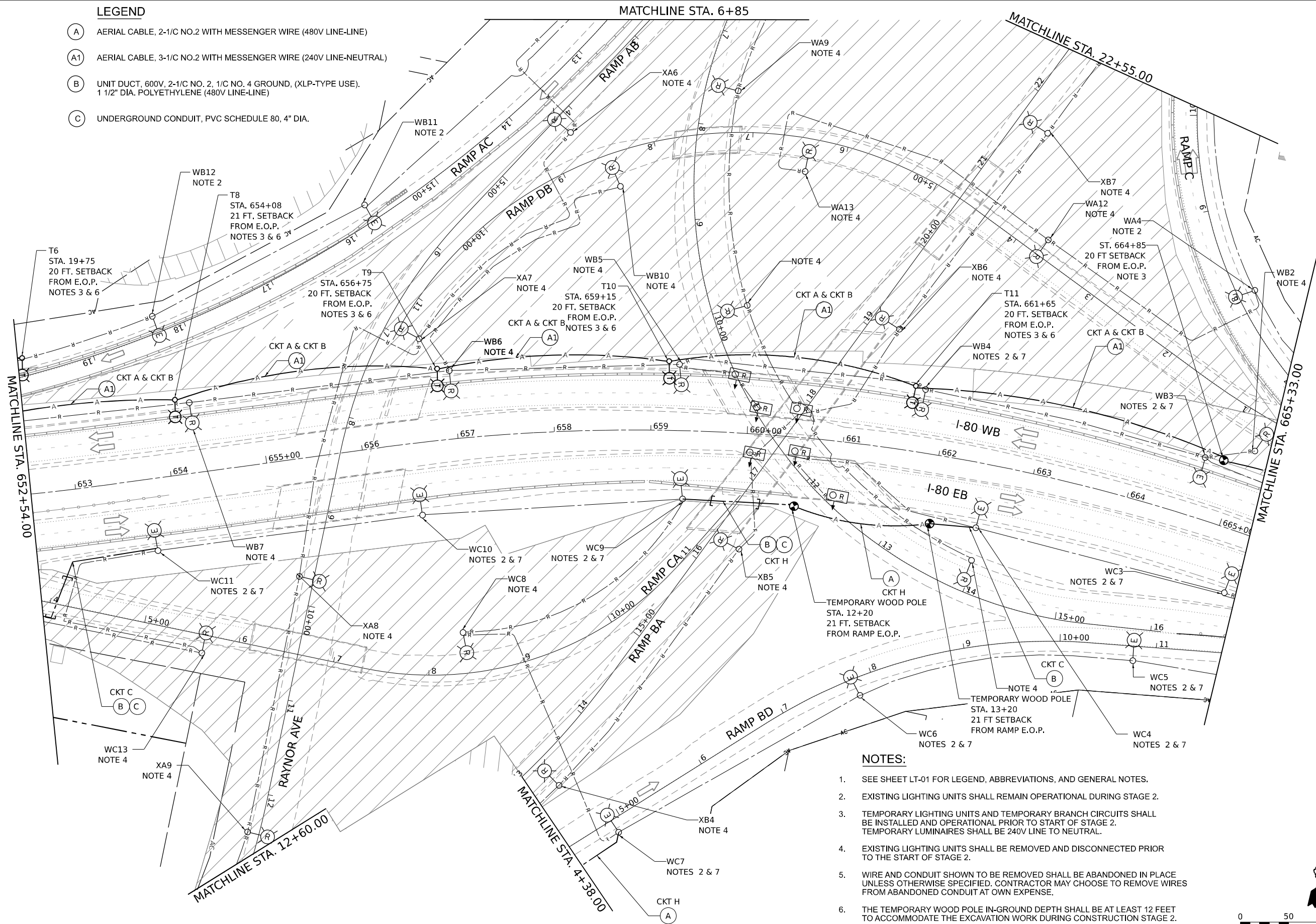
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	533
CONTRACT NO. 62R22				
		ILLINOIS	FED. AID PROJECT	

ITEM	UNIT	TOTAL QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	260
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	1,116
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	745
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	45
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., STAINLESS STEEL	FOOT	40
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	2,710
CONDUIT EMBEDDED IN STRUCTURE, 3" DIA., PVC	FOOT	30
CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	2,600
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	14
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	5
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	9
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	3
UNIT DUCT, 600V, 2-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	EACH	945
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	11,935
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2,825
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	5,705
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	17,115
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	915
AERIAL CABLE, 2-1/C NO. 2 WITH MESSENGER WIRE	FOOT	1,044
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	6,767
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	52
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION I	EACH	28
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D	EACH	14
LIGHT POLE, ALUMINUM, 35 FT. M.H., 10 FT. MAST ARM	EACH	2
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 10 FT. MAST ARM	EACH	13
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	33
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-6 FT. MAST ARMS	EACH	14
LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	22
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	297
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	33
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	22
REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	64
REMOVAL OF POLE FOUNDATION	EACH	64
REMOVAL OF LIGHTING CONTROLLER	EACH	2
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	2
REMOVAL OF LUMINAIRE, SALVAGE	EACH	66
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL), RADIO SCADA, FIBER OPTIC	EACH	1
TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED, 480 VOLT, 200 AMP	EACH	1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	24
TEMPORARY ELECTRIC SERVICE INSTALLATION	EACH	1
JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 20" X 13" X 12"	EACH	4
TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	22
COMBINATION LIGHTING CONTROLLER	EACH	2
REMOVE TEMPORARY WOOD POLE	EACH	8
TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	8
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL	EACH	15
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24" DIAMETER	FOOT	126
REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	8
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	82

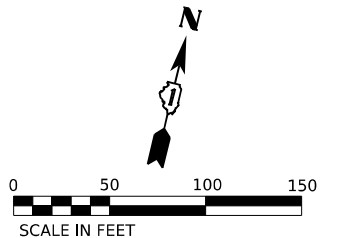
LEGEND

- (A) AERIAL CABLE, 2-1/C NO.2 WITH MESSENGER WIRE (480V LINE-LINE)
- (A1) AERIAL CABLE, 3-1/C NO.2 WITH MESSENGER WIRE (240V LINE-NEUTRAL)
- (B) UNIT DUCT, 600V, 2-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE).
1 1/2" DIA. POLYETHYLENE (480V LINE-LINE)
- (C) UNDERGROUND CONDUIT, PVC SCHEDULE 80, 4" DIA.



NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL DURING STAGE 2.
- TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO START OF STAGE 2. TEMPORARY LUMINAIRES SHALL BE 240V LINE TO NEUTRAL.
- EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED PRIOR TO THE START OF STAGE 2.
- WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.
- THE TEMPORARY WOOD POLE IN-GROUND DEPTH SHALL BE AT LEAST 12 FEET TO ACCOMMODATE THE EXCAVATION WORK DURING CONSTRUCTION STAGE 2.
- THE CONTRACTOR SHALL ENSURE THAT HPS LUMINAIRES ARE CONNECTED TO A 2-POLE BREAKER IN THE TEMPORARY LIGHTING CABINET AND LUMINAIRES SHALL OPERATE AT 480V.



LT-05

SINGH
SINGH & ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = mgravida
DESIGNED - VG
DRAWN - VN/MAG
PLOT SCALE = 100,000' / in.
CHECKED - RP
PLOT DATE = 4/24/2025
DATE = 4/25/2025

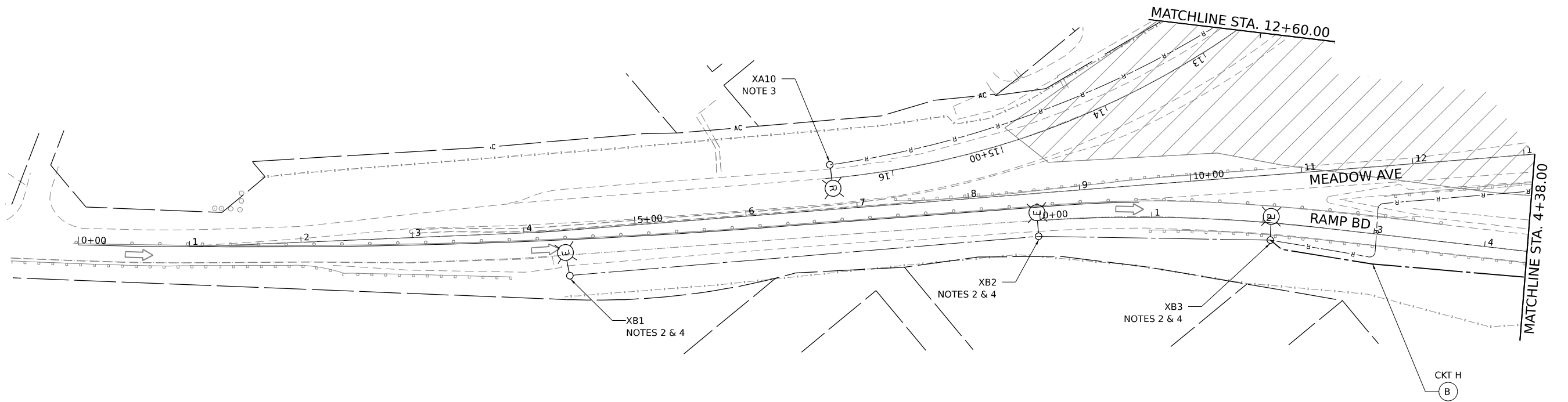
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND TEMPORARY LIGHTING PLAN - STAGE 2
I-80 AT CENTER STREET

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	536
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

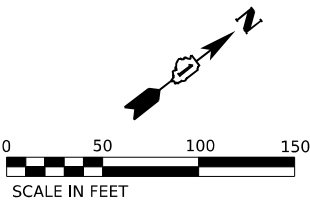


LEGEND

- (A) AERIAL CABLE, 2-1/C NO.2 WITH MESSENGER WIRE (480V, LINE-LINE)
- (B) UNIT DUCT, 600V, 2-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE). 1 1/2" DIA. POLYETHYLENE (480V, LINE-LINE)
- (C) UNDERGROUND CONDUIT, PVC SCHEDULE 80, 4" DIA.

NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- EXISTING LIGHTING UNIT SHALL REMAIN OPERATIONAL DURING STAGE 2.
- EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED.
- THE CONTRACTOR SHALL ENSURE THAT HPS LUMINAIRES ARE CONNECTED TO A 2-POLE BREAKER IN THE TEMPORARY LIGHTING CABINET AND LUMINAIRES SHALL OPERATE AT 480V.



LT-07



USER NAME = mgravida	DESIGNED - VG	REVISED -
	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - RP	REVISED -
PLOT DATE = 4/24/2025	DATE - 4/25/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

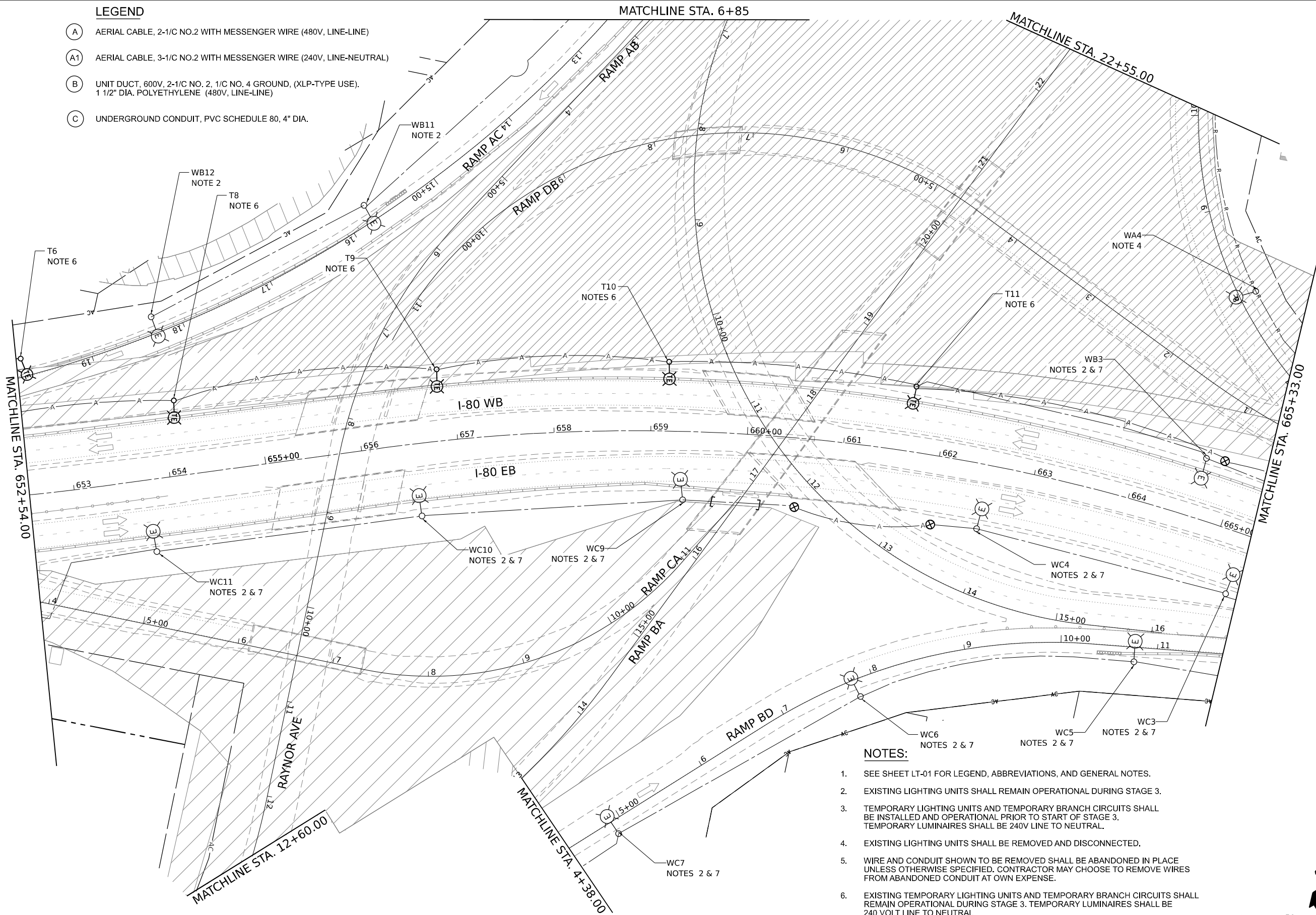
REMOVAL AND TEMPORARY LIGHTING PLAN – STAGE 2
I-80 AT CENTER STREET

SCALE: 1"=50" SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	538
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

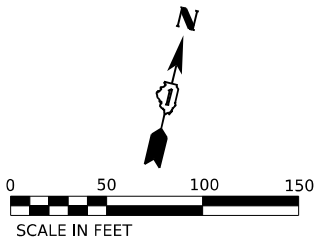
LEGEND

- (A) AERIAL CABLE, 2-1/C NO.2 WITH MESSENGER WIRE (480V, LINE-LINE)
- (A1) AERIAL CABLE, 3-1/C NO.2 WITH MESSENGER WIRE (240V, LINE-NEUTRAL)
- (B) UNIT DUCT, 600V, 2-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE).
1 1/2" DIA. POLYETHYLENE (480V, LINE-LINE)
- (C) UNDERGROUND CONDUIT, PVC SCHEDULE 80, 4" DIA.



NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL DURING STAGE 3.
- TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO START OF STAGE 3. TEMPORARY LUMINAIRES SHALL BE 240V LINE TO NEUTRAL.
- EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED.
- WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.
- EXISTING TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL REMAIN OPERATIONAL DURING STAGE 3. TEMPORARY LUMINAIRES SHALL BE 240 VOLT LINE TO NEUTRAL.
- THE CONTRACTOR SHALL ENSURE THAT HPS LUMINAIRES ARE CONNECTED TO A 2-POLE BREAKER IN THE TEMPORARY LIGHTING CABINET AND LUMINAIRES SHALL OPERATE AT 480V.



LT-11



USER NAME	= mgravida
DESIGNED	- VG
DRAWN	- VN/MAG
PLOT SCALE	= 100,000' / in.
CHECKED	- RP
PLOT DATE	= 4/24/2025
DATE	- 4/25/2025

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND TEMPORARY LIGHTING PLAN – STAGE 3
I-80 AT CENTER STREET

SCALE: 1"=50" SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	542
CONTRACT NO. 62R22				
ILLINOIS		FED. AID PROJECT		

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SINGH + ASSOCIATES INC.
CONSULTING ENGINEERS



USER NAME	= ngarvda	DESIGNED	- VG	REVISED	-
DRAWN	- VN/MAG	REVIS	-	REVISED	-
PLOT SCALE	= 100,000 ' / in.	CHECKED	- RP	REVISED	-
PLOT DATE	= 4/24/2025	DATE	- 4/25/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND TEMPORARY LIGHTING PLAN - STAGE 3
I-80 AT CENTER STREET

SCALE: 1"=50" SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	545
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

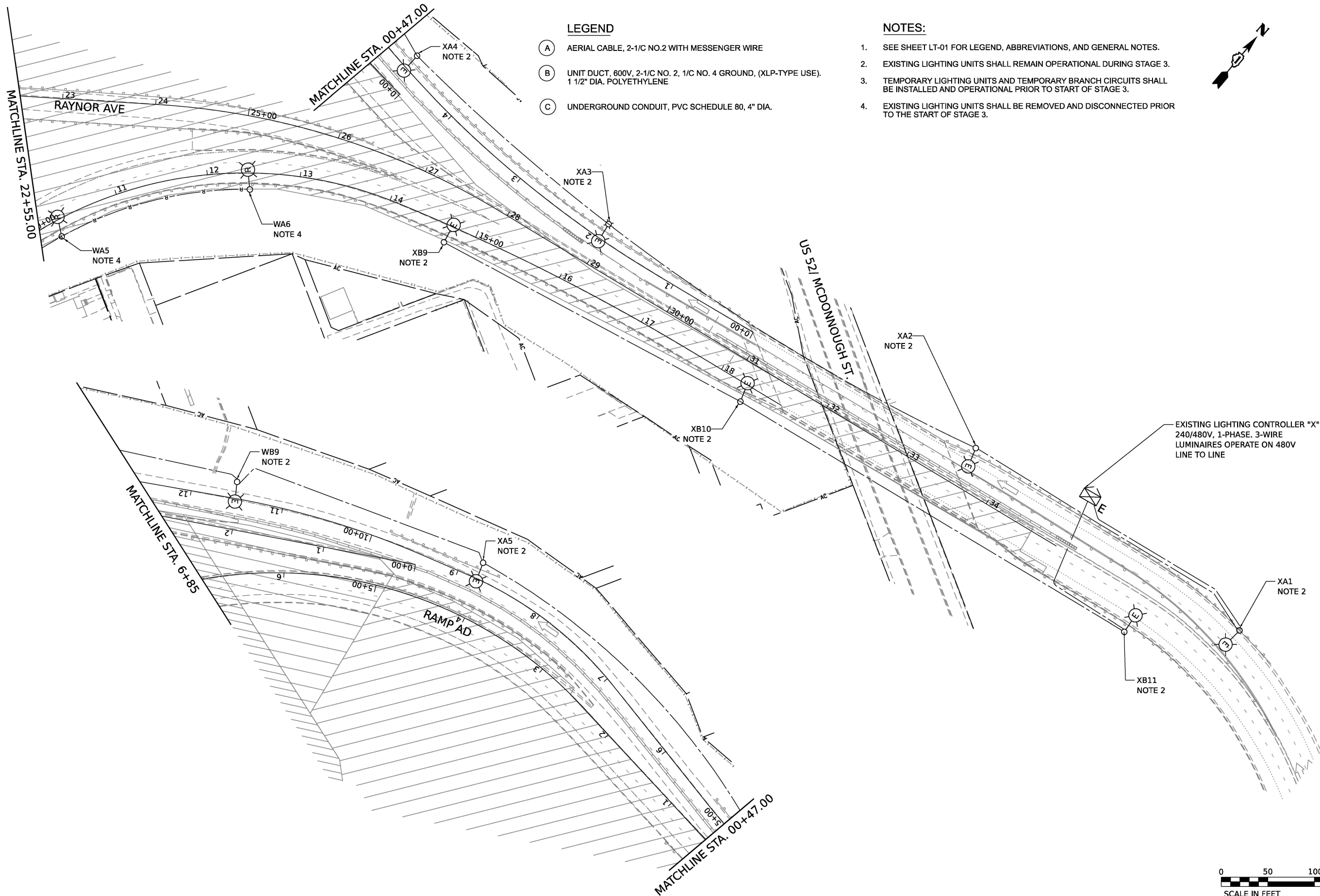
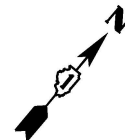
LT-14

LEGEND

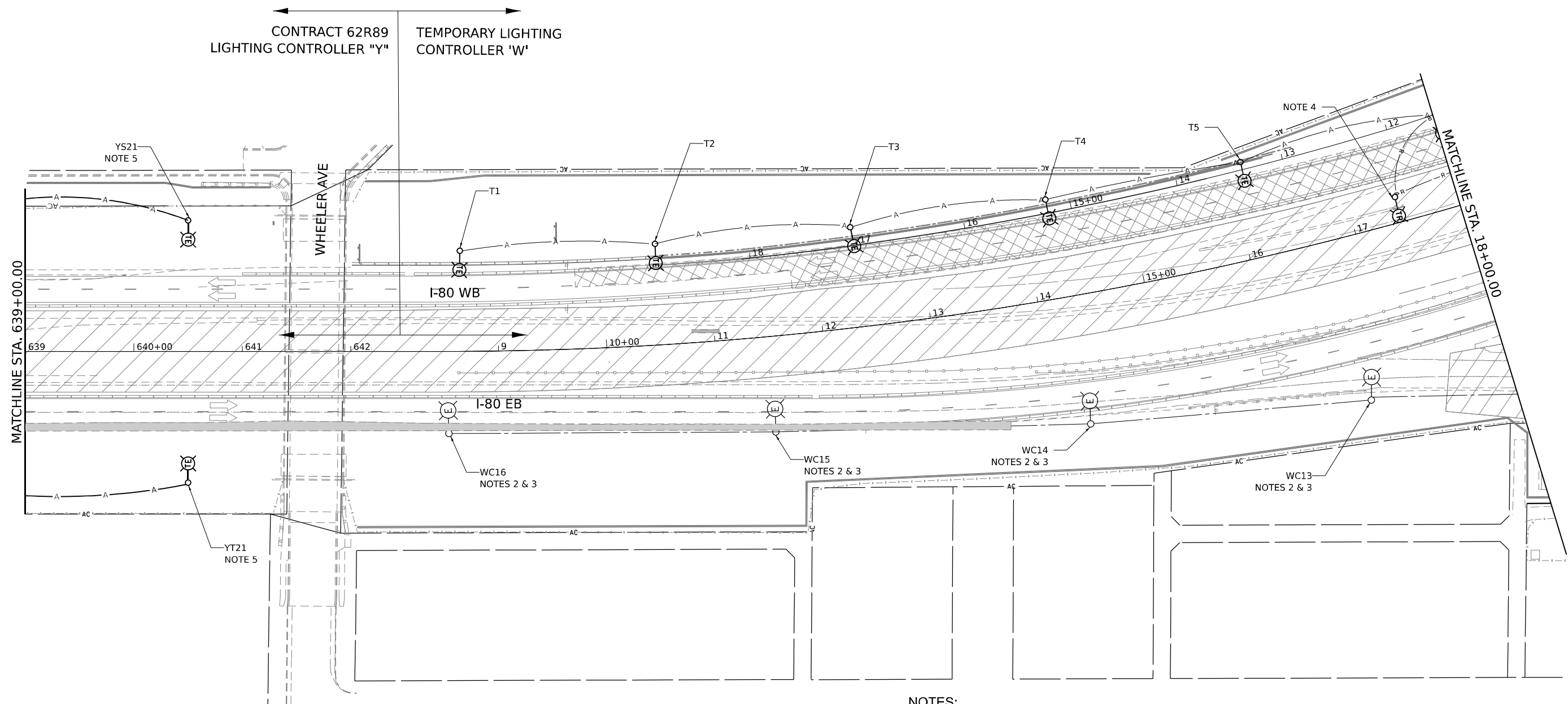
- (A) AERIAL CABLE, 2-1/C NO.2 WITH MESSENGER WIRE
- (B) UNIT DUCT, 600V, 2-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE). 1 1/2" DIA. POLYETHYLENE
- (C) UNDERGROUND CONDUIT, PVC SCHEDULE 80, 4" DIA.

NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL DURING STAGE 3.
3. TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO START OF STAGE 3.
4. EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED PRIOR TO THE START OF STAGE 3.

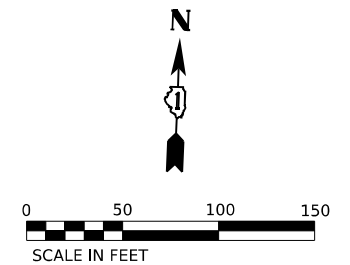


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NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL DURING STAGE 4.
3. THE CONTRACTOR SHALL ENSURE THAT HPS LUMINAIRES ARE CONNECTED TO A 2-POLE BREAKER IN THE TEMPORARY LIGHTING CABINET AND LUMINAIRES SHALL OPERATE AT 480V.
4. TEMPORARY LIGHTING UNITS AND ASSOCIATED AERIAL CABLES SHALL BE REMOVED PRIOR TO THE START OF STAGE 4 CONSTRUCTION.
5. TEMPORARY LIGHTING UNITS AND AERIAL CABLES INSTALLED UNDER CONTRACT 62R89 SHALL REMAIN OPERATIONAL DURING STAGE 4.



LT-16



USER NAME = VGURSKAS	DESIGNED - VG	REVISED -
	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - RP	REVISED -
PLOT DATE = 6/9/2025	DATE - 4/25/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL AND TEMPORARY LIGHTING PLAN – STAGE 4
I-80 AT CENTER STREET**

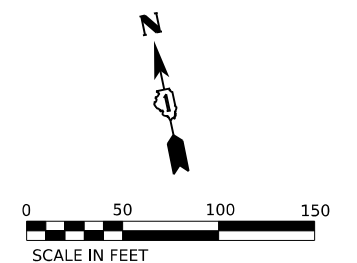
SCALE: 1"=50" SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	547
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

(A1) AERIAL CABLE, 3-1/C NO.2 WITH MESSENGER WIRE (240V, LINE-NEUTRAL)

(B1) UNIT DUCT, 600V, 3-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE).
1 1/2" DIA. POLYETHYLENE (240V, LINE-NEUTRAL)

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL DURING STAGE 4.
3. TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO START OF STAGE 4. TEMPORARY LUMINAIRES SHALL BE 240 VOLT LINE TO NEUTRAL.
4. EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED.
5. WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.
6. PERMANENT LIGHT POLES, CONDUIT, AND ELECTRICAL CABLES SHALL BE INSTALLED PRIOR TO THE START OF STAGE 4. PROPOSED LUMINAIRES SHALL BE 240 VOLT LINE TO NEUTRAL FOR THE PROPOSED POLES. SEE PROPOSED LIGHTING PLANS FOR MORE DETAILS.
7. TEMPORARY LIGHTING UNITS AND ASSOCIATED AERIAL CABLES SHALL BE REMOVED PRIOR TO THE START OF STAGE 4 CONSTRUCTION.



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND TEMPORARY LIGHTING PLAN – STAGE 4 I-80 AT CENTER STREET

SCALE: 1"=50"	SHEET 4 OF 6 SHEETS	STA.	TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	549
		CONTRACT NO. 62R22		
		ILLINOIS	FED. AID PROJECT	

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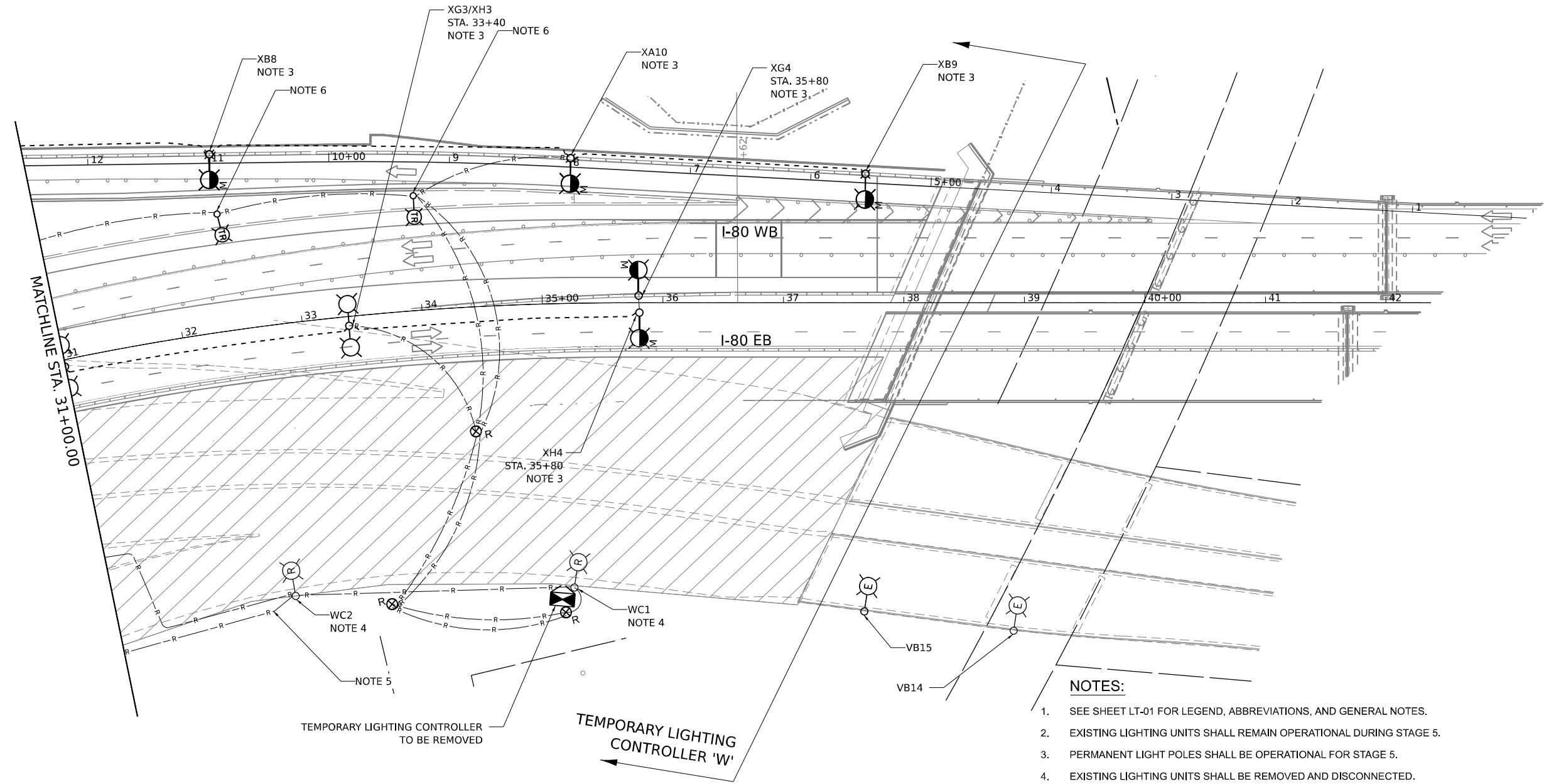
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PLOT DATE	= 4/24/2025	DATE	- 4/25/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND TEMPORARY LIGHTING PLAN – STAGE 5
I-80 AT CENTER STREET

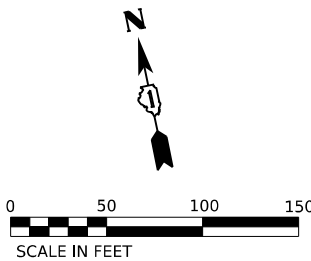
SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	555
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL DURING STAGE 5.
- PERMANENT LIGHT POLES SHALL BE OPERATIONAL FOR STAGE 5.
- EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED.
- WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.
- EXISTING TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE REMOVED.

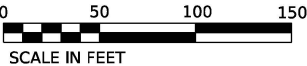
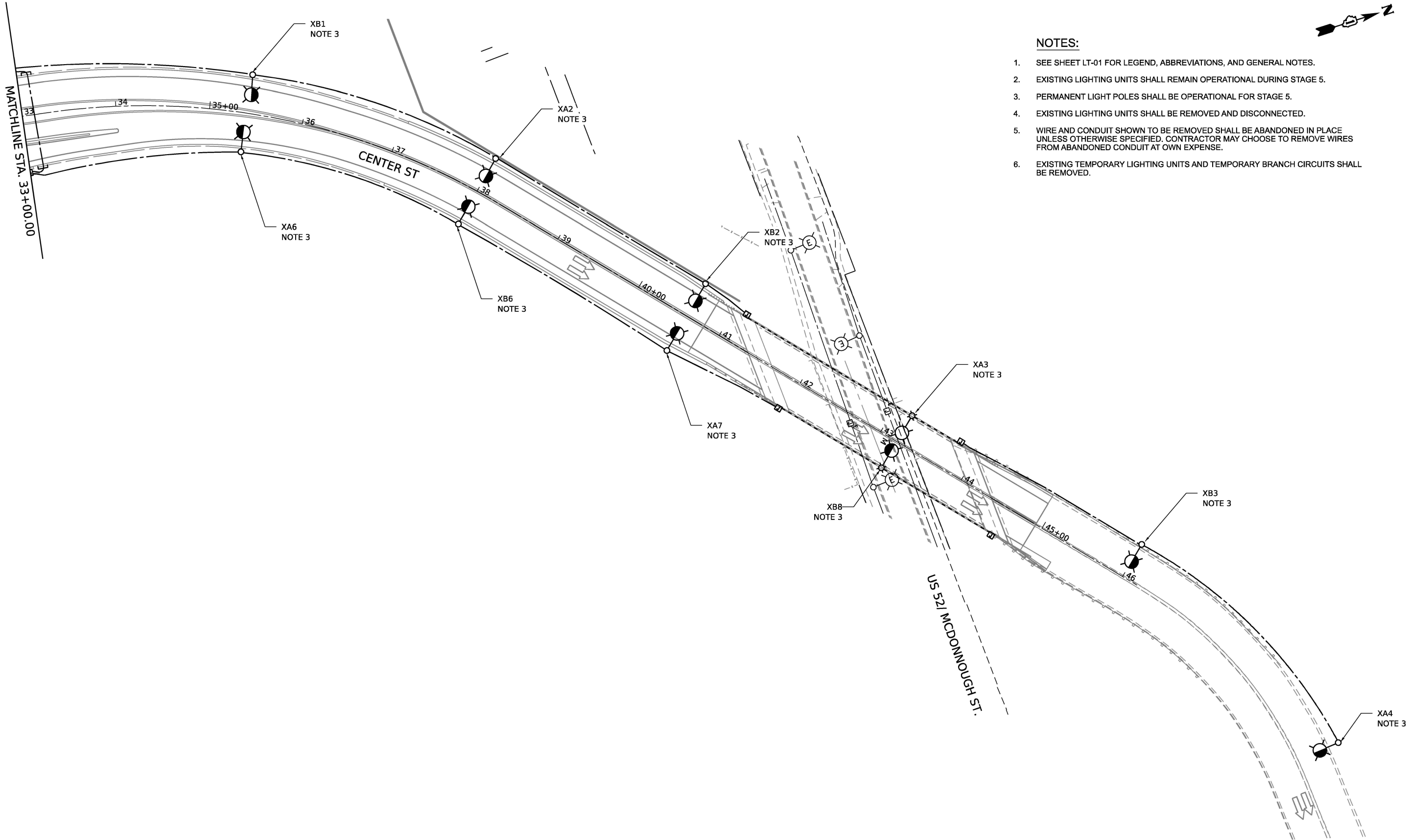


LT-24



NOTES:

1. SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
2. EXISTING LIGHTING UNITS SHALL REMAIN OPERATIONAL DURING STAGE 5.
3. PERMANENT LIGHT POLES SHALL BE OPERATIONAL FOR STAGE 5.
4. EXISTING LIGHTING UNITS SHALL BE REMOVED AND DISCONNECTED.
5. WIRE AND CONDUIT SHOWN TO BE REMOVED SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE SPECIFIED. CONTRACTOR MAY CHOOSE TO REMOVE WIRES FROM ABANDONED CONDUIT AT OWN EXPENSE.
6. EXISTING TEMPORARY LIGHTING UNITS AND TEMPORARY BRANCH CIRCUITS SHALL BE REMOVED.



LT-26



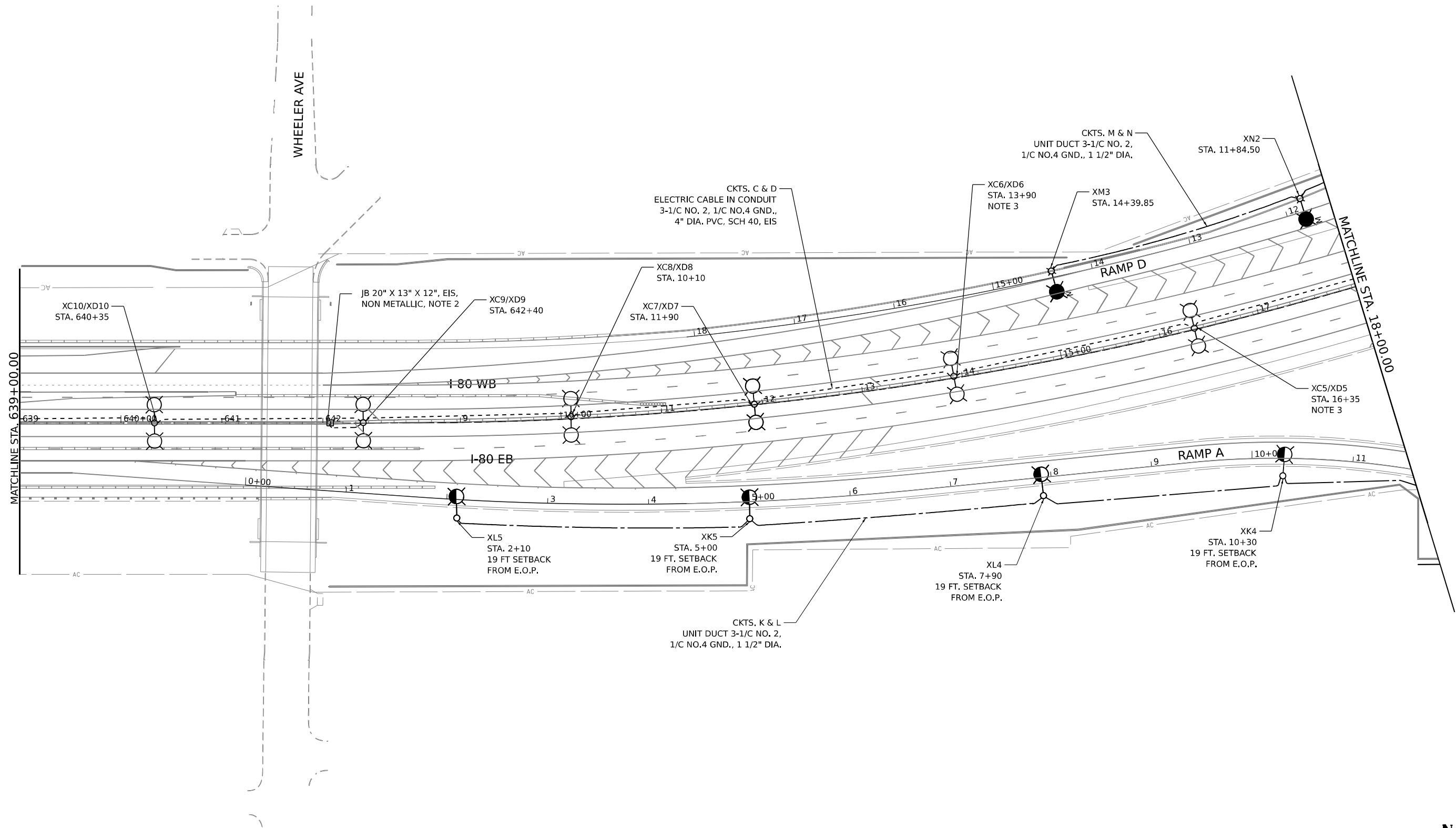
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PLOT SCALE	= 100,000' / in.	CHECKED	- RP	REVISED	-
PLOT DATE	= 4/24/2025	DATE	- 4/25/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL AND TEMPORARY LIGHTING PLAN – STAGE 5
I-80 AT CENTER STREET

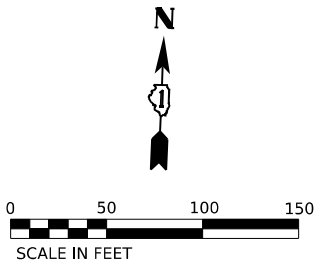
SCALE: 1"=50" SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	557
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- SEE SHEET LT-34 FOR PROPOSED UNDERPASS LIGHTING PLAN.
- DUE TO PROXIMITY TO DRAINAGE PIPE AND BASED ON SOIL CONDITION THE LIGHT POLE FOUNDATION DEPTH SHALL BE 7 FT UNLESS DIRECTED OTHERWISE BY THE ENGINEER.



LT-28



USER NAME = VGURSKAS	DESIGNED - VG
	DRAWN - VN/MAG
PLOT SCALE = 100,000' / in.	CHECKED - RP
PLOT DATE = 6/9/2025	DATE - 4/25/2025

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

SCALE: 1"=50" SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	559
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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USER NAME	= VGURSKAS
DESIGNED	- VG
DRAWN	- VN/MAG
PLOT SCALE	= 100,000' / in.
CHECKED	- RP
PLOT DATE	= 6/9/2025
DATE	- 4/25/2025

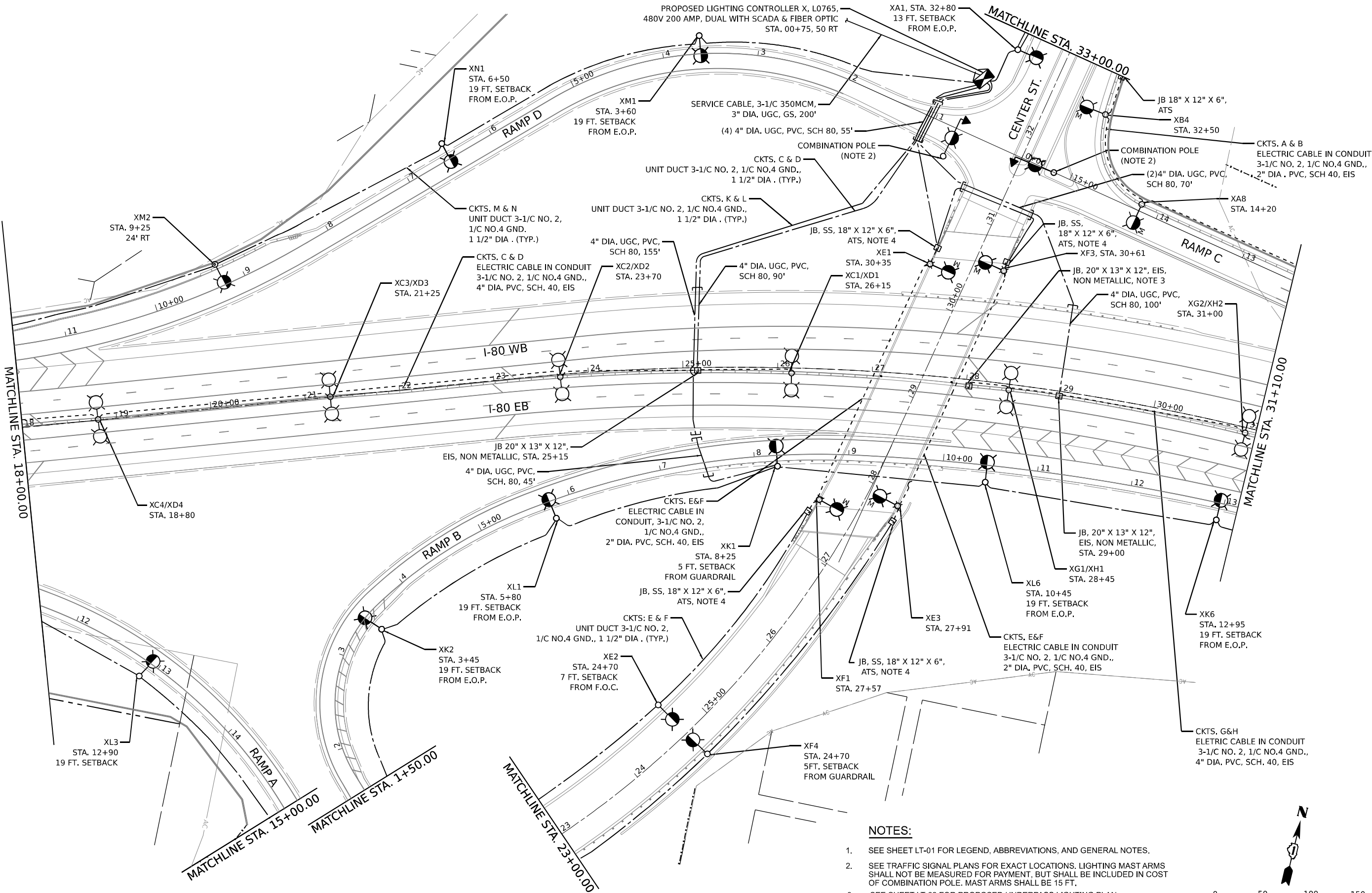
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

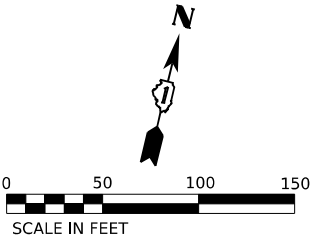
PROPOSED LIGHTING PLAN

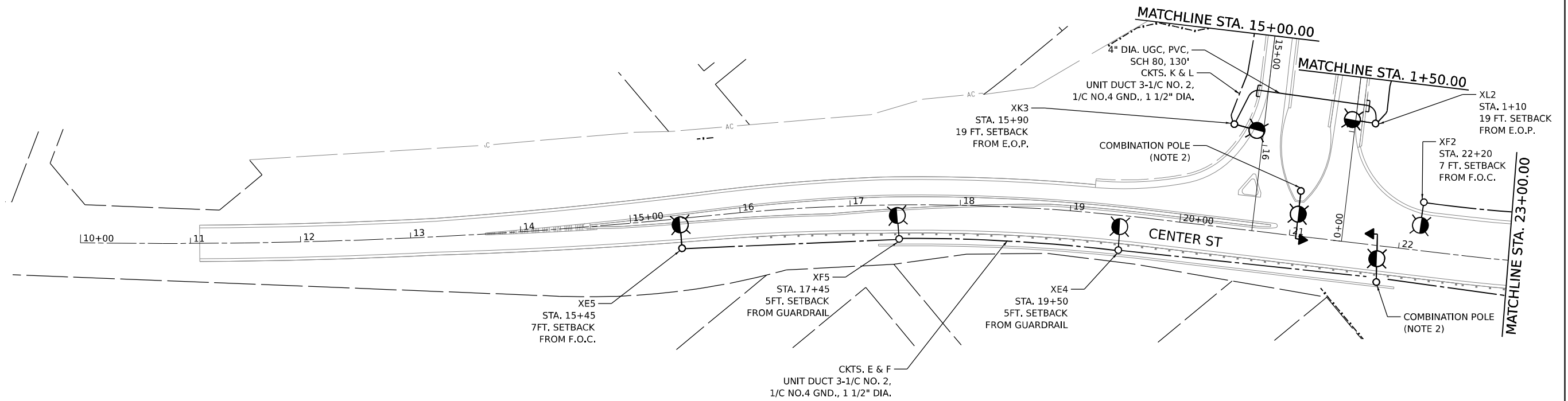
SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	560
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



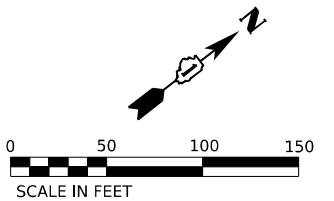
- NOTES:
- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE TRAFFIC SIGNAL PLANS FOR EXACT LOCATIONS. LIGHTING MAST ARMS SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN COST OF COMBINATION POLE. MAST ARMS SHALL BE 15 FT.
 - SEE SHEET LT-33 FOR PROPOSED UNDERPASS LIGHTING PLAN.
 - LOCATION OF JUNCTION BOX SHALL BE ACCORDING TO IDOT HIGHWAY STANDARD 812001-01.





NOTES:

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- SEE TRAFFIC SIGNAL PLANS FOR THE EXACT LOCATIONS. LIGHTING MAST ARMS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN COST OF COMBINATION POLE. MAST ARMS SHALL BE 15 FT.



LT-31



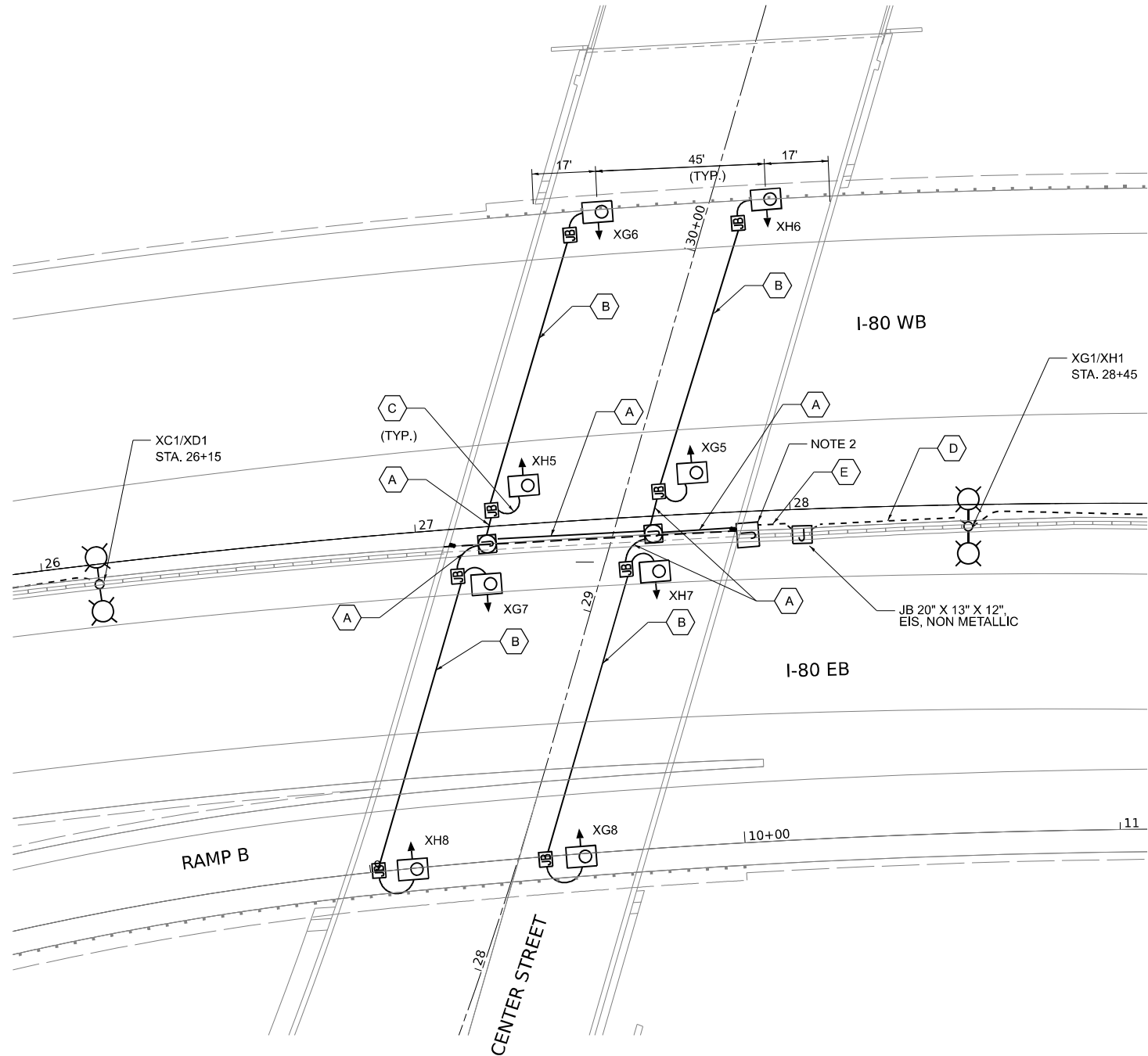
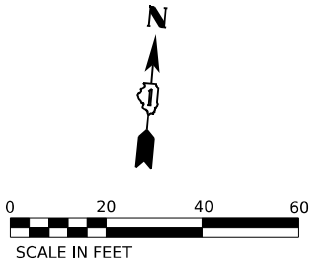
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	DRAWN - VN/MAG	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - RP	REVISED -
PLOT DATE = 6/9/2025	DATE - 4/25/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN

SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	562
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



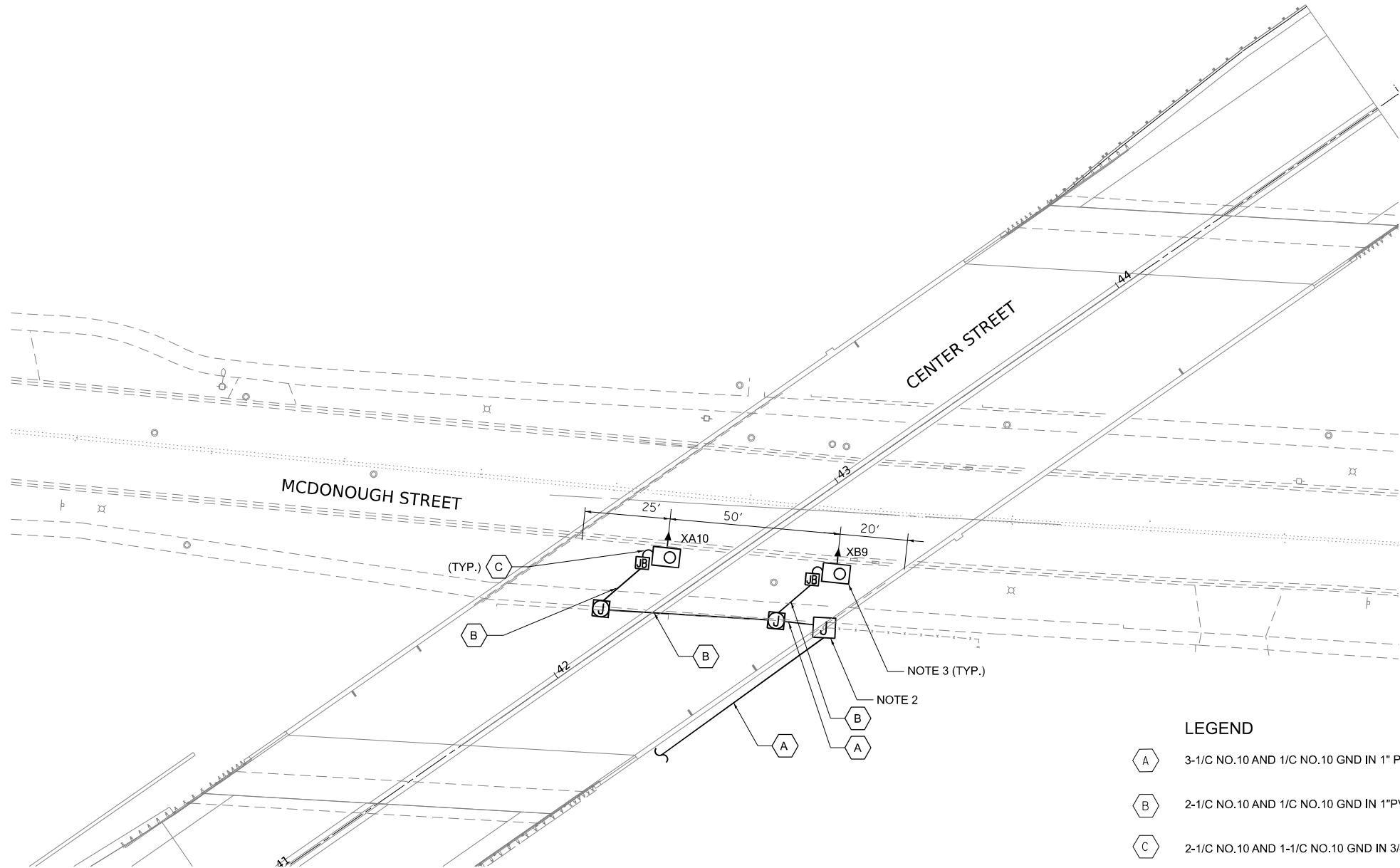
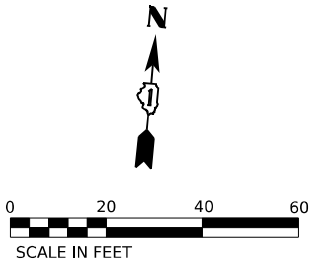
NOTES

- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- INSTALL FUSEHOLDER WITH 30 AMP FUSES AND NEUTRAL SLUG INSIDE THE JUNCTION BOX
- PROPOSED UNDERPASS LUMINAIRE SUSPENDED FROM THE BRIDGE DECK, LUMINAIRE SHALL BE CENTERED IN THE BEAM SPACE AND SHALL BE POSITIONED AT THE SPECIFIED SETBACK FROM THE EDGE OF THE PAVEMENT.

LEGEND

- A** 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- B** 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- C** 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- D** ELECTRIC CABLE IN CONDUIT, 600V, 3-1/C NO.2, 1/C NO.4 GND, (XLP-TYPE USE), IN 4" PVC CONDUIT EMBEDDED IN BARRIER WALL
- E** ELECTRIC CABLE IN CONDUIT, 600V, 3-1/C NO.2, 1/C NO.4 GND, (XLP-TYPE USE), IN 3" PVC CONDUIT EMBEDDED IN BARRIER WALL (TRANSITIONS TO 3" PVCC RGC AT PIER)

- LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D (17FT M.H.) 12' SETBACK FROM EOP FOR I-80 WB, 2' SETBACK FROM EOP FOR I-80 EB
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"



NOTES

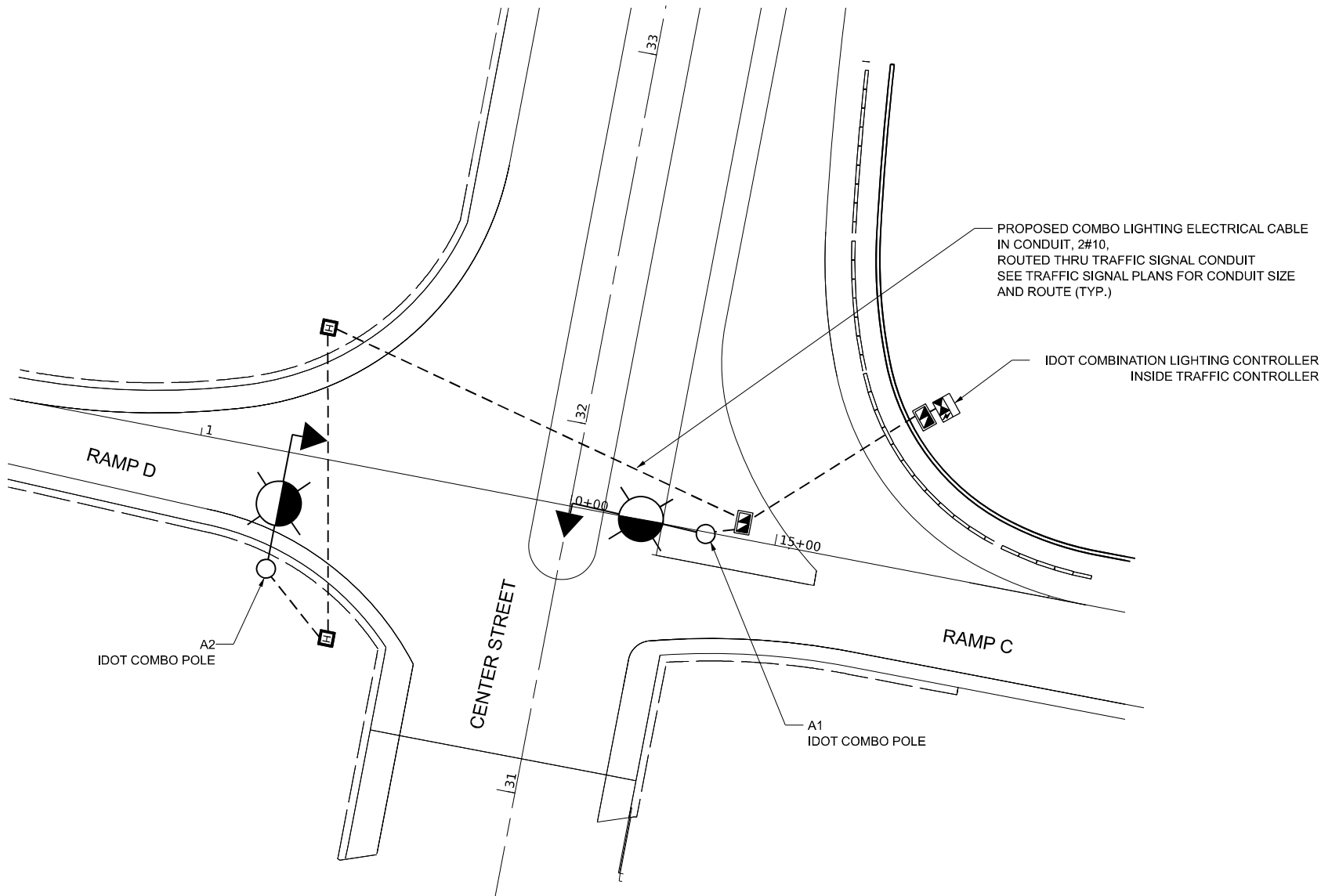
- SEE SHEET LT-01 FOR LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
- INSTALL FUSEHOLDER WITH 30 AMP FUSES AND NEUTRAL SLUG INSIDE THE JUNCTION BOX
- PROPOSED UNDERPASS LUMINAIRE SUSPENDED FROM THE BRIDGE DECK, LUMINAIRE SHALL BE CENTERED IN THE BEAM SPACE AND SHALL BE POSITIONED AT THE SPECIFIED SETBACK FROM THE EDGE OF THE PAVEMENT.

LEGEND

- 3-1/C NO.10 AND 1/C NO.10 GND IN 1" PVCC RGC
- 2-1/C NO.10 AND 1/C NO.10 GND IN 1"PVCC RGC
- 2-1/C NO.10 AND 1-1/C NO.10 GND IN 3/4" LIQUID-TIGHT FLEXIBLE CONDUIT
- LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D (17FT M.H.) 2' SETBACK FROM EOP
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"



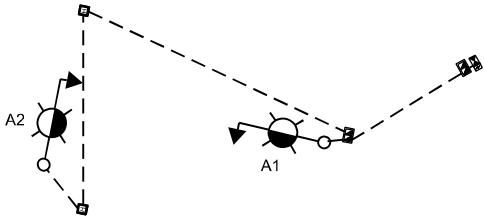
IDOT COMBINATION LIGHT POLE
45 FT LUMINAIRE MOUNTING HEIGHT
15 FT LUMINAIRE ARM
LUMINAIRE, LED, OUTPUT DESIGNATION H, 120V,
WITH 6 AMP FUSE & NEUTRAL SLUG



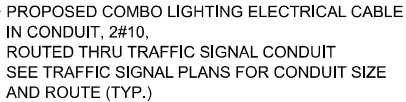
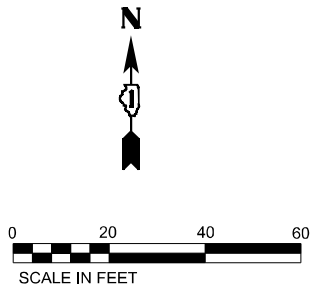
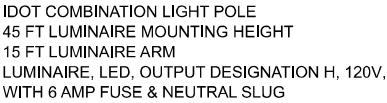
NOTES:

1. THE IDOT COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM IDOT TRAFFIC CONTROLLER, SEE DETAIL BE-240
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING DECALS SHOWN ARE FOR GUIDANCE ONLY.

IDOT COMBO LIGHTING SCHEDULE OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V, (XLP TYPE USE) 1/C NO. 10	FOOT	650



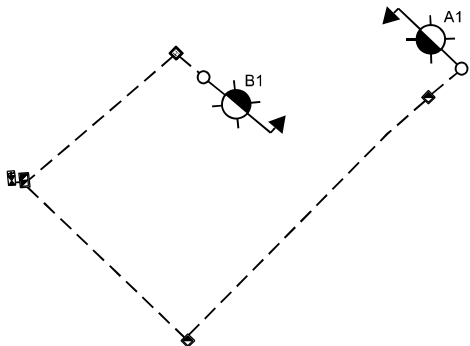
ONE LINE DIAGRAM



NOTES:

1. THE IDOT COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM IDOT TRAFFIC CONTROLLER, SEE DETAIL BE-240
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC SIGNAL PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING DECALS SHOWN ARE FOR GUIDANCE ONLY.

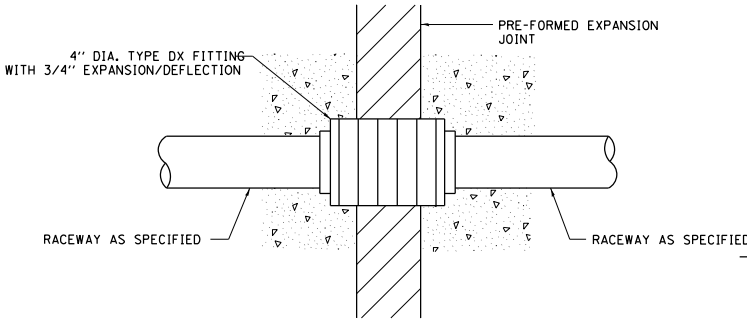
IDOT COMBO LIGHTING SCHEDULE OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V, (XLP TYPE USE) 1/C NO. 10	FOOT	740



ONE LINE DIAGRAM

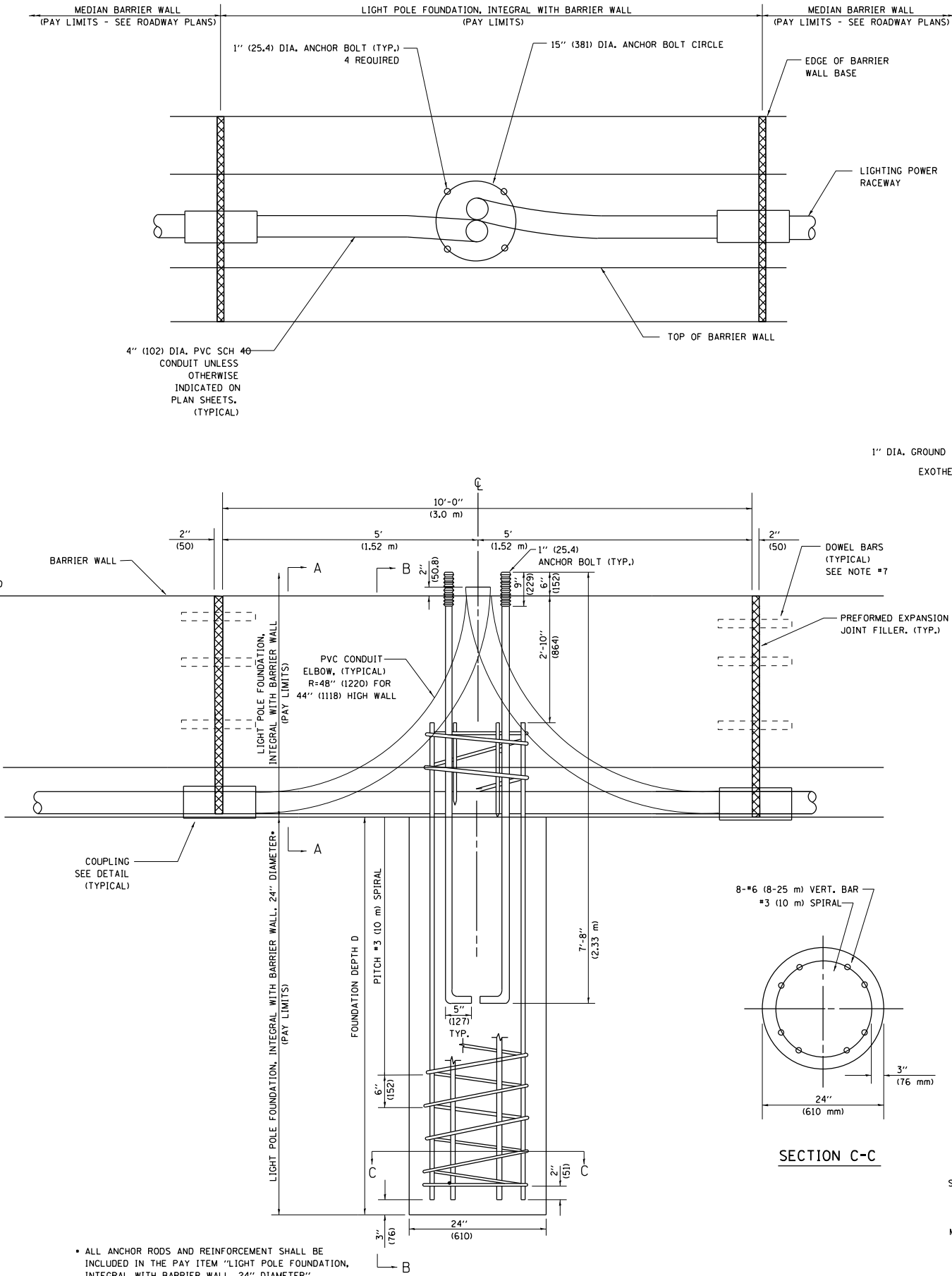
NOTES:

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORMS.
3. THE CONTRACTOR AT HIS OPTION MAY SUBSTITUTE #4 (15 m) TIES AT 12" (304.8 m) CTRS. FOR THE #3 (3 m) SPIRAL. TACKWELDED TYPE BOLT MAY BE SUBSTITUTED FOR THE HOOK TYPE BOLT.
4. COLD BENDING OF THE HOOK BOLT SHALL NOT BE ALLOWED.
5. EXCAVATION FOR THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER 24 INCHES (609.6 m) IN DIAMETER, ROCK EXCAVATION IF REQUIRED SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 502.
6. THE ENGINEER SHALL DETERMINE THE TYPE OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE USING THE DOMINANT CHARACTERISTIC OF THE SOIL ENCOUNTERED.
7. BARRIER WALL EXPANSION AND CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH STANDARD DETAIL 637006-05 AS APPLICABLE. SHAPE OF BARRIER TO MATCH ADJACENT BARRIER SECTIONS (TYPICAL OR VARIABLE HEIGHT).
8. ANCHOR RODS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLES 1070.02 AND 1006.09.

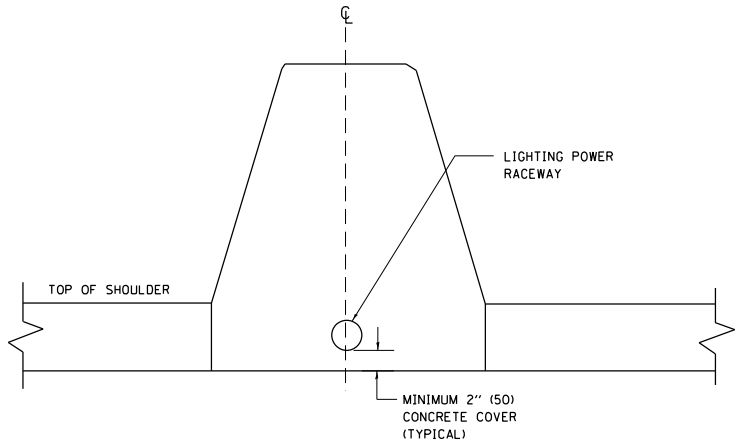


CONDUIT DEFLECTION FITTING DETAIL

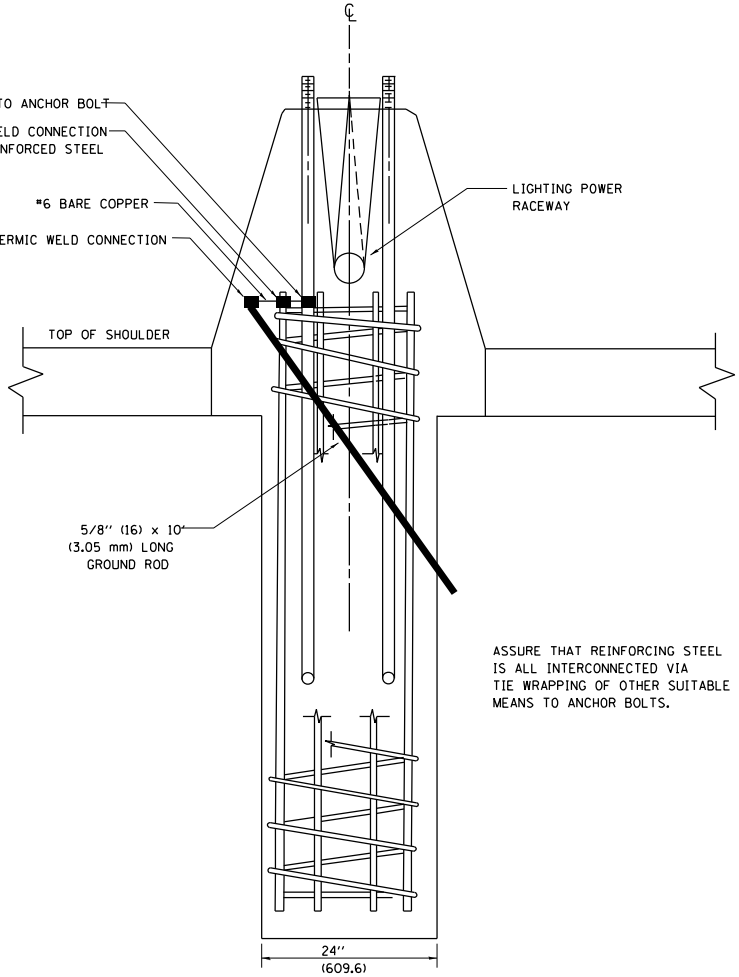
TYPE OF SOIL	FOUND DEPTH D	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	SPIRAL
ROCK OR SOLIDIFIED SLAG	5'-0" (1.52 m)	NONE	NONE
DENSE SAND	7'-9" (2.36 m)	8-#6 x 9'-0" (8-20 m x 2.74 m)	#3 x 90' (3 m x 27.43 m)
MEDIUM SAND	8'-3" (2.51 m)	8-#6 x 9'-5" (8-20 m x 2.87 m)	#3 x 94' (3 m x 28.65 m)
LOOSE SAND	9'-0" (2.74 m)	8-#6 x 10'-2" (8-20 m x 3.09 m)	#3 x 100' (3 m x 30.48 m)
STIFF CLAY	7'-0" (2.13 m)	8-#6 x 10'-8" (8-20 m x 2.48 m)	#3 x 80' (3 m x 24.38 m)
MEDIUM CLAY	9'-6" (2.89 m)	8-#6 x 10'-8" (8-20 m x 3.25 m)	#3 x 104' (3 m x 31.69 m)
SOFT CLAY	13'-0" (3.96 m)	8-#6 x 14'-2" (8-20 m x 4.32 m)	#3 x 144' (3 m x 43.89 m)



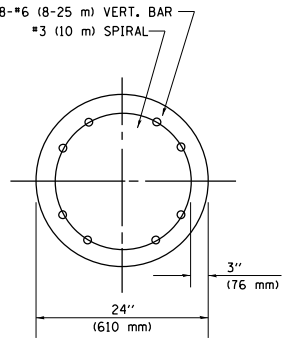
• ALL ANCHOR RODS AND REINFORCEMENT SHALL BE INCLUDED IN THE PAY ITEM "LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24\"/>



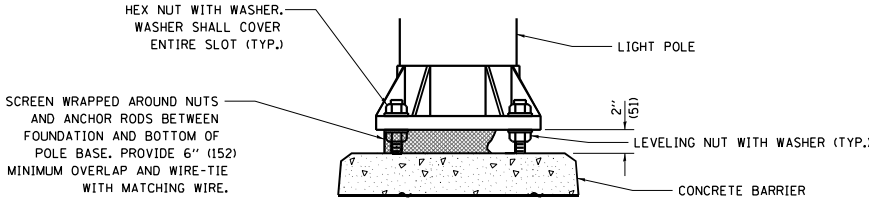
SECTION A-A



SECTION B-B



SECTION C-C



ELEVATION AT CONCRETE BARRIER

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PLOT DATE = 4/24/2025	CHECKED - RP	REVISED -
	DATE - 4/25/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 CORRIDOR DETAILS
24" (610 mm) DIA. LIGHT POLE FOUNDATION INTEGRAL
WITH DOUBLE FACE BARRIER WALL

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	570
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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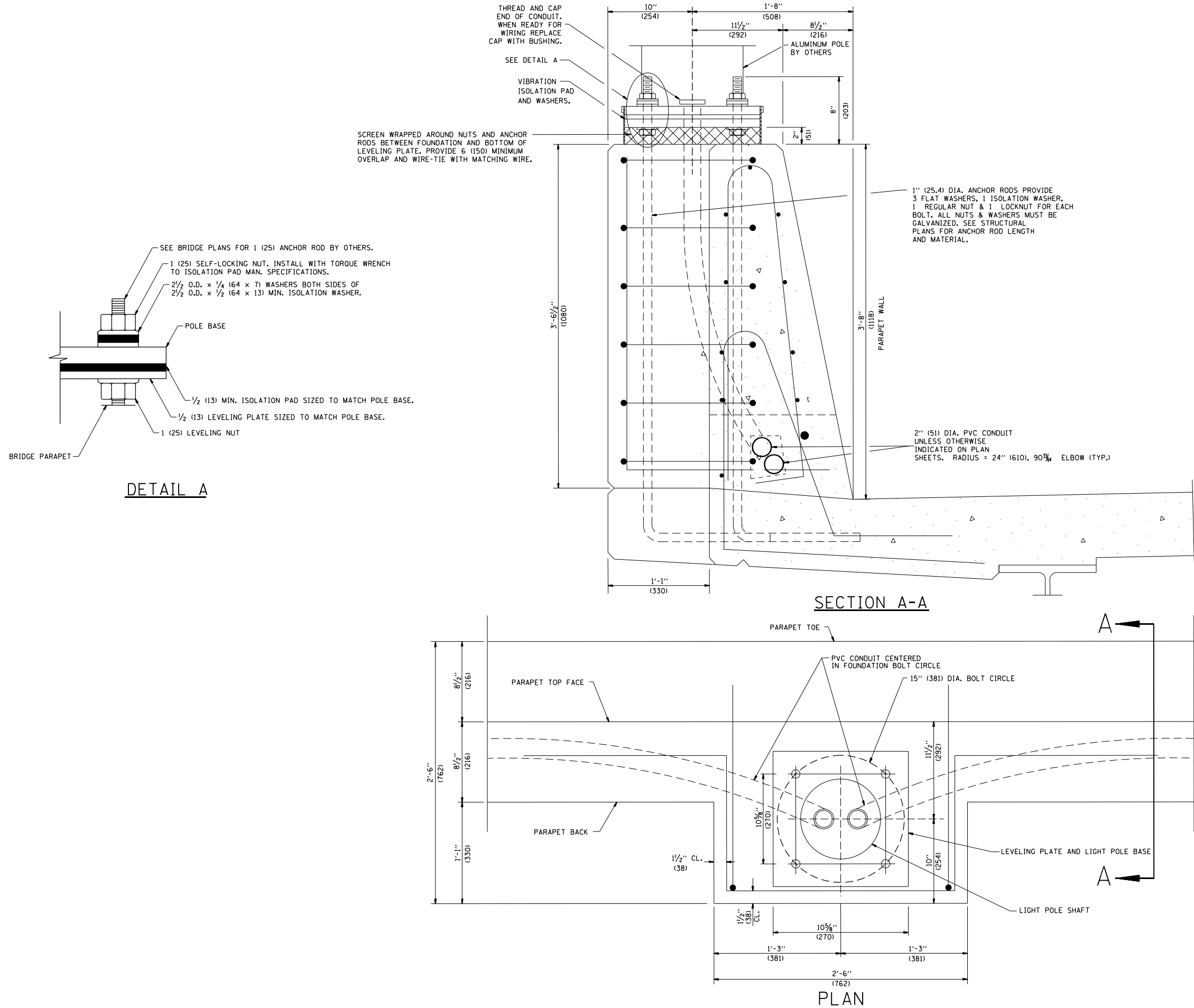
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PLOT DATE	= 4/24/2025	DATE	- 4/25/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-80 CORRIDOR DETAILS
LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL
15" (381 mm) BOLT CIRCLE

SCALE: SHEET OF SHEETS STA. TO STA.

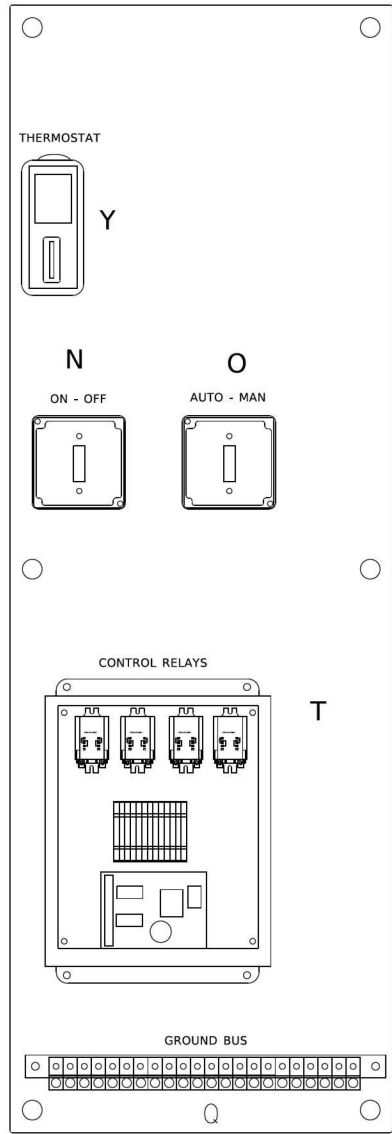
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	571
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



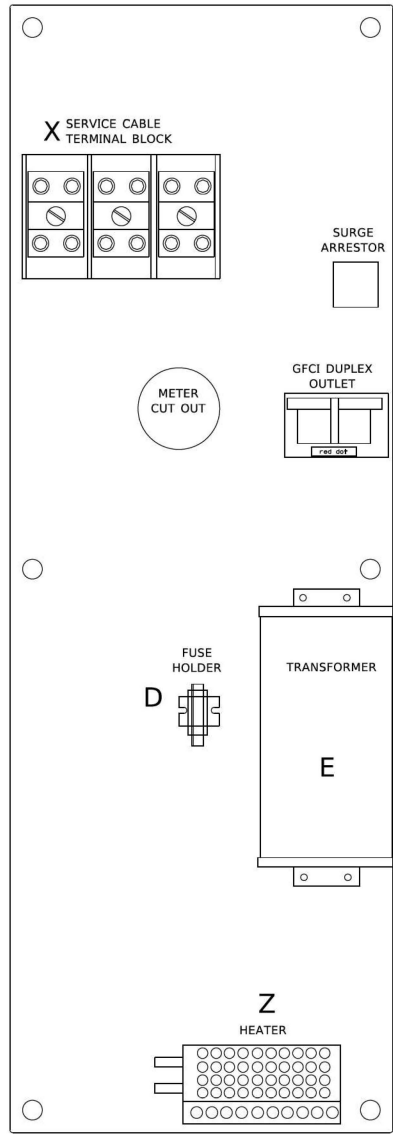
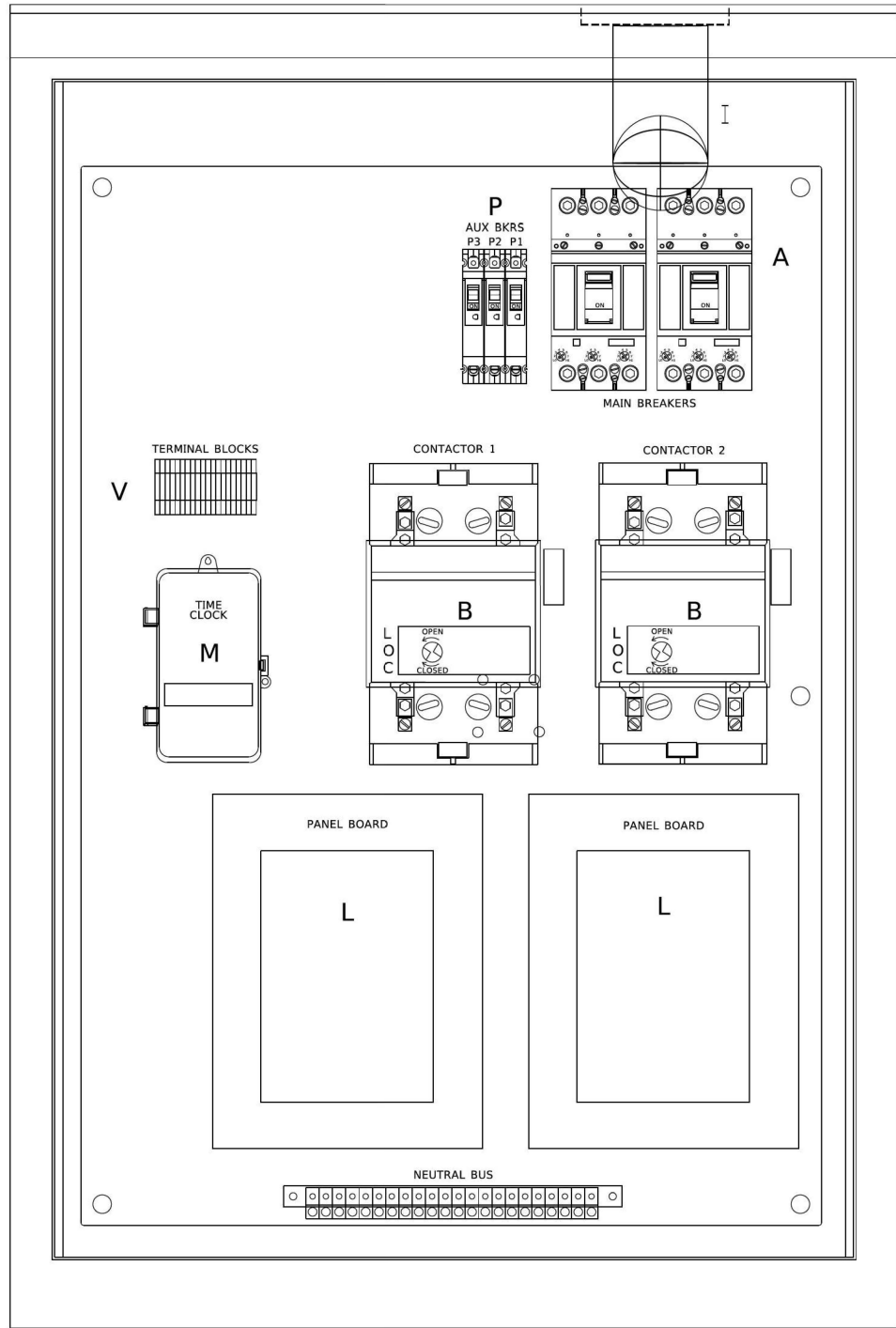
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LEFT SIDE PANEL



RIGHT SIDE PANEL

BILL OF MATERIALS		
ITEM *	QTY	DESCRIPTION
A	2	MAIN BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	2	MECHANICAL CONTRACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	SECTIONAL FUSE HOLDER
E	1	2.0 KVA 277V-240/120 TRASFORMER
G	1	15 AMP GFCI
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OF
O	1	DPDT 20 AMP AUTO-MANUAL
P1	1	BREAKER 1P 15A
P2	1	BREAKER 1P 15A
P3	1	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X ¼
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH DPDT 25 AMP RELAYS (R1,R2,R3,R4). MOMENTARY CONTACT ADAPTER. QTY 12
V	20	TERMINAL BLOCKS
X	1	620 AMP SPLICE BLOCK
Y	1	CHROMALOX WR 80, 40-80 DEG THERMOSTAT
Z	1	HEATREX 276-10 375 WATT HEATER

*

E-200

USER NAME = ngarvda	DESIGNED - VG	REVISED -
DRAWN - VN/MAG	REVISIED -	
PLOT SCALE = 0.167" / in.	CHECKED - RP	REVISED -
PLOT DATE = 4/24/2025	DATE - 4/25/2025	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		LIGHTING CONTROLLER, BASE MOUNTED 480 VOLT, 200 AMP, (DUAL)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				E-200 (BE-200)		CONTRACT NO.		
				ILLINOIS		FED. AID PROJECT		

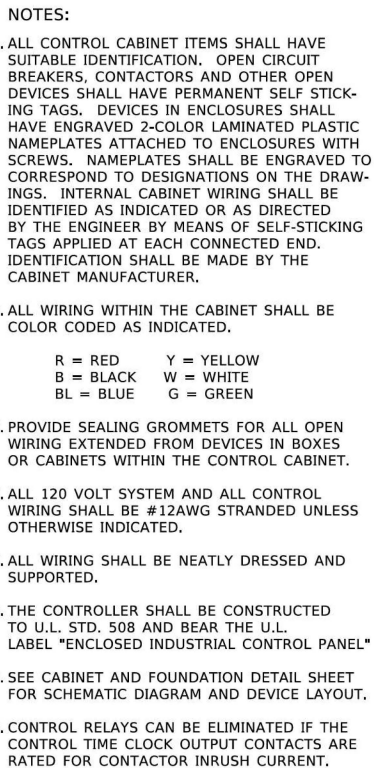


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DRAWN - VN/MAG	REVISIED -	
PLOT SCALE = 0.167" / in.	CHECKED - RP	REVISED -
PLOT DATE = 4/24/2025	DATE - 4/25/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

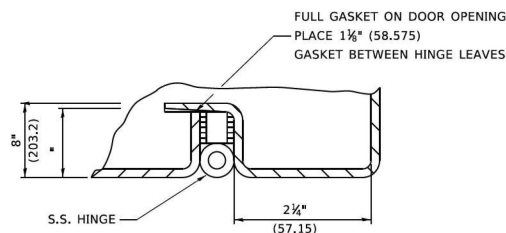
IDOT D1 – TEMPORARY CONTROLLER DETAILS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		80	FAI 80 21 INTERCHANGE	WILL	1209	572
		CONTRACT NO. 62R22				
		ILLINOIS		FED. AID PROJECT		

LT-41

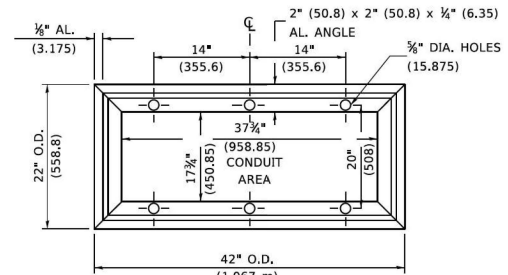


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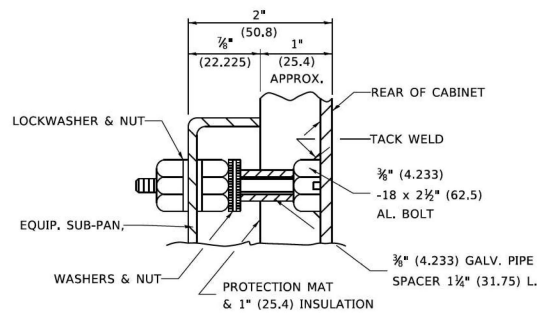
E-200



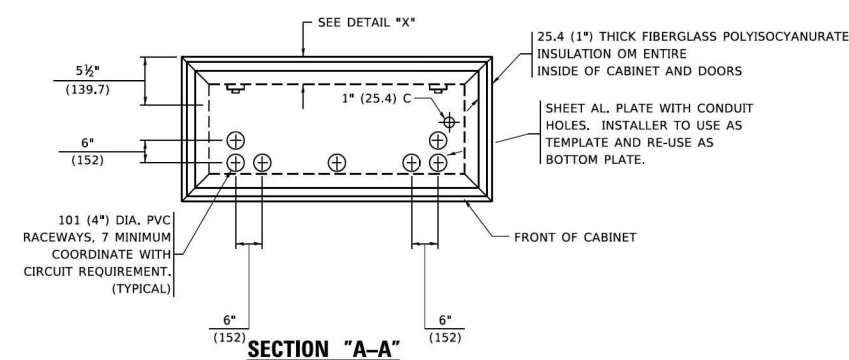
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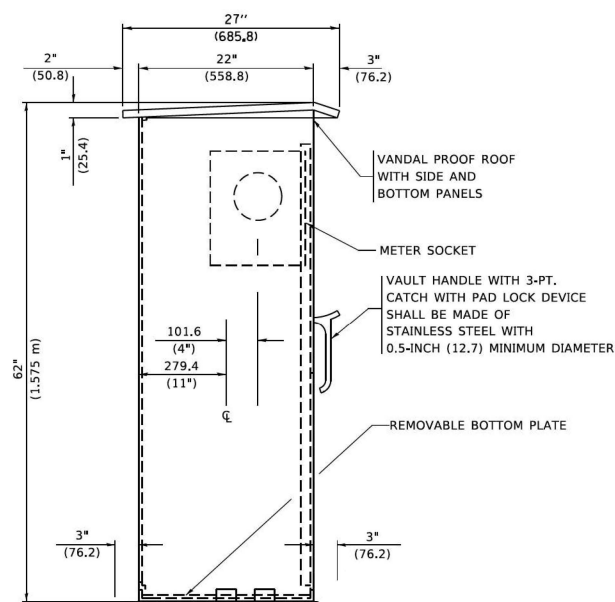
BASE MTG. DETAIL



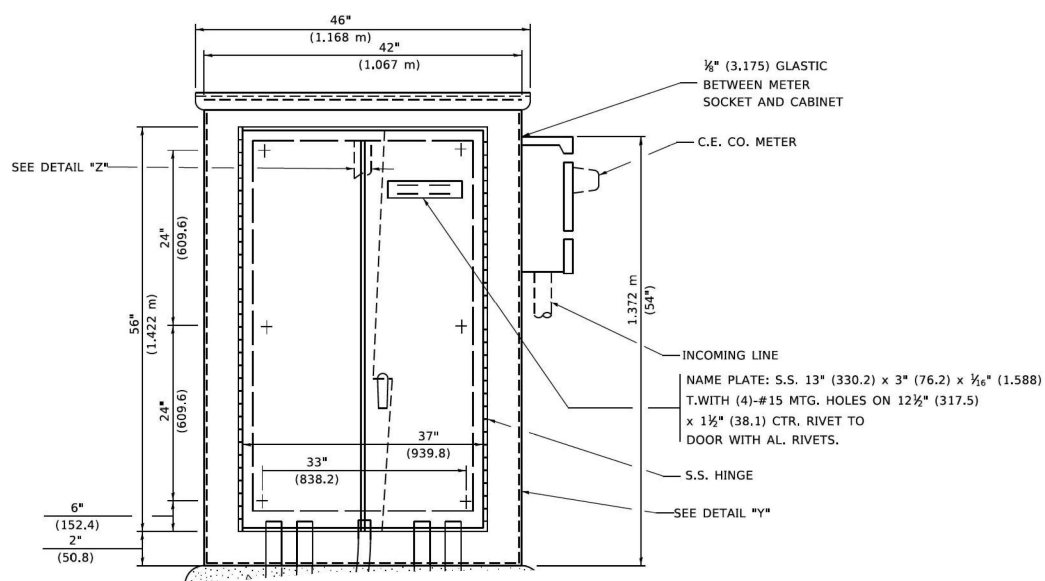
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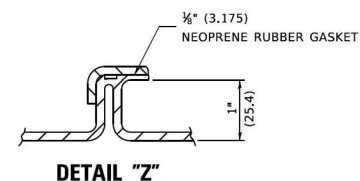
SECTION "A-A"



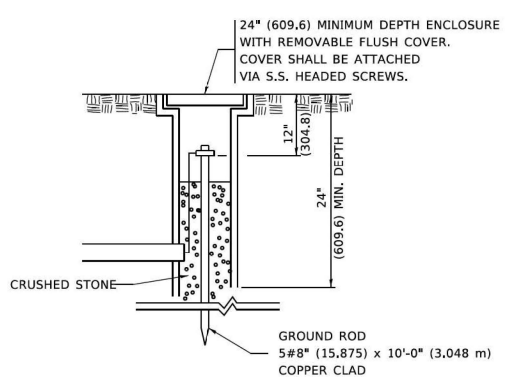
LEFT SIDE ELEVATION



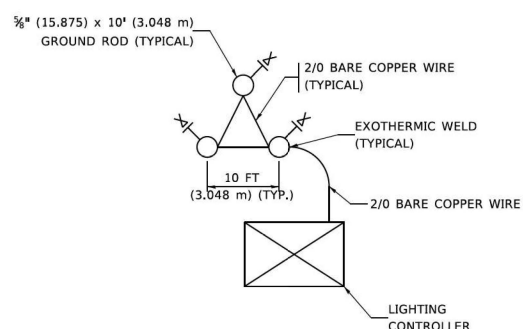
FRONT ELEVATION



DETAIL "Z"



GROUND WELL DETAIL



GROUND FIELD DETAIL
(N.T.S.)

THE CONTRACTOR SHALL
VERIFY EXACT LOCATION
WITH THE ENGINEER

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PLOT SCALE	= 50,0000' / in.	DRAWN	-	CADD	REVISED	-	
PLOT DATE	= 4/19/2019	CHECKED	-	RP	REVISED	-	
		DATE	-	12-18-02	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED
480 VOLT, 200 AMP, (DUAL)

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	574
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

E-200

SINGH
SINGH & ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME	= mgarvda	DESIGNED	-	VG	REVISED	-
PLOT SCALE	= 0.167' / in.	DRAWN	-	VN/MAG	REVISED	-
PLOT DATE	= 4/24/2025	CHECKED	-	RP	REVISED	-
		DATE	-	4/25/2025	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1 - TEMPORARY CONTROLLER DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	574
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

LT-43

NOTES:

1.

CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY.
2.

ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
3.

NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
4.

ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
5.

CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
6.

ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7.

THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8.

METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9.

CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
10.

ALL DEVICES SHALL BE FRONT REMOVABLE.
11.

TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY.
12.

SET "ON TIME" TO 30 MINUTES AFTER ASTRONOMICAL SUNSET.
13.

BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
14.

ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15.

ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
16.

ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
17.

ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18.

ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R - RED

Y - YELLOW

B - BLACK

W - WHITE

BL - BLUE

G - GREEN
19.

ALL DIMENSIONS ARE IN MILIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
20.

SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE.
21.

A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.

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	USER NAME ■ [footem]		DESIGNED -		REVISED - R. TOMSONS 03-29-12		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION						LIGHTING CONTROLLER, BASE MOUNTED				F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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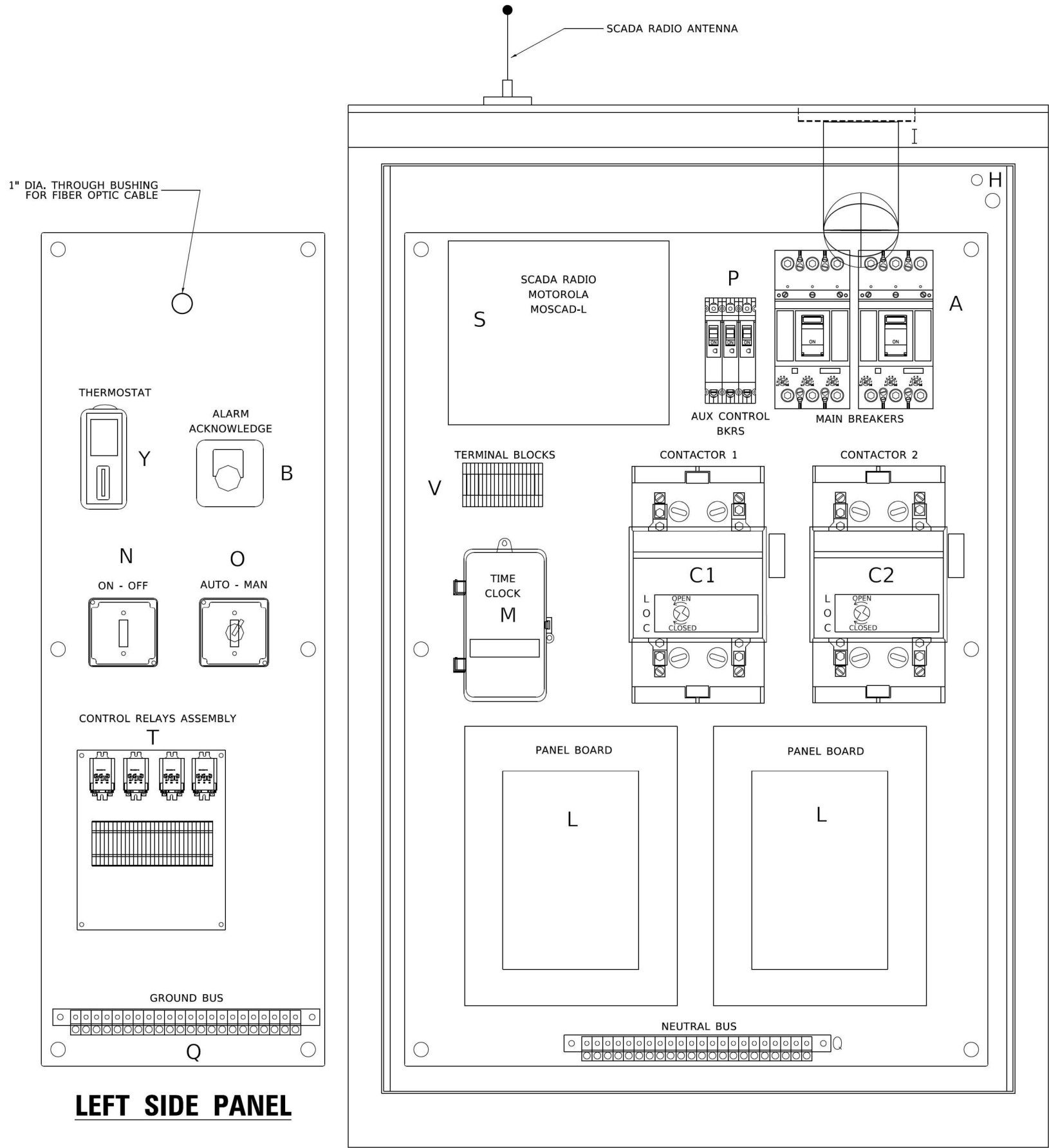
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT D1 – TEMPORARY CONTROLLER DETAILS

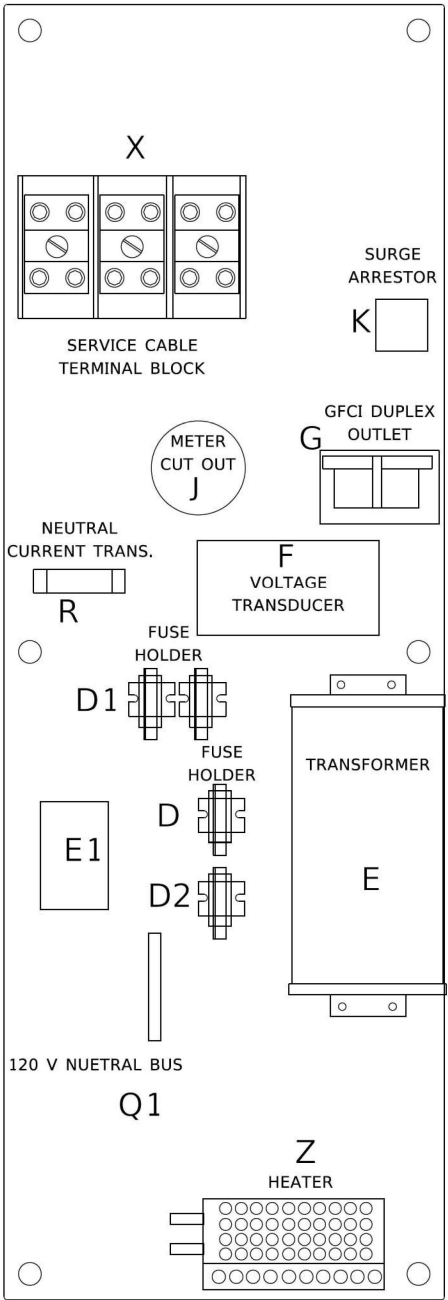
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	575
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

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LEFT SIDE PANEL



RIGHT SIDE PANEL

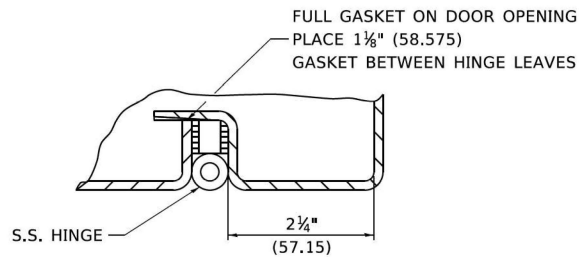
BILL OF MATERIALS

ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2 *	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - ½ A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T *	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X *	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

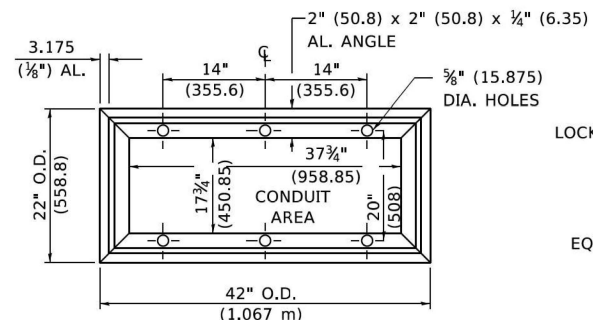
* TERMINALS SHALL BE COVERED WITH
CLEAR PLEXIGLASS SHEET

LT-45

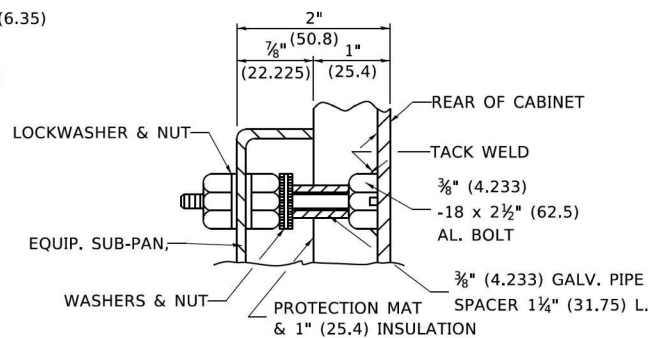
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCALE: NONE	SHEET 1 OF 4 SHEETS	STA. _____	TO STA. _____	ILLINOIS	FED. AID PROJECT	
			80	FAI 80 21 INTERCHANGE	WILL	1209	576
			BE-206		CONTRACT NO. 62R22		



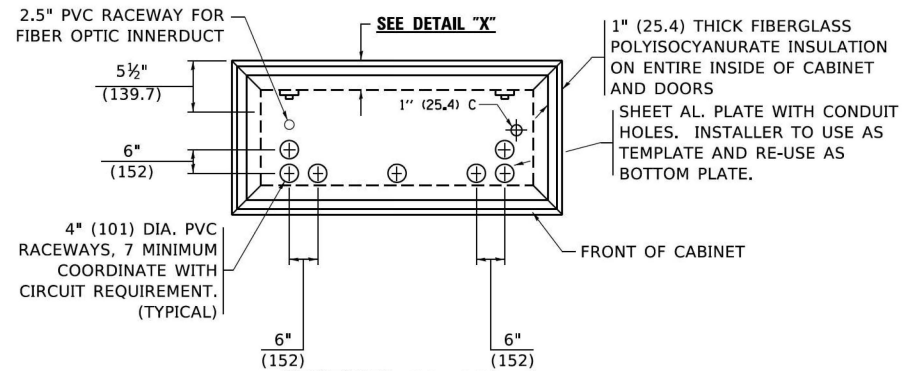
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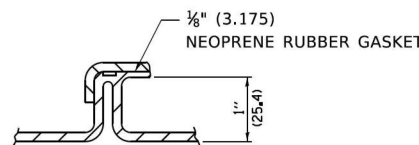
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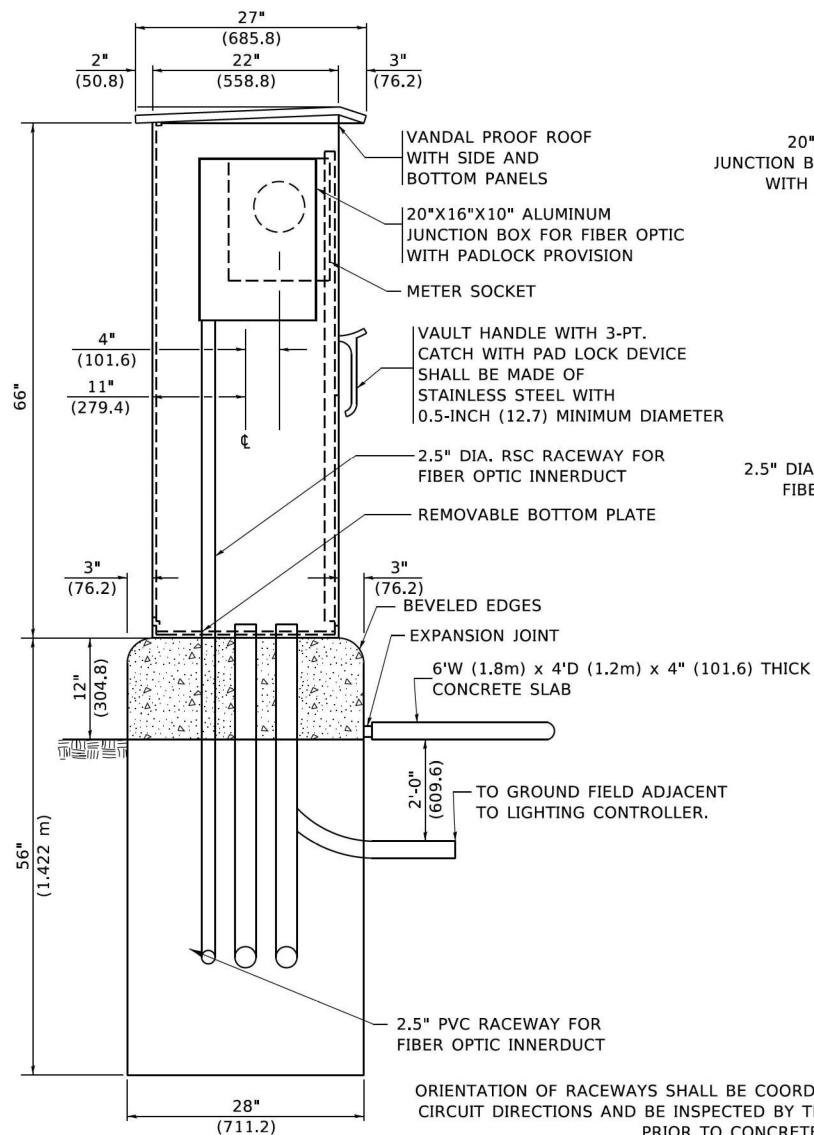
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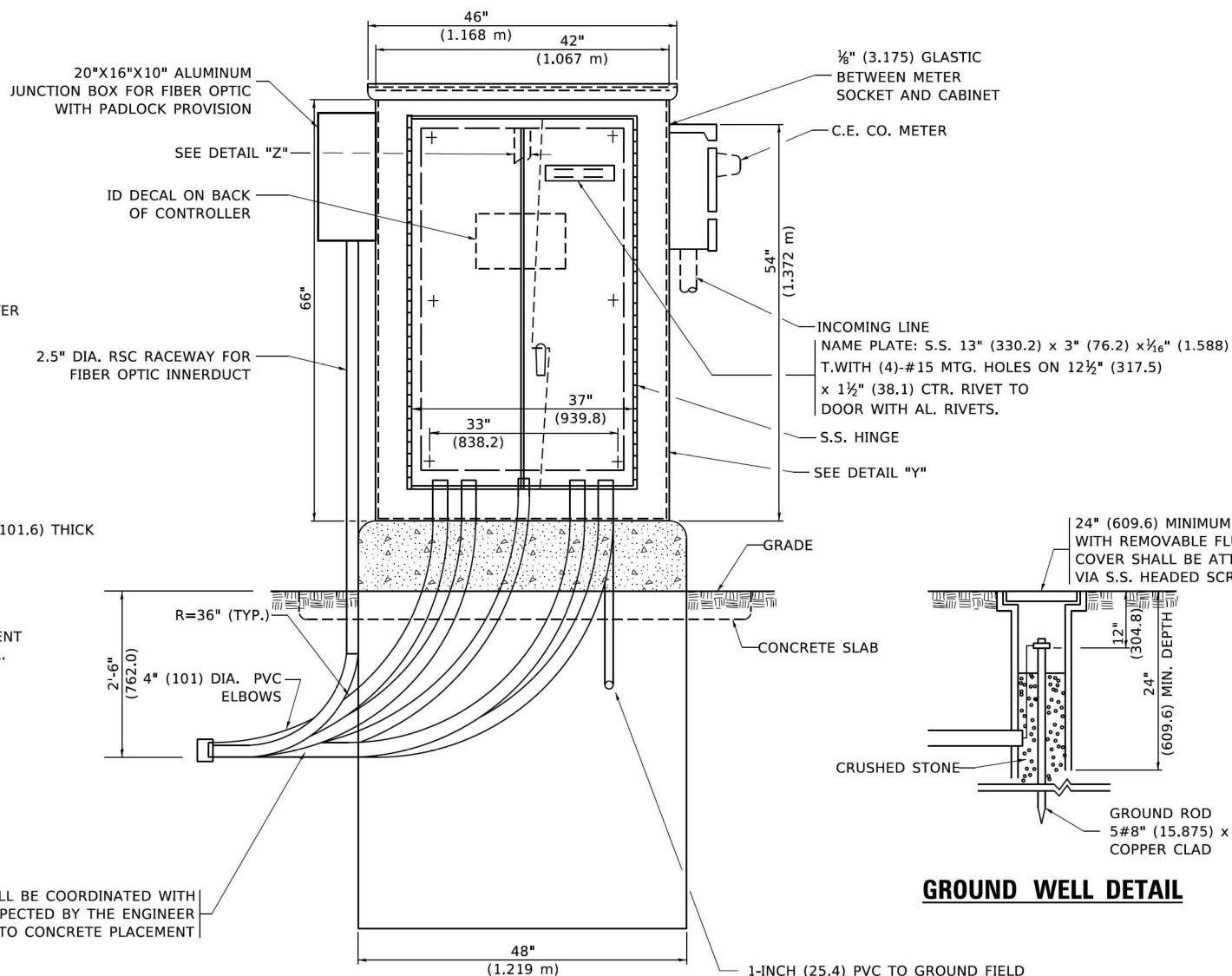
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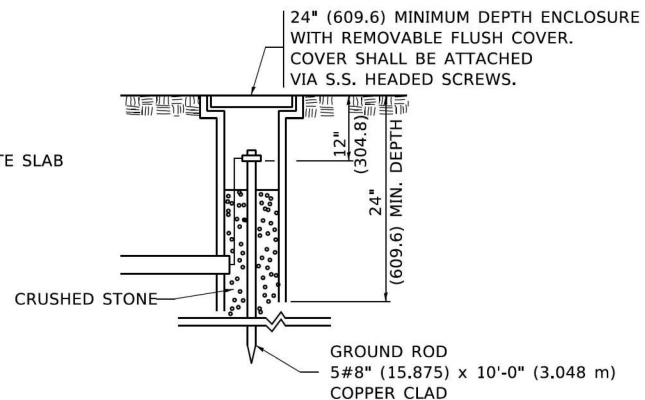
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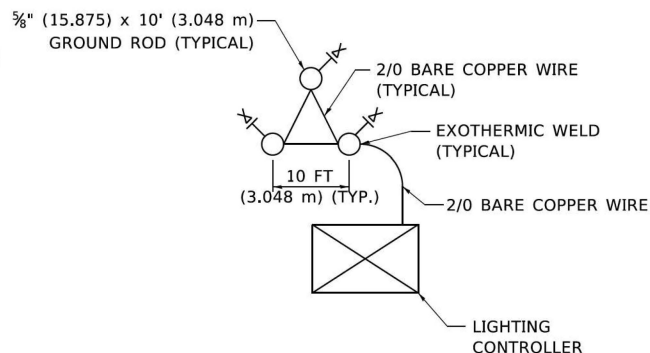
LEFT SIDE ELEVATION



FRONT ELEVATION



GROUND WELL DETAIL



GROUND FIELD DETAIL
(N.T.S.)

THE CONTRACTOR SHALL
VERIFY EXACT LOCATION
WITH THE ENGINEER

1-INCH (25.4) PVC TO GROUND FIELD
OF 3 GROUND RODS IN A 10 FT (3.048 m).
TRIANGLE CONNECTED VIA BARE COPPER
WIRE. VERIFY EXACT LOCATION OF
GROUND FIELD WITH THE ENGINEER.
NO GROUND WELL SHALL BE PLACED
IN CONCRETE PAD IN FRONT OF CONTROLLER.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA - FIBER OPTIC PROVISION

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	578
BE-206		CONTRACT NO. 62R22		
ILLINOIS		FED. AID PROJECT		

NOTES

1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.

2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.

3. NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.

5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.

6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.

7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.

8. METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.

9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.

10. ALL DEVICES SHALL BE FRONT REMOVABLE.

11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).

12. SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)

13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.

14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.

15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.

16. ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.

17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.

18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R = RED
B = BLACK
BL = BLUE

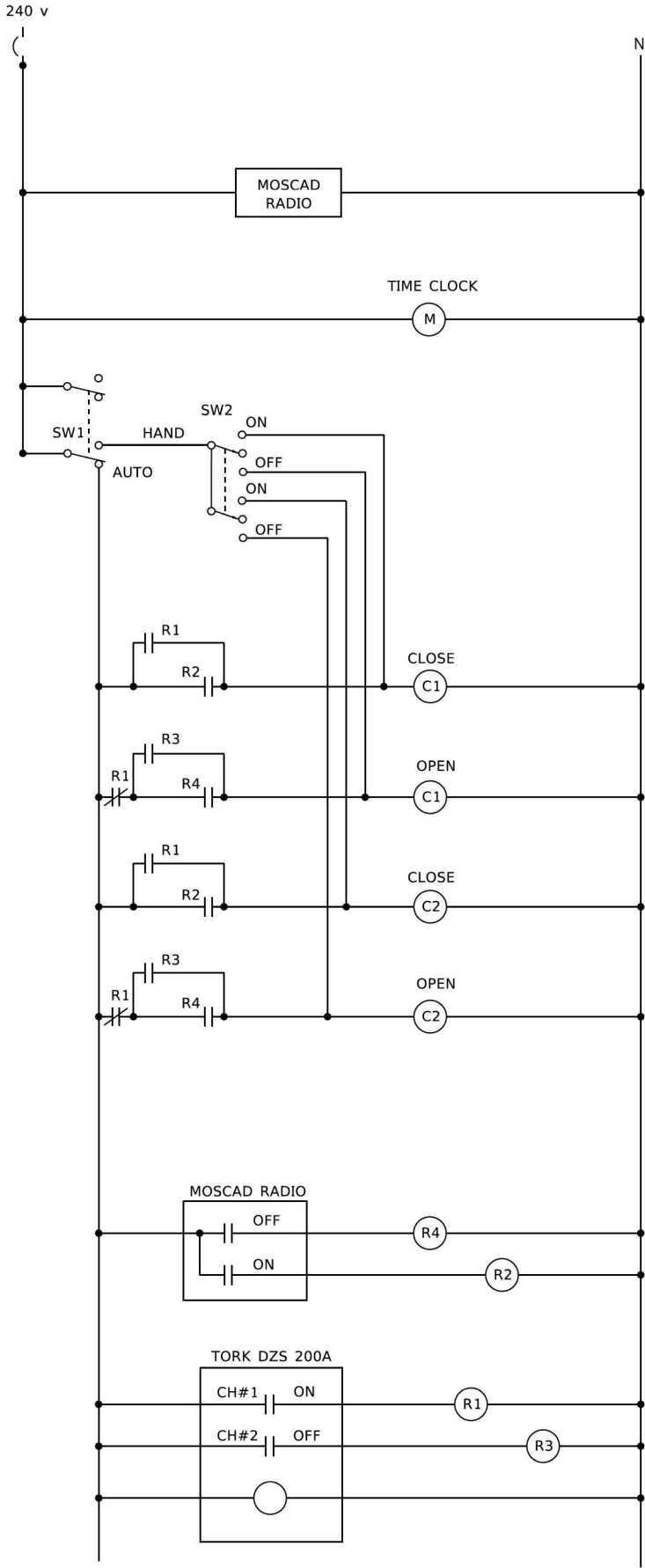
Y = YELLOW
W = WHITE
G = GREEN
G = GREY

19. MOSCAD I/O WIRING SHALL BE:
DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.
ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.
AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.

20. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.

21. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).

22. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



MOSCAD I/O ASSIGNMENTS		
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

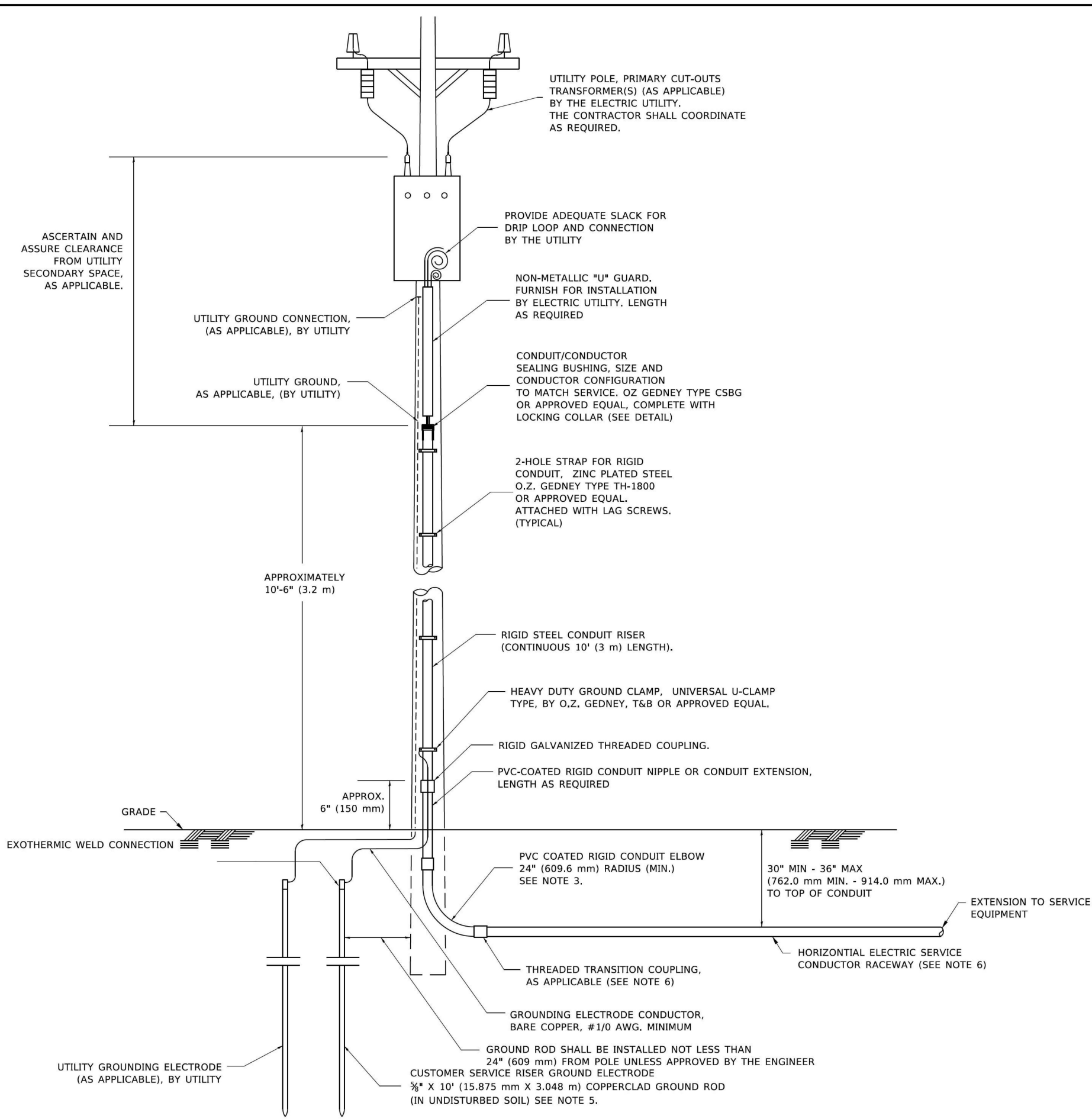
ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD

MIXED I/O MODULE MODEL NUMBER V436

CONTROL CIRCUIT LADDER LOGIC DIAGRAM

LT-48

MODEL Default FILE Name: Proj\planroom.dwt Project: D:\HSH\427234\CAD\Drawal\CABsheets\be206.dgn	USER NAME = leysa		DESIGNED - R. TOMSONS	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL) RADIO SCADA – FIBER OPTIC PROVISION				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - _____		CHECKED - _____	REVISED - _____						80	FAI 80 21 INTERCHANGE	WILL	1209	579
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	PLOT DATE = 1/15/2020		DATE - 01-15-2020	REVISED - _____						ILLINOIS		FED. AID PROJECT		

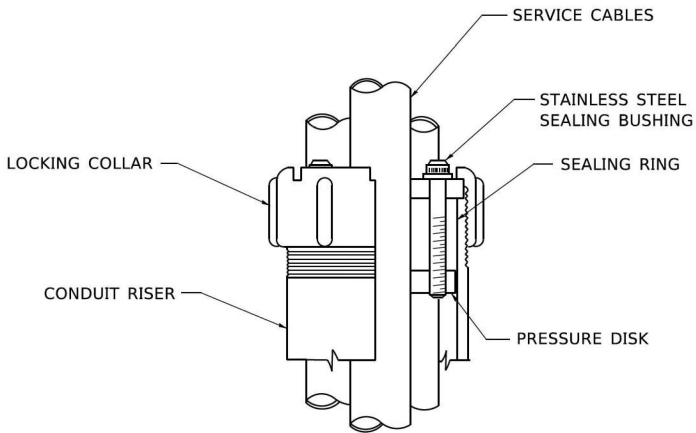


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

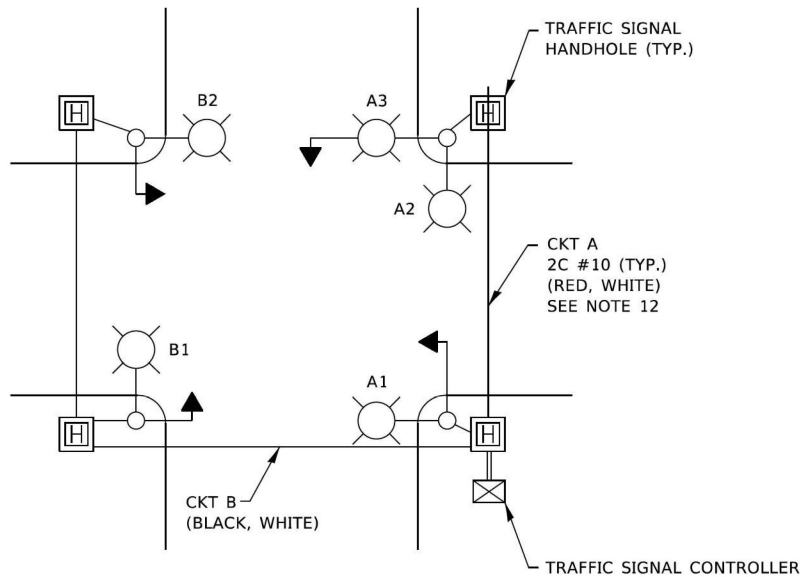
- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



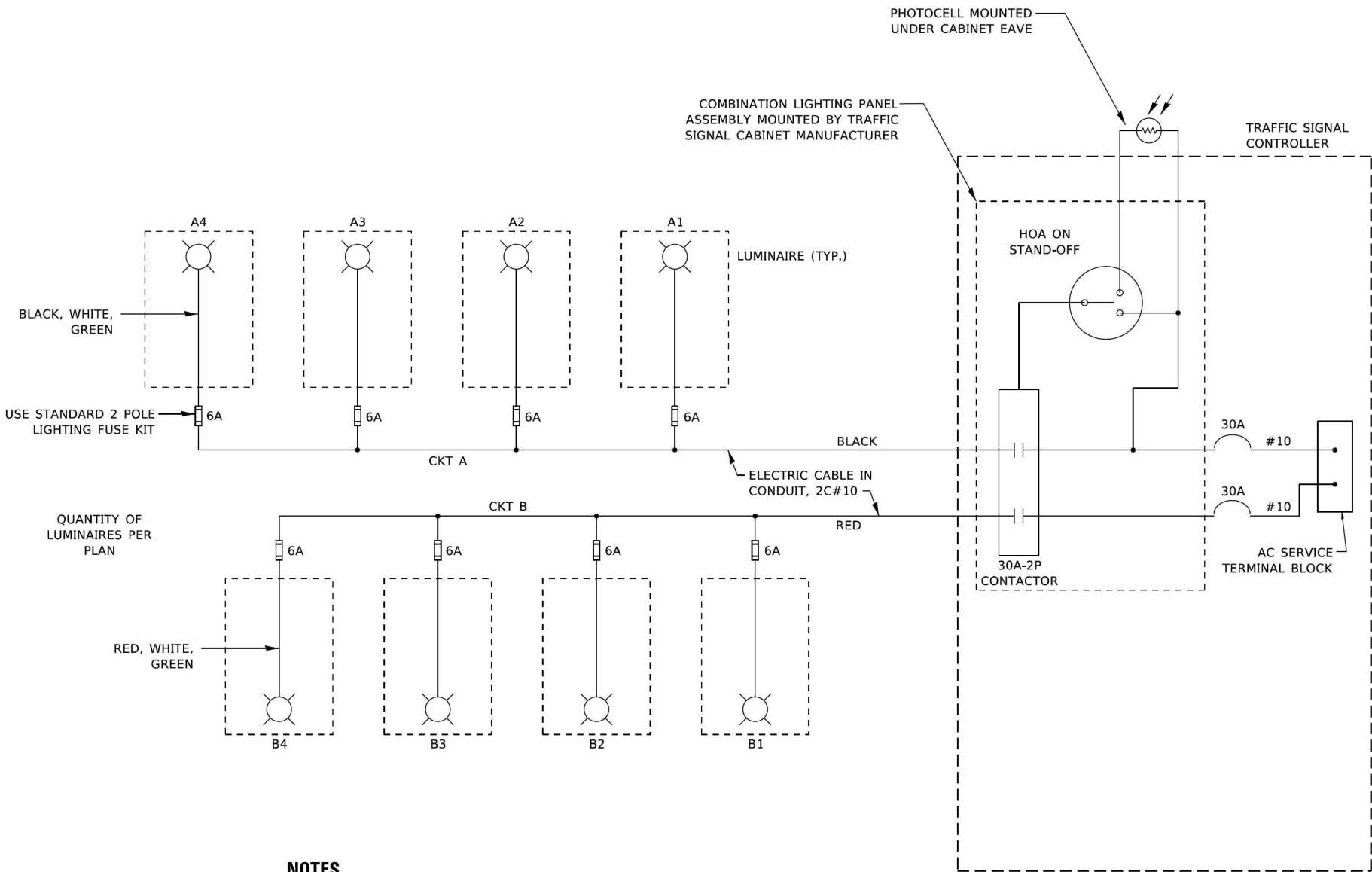
SEALING BUSHING DETAIL

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	USER NAME = footem]	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 4/19/2019	CHECKED - MEA	REVISED -		BE-220			CONTRACT NO. 62R22				
		DATE -	REVISED -		SCALE: NONE			SHEET 1	OF 1	SHEETS	STA.	TO STA.
								ILLINOIS			FED. AID PROJECT	

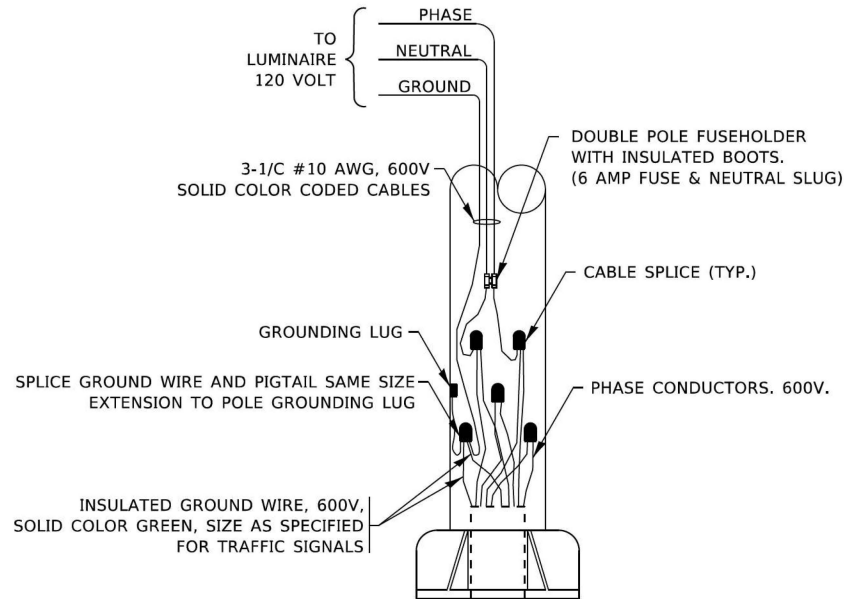


TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. TWO #10 (XLP-TYPE USE) CABLES TO BE USED FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. FOR LIGHTING CIRCUITS, CONNECT TWO CIRCUIT BREAKERS TO AC SERVICE TERMINAL BLOCK.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V
11. POLE WIRING & FUSE KITS ARE INCLUDED IN THE LUMINAIRE PAY ITEM.
12. THE UNDERGROUND EQUIPMENT GROUND WIRE IS SHOWN IN THE TRAFFIC SIGNAL PLANS AND IS INCLUDED IN THE SIGNAL PLANS. IT IS SHARED GROUND BETWEEN SIGNALS AND LIGHTING.



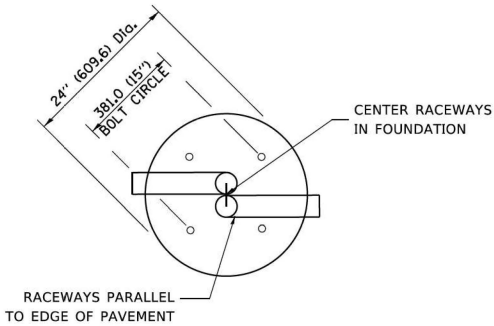
COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

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PLOT DATE = 5/5/2022	DATE - 08/18/2014	REVISED - T.G. 5/05/2022

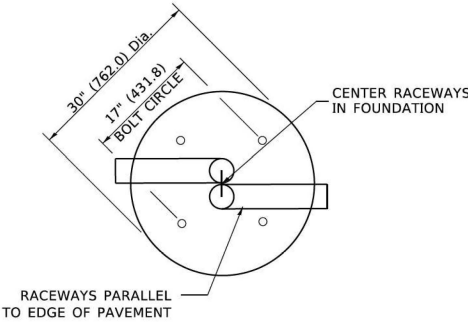
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	581
BE-240		CONTRACT NO. 62R22		
		ILLINOIS	FED. AID PROJECT	

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND φ = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND φ = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND φ = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)



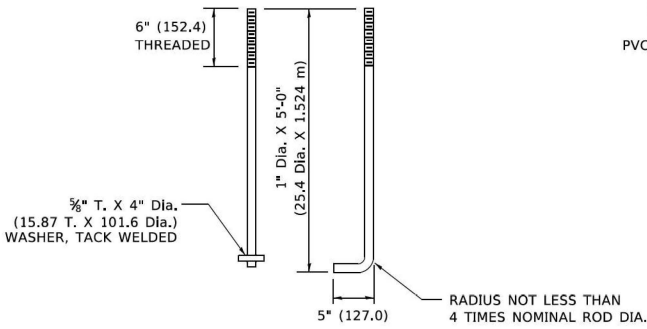
TOP VIEW



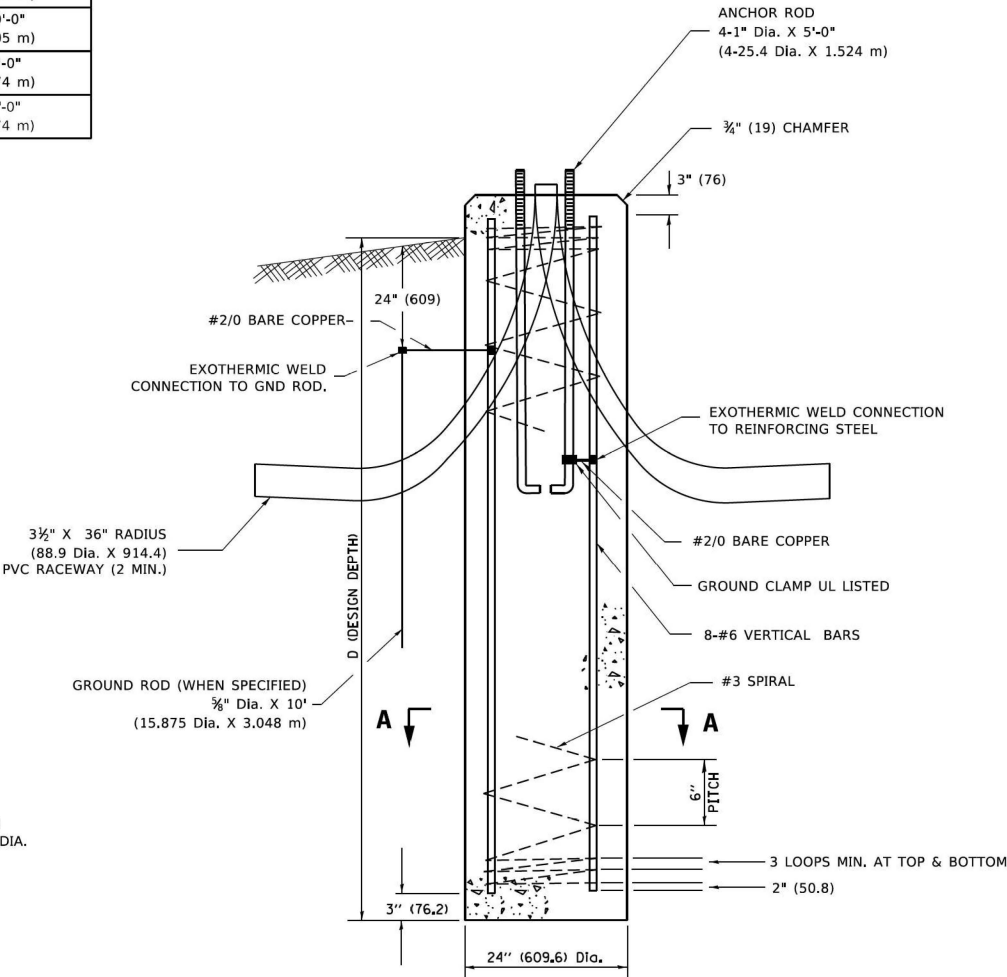
TOP VIEW

NOTES

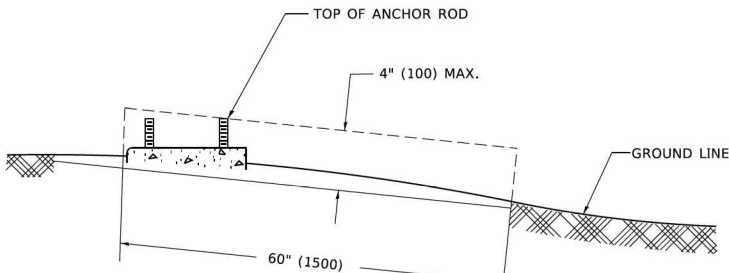
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION. WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 23#4" (59.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



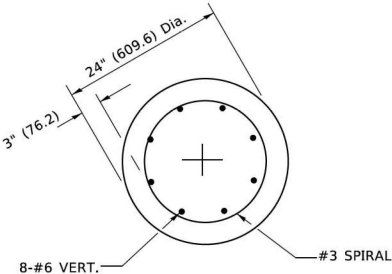
ANCHOR ROD DETAIL



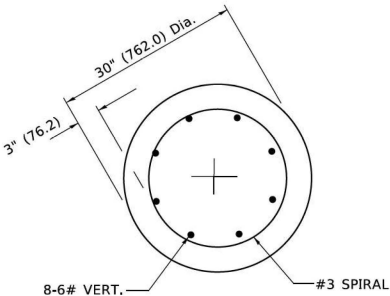
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



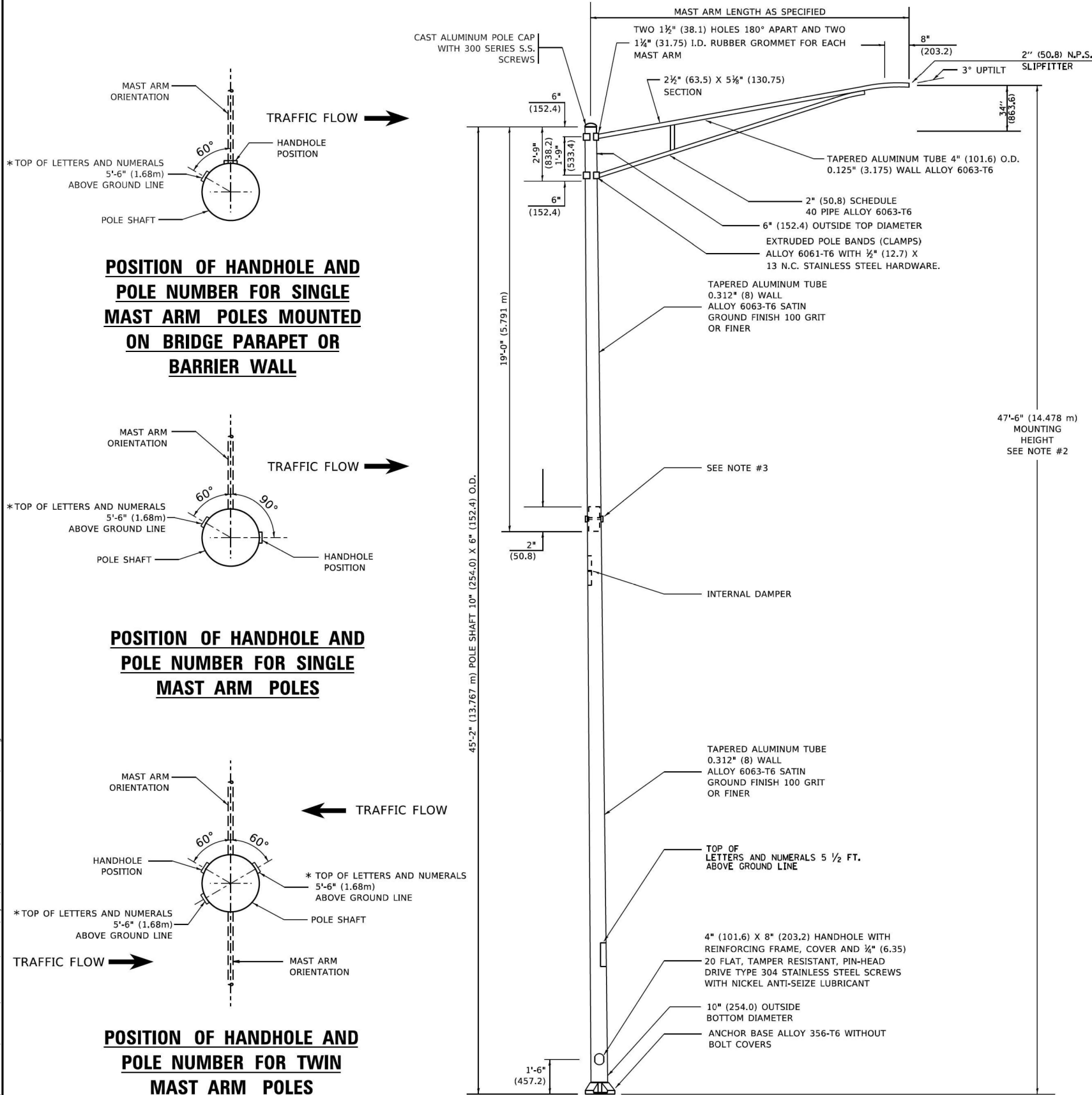
SECTION A-A



SECTION A-A

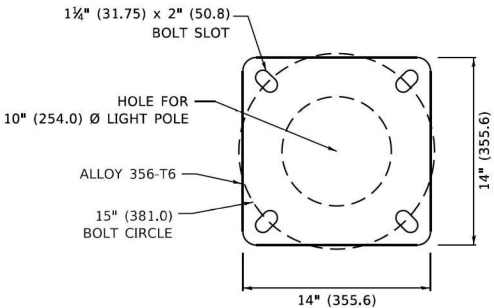
LT-51

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		DRAWN -	REVISED -		40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE				80	FAI 80 21 INTERCHANGE	WILL	1209	582
	PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -						BE-301		CONTRACT NO. 62R22		
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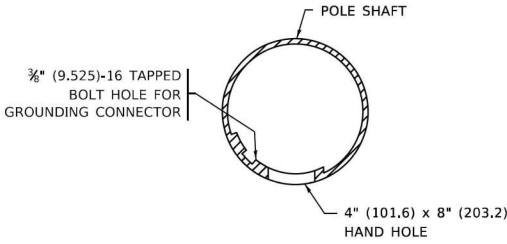
NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
- THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
- LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
- LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
- LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



LIGHT POLE BASE PLATE DETAIL

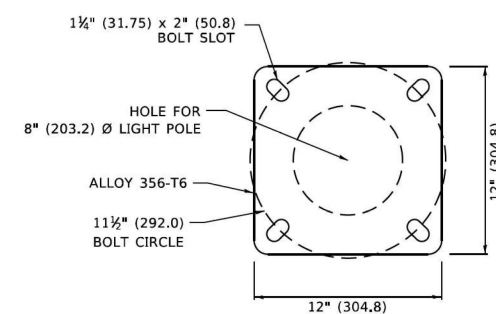
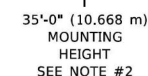
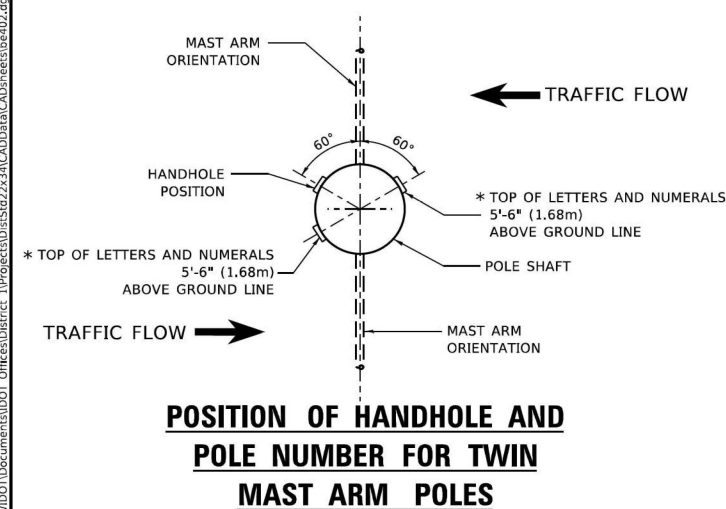
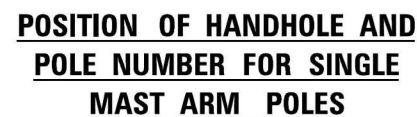
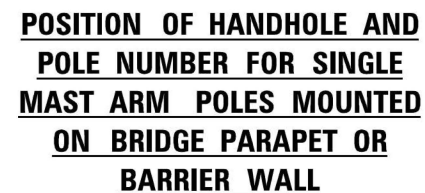
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL

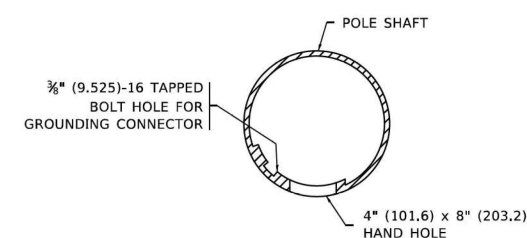
(N.T.S.)

	USER NAME = Lawrence,DeManche	DESIGNED -	REVISED - R. TOMSONS 01-18-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALUMINUM LIGHT POLE 47'-6" (14.478 m) MOUNTING HEIGHT			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. TOMSONS 03-18-15					80	FAI 80 21 INTERCHANGE	WILL	1209	583
	PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - TG 06-13-22					BE-400		CONTRACT NO. 62R22		
	PLOT DATE = 12/19/2023	DATE -	REVISED - R. TOMSONS 12-19-23		SCALE: NONE		SHEET 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT	



LIGHT POLE BASE PLATE DETAIL

11½" (292.0) BOLT CIRCLE



HANDHOLE DETAIL (N.T.S.)

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED SPRING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
6. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
7. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

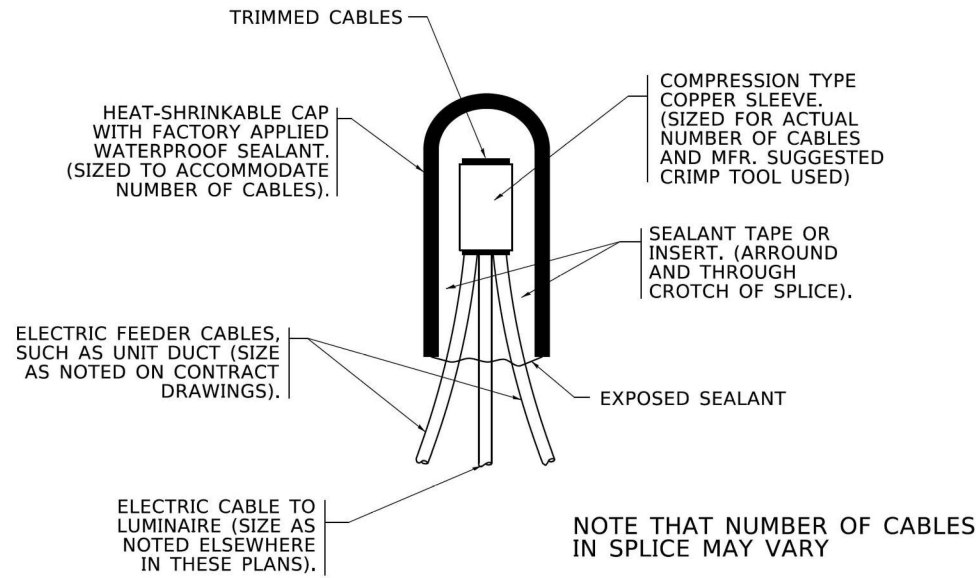
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

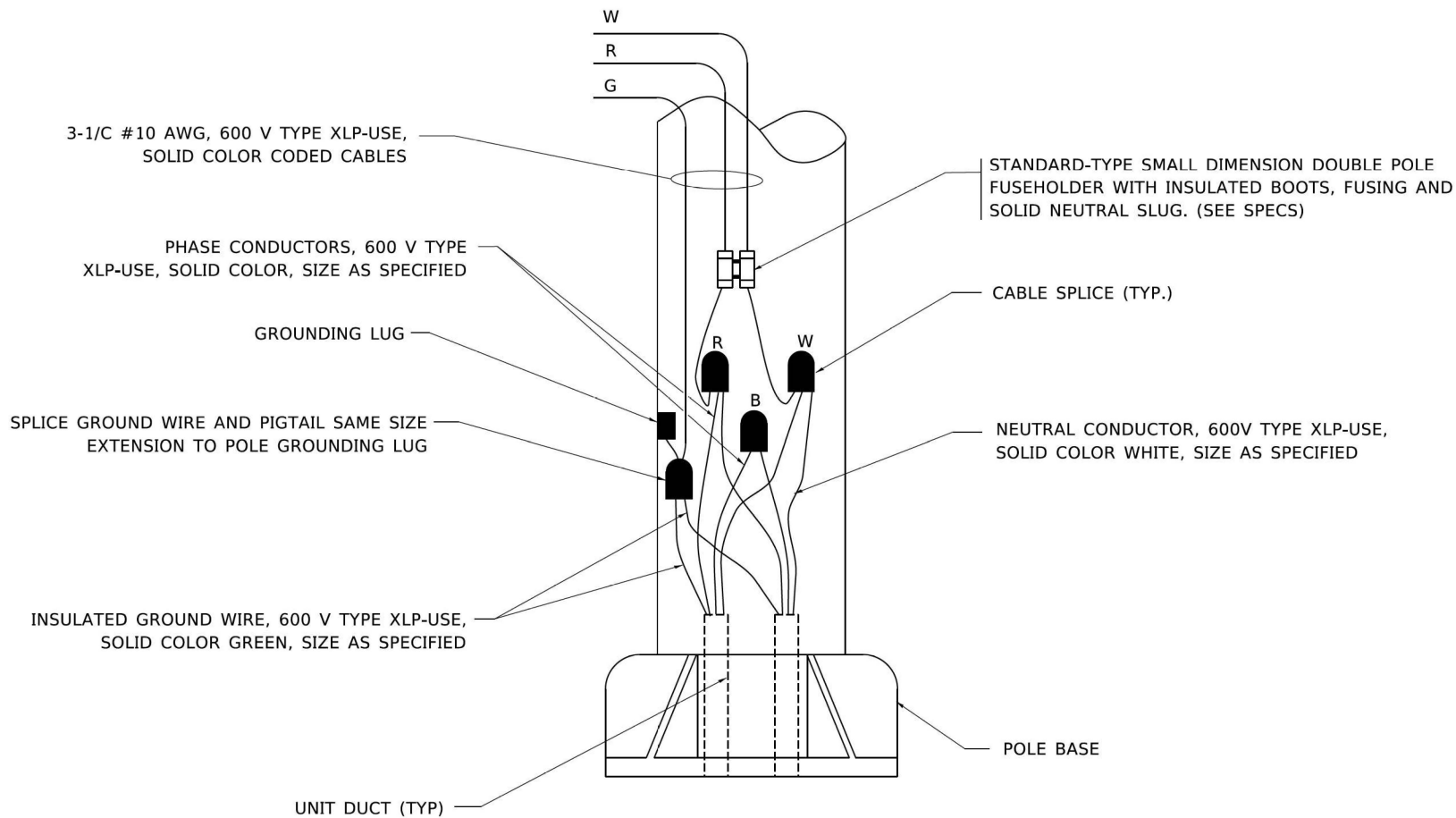
ALUMINUM LIGHT POLE
35'-0" (10.668 m) MOUNTING HEIGHT

SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.
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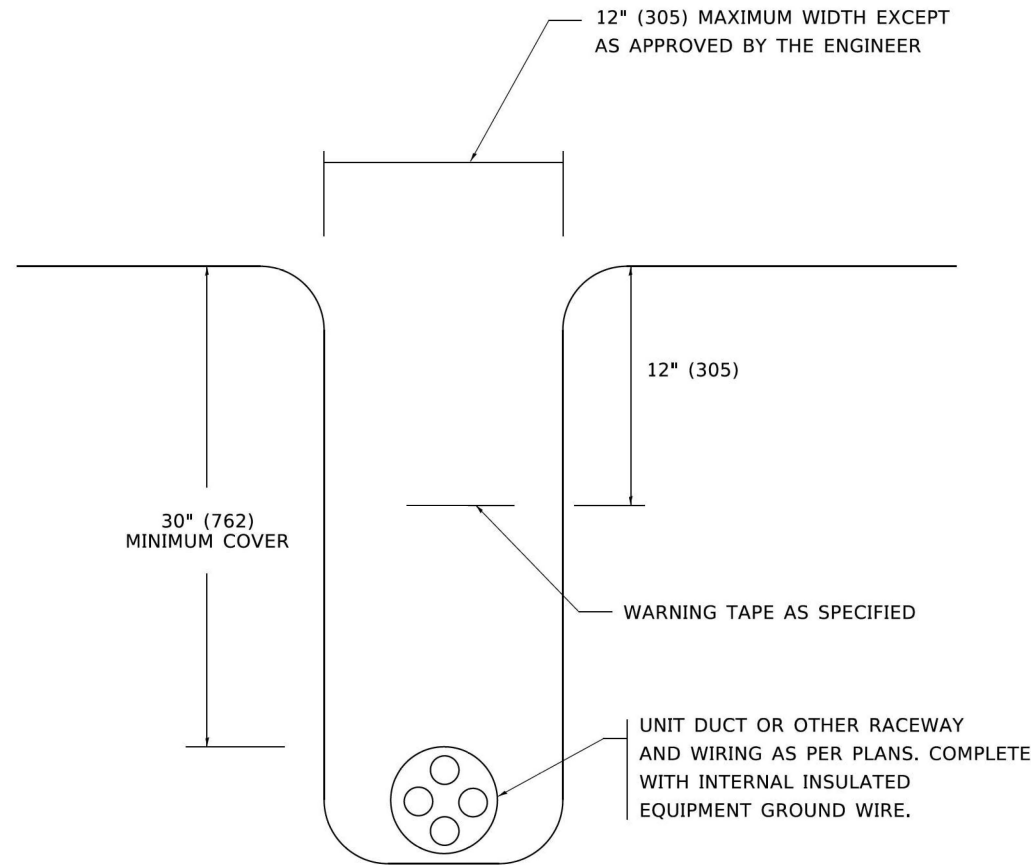
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	584
BE-402		CONTRACT NO. 62R22		
	ILLINOIS	FED. AID PROJECT		



TYPICAL SPLICE DETAIL
N.T.S.

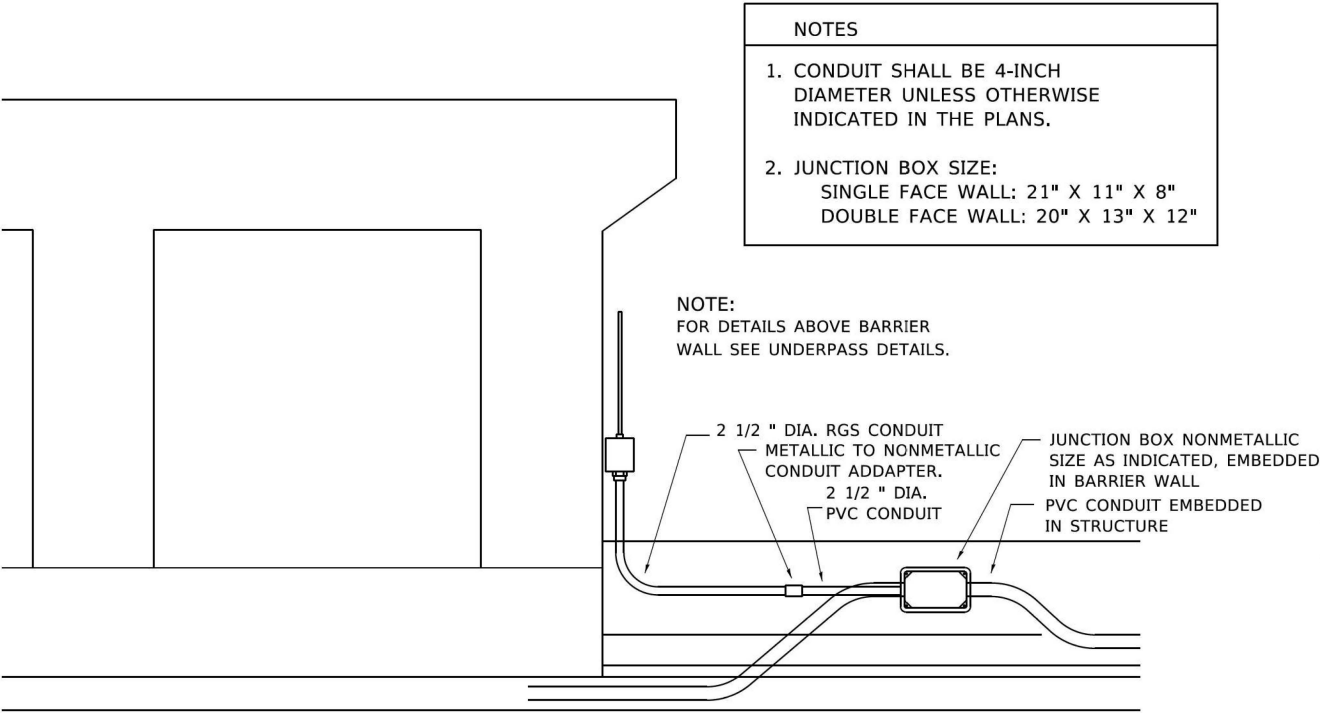


POLE WIRING DETAIL
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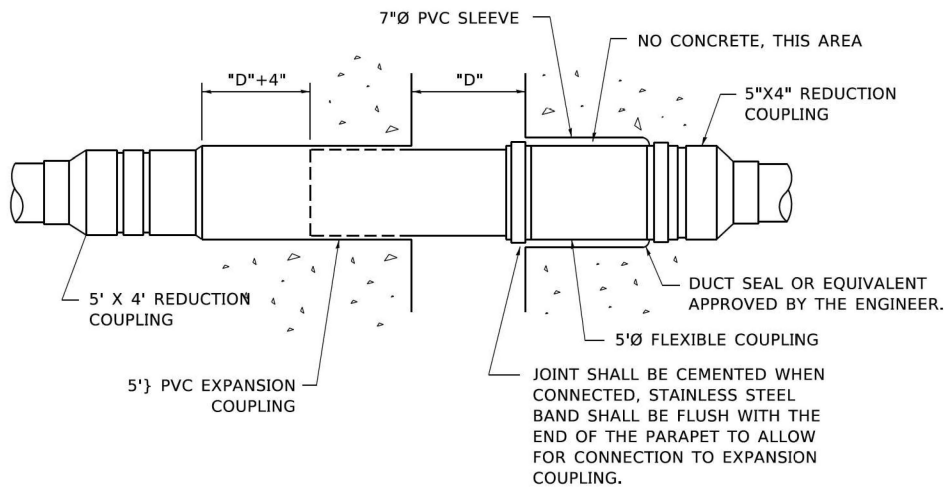


TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

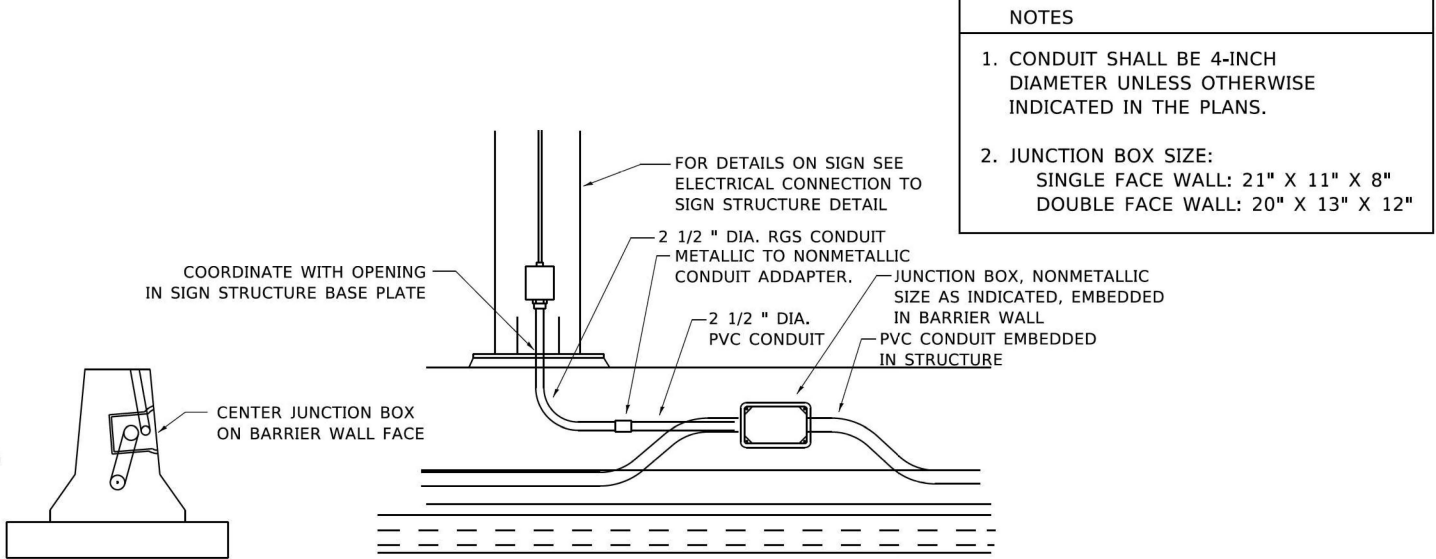
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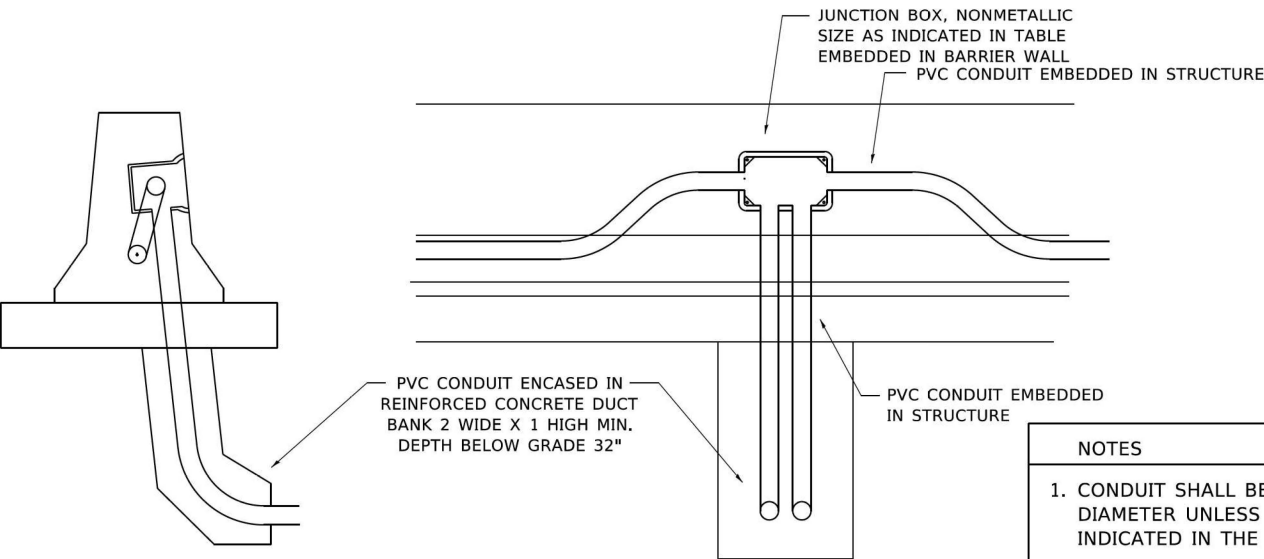
ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING



**INSTALLATION OF CONDUIT
IN BRIDGE PARAPET EXPANSION JOINT**
(N.T.S.)



ED - SGN
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING



ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL

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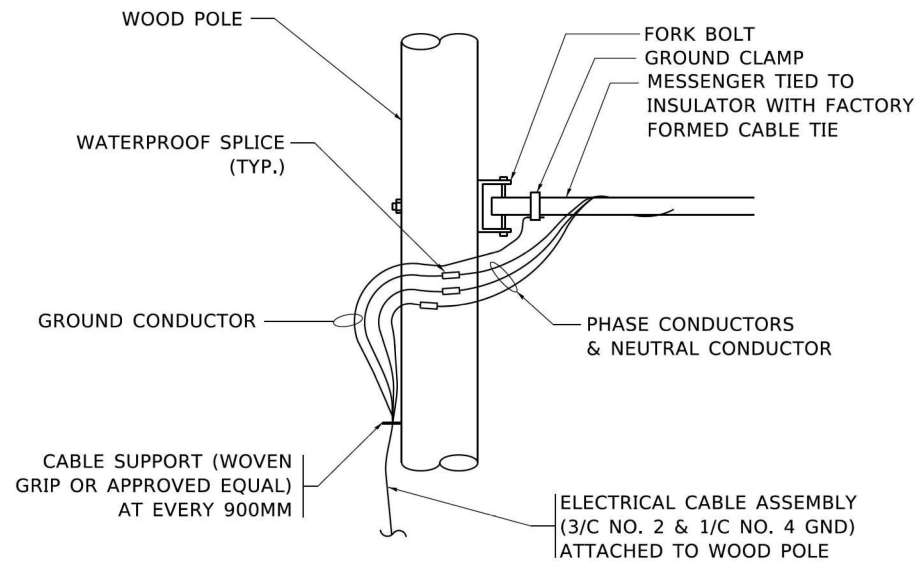
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DRAWN -	REVISED -	
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PLOT DATE = 4/19/2019	DATE - 01-20-2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS ELECTRICAL DETAILS, SHEET B			
J BOX EMBEDDED IN BARRIER WALL - INSTALLATION OF CONDUIT IN BRIDGE PARAPET EXPANSION JOINT - ELECTRIC CONNECTION TO UNDERPASS LIGHTING			
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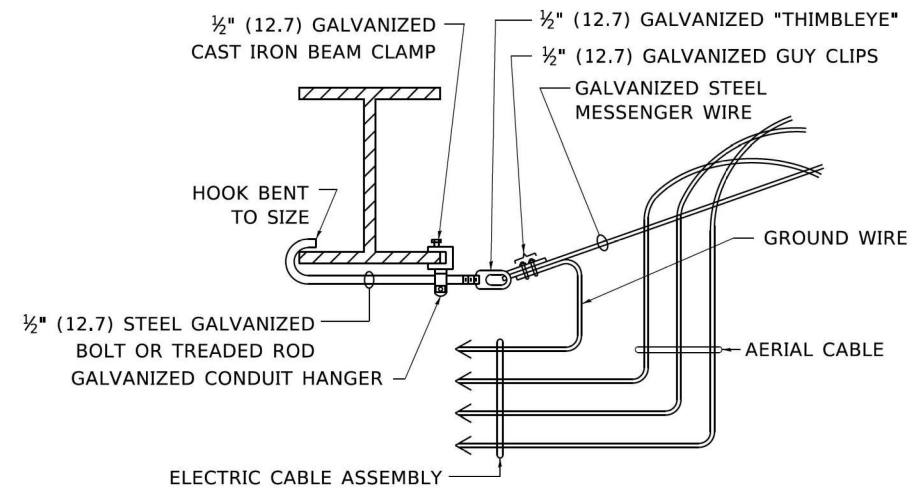
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BE-703		CONTRACT NO. 62R22		
ILLINOIS		FED. AID PROJECT		

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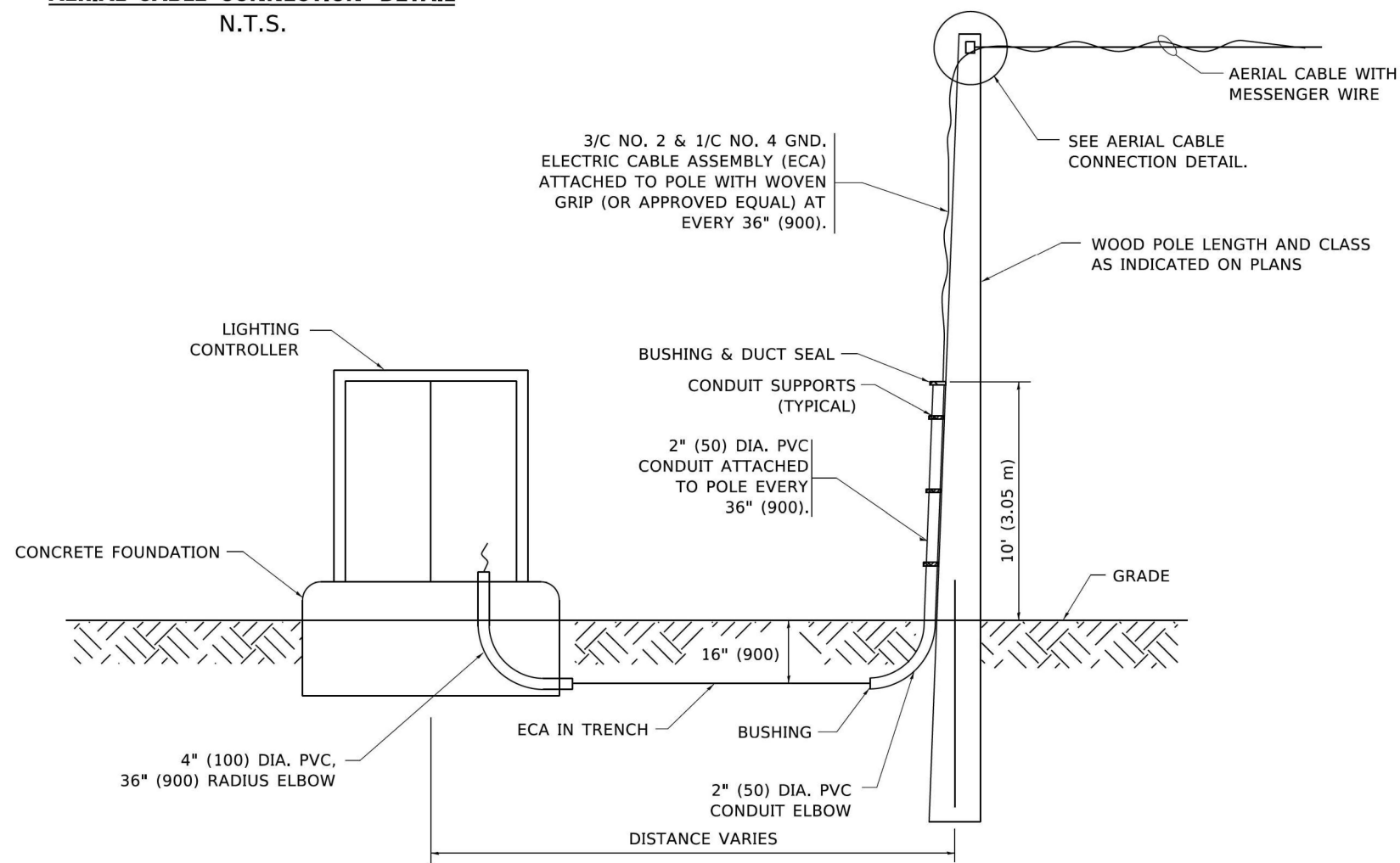
AERIAL CABLE CONNECTION DETAIL

N.T.S.



**AERIAL CABLE
ATTACHED TO STRUCTURE**

NOT TO SCALE



**WOOD POLE TO LIGHTING CONTROLLER
WIRING CONNECTION DETAIL**

N.T.S.

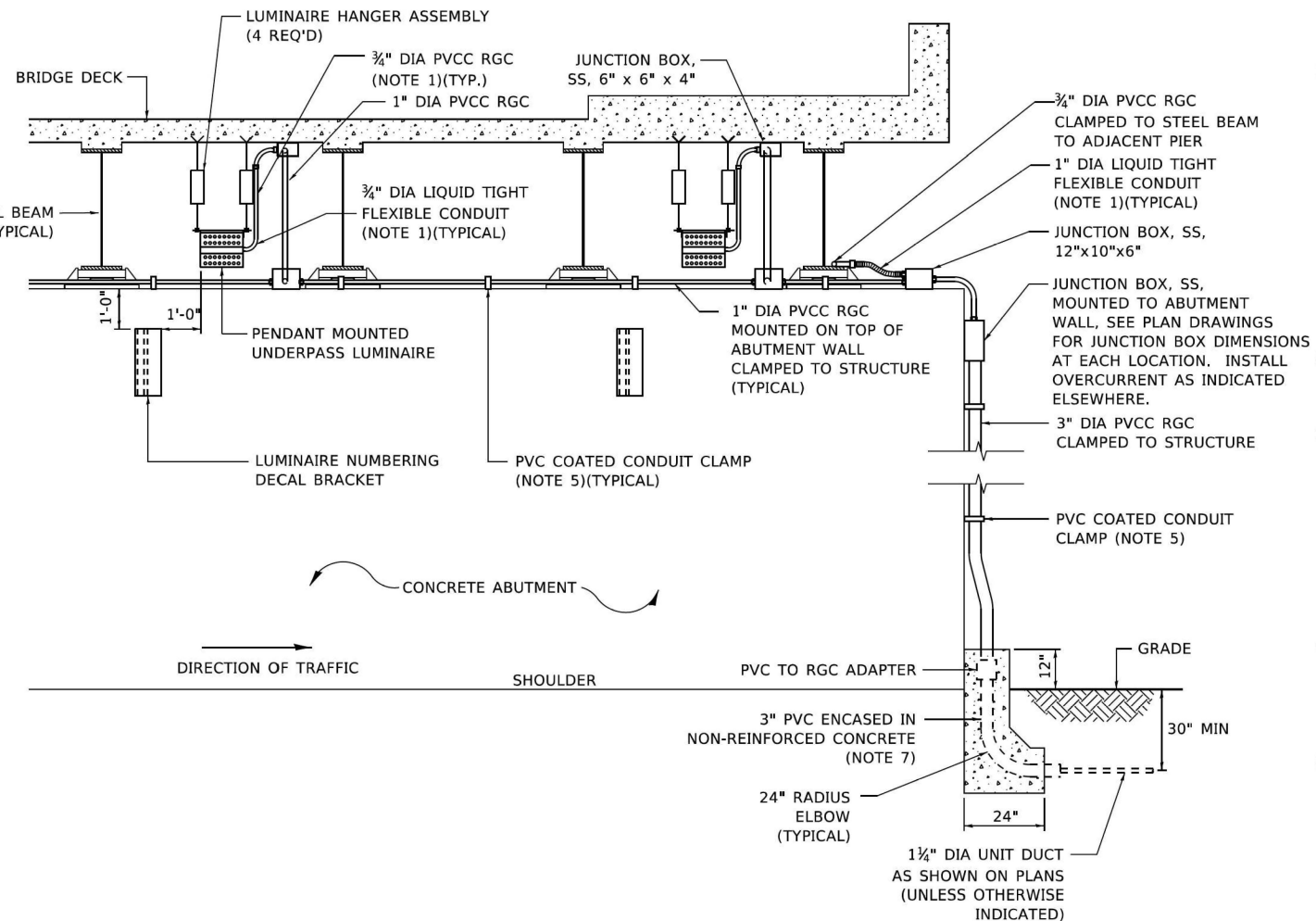
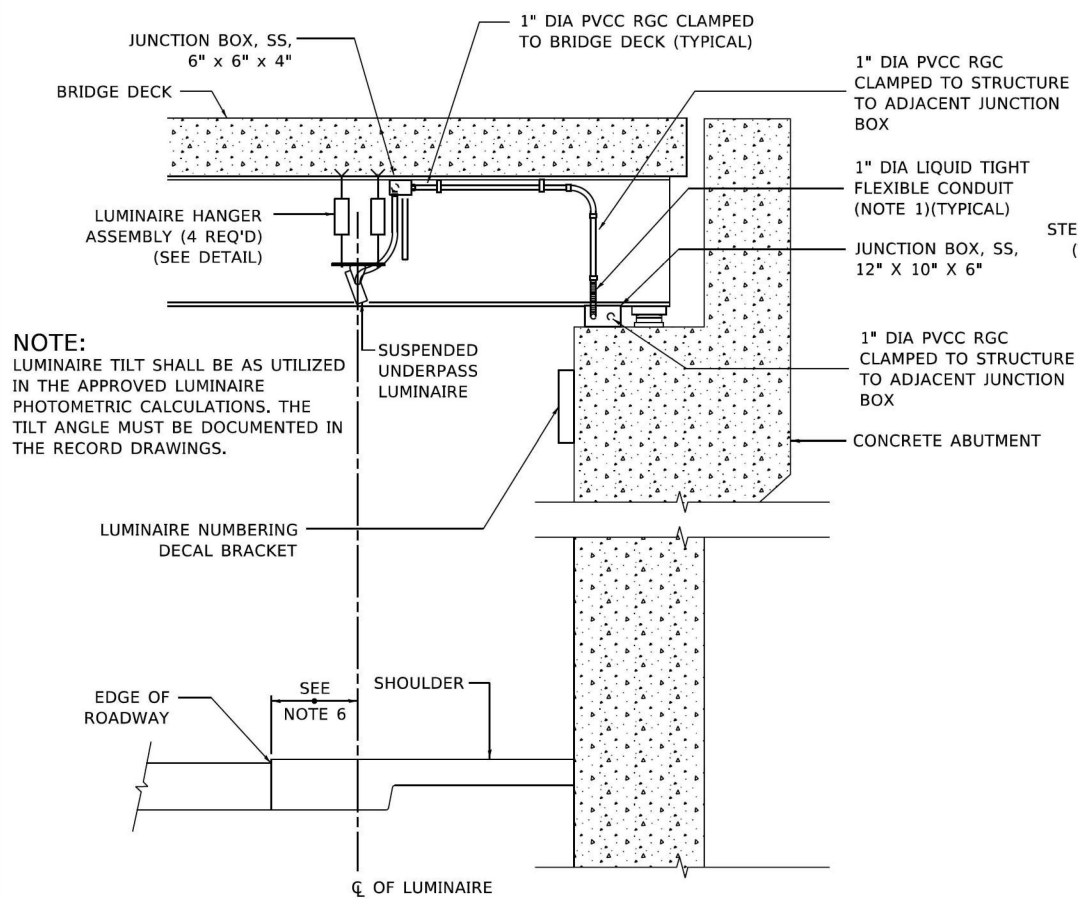
NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

LT-58

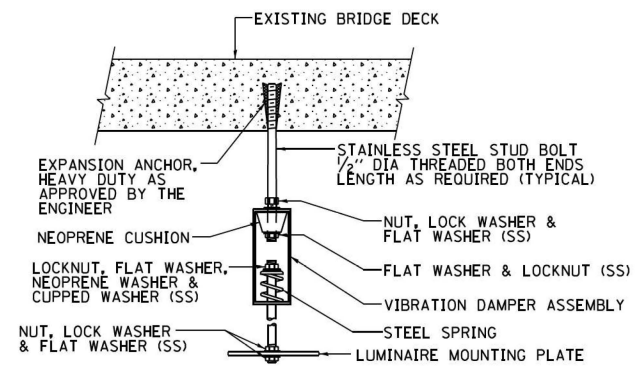
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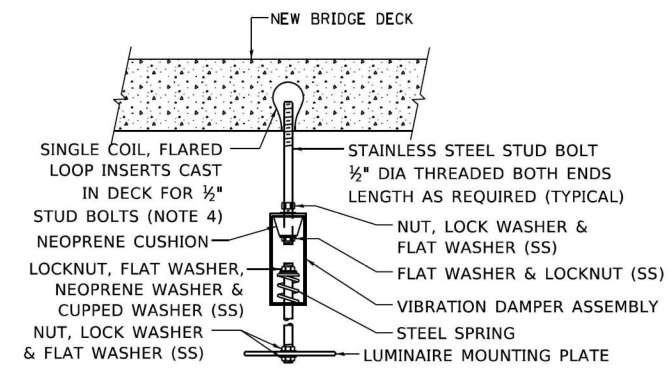


NOTES:

1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT " DIA. CONDUIT AND " DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
2. SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
3. THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
4. THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
5. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
6. ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
7. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.
9. IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER).

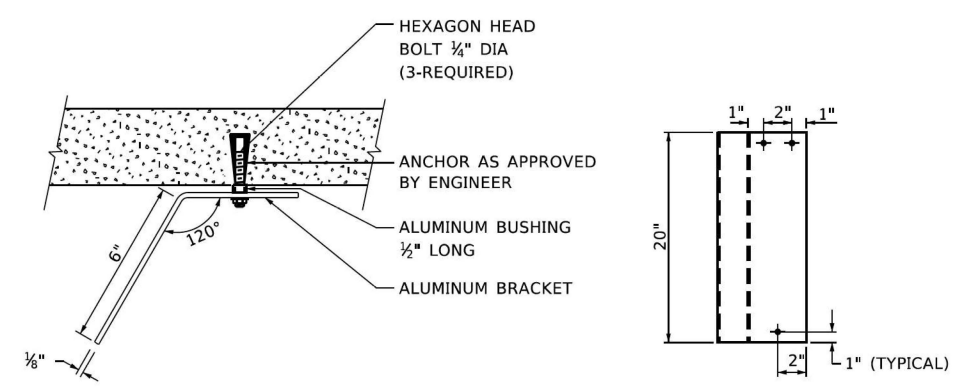


EXISTING BRIDGE DECK INSTALLATION



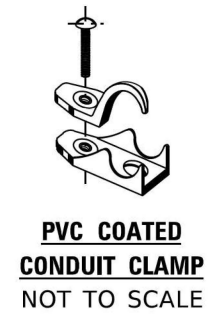
NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



LUMINAIRE NUMBERING DECAL BRACKET

NOT TO SCALE



	USER NAME = gaglianobt	DESIGNED -	REVISED - 12-12-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -						BE-901					CONTRACT NO. 62R22	
	PLOT DATE = 1/15/2020	DATE -	REVISED -												
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TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

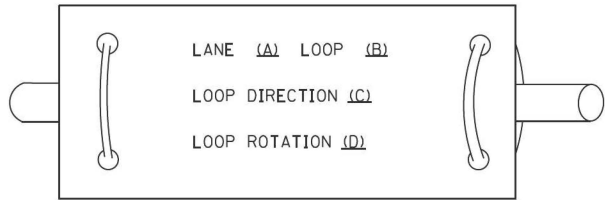
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM	S	SP	FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM	I	IP	GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM		R			
SIGNAL HEAD			RELOCATE ITEM		RL			
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM		A			
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF			
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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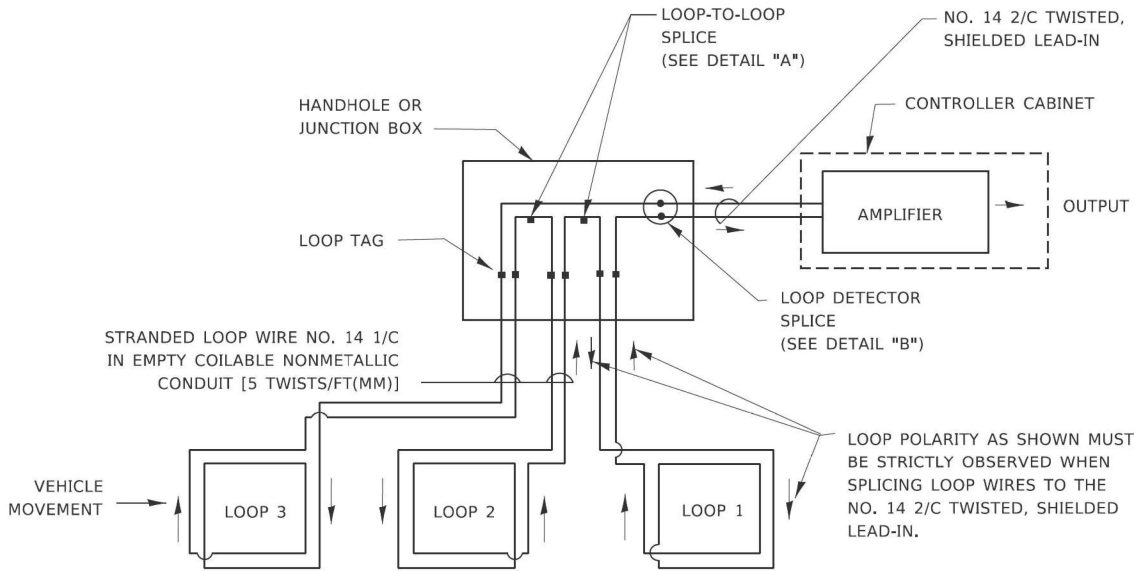
LOOP DETECTOR NOTES

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

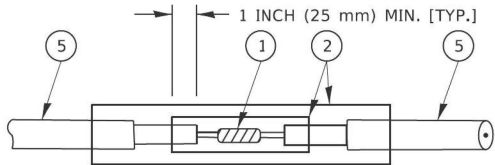


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

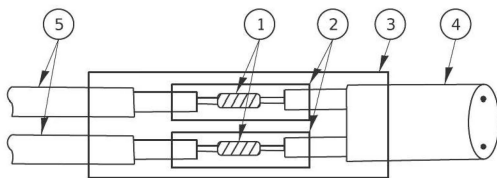


DETECTOR LOOP WIRING SCHEMATIC

- 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.

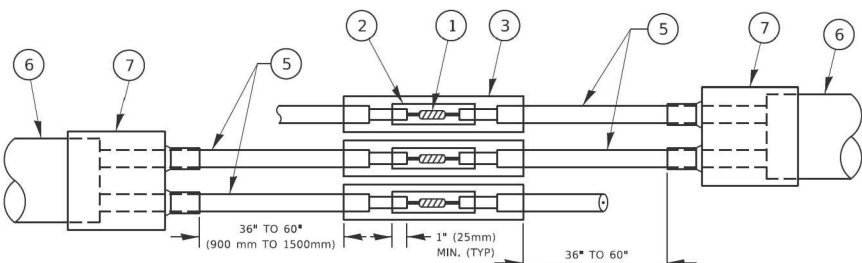


DETAIL "A"
LOOP-TO-LOOP SPLICE

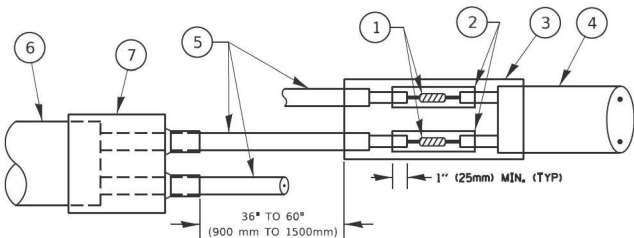


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

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. PREFORMED LOOP

⑥ XL POLYOLEFIN 2 CONDUCTOR

⑦ BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

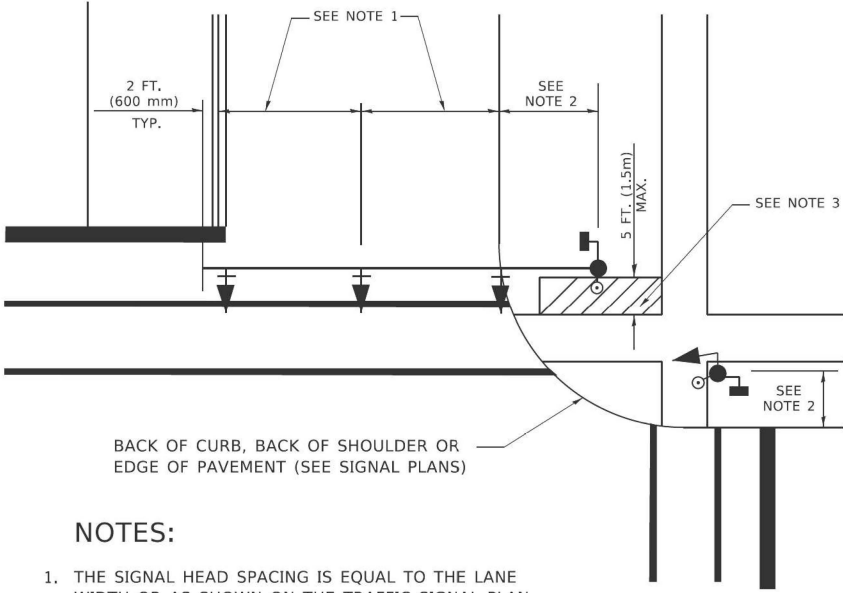
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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

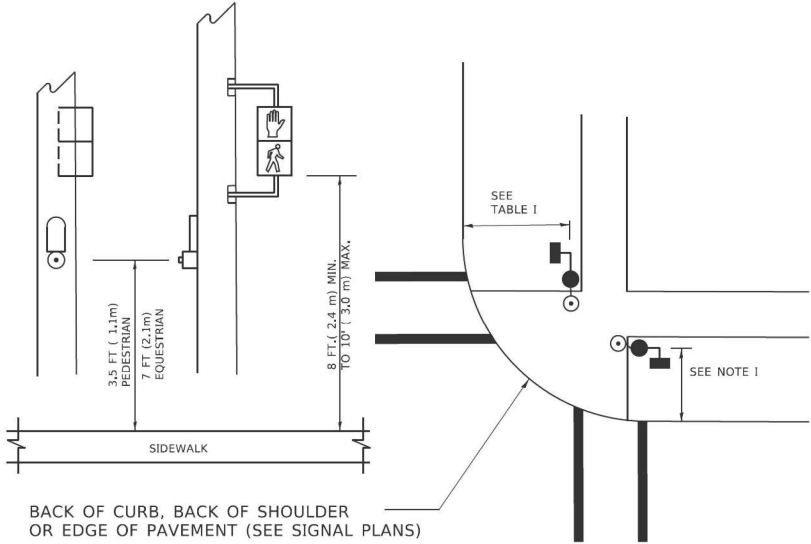
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

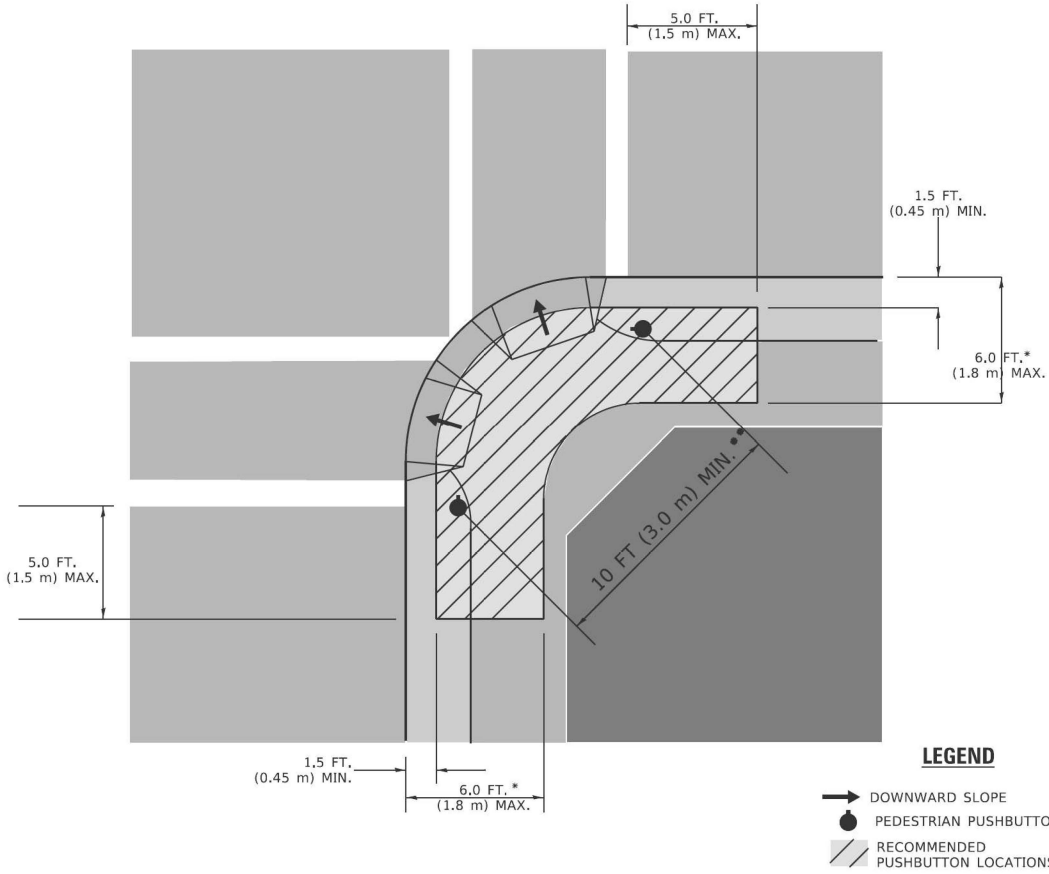
PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST



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 = footemj	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DRAWN -	REVISED -		STANDARD TRAFFIC SIGNAL DESIGN DETAILS				80	FAI 80 21 INTERCHANGE	WILL	1209	593	
PLOT SCALE = 50,0000 ' / 1"	CHECKED -	REVISED -						TS-05					
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.				CONTRACT NO.62R22					
								ILLINOIS		FED. AID PROJECT			

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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)

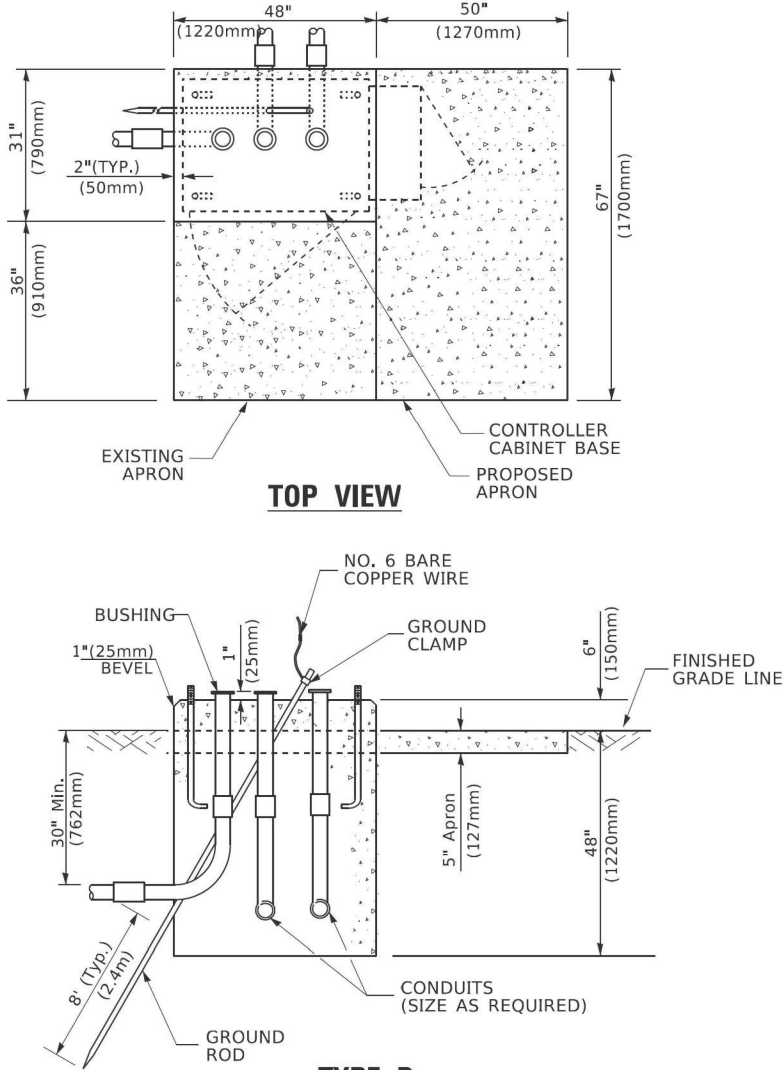
DEPTH OF FOUNDATION

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)

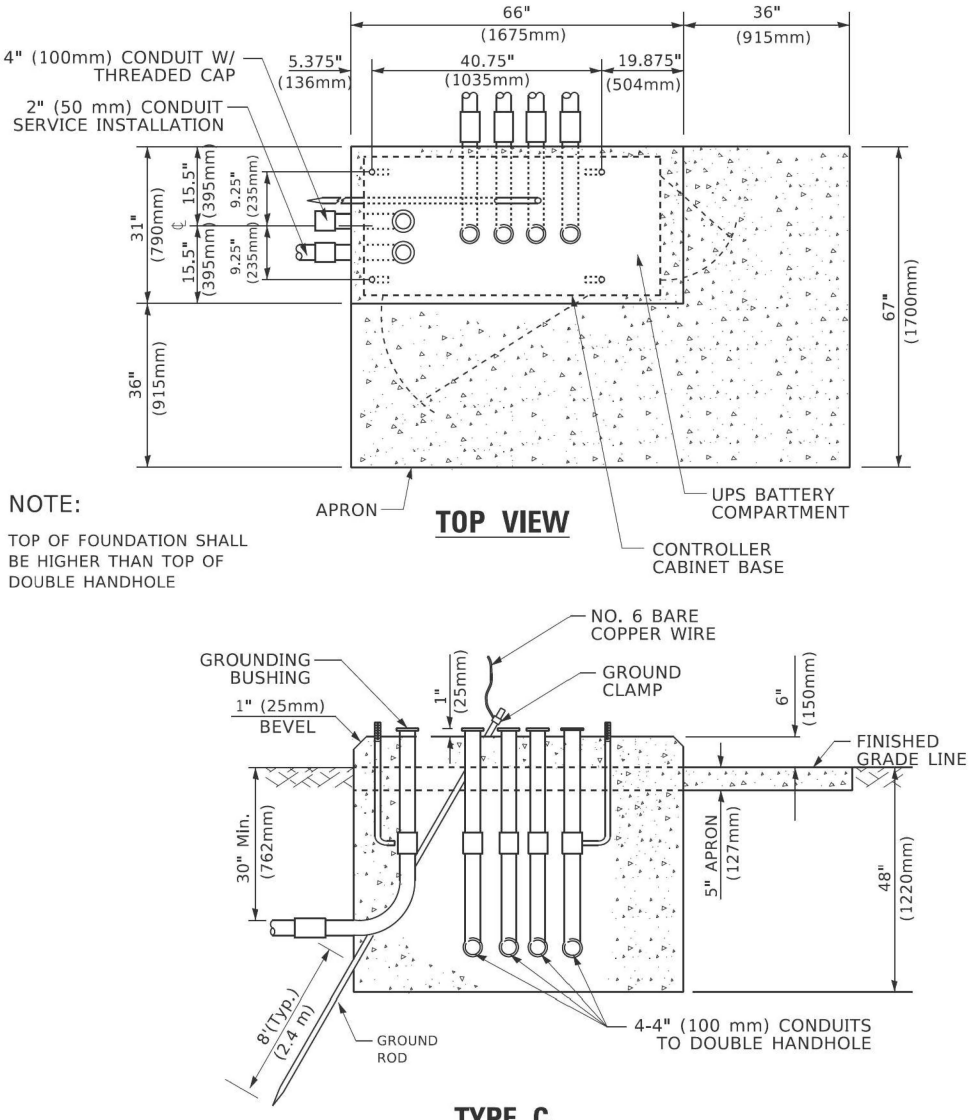
NOTES:

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..

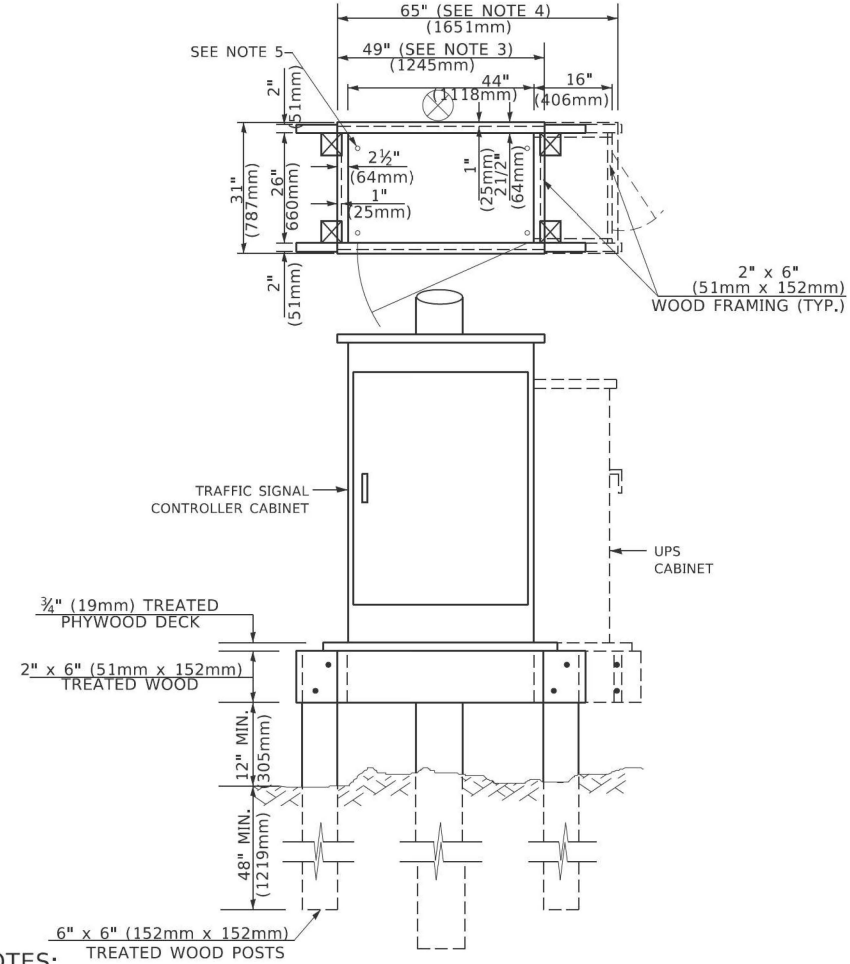
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



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

USER NAME = [footem]	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000' = 1"	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

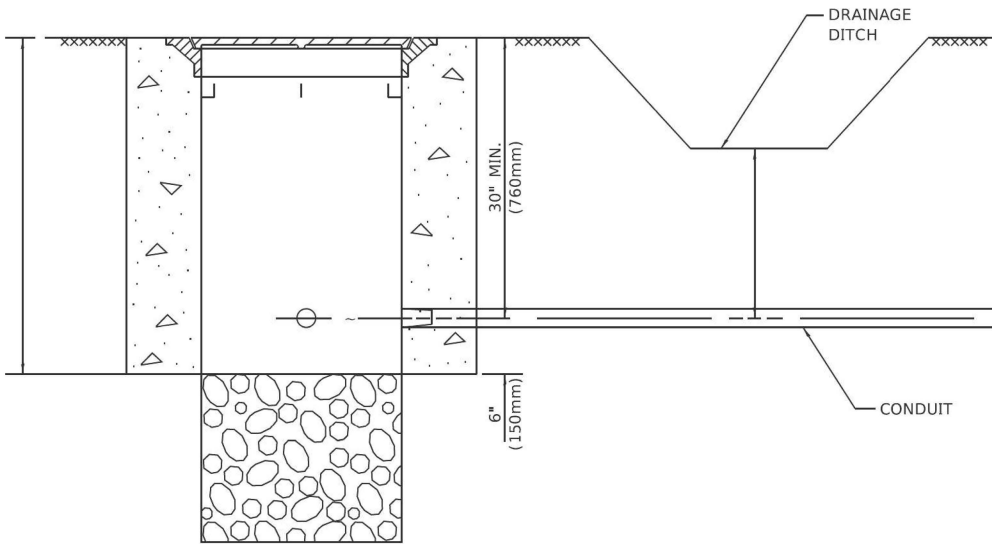
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	595
TS-05		CONTRACT NO.62R22		
ILLINOIS		FED. AID PROJECT		

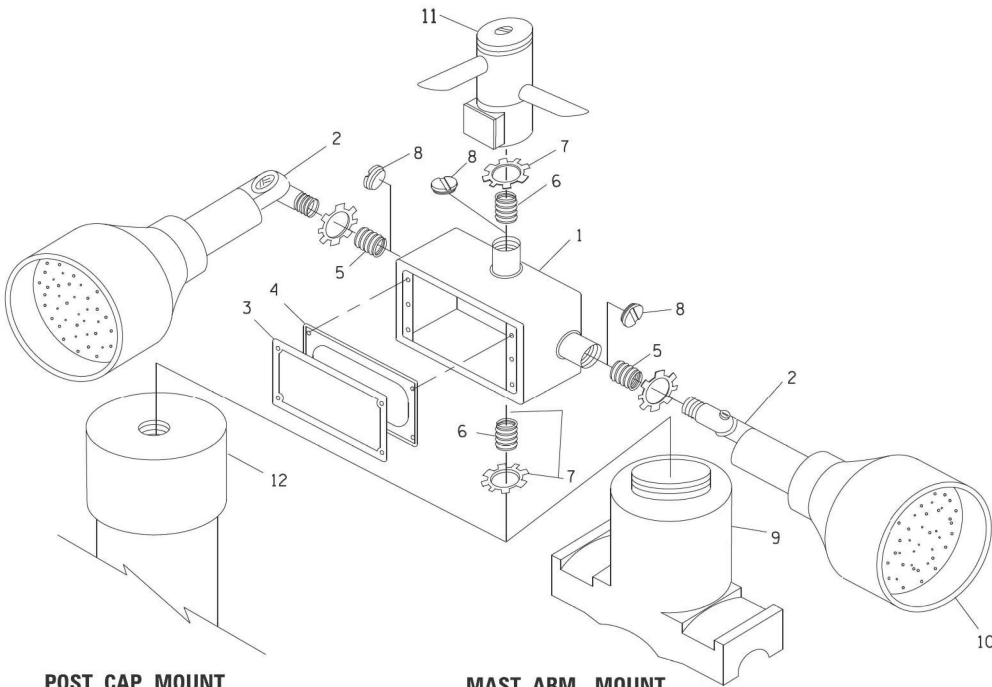
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NOTES:

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.

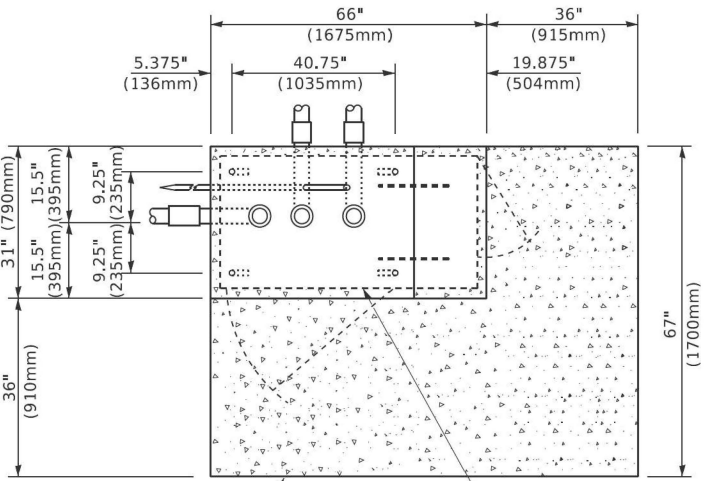
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



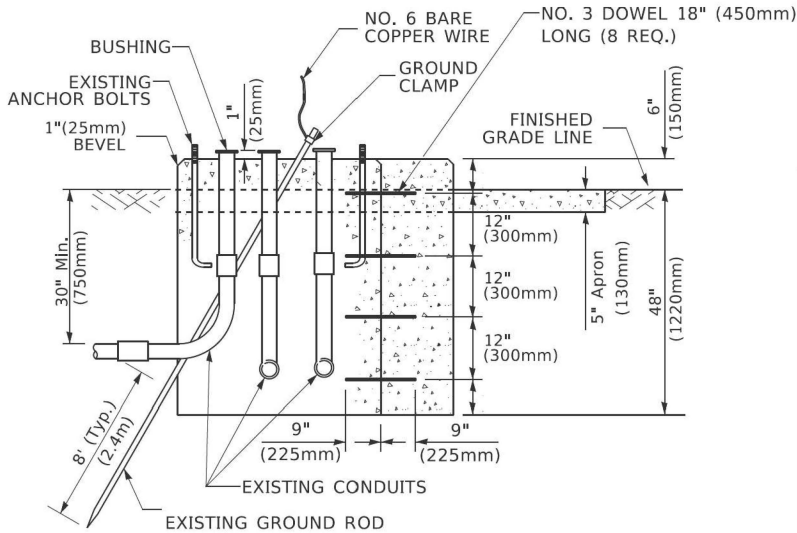
POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL



PROPOSED APRON
TOP VIEW
(NOT TO SCALE)
CONTROLLER CABINET BASE

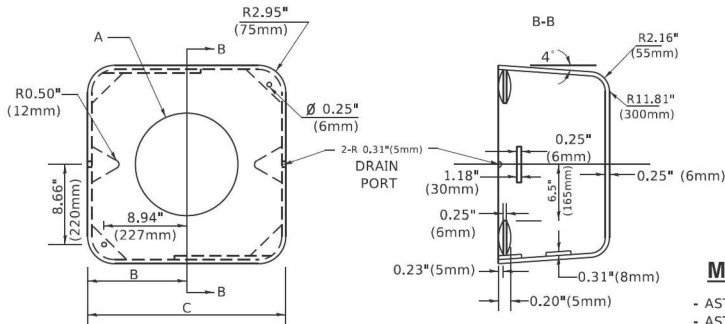


MODIFY EXISTING TYPE "D" FOUNDATION
TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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.



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)

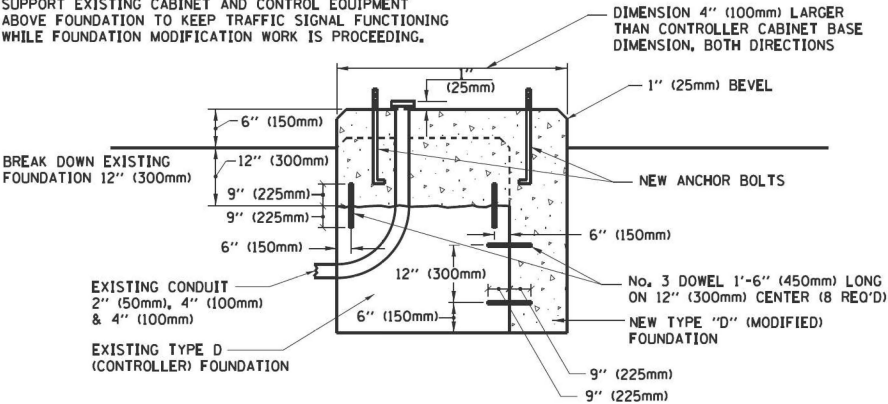
SHROUD

NOTES:

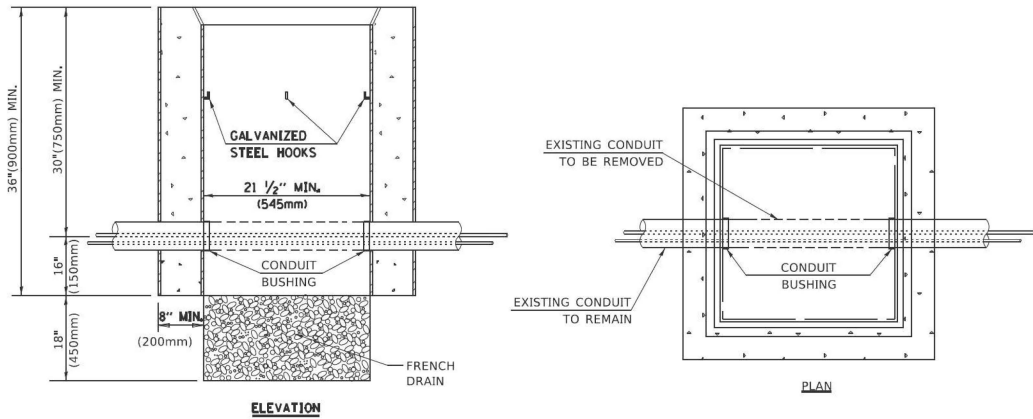
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE 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 = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / 1"	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

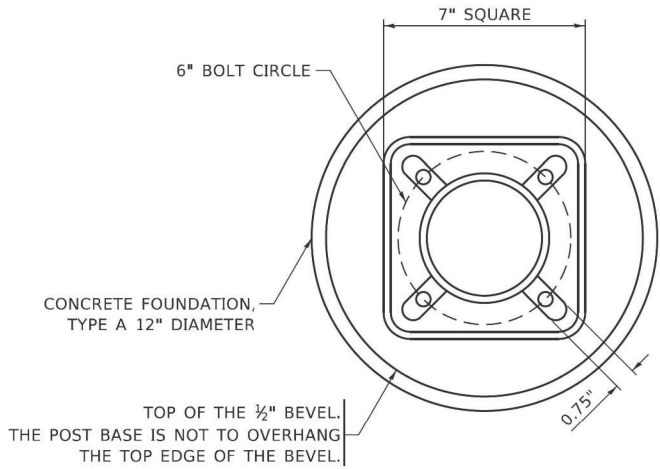
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 6 OF 7 SHEETS STA. TO STA.

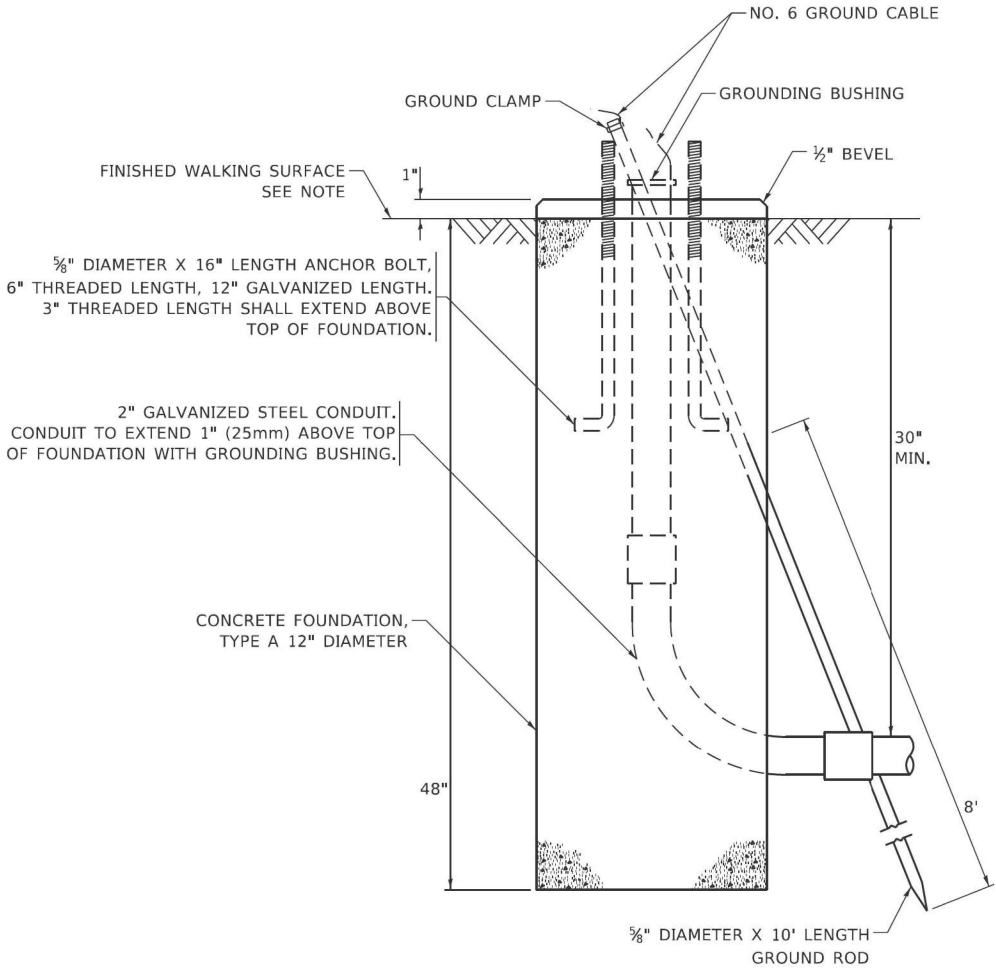
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	596
TS-05		CONTRACT NO. 62R22		
ILLINOIS		FED. AID PROJECT		

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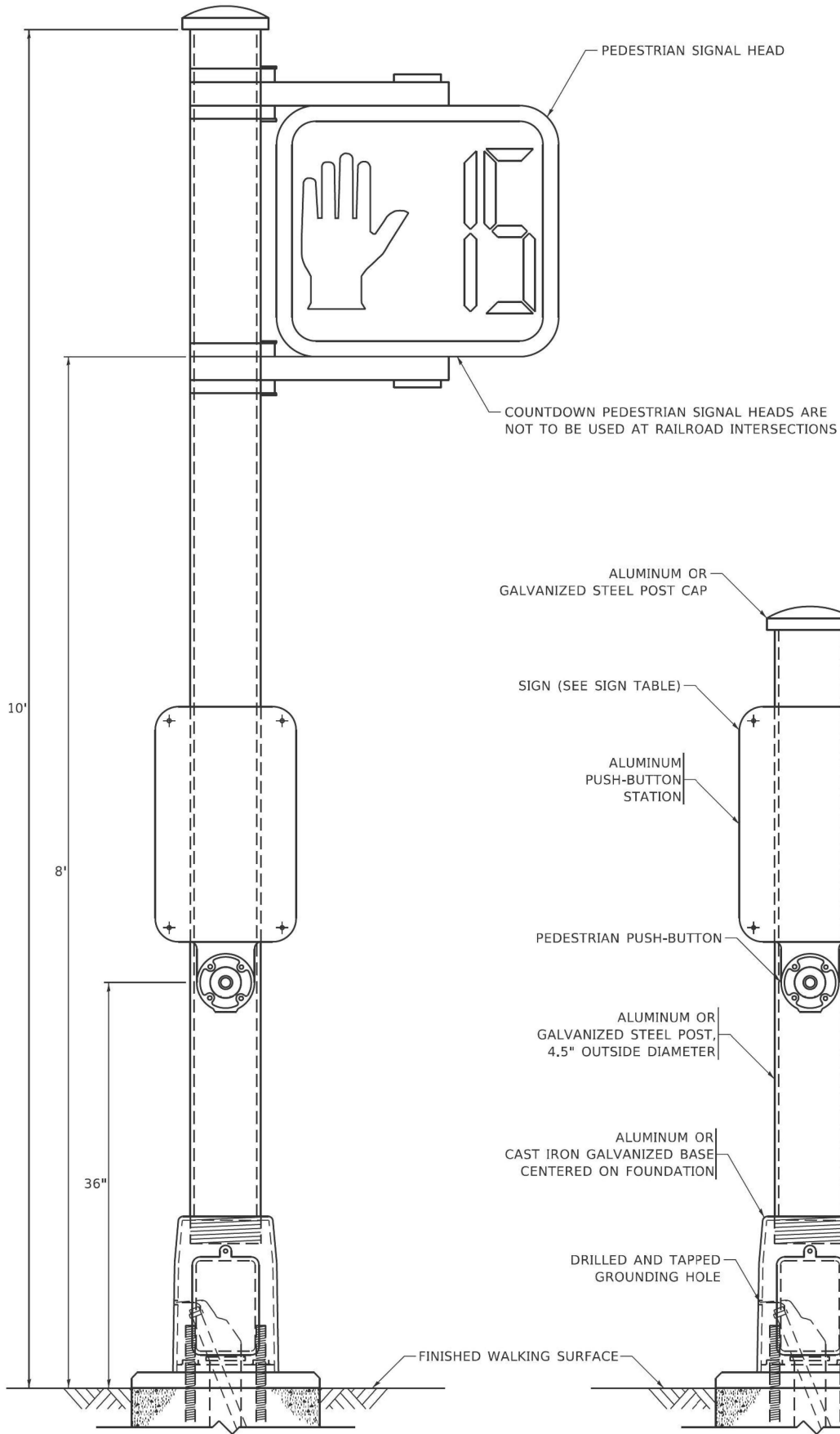


BOLT PATTERN

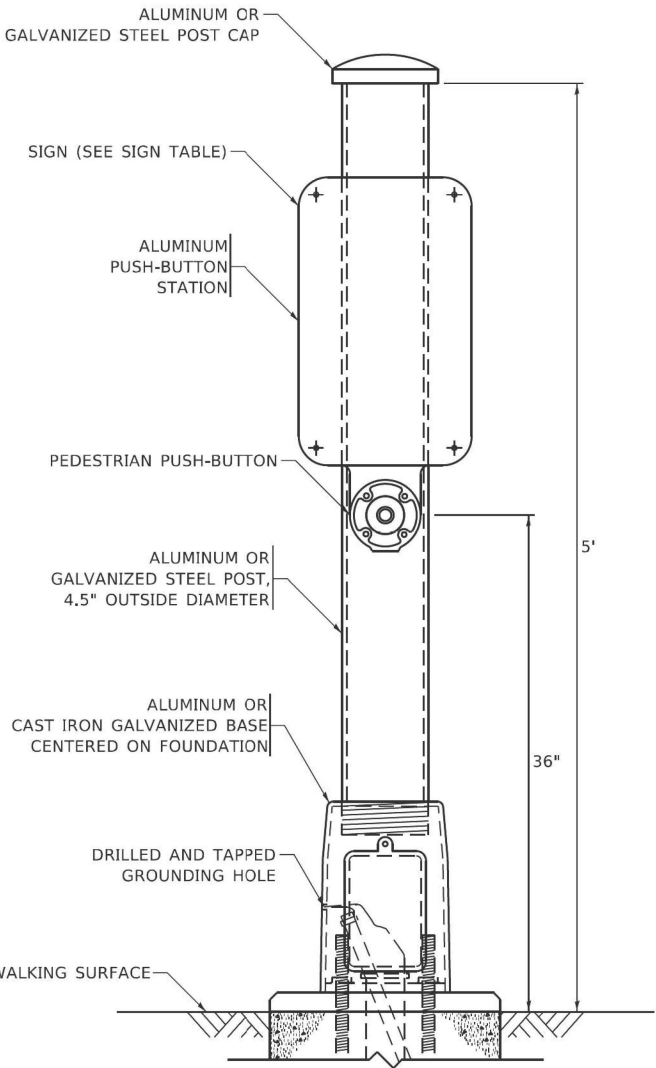
NOTE:
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



CONCRETE FOUNDATION,
TYPE A 12-INCH DIAMETER



PEDESTRIAN SIGNAL POST, 10 FT.



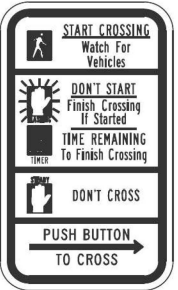
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:
1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

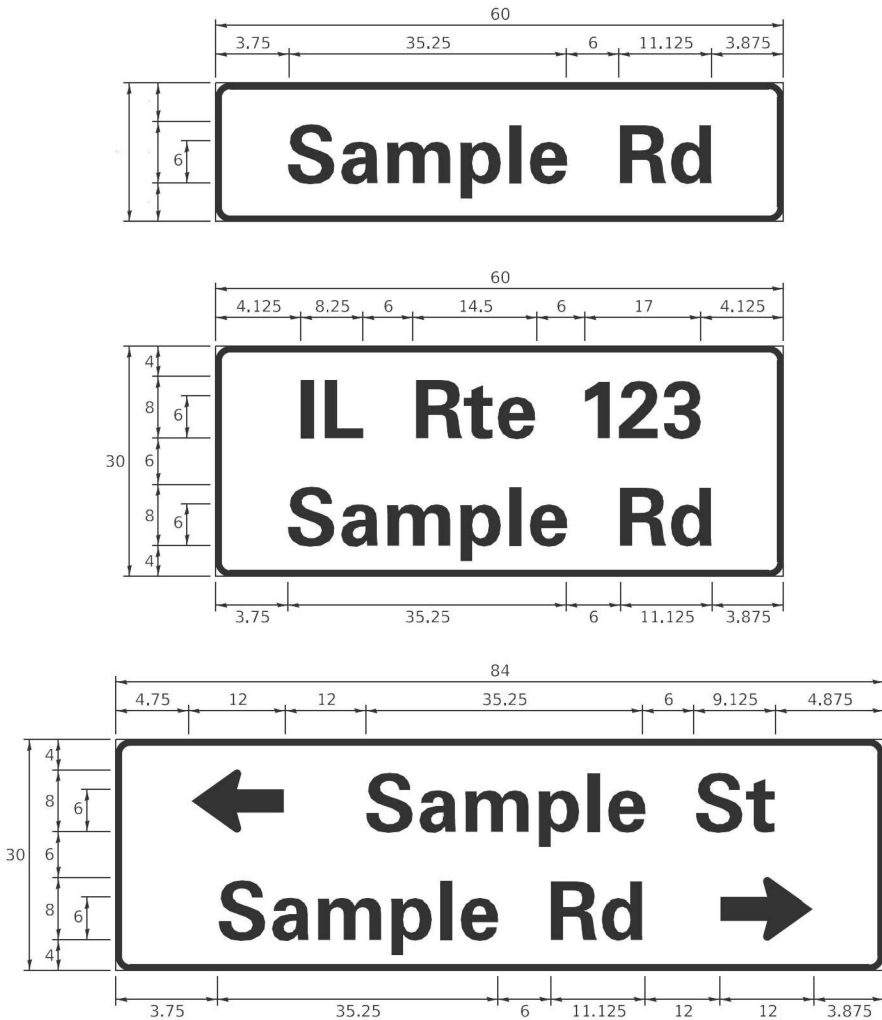
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	597
TS-05		CONTRACT NO.62R22		
ILLINOIS		FED. AID PROJECT		

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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	ABBREVIATION	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

- 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.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS 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.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM 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 THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- 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.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

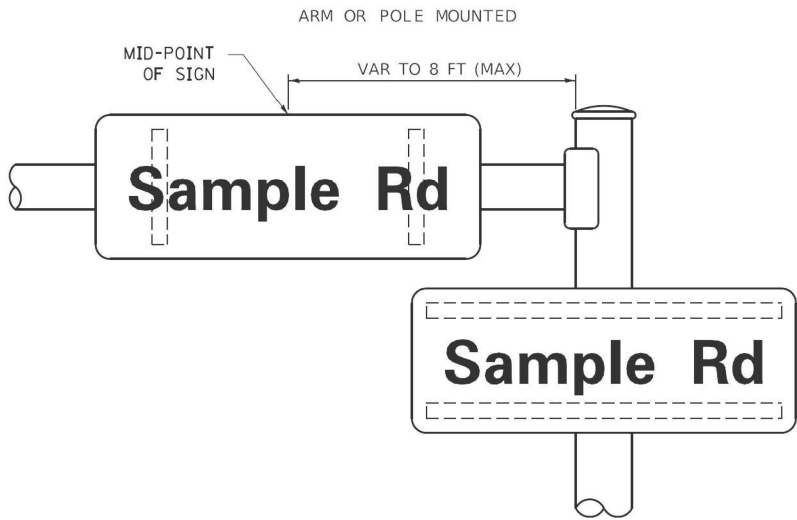
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

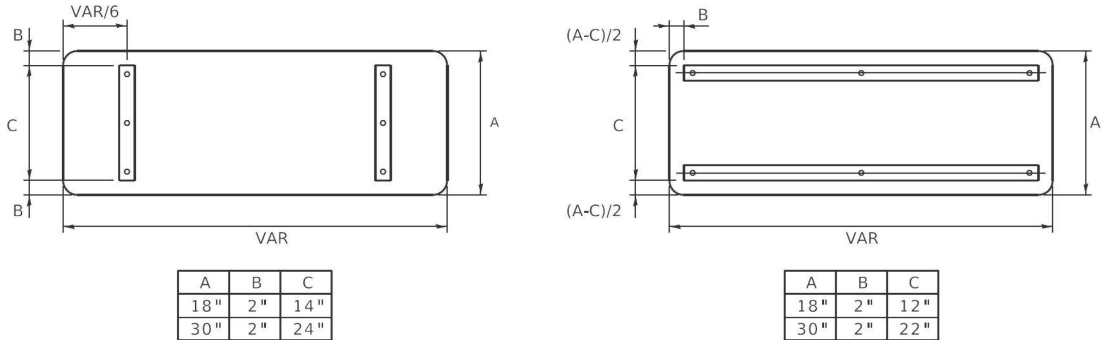
- SIGN CHANNEL
SIGN SCREWS
PART #HPN053 (MED. CHANNEL)
1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- BRACKETS
PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

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

MOUNTING LOCATION



SUPPORTING CHANNELS



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 = footemj	DESIGNED - LP/IP	REVISED - LP 07/01/2015	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - LP	REVISED -		MAST ARM MOUNTED STREET NAME SIGNS				80	FAI 80 21 INTERCHANGE	WILL	1209	598
	PLOT SCALE = 50,000.0' / 1"	CHECKED - JP	REVISED -						TS-02				
	PLOT DATE = 3/4/2019	DATE - 10/01/2014	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO.62R22				
									ILLINOIS FED. AID PROJECT				



USER NAME	= ggedemer	DESIGNED	GJG	REVISED	-
DRAWN	GJG	REVIS	-		
PLOT SCALE	= 40,000' / in.	CHECKED	MG	REVISED	-
PLOT DATE	= 4/24/2025	DATE	4/25/2025	REVISED	-

DESIGNED	GJG	REVISED	-
DRAWN	GJG	REVIS	-
CHECKED	MG	REVISED	-
DATE	4/25/2025	REVISED	-

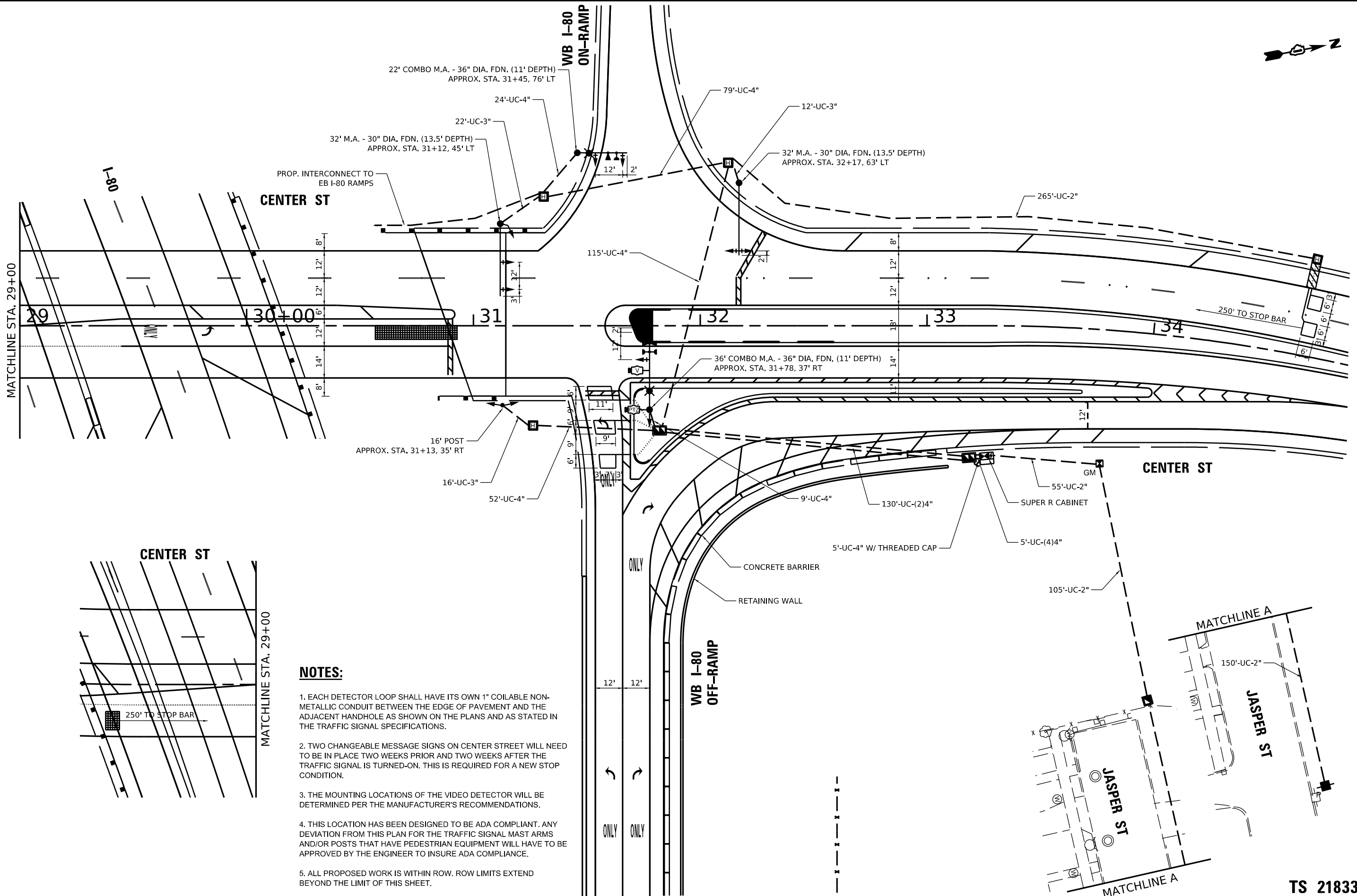
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
CENTER STREET AT WB I-80 RAMPS

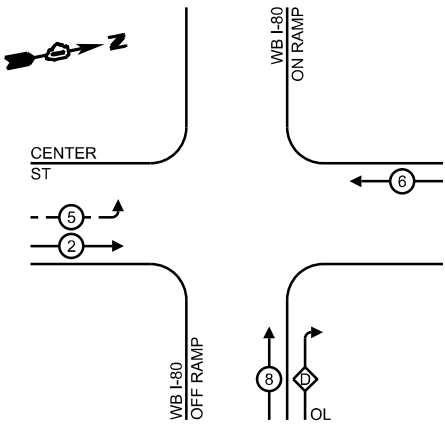
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	599
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				

TS 21833



PROPOSED CONTROLLER SEQUENCE



LEGEND:

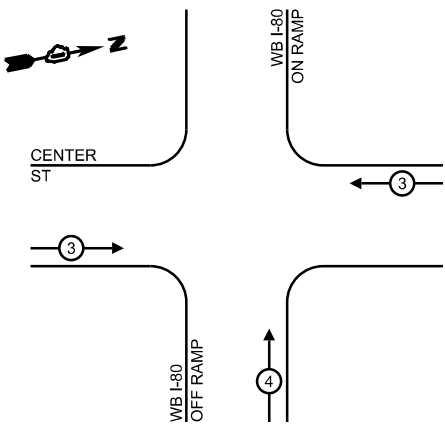
- ← * → PROTECTED PHASE
- ← * - PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

RIGHT TURN OVERLAP

PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
D	= CONTINUOUS RIGHT TURN OVERLAP	

PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE



NOTE: OVERLAP D SHALL BE TERMINATED DURING VEHICLE PREEMPTOR 3

TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	9	11	99
4-SECTION	1	14	14
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	-	20	-
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	1	35	35
CELLULAR MODEM	1	15	15
TOTAL UPS SIZING			364
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING			969

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: COMED NEW BUSINESS
PHONE: (866)-639-3532
COMPANY: COMED
ACCOUNT NUMBER: 14311-22272
METER NUMBER: ---

SINGH
SINGH + ASSOCIATES INC.
CONSULTING ENGINEERS

USER NAME = ggedemer
DESIGNED GJG
DRAWN GJG
CHECKED MG
PLOT SCALE = 40,000' / in.
PLOT DATE = 4/24/2025

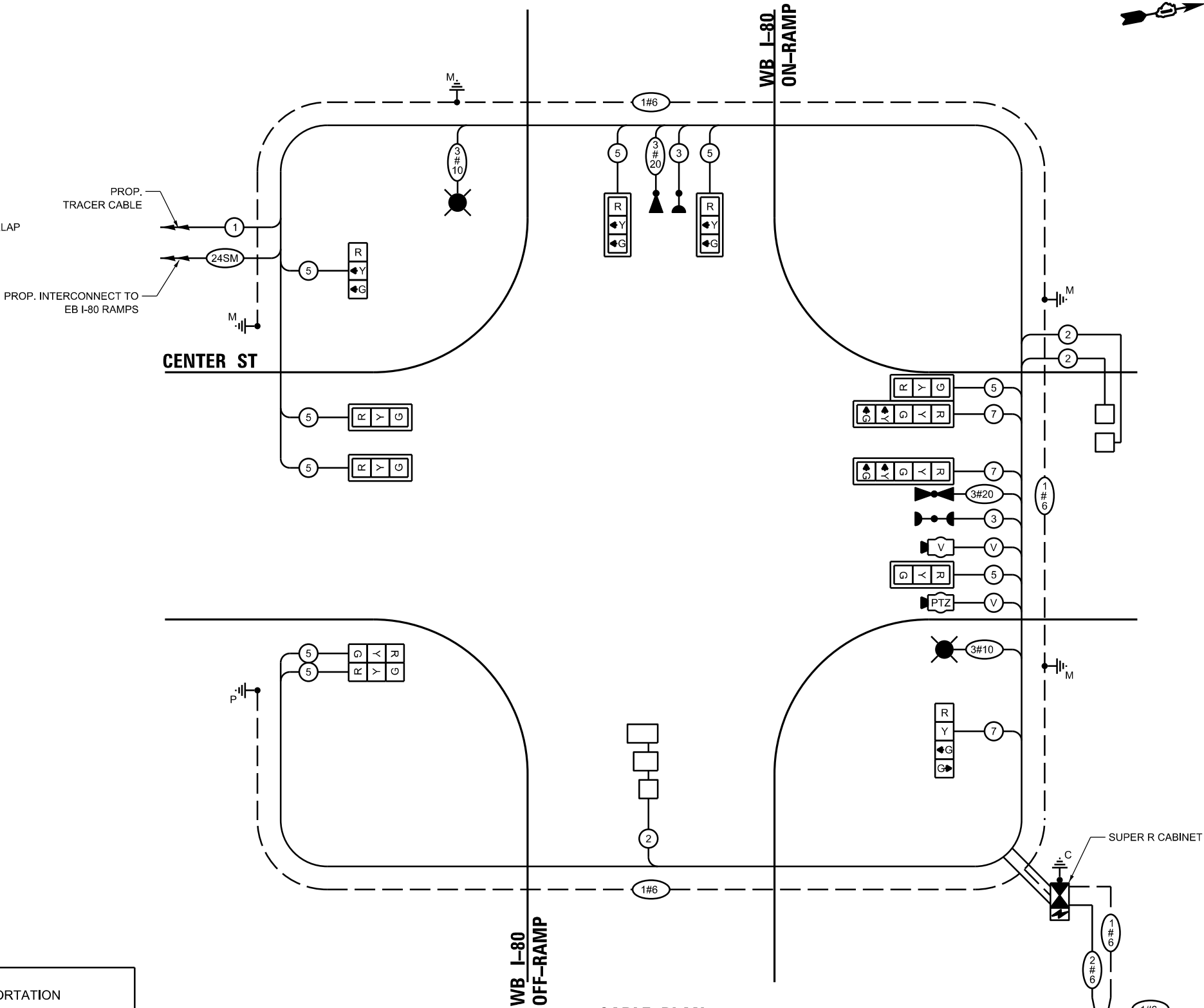
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
CENTER STREET AT WB I-80 RAMPS

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	FAI 80 21 INTERCHANGE	WILL	1209	600
CONTRACT NO. 62R22				
ILLINOIS FED. AID PROJECT				



NOTES:

ALL RED INDICATIONS SHALL HAVE A LENS COVER

TS 21833