

SCHEDULE OF QUANTITIES

SHEET	LOCATION			SIGN NUMBER	SIGN TYPE	PROPOSED SIGN		REMOVE SIGN PANEL ASSEMBLY			RELOCATE SIGN PANEL ASSEMBLY		SIGN INSTALLATION		TELESCOPE STEEL SIGN SUPPORT	
						WIDTH	HEIGHT	TYPE A	TYPE B	REMOVE SIGN (SPECIAL)	TYPE A	TYPE B	TYPE 1	TYPE 2		
	(INCH)	(INCH)	(EACH)			(EACH)	(EACH)	(EACH)	(EACH)	(SQ FT)	(SQ FT)	(FOOT)				
			72400100			72400200	X0327009	72400500	72400600	72000100	72000200	72800100				
561	83+75.53	47.6	LT	-	-				1							
	83+75.53	47.6	LT	80-TS-11	W3-3 (SIGNAL AHEAD)	36	36						9.0		15.7	
				80-TS-12	W16-8P (ADV STREET NAME)	36	8					2.0				
	87+29.36	39.0	RT	-	-				1							
	87+29.36	39.0	RT	80-TS-13	W11-10 (TRUCK)	36	36							9.0		16.5
				80-TS-14	W7-3A (NEXT 0.5 MILE)	24	18						3.0			
	87+98.89	39.4	RT	80-TS-15	CUSTOM	30	36							7.5		18.0
80-TS-16				CUSTOM	30	36						7.5				
87+98.64	38.1	LT	80-TS-17	CUSTOM	30	36							7.5		15.0	
562	89+97.83	40.8	LT	-	-			1								
	89+97.83	40.8	LT	80-TS-18	R2-1 (45 MPH)	24	30						5.0		14.5	
	300+39.94	24.3	RT	-	-			1								
	90+78.43	36.7	LT	80-TS-19	CUSTOM	30	36						7.5		15.0	
	90+77.50	50.3	RT	80-TS-20	CUSTOM	30	36						7.5		15.0	
	91+05.20	5.5	LT	80-TS-21	R4-7 (KEEP RIGHT)	24	36						6.0		15.0	
	201+37.38	22.2	RT	-	-			1								
	201+37.38	22.2	RT	189-TS-22	R1-1 (STOP)	36	36						9.0			
	300+16.90	32.7	RT	-	-			1								
	300+44.00	55.7	LT	-	-			1								
	300+66.74	2.3	RT	-	-				1							
	300+66.74	5.9	LT	-	-	18	30			1						
	300+69.22	42.7	LT	PDR-TS-24	R1-1 (STOP)	36	36						9.0		18.0	
				PDR-TS-25	R3-5R (RIGHT ONLY)	30	36					7.5				
92+28.24	5.5	RT	80-TS-26	R4-7 (KEEP RIGHT)	24	36						6.0		15.0		
92+28.24	5.5	RT	80-TS-26A	R3-5L (LEFT ONLY)	30	36						7.5		15.0		
563	97+11.92	33.0	RT	-	-			1								
	97+11.92	33.0	RT	80-TS-27	R2-1 (45 MPH)	24	30						5.0		14.5	
	100+03.20	29.0	LT	-	-			1								
100+01.00	5.7	RT	-	-			1									
564	102+40.66	5.9	RT	-	-			1								
	102+39.56	29.4	LT	-	-			1								
	103+64.86	33.6	RT	-	-				1							
105+29.69	33.0	LT	-	-			1									
105+29.69	33.0	LT	80-TS-28	R2-1 (45 MPH)	24	30						5.0		14.5		
565	5102+73.69	22.6	RT	-	-			1								
	5102+70.61	29.1	RT	186-TS-29	R6-1 (ONE WAY RT)	36	12						3.0		16.0	
				186-TS-30	R1-1 (STOP)	36	36					9.0				
	110+12.34	1.3	RT	186-TS-31	R6-1 (ONE WAY RT)	36	12						3.0		13.0	
	110+42.48	46.3	RT	80-TS-32	R3-8B (4-LANE INTERSECTION)	66	30							13.8	14.5	
	111+43.07	41.9	RT	-	-			1								
111+43.07	41.9	RT	80-TS-33	R2-1 (45 MPH)	24	30						5.0		14.5		
566	112+99.44	25.8	RT	-	-				1							
	112+99.44	50.6	RT	80-TS-34	W16-15P (NEW)	24	12						2.0		16.7	
				80-TS-35	W3-3 (SIGNAL AHEAD)	36	36					9.0				
				80-TS-36	W16-8P (ADV STREET NAME)	36	8					2.0				
	113+92.49	41.6	LT	-	-				1							
113+92.49	41.6	LT	80-TS-37	W2-2R (INTERSECTION WARNING)	30	30							6.3		15.2	
			80-TS-38	W16-8P (ADV STREET NAME)	36	8						2.0				
						SUBTOTAL		13.0	7.0	0.0	0.0	0.0	161.8	13.8	291.5	

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	DRAWN - JPA	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - DJO	REVISED -
PLOT DATE = 3/4/2021	DATE - 3/3/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

80TH AVENUE PAVEMENT MARKING AND SIGNING SCHEDULE			
SCALE: 1" = 20'	SHEET 1 OF 3 SHEETS	STA.	TO STA.

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 601
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G73	

SCHEDULE OF QUANTITIES (CONT.)

SHEET	LOCATION			SIGN NUMBER	SIGN TYPE	PROPOSED SIGN		REMOVE SIGN PANEL ASSEMBLY			RELOCATE SIGN PANEL ASSEMBLY		SIGN INSTALLATION		TELESCOPE STEEL SIGN SUPPORT
						WIDTH	HEIGHT	TYPE A	TYPE B	REMOVE SIGN (SPECIAL)	TYPE A	TYPE B	TYPE 1	TYPE 2	
						(INCH)	(INCH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(SQ FT)	(SQ FT)	
	STA	O/S	LT/RT					72400100	72400200	X0327009	72400500	72400600	72000100	72000200	72800100
566 (CONT.)	114+73.53	5.5	LT	80-TS-39	R3-5L (LEFT ONLY)	30	36						7.5		15.0
	114+74.53	5.5	LT	80-TS-40	R4-7 (KEEP RIGHT)	24	30						5.0		14.5
	2009+46.70	20.1	RT	-	-			1							
	2010+56.73	26.9	LT	-	-			1							
	116+25.72	5.5	RT	80-TS-41	R4-7 (KEEP RIGHT)	24	30						5.0		14.5
	116+26.72	5.5	RT	80-TS-42	R3-5L (LEFT ONLY)	30	36						7.5		15.0
567	119+05.24	45.4	LT	-	-				1						
	119+05.24	45.4	LT	80-TS-43	W11-10 (TRUCK)	36	36						9.0		16.5
				80-TS-44	W7-3A (NEXT 0.5 MILE)	24	18				3.0				
	119+62.00	24.0	RT	-	-			1							
	120+16.69	3.4	LT	80-TS-45	R6-1 (ONE WAY RT)	36	12						3.0		13.0
	120+31.00	32.3	RT	-	-			1							
	121+17.27	42.4	LT	80-TS-46	R3-8B (4-LANE INTERSECTION)	66	30							13.8	29.0
	121+55.96	42.8	RT	-	-			1							
	121+53.96	42.8	RT	80-TS-47	W3-3 (SIGNAL AHEAD)	36	36						9.0		15.7
				80-TS-48	W16-8P (ADV STREET NAME)	36	8				2.0				
	122+04.44	34.4	LT	-	-			1							
	122+52.12	5.8	RT	80-TS-49	R6-1 (ONE WAY RT)	36	12						3.0		13.0
	122+71.30	35.0	LT	-	-				1						
	122+71.30	46.7	LT	80-TS-50	W16-15P (NEW)	24	12						2.0		16.7
				80-TS-51	W3-3 (SIGNAL AHEAD)	36	36				9.0				
80-TS-52				W16-8P (ADV STREET NAME)	36	8				2.0					
123+42.48	45.0	RT	80-TS-53	R3-8B (5-LANE INTERSECTION)	90	36							22.5	30.0	
123+45.92	8.6	LT	80-TS-54	R6-1 (ONE WAY RT)	36	12						3.0		13.0	
125+21.39	9.6	LT	80-TS-55	R6-1 (ONE WAY RT)	36	12						3.0		13.0	
126+78.72	41.3	LT	-	-			1								
127+61.62	64.1	LT	-	CUSTOM	24	36				1				15.0	
127+67.77	11.5	LT	80-TS-56	R3-8 (DUAL LEFT)	30	30						6.3		14.5	
127+68.77	11.5	LT	80-TS-57	R4-7 (KEEP RIGHT)	24	30						5.0		14.5	
4102+83.40	11.5	RT	183-TS-58	R4-7 (KEEP RIGHT)	24	30						5.0		14.5	
4102+84.40	11.5	RT	183-TS-59	R3-8 (DUAL LEFT)	30	30						6.3		14.5	
129+73.21	11.5	RT	80-TS-60	R4-7 (KEEP RIGHT)	24	30						5.0		14.5	
129+74.21	11.5	RT	80-TS-61	R3-8 (DUAL LEFT)	30	30						6.3		14.5	
129+94.89	46.7	LT	-	CUSTOM	36	18								15.5	
			-	CUSTOM	36	24				1					
129+94.60	38.0	RT	-	-			1								
131+25.73	46.6	RT	80-TS-62	W11-10 (TRUCK)	36	36						9.0		15.0	
132+83.00	9.6	RT	80-TS-63	R6-1 (ONE WAY RT)	36	12						3.0		13.0	
133+15.50	46.6	RT	-	-			1								
133+15.50	46.6	RT	80-TS-64	R2-1 (45 MPH)	24	30						5.0		14.5	
134+55.10	45.0	LT	80-TS-65	R3-8B (4-LANE INTERSECTION)	66	30							13.8	29.0	
135+59.90	39.4	LT	-	-			1								
135+17.64	44.9	LT	80-TS-66	W3-3 (SIGNAL AHEAD)	36	36						9.0		15.7	
135+59.90	44.9	LT	80-TS-67	W16-8P (ADV STREET NAME)	36	8						2.0			
135+60.00	60.4	RT	-	CUSTOM (METRA)					1						
137+71.93	42.0	RT	-	-				1							
137+71.93	42.0	RT	80-TS-68	W11-2 (PEDESTRIAN)	30	30						6.3		15.5	
			80-TS-69	W16-9P (AHEAD)	24	12				2.0					
138+72.81	38.9	LT	-	-			1								
138+72.81	38.9	LT	80-TS-70	R2-1 (45 MPH)	24	30						5.0		14.5	
SUBTOTAL								11.0	3.0	1.0	1.0	1.0	148.0	50.0	453.5

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	DRAWN - JPA	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - DJO	REVISED -
PLOT DATE = 3/26/2021	DATE - 3/3/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
PAVEMENT MARKING AND SIGNING SCHEDULE

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 602
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	

SCHEDULE OF QUANTITIES (CONT.)

SHEET	LOCATION			SIGN NUMBER	SIGN TYPE	PROPOSED SIGN		REMOVE SIGN PANEL ASSEMBLY			RELOCATE SIGN PANEL ASSEMBLY		SIGN INSTALLATION		TELESCOPE STEEL SIGN SUPPORT	
						WIDTH	HEIGHT	TYPE A	TYPE B	REMOVE SIGN (SPECIAL)	TYPE A	TYPE B	TYPE 1	TYPE 2		
						(INCH)	(INCH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(SQ FT)	(SQ FT)		(FOOT)
	STA	O/S	LT/RT					72400100	72400200	X0327009	72400500	72400600	72000100	72000200	72800100	
570 (CONT.)	138+81.66	39.6	RT	-	CUSTOM	60	36					1			30.0	
	139+77.83	38.4	RT	-	I-8 (LIBRARY)	24	24				1				15.3	
	140+73.43	38.2	RT	-	M6-1 (ARROW)	21	15									
	140+73.43	38.2	RT	80-TS-71	W10-1 (RAIL GRADE CROSSING) DIAMETER	36	36		1					7.1	18.0	
	141+66.43	39.5	RT	80-TS-72	W10-9 (NO TRAIN HORN)	36	36							9.0		
571	142+35.02	50.8	RT	-	-			1								
	142+43.42	37.9	RT	-	-				1							
	142+43.42	37.9	RT	80-TS-73	W11-2 (PEDESTRIAN)	30	30							6.3	15.5	
579	5102+17.65	23.8	LT	-	-			1						2.0		
	5102+17.65	23.8	LT	186-TS-95	R2-1 (30 MPH)	24	30							5.0	14.5	
581	2007+10.44	21.5	RT	186-TS-96	W16-15P (NEW)	24	12							2.0	16.7	
				186-TS-97	W3-3 (SIGNAL AHEAD)	36	36							9.0		
				186-TS-98	W16-8P (ADV STREET NAME)	36	8							2.0		
582	2012+24.80	22.2	RT	-	-			1								
	2012+24.80	22.2	RT	185-TS-99	R2-1 (25 MPH)	24	30							5.0	14.5	
				185-TS-100	W16-15P (NEW)	24	12							2.0		
	2014+28.00	22.6	LT	185-TS-101	W3-3 (SIGNAL AHEAD)	36	36							9.0	16.7	
584	4092+53.13	39.3	LT	-	-			1								
	4092+53.13	39.3	LT	183-TS-103	R2-1 (35 MPH)	24	30							5.0	14.5	
585	4095+65.10	0.8	LT	183-TS-104	R4-7 (KEEP RIGHT)	24	30							5.0	14.5	
	4095+67.23	6.0	RT	183-TS-105	R4-7 (KEEP RIGHT)	24	30							5.0	14.5	
	4095+68.23	6.0	RT	183-TS-106	R3-5L (LEFT ONLY)	30	36							7.5	15.0	
	4096+69.02	43.6	RT	183-TS-107	R3-8B (5-LANE INTERSECTION)	90	36								22.5	30.0
586	4100+98.03	45.5	LT	-	-			1						9.0	15.0	
	4100+98.03	45.5	LT	183-TS-108	R5-2A (NO TRUCK ROUTE)	36	36									
587	4106+74.65	46.7	LT	-	-				1							
	4106+74.65	46.7	LT	-	CUSTOM I-7 (METRA)	24	36				1				16.3	
				-	CUSTOM (METRA DESTINATION)	21	15									
	4106+85.05	44.2	RT	-	-			1								
	4106+85.05	44.2	RT	183-TS-109	R2-1 (40 MPH)	24	30							5.0	14.5	
	4107+23.65	9.6	LT	183-TS-110	R6-1 (ONE WAY RT)	36	12							3.0	13.0	
	4107+39.50	55.1	LT	-	-			1								
	4107+39.50	55.1	LT	-	CUSTOM (NO DUMPING)	24	21				1				15.5	
				-	CUSTOM (VIDEO SURVEILLANCE)	24	21									
	4107+56.22	43.4	RT	-	-			1								
	4108+22.64	50.2	LT	183-TS-111	R3-8B (5-LANE INTERSECTION)	90	36								22.5	30.0
	4109+44.93	42.7	LT	-	-			1								
4109+44.93	42.7	LT	183-TS-112	D3-2 (ADV STREET NAME)	60	30								12.5	29.0	
4111+12.25	38.5	LT	-	-												
4111+12.25	38.5	LT	183-TS-113	W11-10 (TRUCK)	36	36								9.0	30.0	
4111+57.42	56.6	LT	-	-			1									
4111+57.42	56.6	LT	183-TS-114	R1-1 (STOP)	24	30								5.0	14.5	
SUBTOTAL								10.0	3.0	0.0	4.0	1.0	122.0	57.5	423.6	
ROBINSON SUBTOTAL								12.0	3.0	1.0	4.0	0.0	189.0	0.0	394.0	
TOTAL								46.0	16.0	2.0	9.0	2.0	620.8	121.3	1562.6	

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	DRAWN - JPA	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - DJO	REVISED -
PLOT DATE = 3/26/2021	DATE - 3/3/2021	REVISED -

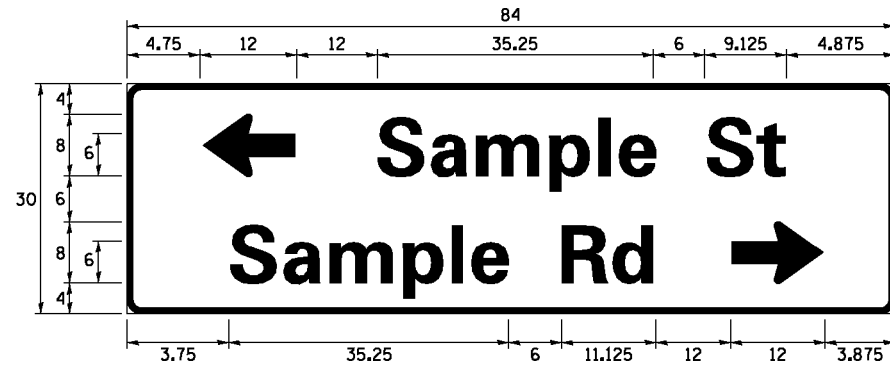
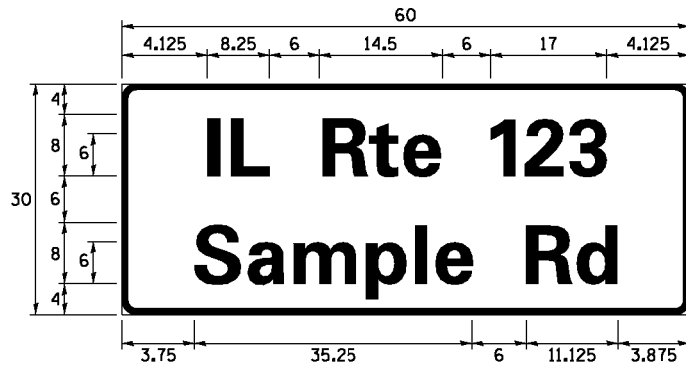
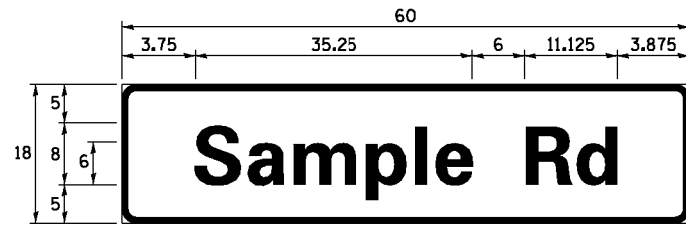
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
PAVEMENT MARKING AND SIGNING SCHEDULE

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	603
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2



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

ALL DIMENSIONS ARE IN INCHES EXCEPT NOTED OTHERWISE

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

NAME	ABBREVIATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blyd	17.125	20.000
CIRCLE	Clr	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 SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- 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 SYMBOLGY 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:

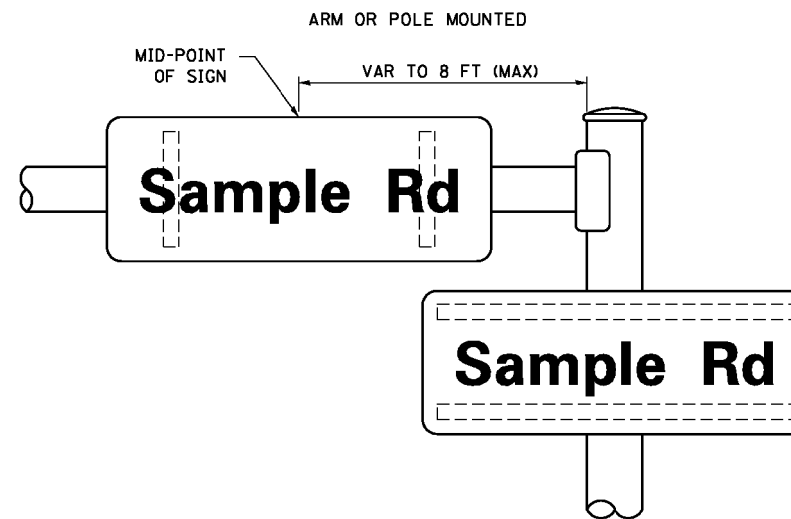
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

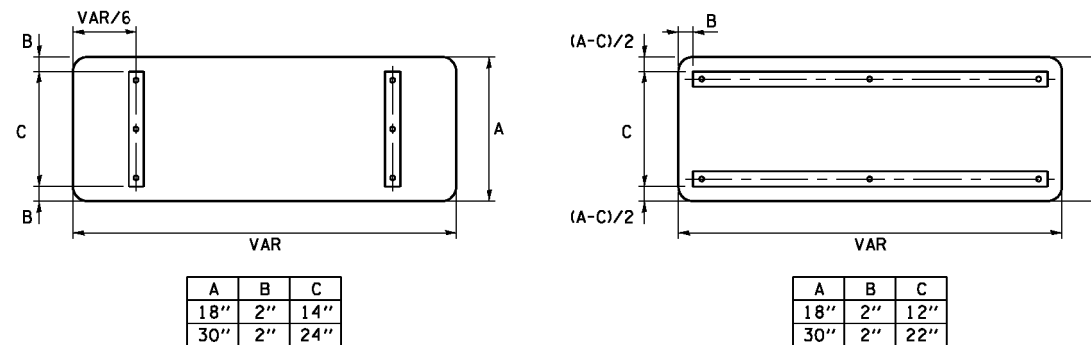
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
- BRACKETS SELF TAPPING WITH NEOPRENE WASHER
- CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING PART #HPN034 (UNIVERSAL)

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



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

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

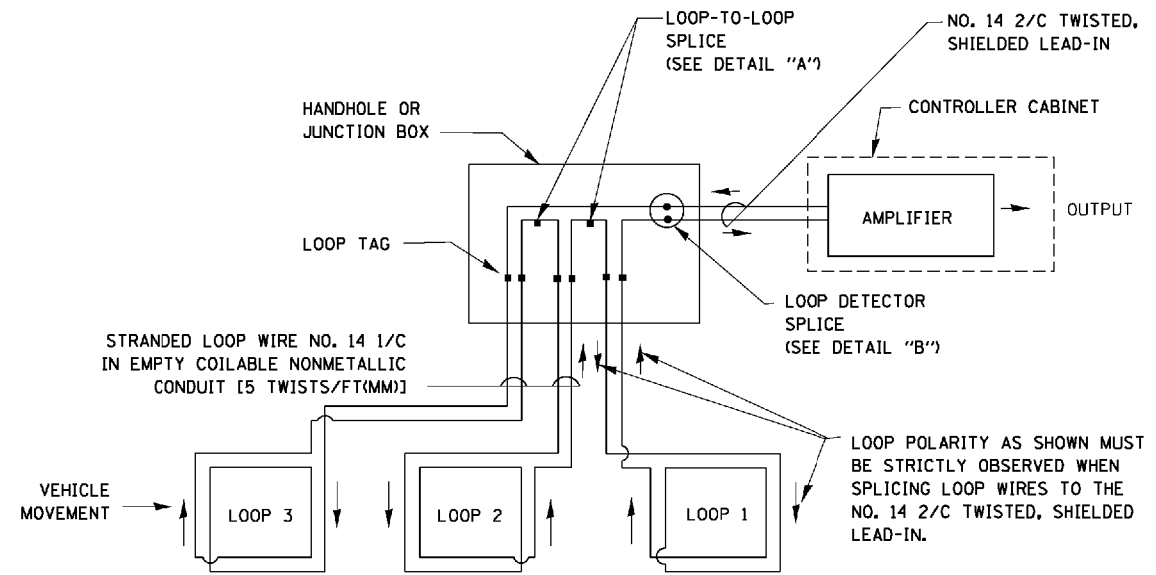
STANDARD ALPHABETS SPACING CHART

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

CHARACTER	FHWA SERIES "C"			FHWA SERIES "D"			
	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

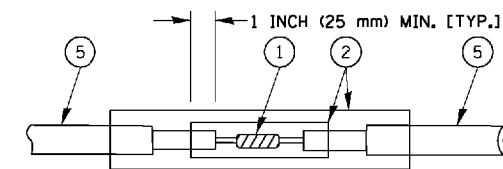
LOOP DETECTOR NOTES

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.

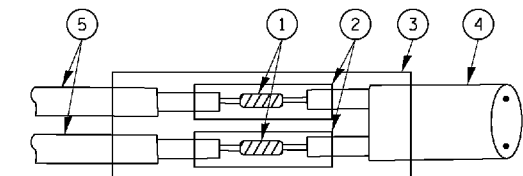


DETECTOR LOOP WIRING SCHEMATIC

- 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.

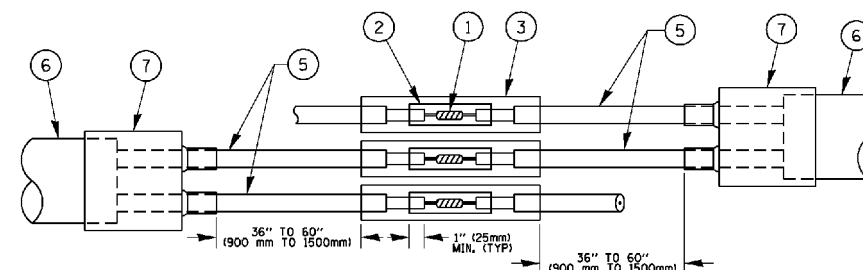


DETAIL "A"
LOOP-TO-LOOP SPLICE

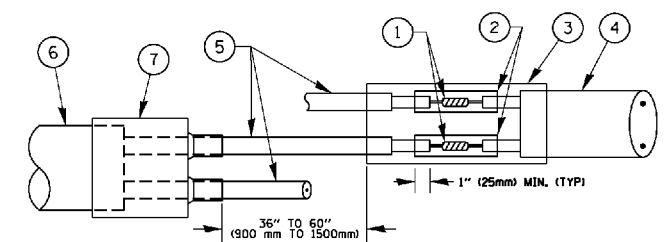


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

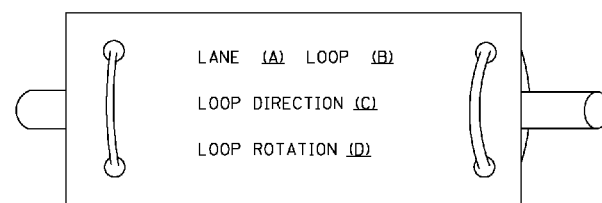


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

LOOP LEAD-IN CABLE TAG



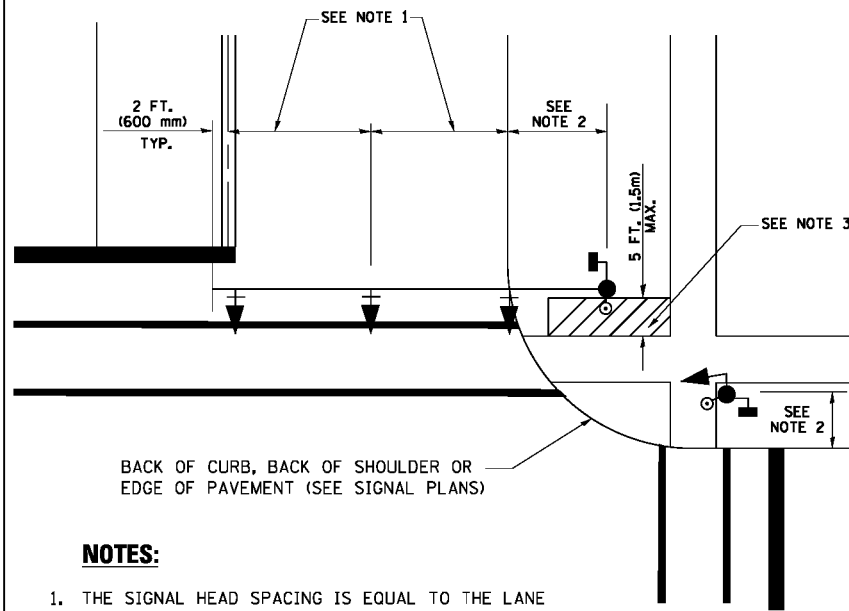
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

- 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 LENGTH 6" (150 mm), UNDERWATER GRADE.
- ④ NO. 14 2/C TWISTED, SHIELDED CABLE.

- ⑤ LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- ⑥ PRE-FORMED LOOP
- ⑦ XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. ~~TYPE CBR-2 OR APPROVED EQUAL~~

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
of:\pwwork\pwi\dott\Footemj\00108315\ts05.dgn	DRAWN - BCK	REVISED -	2755			06-00122-16-FP	WILL	1113	606	
PLOT SCALE = 50.0000' / in.	CHECKED - DAD	REVISED -	TS-05			CONTRACT NO.	61G73			
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -	SCALE: NONE			SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

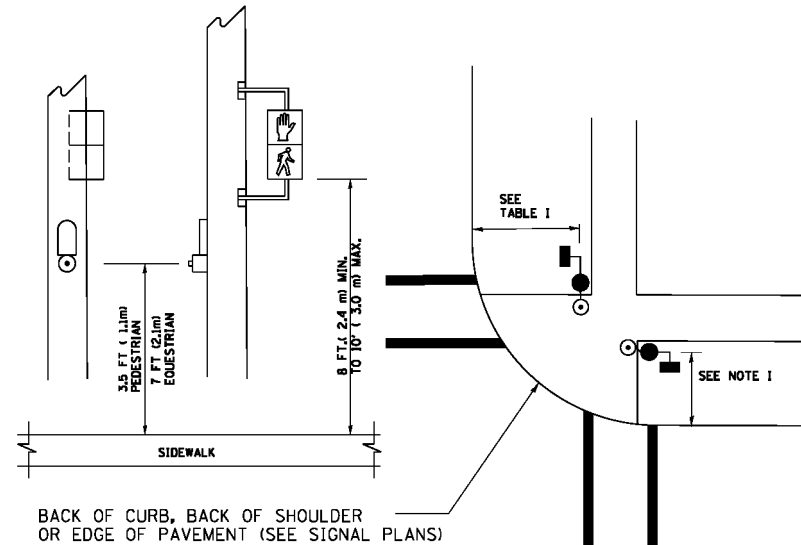
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

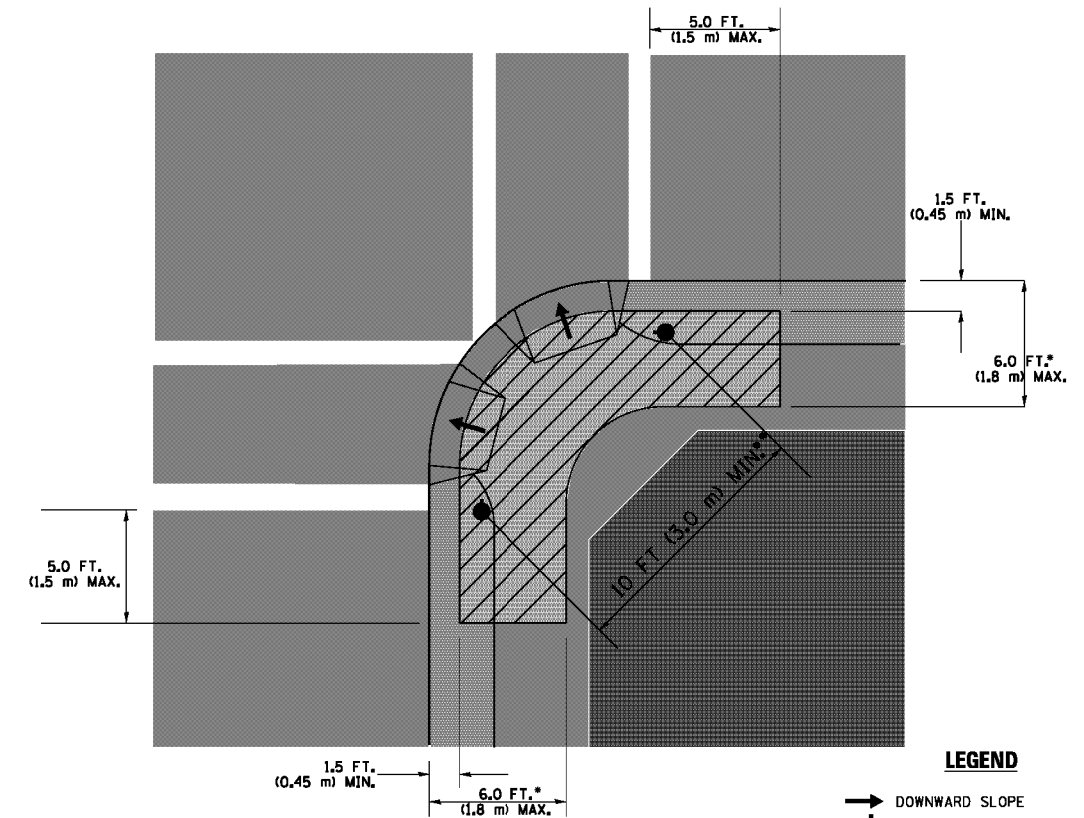
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ 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:

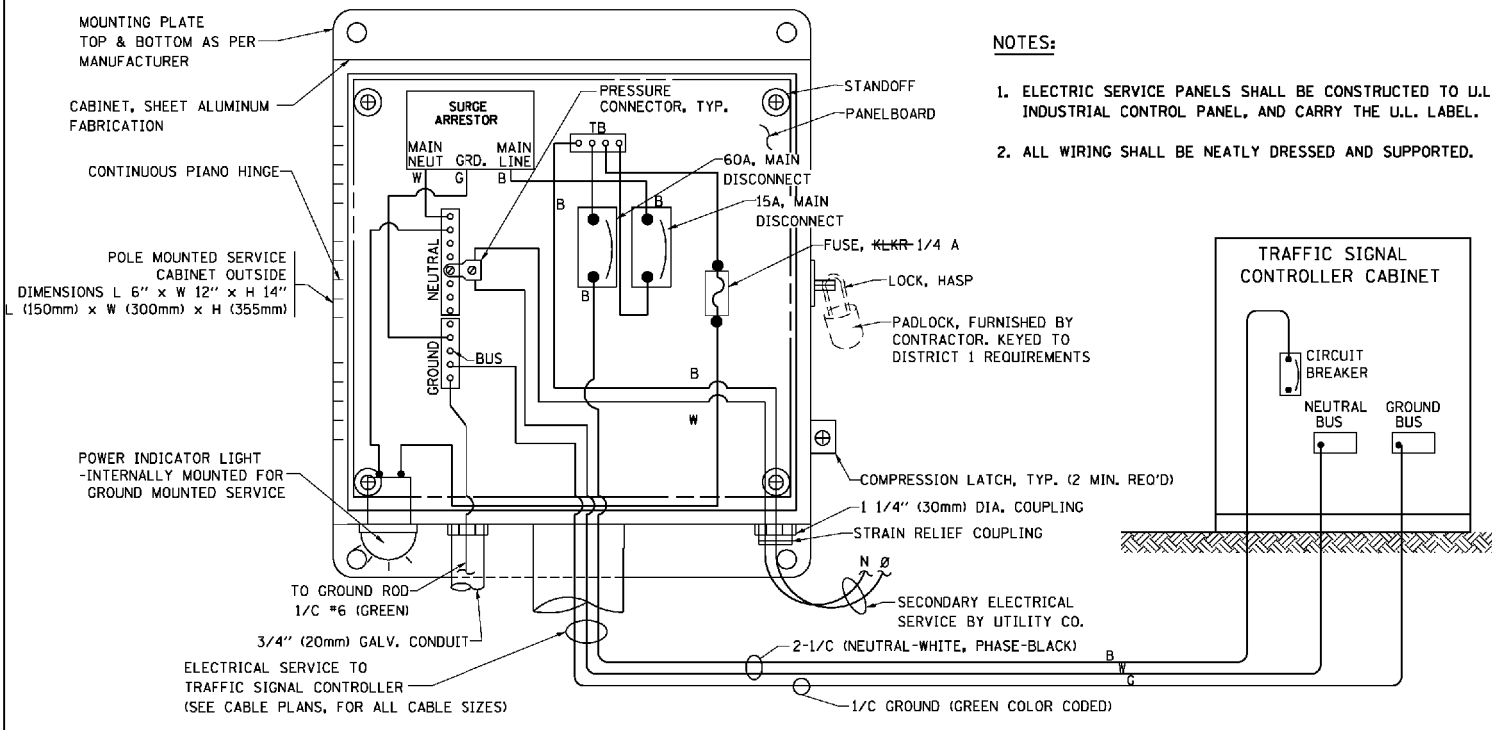
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM 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

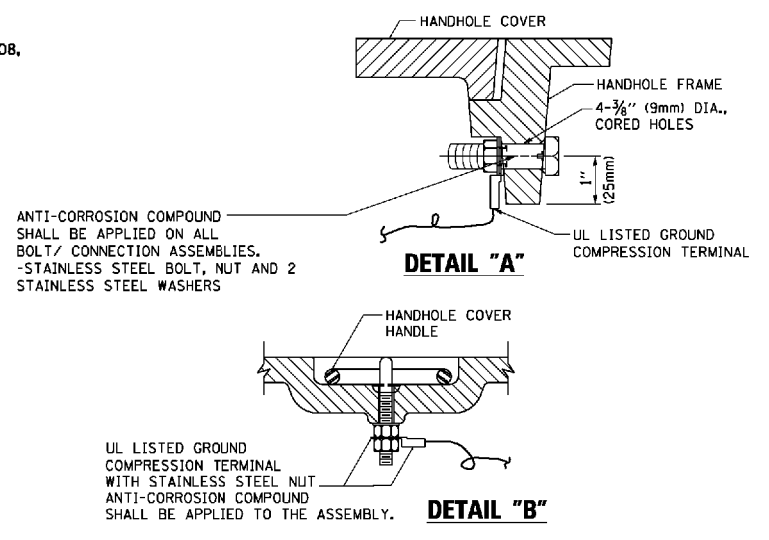
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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 TO THE 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.

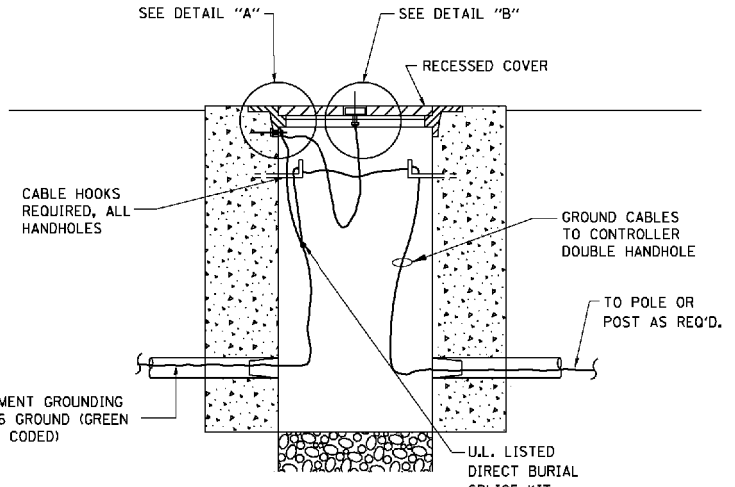


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)

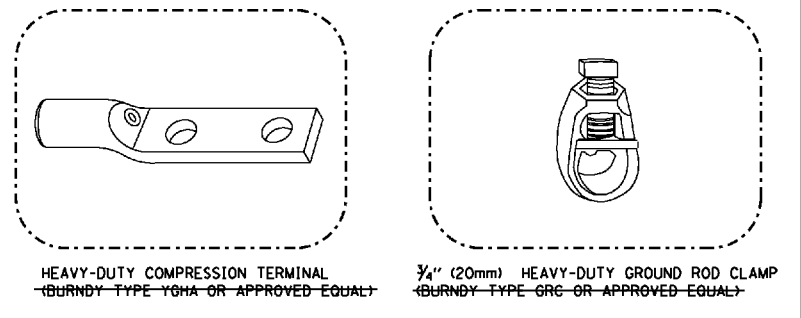


NOTES:
GROUNDING SYSTEM

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

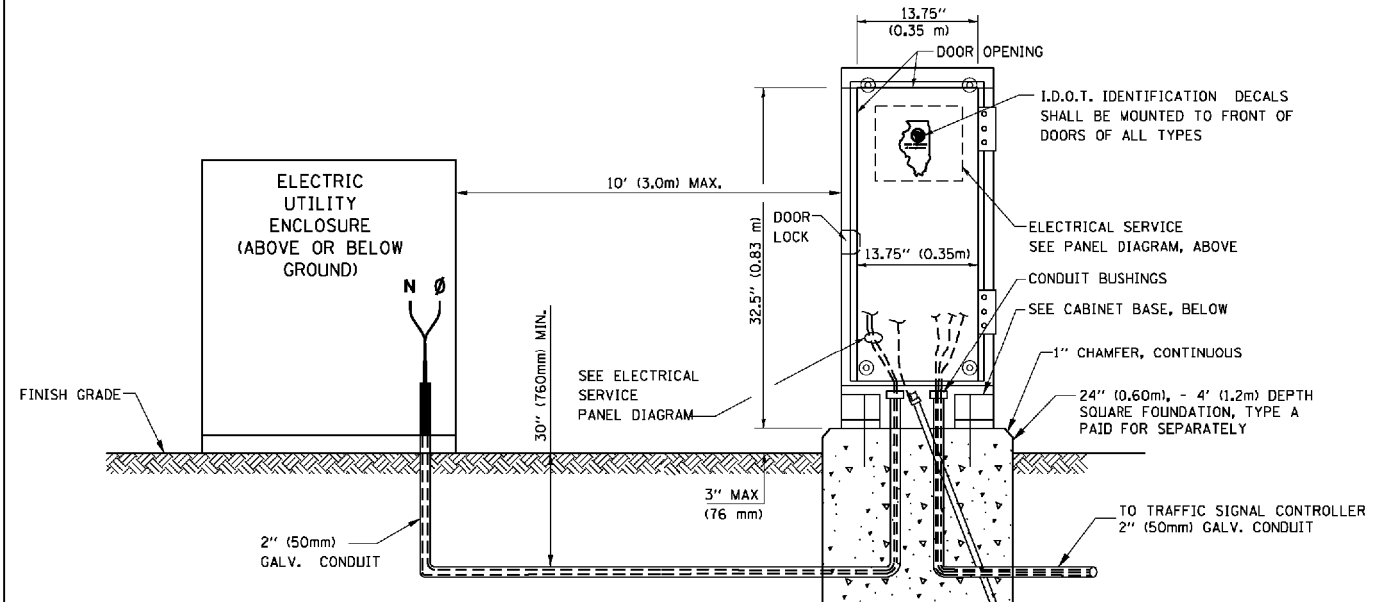


HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

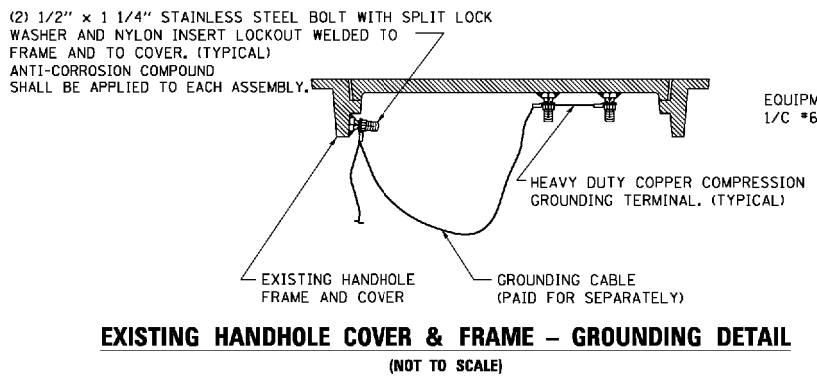


NOTES:

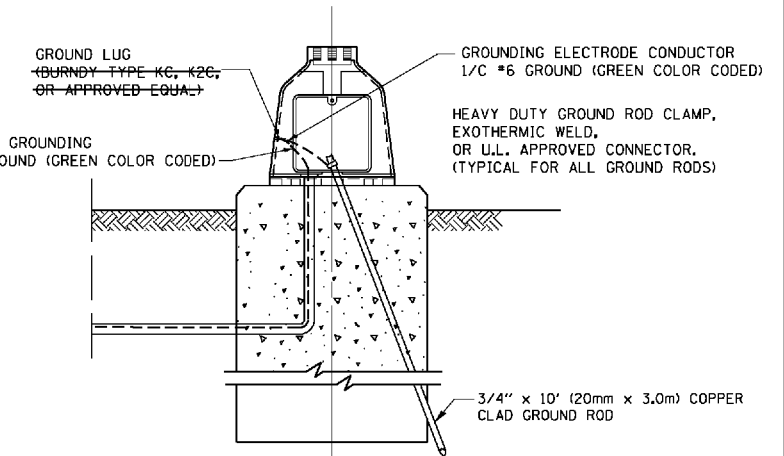
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



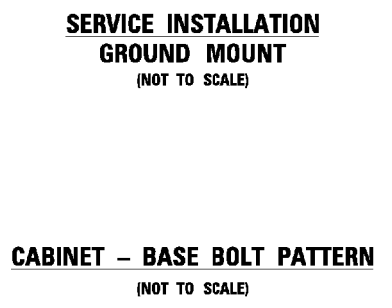
SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)



EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)



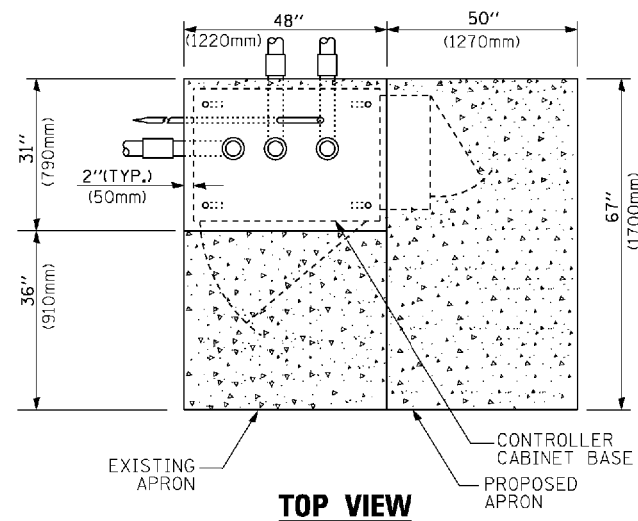
CABINET - BASE BOLT PATTERN (NOT TO SCALE)

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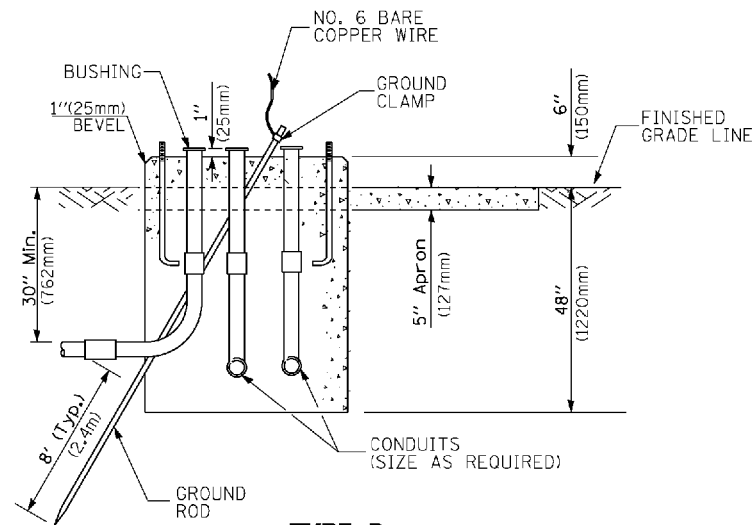
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.

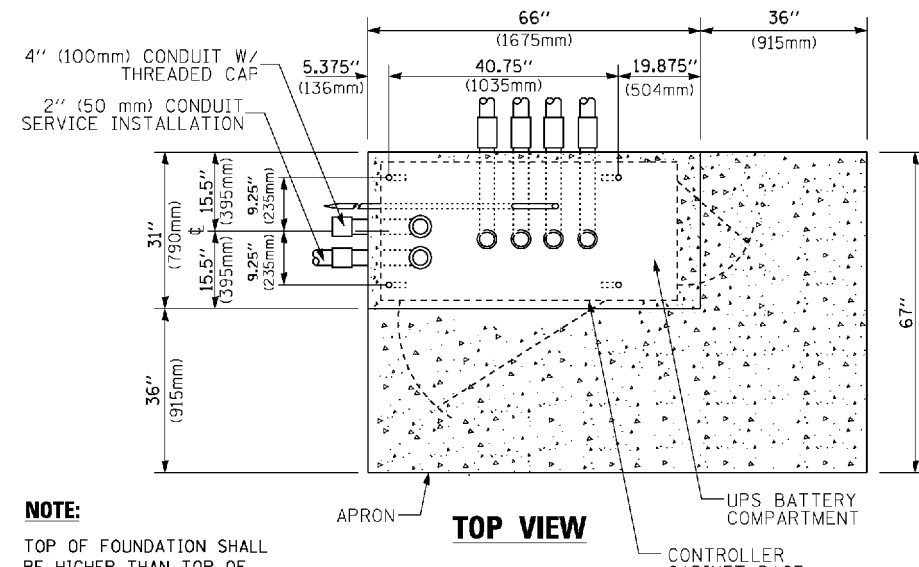
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	608
TS-05		CONTRACT NO. 61G73		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TOP VIEW

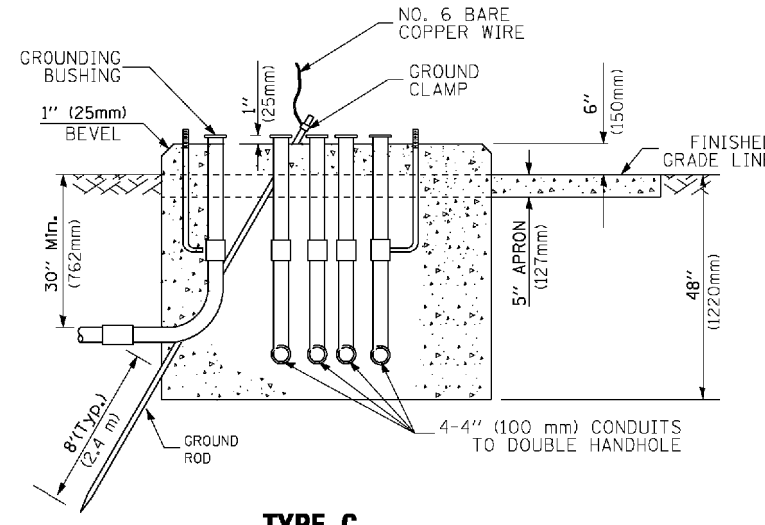


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

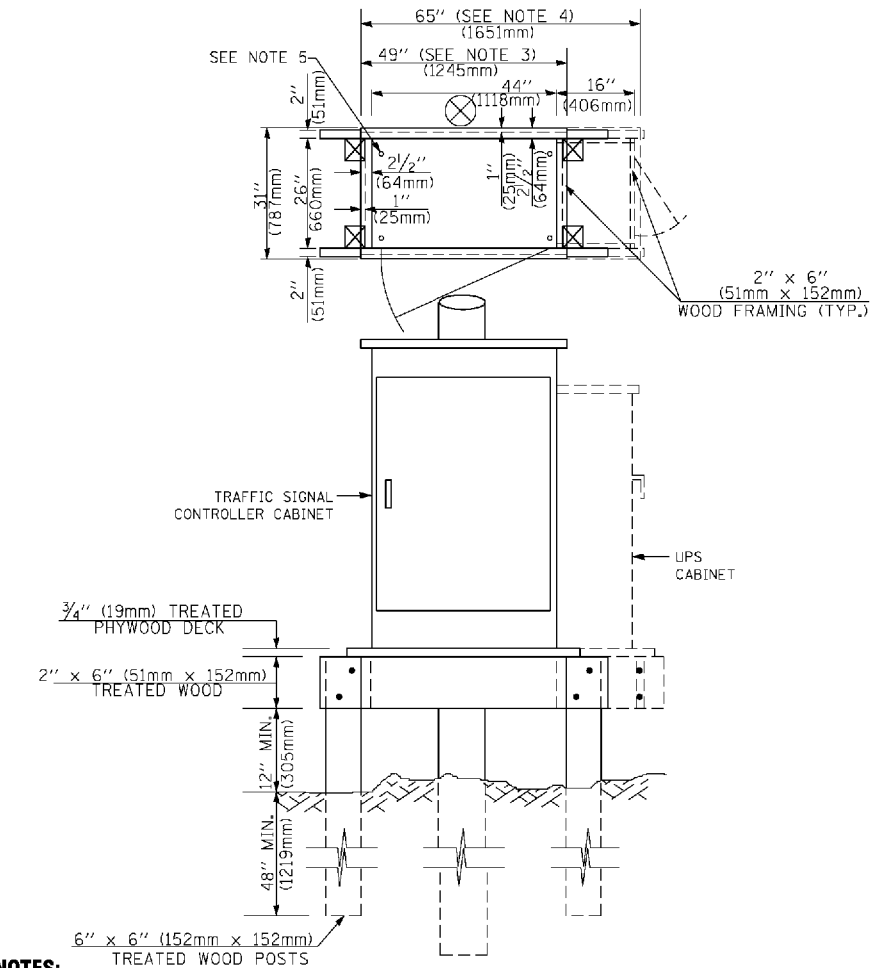


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



NOTES:

- 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.
- 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.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 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.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

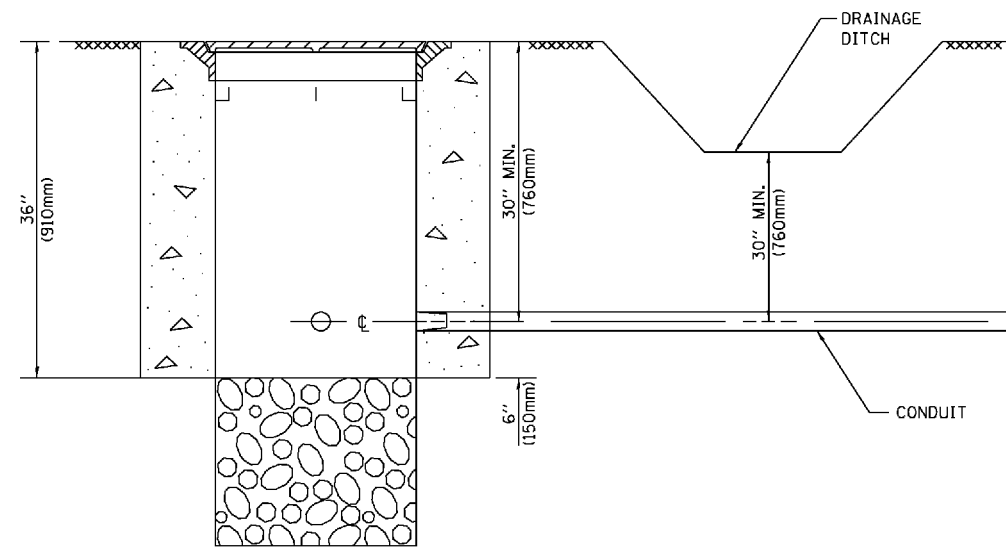
DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

- 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.
- Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- For mast arm assemblies with dual arms refer to state standard 878001..

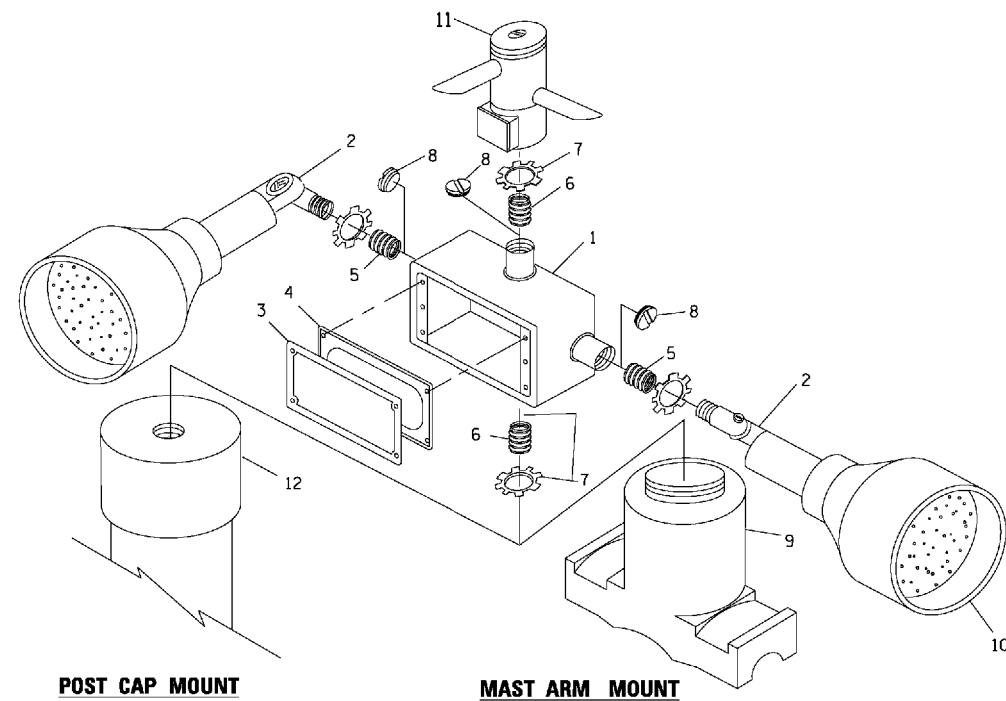
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



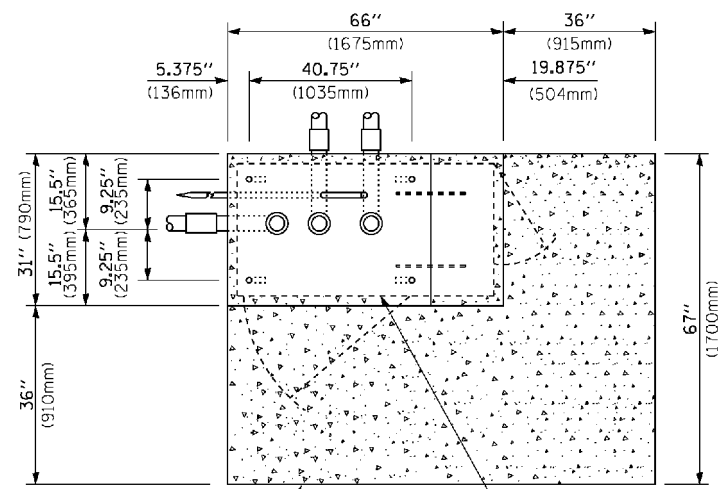
NOTES:

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.

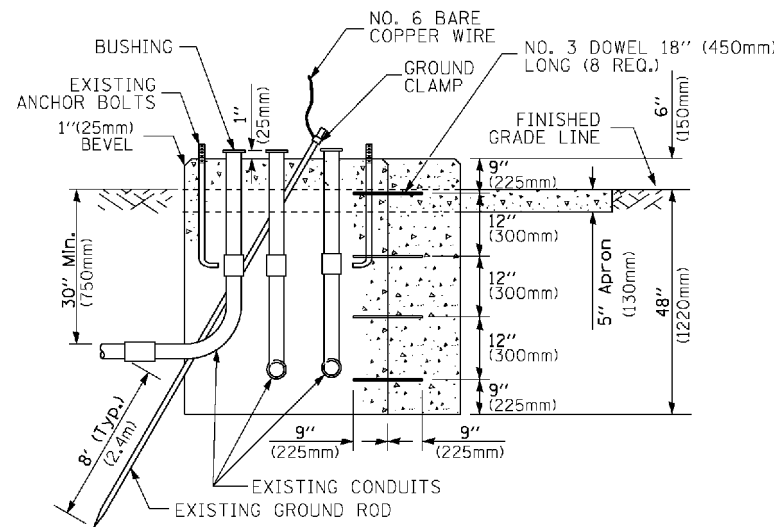
HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



TOP VIEW
(NOT TO SCALE)

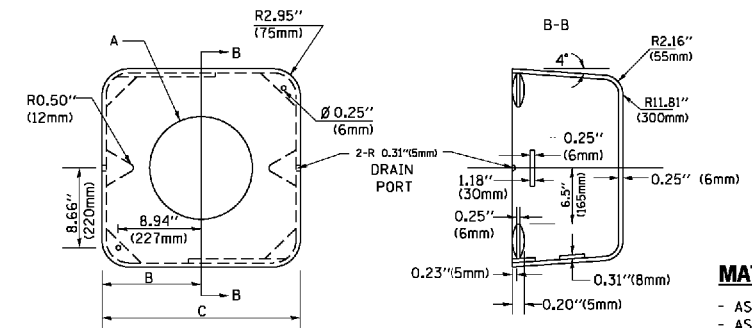


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

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

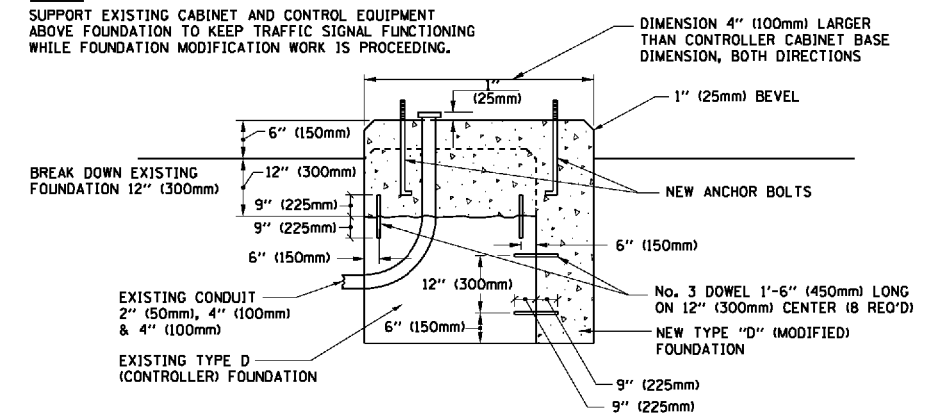
SHROUD

NOTES:

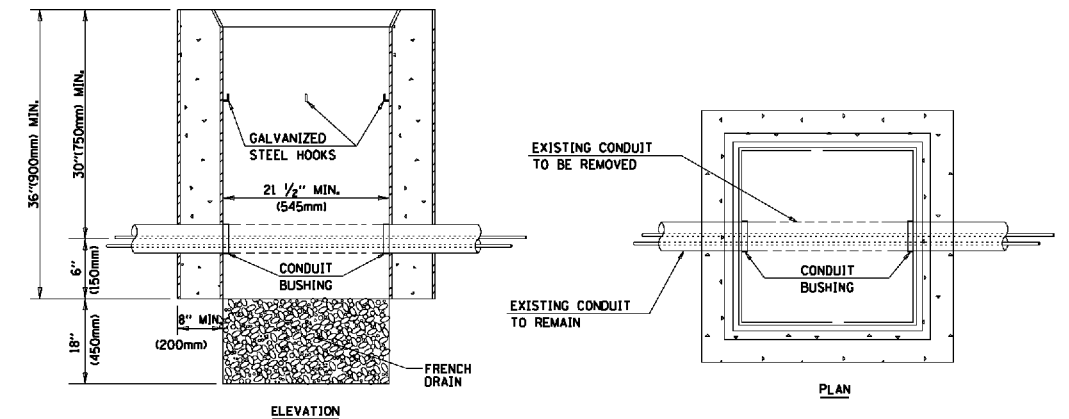
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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 B1400L
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

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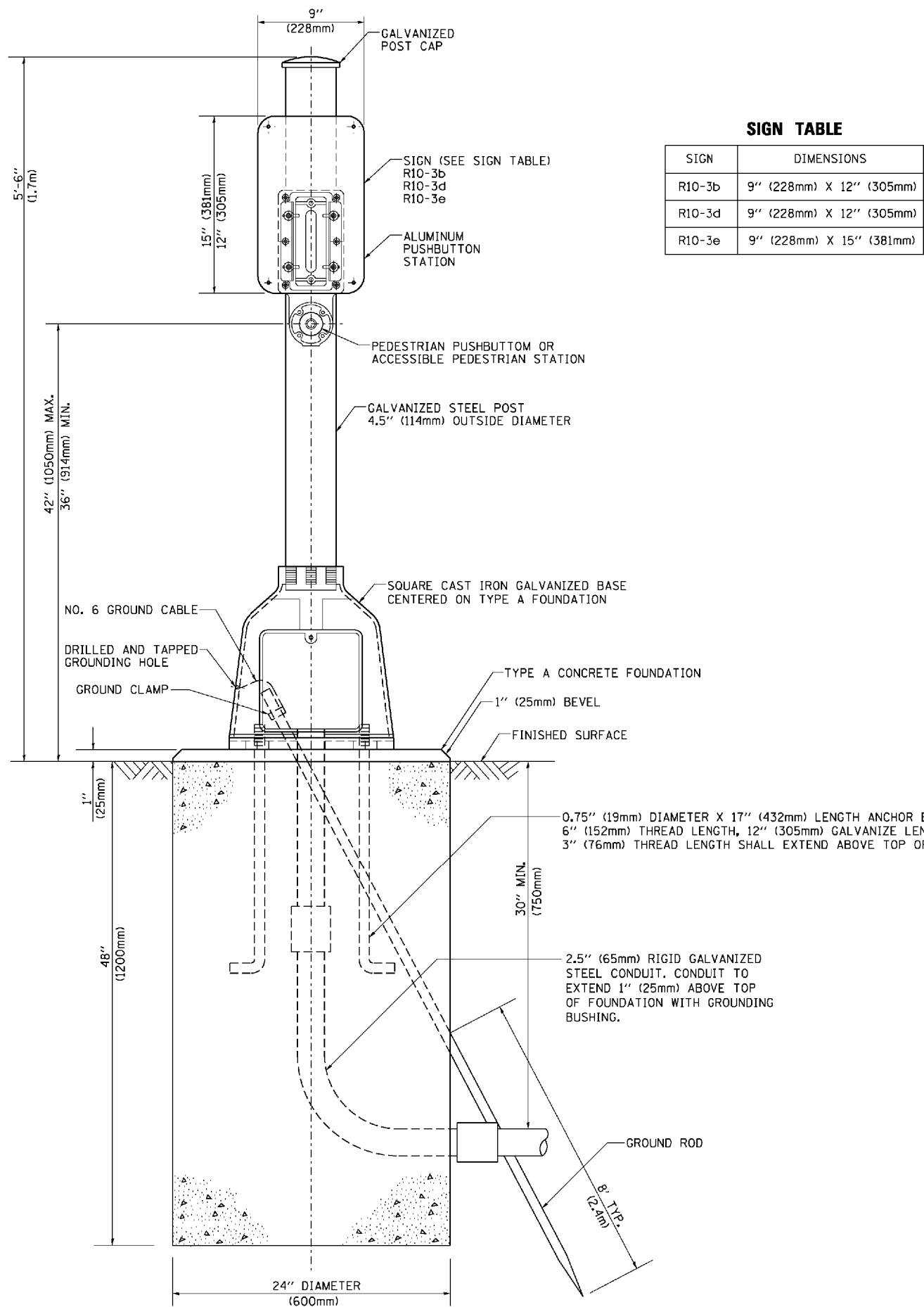
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

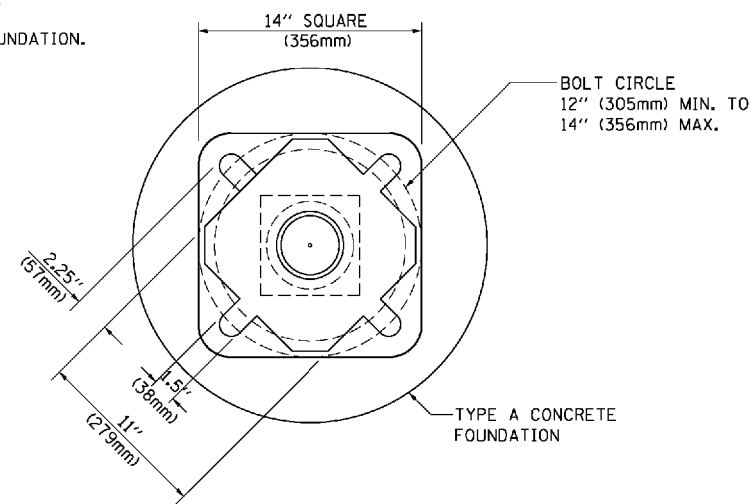
SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	610
	TS-05	CONTRACT NO.	61G73	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SIGN TABLE

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



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TS-05		CONTRACT NO. 61G73		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

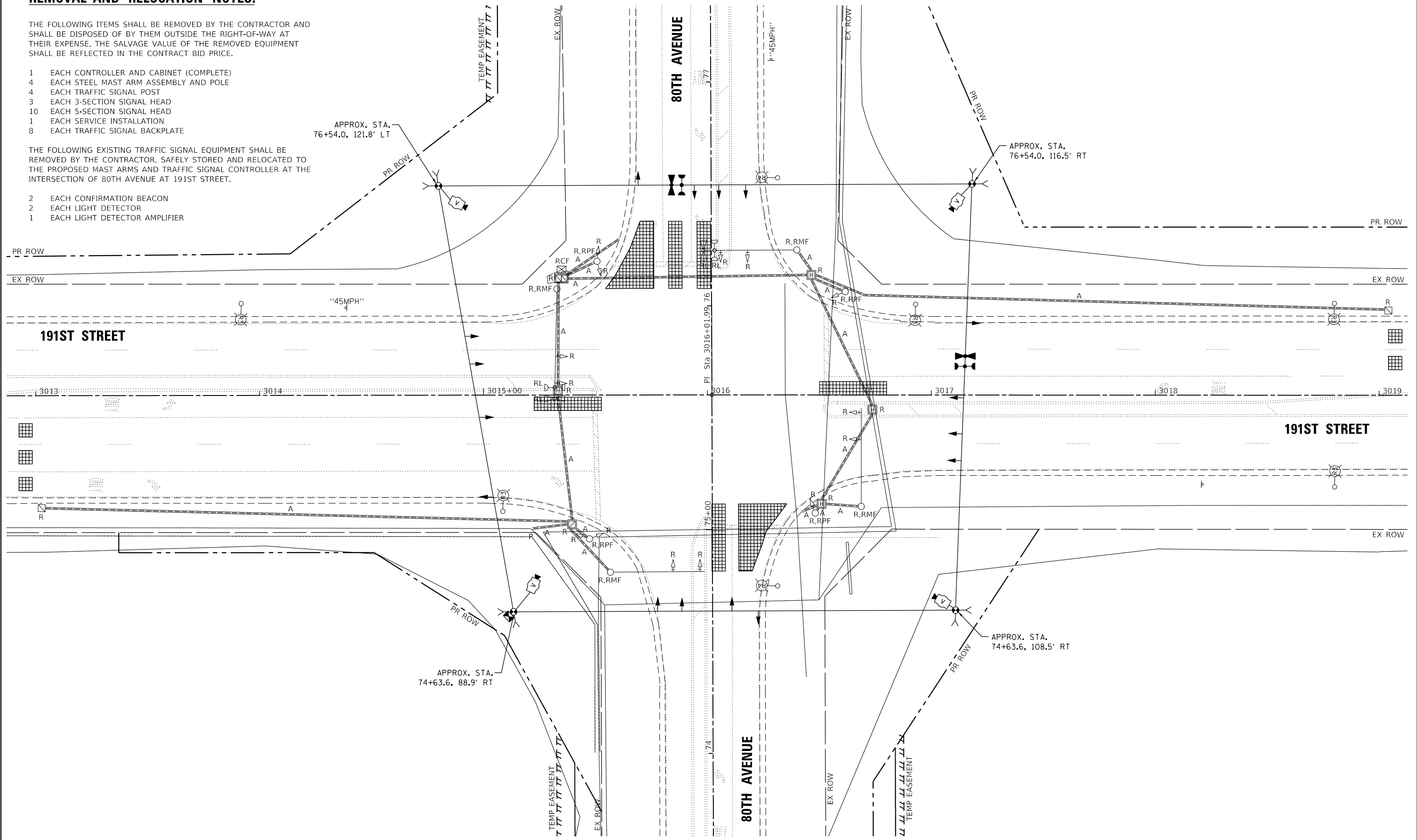
REMOVAL AND RELOCATION NOTES:

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

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

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER AT THE INTERSECTION OF 80TH AVENUE AT 191ST STREET.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



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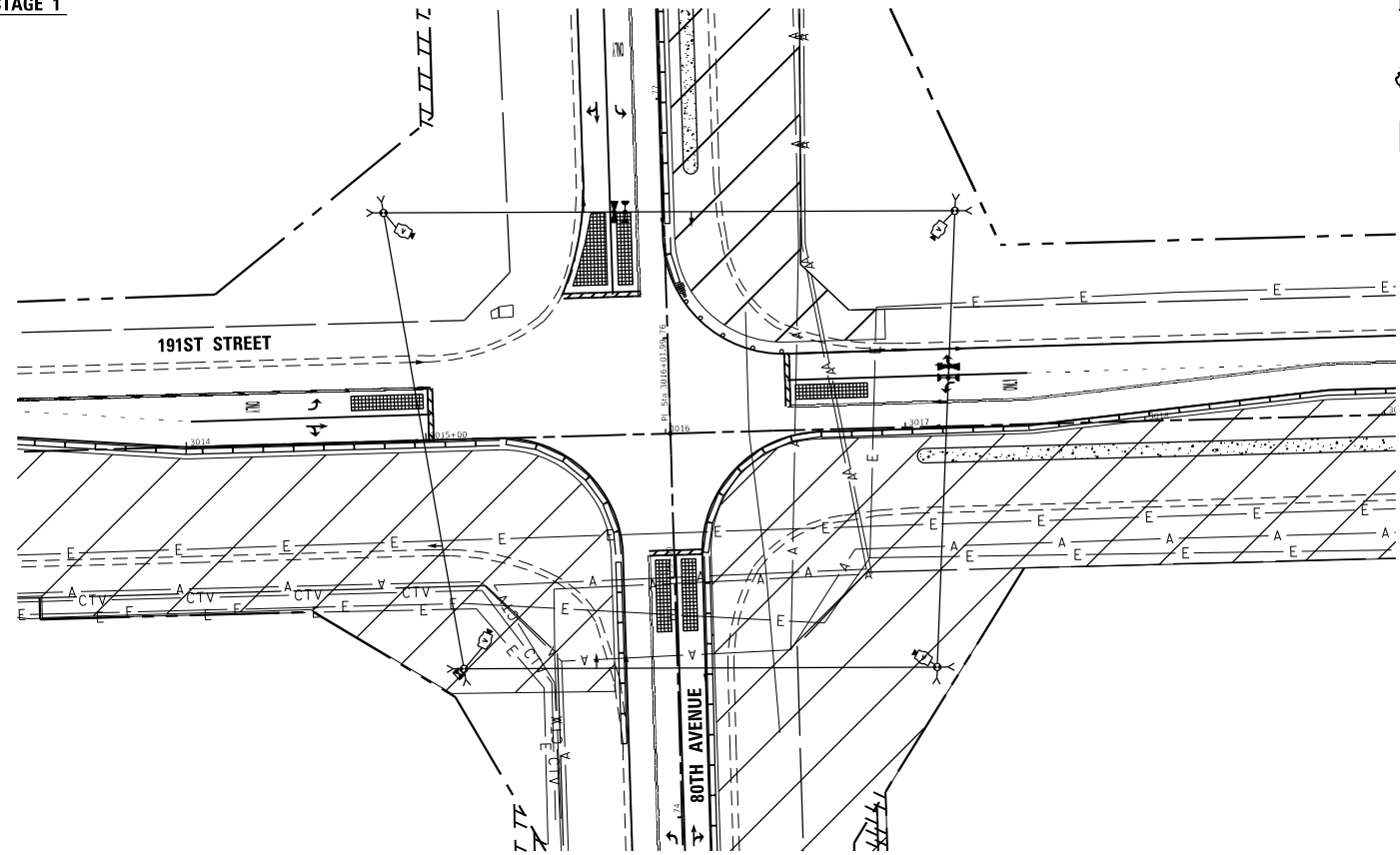
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

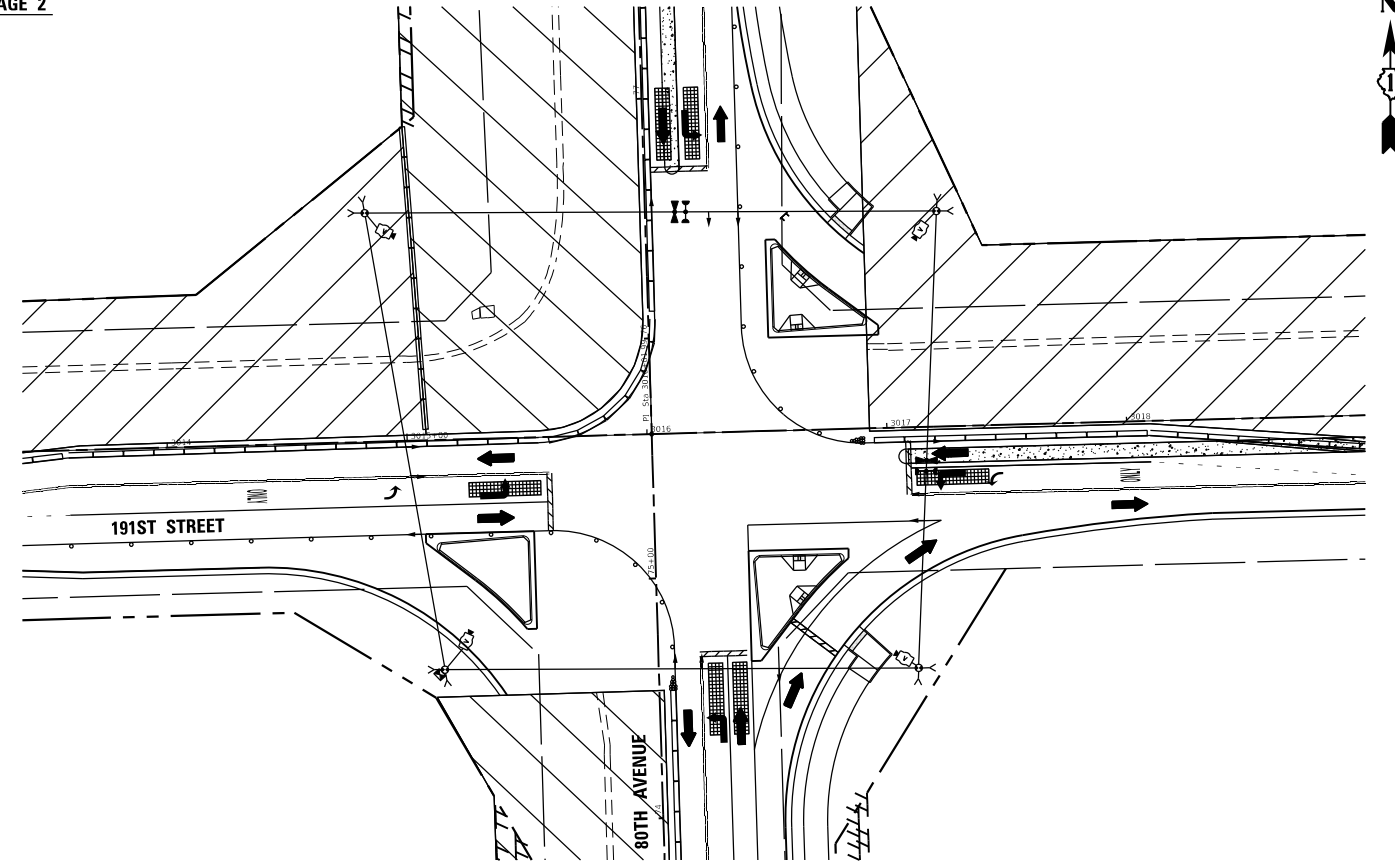
TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (SHEET 1 OF 2) 191ST STREET AND 80TH AVENUE			
SCALE: 1" = 20'	SHEET	OF	SHEETS
STA.	TO STA.		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	612
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				

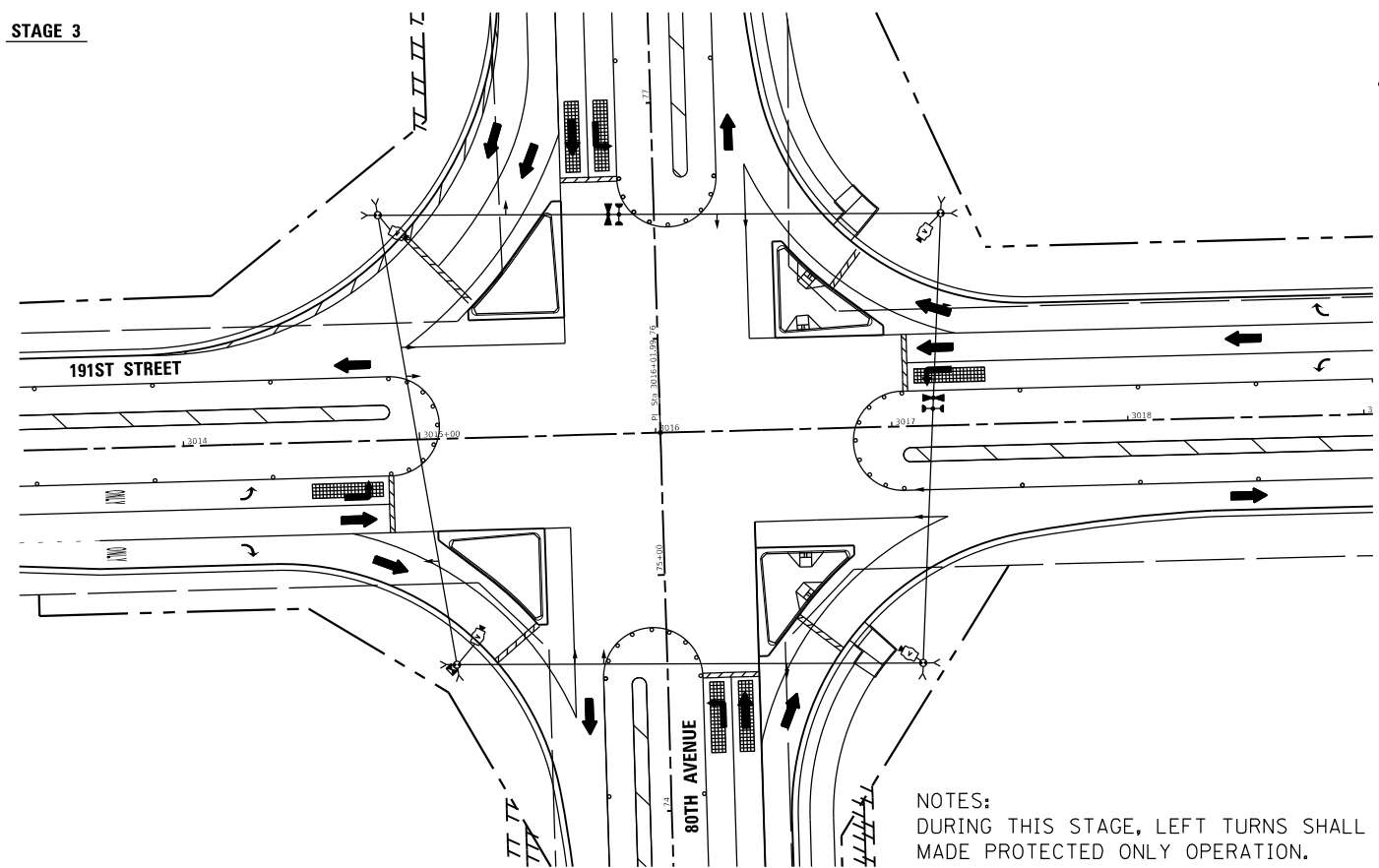
STAGE 1



STAGE 2



STAGE 3



NOTES:
 DURING THIS STAGE, LEFT TURNS SHALL BE
 MADE PROTECTED ONLY OPERATION.

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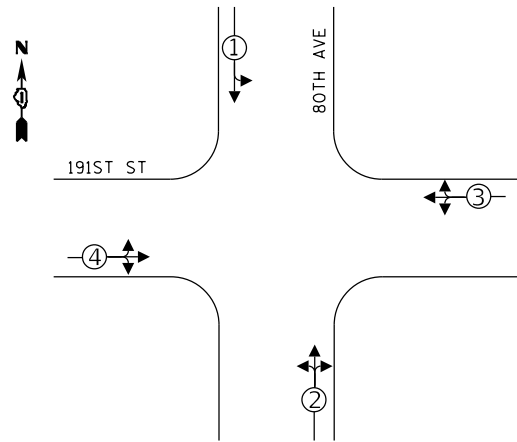
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN (SHEET 2 OF 2)
 191ST STREET AND 80TH AVENUE

SCALE: 1" = 40' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	613
				CONTRACT NO. 61G73
ILLINOIS FED. AID PROJECT				

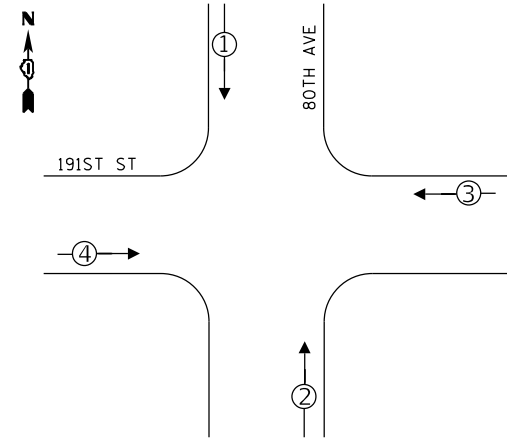
TEMPORARY CONTROLLER SEQUENCE



- LEGEND:**
- ← ⊙ → PROTECTED PHASE
 - ← ⊙ - - PROTECTED/PERMITTED PHASE
 - ← ⊙ → PEDESTRIAN PHASE
 - ← ⊙ OL OVERLAP

TEMPORARY SIGNAL PHASING				
EMERGENCY VEHICLE PREEMPTORS	1	2	3	4
MOVEMENT	↓	↕	↕	↕

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



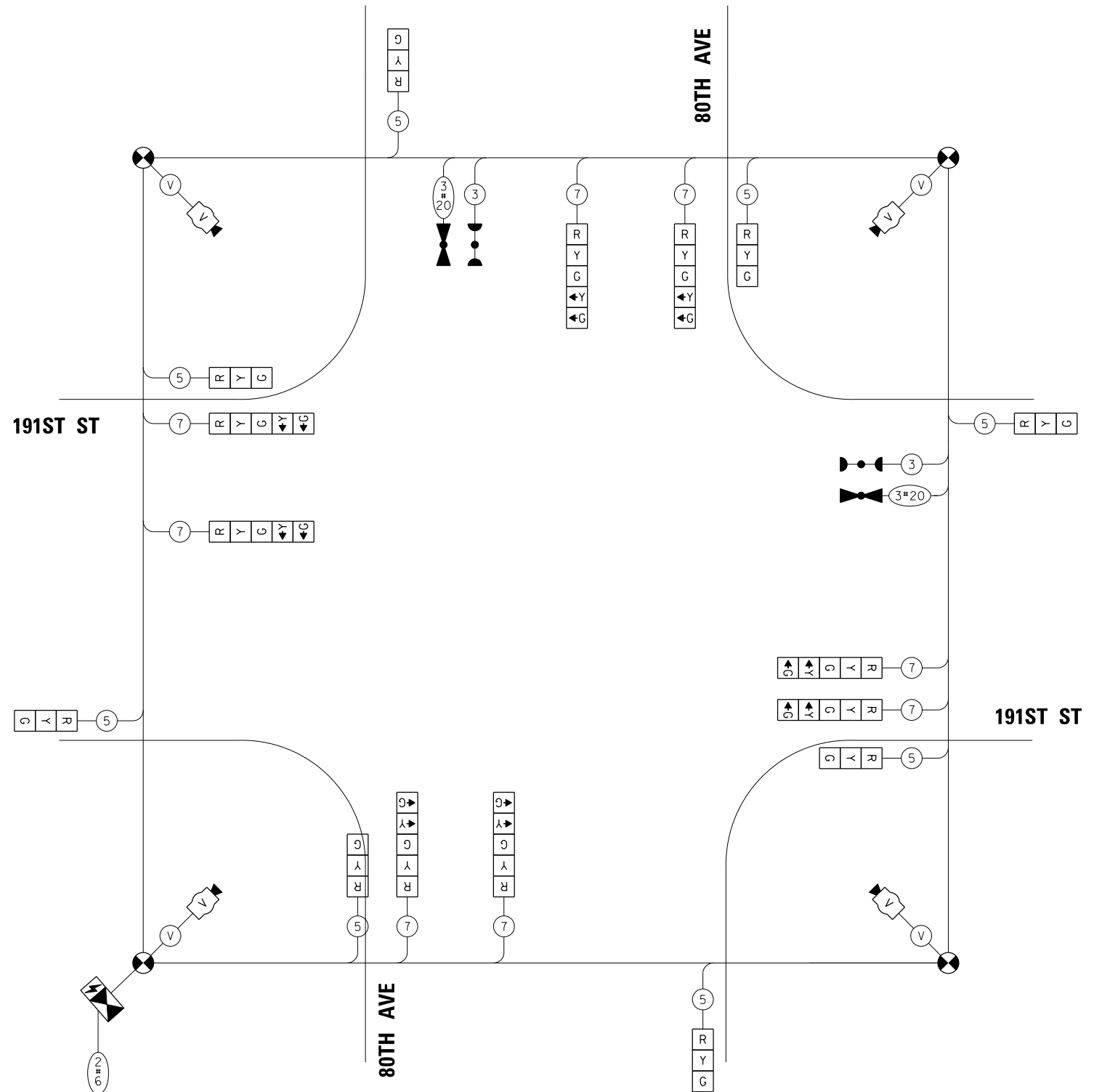
**LOCATION: 191ST STREET AND 80TH AVENUE
WILL COUNTY
DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. LAMPS	WATTAGE	%OPERATION	TOTAL WATTAGE
CONTROLLER	1	100	100	100
VEHICLE DET.	10	5	5	50
PED. SIGNAL	0	25	100	--
12" SIGNAL (RED)	12	17	50	102
(YELLOW)	12	25	25	75
(GREEN)	12	15	25	45
(ARROW)	16	12	10	19.2
TOTAL =				391.2

ENERGY COSTS TO: WILL COUNTY DIVISION OF TRANSPORTATION ENERGY COST SHARE: WILL COUNTY: 100%

TOWER ACCOUNT NO. XXXXXXXXXX
SUPPLEMENT NO. XXXXXXXXXX
WILL COUNTY DEPARTMENT OF TRANSPORTATION
16841 W. LARAWAY ROAD,
JOLIET, IL 60433

ENERGY SUPPLY CONTACT: COMPANY: COMED EFFECTIVE DATE: TO BE DETERMINED
PHONE: (866) 639-3532



CABLE PLAN
(NOT TO SCALE)

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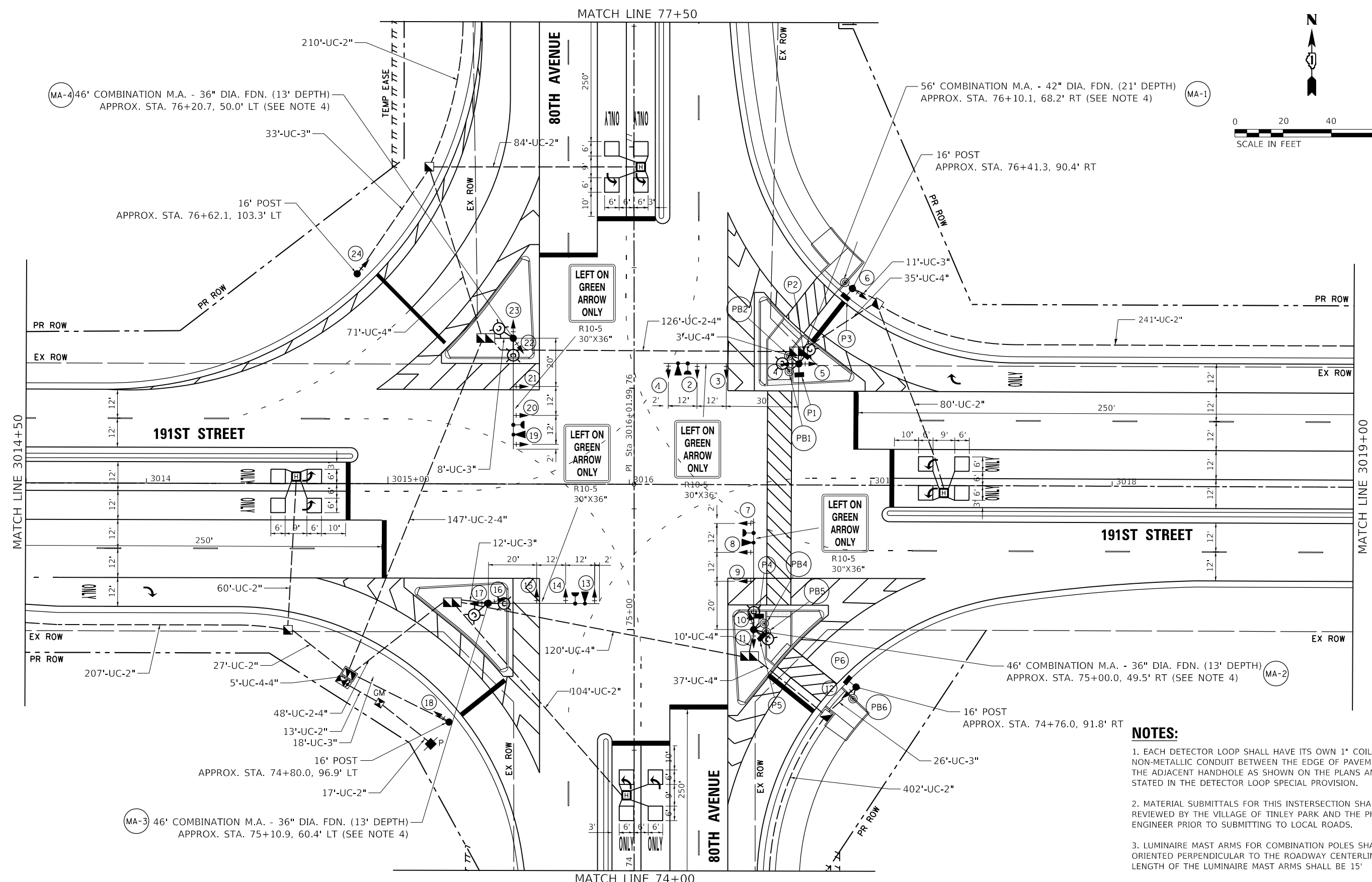
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY PREEMPTION SEQUENCE
191ST STREET AND 80TH AVENUE - ALL STAGES**

SCALE: N.T.S. SHEET 615 OF 1113 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	614
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				

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- NOTES:**
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.
 2. MATERIAL SUBMITTALS FOR THIS INTERSECTION SHALL BE REVIEWED BY THE VILLAGE OF TINLEY PARK AND THE PHASE 2 ENGINEER PRIOR TO SUBMITTING TO LOCAL ROADS.
 3. LUMINAIRE MAST ARMS FOR COMBINATION POLES SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY CENTERLINE. THE LENGTH OF THE LUMINAIRE MAST ARMS SHALL BE 15'
 4. ALL STEEL COMBINATION MAST ARM ASSEMBLY AND POLES SHALL INCLUDE A FACTORY INSTALLED VIBRATION DAMPENER WHICH SHALL BE INCLUDED IN THE COST OF THE STEEL COMBINATION MAST ARM ASSEMBLY AND POLE PAY ITEMS.

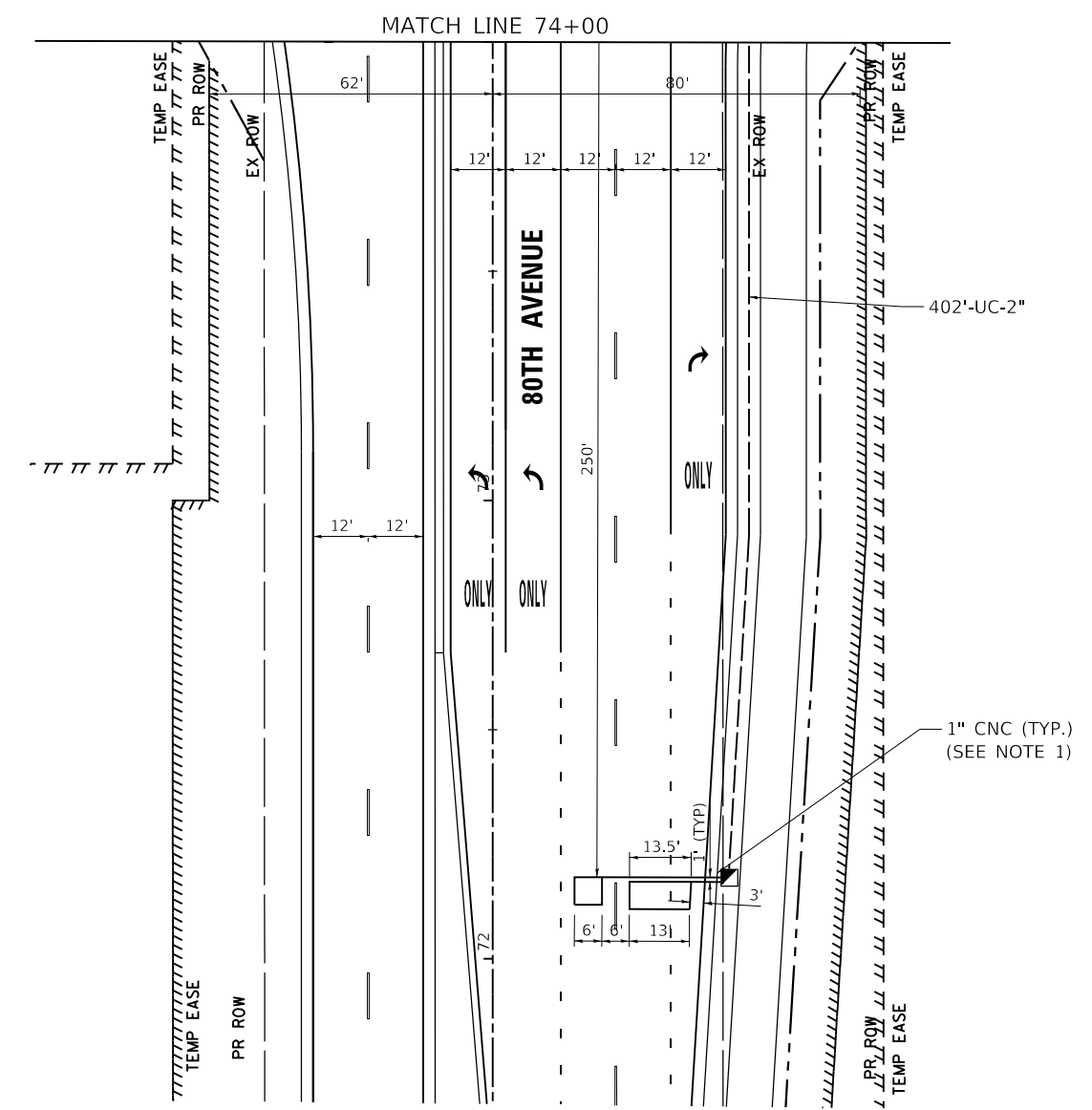
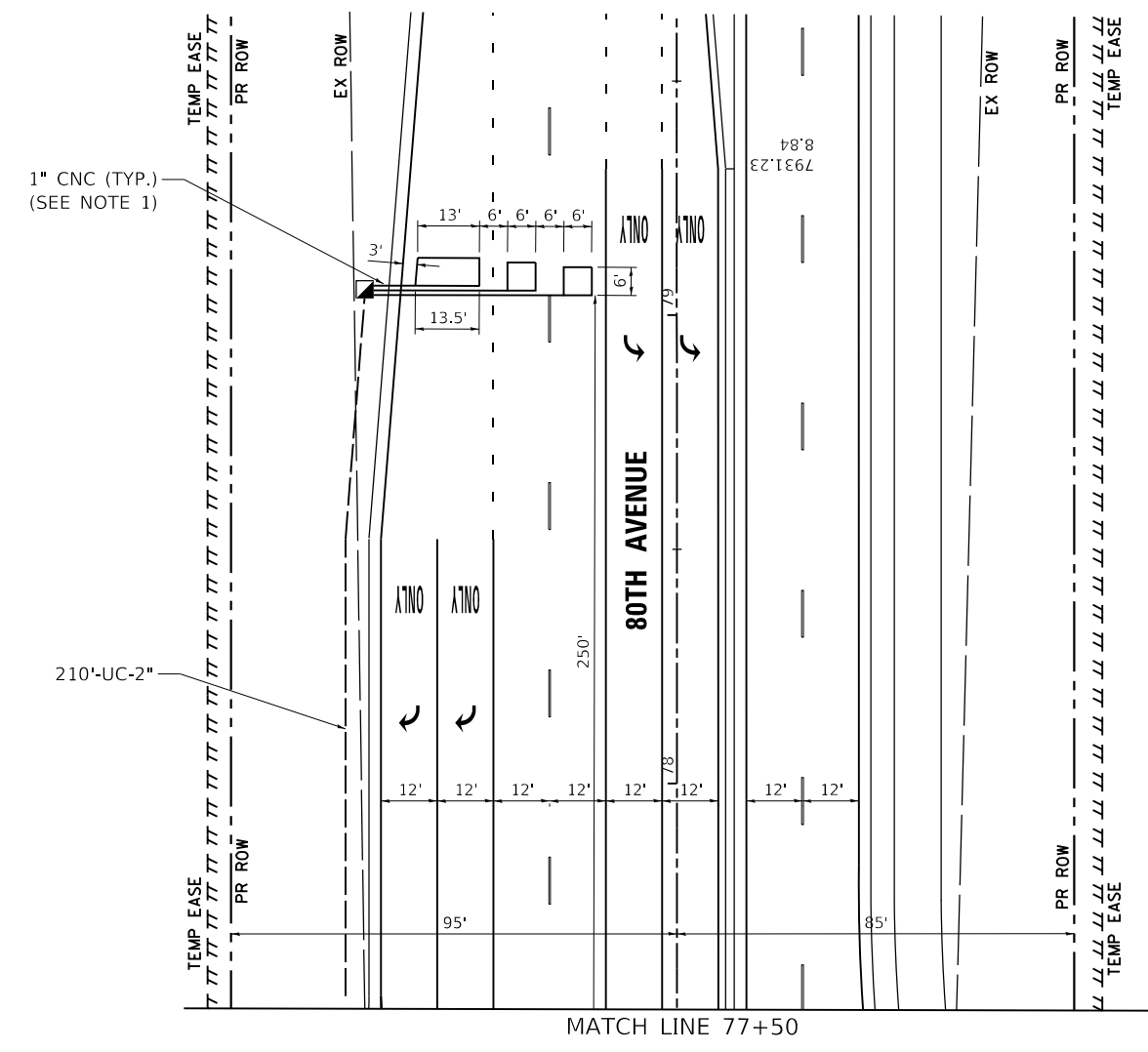
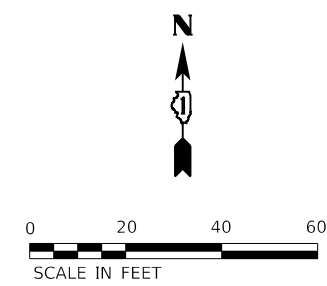


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
191ST STREET AND 80TH AVENUE		2755	06-00122-16-FP	WILL	1113	615
SCALE: 1" = 20'		SHEET OF SHEETS		STA.	TO STA.	
				ILLINOIS FED. AID PROJECT		

CONTRACT NO. 61G73	
--------------------	--



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.

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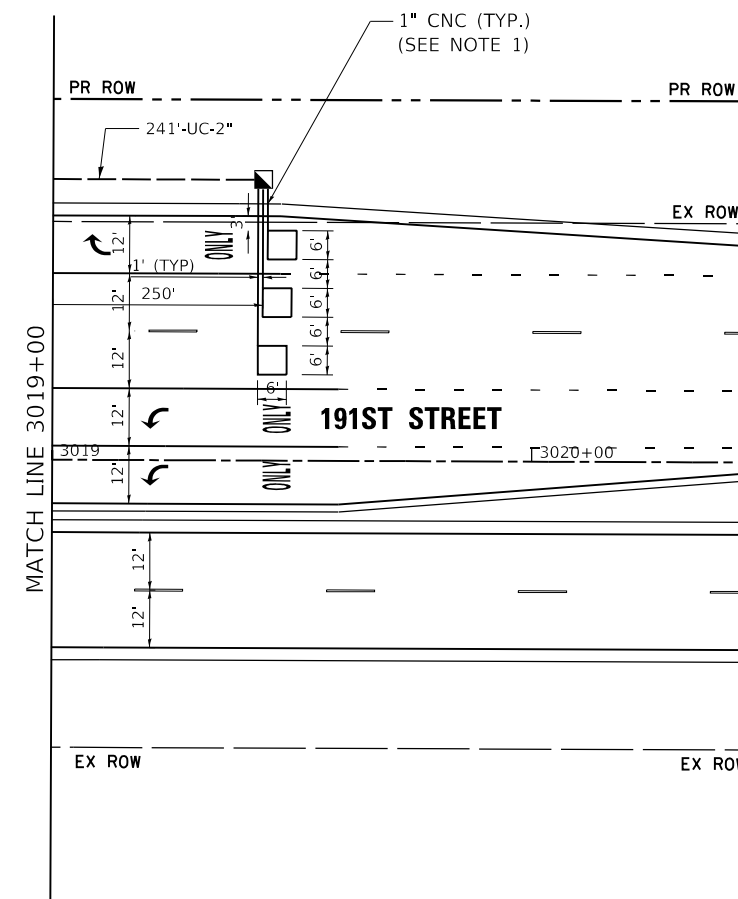
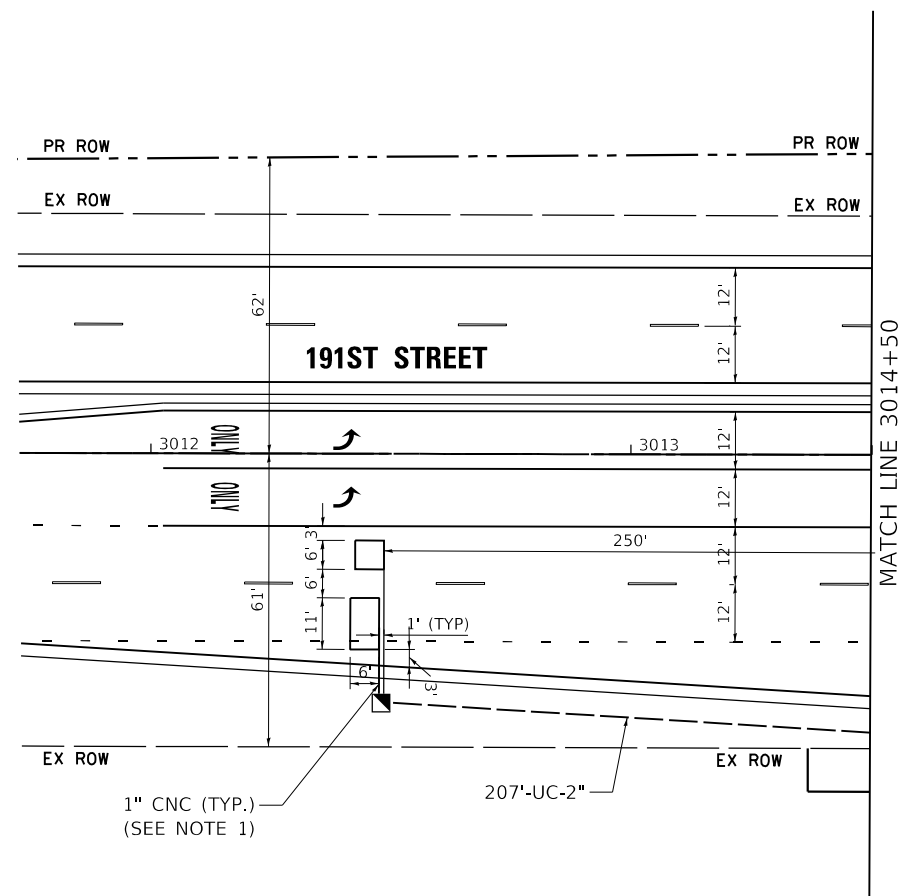
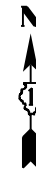


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DRAWN -	KWM	REVISIONS -			
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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN 191ST STREET AND 80TH AVENUE			
SCALE: 1" = 20'	SHEET	OF	SHEETS
STA.	TO	STA.	TO

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	616
				CONTRACT NO. 61G73
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1\"/>

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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISIONS -	

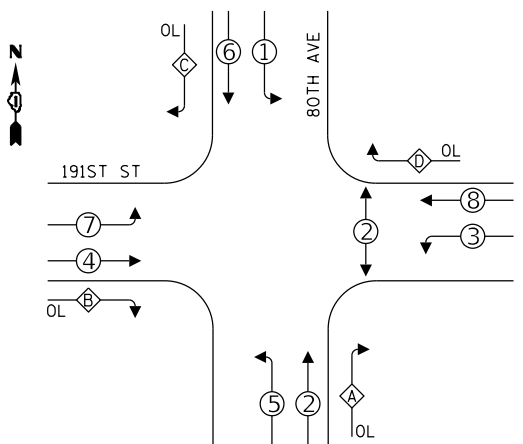
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN
191ST STREET AND 80TH AVENUE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	617
				CONTRACT NO. 61G73
		ILLINOIS	FED. AID PROJECT	

CONTROLLER SEQUENCE

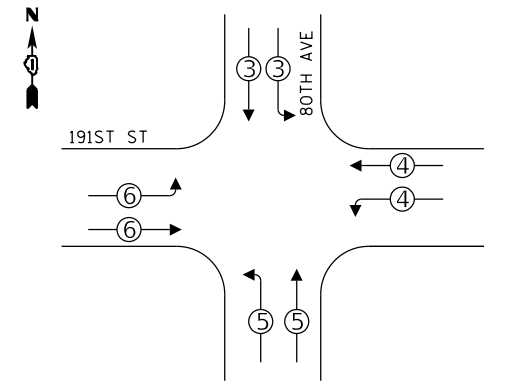


LEGEND:

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

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	3
B =	4 +	5
C =	6 +	7
D =	8 +	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTORS	3	4	5	6
MOVEMENT	↓ ↓	← ←	↑ ↑	→ →

**LOCATION: 191ST STREET AND 80TH AVENUE
WILL COUNTY
DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS**

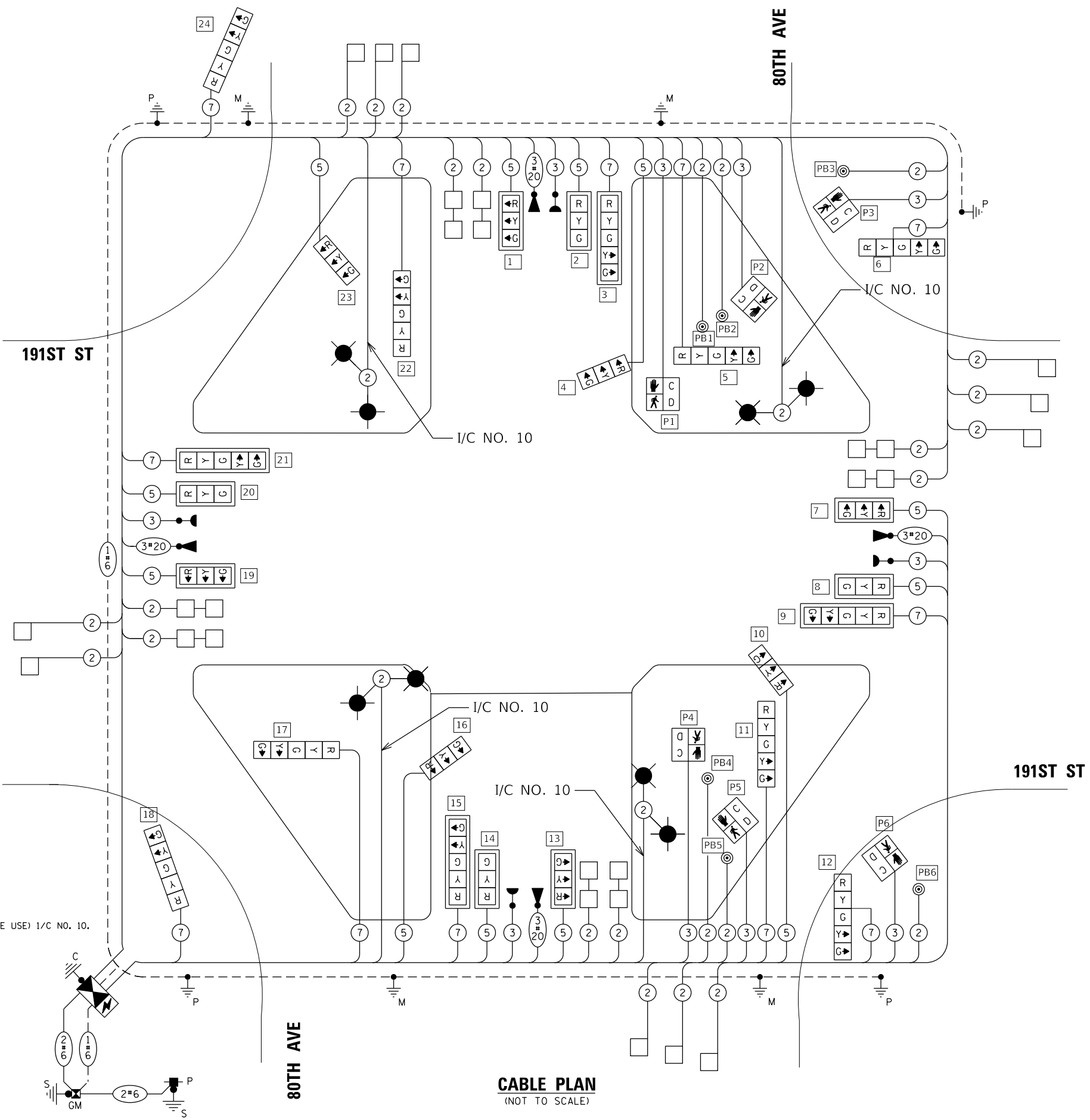
TYPE	NO. LAMPS	WATTAGE	%OPERATION	TOTAL WATTAGE
CONTROLLER	1	100	100	100
VEHICLE DET.	8	5	5	2
PED. SIGNAL	6	25	100	150
12" SIGNAL (RED)	16	17	50	136
(YELLOW)	16	25	25	100
(GREEN)	16	15	25	60
(ARROW)	8	12	10	9.6
UPS	1	25	100	25
COMB. POLE LUM.	8	149	50	596
TOTAL =				1,178.6

ENERGY COSTS TO: ENERGY COST SHARE:
WILL COUNTY DIVISION OF TRANSPORTATION WILL COUNTY: 100%

TOWER ACCOUNT NO. XXXXXXXXXX
SUPPLEMENT NO. XXXXXXXXXX
WILL COUNTY DEPARTMENT OF TRANSPORTATION
16841 W LARAWAY ROAD
JOLIET, IL 60433

ENERGY SUPPLY CONTACT: EFFECTIVE DATE:
COMPANY: COMED TO BE DETERMINED
PHONE: (866) 639-3532

- NOTES:
1.) COMBINATION POLE LUMINAIRES ARE CONNECTED TO THE TRAFFIC SIGNAL CONTROLLER.
2.) CABLE FOR THE COMBINATION POLE LUMINAIRES PAID FOR AS ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10.



CABLE PLAN
(NOT TO SCALE)

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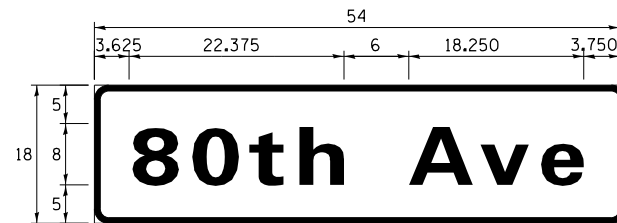
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY PREEMPTION SEQUENCE**
191ST STREET AND 80TH AVENUE
SCALE: N.T.S. SHEET 633 OF 1113 SHEETS STA. TO STA.

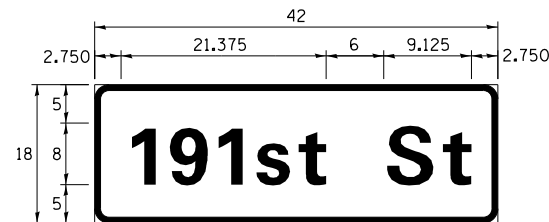
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	618
				CONTRACT NO. 61G73
ILLINOIS FED. AID PROJECT				

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	5.25	1	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SO FT	24
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,445
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	112
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	918
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	5
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,120
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,235
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,281
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,212
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	7,189
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	54
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	806
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	39
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	19
DETECTOR LOOP, TYPE I	FOOT	1,024
LIGHT DETECTOR	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	7
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,101
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	8
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,319

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

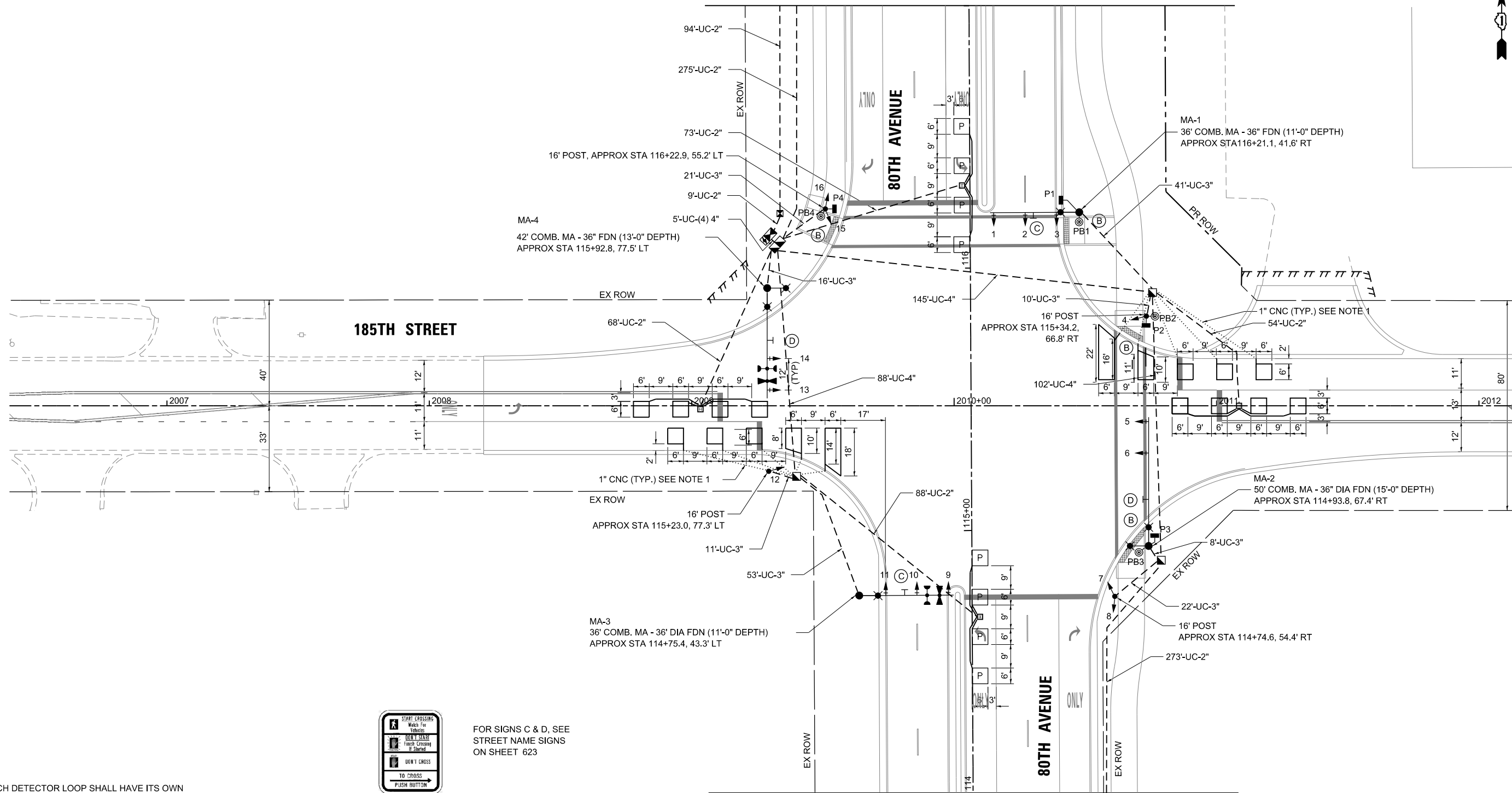
**80TH AVENUE
MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES**

SCALE: N.T.S. SHEET SMOT-ST001113 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	619
				CONTRACT NO. 61G73
				ILLINOIS FED. AID PROJECT



MATCHLINE STA 117+00
SEE SHEET 621



185TH STREET

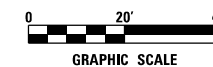
80TH AVENUE
ONLY

NOTE:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND ADJACENT HANDHOLE AS SHOWN ON PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.
2. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED ON THE APPROACHES TO THIS INTERSECTION AT LEAST ONE WEEK PRIOR TO TURNING ON THIS TRAFFIC SIGNAL.
3. LUMINAIRE MAST ARMS FOR COMBINATION POLES SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY CENTERLINE. THE LENGTH OF LUMINAIRE MAST ARMS SHALL BE 15'.



FOR SIGNS C & D, SEE STREET NAME SIGNS ON SHEET 623



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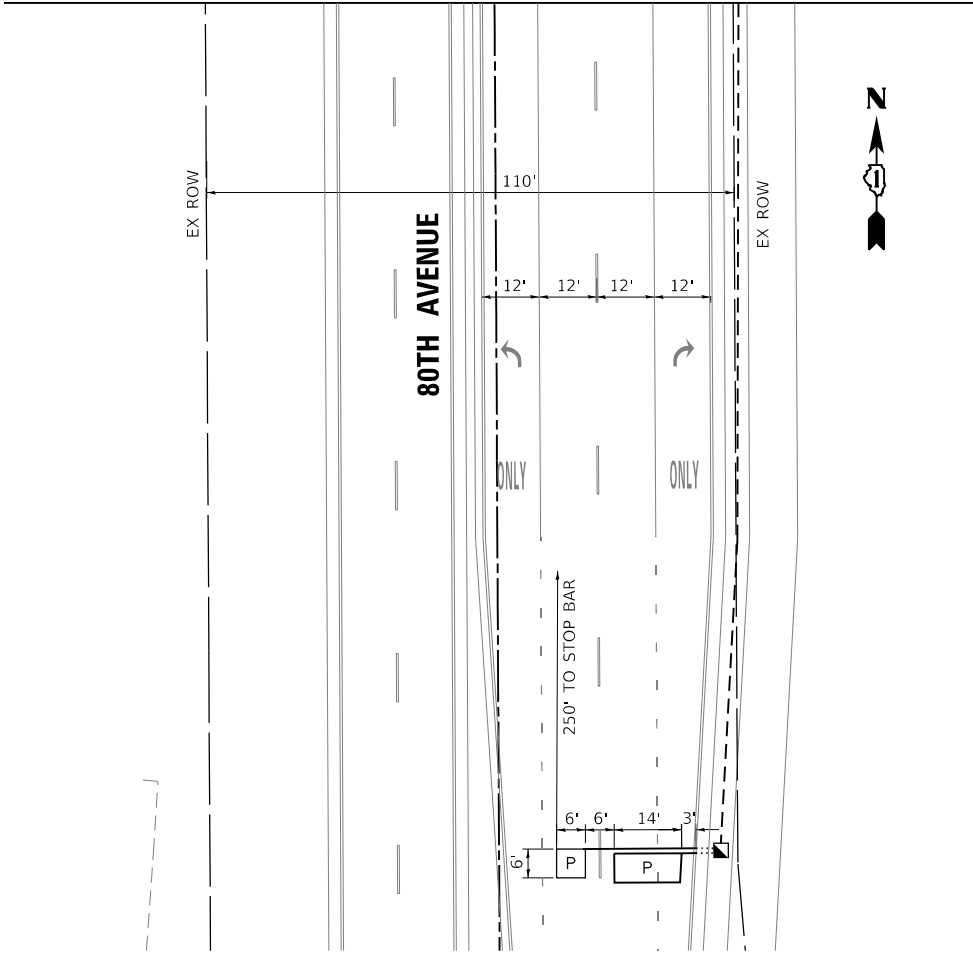
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE TRAFFIC SIGNAL PLAN 185TH STREET AND 80TH AVENUE			
SCALE: 1" = 20'	SHEET	OF SHEETS	STA. TO STA.

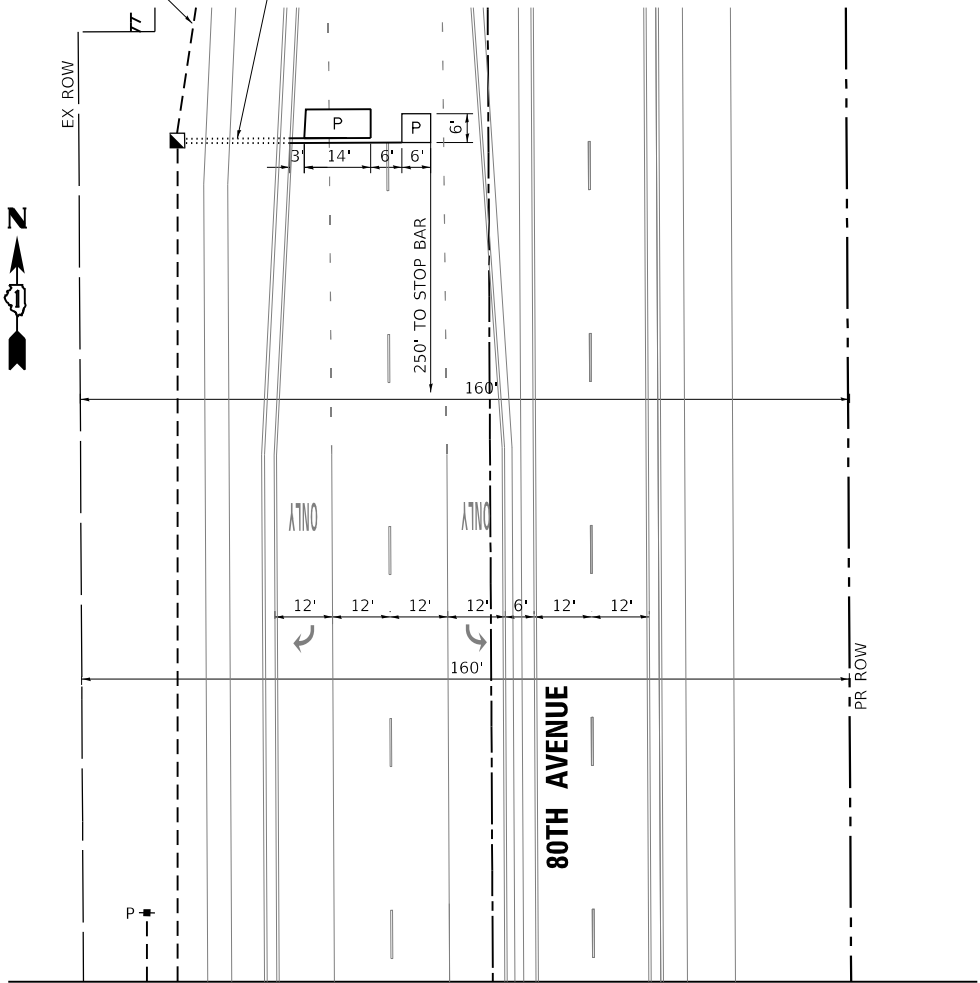
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	620
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				

MATCHLINE STA 114+00
SEE SHEET 620



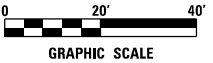
INTERCONNECT TO 183RD STREET
SEE INTERCONNECT PLAN

1" CNC (TYP.) SEE NOTE 1



MATCHLINE STA 117+00
SEE SHEET 620

NOTE:
EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND ADJACENT HANDHOLE AS SHOWN ON PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.



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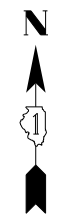


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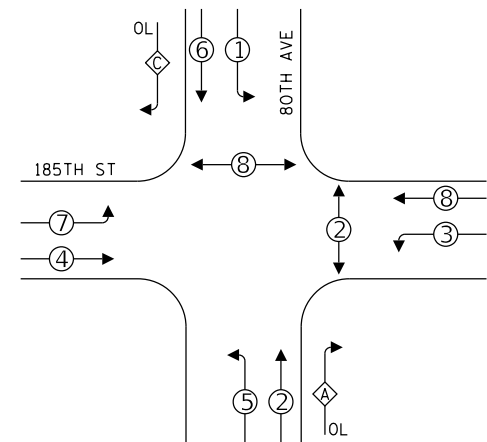
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

80TH AVENUE TRAFFIC SIGNAL PLAN 185TH STREET AND 80TH AVENUE			
SCALE: 1" = 20'	SHEET	OF	SHEETS
STA.	TO STA.		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	621
CONTRACT NO. 61G73				
ILLINOIS		FED. AID PROJECT		



CONTROLLER SEQUENCE

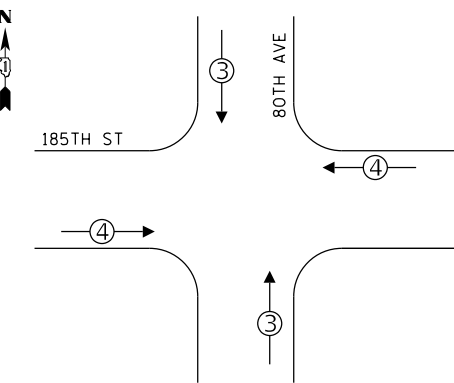


LEGEND:

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

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↓ ↑	← →

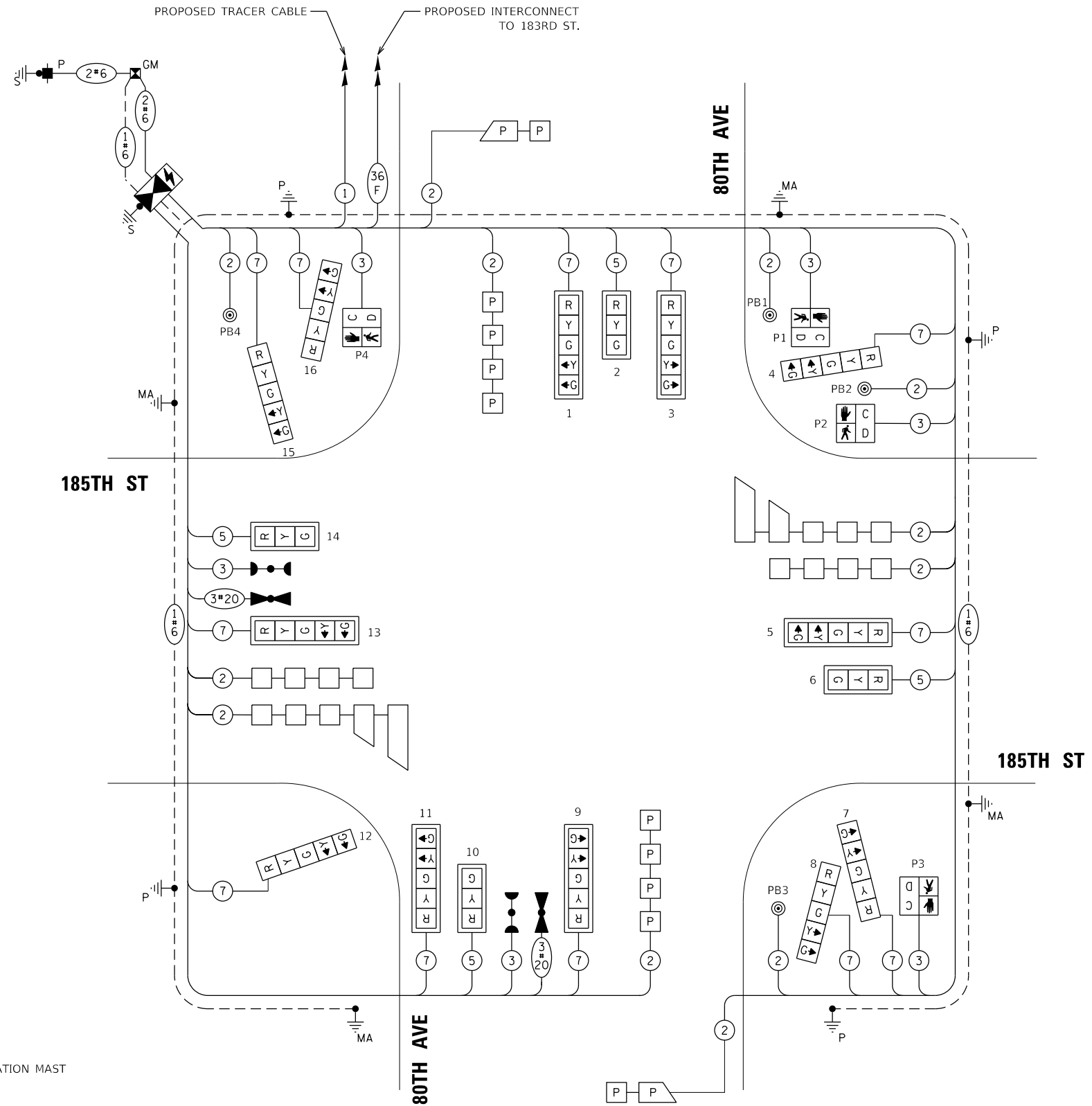
80TH AVE AND 185TH ST TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PROTECTED ARROW	24	10	10	24.0
PED. SIGNAL	4	20	100	80.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	100	-
LUMINAIRE	-	250	50	-
TOTAL =				419.4

ENERGY COSTS TO:

VILLAGE OF TINLEY PARK
16250 S. OAK PARK AVE.
TINLEY PARK, IL 60477

ENERGY SUPPLY CONTACT: NEW BUSINESS
COMPANY: COMMONWEALTH EDISON
PHONE: (866) 639-3532
ACCOUNT NUMBER: ---



CABLE PLAN
(NOT TO SCALE)

NOTES:

- TRAFFIC SIGNAL POSTS AND COMBINATION MAST ARM POLES WILL BE PAINTED BLACK

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REVISION -	
PLOT SCALE =	40,0000' / in.
PLOT DATE =	2/26/2021

DESIGNED -	DTJ
DRAWN -	DTJ
REVISOR -	
CHECKED -	JMV
DATE -	11/23/2020
REVISION -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY PREEMPTION SEQUENCE
185TH STREET AND 80TH AVENUE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	622
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				

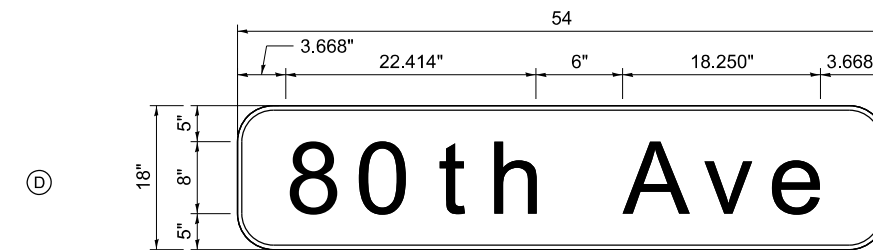
SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	32
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	918
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	182
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	355
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	2
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	769
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,100
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	942
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,555
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,599
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	130
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,013
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	50
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	627
PREFORMED DETECTOR LOOP	FOOT	468
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1

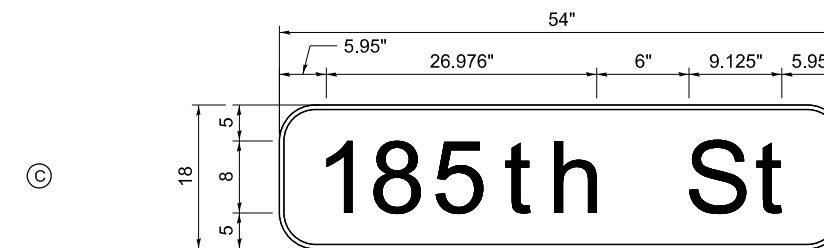
NOTE:

NEW TRAFFIC SIGNAL POSTS AND COMBINATION MAST ARM POLES SHALL BE PAINTED BLACK.

SIGN PANEL – TYPE 1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

NOTE:

FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION, SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
SCHEDULE OF QUANTITIES, STREET NAME SIGNS
185TH STREET AND 80TH AVENUE**

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 623
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE COUNTY'S MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE SPECIAL PROVISION.

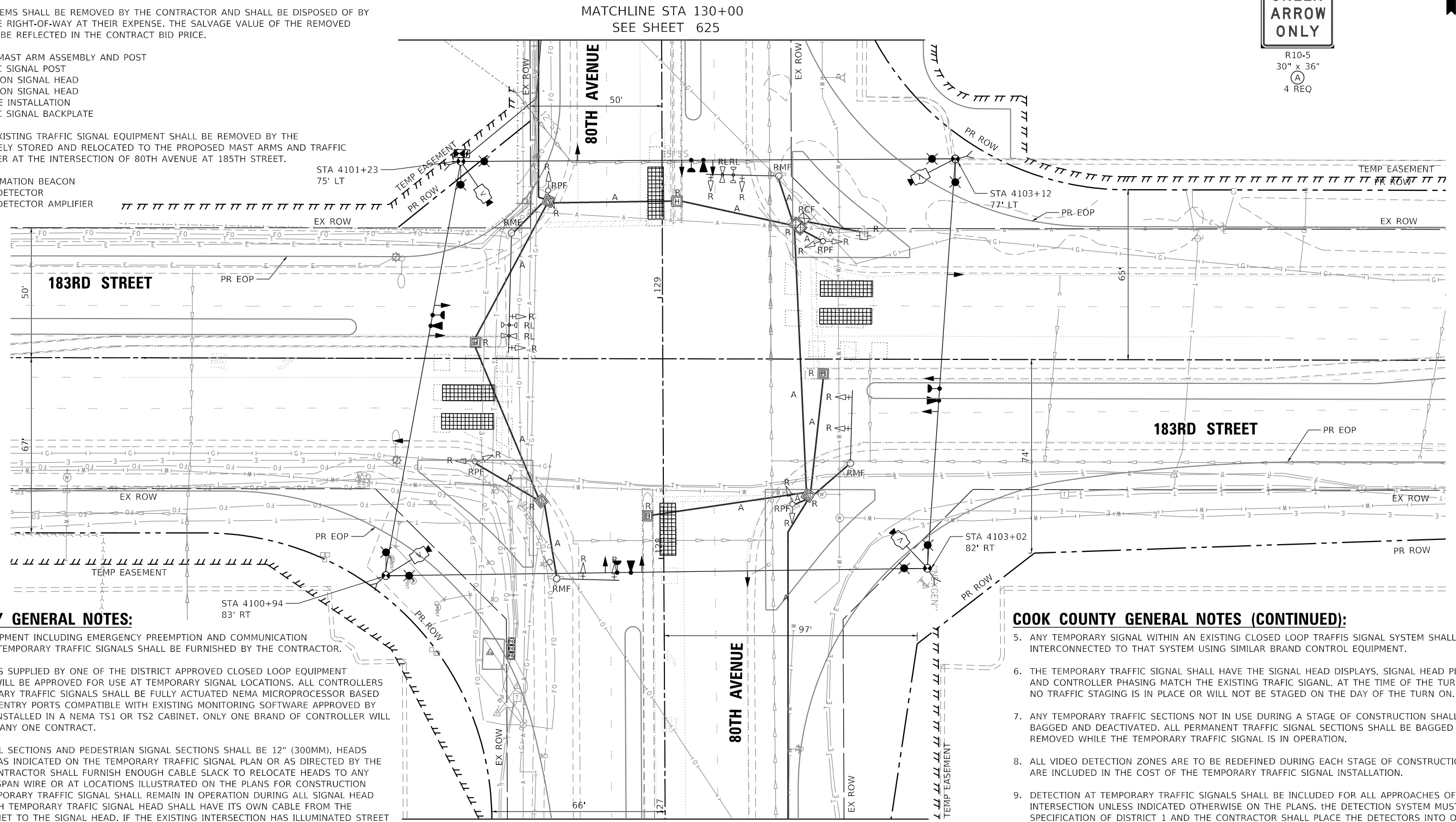
- 1 EACH CONTROLLER
- 1 EACH CABINET (COMPLETE)

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

- 4 EACH STEEL MAST ARM ASSEMBLY AND POST
- 4 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD
- 1 EACH SERVICE INSTALLATION
- 8 EACH TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED MAST ARMS AND TRAFFIC SIGNAL CONTROLLER AT THE INTERSECTION OF 80TH AVENUE AT 185TH STREET.

- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER



COOK COUNTY GENERAL NOTES:

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PREEMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNALS SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH TS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300MM). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD. IF THE EXISTING INTERSECTION HAS ILLUMINATED STREET NAME SIGNS THE CONTRACTOR SHALL FURNISH TEMPORARY STANDARD NONILLUMINATED SIGNS FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER. UPON COMPLETION OF THE PERMANENT TRAFFIC SIGNAL WORK, ALL STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AND RELOCATED TO PERMANENT TRAFFIC SIGNAL POLES AS DIRECTED BY THE ENGINEER.

COOK COUNTY GENERAL NOTES (CONTINUED):

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON. IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. ANY TEMPORARY TRAFFIC SECTIONS NOT IN USE DURING A STAGE OF CONSTRUCTION SHALL BE BAGGED AND DEACTIVATED. ALL PERMANENT TRAFFIC SIGNAL SECTIONS SHALL BE BAGGED OR REMOVED WHILE THE TEMPORARY TRAFFIC SIGNAL IS IN OPERATION.
8. ALL VIDEO DETECTION ZONES ARE TO BE REDEFINED DURING EACH STAGE OF CONSTRUCTION AND ARE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATION OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING ALL SIGNAL HEADS TO AGREE WITH CONSTRUCTION STAGING AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER AND IS CONSIDERED TO BE PART OF THE PAY ITEM TEMPORARY TRAFFIC SIGNAL INSTALLATION. IF THERE IS UTILITY CONFLICT, SIGNAL HEAD CAN BE PLACED HORIZONTALLY.

MATCHLINE 127+00
SEE SHEET 625
PRE-STAGE SHOWN

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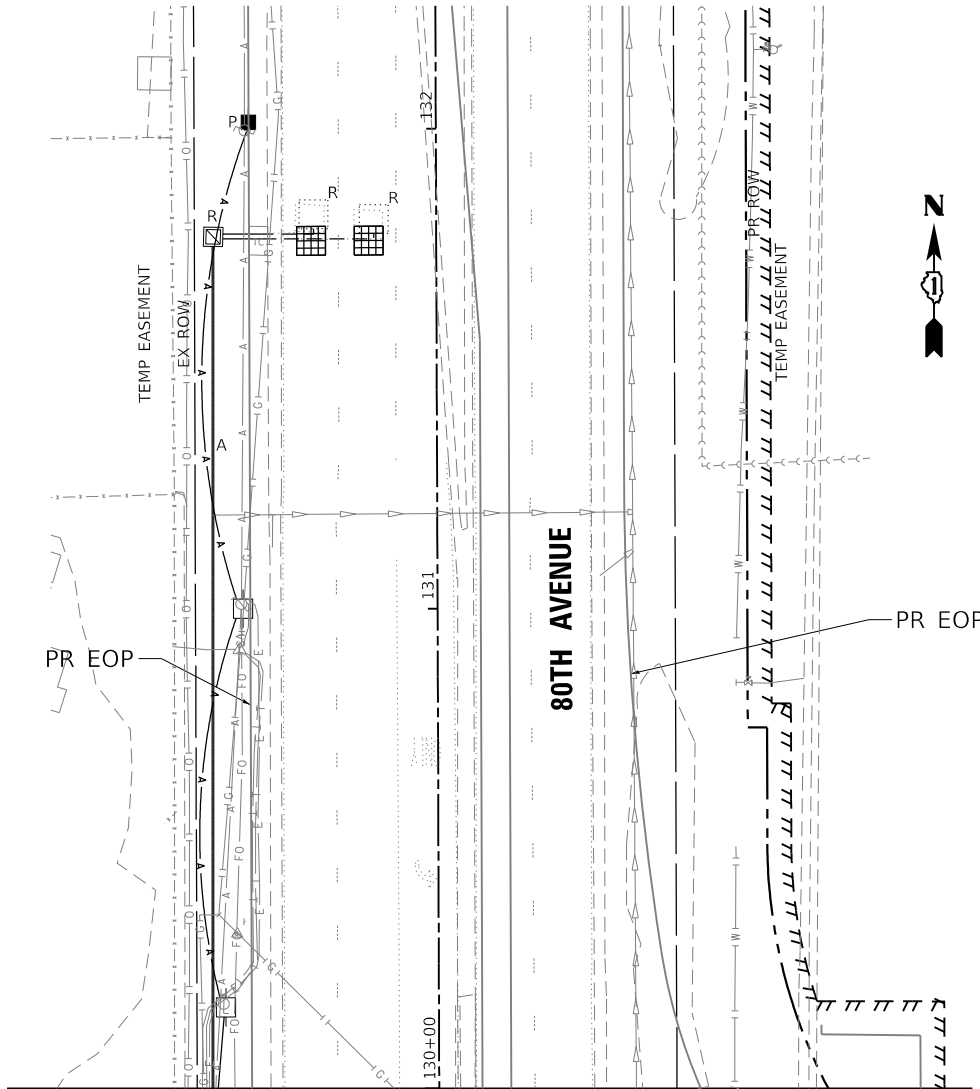
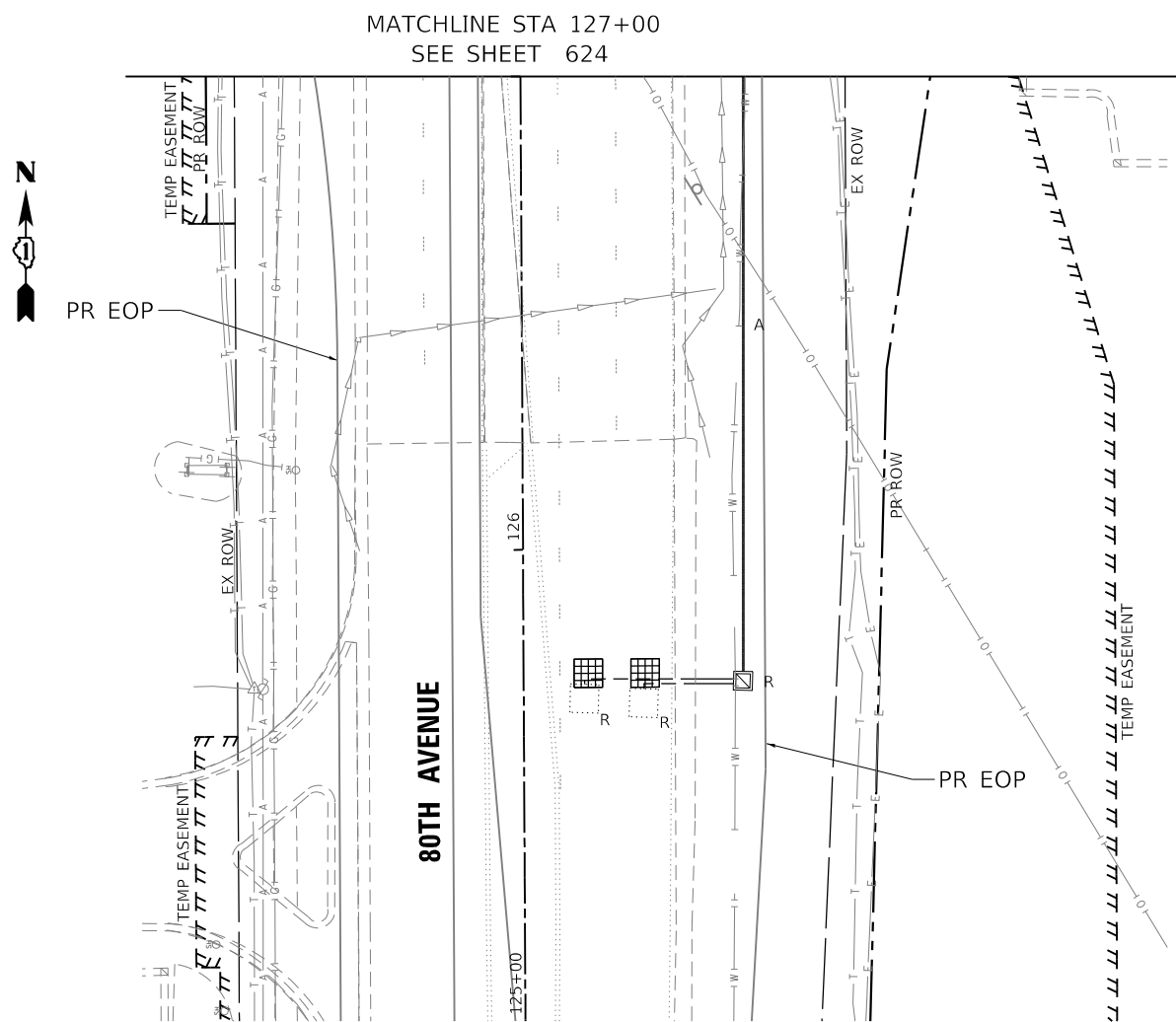
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVE
EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 1 OF 4)
183RD STREET AND 80TH AVENUE

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

F.A.U. RTE. = 2755	SECTION = 06-00122-16-FP	COUNTY = WILL	TOTAL SHEETS = 1113	SHEET NO. = 624
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	

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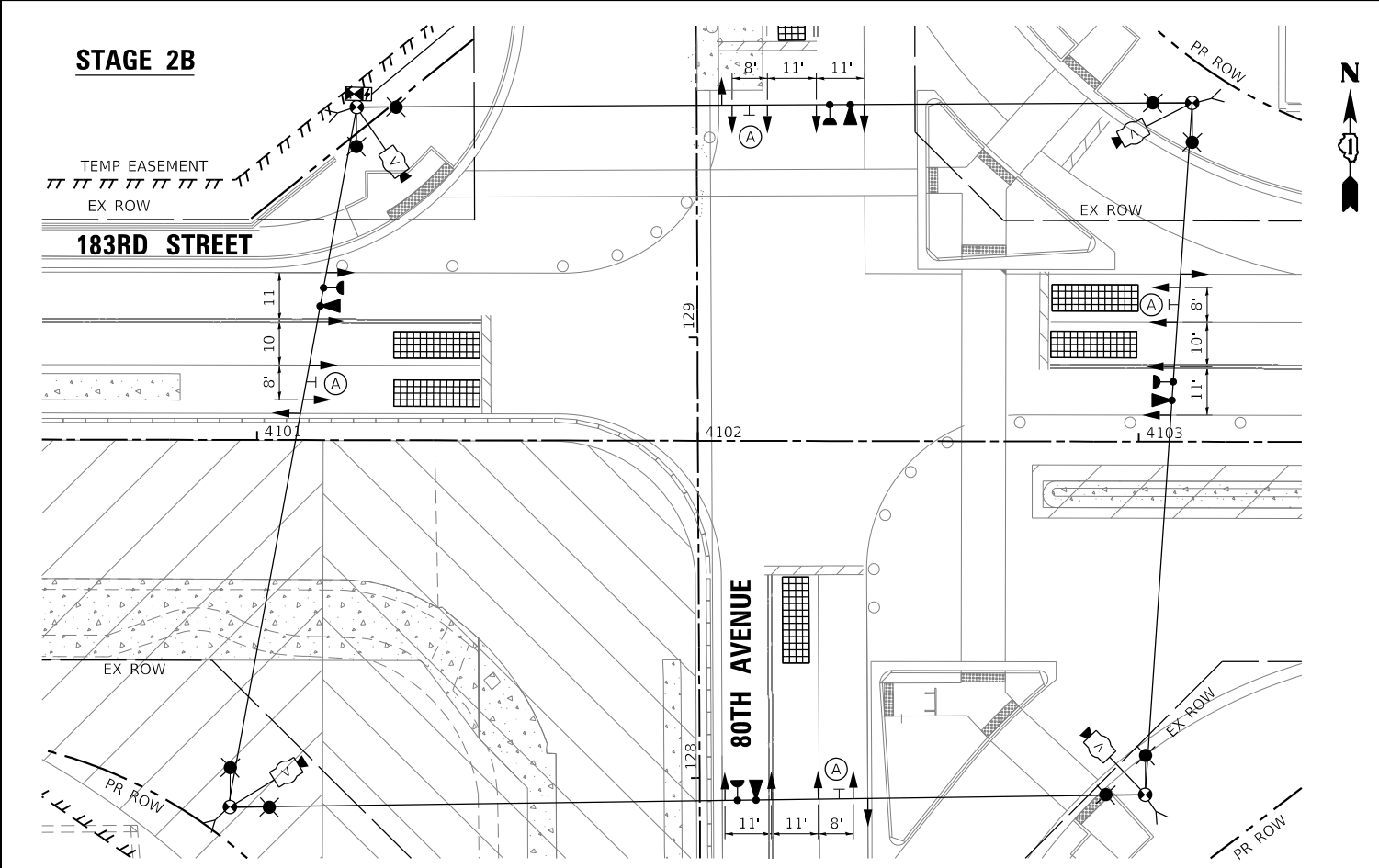
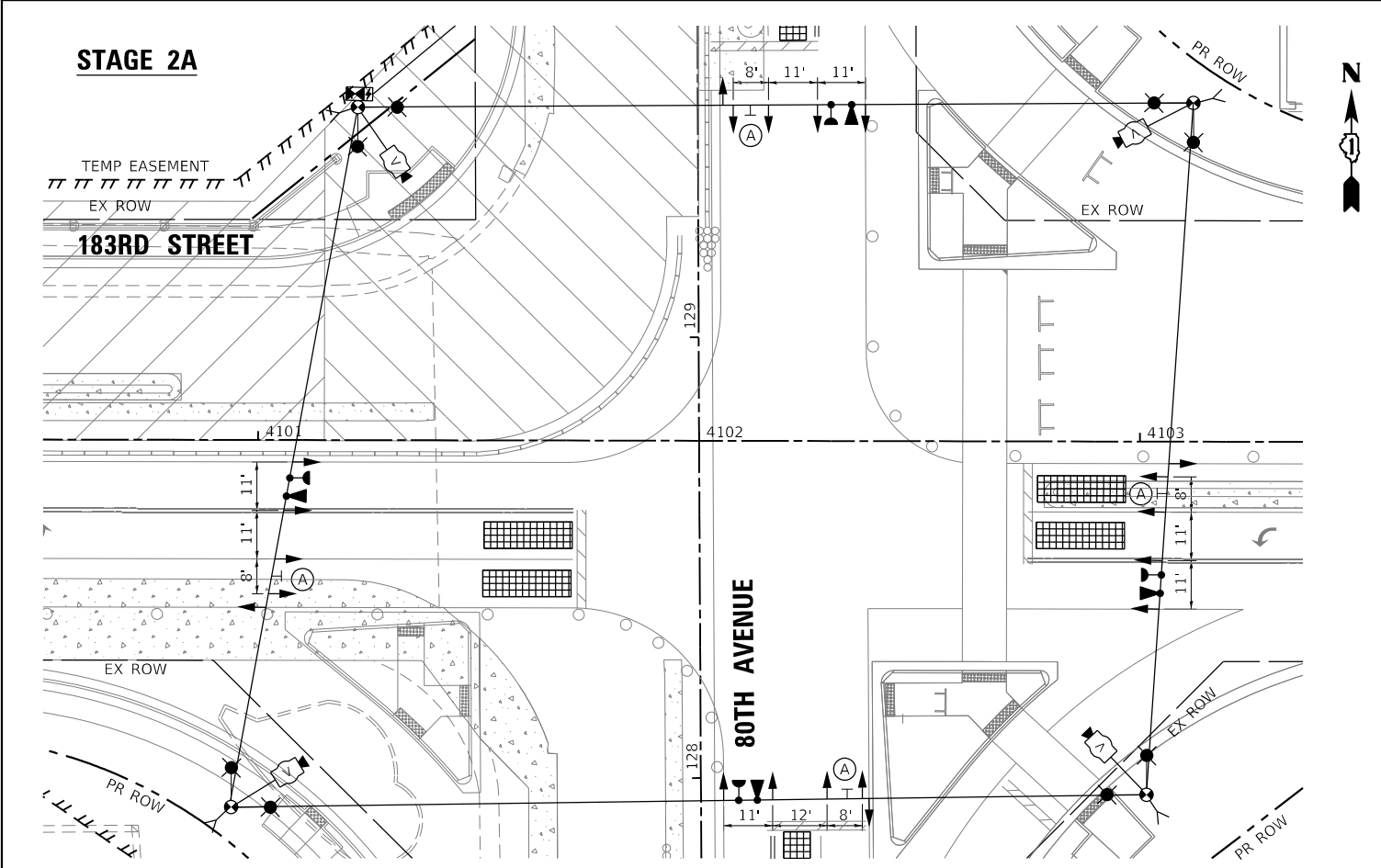
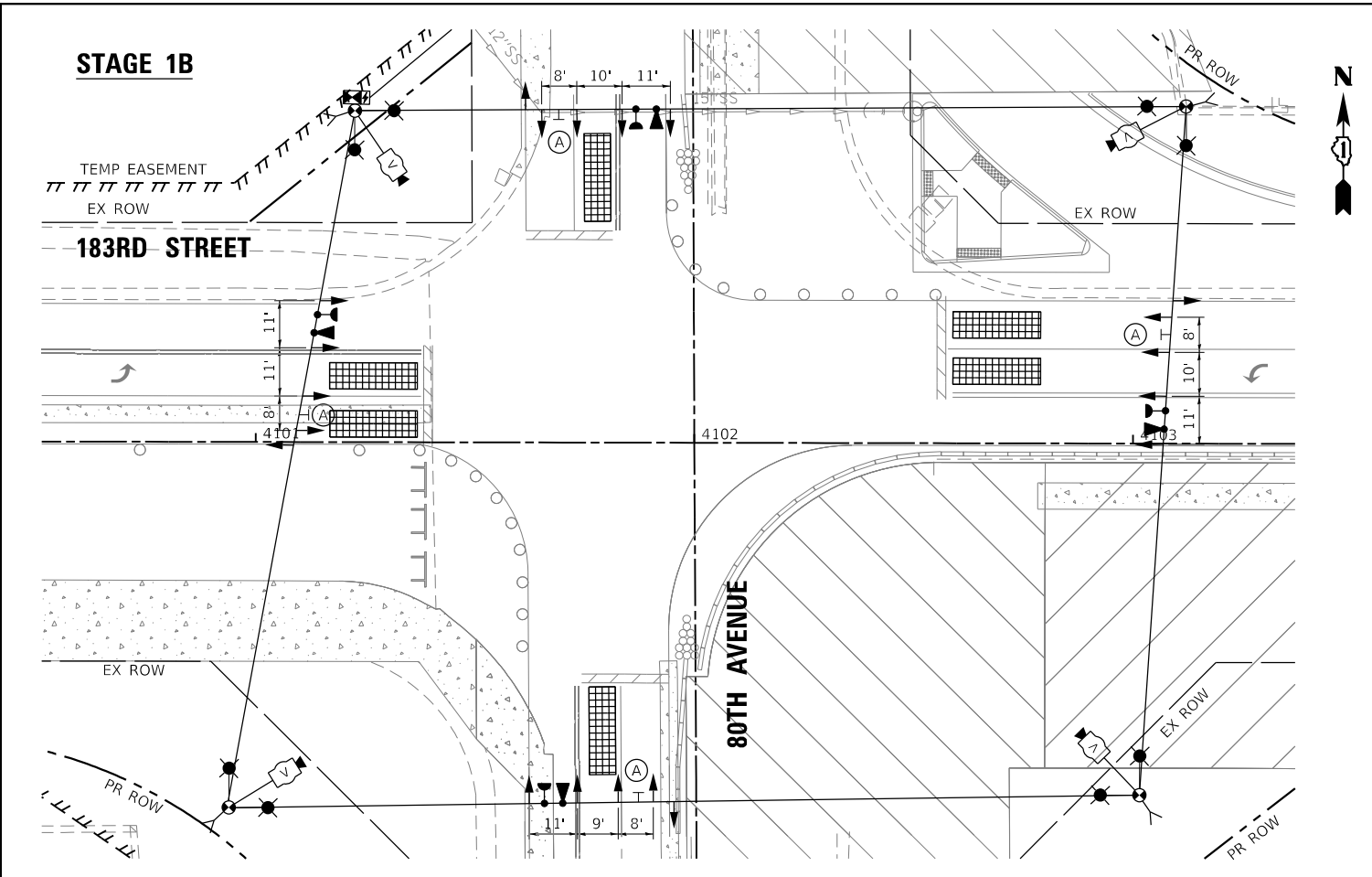
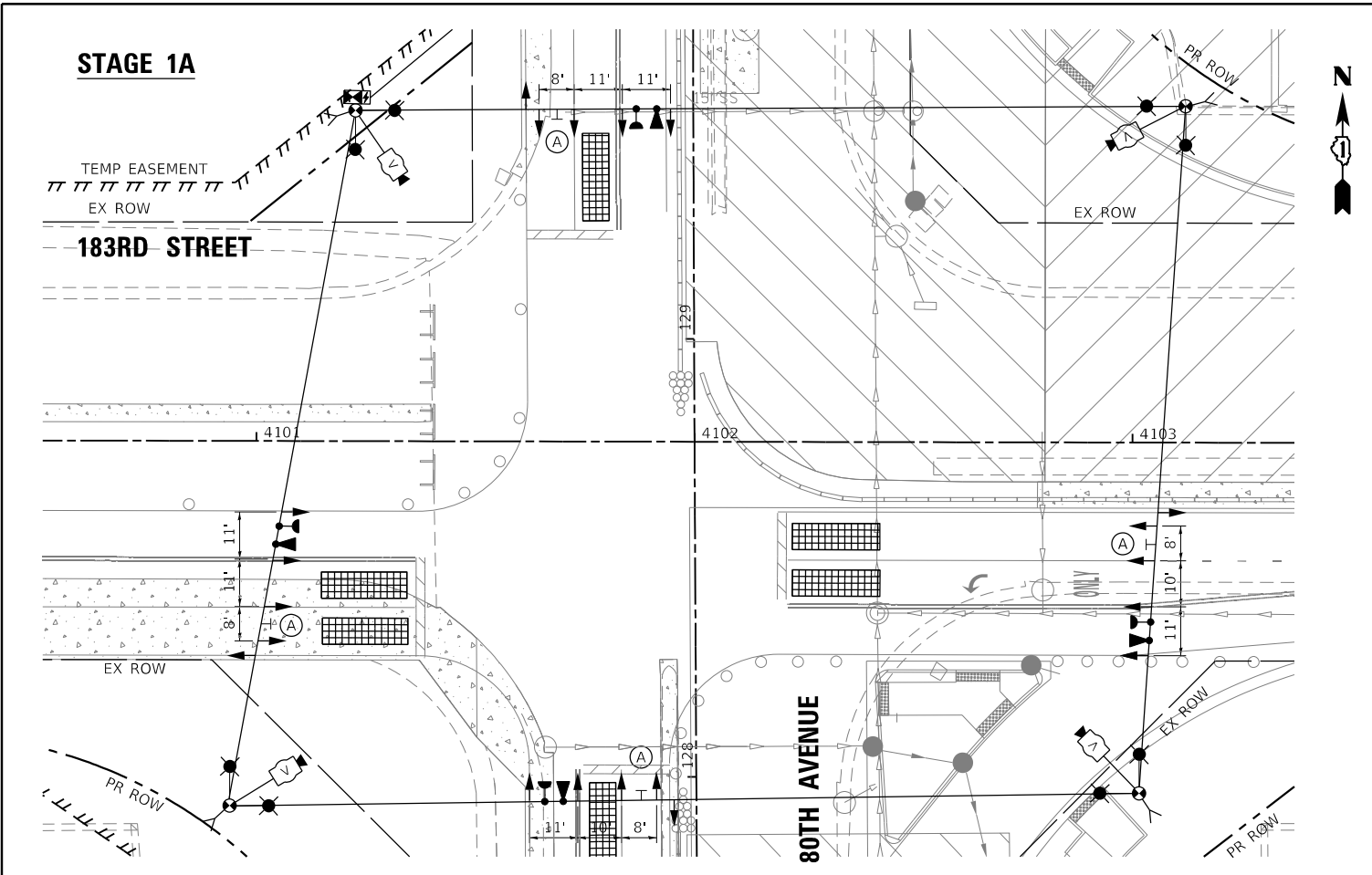
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC INSTALLATION PLAN AND REMOVE
EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 2 OF 4)
183RD STREET AND 80TH AVENUE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	625
CONTRACT NO. 61G73				
ILLINOIS		FED. AID PROJECT		



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

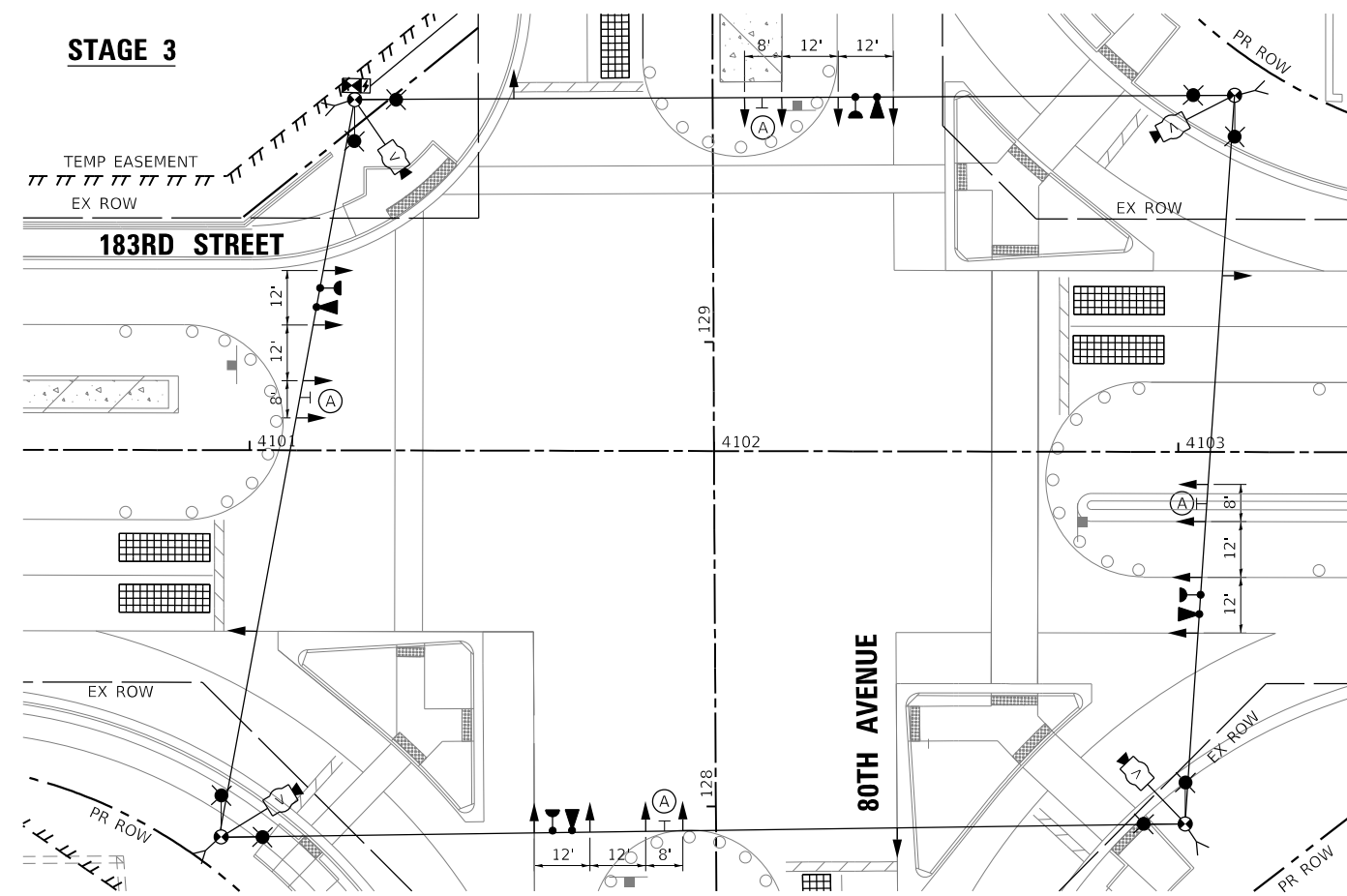
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EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 3 OF 4)
183RD STREET AND 80TH AVENUE**

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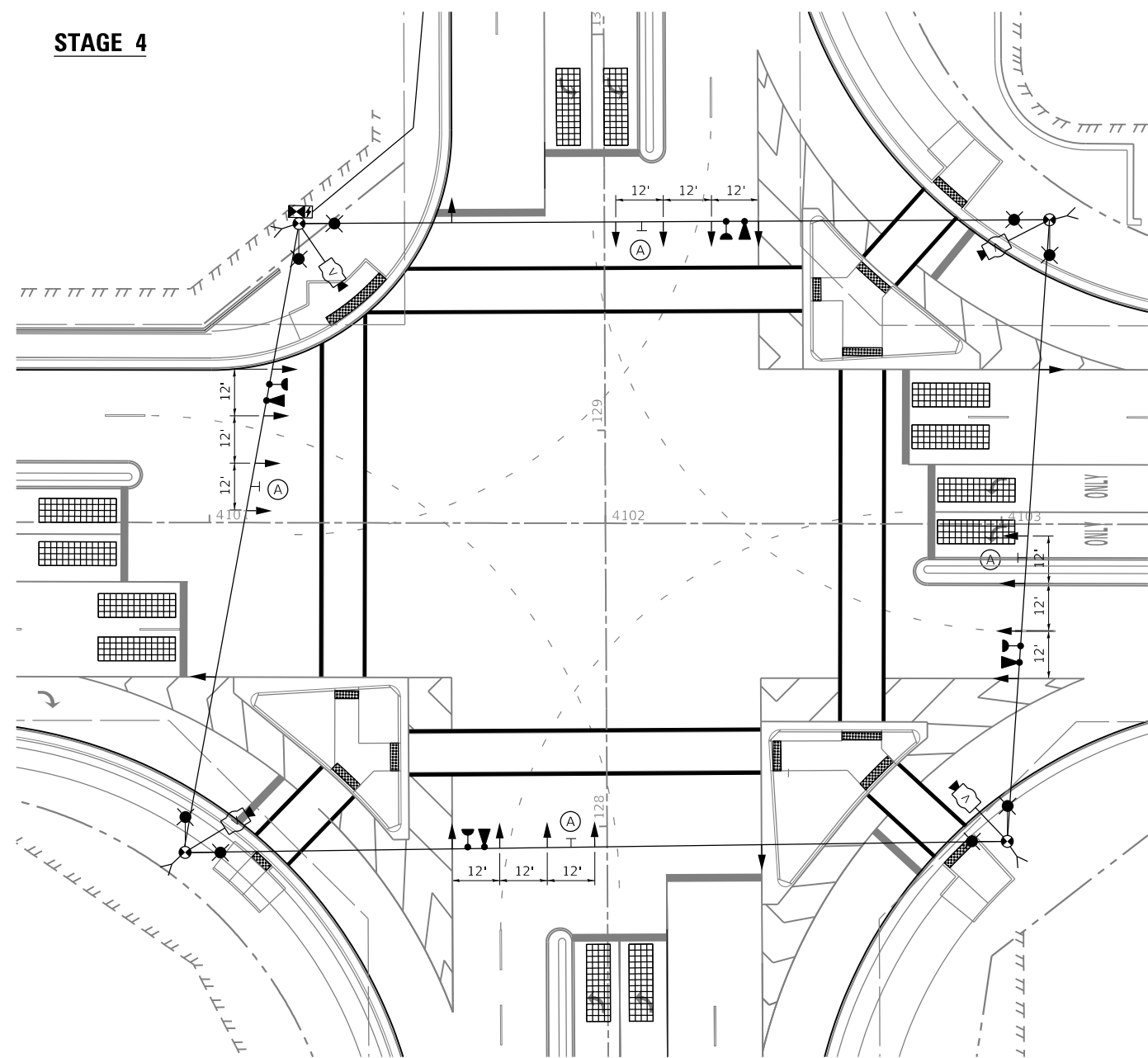
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ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 61G73

STAGE 3



STAGE 4



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

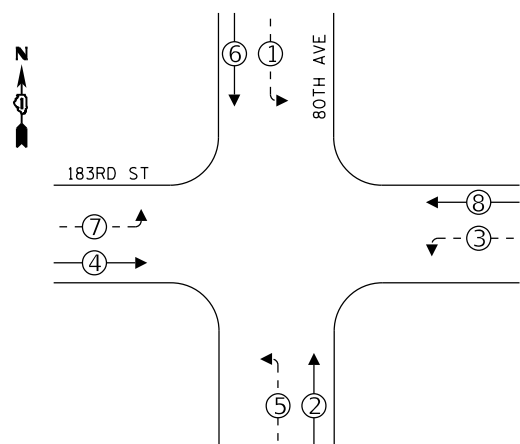
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EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN (SHEET 4 OF 4)
183RD STREET AND 80TH AVENUE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	627
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				

TEMPORARY CONTROLLER SEQUENCE

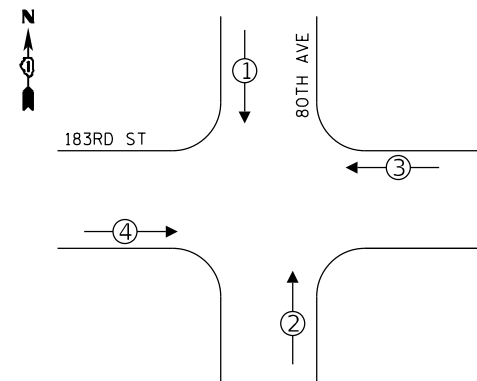
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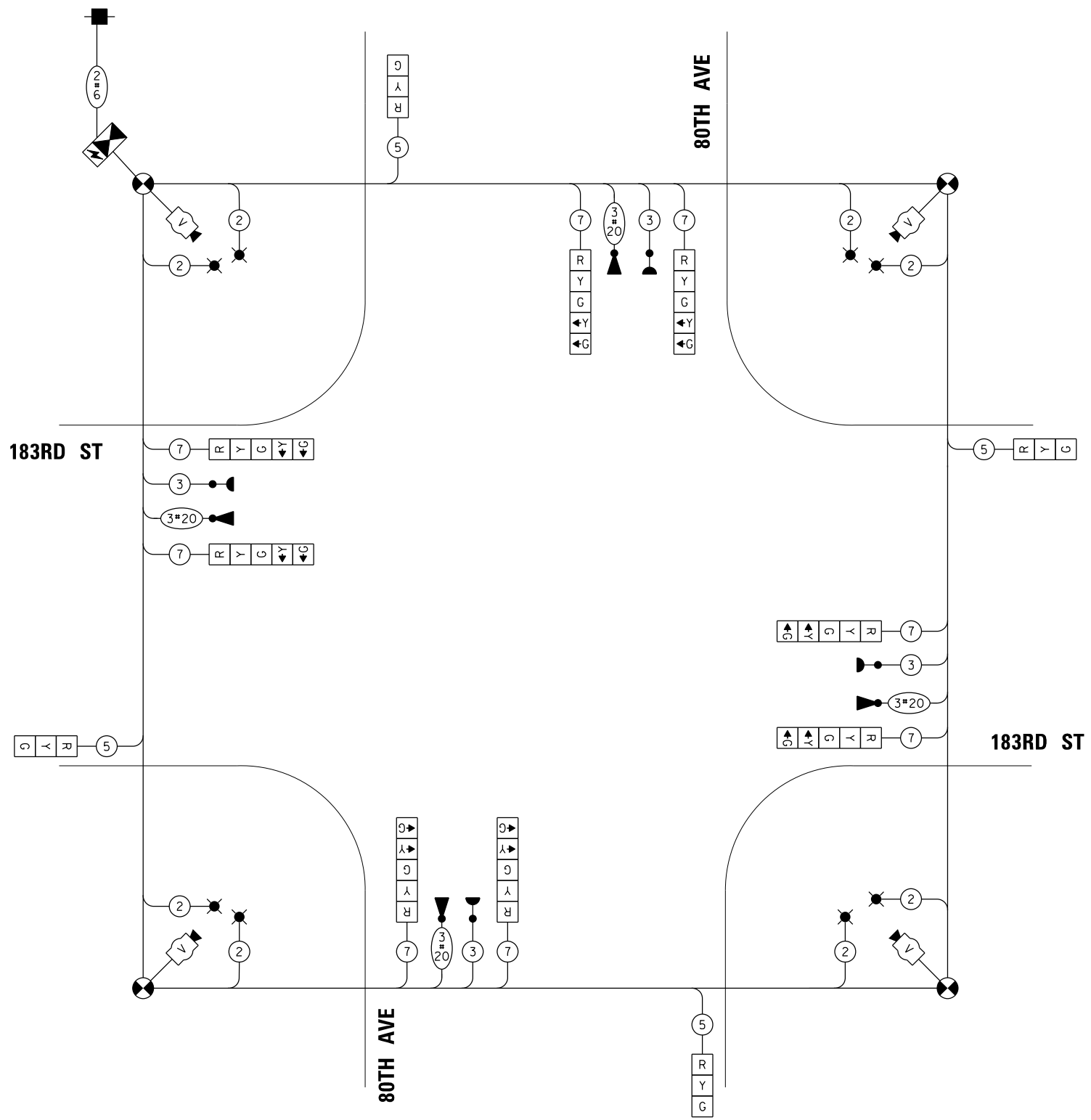
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- ← (⊙) ← PROTECTED/PERMITTED PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



SCHEDULE OF TEMPORARY TRAFFIC EQUIPMENT

ITEM	UNIT	QUANTITY
TEMPORARY WOOD POLE	EACH	4
TEMPORARY TRAFFIC SIGNAL CONTROLLER	EACH	1
TEMPORARY LUMINAIRE	EACH	8
SIGNAL HEAD, 1-FACE, 3 HEAD	EACH	4
SIGNAL HEAD, 1-FACE, 5 HEAD	EACH	8
VIDEO DETECTION CAMERA	EACH	4
EVP SYSTEM	EACH	1
ELECTRIC SERVICE CONNECTION	EACH	1
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	760
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	750
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	1497
AERIAL CABLE, 2-1/C NO. 10	FOOT	780
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, AERIAL SUSPENDED, NO. 20 3/C	FOOT	760
ELECTRIC CABLE AERIAL SUSPENDED, VIDEO, NO. 20 4 C	FOOT	780

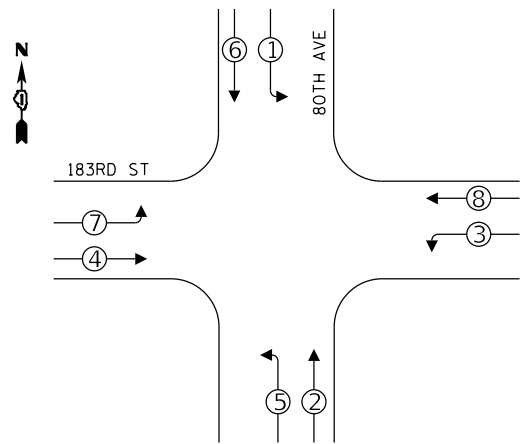


CABLE PLAN
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TEMPORARY CONTROLLER SEQUENCE

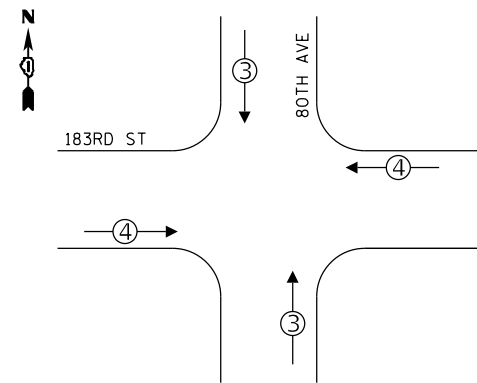
STAGE 1A, 1B 2A, 2B, 3, 4



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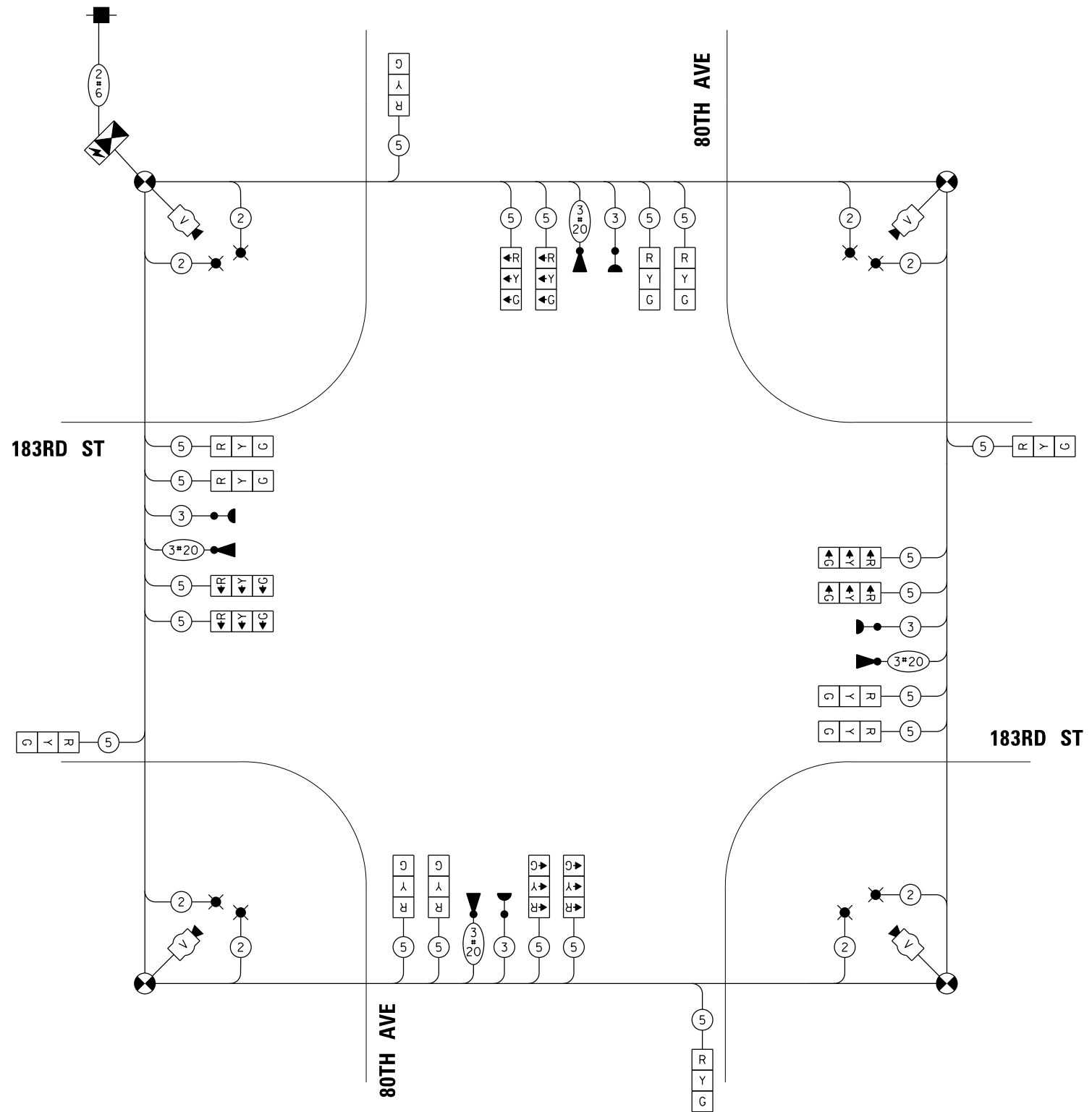
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- * — NUMBER REFERS TO ASSOCIATED PHASE

**PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE**



SCHEDULE OF TEMPORARY TRAFFIC EQUIPMENT

ITEM	UNIT	QUANTITY
TEMPORARY WOOD POLE	EACH	4
TEMPORARY TRAFFIC SIGNAL CONTROLLER	EACH	1
TEMPORARY LUMINAIRE	EACH	8
SIGNAL HEAD, 1-FACE, 3 HEAD	EACH	20
VIDEO DETECTION CAMERA	EACH	4
EVP SYSTEM	EACH	1
ELECTRIC SERVICE CONNECTION	EACH	1
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	847
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	3814
AERIAL CABLE, 2-1/C NO. 10	FOOT	780
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, AERIAL SUSPENDED, NO. 20 3/C	FOOT	847
ELECTRIC CABLE AERIAL SUSPENDED, VIDEO, NO. 20 4 C	FOOT	780



CABLE PLAN
(NOT TO SCALE)

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
 AND TEMPORARY EMERGENCY PREEMPTION SEQUENCE
 183RD STREET AND 80TH AVENUE – STAGES 1A, 1B, 2A, 2B, 3, & 4**

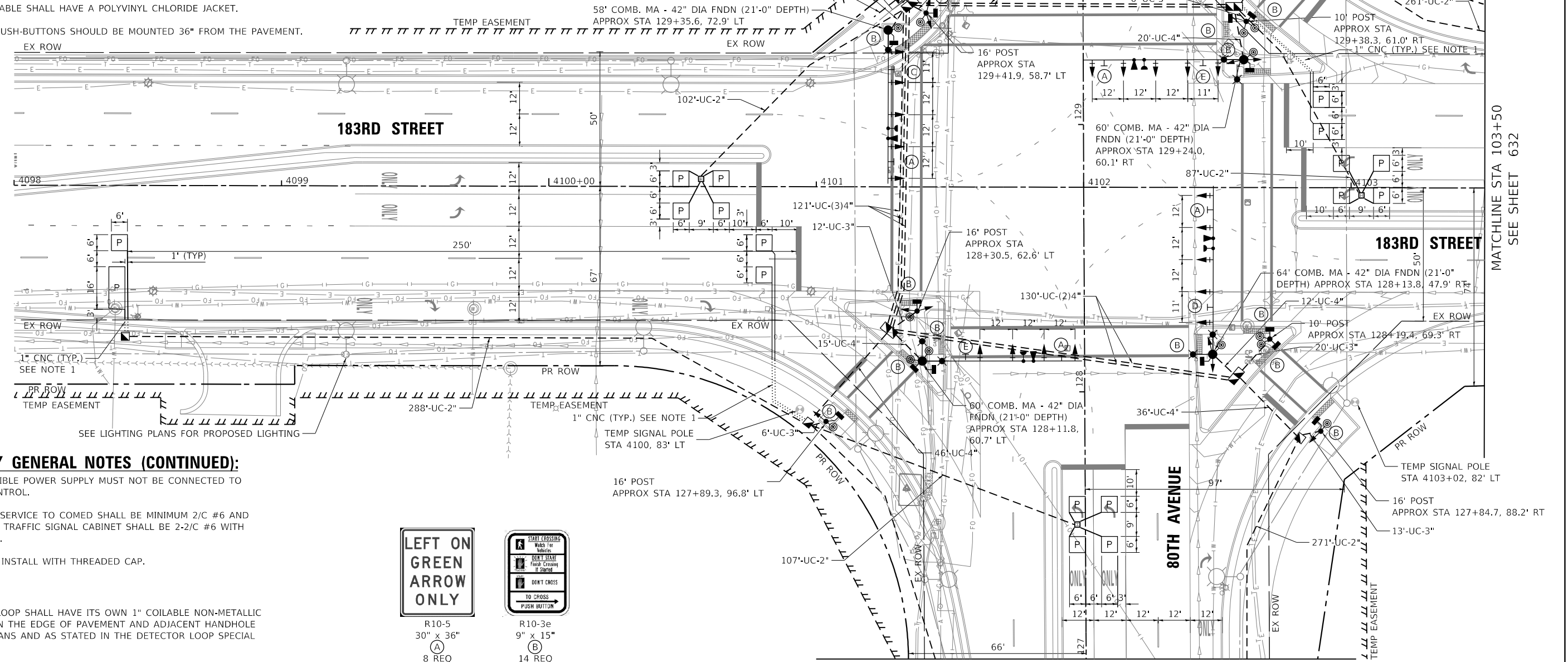
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2755	06-00122-16-FP	WILL	1113	630
CONTRACT NO.				61G73
ILLINOIS FED. AID PROJECT				

COOK COUNTY GENERAL NOTES:

1. THE CONTRACTOR SHALL INFORM THE CCHD DESIGN ENGINEER AT (312) 603-1734 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCE NOTICE IS REQUIRED.
2. THE CONTRACTOR SHALL MARK LOCATIONS OF LOOPS AND CONTACT THE COUNTY DESIGN ENGINEER AT (312) 603-1734 FOR LOCATION APPROVAL PRIOR TO THE CUTTING OF THE LOOPS. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCE NOTICE IS REQUIRED.
3. ALL MAST ARM MOUNTED SIGNAL HEADS ARE TO BE ATTACHED 2'-0" FROM THE END OF MAST ARM UNLESS OTHERWISE NOTED.
4. ALL SIGNAL POSTS SHALL BE SET BACK 4 FEET MINIMUM AND ALL MAST ARM POLES SHALL BE SET BACK 6 FEET MINIMUM FROM THEIR CENTER TO THE BACK OF CURB UNLESS OTHERWISE NOTED. IN NON-CURBED AREAS THE MAST ARM POLE AND THE SIGNAL POST SHALL BE A MINIMUM OF 10 FEET BEHIND THE EDGE OF PAVEMENT OR 2 FEET BEHIND THE EDGE OF THE SHOULDER, WHICHEVER DISTANCE IS GREATER.
5. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNAL SYSTEM. FOR THE LOCATIONS OF THE UTILITIES CALL JULIE TOLL FREE AT 1-800-892-0123.
6. ALL ELECTRICAL CABLE SHALL HAVE A POLYVINYL CHLORIDE JACKET.
7. ALL PEDESTRIAN PUSH-BUTTONS SHOULD BE MOUNTED 36" FROM THE PAVEMENT.

8. THE CONTROLLER AND ALL CONTROL EQUIPMENT SHALL BE OF A MANUFACTURER THAT IS APPROVED BY THIS DEPARTMENT. THE MANUFACTURER OF ALL EQUIPMENT SHALL HAVE A REPRESENTATIVE AND SHOP LOCATED IN THE SIX (6) COUNTY CHICAGO AREA. ALL EQUIPMENT INSTALLED IN THE CONTROLLER CABINET SHALL BE FROM A SINGLE SUPPLIER. THE SUPPLIER SHALL BE RESPONSIBLE FOR SERVICE AND SUPPORT FOR THIS EQUIPMENT.
9. FOR THE LIGHTING CONTROL SERVICE, THE CONTRACTOR SHALL PROVIDE ONE (1) POLE 40 AMP DISCONNECT BREAKER, NECESSARY HARDWARE AND MATERIAL. THE MATERIAL AND LABOR REQUIRED FOR THIS WORK AS DESCRIBED HERE AND AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE PAY ITEM "ELECTRIC SERVICE INSTALLATION, SPECIAL." NO EXTRA COMPENSATION WILL BE ALLOWED.
10. FOR LIGHTING CONTROL, THE CONTRACTOR SHALL PROVIDE ONE MAIN BREAKER, ONE ELECTRICALLY OPERATED CONTRACTOR, FOUR BRANCH BREAKERS, ONE PHOTOCCELL, NECESSARY WIRING, HARDWARE, AND MOUNTING PANEL AS REQUIRED. THIS EQUIPMENT SHALL MEET THE REQUIREMENT OF APPLICABLE PORTIONS OF IDOT STANDARD SPECIFICATION ARTICLE 1068.01. THE MATERIAL AND LABOR REQUIRED TO MAKE THE LIGHTING CONTROL OPERATIONAL AS DESCRIBED HERE AND AS DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE PAY ITEM "FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL." NO EXTRA COMPENSATION WILL BE ALLOWED.



COOK COUNTY GENERAL NOTES (CONTINUED):

9. THE UNINTERRUPTIBLE POWER SUPPLY MUST NOT BE CONNECTED TO THE LIGHTING CONTROL.
10. THE CABLE FROM SERVICE TO COMED SHALL BE MINIMUM 2/C #6 AND FROM SERVICE TO TRAFFIC SIGNAL CABINET SHALL BE 2-2/C #6 WITH 2-1/C #6 GROUND.
11. FOR FUTURE USE. INSTALL WITH THREADED CAP.

NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND ADJACENT HANDHOLE AS SHOWN ON PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.
2. COOK COUNTY MUST REVIEW MATERIAL SUBMITTALS AND CATALOG CUTS FOR THIS TRAFFIC SIGNAL PRIOR TO SUBMITTAL TO LOCAL ROADS.
3. LUMINAIRE MAST ARMS FOR COMBINATION POLES SHALL BE ORIENTED PERPENDICULAR TO THE ROADWAY CENTERLINE. THE LENGTH OF LUMINAIRE MAST ARMS SHALL BE 15'.



R10-5
30" x 36"
8 REQ

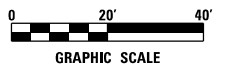


R10-3e
9" x 15"
14 REQ

FOR SIGNS C,D,E & F,
SEE STREET NAME
SIGNS ON SHEET 634

MATCHLINE STA 130+25
SEE SHEET 632

MATCHLINE STA 127+00
SEE SHEET 632



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

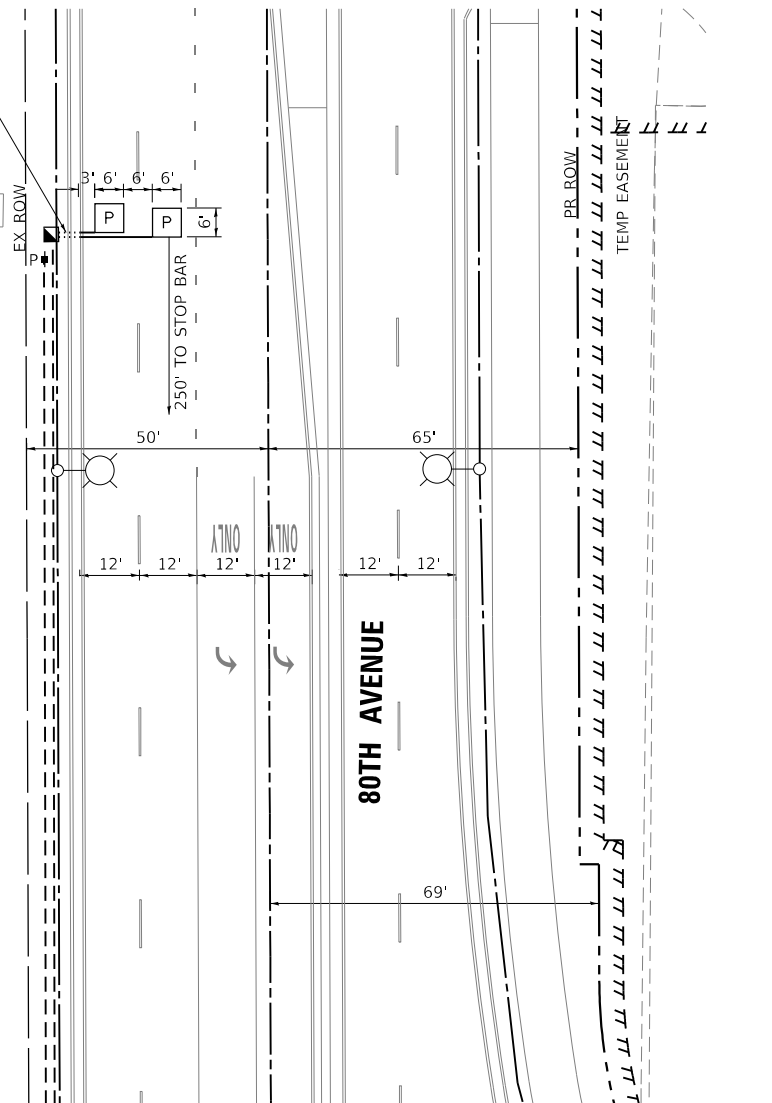
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SCALE: 1" = 20'	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 61G73			

ILLINOIS FED. AID PROJECT	
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MATCHLINE STA 127+00
SEE SHEET 631



1" CNC (TYP)
(SEE NOTE 1)



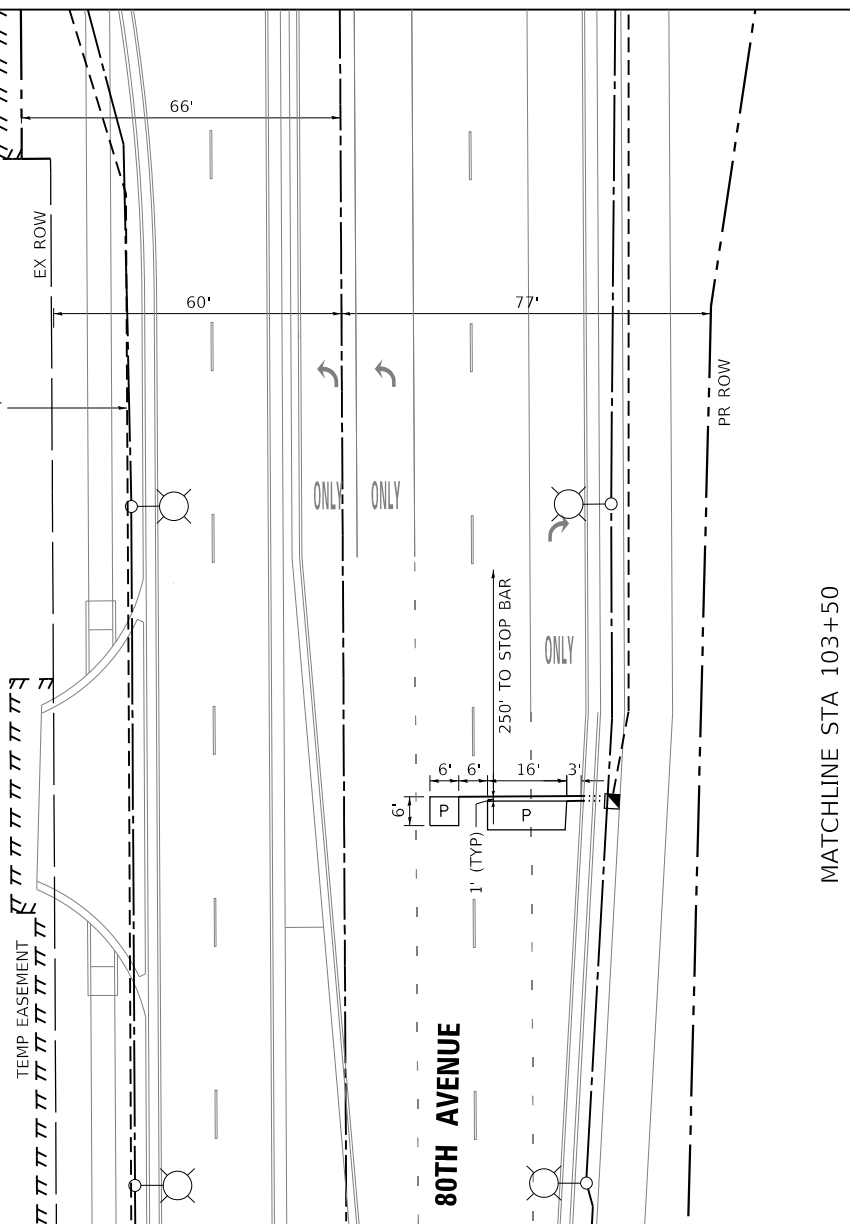
MATCHLINE STA 130+25
SEE SHEET 631

NOTE:

EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND ADJACENT HANDHOLE AS SHOWN ON PLANS AND AS STATED IN THE DETECTOR LOOP SPECIAL PROVISION.



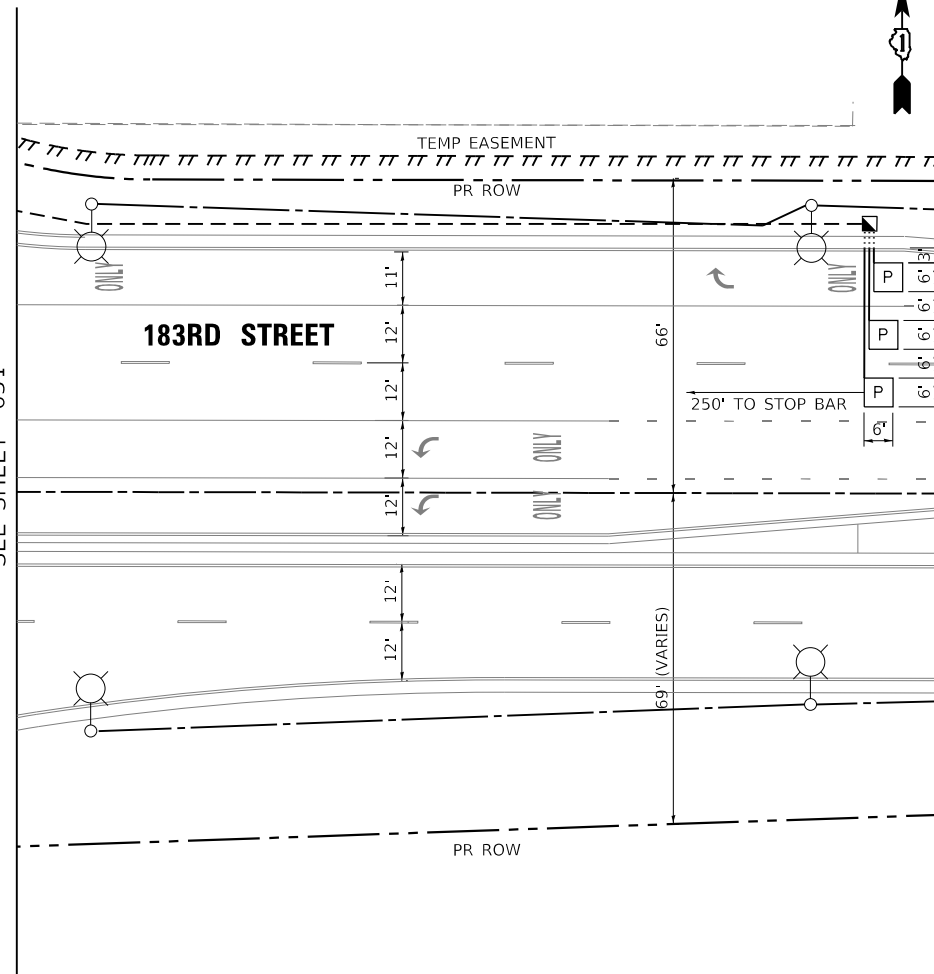
INTERCONNECT
TO 185TH ST



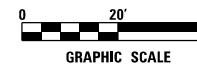
80TH AVENUE



MATCHLINE STA 103+50
SEE SHEET 631



183RD STREET



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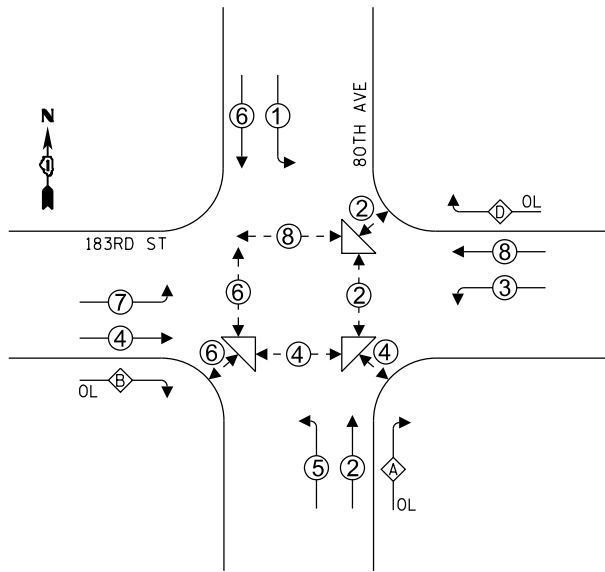
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TRAFFIC SIGNAL PLAN
183RD STREET AND 80TH AVENUE

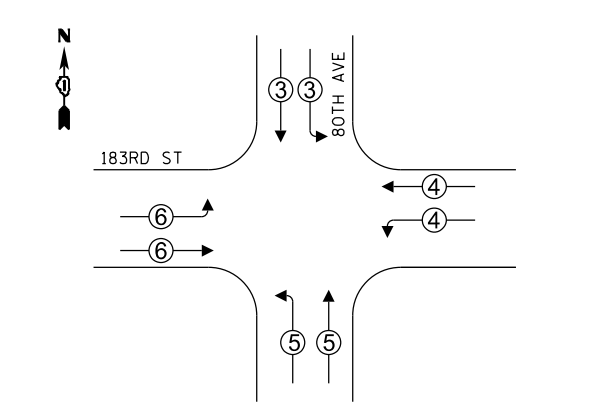
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	632
CONTRACT NO. 61G73				
ILLINOIS		FED. AID PROJECT		

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← (P) → PROTECTED PHASE
- ← (P) - PROTECTED/PERMITTED PHASE
- ← (P) → PEDESTRIAN PHASE
- ← (OL) → OVERLAP

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2 +	3
B =	4 +	5
C =	6 +	7
D =	8 +	1

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTORS	3	4	5	6
MOVEMENT	↓	←	↑	→

LOCATION: 183RD STREET AND 80TH AVENUE
COOK COUNTY
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE	%OPERATION	TOTAL WATTAGE
CONTROLLER	1	100	100	100.00
VEHICLE DET.	21	5	100	105.00
PED. SIGNAL	14	25	100	350.00
12" SIGNAL (RED)	30	17	50	255.00
(YELLOW)	18	25	5	22.50
(GREEN)	18	15	45	121.50
(ARROW)	21	12	10	25.20
LUMINAIRE (LED)	7	150	50	525.00
HEATER	1	200	30	60.00
LED SIGN OF ANY TYPE 6'	4	108	40	172.80
TOTAL =				1,737.00

ENERGY COSTS TO: COOK COUNTY BUREAU OF ADMINISTRATION
 118 N. CLARK STREET, ROOM 801
 CHICAGO, IL 60602

ENERGY COSTS SHARE: COOK COUNTY 75%

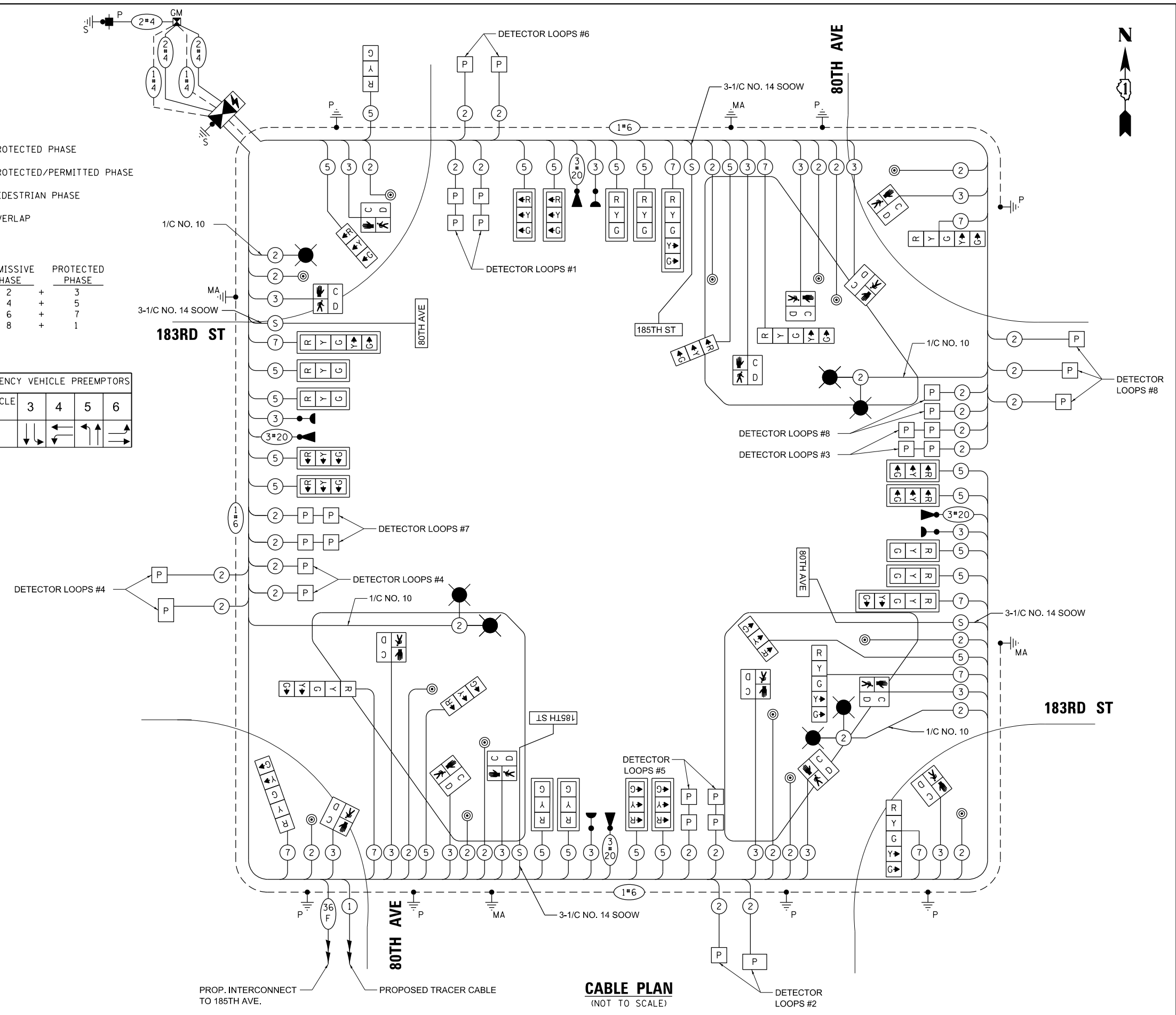
TOWER ACCOUNT NO. 2739066116
SUPPLIMENT NO. SD150226

VILLAGE OF TINLEY PARK
 16250 S OAK PARK AVENUE
 TINLEY PARK, IL 60477

TINLEY PARK 25%

ENERGY SUPPLY CONTACT:
 COMPANY: COMED
 PHONE: (866) 639-3532

EFFECTIVE DATE:
 TO BE DETERMINED



CABLE PLAN
(NOT TO SCALE)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY PREEMPTION SEQUENCE
183RD STREET AND 80TH AVENUE

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 633
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	

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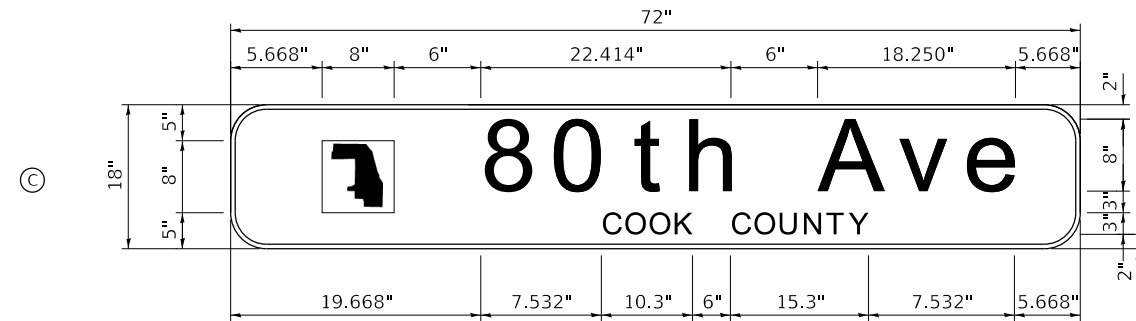
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SCHEDULE OF QUANTITIES

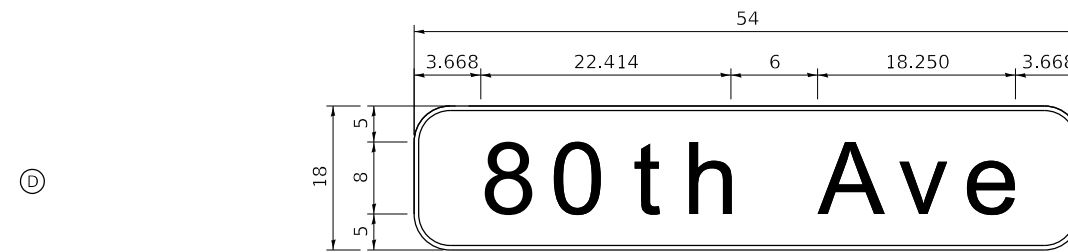
DESCRIPTION	UNIT	TOTAL
SIGN PANEL - TYPE 1	SQ FT	105
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,714
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	87
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,082
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	4
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,580
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	7
PAINT NEW TRAFFIC SIGNAL POST	EACH	7
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	2,867
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4,003
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4,083
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,244
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5,952
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 4 2 C	FOOT	1,274
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 4 1C	FOOT	317
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	810
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 58 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 60 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 64 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	84
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	19
INDUCTIVE LOOP DETECTOR	EACH	21
PREFORMED DETECTOR LOOP	FOOT	1,052
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	14
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
CELLULAR MODEM	EACH	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	821
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
GPS CLOCK SYNC UNIT	EACH	1

NOTE:
NEW TRAFFIC SIGNAL POSTS AND COMBINATION MAST ARM POLES SHALL BE PAINTED BLACK.

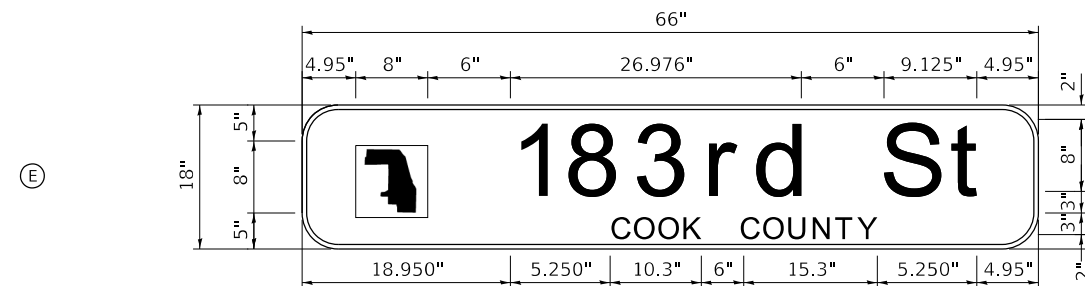
SIGN PANEL – TYPE 1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.00	1	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	8.25	1	ZZ	2

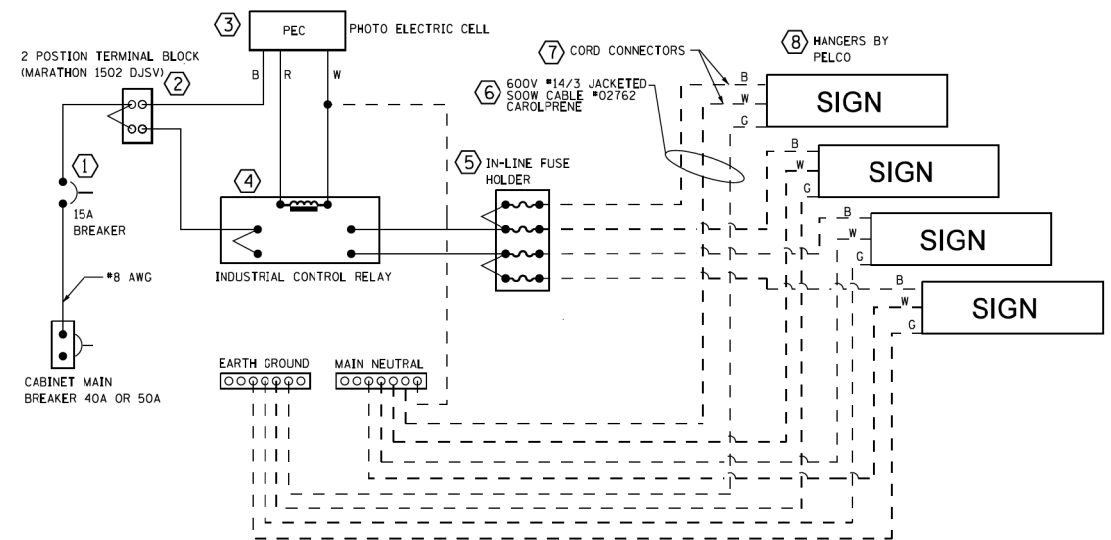
NOTE:

FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION, SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

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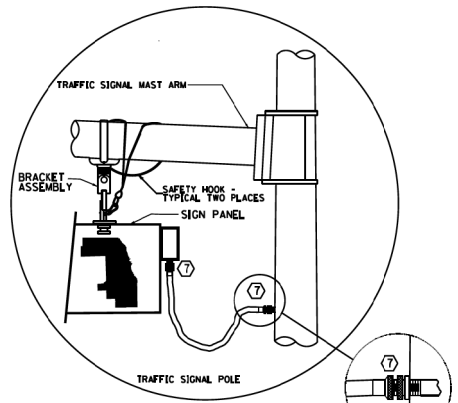
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	634
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



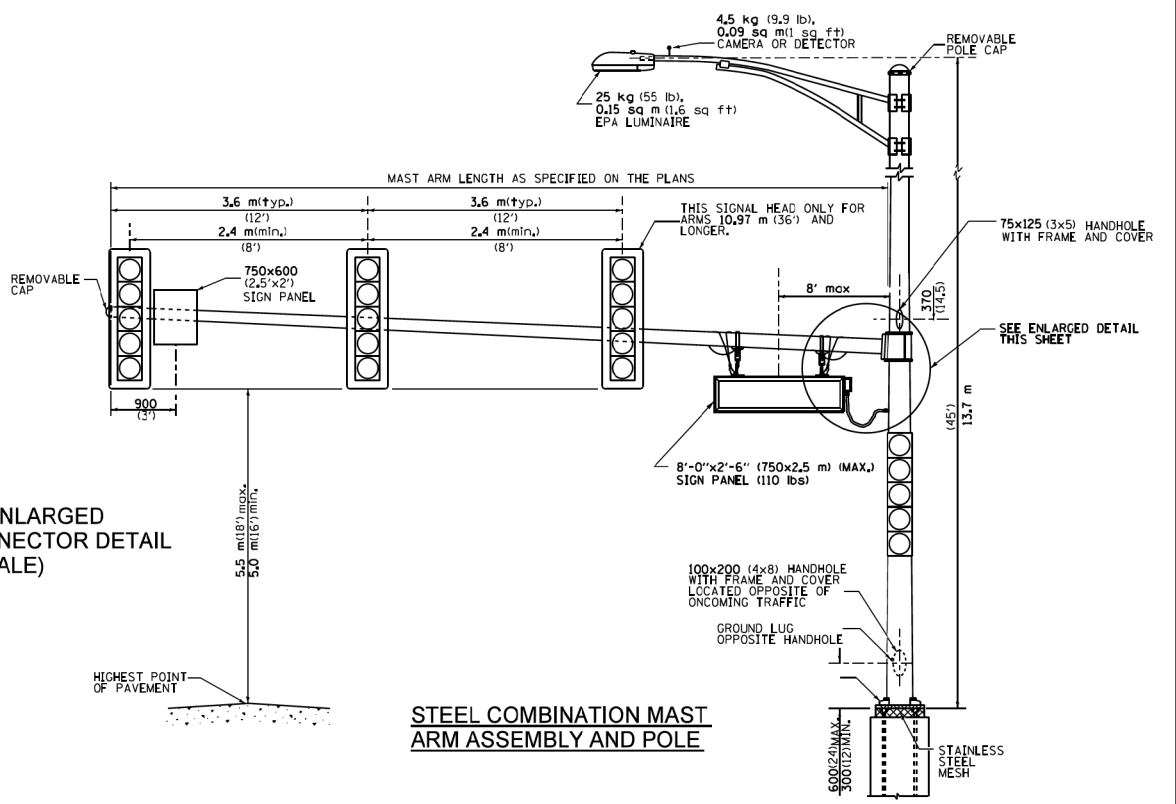
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
1. CIRCUIT BREAKER		15 AMPERE	
2. TERMINAL BLOCK	MARATHON	1502 DJSV	
3. PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
4. CONTRACTOR INDUSTRIAL CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
5. IN-LINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMANN	S-8000 BK/S-8-3-4-R	
6. ELECTRIC CABLE, No. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE /S00W	02762	
7. CORD/CABLE CONNECTOR	APPLETON	CG5050S (STEEL)	
8. SIGN MOUNTING HARDWARE	PELCO	SE-5015	

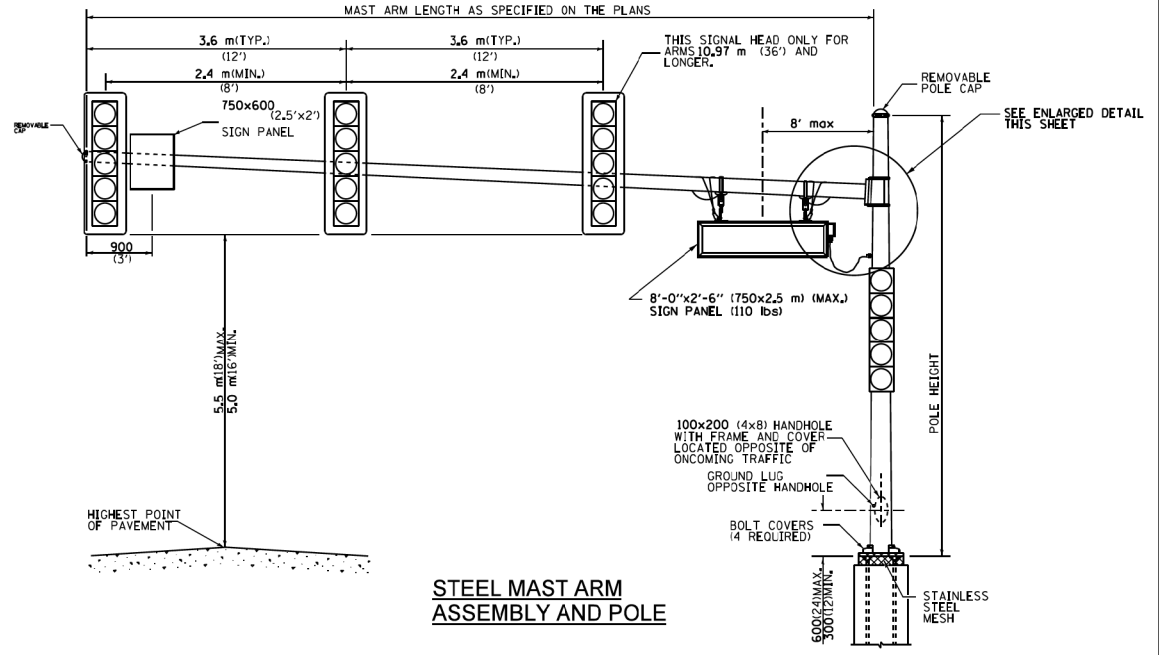


LED SIGN ENLARGED CABLE CONNECTOR DETAIL (NOT TO SCALE)

LED SIGN ENLARGED CABLE CONNECTOR DETAIL (NOT TO SCALE)



STEEL COMBINATION MAST ARM ASSEMBLY AND POLE



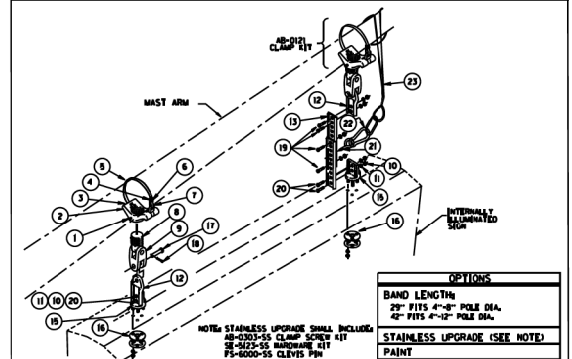
STEEL MAST ARM ASSEMBLY AND POLE

GENERAL NOTES:

- SIGNAL HEADS, SIGN PANELS, AND OTHER ATTACHMENT ARE SHOWN FOR MINIMUM DESIGN LOADING PURPOSES ONLY. EACH SIGNAL HEAD SHALL WEIGH 36 Kg (80 lb) AND HAVE A PROJECTED AREA OF 1.37 sq. m (14.7 sq. ft.).
- PHOTO ELECTRIC CELL IS TO BE MOUNTED ABOVE CABINET DOOR.
- THE SIGN SHALL BE LOCATED AT A MAXIMUM OF 8' FROM CENTER OF SIGN TO POLE.
- SIGN IS TO BE MOUNTED A MINIMUM OF 16' ABOVE PAVEMENT.
- CERTAIN ADDITIONAL INFORMATION MAY BE ALLOWED ON THE SIGN. VERIFY WITH ENGINEER.
- SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
- ALL 120 VOLT SYSTEM AND CONTROL WIRING SHALL BE #12 AWG STRANDED UNLESS OTHERWISE INDICATED.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN

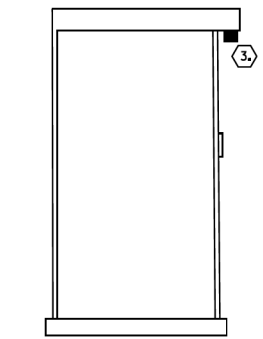
All dimensions are in millimeters (inches) unless otherwise shown.

TITLE: BRACKET, FREE-SWINGING MAST ARM SIGN W/BAND MOUNT MINI-BRAC



ITEM	PART NO.	DESCRIPTION	QTY
1	FS-3205-SS	SCREW, SET SO HD 1/4"-20 x 5/8", STAINLESS	2
2	AB-0266-MI	CLAMP, MINI-BRAC BAND MOUNT, 1 1/2" NPS, ALUM	2
3	FS-6201-ZNI	PIN, GROOVE 3/16" x 1 1/4", ZINC	2
4	AB-0244-SS	CLAMP, BAND 5/8", STAINLESS	2
5	AB-0243-L	BAND, 5/8", STAINLESS	2
6	FS-3202-SS	SCREW, SET SOC HD 5/16"-18, STAINLESS	2
7	AB-0303-GLV	KIT, CLAMP SCREW FOR MINI-BRAC, GALV	2
8	SE-0371-MI	ADAPTER, SPAN WIRE, DIE CAST ALUM W/ SS INSERT	2
9	SE-0464-M2	CLEVIS-CLEVIS, 1/2" x 1/2", ALUM W/ STAINLESS BUSHINGS	2
10	FS-1001-SS	NUT, HEX HD 5/16", STAINLESS	8
11	FS-4201-SS	WASHER, SPLIT LOCK, 5/16", STAINLESS	8
12	SE-0508-M2	EXTENDER CONNECTOR HANGER, ALUM W/ STAINLESS BUSHINGS	2
13	SE-0507-II	EXTENDER, 11"	2
14	SE-0512-MI	HANGER, TRI-STUD, ALUM	2
15	SE-5048-SS	HARDWARE KIT W/ GASKET, 5/16" - 18, STAINLESS	2
16	FS-6000-GLV	PIN, CLEVIS, 5/8" x 2 1/4" EL, GALV	4
17	FS-6100-SS	PIN, COTTER HUMPED, 5/32" x 1.775" 304 STAINLESS	4
18	FS-2006-SS	BOLT, HEX HD, 5/16" - 18 x 1", STAINLESS	4
19	FS-2019-SS	BOLT, HEX HD, 5/16" - 18 x 1 1/2", STAINLESS	4
20		EYE HOOK, STAINLESS STEEL (RATED FOR APPROPRIATE LOAD)	2
21		CARABINER HOOK, STAINLESS STEEL (RATED FOR APPROPRIATE LOAD)	2
22			
23	SH-1867-L	CABLE, SAFETY, FOR SIGN HANGERS, STAINLESS	2
	FS-9054-SL	SLEEVE, COMPRESSION, OVAL, STAINLESS	4
	FS-5101-SS	WIRE ROPE, 3/16" x 7 x 19, AIRCRAFT, TYPE 304 STAINLESS	2
	FS-6516-SS	CONNECTOR, THREADED, 3/16" x 1-1/2", STAINLESS	2
	Z-2042	INSTRUCTIONS, SAFETY CABLE FOR SIGN HANGERS	2

LED SIGN BRACKET DETAIL



CONTROLLER CABINET SIDE VIEW

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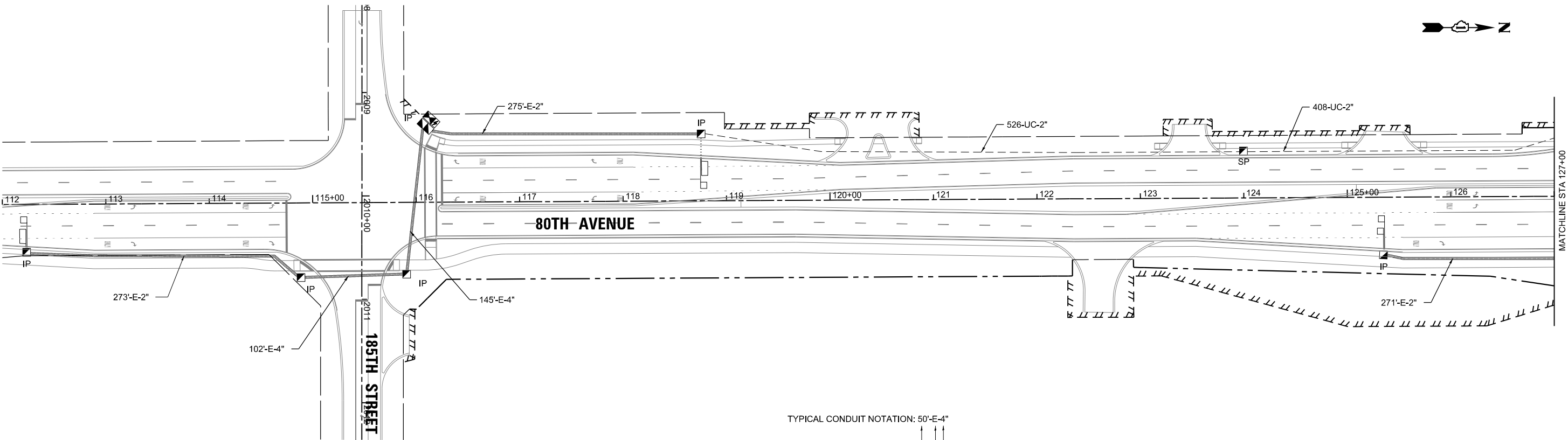
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
ILLUMINATED STREET NAME SIGN MOUNTING DETAIL
183RD STREET AND 80TH AVENUE

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	635
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				

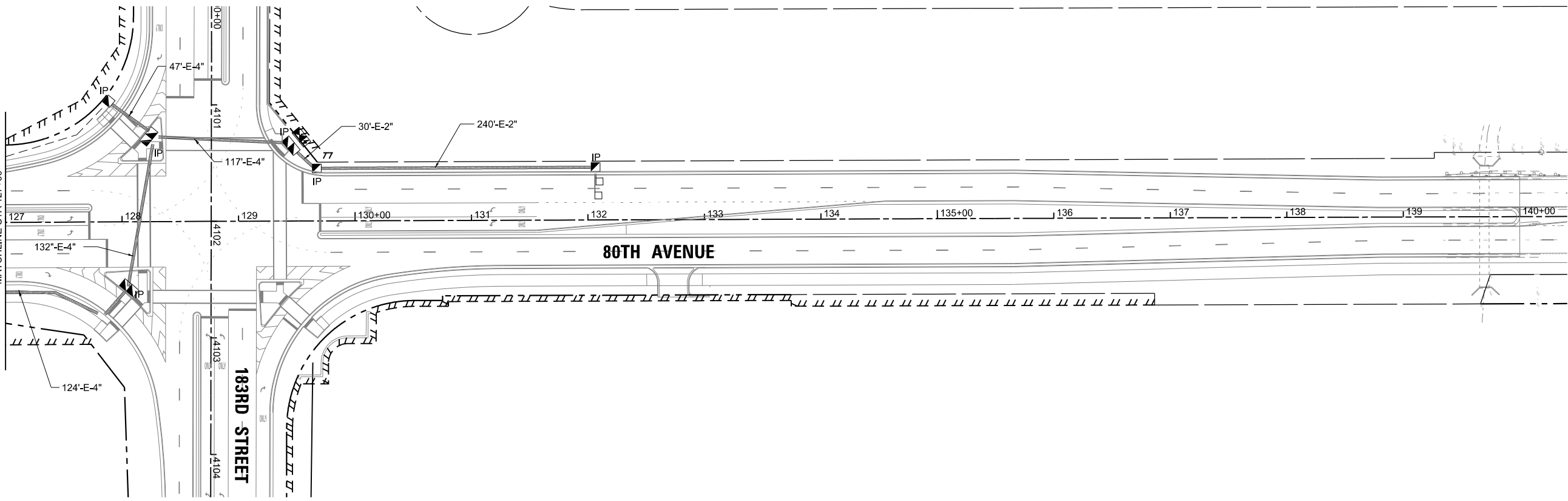


TYPICAL CONDUIT NOTATION: 50'-E-4"

LENGTH (FT) ↑

E=EXISTING (FROM TRAFFIC SIGNALS), UC = UNDERGROUND CONDUIT ↑

DIAMETER (IN) ↑



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
INTERCONNECT PLAN
80TH AVENUE FROM 185TH STREET TO 183RD STREET

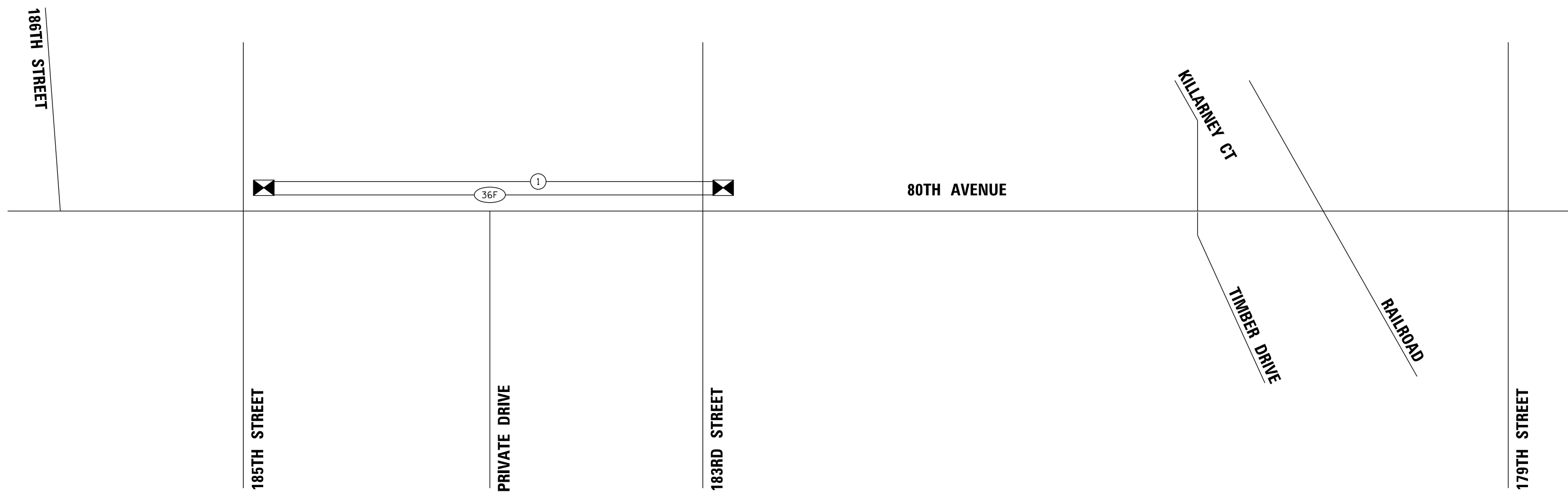
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	636
CONTRACT NO.				61G73
ILLINOIS FED. AID PROJECT				



SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	934
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1,451
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1,487
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1



NOTES:

1. FIBER OPTIC CABLE TO BE INSTALLED BETWEEN SIGNAL CABINETS FOR FUTURE USE.
2. SIGNAL COORDINATION TO BE ACHIEVED USING SIGNAL CONTROLLER TIMING AND GPS TIME SYNC DEVICE.
3. REMOTE SIGNAL ACCESS AVAILABLE VIA CELLULAR MODEM.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
INTERCONNECT SCHEMATIC
80TH AVENUE FROM 185TH STREET TO 183RD STREET

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	637
			CONTRACT NO. 61G73	
		ILLINOIS FED. AID PROJECT		

ROADWAY LIGHTING NOTES

1. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO ARTICLE 801.09 OF THE STANDARD SPECIFICATIONS REGARDING THE PROPOSED LOCATIONS OF THE LIGHTING SYSTEM AND EMPTY DUCT. ADDITIONALLY, THE DUCT ROUTING SHOWN ON THE PLANS IS MAINLY INTENDED TO SHOW ELECTRICAL CIRCUITRY.
2. THE CONTRACTOR SHALL KEEP DEVIATIONS FROM THE UNIT DUCT ROUTING SHOWN ON THE PLANS TO A MINIMUM. MAJOR DEVIATIONS SHALL BE REPORTED TO AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
3. REMOVAL OF THE EXISTING LIGHTING SYSTEM SHALL NOT BEGIN BEFORE THE TEMPORARY OR PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
4. THE ENGINEER SHALL APPROVE THE LOCATION OF ALL PUSH PITS.
5. UNDERGROUND SPLICES ARE NOT ALLOWED.
6. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE CONCRETE FOUNDATIONS HAVE CURED.
7. ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED AND LABELED.
8. ALL NEW UNIT DUCTS AND CONDUITS SHALL BE PLACED A MINIMUM OF 30" BENEATH FINISHED GRADE UNLESS NOTED OTHERWISE.
9. LIGHT POLE FOUNDATION DEPTH SHALL BE PER IDOT DISTRICT 1 STANDARD DRAWINGS BE-301. 7' DEPTH ASSUMED FOR THIS PROJECT.
10. ALL WORK SHALL CONFORM TO THE LATEST IDOT AND IDOT DISTRICT 1 STANDARDS, SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE, AND THE NATIONAL ELECTRICAL SAFETY CODE.
11. LIGHTING CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
12. SPLICING NEW UNIT DUCT TO EXISTING POLES SHALL BE INCLUDED IN THE ITEM FOR UNIT DUCT OF THE SIZE AND TYPE SPECIFIED.
13. CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER FROM THE VILLAGE OF TINLEY PARK BEFORE ANY WORK BEGINS.
14. ALL CIRCUITS WIRES SHALL BE LABELED WITH CIRCUIT IDENTIFICATION.
15. ALL CONDUITS SHALL BE SEALED.
16. THE CONTRACTOR SHALL VERIFY THE BOLT ARRANGEMENT OF EXISTING POLES TO BE RELOCATED PRIOR TO POURING NEW FOUNDATIONS.
17. ALL TINLEY PARK LIGHTING CUTSHEETS SHALL BE REVIEWED BY TINLEY PARK.

LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN
		REMOVE EXISTING LIGHT POLE AND LUMINAIRE
		REMOVE EXISTING LIGHT POLE AND LUMINAIRE AND STORE FOR FUTURE INSTALLATION (PAID FOR AS REMOVE AND RE-ERECT EXISTING LIGHTING UNIT, AND REMOVAL OF POLE FOUNDATION) SEE NOTE 16
		REINSTALL EXISTING LIGHT POLE WITH LUMINAIRE FROM STORAGE (PAID FOR AS REMOVE AND RE-ERECT EXISTING LIGHTING UNIT) SEE NOTE 16
		REINSTALL EXISTING LIGHT POLE (40' M.H., 10' DAVIT ARM) WITH LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E (PAID FOR AS REMOVE AND RE-ERECT EXISTING LIGHTING UNIT) SEE NOTE 16
		REINSTALL EXISTING LIGHT POLE (35' M.H., 12' DAVIT ARM) WITH LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E (PAID FOR AS REMOVE AND RE-ERECT EXISTING LIGHTING UNIT) SEE NOTE 16
		REINSTALL EXISTING LIGHT POLE (14.5' M.H.) WITH LUMINAIRE FROM STORAGE (PAID FOR AS REMOVE AND RE-ERECT EXISTING UNIT). SEE NOTE 16.
		TEMPORARY WOOD POLE, 70', CLASS 3, WITH 15' MAST ARM AND TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H, (55' MOUNTING HEIGHT)
		LIGHT POLE, ALUMINUM, 40' MOUNTING HEIGHT, 8' DAVIT ARM WITH LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E AND LUMINAIRE, LED, SPECIAL
		LIGHT POLE, ALUMINUM, 40' MOUNTING HEIGHT, 12' DAVIT ARM WITH LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E AND LUMINAIRE, LED, SPECIAL
		LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G MOUNTED ON COMBINATION POLE
		LIGHT POLE, ALUMINUM, 35' MOUNTING HEIGHT, 12' MAST ARM WITH LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E
		LIGHT POLE, ALUMINUM, 30' MOUNTING HEIGHT, 6' MAST ARM WITH LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E
		LIGHTING CONTROLLER
		HANDHOLE
		HANDHOLE (SPECIAL) - FOR FUTURE VILLAGE OF TINLEY PARK FIBER OPTIC CABLE
		JUNCTION BOX, STAINLESS STEEL, SIZED AND TYPE AS NOTED
		TEMPORARY WOOD POLE, SIZE AS NOTED
		AERIAL CABLE WITH MESSENGER WIRE
		UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE UNLESS NOTED OTHERWISE
		UNIT DUCT, 600V, 3-1C NO.2 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE UNLESS NOTED OTHERWISE
		CONDUIT AS NOTED WITH ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C AND PULL ROPE AS NOTED FOR FUTURE VILLAGE OF TINLEY PARK FIBER OPTIC.
		UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. - SLEEVE UNDER PAVEMENT OR DRIVEWAY

TINLEY PARK LIGHTING DETAILS:

- ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT (BE-220)
- COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC (BE-240)
- LIGHT POLE FOUNDATION 40' to 41 1/2' M.H. 15" BOLT CIRCLE (BE-301)
- LIGHT POLE FOUNDATION OFFSET 40' to 41 1/2' M.H. 15" BOLT CIRCLE (BE-310)
- LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL 15" BOLT CIRCLE (BE-330)
- MISC. ELECTRICAL DETAILS SHEET A (BE-702)
- TEMPORARY LIGHT POLE DETAILS (BE-800)
- TEMPORARY AERIAL CABLE INSTALLATION (BE-801)
- 80TH AVE BRIDGE LIGHTING DETAILS
- HANDHOLE (SPECIAL)
- LIGHT POLE, ALUMINUM, 40 FOOT MOUNTING HEIGHT WITH DAVIT ARM

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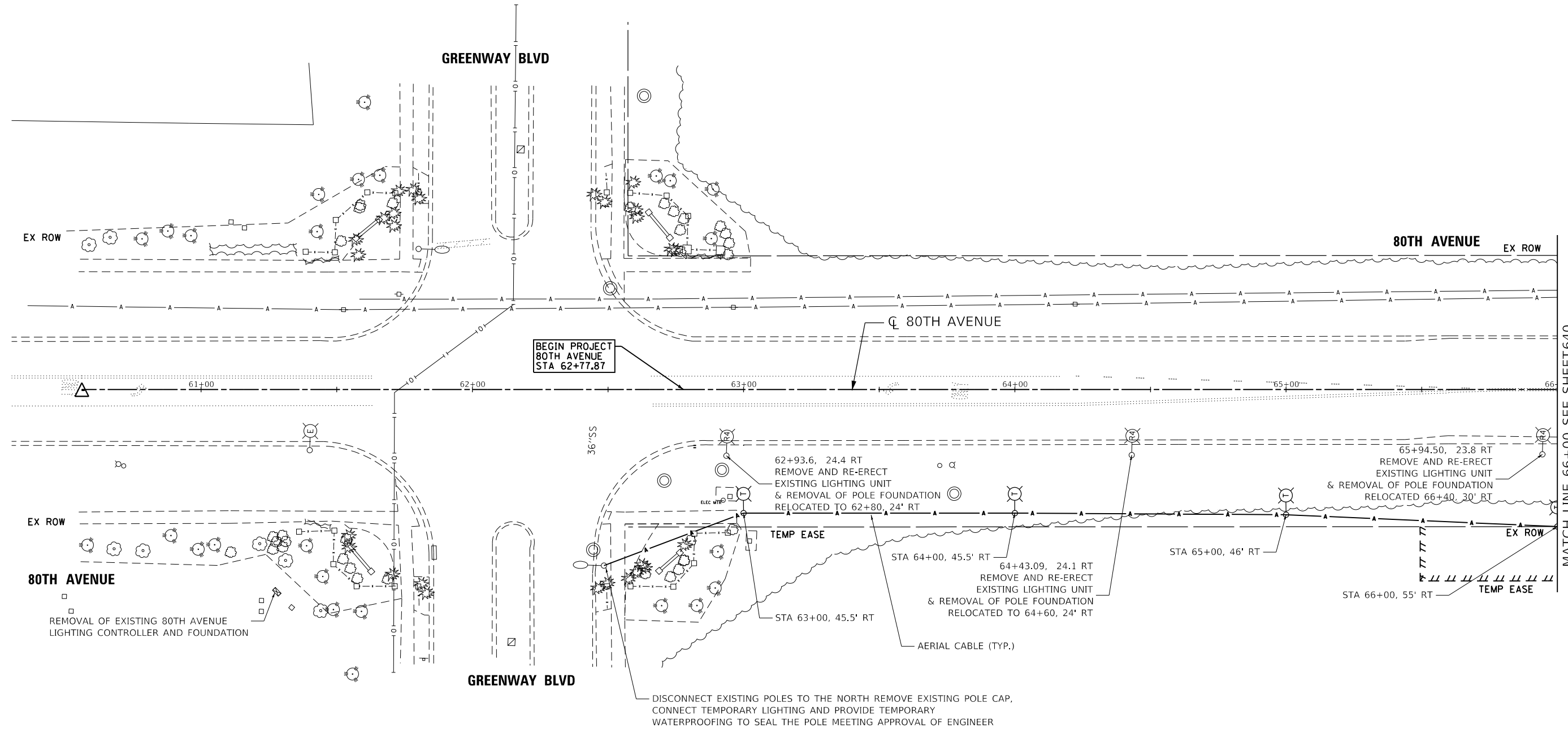
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK LIGHTING NOTES AND LEGEND

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	638
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



MATCH LINE 66+00 SEE SHEET 640

NOTE:
THE VILLAGE OF TINLEY PARK SHALL BE GIVEN ALL OLD LED EQUIPMENT NO TO BE RE-USED.

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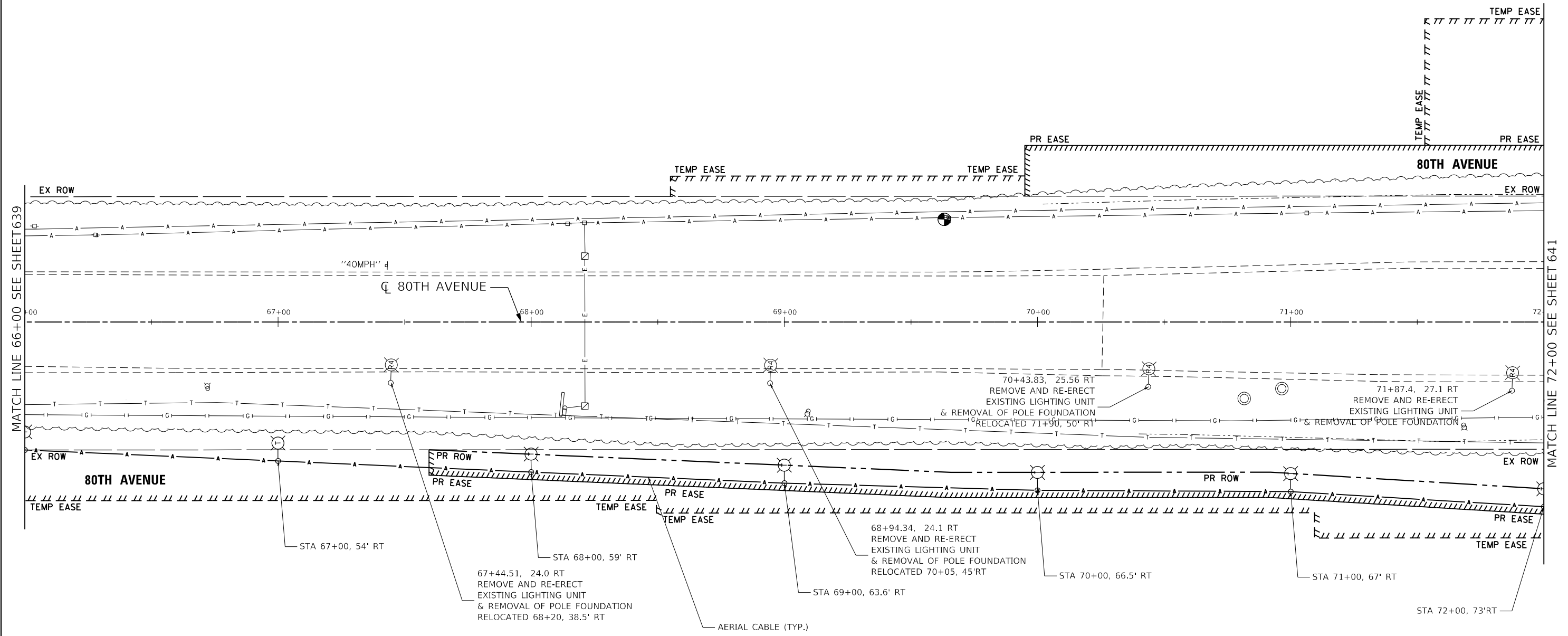
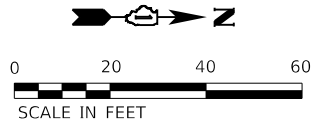
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
80TH AVENUE**

SCALE: 1" = 20' SHEET 639 OF 1113 SHEETS STA. 82+00 TO STA. 88+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	639
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



NOTE:
THE VILLAGE OF TINLEY PARK SHALL BE GIVEN ALL OLD LED EQUIPMENT NO TO BE RE-USED.

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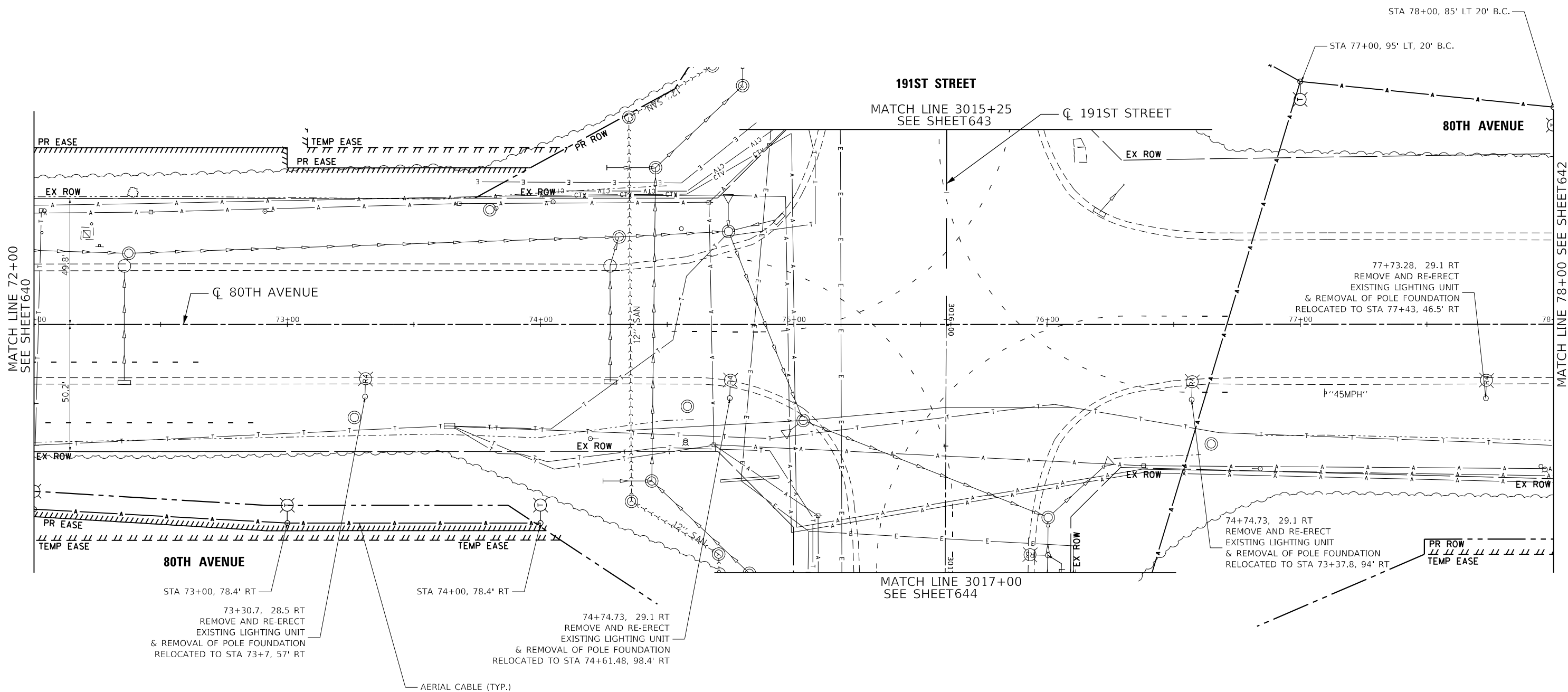
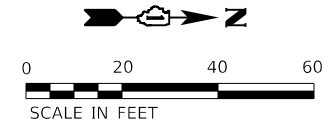
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
80TH AVENUE

SCALE: 1" = 20' SHEET 640 OF 1113 SHEETS STA. 66+00 TO STA. 72+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	640
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



NOTE:
THE VILLAGE OF TINLEY PARK SHALL BE GIVEN ALL OLD LED EQUIPMENT NO TO BE RE-USED.

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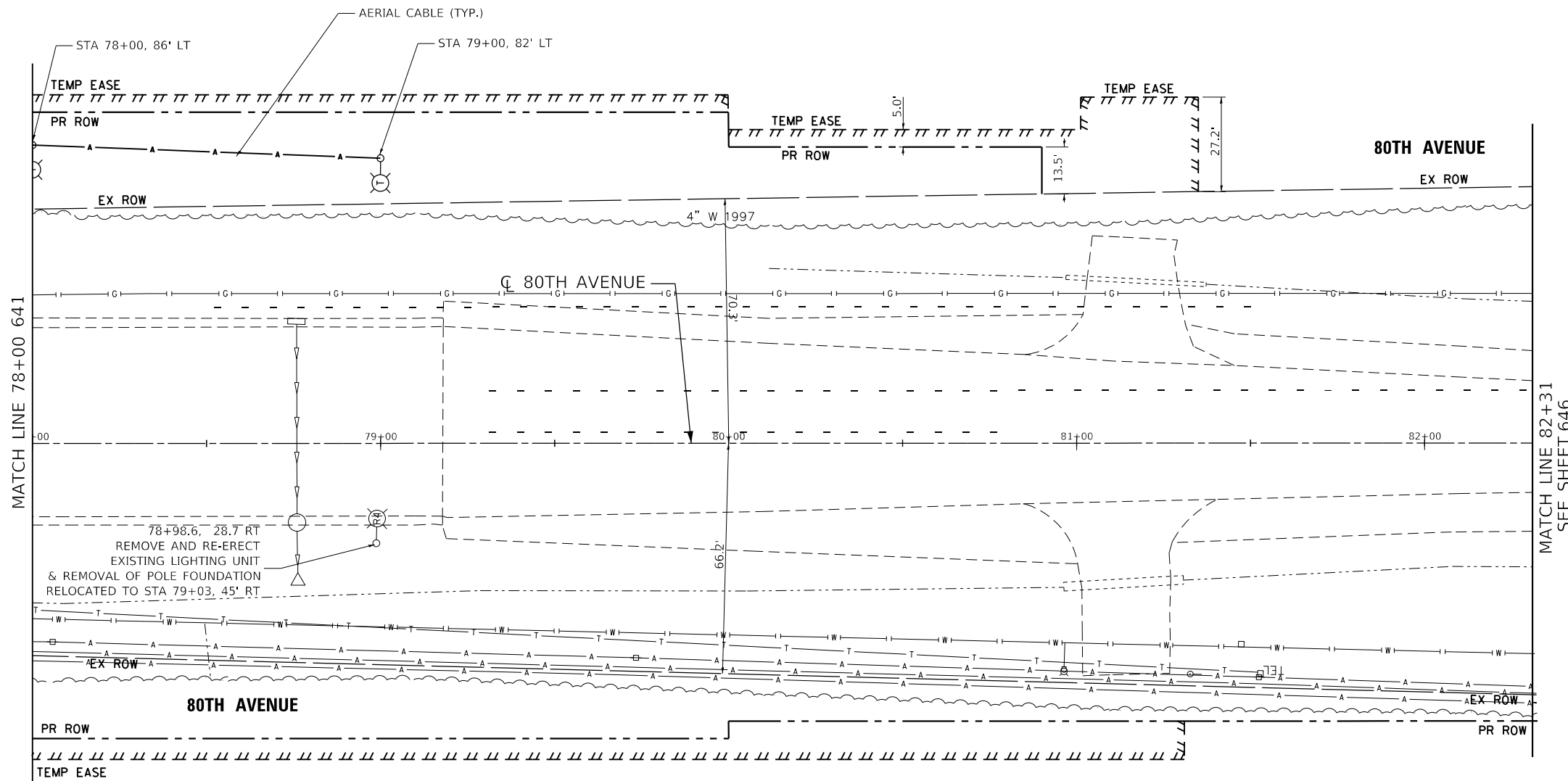
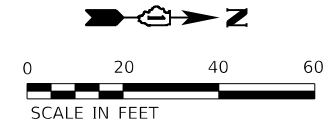
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
80TH AVENUE

SCALE: SHEET 641 OF 1113 SHEETS STA. 72+00 TO STA. 78+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	641
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



78+98.6, 28.7 RT
 REMOVE AND RE-ERECT
 EXISTING LIGHTING UNIT
 & REMOVAL OF POLE FOUNDATION
 RELOCATED TO STA. 79+03, 45' RT

NOTE:
 THE VILLAGE OF TINLEY PARK SHALL BE GIVEN ALL OLD LED EQUIPMENT NOT TO BE RE-USED.

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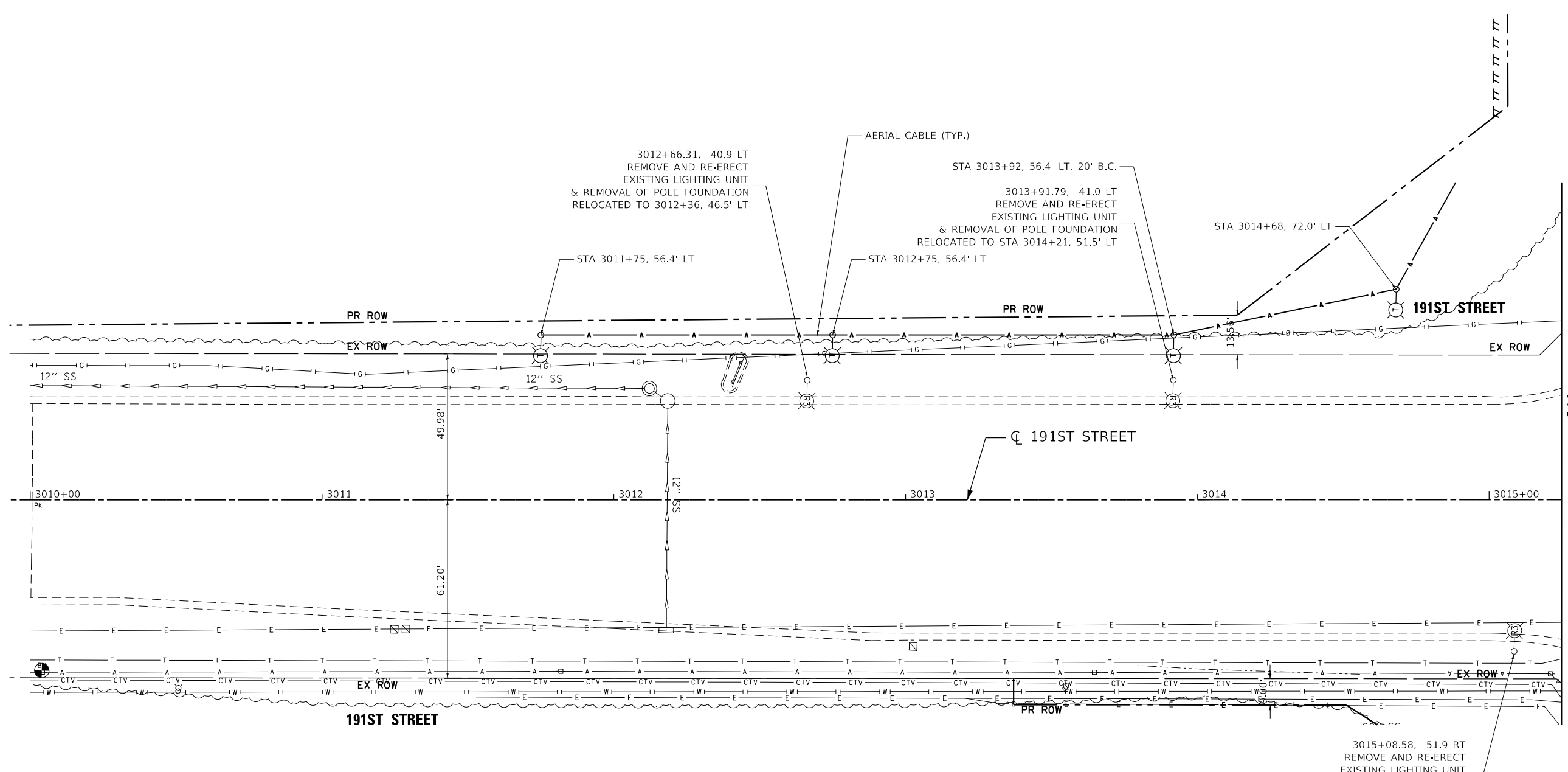
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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
80TH AVENUE

SCALE: 1" = 20' SHEET 642 OF 1113 SHEETS STA. 82+00 TO STA. 88+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	642
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



3012+66.31, 40.9 LT
REMOVE AND RE-ERECT
EXISTING LIGHTING UNIT
& REMOVAL OF POLE FOUNDATION
RELOCATED TO 3012+36, 46.5' LT

STA 3013+92, 56.4' LT, 20' B.C.
3013+91.79, 41.0 LT
REMOVE AND RE-ERECT
EXISTING LIGHTING UNIT
& REMOVAL OF POLE FOUNDATION
RELOCATED TO STA 3014+21, 51.5' LT

STA 3014+68, 72.0' LT

191ST STREET

CL 191ST STREET

191ST STREET

3015+08.58, 51.9 RT
REMOVE AND RE-ERECT
EXISTING LIGHTING UNIT
& REMOVAL OF POLE FOUNDATION
RELOCATED TO STA 3014+21, 51.5' RT

MATCH LINE 3015+25 SEE SHEET 641

NOTE:
THE VILLAGE OF TINLEY PARK SHALL BE GIVEN ALL OLD LED EQUIPMENT NOT TO BE RE-USED.

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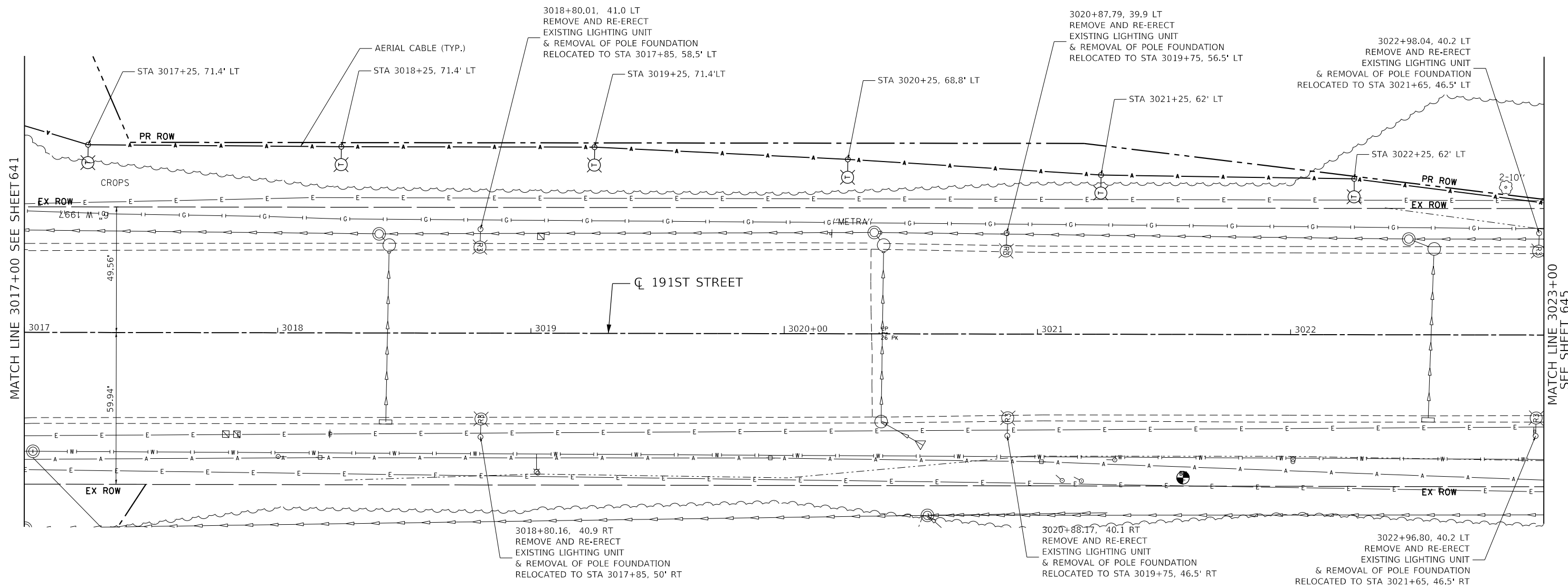


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

80TH AVENUE TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN 191ST STREET	
SCALE: 1" = 20'	SHEET 645 OF 1113 SHEETS
STA. 3011+00	TO STA. 3015+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	643
CONTRACT NO. 61G73				
		ILLINOIS	FED. AID PROJECT	



NOTE:
THE VILLAGE OF TINLEY PARK SHALL BE GIVEN ALL OLD LED EQUIPMENT NOT TO BE RE-USED.

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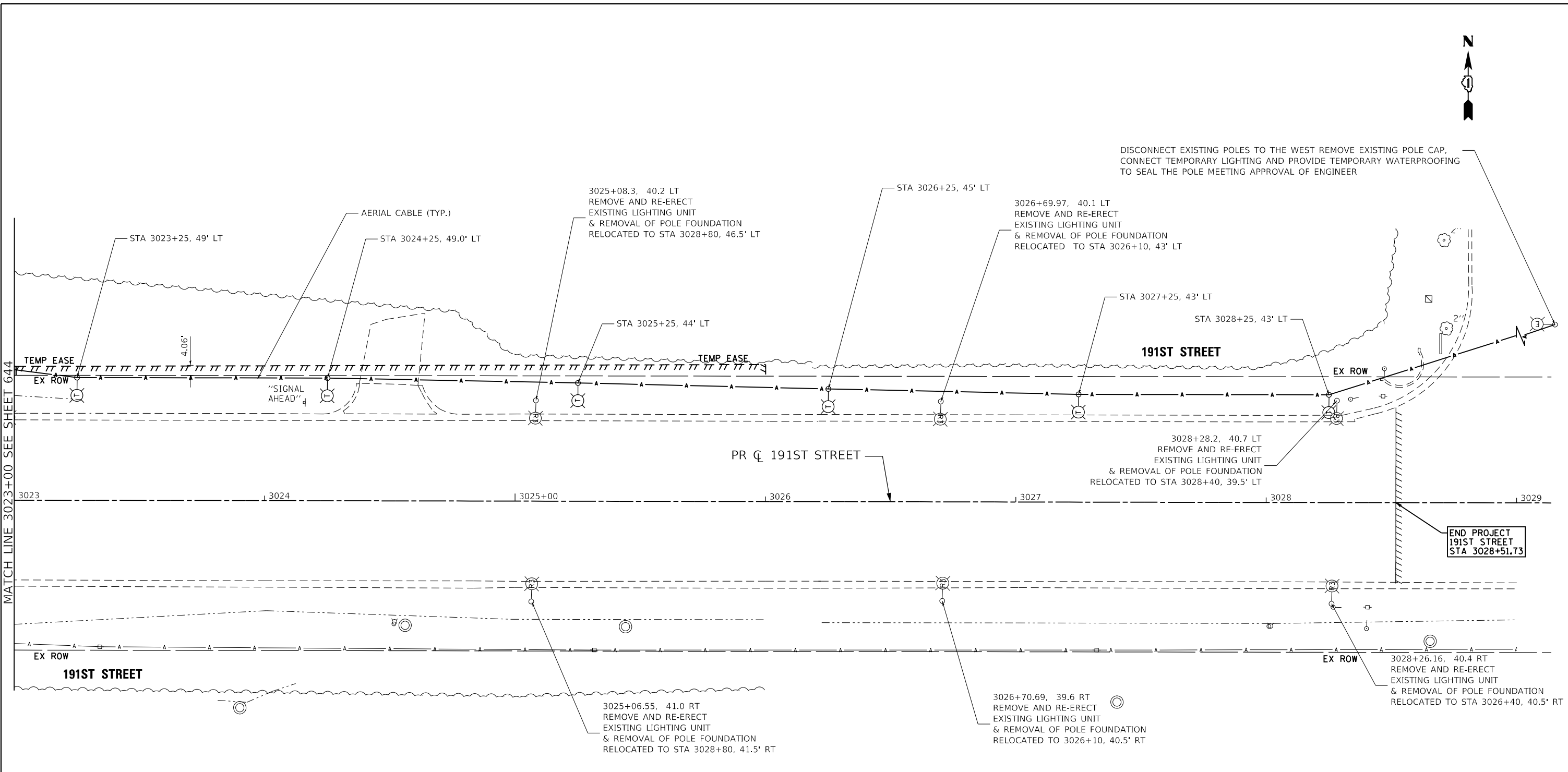


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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN 191ST STREET	
SCALE: 1" = 20'	SHEET \$RLTG08 1113 SHEETS
STA. 3017+00 TO STA. 3023+00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	644
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



MATCH LINE 3023+00 SEE SHEET 644

END PROJECT
191ST STREET
STA 3028+51.73

DISCONNECT EXISTING POLES TO THE WEST REMOVE EXISTING POLE CAP,
CONNECT TEMPORARY LIGHTING AND PROVIDE TEMPORARY WATERPROOFING
TO SEAL THE POLE MEETING APPROVAL OF ENGINEER

191ST STREET

PR CL 191ST STREET

191ST STREET

NOTE:
THE VILLAGE OF TINLEY PARK SHALL BE GIVEN ALL OLD LED EQUIPMENT NOT TO BE RE-USED.

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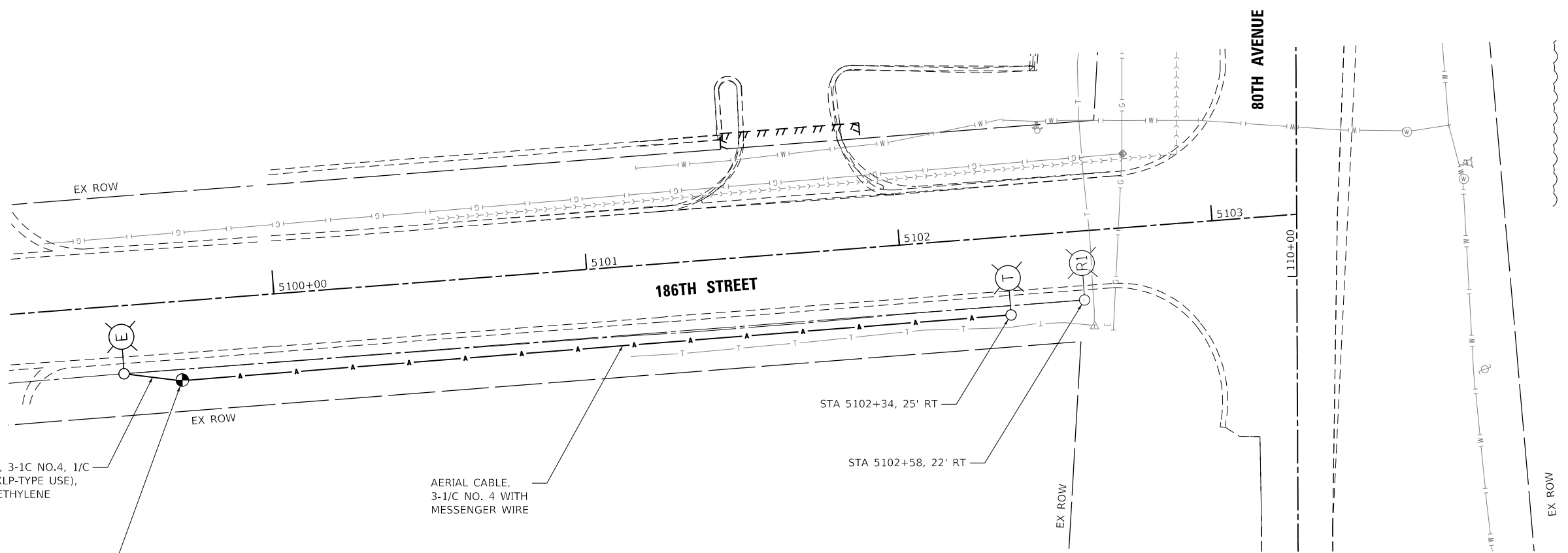


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
191ST STREET
SCALE: 1" = 20' SHEET \$RLTG00 1113 SHEETS STA. 3023+00 TO STA. 3029+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	645
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE

AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE

TEMPORARY WOOD POLE, 40 FT., CLASS 4 WITH CONDUIT RISER, GALVANIZED STEEL STA 5000+69, 25' RT

STA 5102+34, 25' RT

STA 5102+58, 22' RT

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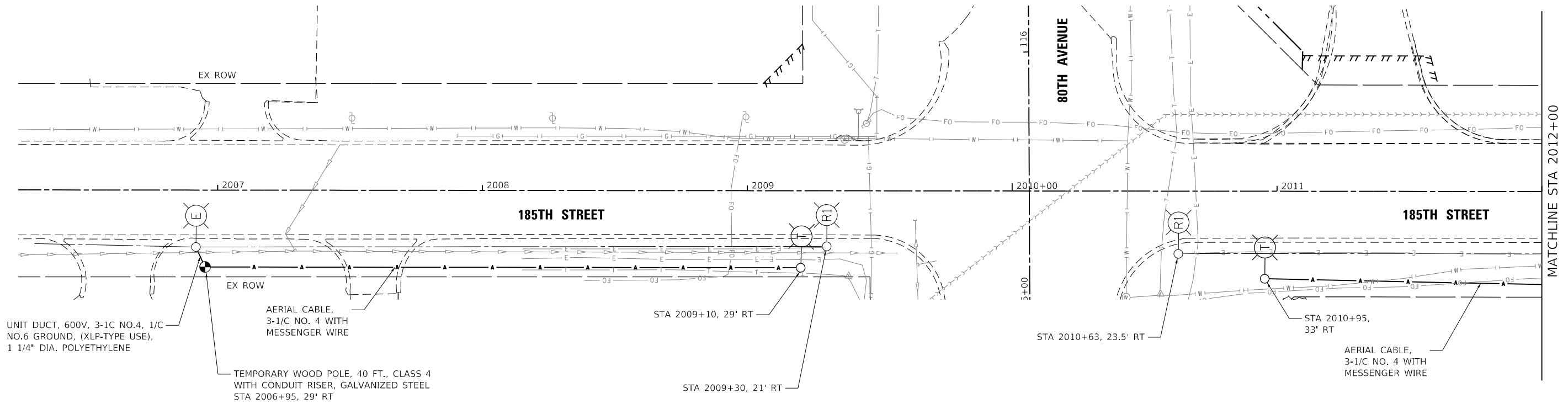
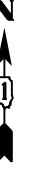
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
186TH STREET**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 5099+16 TO STA. 5103+27

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	646
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE

AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE

TEMPORARY WOOD POLE, 40 FT., CLASS 4 WITH CONDUIT RISER, GALVANIZED STEEL
STA 2006+95, 29' RT

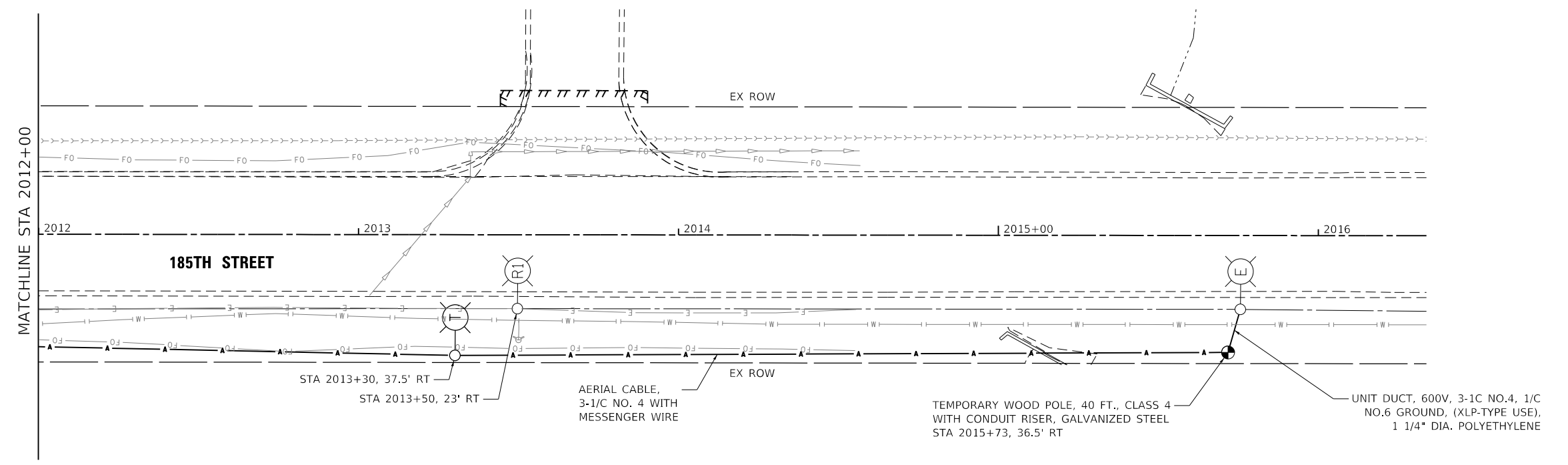
STA 2009+10, 29' RT

STA 2009+30, 21' RT

STA 2010+63, 23.5' RT

STA 2010+95, 33' RT

AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE



STA 2013+30, 37.5' RT
STA 2013+50, 23' RT

AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE

TEMPORARY WOOD POLE, 40 FT., CLASS 4 WITH CONDUIT RISER, GALVANIZED STEEL
STA 2015+73, 36.5' RT

UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE

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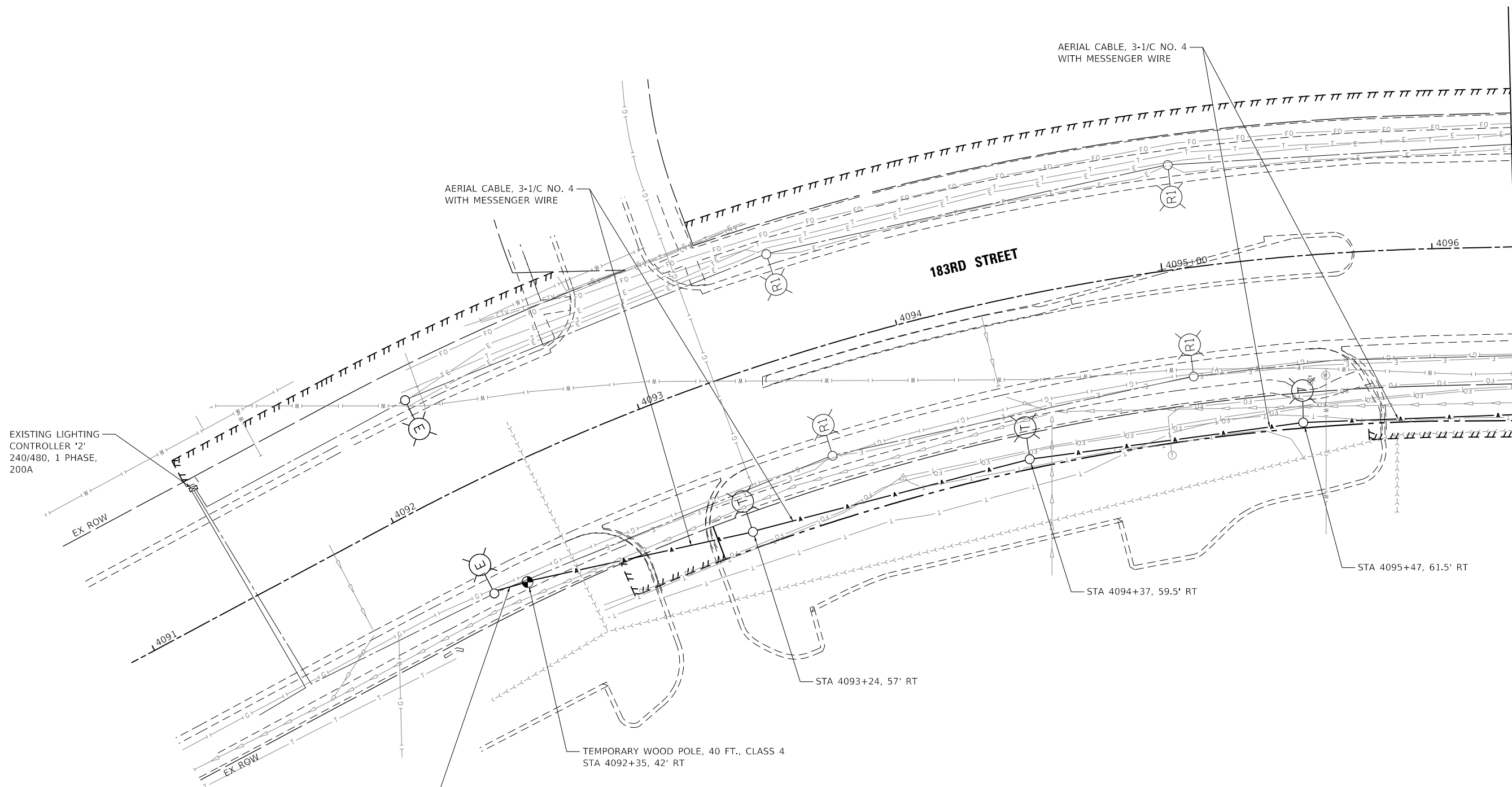


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

80TH AVENUE TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN 185TH STREET		
SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA. 2006+25 TO STA. 2016+34

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 647
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



MATCHLINE STA 4096+30
SEE SHEET 649

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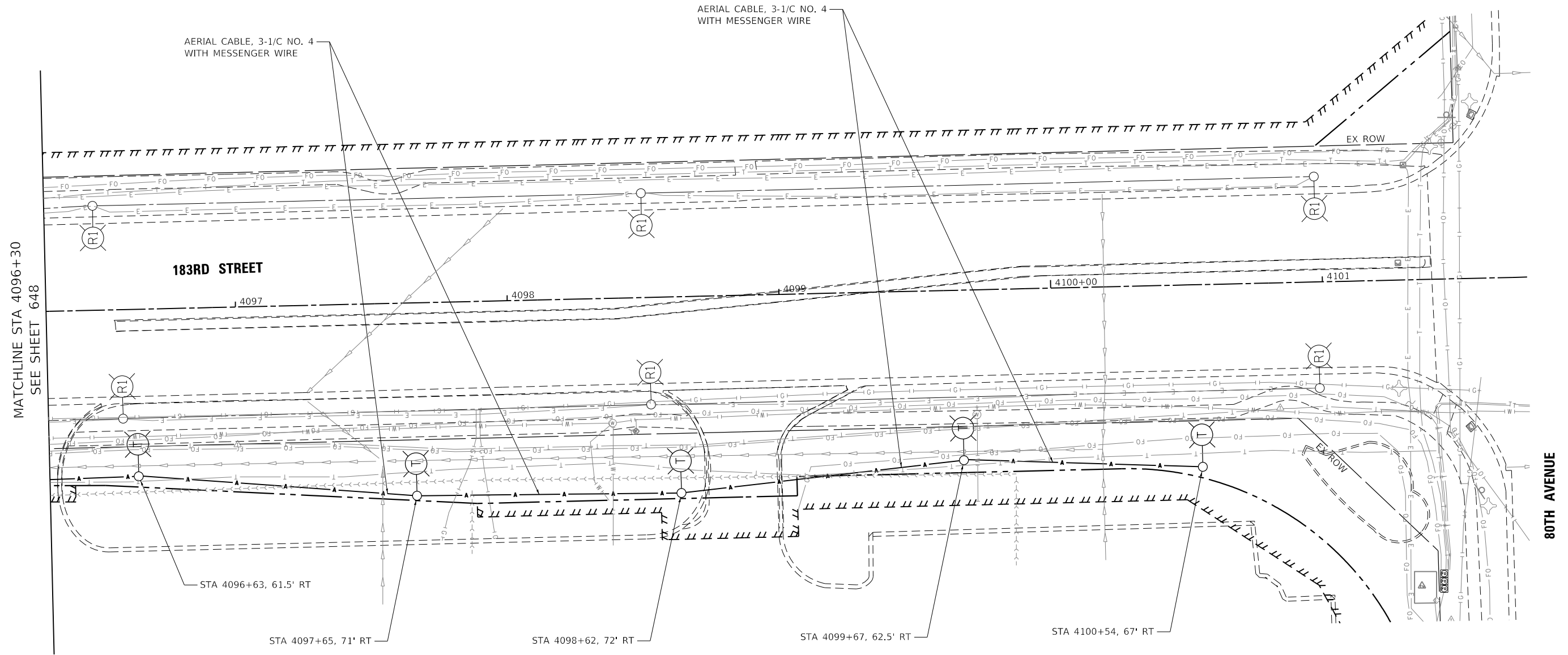
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

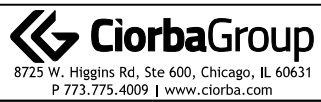
**80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
183RD STREET**

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 4092+00 TO STA. 4096+30

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	648
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
183RD STREET**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 4096+30 TO STA. 4101+75

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 649
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



MATCHLINE STA 4105+50
SEE SHEET 651

NOTES:
1. DISCONNECT EXISTING CONDUCTORS AT THIS FOUNDATION.

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	DRAWN - MJS	REVISED -
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PLOT DATE = 3/31/2021	DATE - 3/3/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
PUBLIC WORKS LIGHTING**

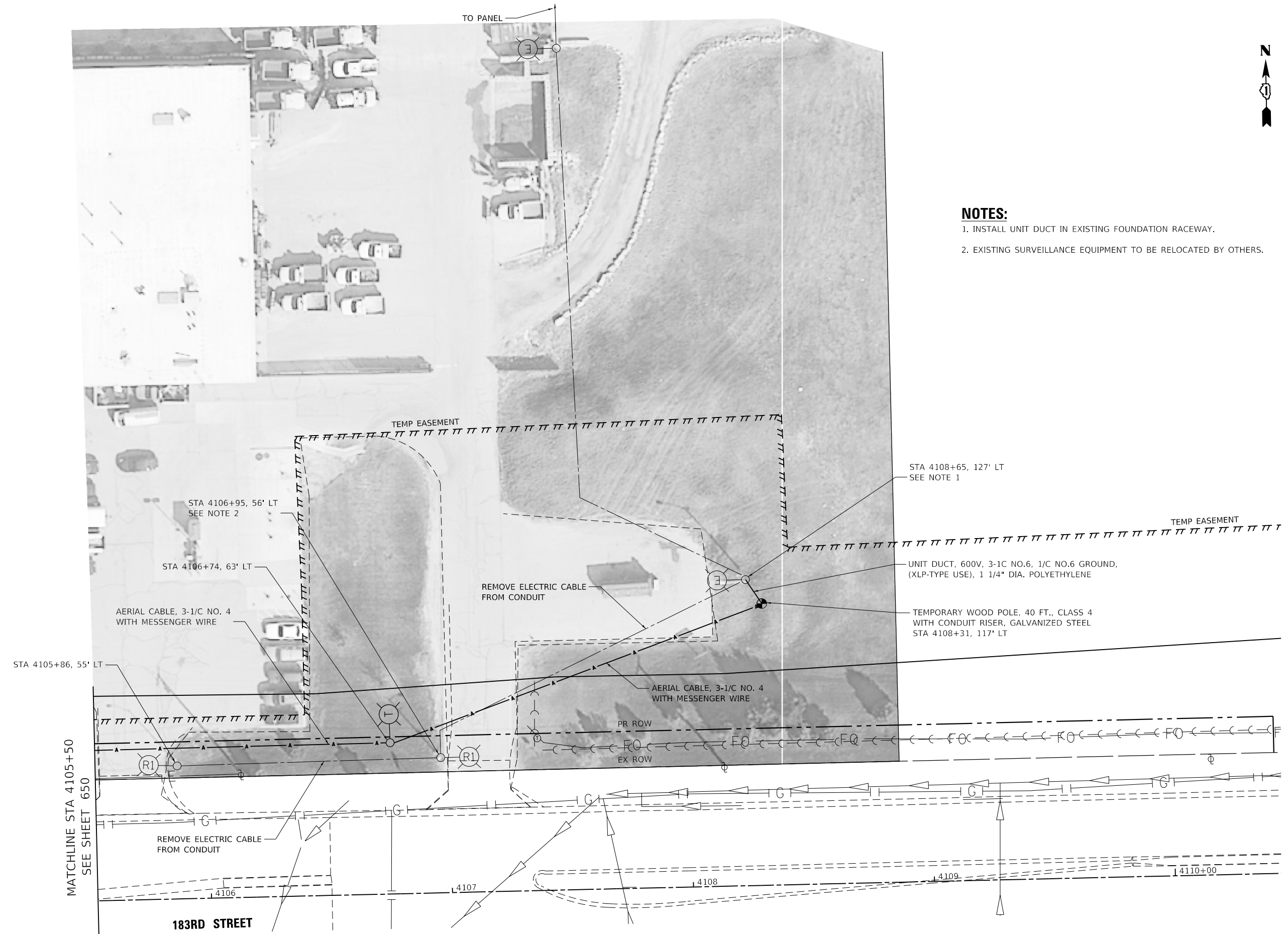
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 4102+20 TO STA. 4108+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	650
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



NOTES:

1. INSTALL UNIT DUCT IN EXISTING FOUNDATION RACEWAY.
2. EXISTING SURVEILLANCE EQUIPMENT TO BE RELOCATED BY OTHERS.



DATE PLOTTED = 3/21/2021 12:52:10 PM
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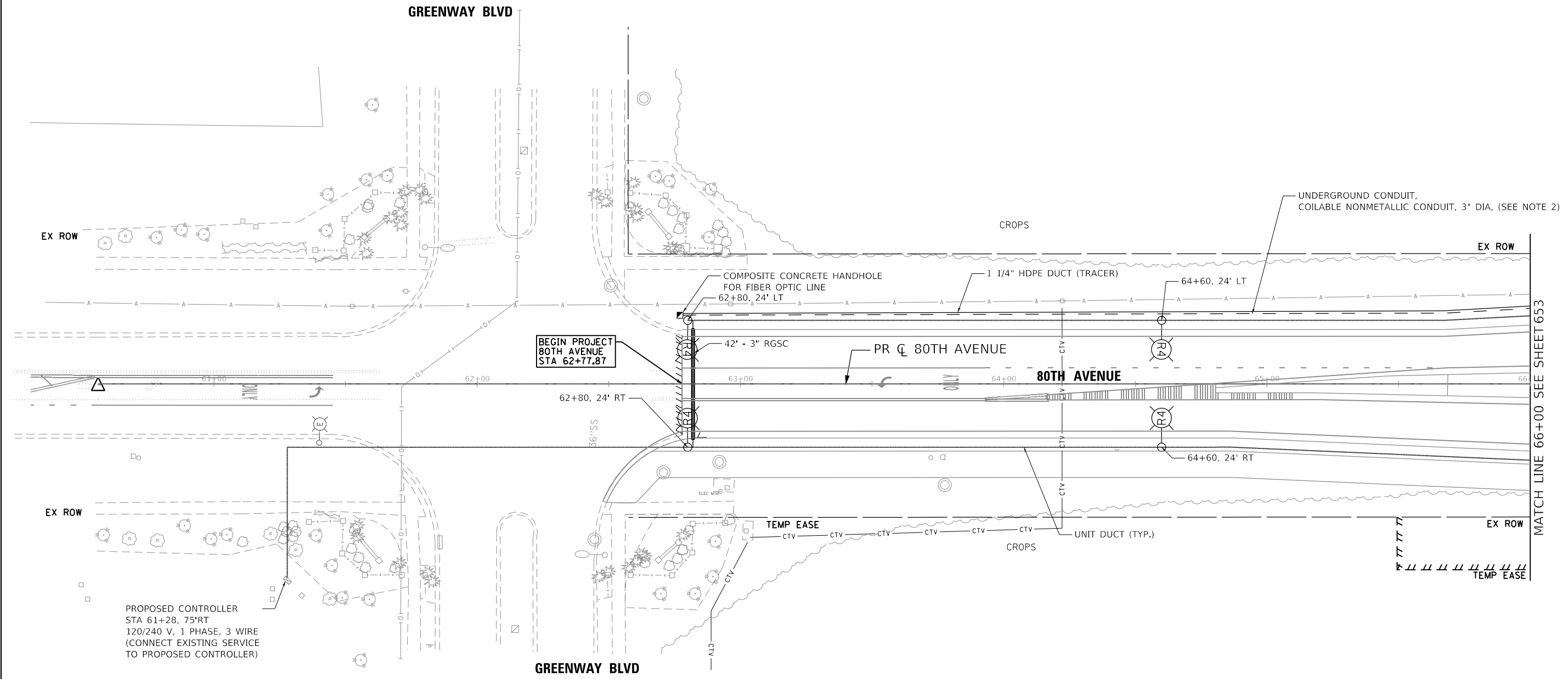
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PLOT DATE = 3/31/2021	DATE - 3/3/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK TEMPORARY LIGHTING AND REMOVAL PLAN
PUBLIC WORKS LIGHTING**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 4105+50 TO STA. 4110+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	651
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



**BEGIN PROJECT
80TH AVENUE
STA 62+77.87**

PROPOSED CONTROLLER
STA 61+28, 75' RT
120/240 V, 1 PHASE, 3 WIRE
(CONNECT EXISTING SERVICE
TO PROPOSED CONTROLLER)

NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.

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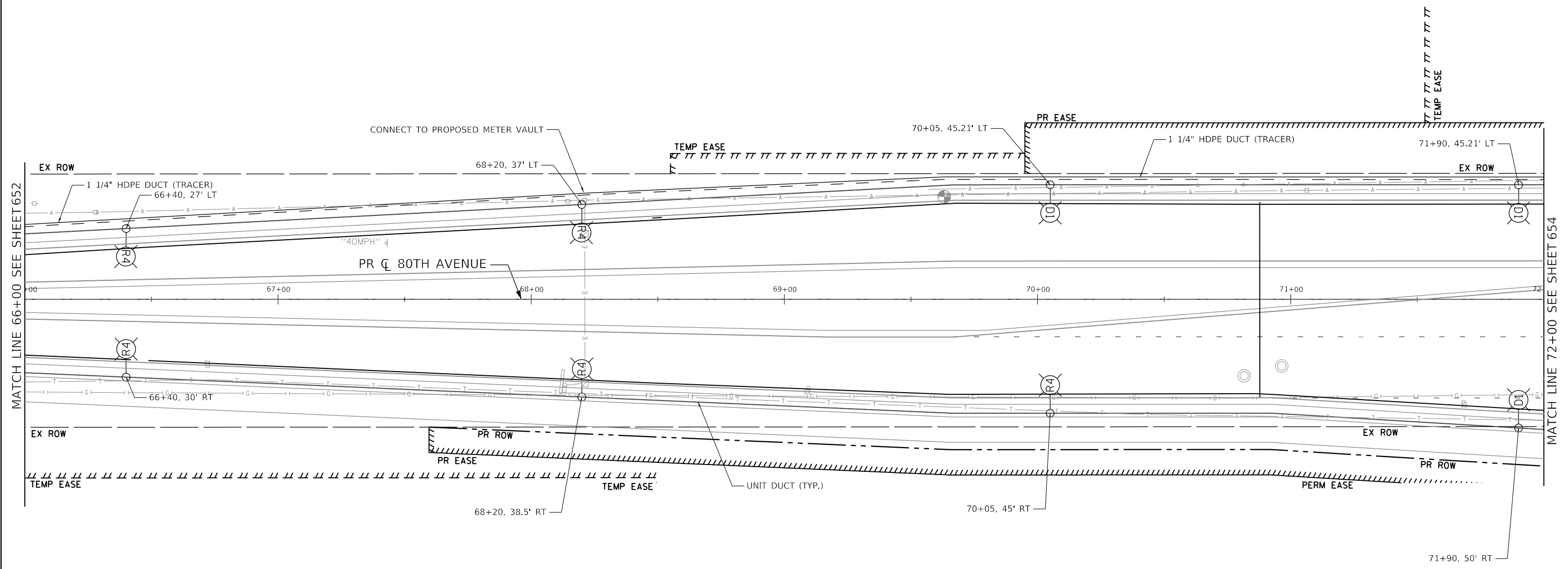
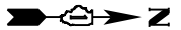


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PLOT DATE = 3/31/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

80TH AVENUE TINLEY PARK PROPOSED LIGHTING PLAN 80TH AVENUE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2755	06-00122-16-FP	WILL	1113	652
SCALE: 1" = 20'		SHEET OF SHEETS		STA. 82+00 TO STA. 88+00		

ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 61G73			



MATCH LINE 66+00 SEE SHEET 652

MATCH LINE 72+00 SEE SHEET 654

NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.

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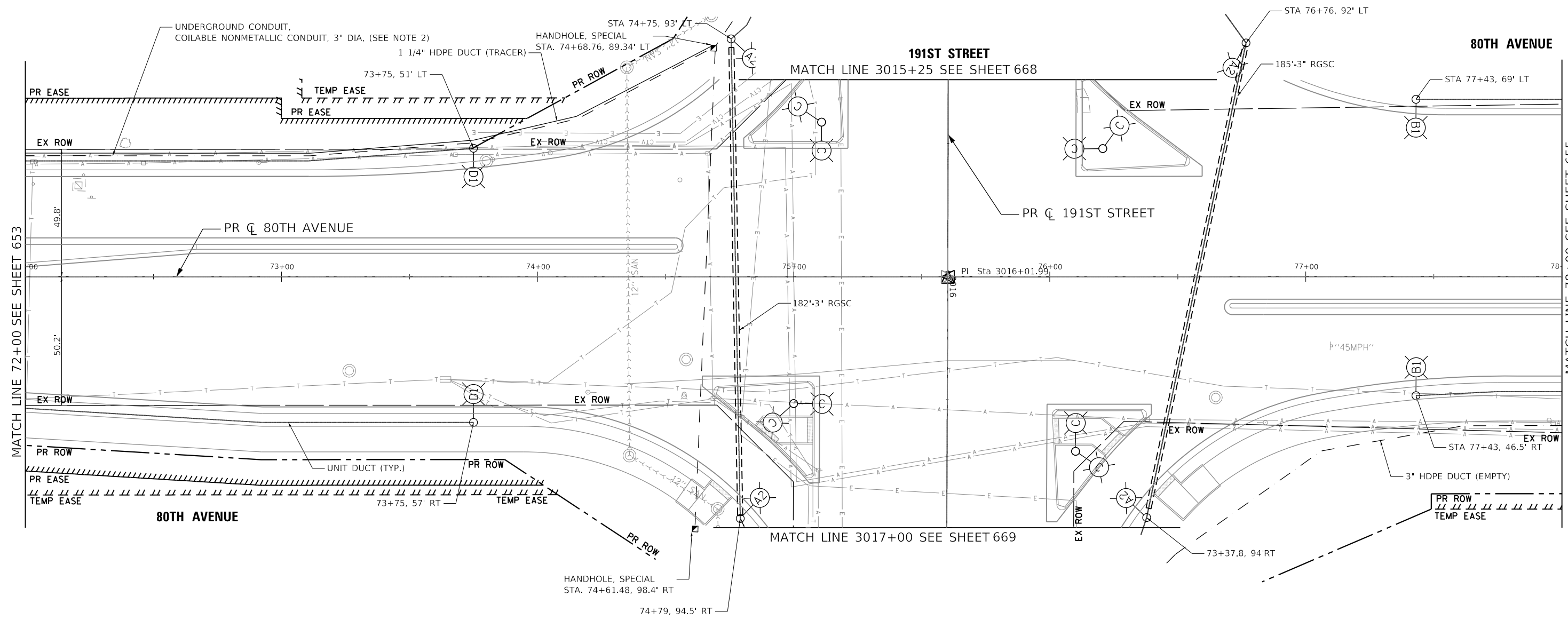


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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE TINLEY PARK PROPOSED LIGHTING PLAN 80TH AVENUE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2755	06-00122-16-FP	WILL	1113	653
SCALE: 1" = 20'		SHEET 653 OF 1113 SHEETS		STA. 66+00 TO STA. 72+00		

CONTRACT NO. 61G73		ILLINOIS	FED. AID PROJECT
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NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.
3. COMBINATION POLES AT THE INTERSECTION OF 80TH AVENUE AND 191ST STREET SHALL BE POWERED FROM THE TRAFFIC SIGNAL CABINET.

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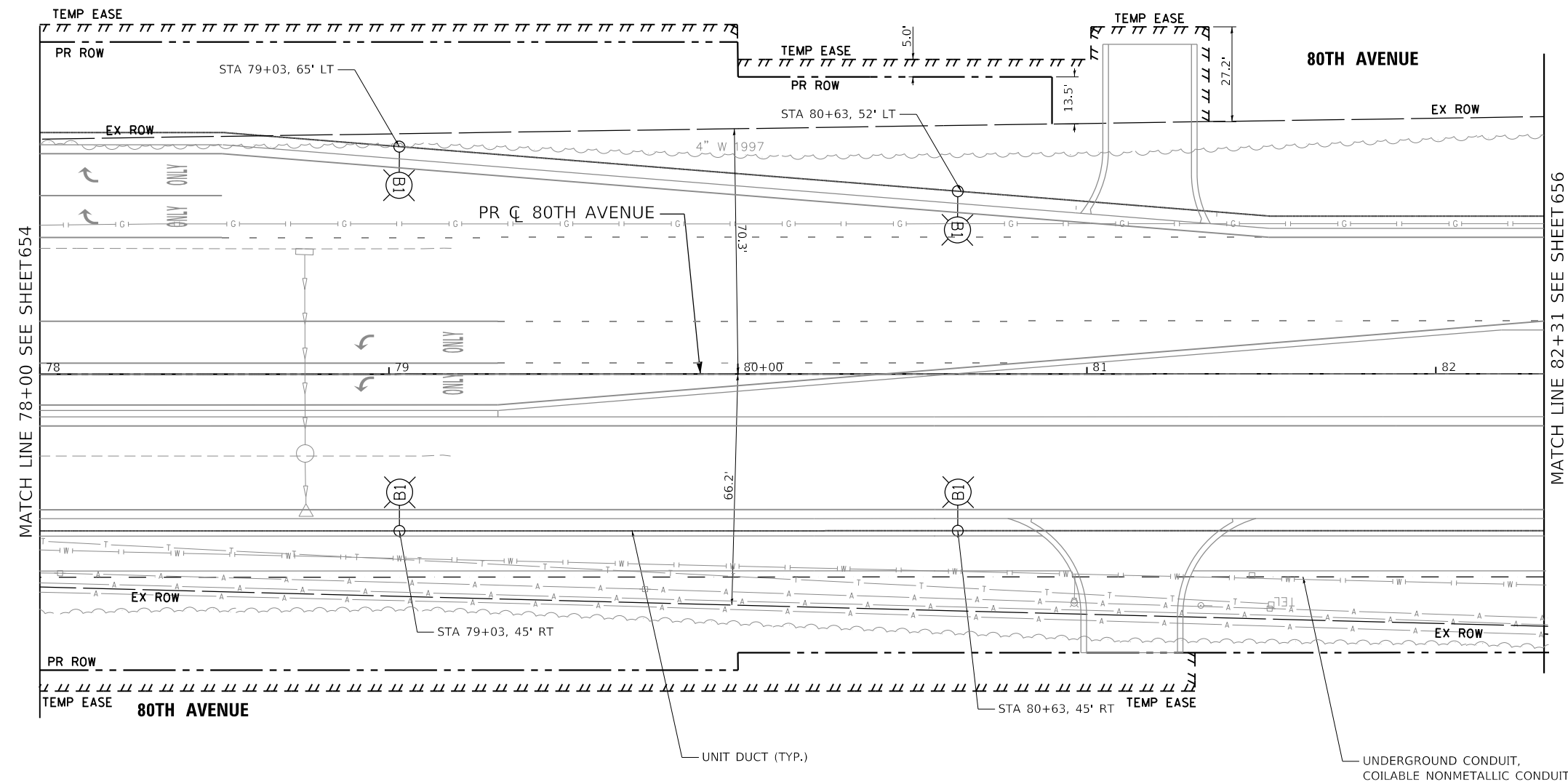
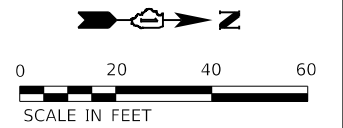


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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE TINLEY PARK PROPOSED LIGHTING PLAN 80TH AVENUE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2755	06-00122-16-FP	WILL	1113	654
SCALE:		SHEET 654 OF 1113 SHEETS		STA. 72+00 TO STA. 78+00		CONTRACT NO. 61G73

ILLINOIS		FED. AID PROJECT	
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NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.

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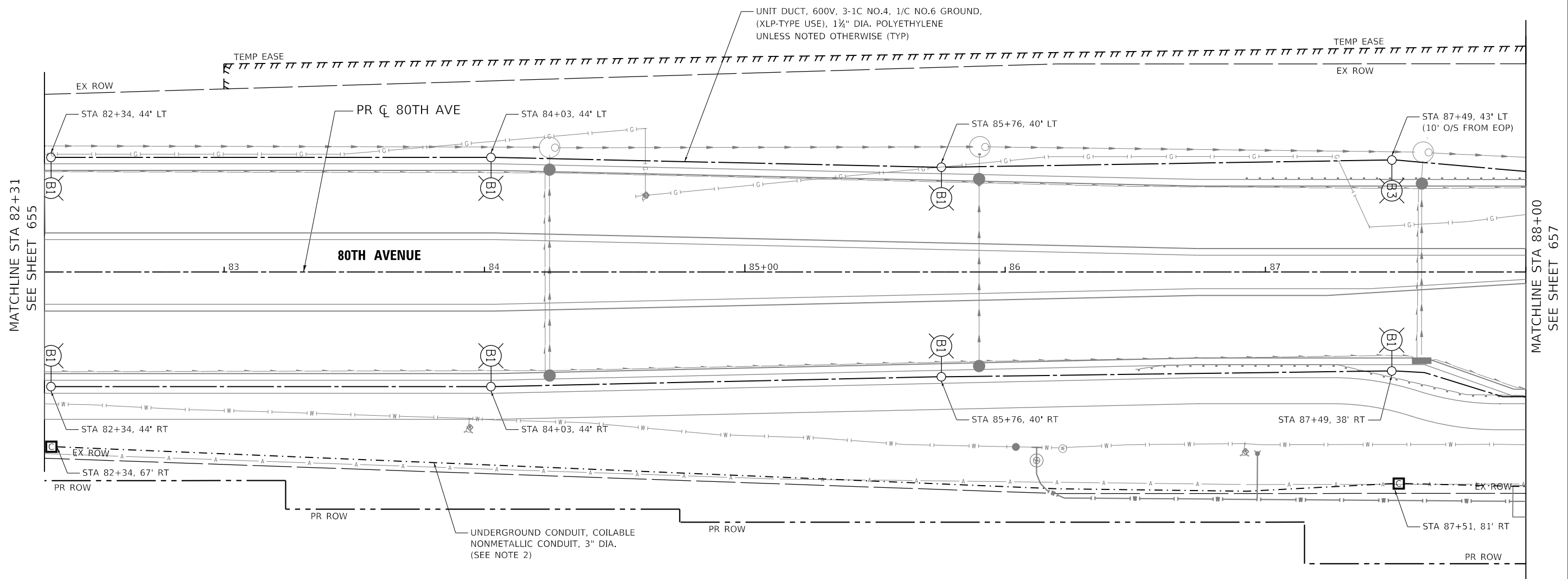


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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TINLEY PARK PROPOSED LIGHTING PLAN		2755	06-00122-16-FP	WILL	1113	655
80TH AVENUE		CONTRACT NO. 61G73				
SCALE: 1" = 20'	SHEET 655 OF 1113 SHEETS	STA. 82+00	TO STA. 88+00			

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	655
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



NOTES:

- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
- 2.) DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.



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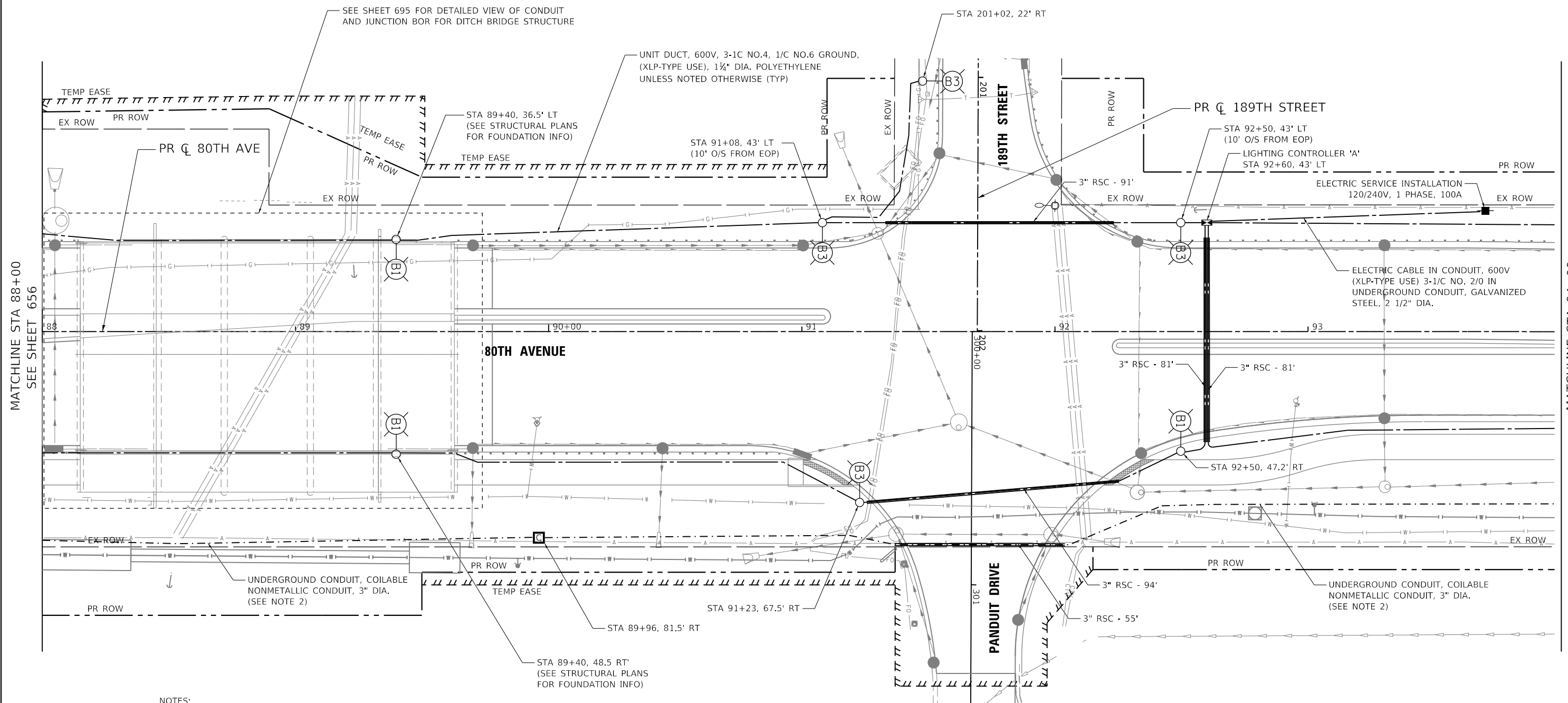
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
80TH AVENUE**

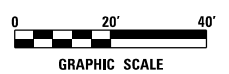
SCALE: 1" = 20' SHEET NO. 1 OF 15 SHEETS STA. 82+00 TO STA. 88+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	656
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



NOTES:

- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
- 2.) DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.



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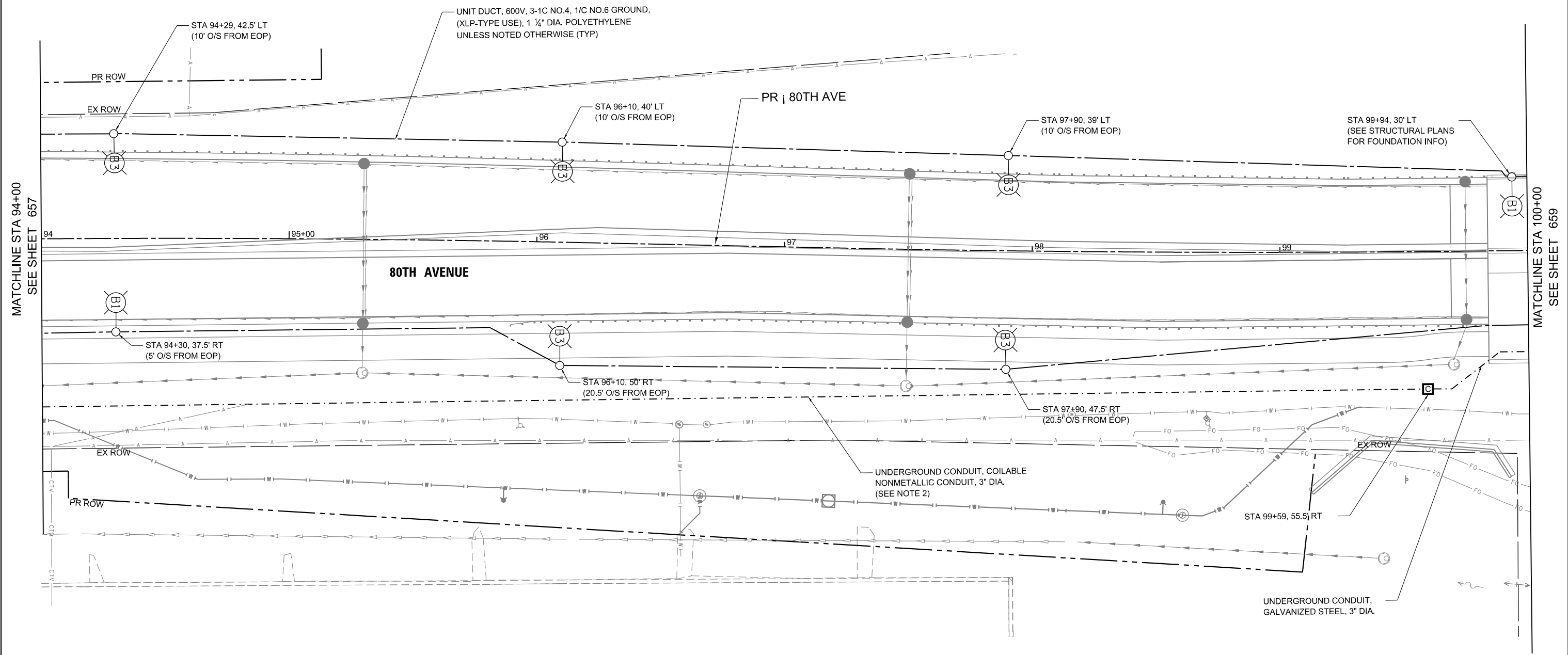


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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

80TH AVENUE TINLEY PARK PROPOSED LIGHTING PLAN 80TH AVENUE	
SCALE: 1" = 20'	SHEET NO. 2 OF 15 SHEETS
STA. 88+00	TO STA. 94+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	657
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



- NOTES:
- POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
 - DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.



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USER NAME = Electrical	DESIGNED - DTJ	REVISED -
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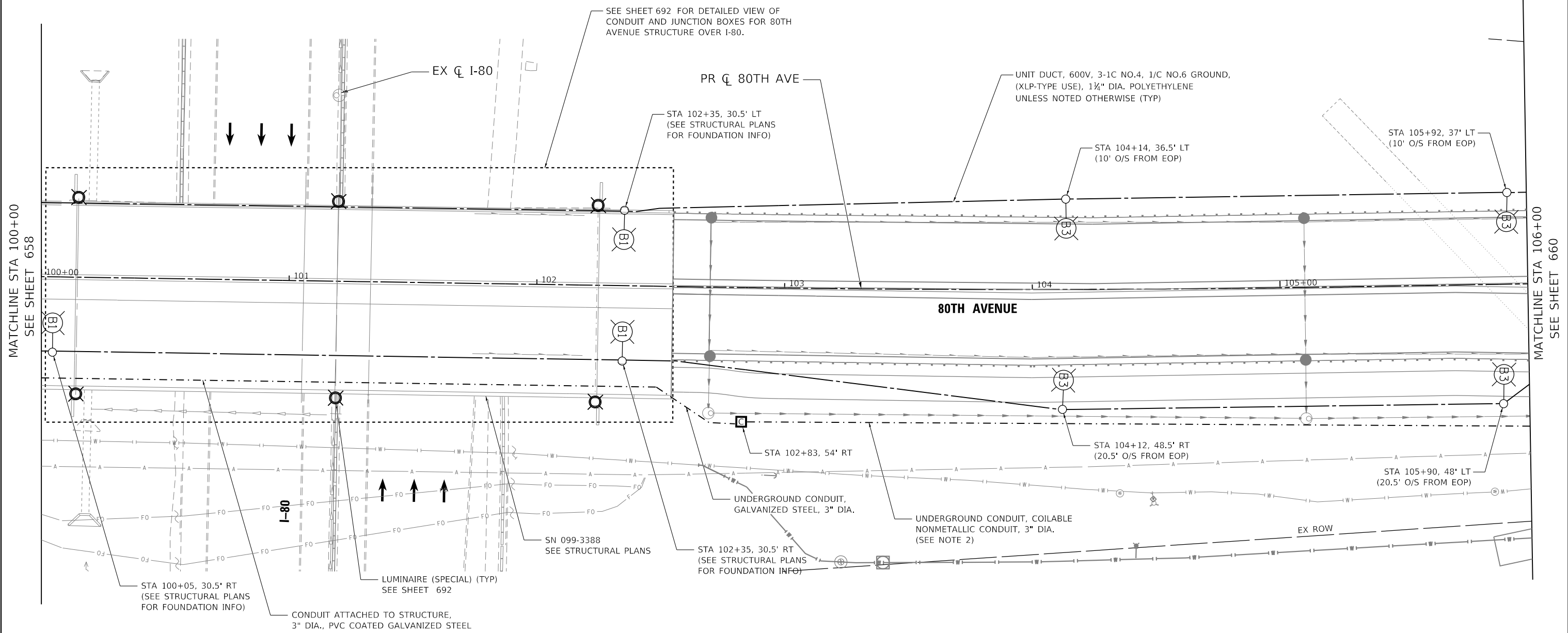
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
80TH AVENUE

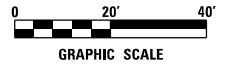
SCALE: 1" = 20' SHEET NO. 3 OF 15 SHEETS STA. 94+00 TO STA. 100+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	658
CONTRACT NO.			61G73	

ILLINOIS FED. AID PROJECT



- NOTES:
- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
 - 2.) DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.



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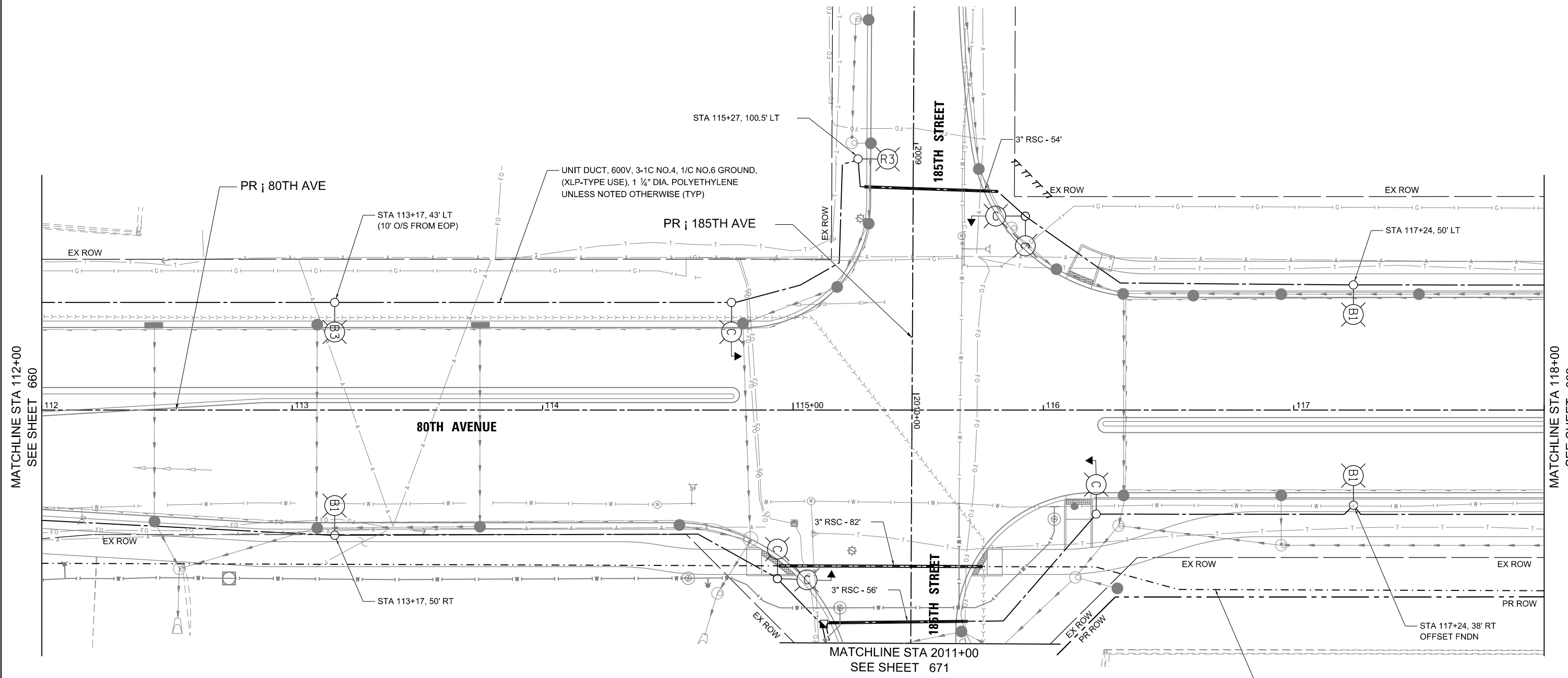
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
80TH AVENUE

SCALE: 1" = 20' SHEET NO. 4 OF 15 SHEETS STA. 100+00 TO STA. 106+00

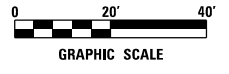
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	659
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



NOTES:

- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
- 2.) DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.
- 3.) COMBINATION POLES AT THE INTERSECTION OF 80TH AVENUE AND 185TH STREET SHALL BE CONNECTED TO ADJACENT STREET LIGHTING CIRCUITS.

UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 3" DIA. (SEE NOTE 2)



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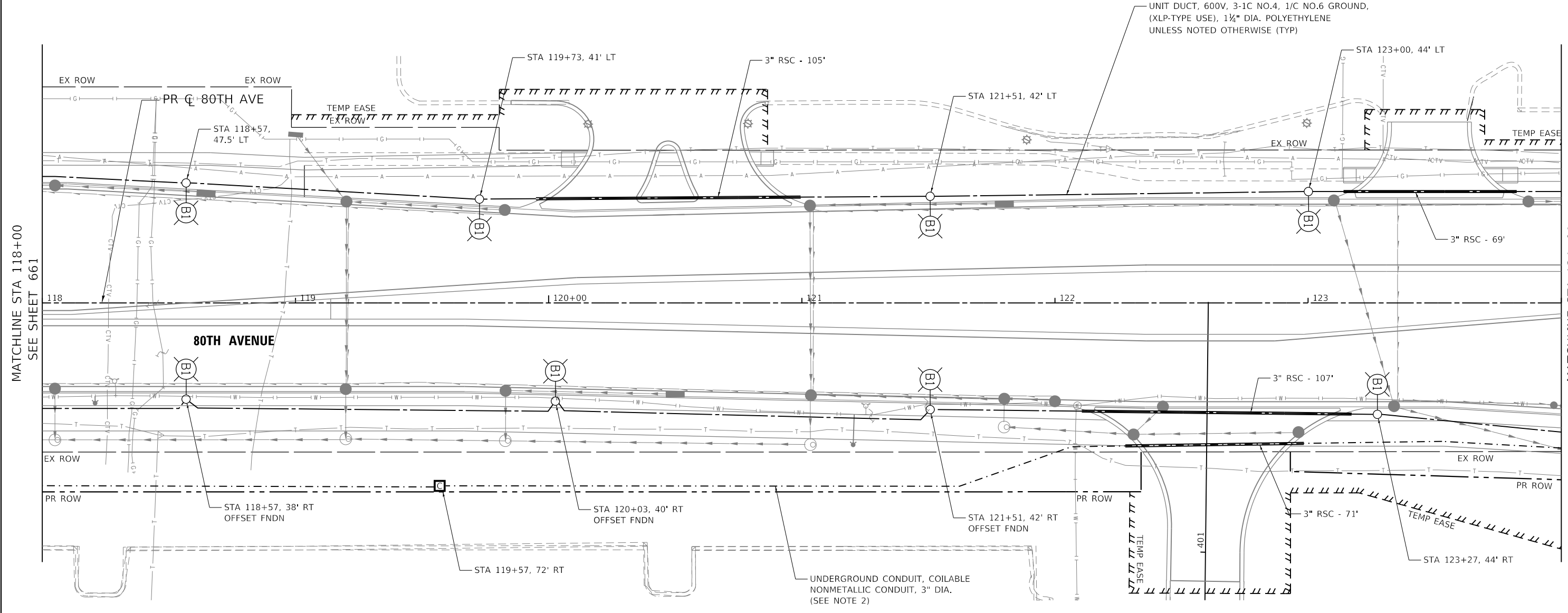


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

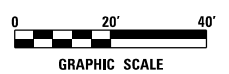
80TH AVENUE TINLEY PARK PROPOSED LIGHTING PLAN 80TH AVENUE	
SCALE: 1" = 20'	SHEET NO. 6 OF 15 SHEETS
STA. 112+00	TO STA. 118+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	661
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



NOTES:

- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
- 2.) DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.



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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
80TH AVENUE**

SCALE: 1" = 20' SHEET NO. 7 OF 15 SHEETS STA. 118+00 TO STA. 124+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	662
CONTRACT NO.			61G73	

ILLINOIS FED. AID PROJECT



NOTES:

- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
- 2.) DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.
- 3.) COMBINATION POLES AT THE INTERSECTION OF 80TH AVENUE AND 183RD STREET SHALL BE POWERED FROM THE TRAFFIC SIGNAL CABINET.

MATCHLINE STA 4100+00
SEE SHEET 673

UNIT DUCT, 600V, 6-1C NO.4,
1/C NO.6 GROUND, (XLP-TYPE
USE), 1 1/2" DIA. POLYETHYLENE

STA 4100+36, 61.5' RT
(10' O/S FROM EOP)

UNIT DUCT, 600V, 6-1C NO.4,
1/C NO.6 GROUND, (XLP-TYPE USE),
1 1/2" DIA. POLYETHYLENE

STA 4100+46, 47' LT
(8' O/S FROM EOP)

ELECTRIC SERVICE INSTALLATION
120/240V, 1 PHASE, 100A

ELECTRIC CABLE IN CONDUIT, 600V
(XLP-TYPE USE) 3-1/C NO. 2/0 IN
UNDERGROUND CONDUIT, GALVANIZED
STEEL, 2 1/2" DIA.

LIGHTING CONTROLLER 'B'
STA 124+13, 56' LT

PR ϕ 80TH AVE

STA 124+55, 44' LT

TEMP EASE

3" RSC - 85'

STA 125+97, 44' LT

STA 127+30, 60' LT
(10' O/S FROM EOP)

STA 127+79, 85' LT

TEMP EASE

PR ϕ 183RD ST

STA 129+92, 44' LT

TEMP EASE

MATCHLINE STA 124+00
SEE SHEET 662

MATCHLINE STA 130+00
SEE SHEET 664

80TH AVENUE

UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND,
(XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE
UNLESS NOTED OTHERWISE (TYP)

3" RSC - 90'

3" RSC - 90'

EX ROW

PR ROW

STA 124+55, 50' RT

STA 125+97, 56' RT

STA 127+32, 58' RT
OFFSET FOUNDATION

UNDERGROUND CONDUIT, COILABLE
NONMETALLIC CONDUIT, 3" DIA.
(SEE NOTE 2)

TEMP EASE

STA 127+95, 98' RT
(8' O/S FROM EOP)

STA 4103+04, 79.5' RT

3" RSC - 153'

MATCHLINE STA 4103+25
SEE SHEET 674

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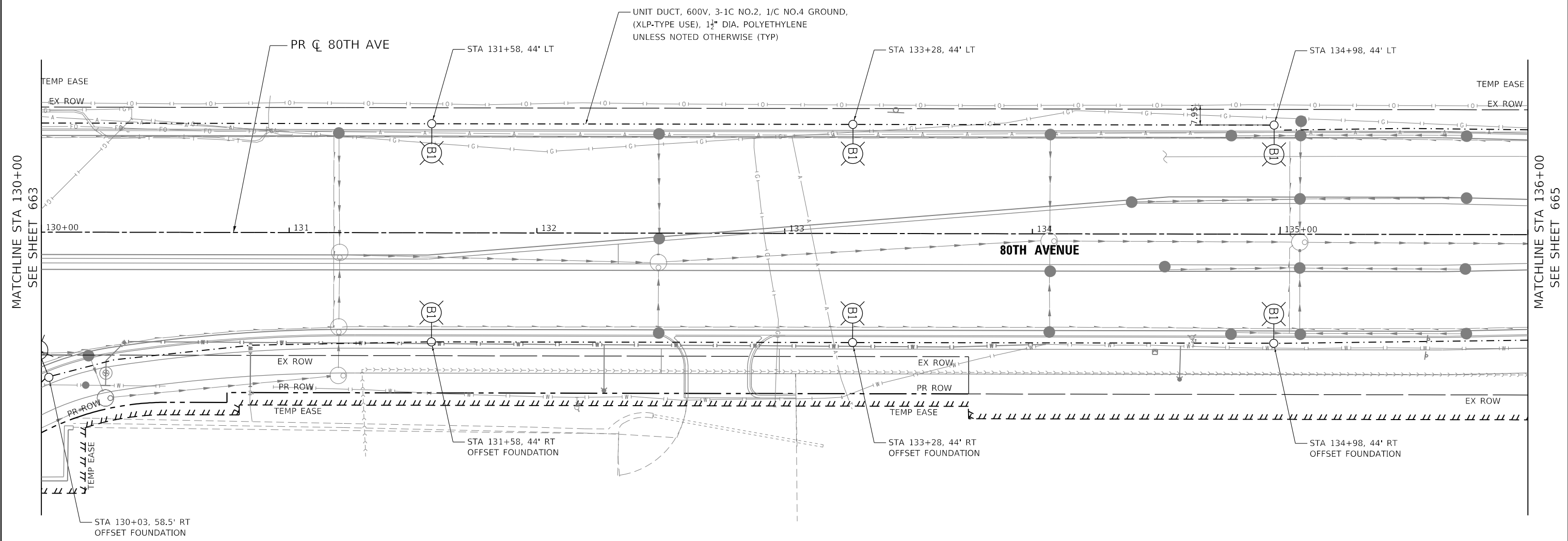
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

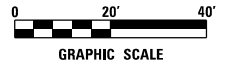
80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
80TH AVENUE

SCALE: 1" = 20' SHEET NO. 8 OF 15 SHEETS STA. 124+00 TO STA. 130+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	663
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



NOTES:
 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED



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	DRAWN - MJS	REVISED -
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PLOT DATE = 3/31/2021	DATE - 3/3/2021	REVISED -

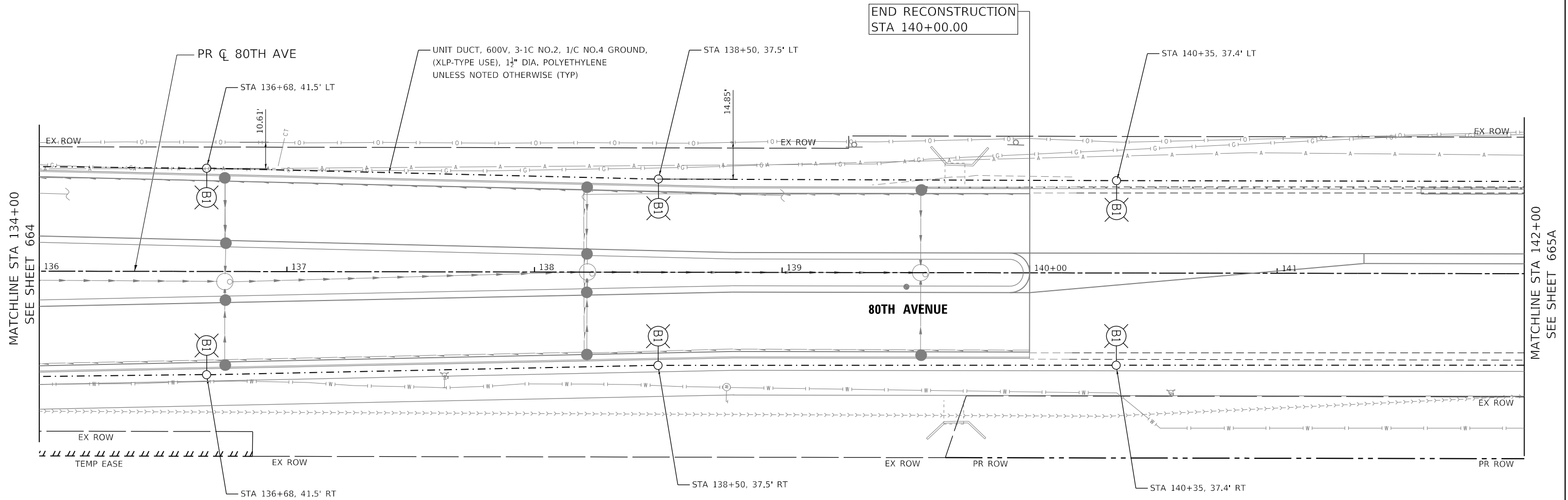
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
80TH AVENUE

SCALE: 1" = 20' SHEET NO. 9 OF 15 SHEETS STA. 130+00 TO STA. 136+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	664
CONTRACT NO. 61G73				

ILLINOIS FED. AID PROJECT



NOTES:

- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.



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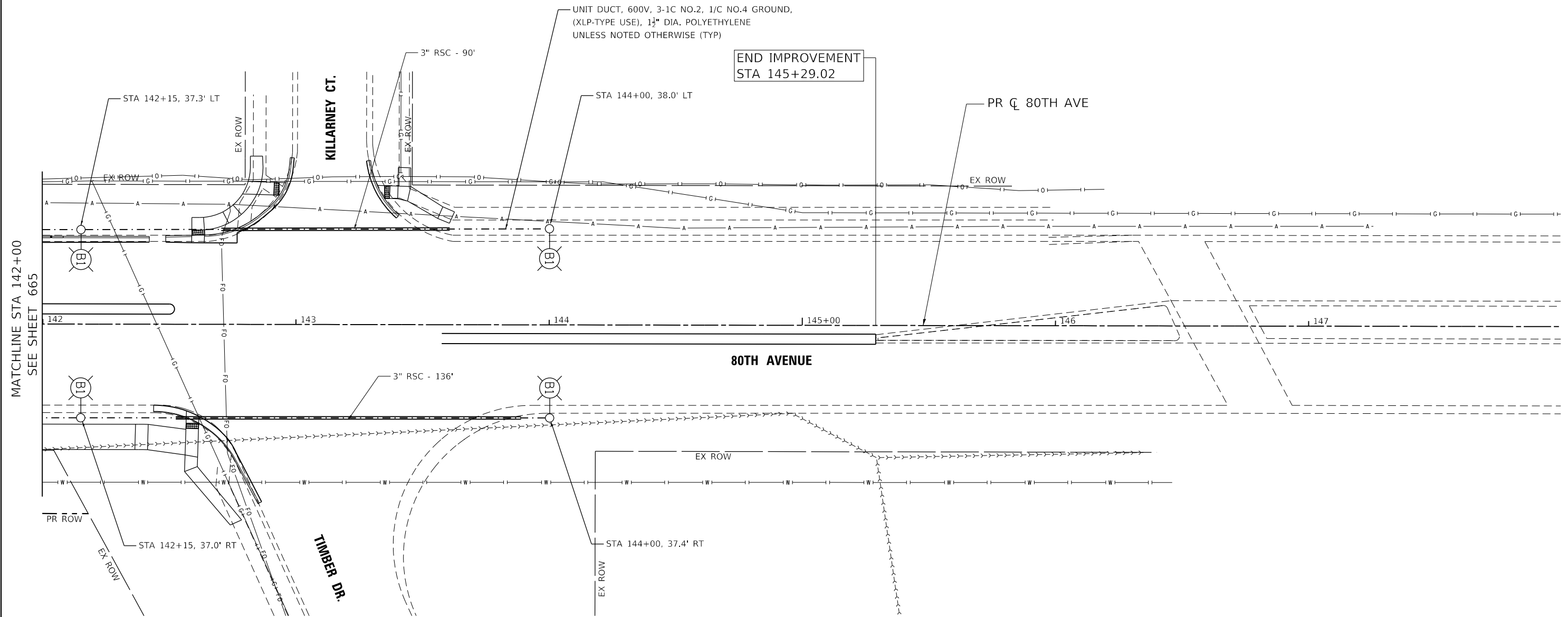
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	DRAWN - MJS	REVISED -
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PLOT DATE = 3/31/2021	DATE - 3/3/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
80TH AVENUE**

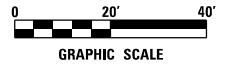
SCALE: 1" = 20' SHEET NO. 10 OF 15 SHEETS STA. 136+00 TO STA. 142+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	665
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 142+00
SEE SHEET 665

NOTES:
1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.



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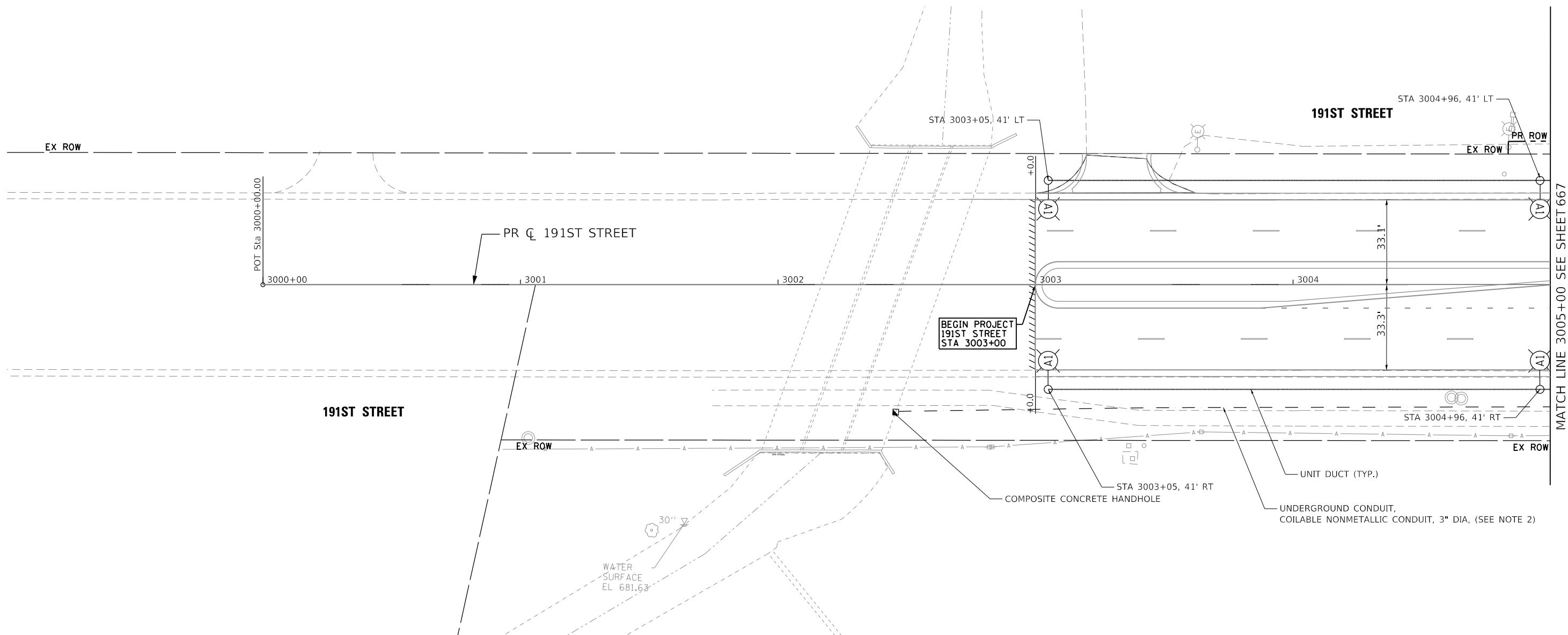


USER NAME = Electrical	DESIGNED - DTJ	REVISED -
	DRAWN - MJS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMW	REVISED -
PLOT DATE = 3/31/2021	DATE - 3/3/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
80TH AVENUE
SCALE: 1" = 20' SHEET NO. 10 OF 15 SHEETS STA. 136+00 TO STA. 142+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	665A
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



MATCH LINE 3005+00 SEE SHEET 667

NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.

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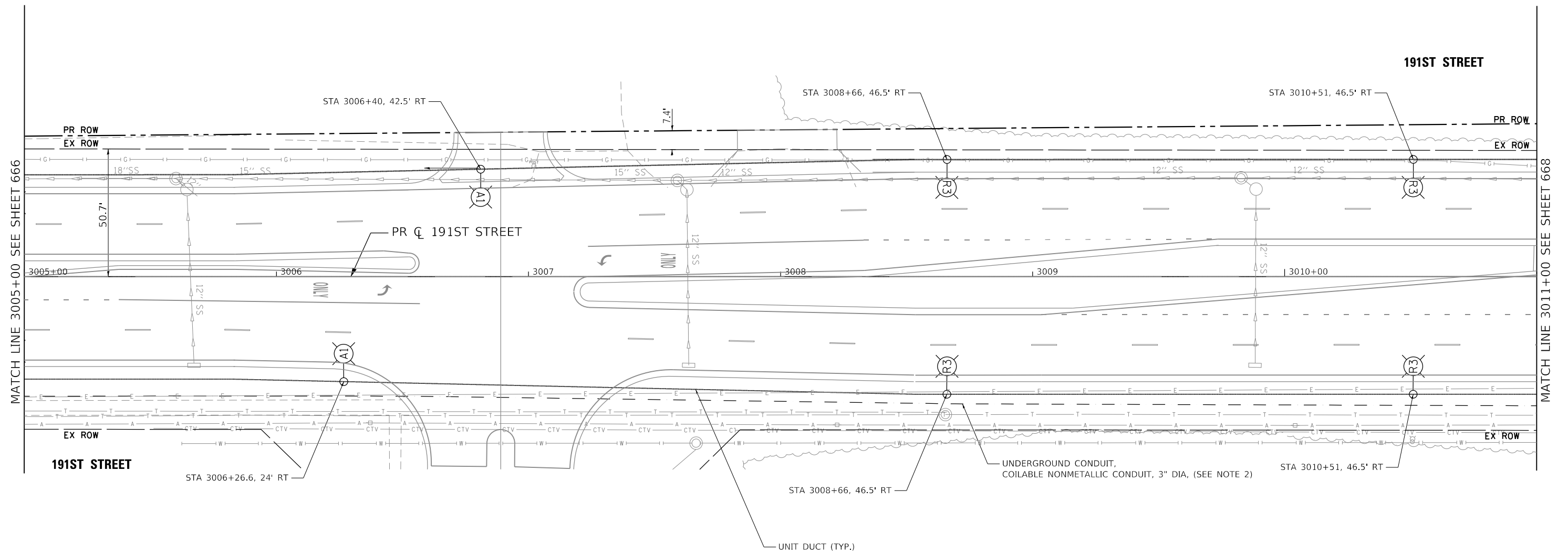
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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
191ST STREET**

SCALE: 1" = 20' SHEET 666 OF 1113 SHEETS STA. 3001+00 TO STA. 3005+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	666
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.

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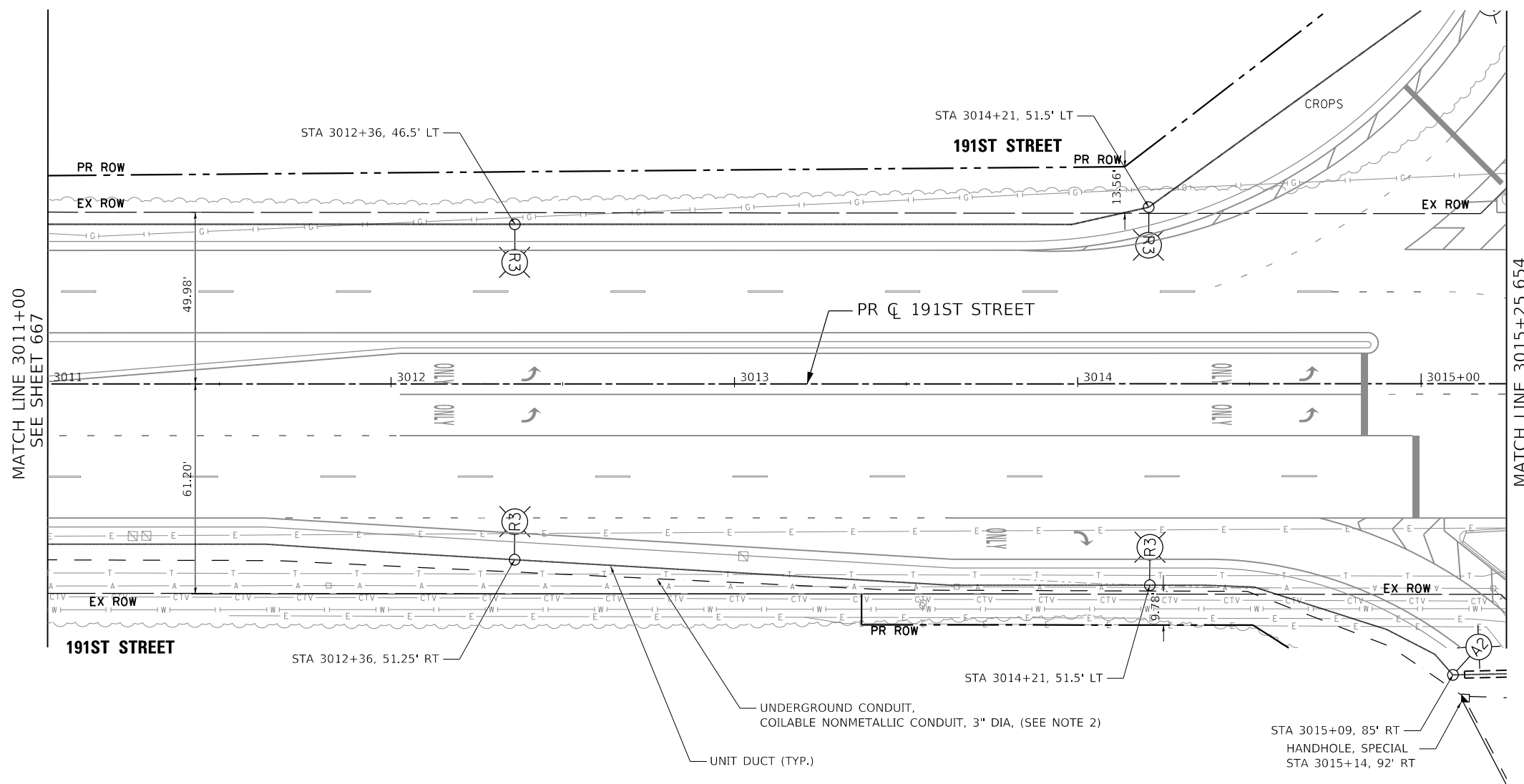
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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISOR -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
191ST STREET

SCALE: 1" = 20' SHEET 667 OF 1113 SHEETS STA. 3005+00 TO STA. 3011+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	667
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.

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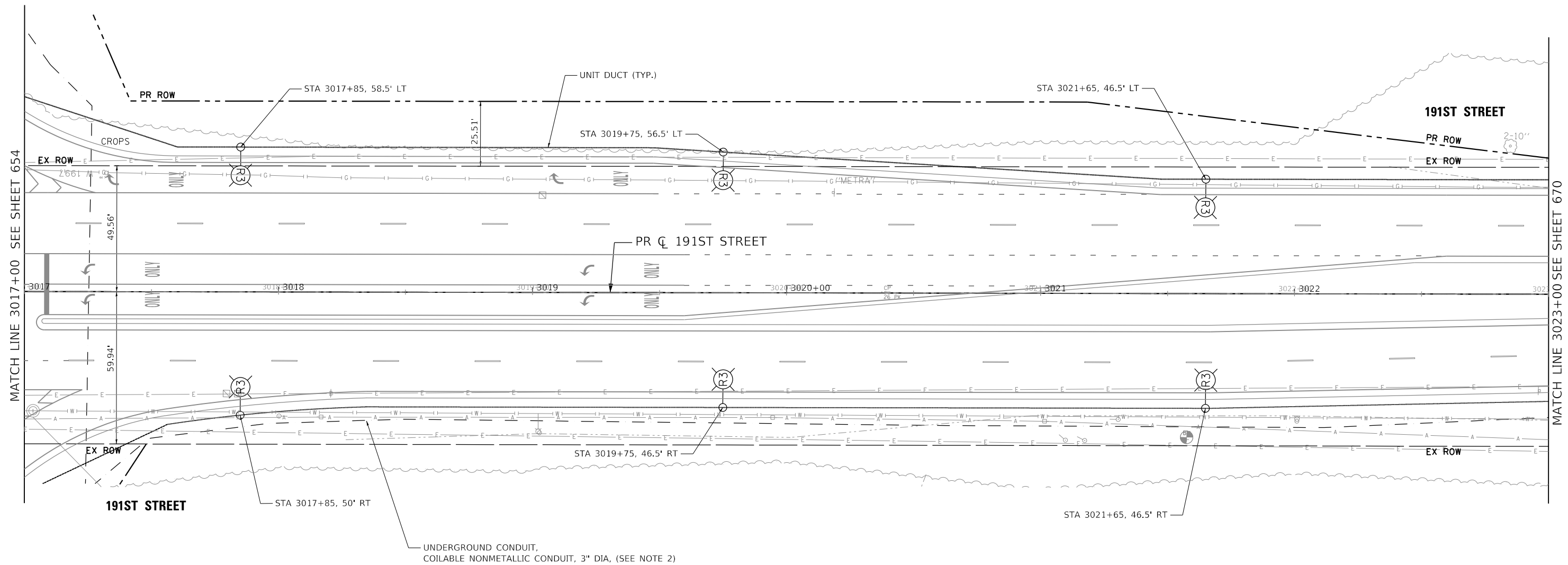
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PLOT DATE =	3/31/2021	DATE -	11/23/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
191ST STREET

SCALE: 1" = 20' SHEET 668 OF 1113 SHEETS STA. 3011+00 TO STA. 3015+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	668
CONTRACT NO. 61G73				
ILLINOIS		FED. AID PROJECT		



NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.

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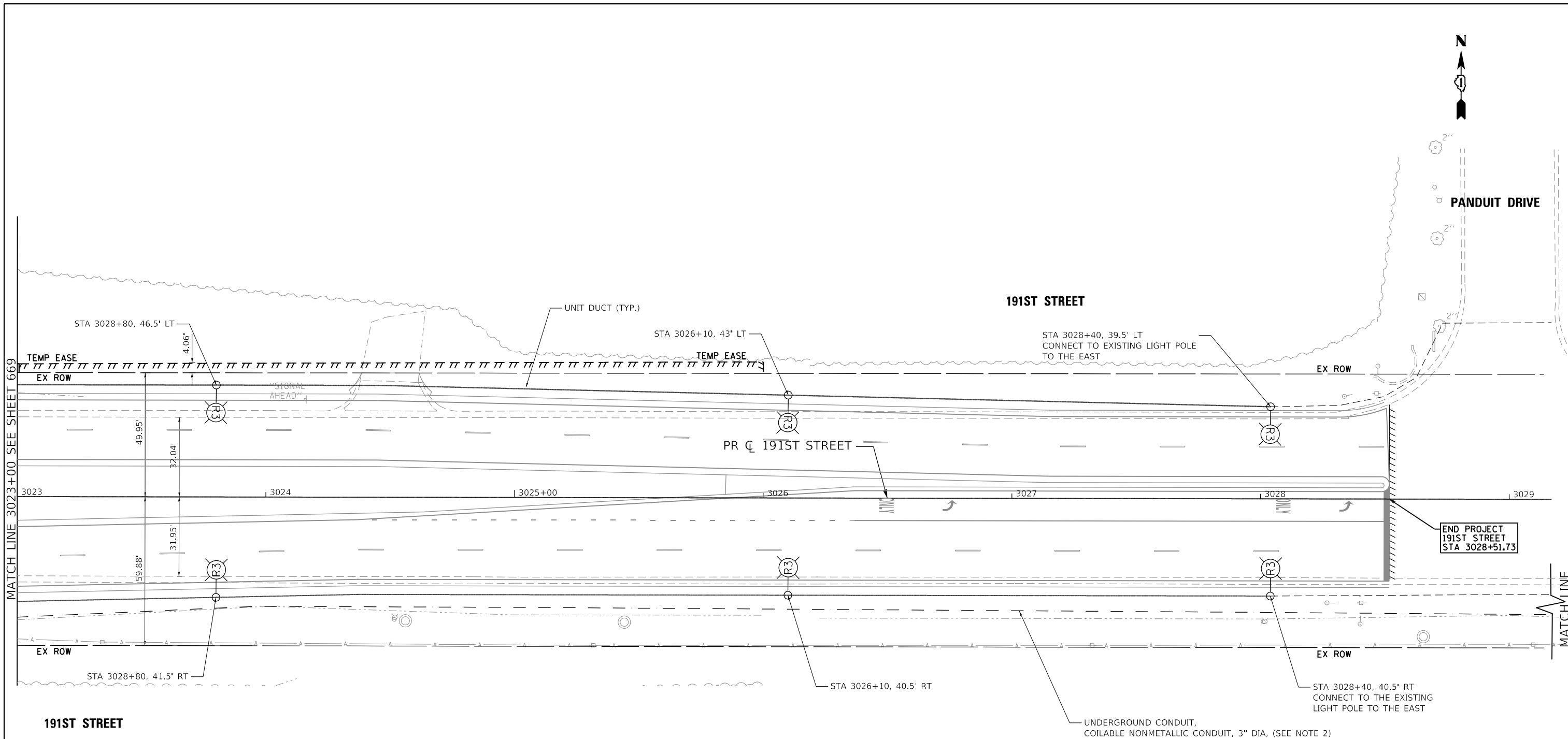


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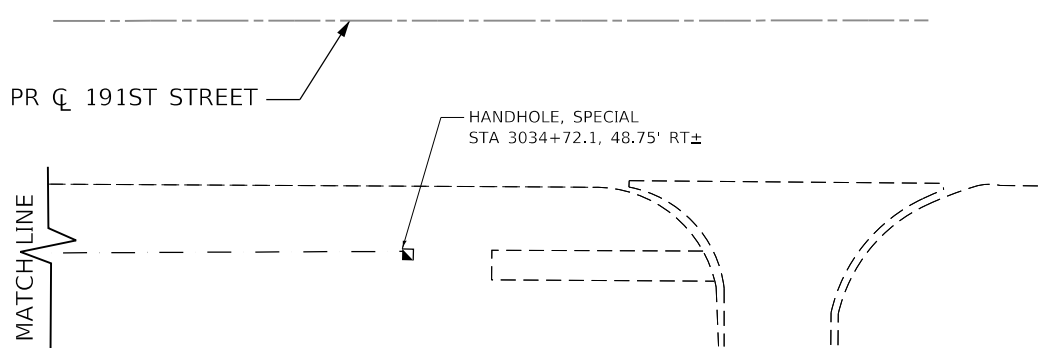
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE TINLEY PARK PROPOSED LIGHTING PLAN 191ST STREET		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2755	06-00122-16-FP	WILL	1113	669
SCALE: 1" = 20'		SHEET 669 OF 1113 SHEETS		STA. 3017+00 TO STA. 3023+00		

ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 61G73			



END PROJECT
191ST STREET
STA 3028+51.73



NOTES

1. POLES SHALL BE 5' FROM EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
2. DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.

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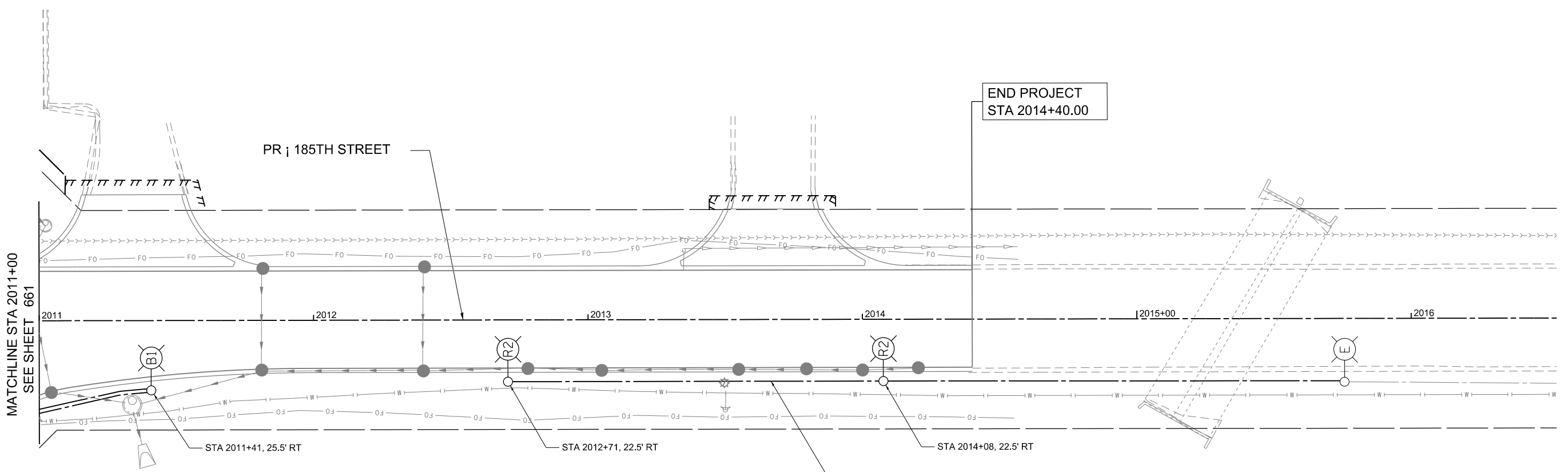
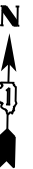
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

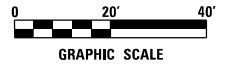
**80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
191ST STREET**

SCALE: 1" = 20' SHEET 670 OF 1113 SHEETS STA. 3023+00 TO STA. 3029+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	670
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



NOTES:
 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.



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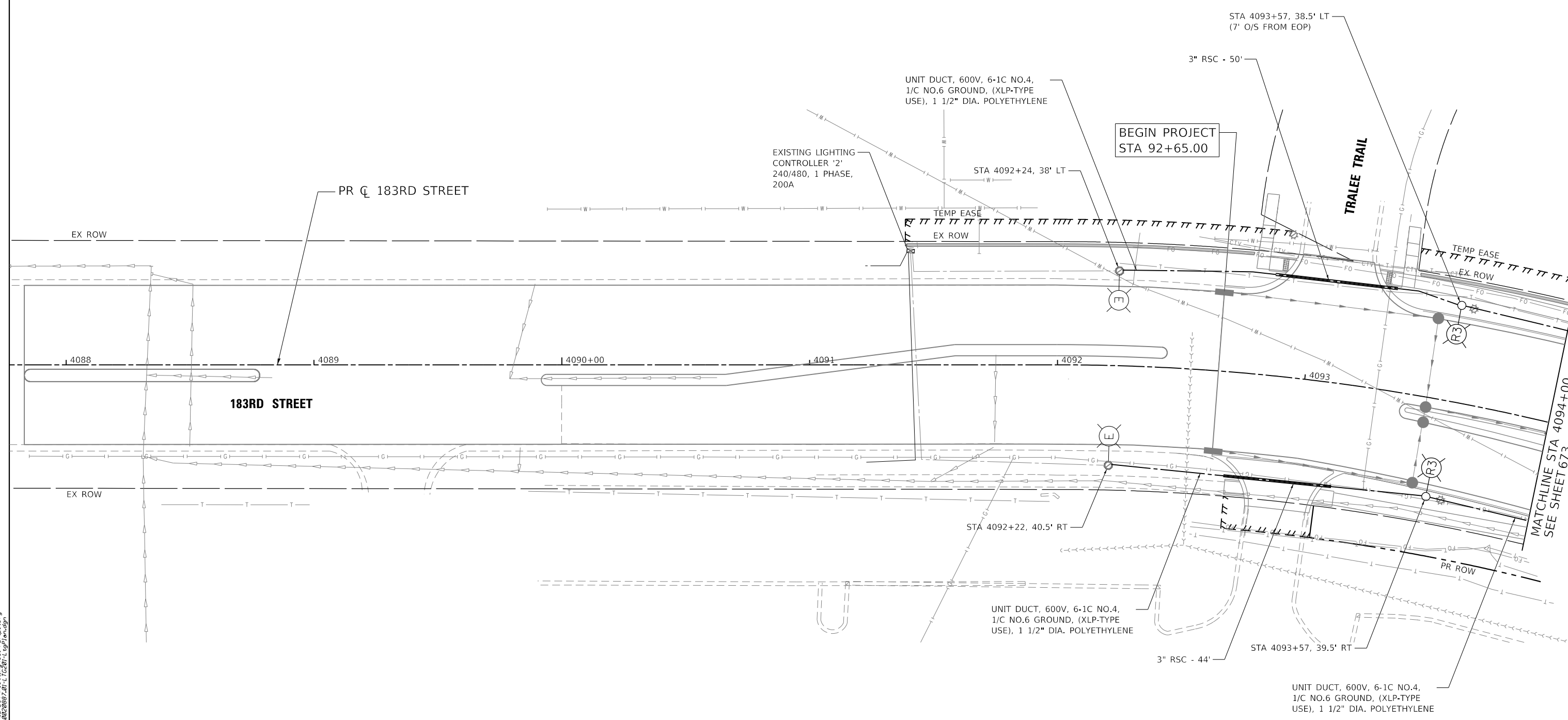
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

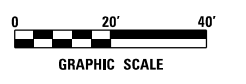
80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
185TH STREET

SCALE: 1" = 20' SHEET NO. 15 OF 15 SHEETS STA. 2011+00 TO STA. 2014+40

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	671
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



NOTES:
 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.



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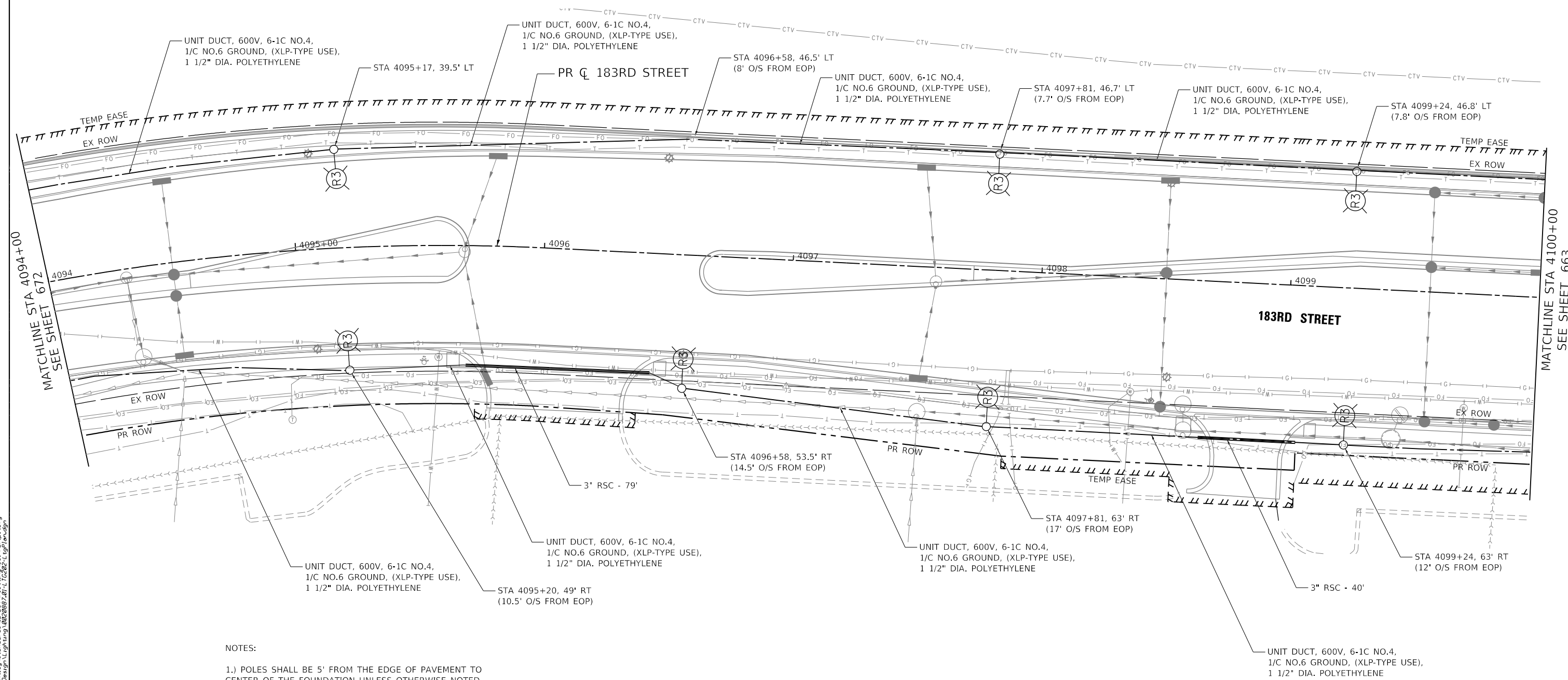


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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

80TH AVENUE TINLEY PARK PROPOSED LIGHTING PLAN 183RD STREET		
SCALE: 1" = 20'	SHEET NO. 11 OF 15 SHEETS	STA. 87+80 TO STA. 94+00

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 672
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



NOTES:
 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.



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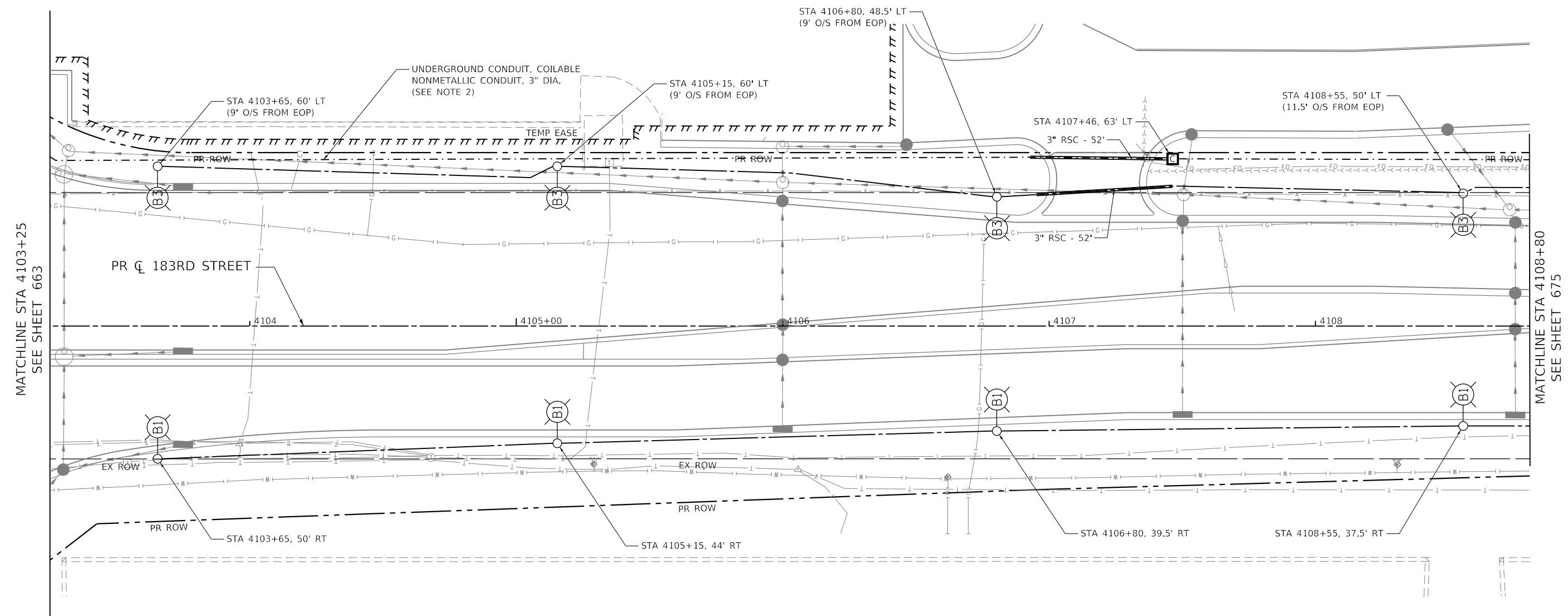
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

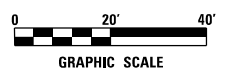
**80TH AVENUE
 TINLEY PARK PROPOSED LIGHTING PLAN
 183RD STREET**

SCALE: 1" = 20' SHEET NO. 12 OF 15 SHEETS STA. 94+00 TO STA. 100+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	673
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



- NOTES:
- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
 - 2.) DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.



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USER NAME = untitled	DESIGNED - DTJ	REVISED -
	DRAWN - MJS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMV	REVISED -
PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

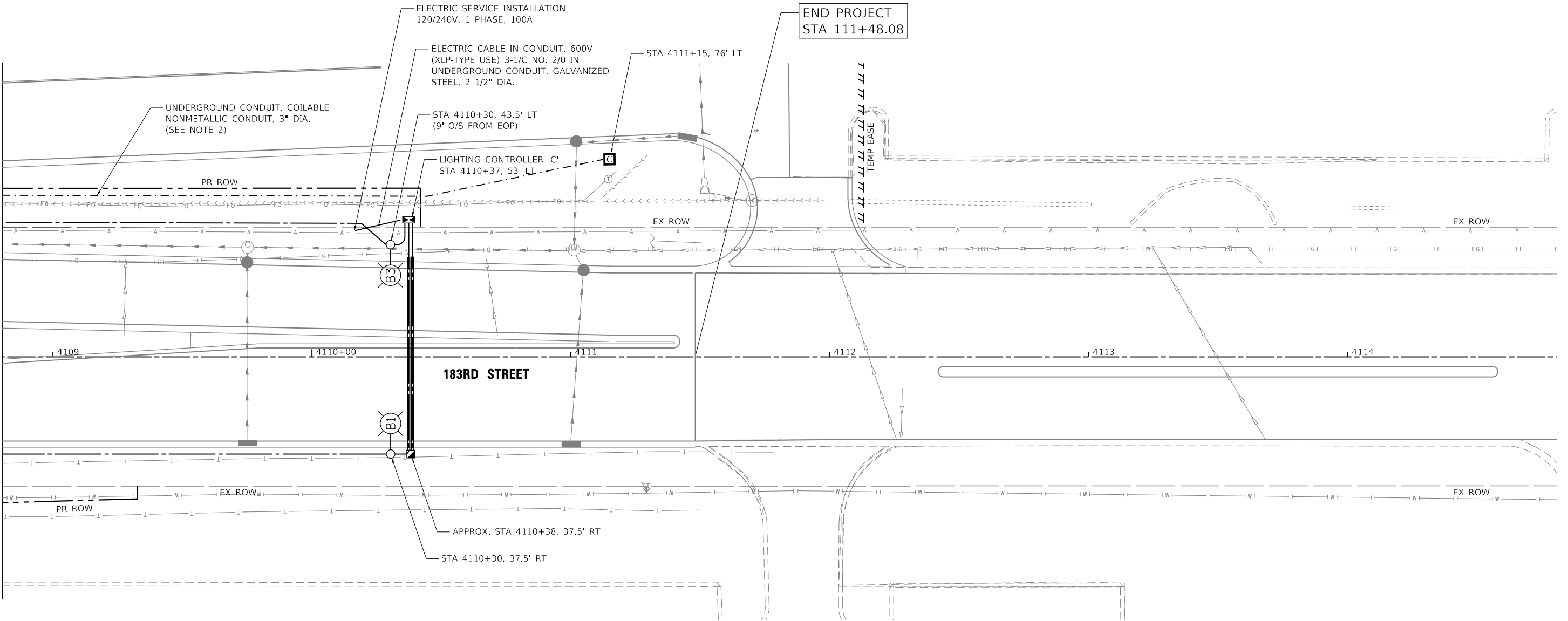
80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
183RD STREET

SCALE: 1" = 20' SHEET NO. 13 OF 15 SHEETS STA. 102+80 TO STA. 108+80

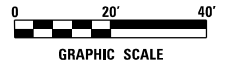
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	674
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 4108+80
SEE SHEET 674



- NOTES:
- 1.) POLES SHALL BE 5' FROM THE EDGE OF PAVEMENT TO CENTER OF THE FOUNDATION UNLESS OTHERWISE NOTED.
 - 2.) DUCT FOR FUTURE FIBER OPTIC CABLE SHALL BE INSTALLED AT A DEPTH OF 15' UNLESS OTHERWISE NOTED. A PULL STRING SHALL BE PROVIDED IN ALL DUCTS FOR FUTURE FIBER OPTIC CABLE.



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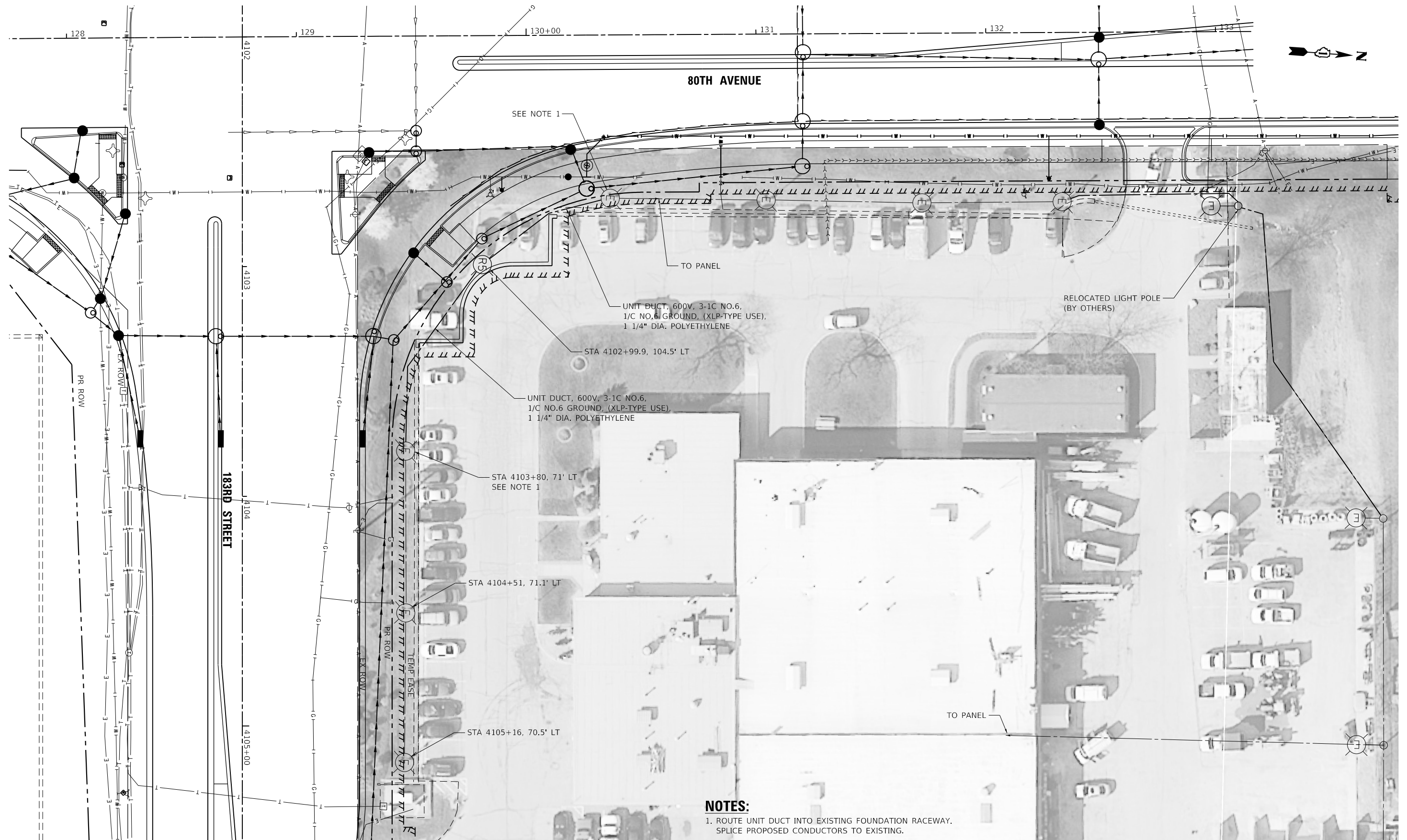
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
183RD STREET**

SCALE: 1" = 20' SHEET NO. 14 OF 15 SHEETS STA. 108+80 TO STA. 114+80

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	675
CONTRACT NO. 61G73				
ILLINOIS FED. AID PROJECT				



NOTES:
 1. ROUTE UNIT DUCT INTO EXISTING FOUNDATION RACEWAY.
 SPLICE PROPOSED CONDUCTORS TO EXISTING.

MATCHLINE STA 4105+50
 SEE SHEET 677



DATE PLOTTED = 3/21/2021 12:52:22 PM
 PEN TABLE =
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USER NAME = Electrical	DESIGNED - DTJ	REVISED -
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PLOT DATE = 3/31/2021	DATE - 3/3/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

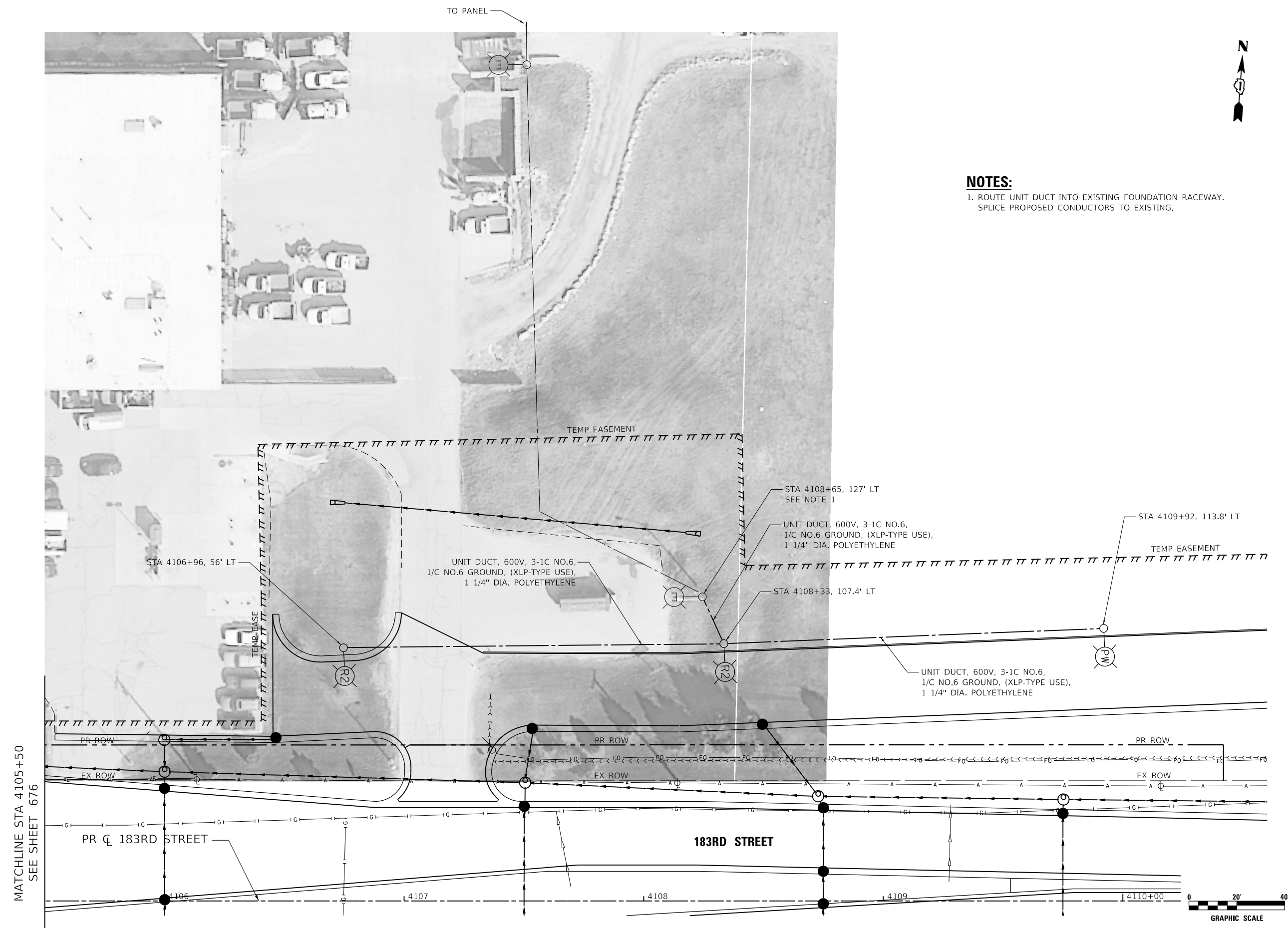
**80TH AVENUE
 TINLEY PARK PROPOSED LIGHTING PLAN
 PUBLIC WORKS LIGHTING**

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 128+00 TO STA. 133+50

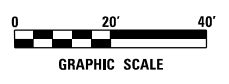
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	676
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



NOTES:
 1. ROUTE UNIT DUCT INTO EXISTING FOUNDATION RACEWAY.
 SPLICE PROPOSED CONDUCTORS TO EXISTING.



MATCHLINE STA 4105+50
SEE SHEET 676



DATE PLOTTED = 3/21/2021 12:52:29 PM
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PLOT DATE = 3/31/2021	DATE - 3/3/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
 TINLEY PARK PROPOSED LIGHTING PLAN
 PUBLIC WORKS LIGHTING**

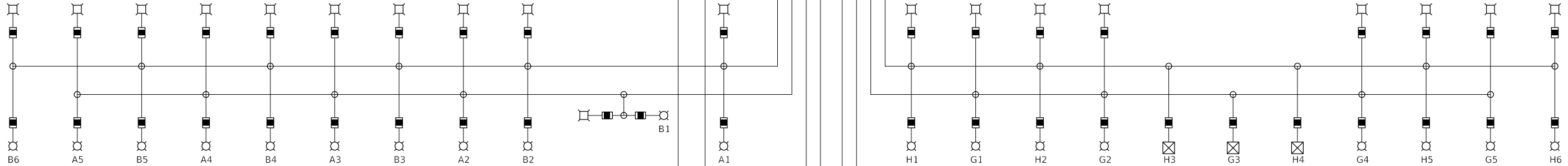
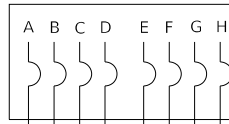
SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 4105+50 TO STA. 4110+50

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 677
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	

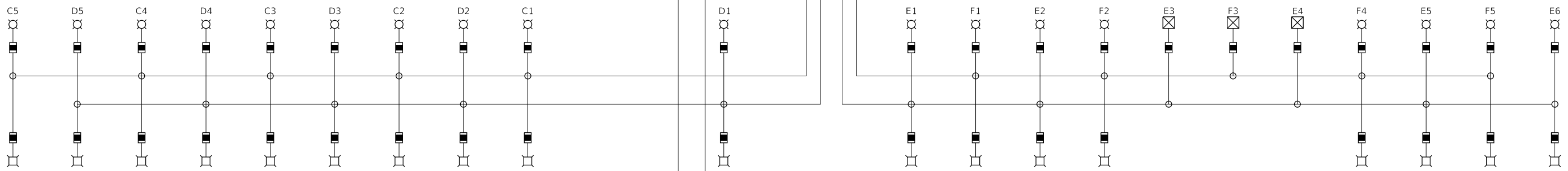


189TH ST.

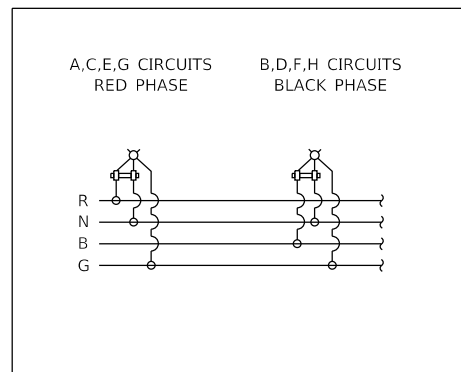
PROPOSED VILLAGE OF
TINLEY PARK LIGHTING
CONTROLLER "A"
120/240V



80TH AVE.



TYPICAL POLE WIRING



LEGEND

- EXISTING LUMINAIRE
- LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E(82W)
- LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G(149W)
- LUMINAIRE, LED, SPECIAL (27W)
- LUMINAIRE (SPECIAL) (50W)
- EXISTING FUSE
- FUSE, 3.0 AMP
- LUMINAIRE CIRCUIT
- CIRCUIT BREAKER
- CONNECTION

CIRCUIT	WATTS	AMPS @ 120V	
		RED PHASE	BLACK PHASE
A	545	4.54	
B	654		5.45
C	545	4.54	
D	545		4.54
E	536	4.47	
F	486		4.05
G	486	4.05	
H	536		4.47
SUBTOTAL	4,033	17.60	18.51
TOTAL AMPS @ 120V		36.11	

120V/240V, 1Ø, 3 WIRE, 60HZ

DATE PLOTTED = 2/26/2021 10:05:04 AM
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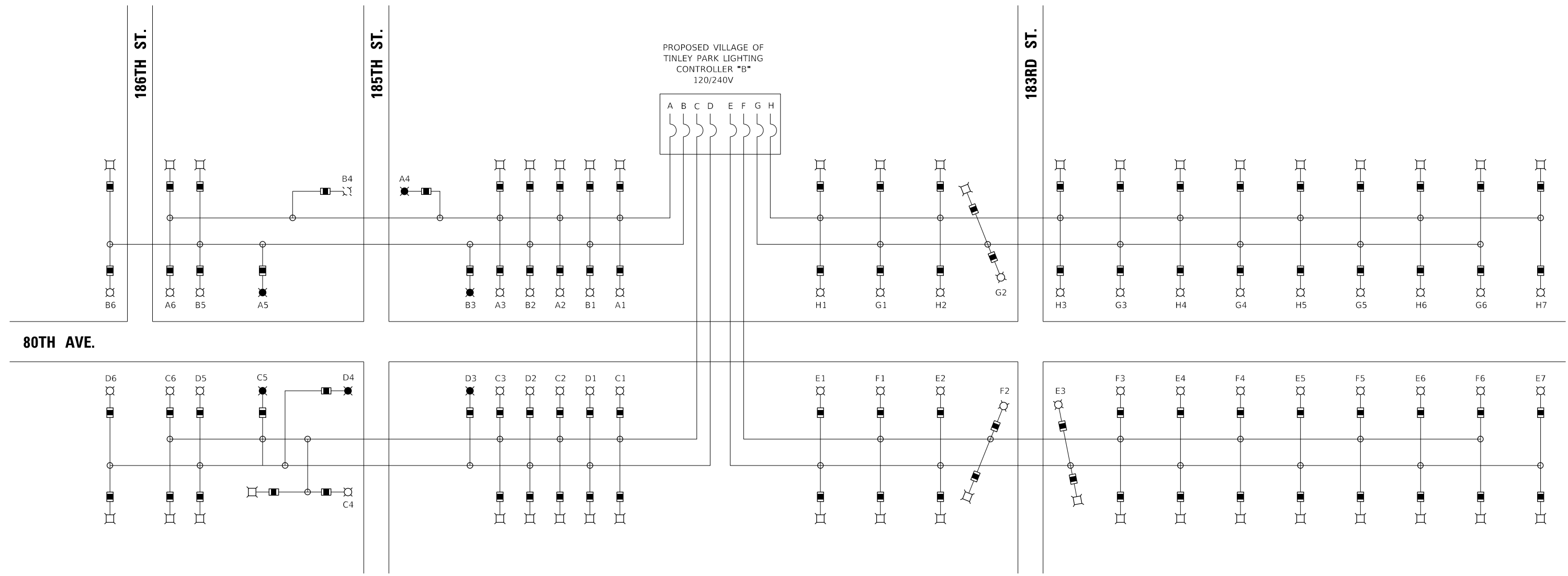
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	DRAWN - MJS	REVISED -
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE
TINLEY PARK SINGLE LINE DIAGRAM
CONTROLLER A

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	679
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



80TH AVE.

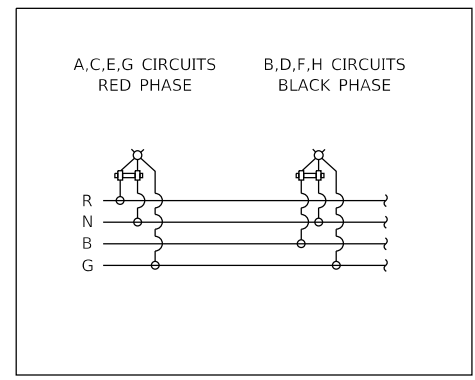
186TH ST.

185TH ST.

183RD ST.

PROPOSED VILLAGE OF
TINLEY PARK LIGHTING
CONTROLLER "B"
120/240V

TYPICAL POLE WIRING



LEGEND

- EXISTING LUMINAIRE (250W)
- LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E(82W)
- LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G(149W)
- LUMINAIRE, LED, SPECIAL (27W)
- EXISTING FUSE
- FUSE, 3.0 AMP
- A1 LUMINAIRE CIRCUIT
- CIRCUIT BREAKER
- CONNECTION

CIRCUIT	WATTS	AMPS @ 120V	
		RED PHASE	BLACK PHASE
A	734	6.12	
B	885		7.38
C	694	5.78	
D	734		6.12
E	763	6.36	
F	654		5.45
G	654	5.45	
H	763		6.36
SUBTOTAL	5,227	23.71	25.31
TOTAL AMPS @ 120V		49.02	

120V/240V, 1Ø, 3 WIRE, 60HZ

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

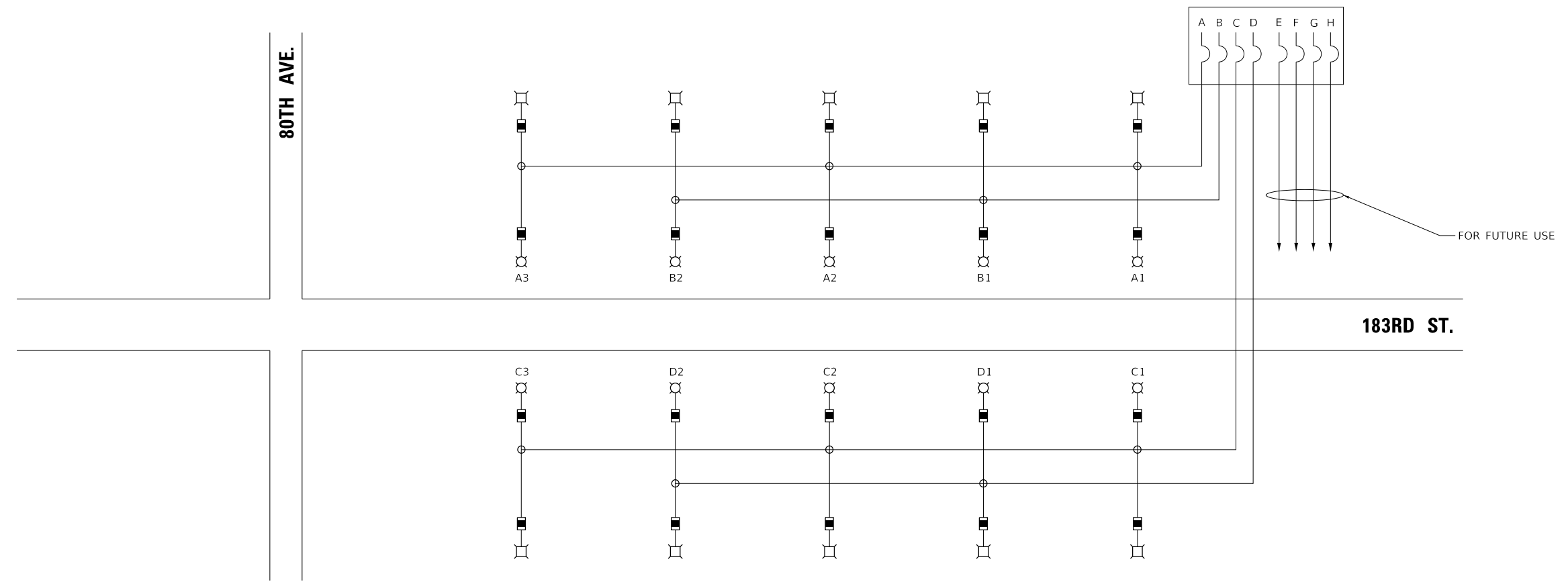
80TH AVENUE
TINLEY PARK SINGLE LINE DIAGRAM
CONTROLLER B

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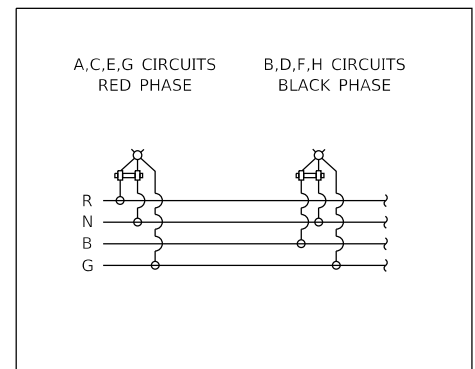
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CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



PROPOSED VILLAGE OF
TINLEY PARK LIGHTING
CONTROLLER "C"
120/240V



TYPICAL POLE WIRING



LEGEND

- EXISTING LUMINAIRE
- LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E(82W)
- LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G(149W)
- LUMINAIRE, LED, SPECIAL (27W)
- EXISTING FUSE
- FUSE, 3.0 AMP
- A1 LUMINAIRE CIRCUIT
- CIRCUIT BREAKER
- CONNECTION

CIRCUIT	WATTS	AMPS @ 120V	
		RED PHASE	BLACK PHASE
A	327	2.73	
B	218		1.82
C	327	2.73	
D	218		1.82
E		-	
F	-		-
G	-	-	
H	-		-
SUBTOTAL	1,090	5.46	3.64
TOTAL AMPS @ 120V		9.10	

120V/240V, 1Ø, 3 WIRE, 60HZ

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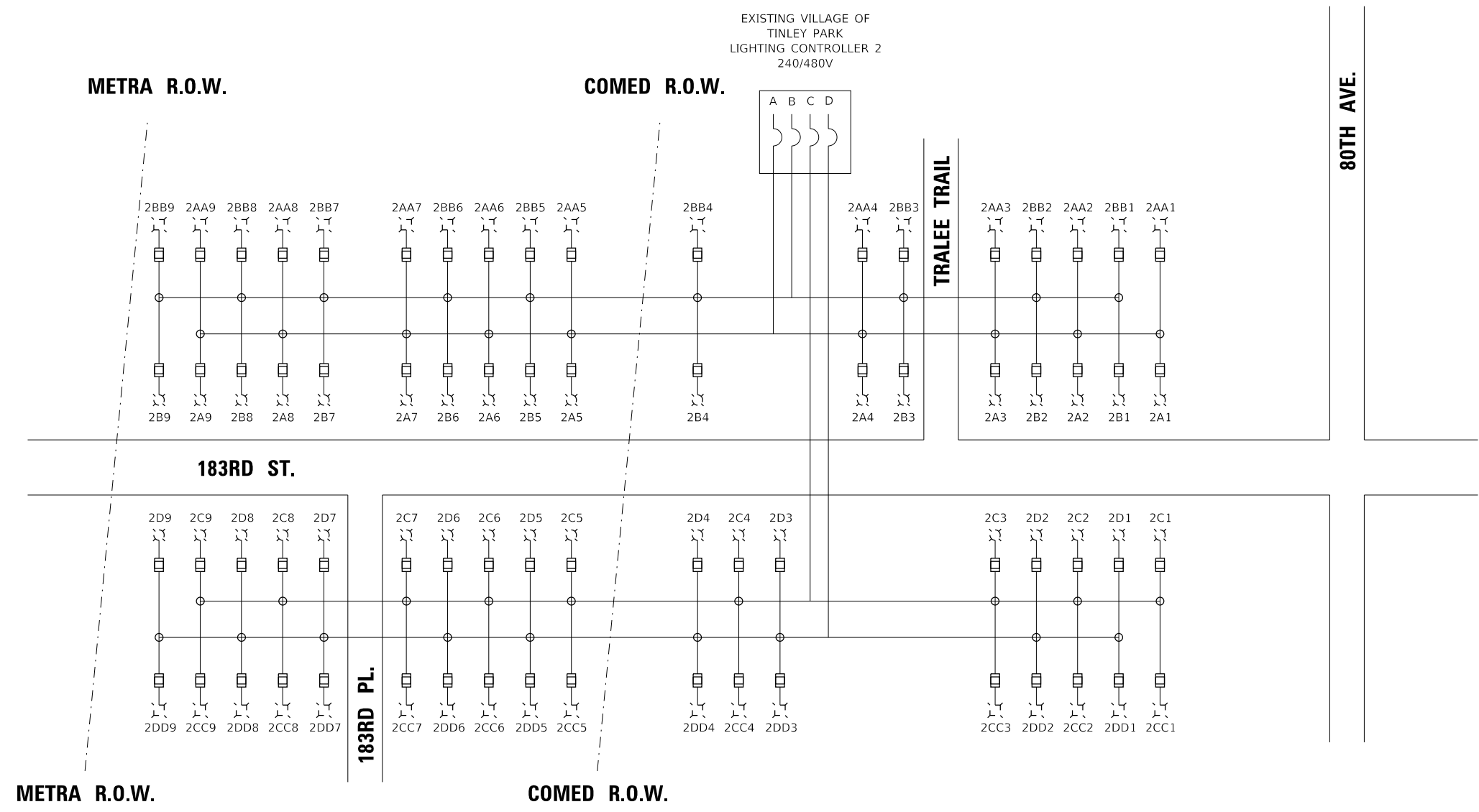
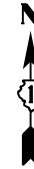
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK SINGLE LINE DIAGRAM
CONTROLLER C**

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

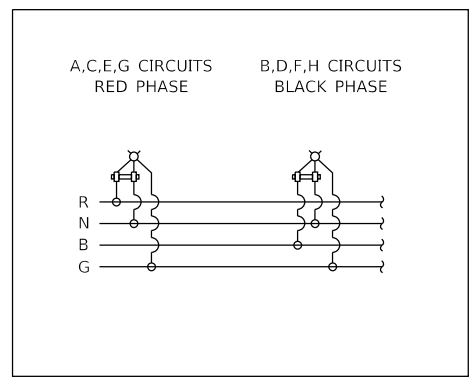
F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 681
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



LEGEND

- EXISTING LUMINAIRE (250W)
- EXISTING PEDESTRIAN LUMINAIRE (70W)
- LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E(82W)
- LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G(149W)
- LUMINAIRE, LED, SPECIAL (27W)
- EXISTING 3.5 AMP FUSE FOR 250W HPS LIGHT OR EXISTING 1.5 AMP FUSE FOR 70W HPS LIGHT
- FUSE, 3.0 AMP
- 2A1 CONTROLLER NUMBER AND LUMINAIRE CIRCUIT
- CIRCUIT BREAKER
- CONNECTION

TYPICAL POLE WIRING



CIRCUIT	WATTS	AMPS @ 240V	
		RED PHASE	BLACK PHASE
A	2,700	11.25	
AA	756		3.15
B	2,700	11.25	
BB	756		3.15
C	2,700	11.25	
CC	756		3.15
D	2,700	11.25	
DD	756		3.15
SUBTOTAL	13,824	45.00	12.60
TOTAL AMPS @ 240V		57.60	

240V/480V, 1Ø, 3 WIRE, 60HZ

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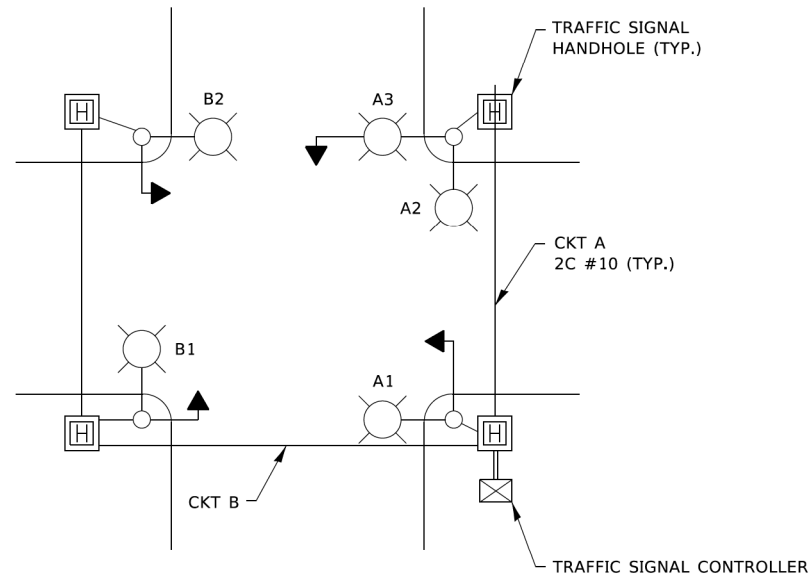
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

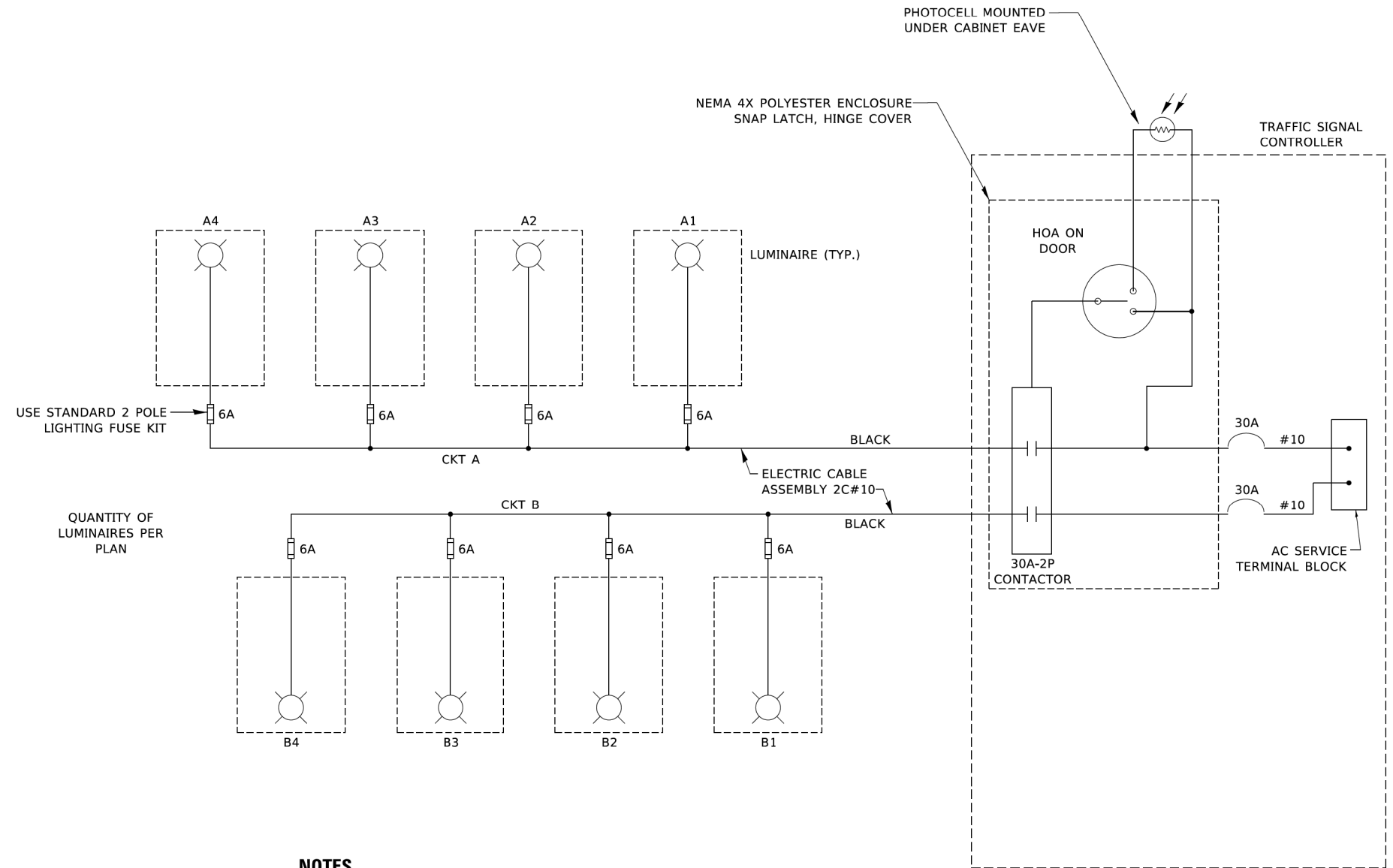
**80TH AVENUE
TINLEY PARK SINGLE LINE DIAGRAM
CONTROLLER 2**

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

F.A.U. RTE. 2755	SECTION 06-00122-16-FP	COUNTY WILL	TOTAL SHEETS 1113	SHEET NO. 683
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	

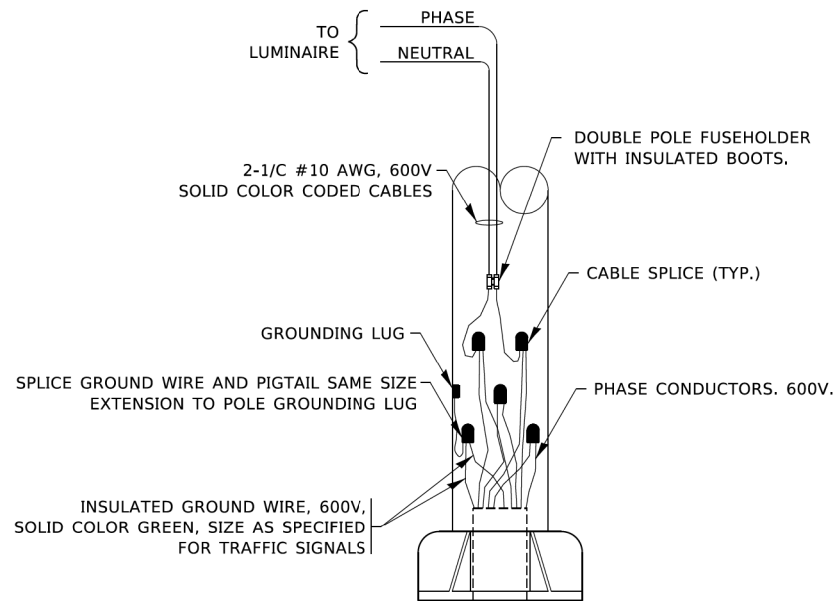


TYPICAL LIGHTING CIRCUIT
(NOT TO SCALE)



NOTES

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. MULTI-CONDUCTOR CABLE ASSEMBLY 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. ALL CONTROLLERS TO HAVE TWO CIRCUIT BREAKERS.
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



COMBINATION POLE WIRING DETAIL
(NOT TO SCALE)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

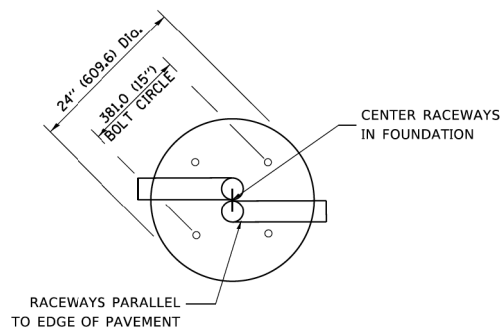
COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC

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

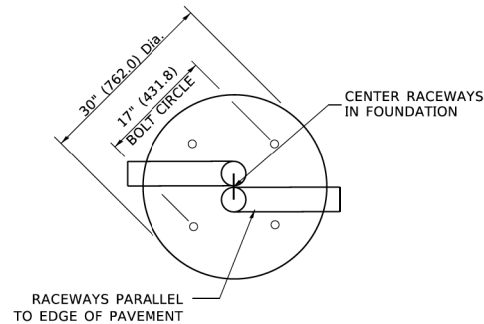
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BE-240		CONTRACT NO. 61G73		
ILLINOIS FED. AID PROJECT				

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)



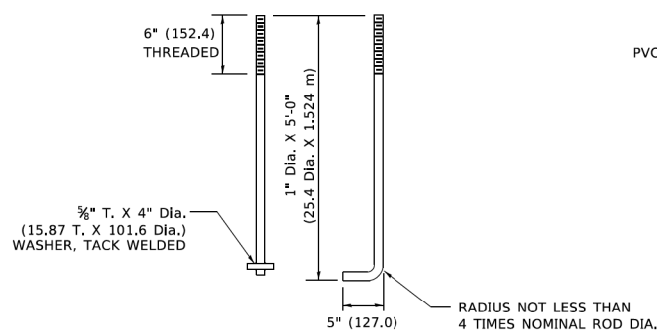
TOP VIEW



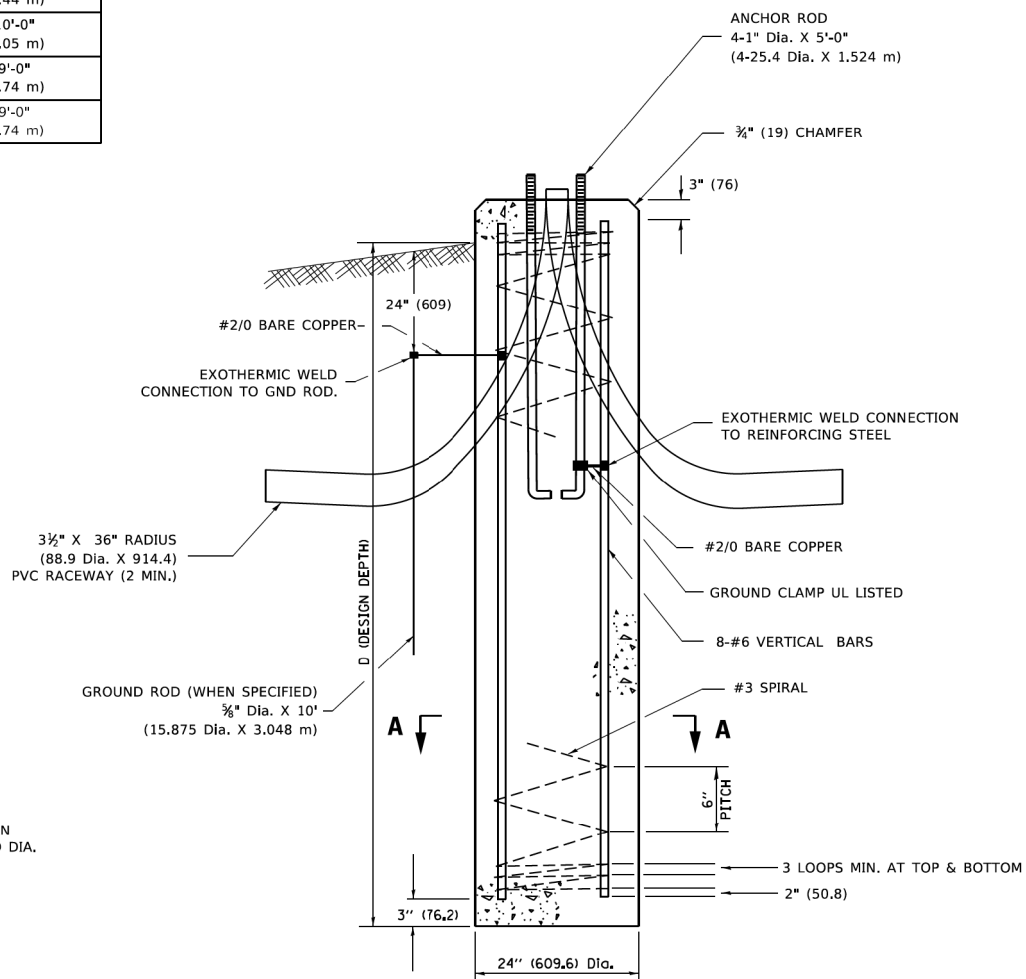
TOP VIEW

NOTES

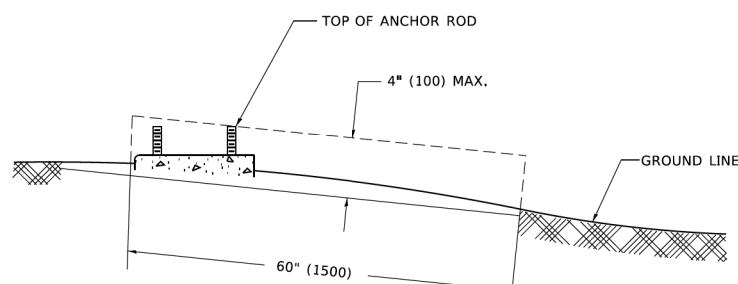
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, 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" (69.9 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.



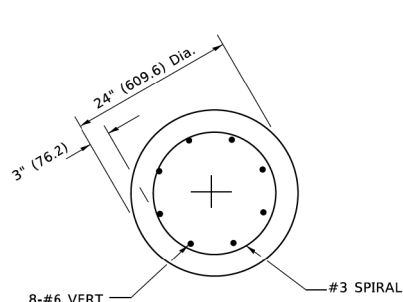
ANCHOR ROD DETAIL



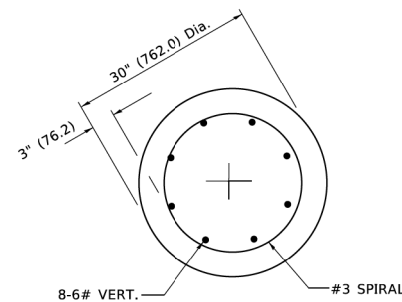
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47' 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	686
BE-301		CONTRACT NO. 61G73		
ILLINOIS FED. AID PROJECT				

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	#3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	#3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	#3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	#3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	#3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	#3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	#3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	#3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	#3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	#3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from CL-MED'N FT.	LENGTH of BAR a FT.
UP TO 24" (609.6 mm)	3'-3" (0.991 m)	#6 x 5'-3" (1.600 m)
27" (685.8 mm) TO 36" (914.4 mm)	3'-9" (1.143 m)	5'-9" (1.753 m)
42" (1066.8 mm) TO 48" (1219.2 mm)	4'-6" (1.372 m)	6'-6" (1.981 m)
54" (1371.6 mm) TO 60" (1524.0 mm)	5'-0" (1.524 m)	7'-0" (2.134 m)
66" (1676.4 mm) TO 72" (1828.8 mm)	5'-6" (1.676 m)	7'-6" (2.286 m)

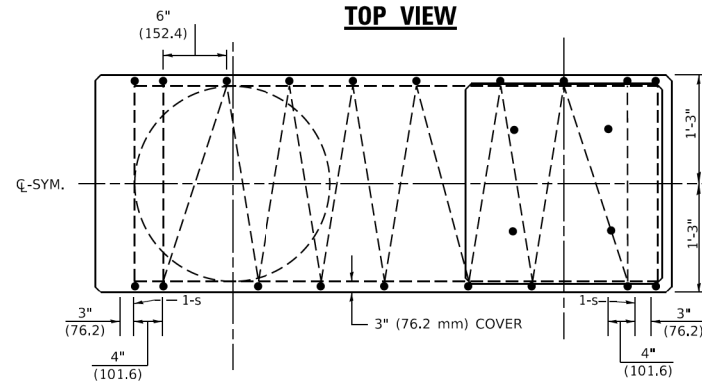
BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2.438 m)	□
s ₁	3	3	7'-6" (2.286 m)	□
v ₁	8	6	2'-9" (0.838 m)	—
v ₂				

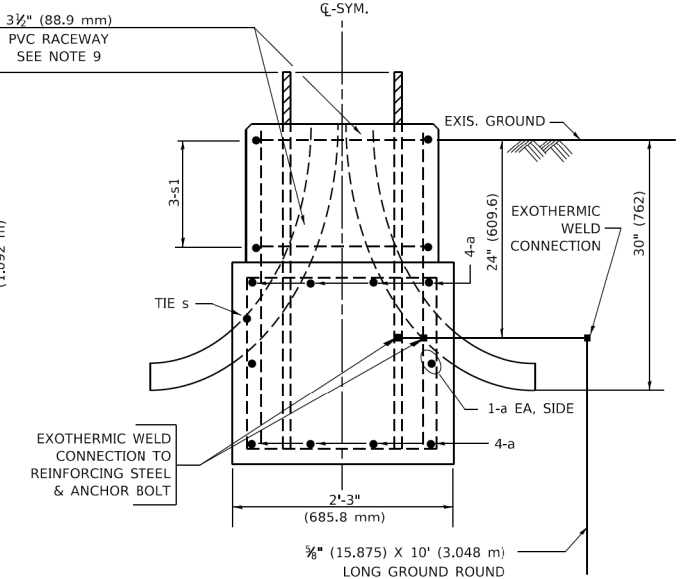
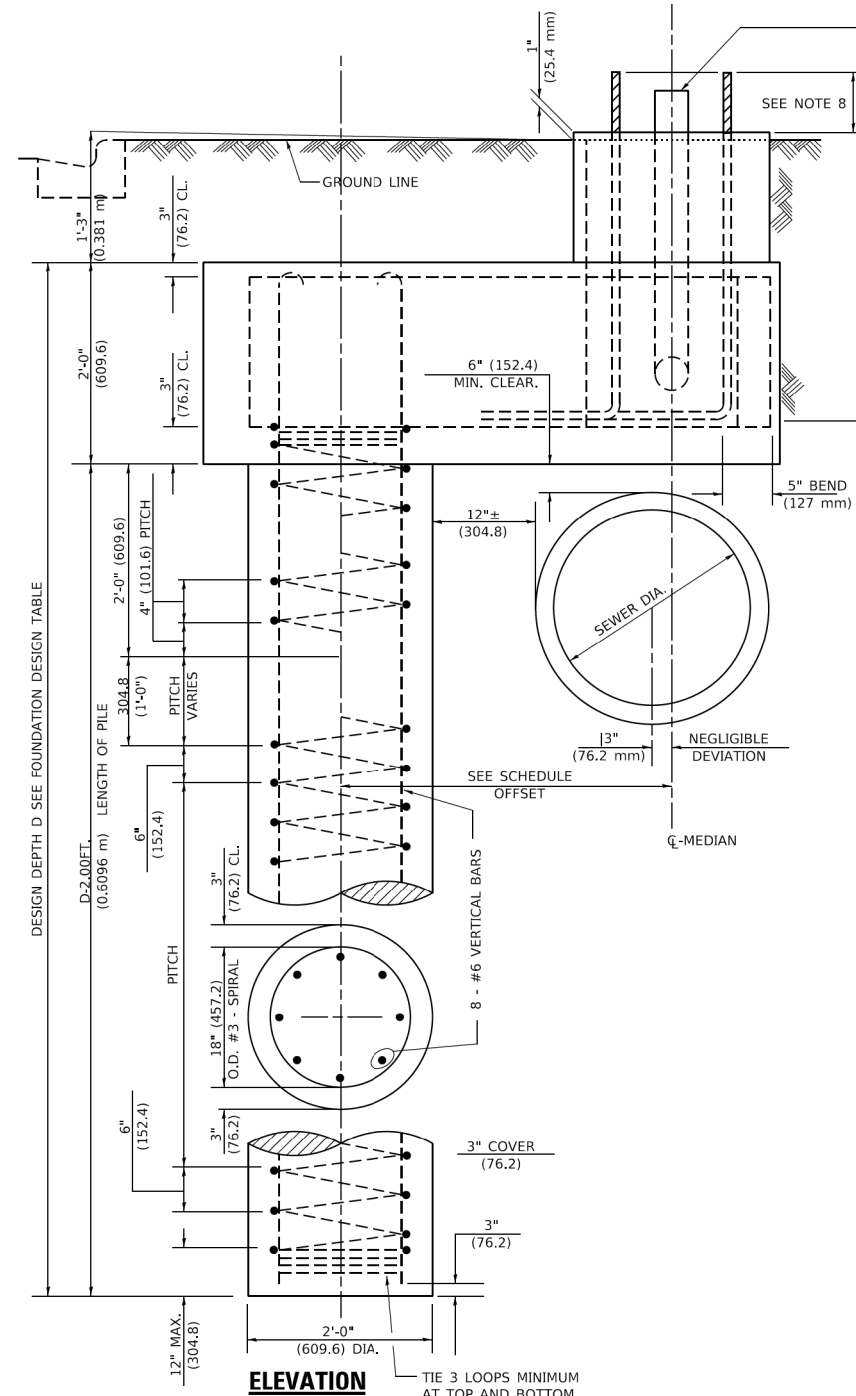
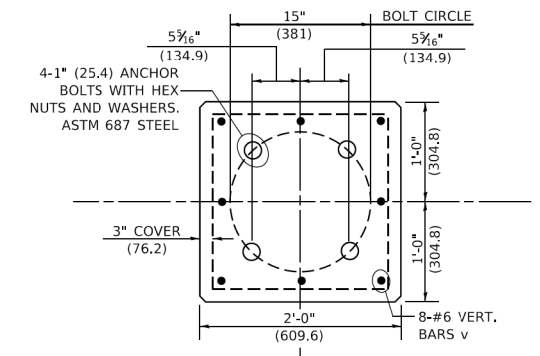
NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- 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 BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- 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.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 23#4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.

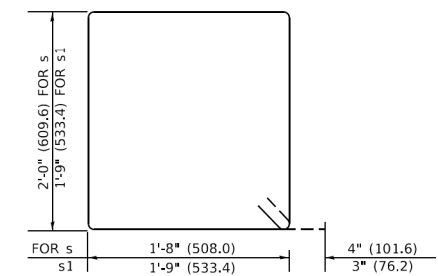
PLAN-CAP BEAM TOP VIEW



TOP VIEW



END VIEW



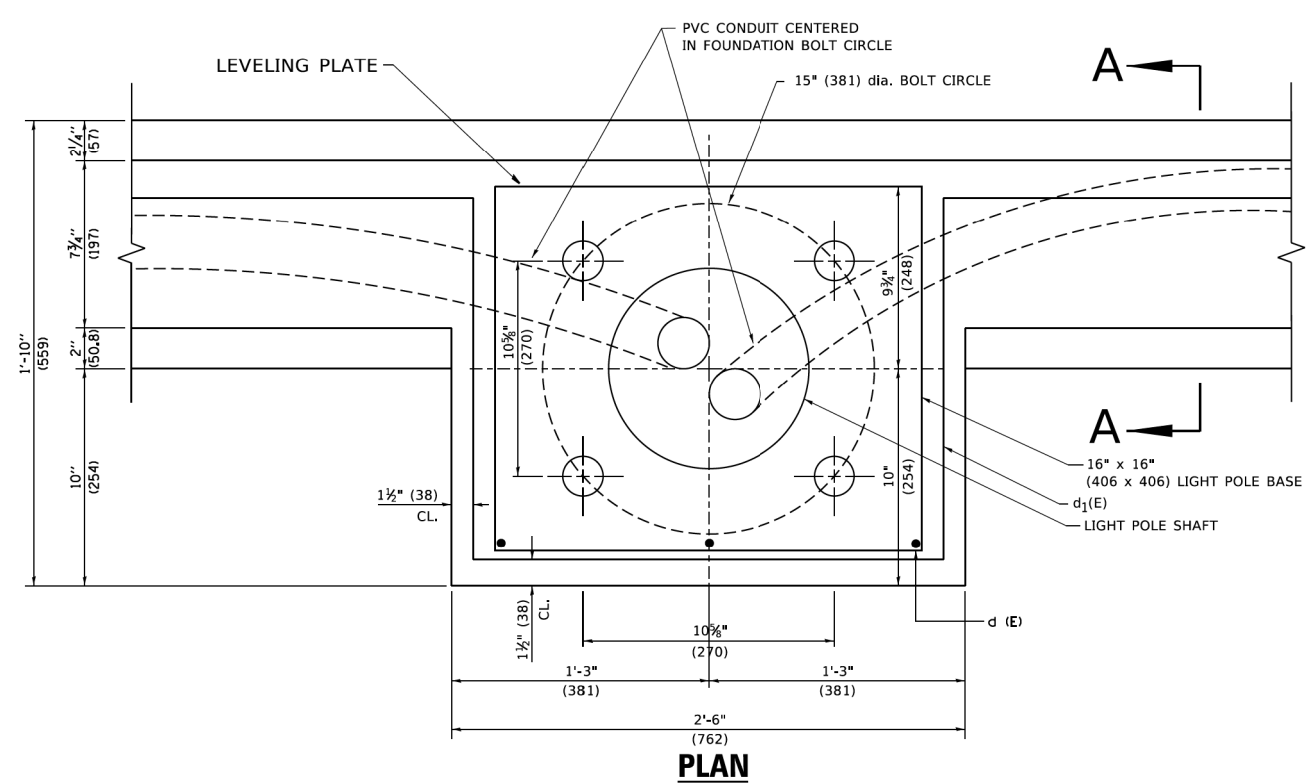
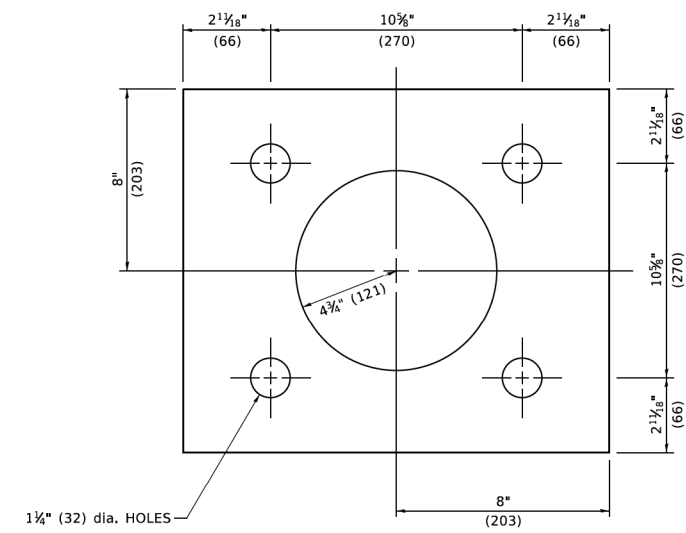
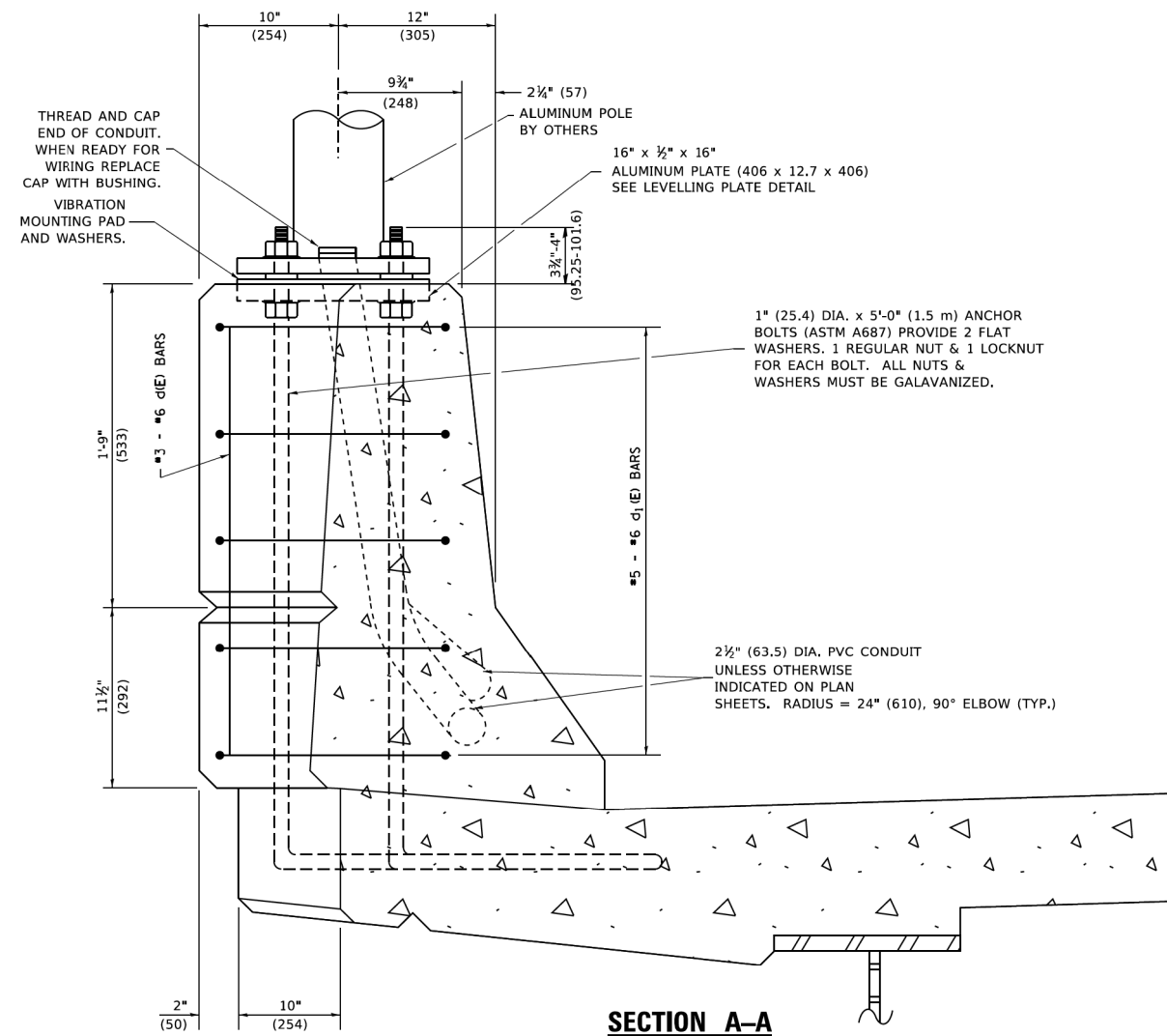
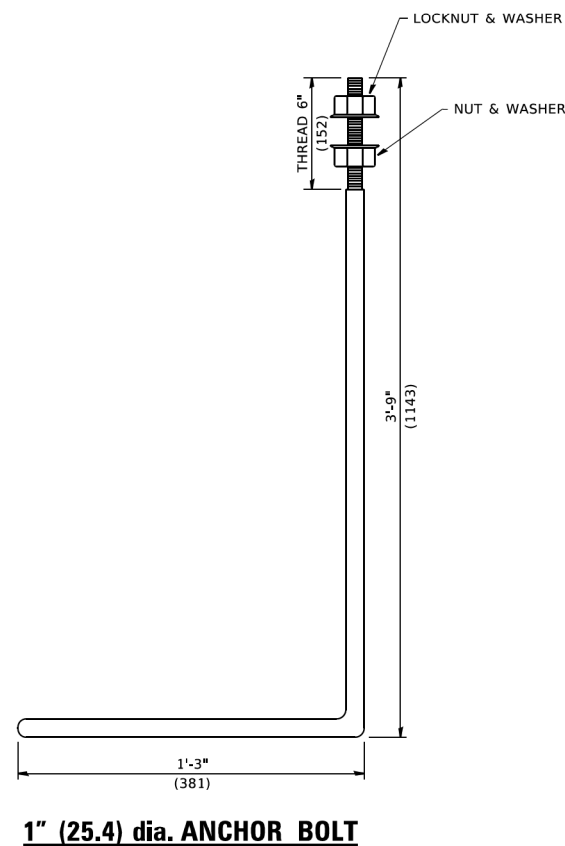
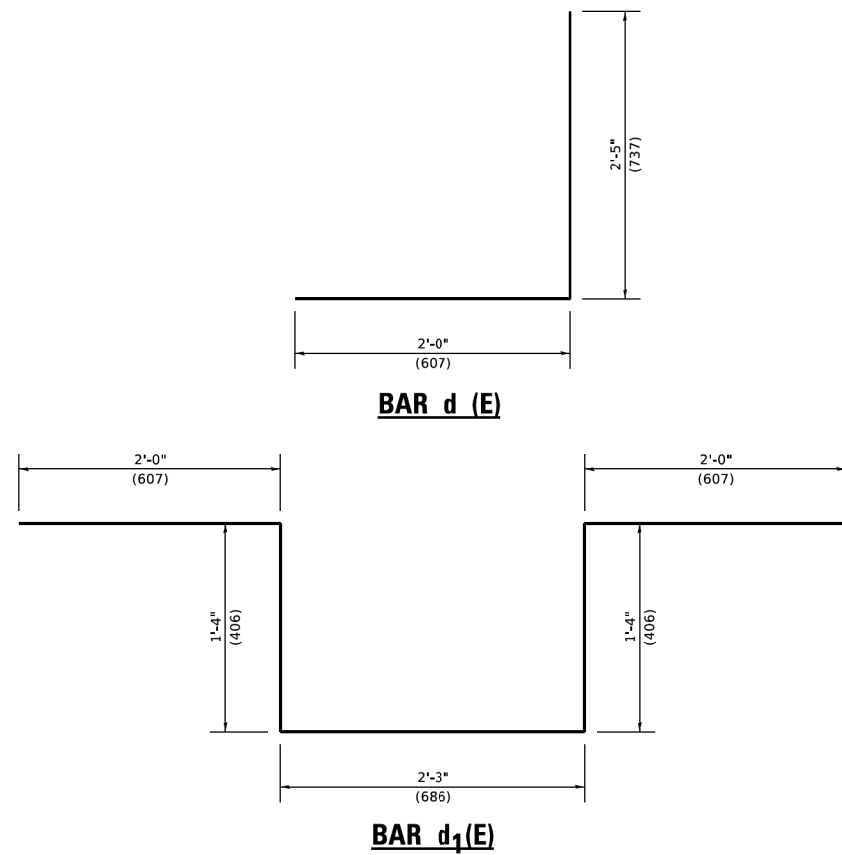
BARS s, s1

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION OFFSET

40' (12.192m) TO 47' 12" (14.478m) M.H., 15" (381mm) BOLT CIRCLE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	687
BE310		CONTRACT NO. 61G73		
ILLINOIS FED. AID PROJECT				



- NOTES**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. LEVEL LIGHT POLE PLATES, USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE TOP OF THE PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
 3. THE COST OF ANCHOR BOLTS, CONDUIT, LEVELLING PLATE AND FOUNDATION IS INCLUDED IN THE COST OF THE BRIDGE STRUCTURE.

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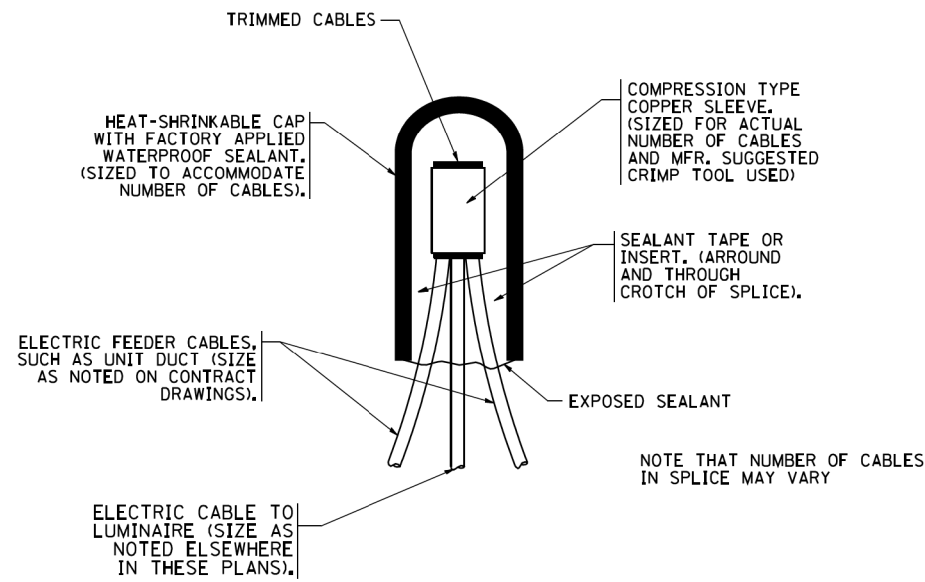
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	DRAWN -	REVISED -
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PLOT DATE = 4/19/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHT POLE MOUNTED ON CONCRETE PARAPET WALL
15" (381 mm) BOLT CIRCLE**

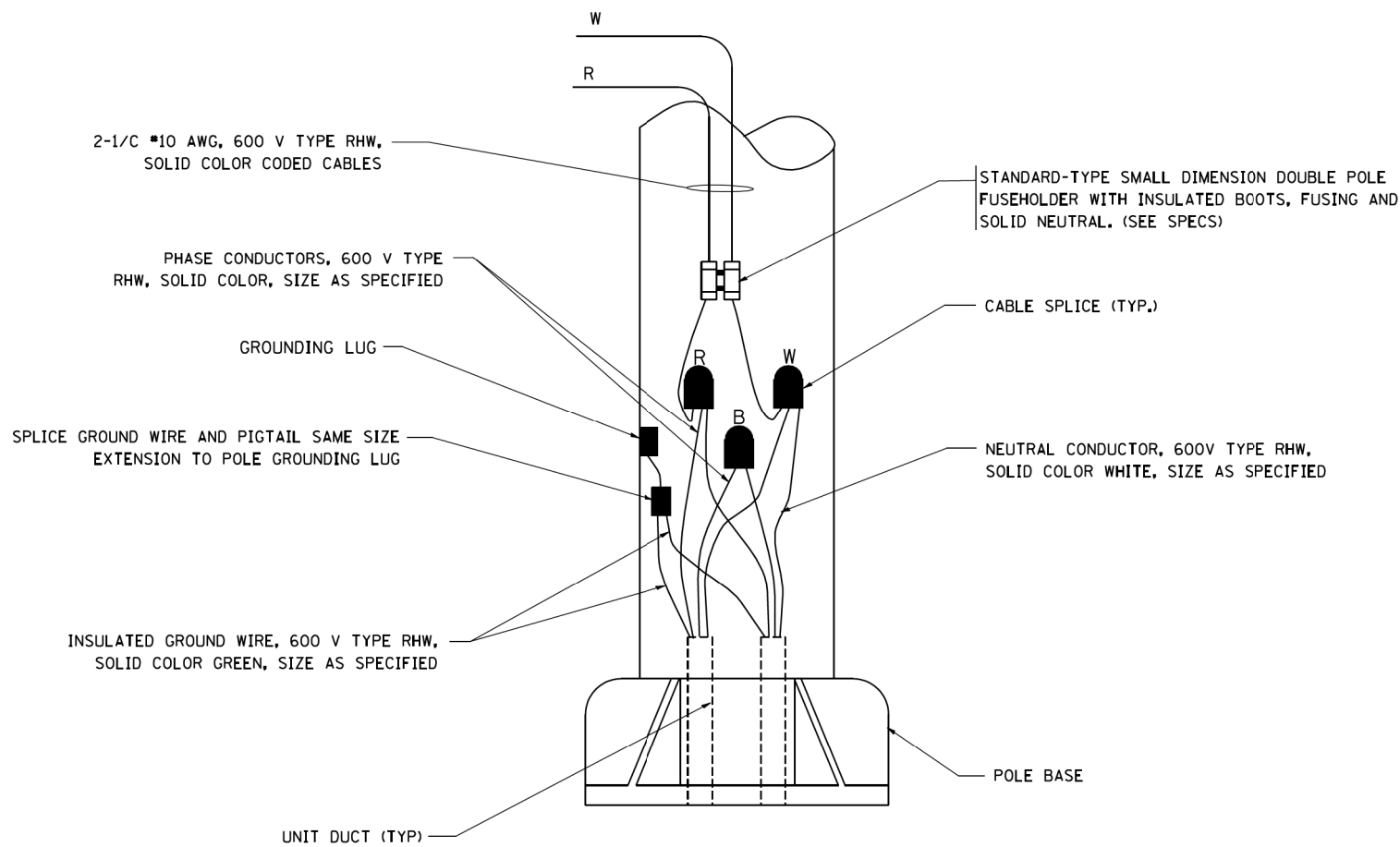
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BE-330		CONTRACT NO. 61G73		
ILLINOIS FED. AID PROJECT				

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



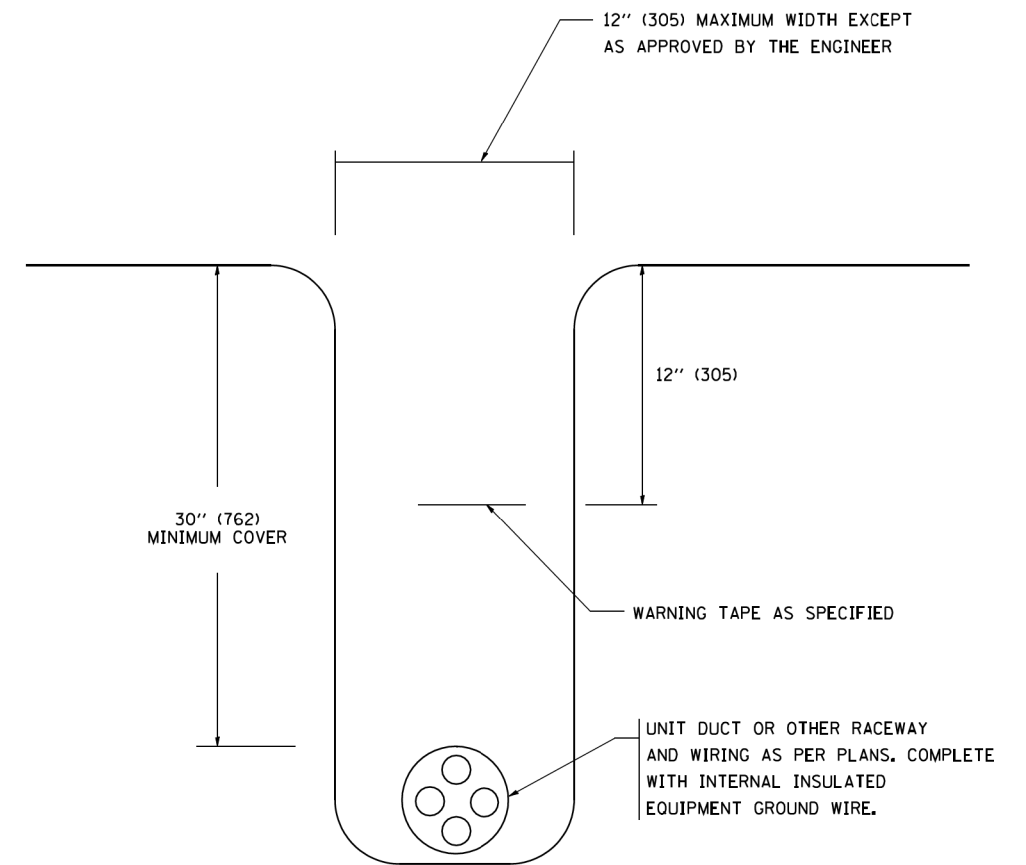
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

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W:\diststd\22x34\be702.dgn

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DATE -

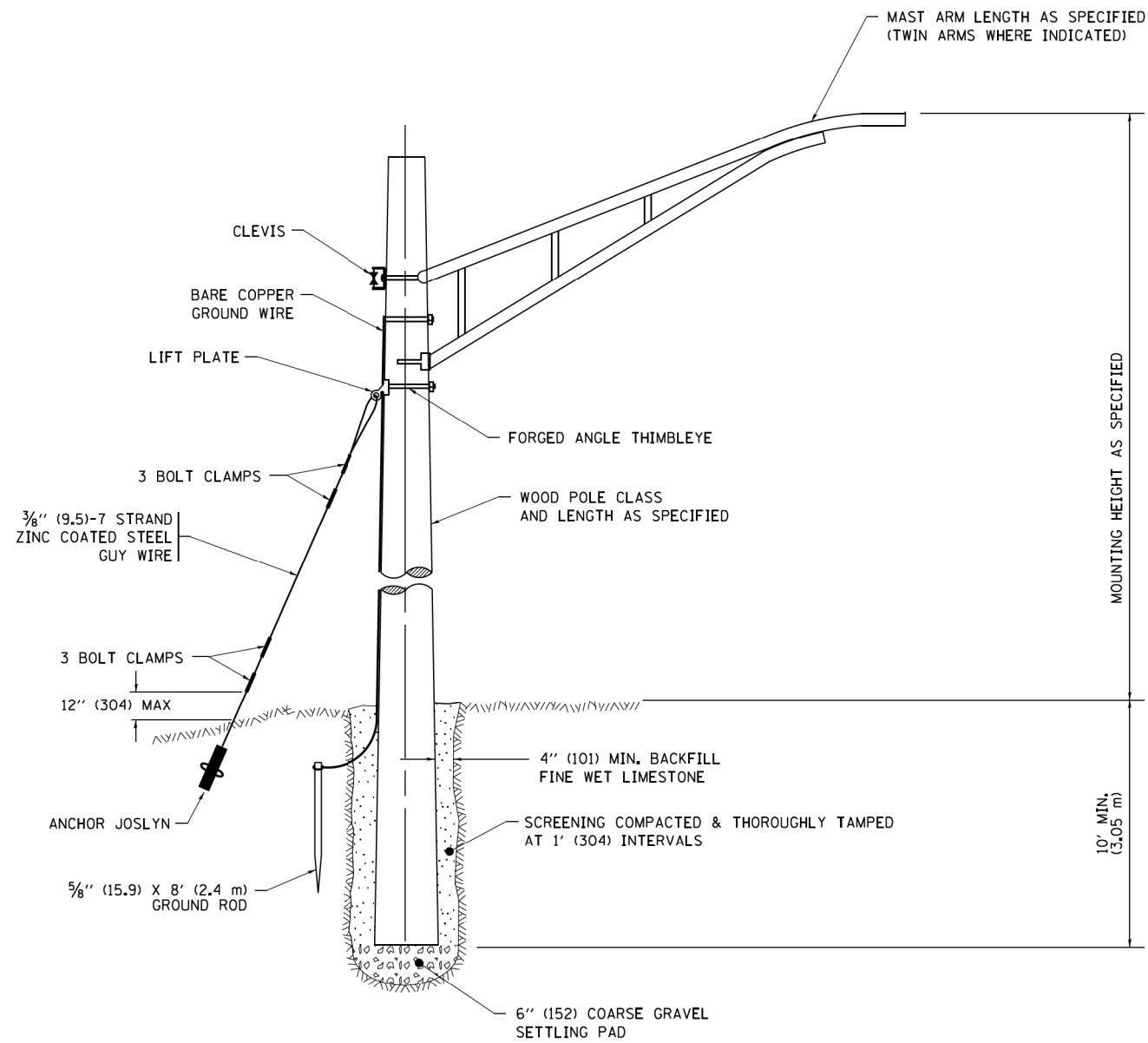
REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

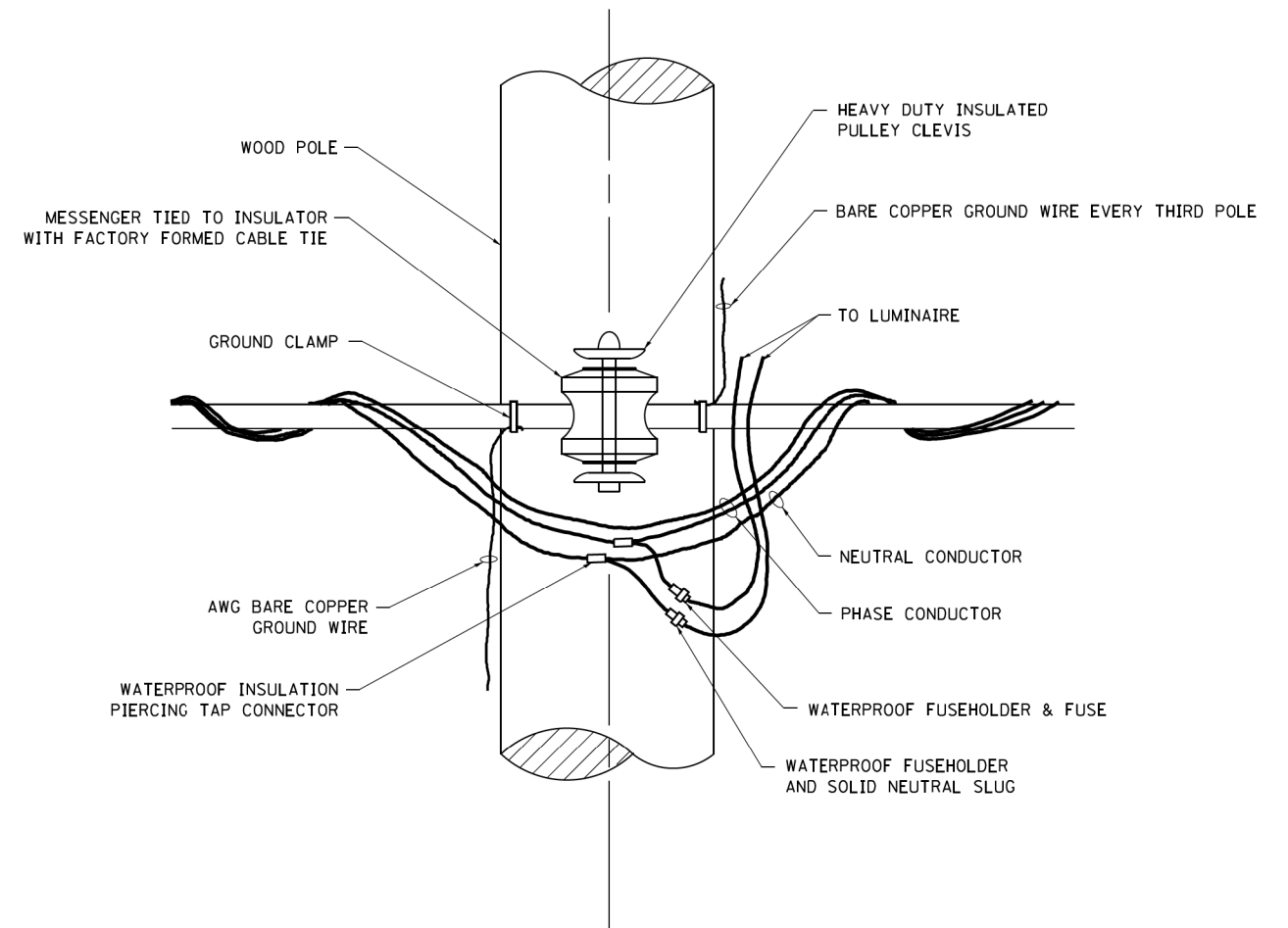
**MISC. ELECTRICAL DETAILS
SHEET A**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	689
BE-702			CONTRACT NO. 61G73	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TEMPORARY LIGHT POLE DETAIL

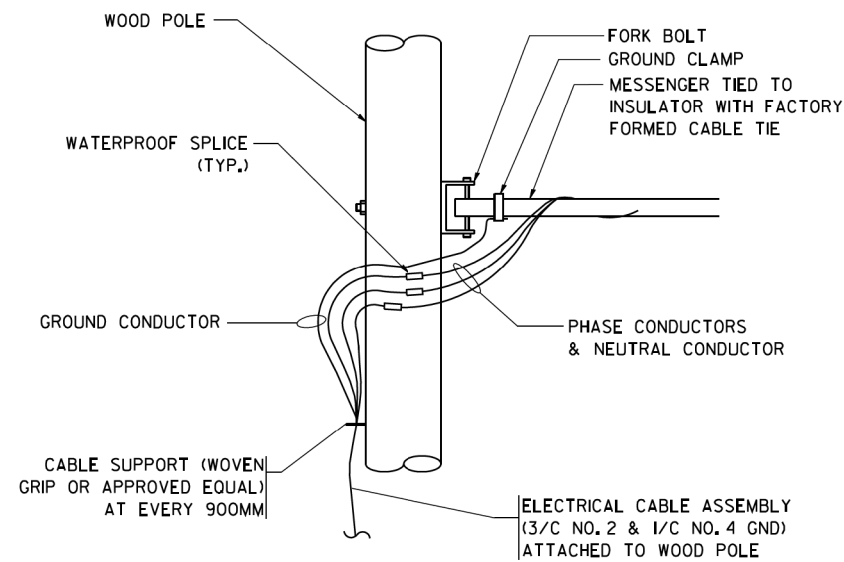


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

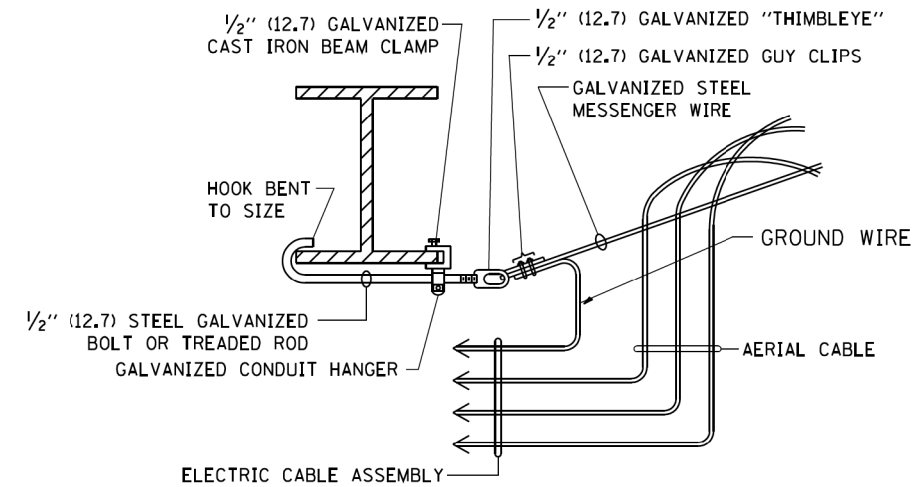
NOTE:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHT POLE DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBJINTEGallinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\Dist 1\DRAWING\CADData\CADsheets\be800.dgn	PLOT SCALE = 50.000' / 1"	CHECKED -	REVISED - R.T. 07-26-16					2755	06-00122-16-FP	WILL	1113	690
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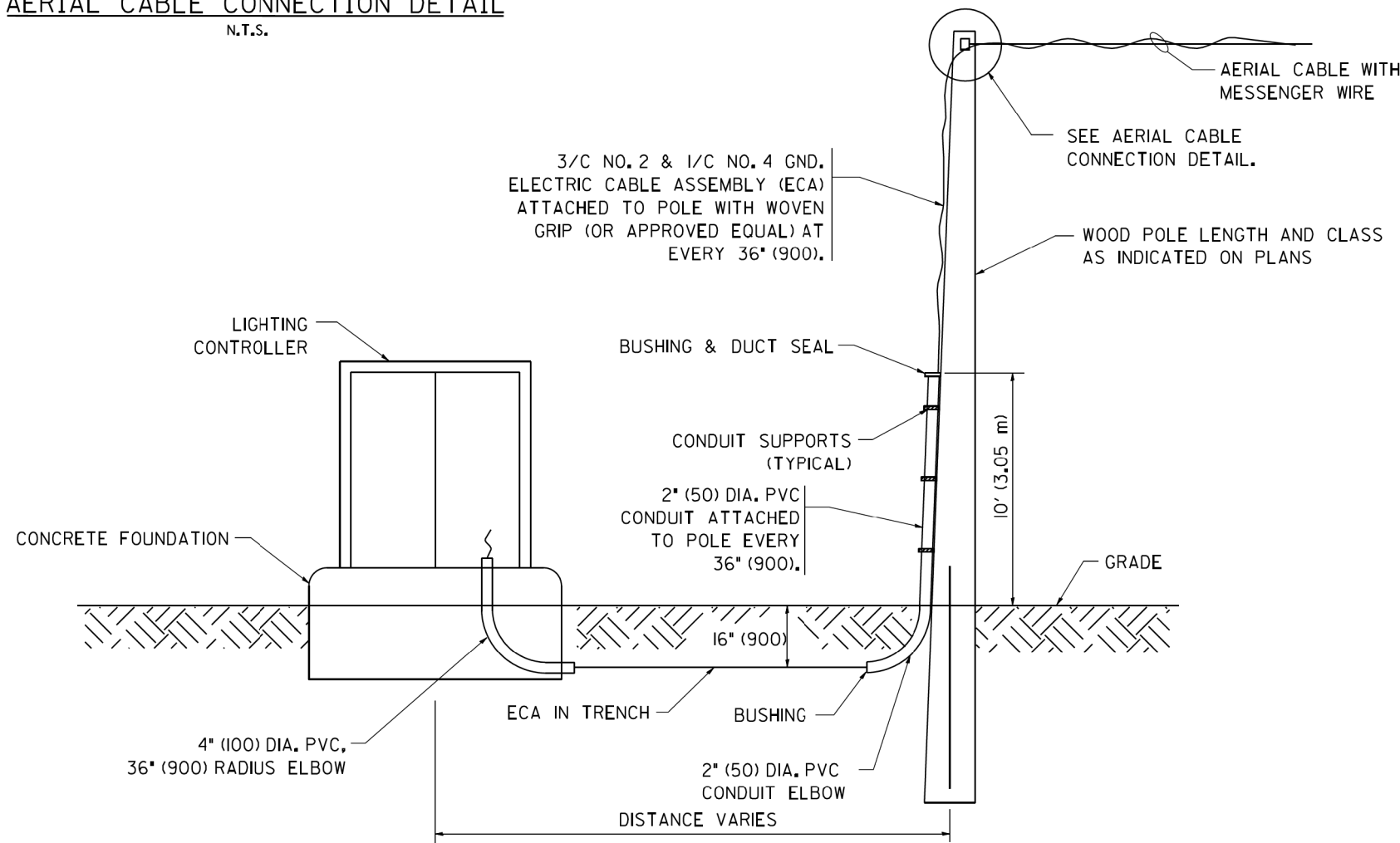
AERIAL CABLE CONNECTION DETAIL
N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE
NOT TO SCALE

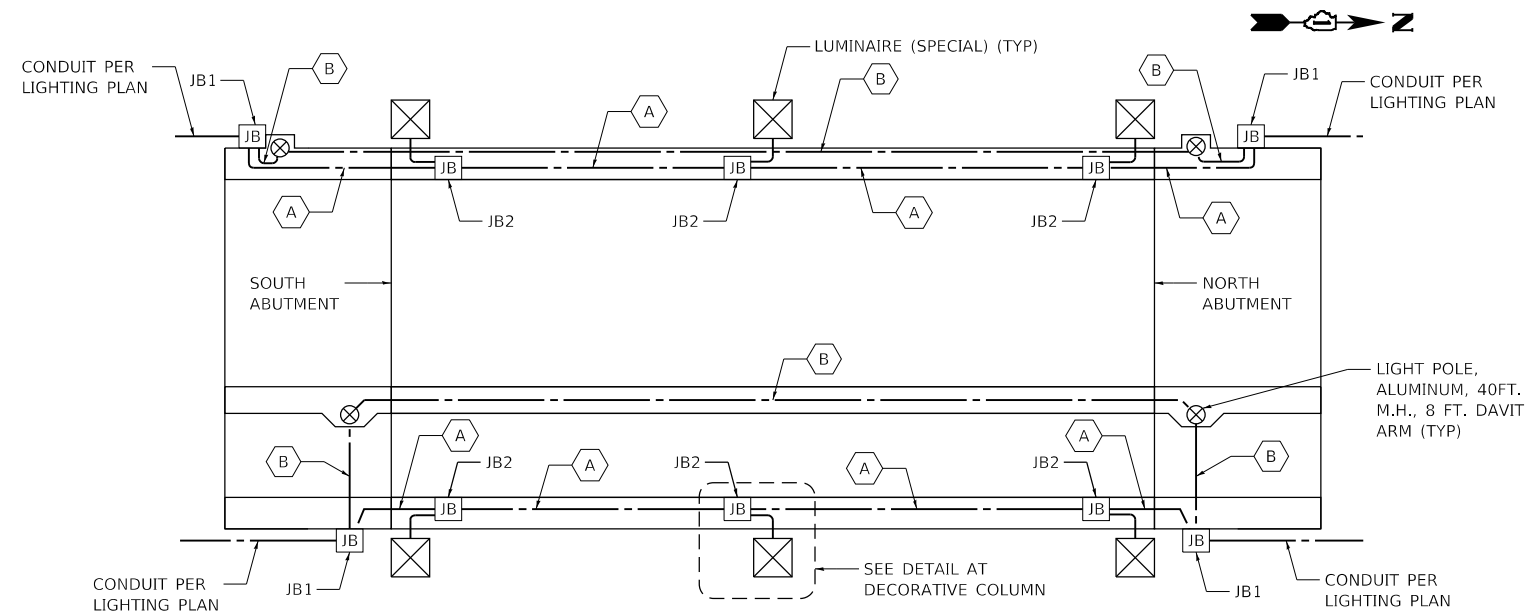
NOTES:

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.



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL
N.T.S.

FILE NAME = W:\dststd\22x34\be001.dgn	USER NAME = goglianob	DESIGNED - DRAWN -	REVISED - 08-08-03 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY AERIAL CABLE INSTALLATION			F.A. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2755	06-00122-16-FP	WILL	1113	691
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								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



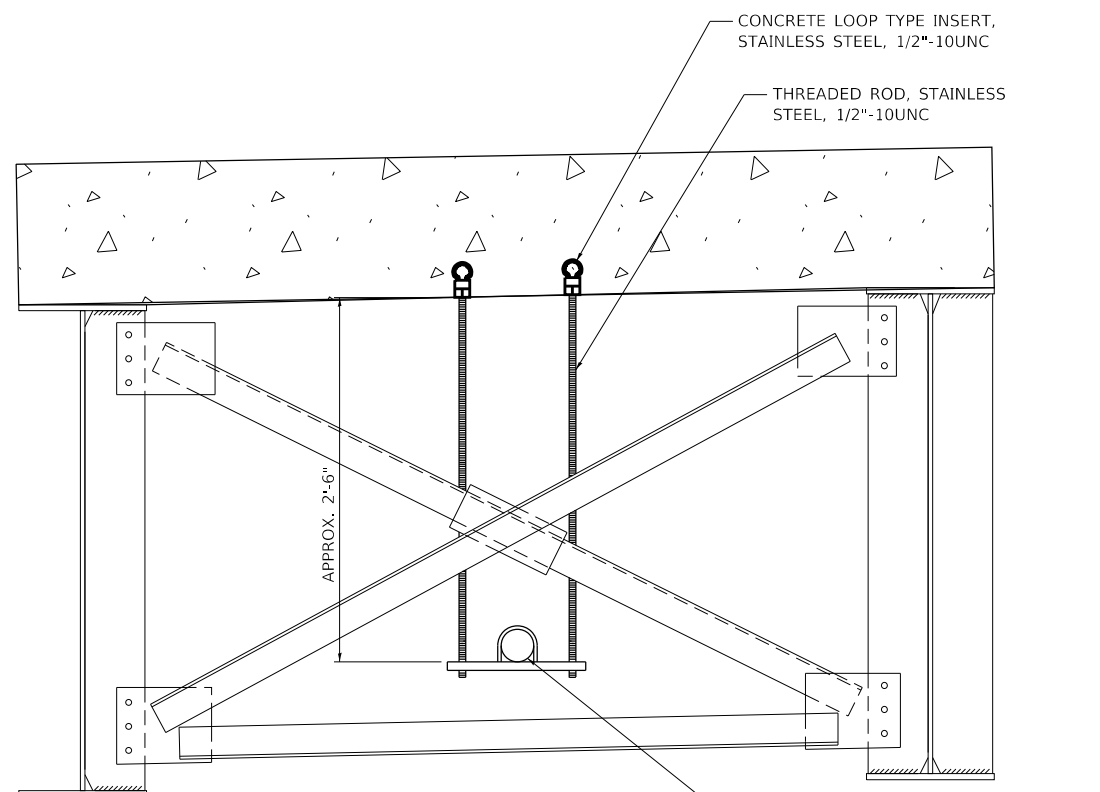
JUNCTION BOX SCHEDULE

JB1	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
JB2	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12" X 12" X 8"

CONDUIT & CABLE LEGEND

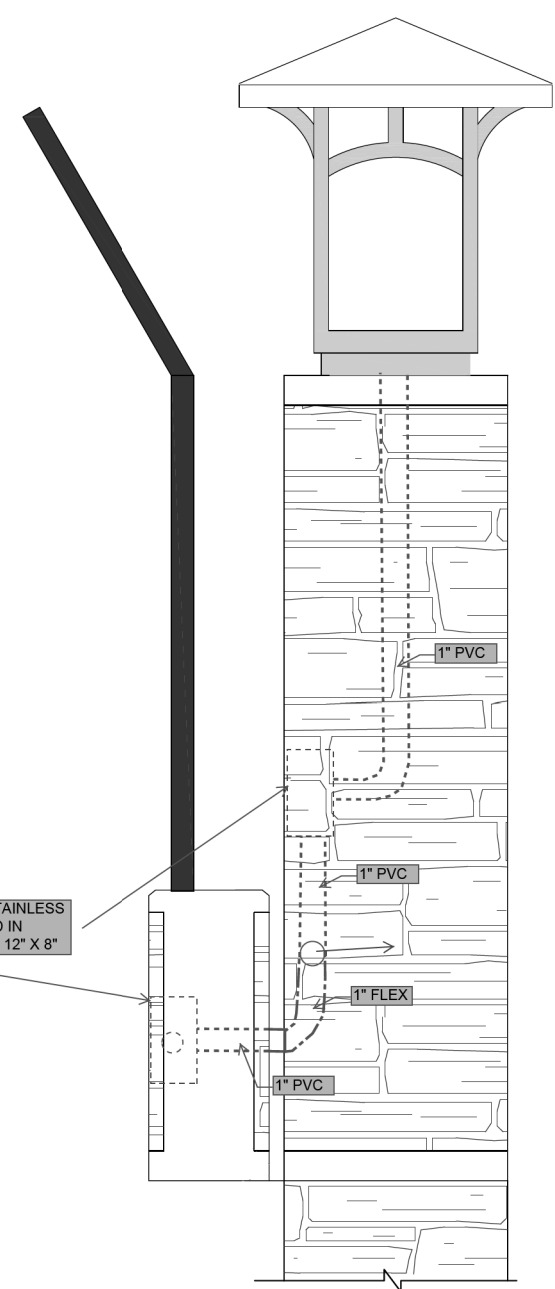
- A CONDUIT EMBEDDED IN STRUCTURE, 1" DIA., PVC WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 AND 1/C NO. 10 GROUND
- B CONDUIT EMBEDDED IN STRUCTURE, 1 1/4" DIA., PVC WITH ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 4 AND 1/C NO. 6 GROUND

**80TH AVENUE OVER I-80
BRIDGE LIGHTING SCHEMATIC**

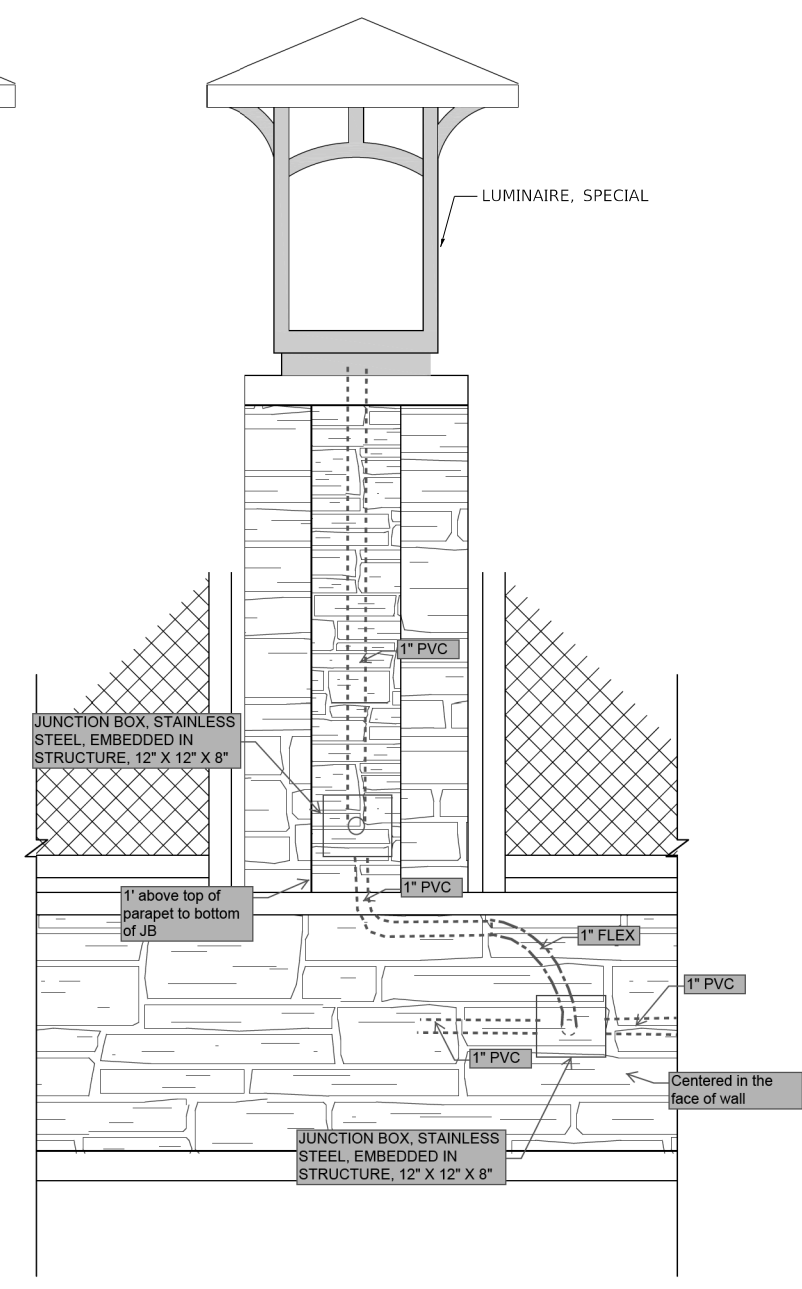


**CONDUIT ATTACHED TO STRUCTURE
ROUTING THROUGH CROSSFRAME**

JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12" X 12" X 8"

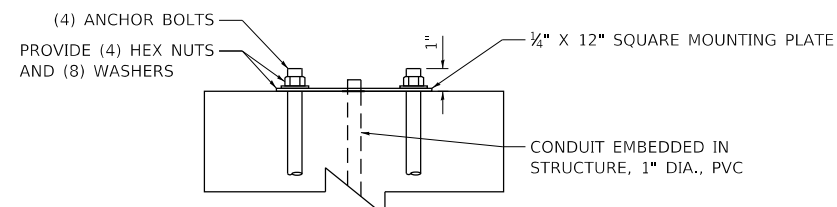


SIDE ELEVATION AT EAST SIDE
(MULTI-USE PATH SIDE)

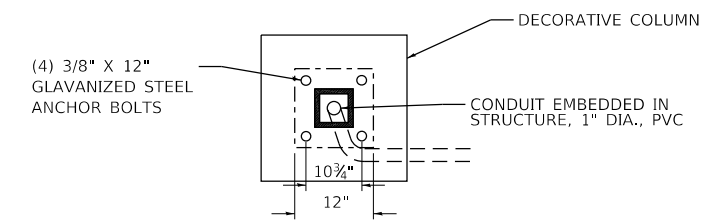


MULTI-PATH SIDE ELEVATION

**DECORATIVE COLUMN DETAIL
80TH AVENUE OVER I-80**



ELEVATION VIEW AT COLUMN
(NOT TO SCALE)



PLAN VIEW AT COLUMN
(NOT TO SCALE)

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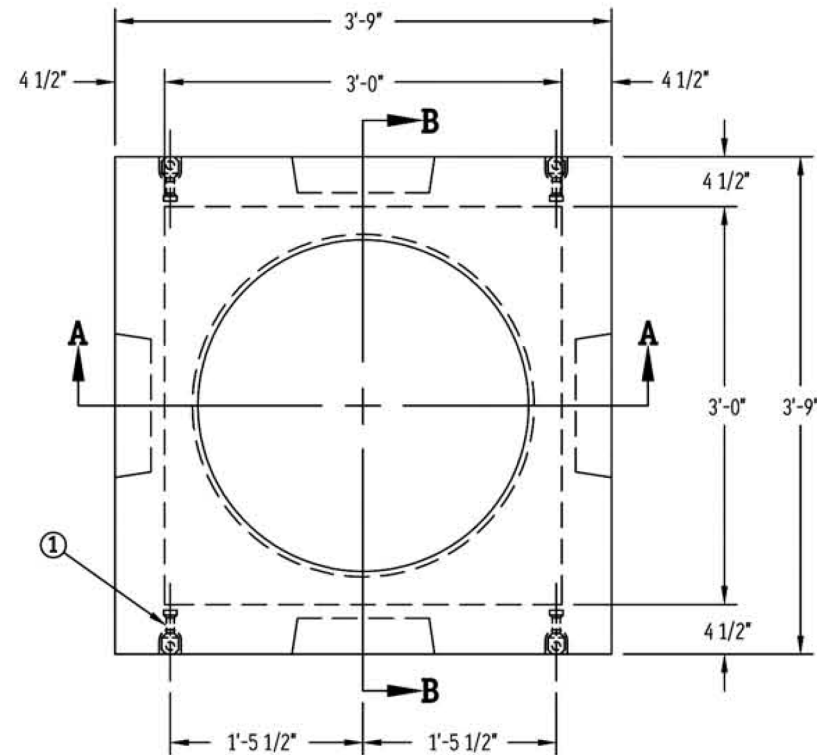
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	DRAWN - MJS	REVISED -
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK LIGHTING DETAIL**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	692
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



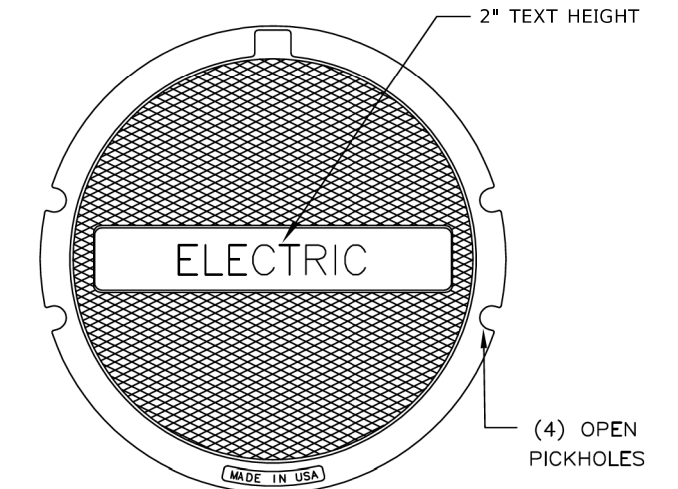
PLAN VIEW

LEGEND:

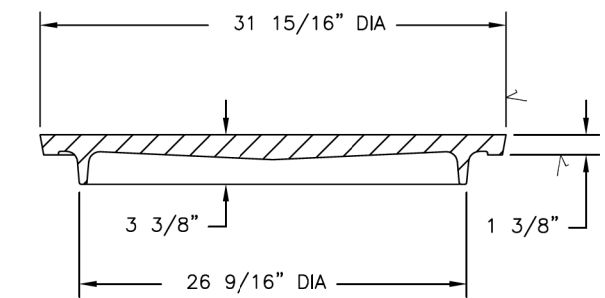
- 1. LIFTING ANCHORS
- 2. 1" DIA. BUTYL RUBBER JOINT SEALANT
- 3. REBAR

NOTES:

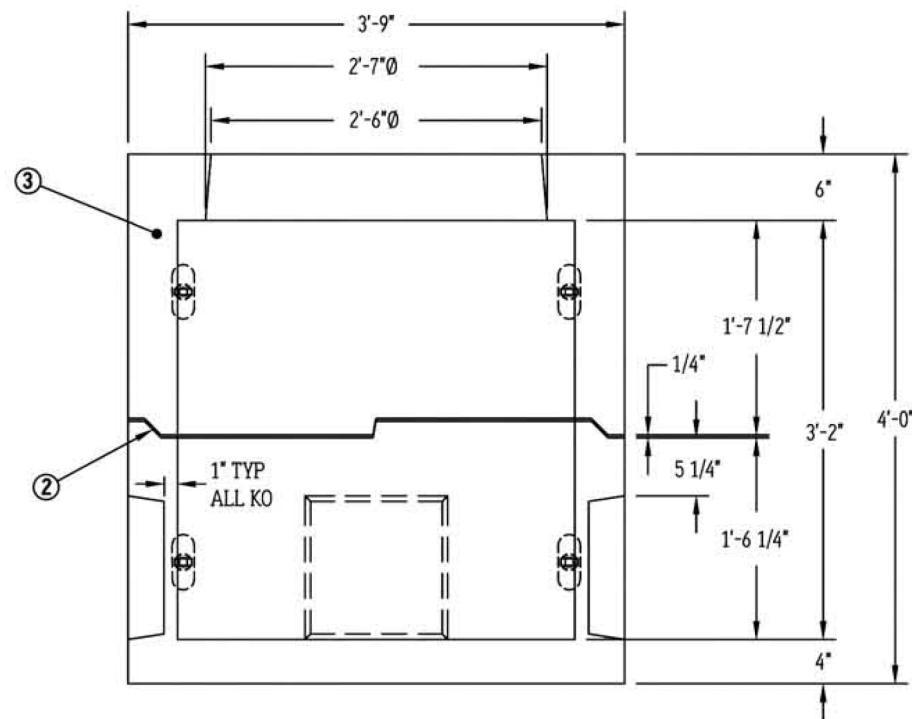
- 1. HANDHOLE SHALL BE PRECAST.
- 2. HANDHOLE SHALL MEET THE REQUIREMENTS OF ASTM C857 AND C858.



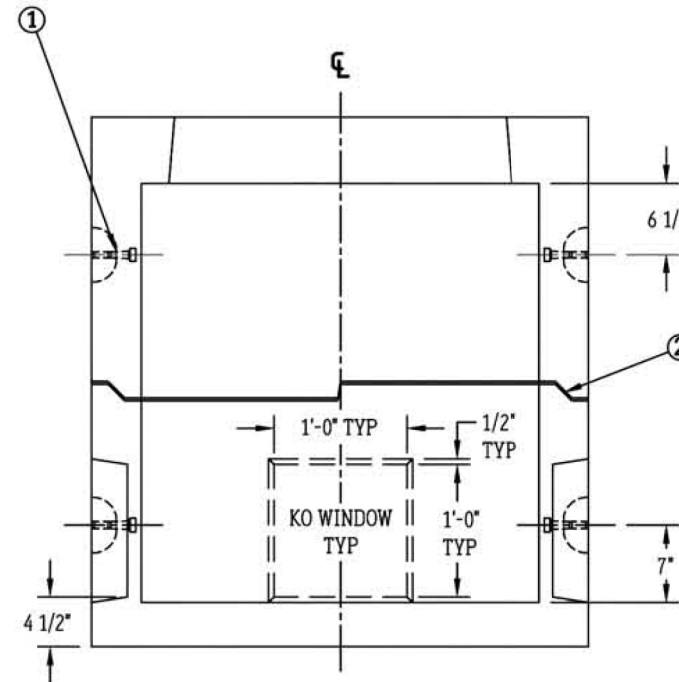
COVER PLAN VIEW



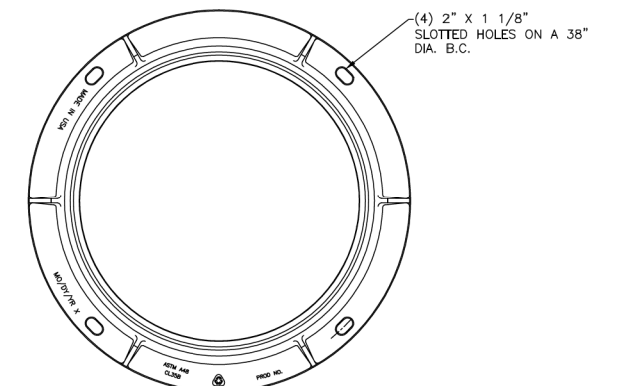
COVER SECTION



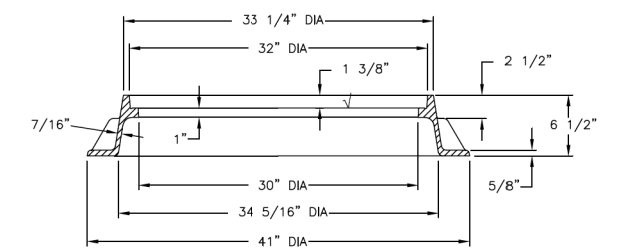
SECTION A-A



SECTION B-B



FRAME PLAN VIEW



SECTION OF FRAME

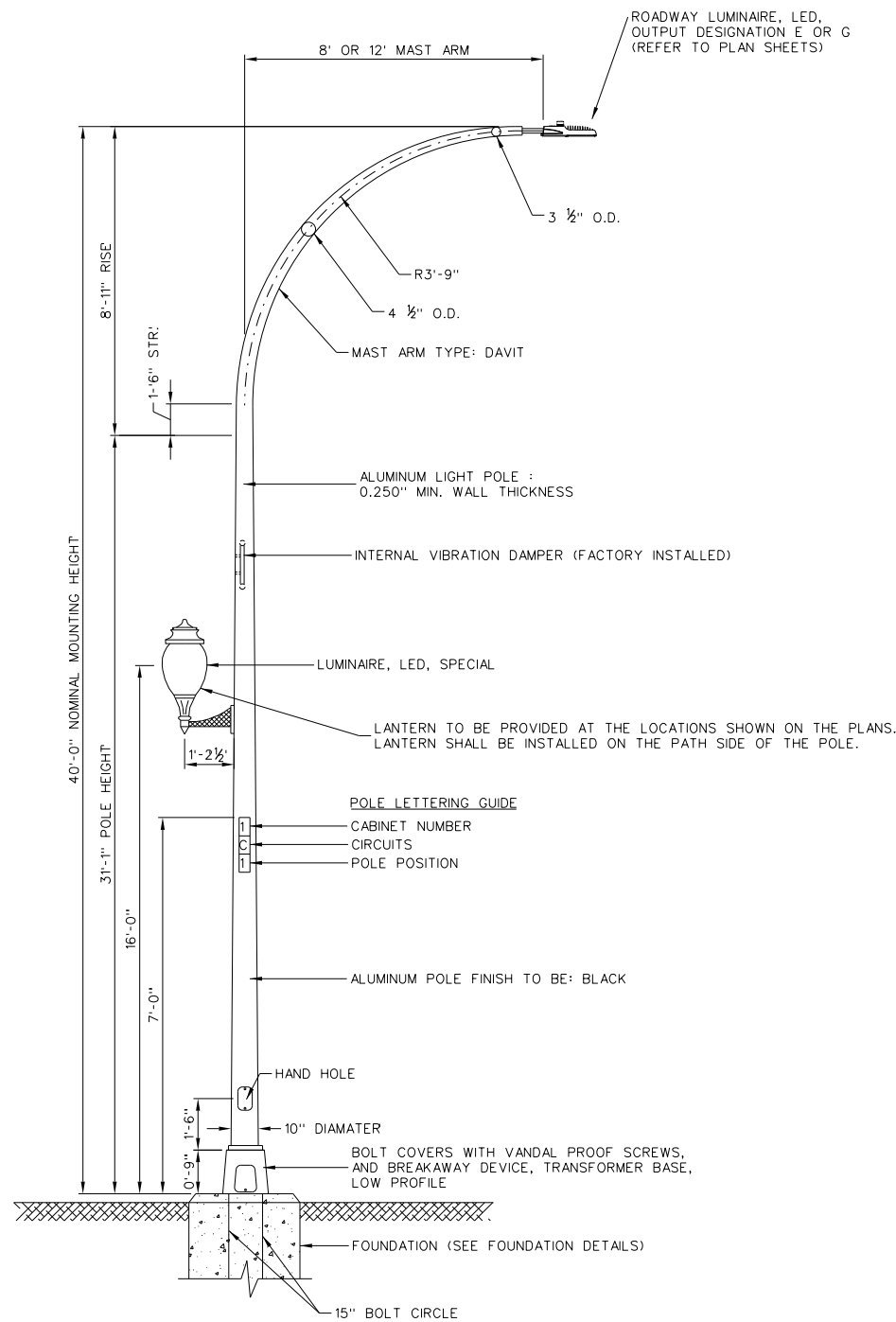
HANDHOLE (SPECIAL)

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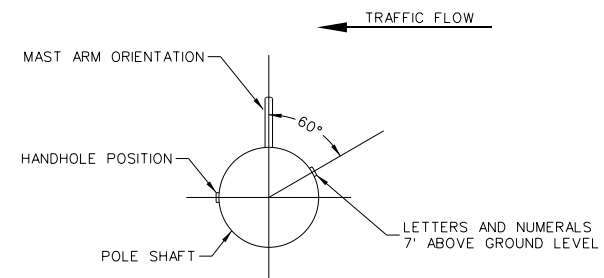
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DRAWN - MJS	REVISOR -	
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISOR -

80TH AVENUE TINLEY PARK LIGHTING DETAIL	
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

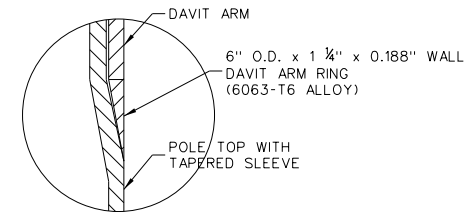
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CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	



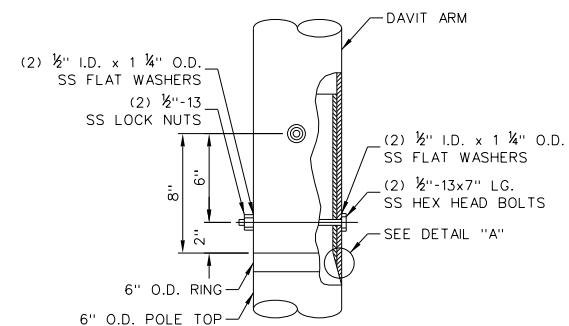
LIGHT POLE, ALUMINUM, 40 FOOT MOUNT HEIGHT WITH DAVIT ARM



POSITION OF HANDHOLE AND NUMERALS ON POLE



DETAIL "A"



CONNECTION DETAIL

NOTES:

1. ALUMINUM ALLOY 6063-T6 SHALL BE USED.
2. POLE, TRANSFORMER BASE, ARMS, BRACKETS, LUMINAIRES, AND ALL EXPOSED HARDWARE AND ACCESSORIES SHALL HAVE A FACTORY BLACK POWDERCOAT FINISH.

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 PEN TABLE =
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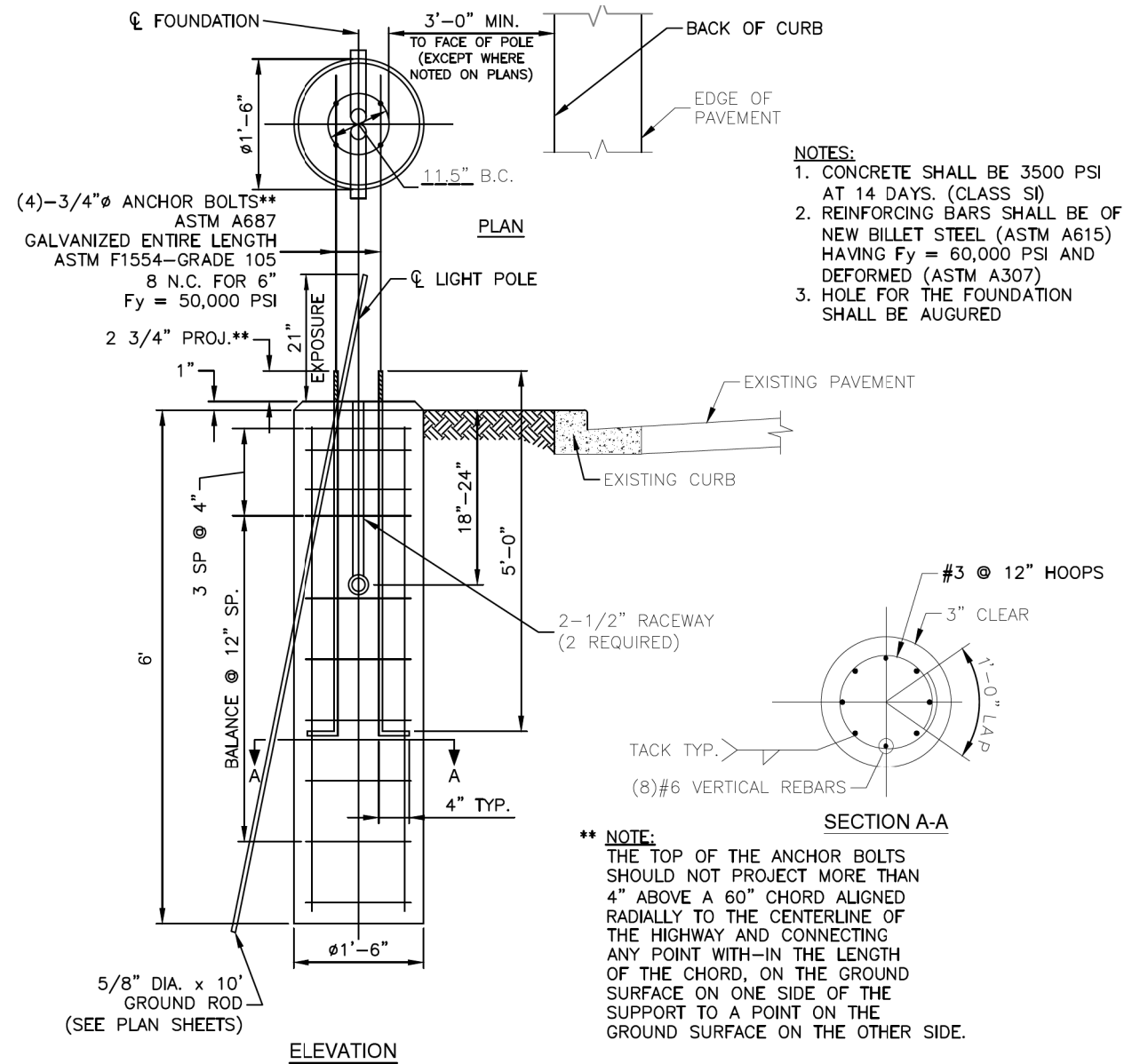
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK LIGHTING DETAIL**

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

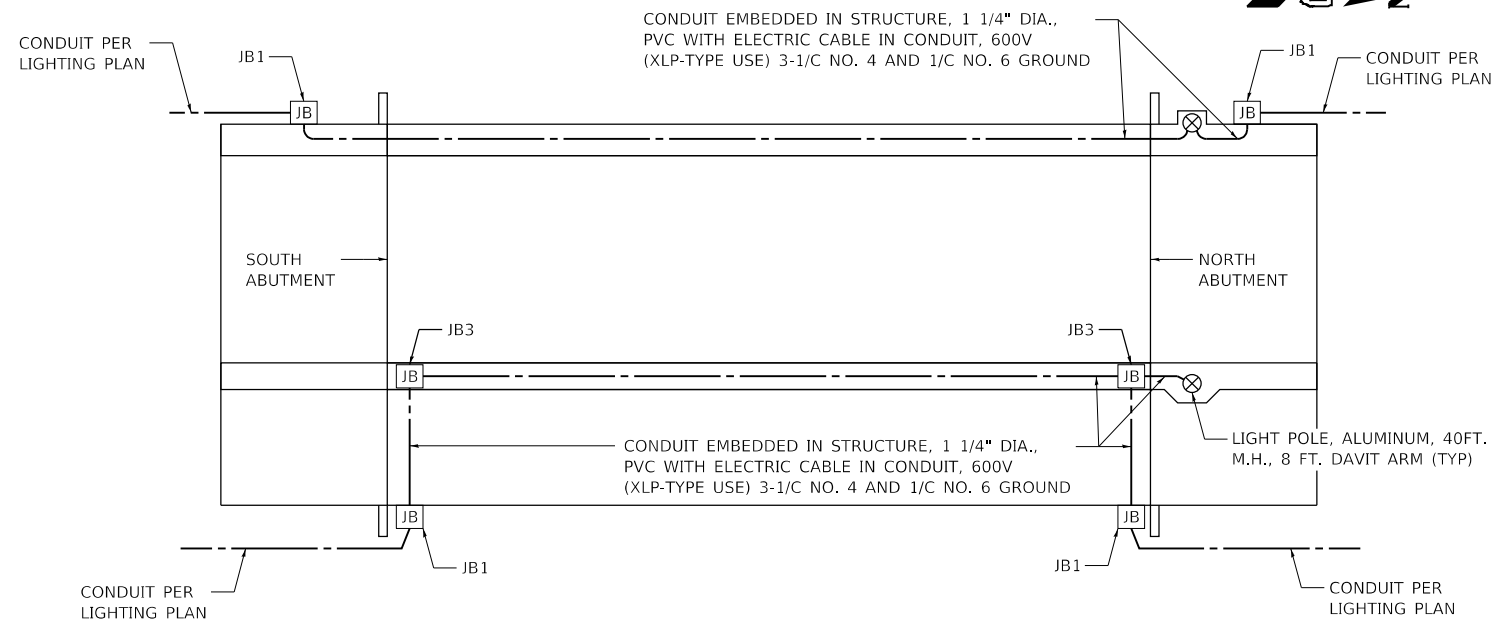
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	694
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



LIGHT POLE FOUNDATION, SPECIAL

- NOTES:**
1. CONCRETE SHALL BE 3500 PSI AT 14 DAYS. (CLASS SI)
 2. REINFORCING BARS SHALL BE OF NEW BILLET STEEL (ASTM A615) HAVING Fy = 60,000 PSI AND DEFORMED (ASTM A307)
 3. HOLE FOR THE FOUNDATION SHALL BE AUGURED

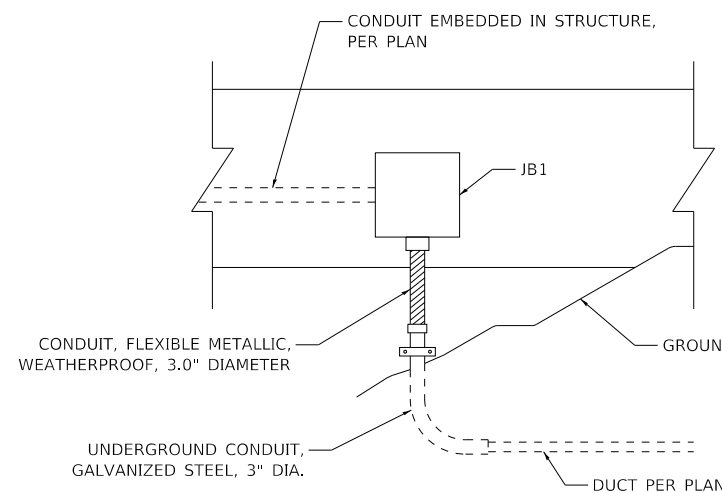
**** NOTE:**
 THE TOP OF THE ANCHOR BOLTS SHOULD NOT PROJECT MORE THAN 4" ABOVE A 60" CHORD ALIGNED RADIALLY TO THE CENTERLINE OF THE HIGHWAY AND CONNECTING ANY POINT WITH-IN THE LENGTH OF THE CHORD, ON THE GROUND SURFACE ON ONE SIDE OF THE SUPPORT TO A POINT ON THE GROUND SURFACE ON THE OTHER SIDE.



**80TH AVENUE OVER DITCH
 BRIDGE LIGHTING SCHEMATIC**

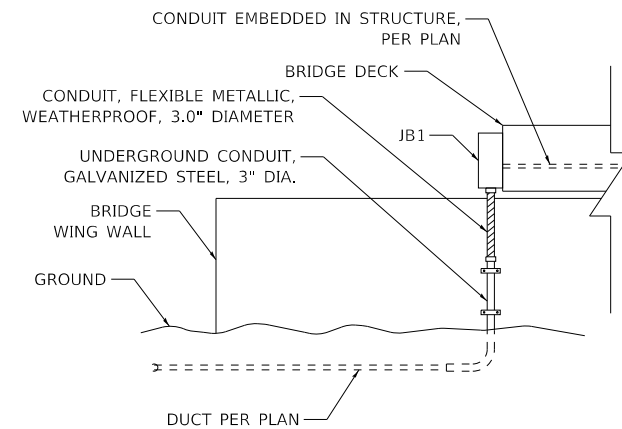
JUNCTION BOX SCHEDULE

JB1	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"
JB3	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12" X 8" X 6"



**CONDUIT TRANSITION TO BRIDGE ELEVATION
 WEST SIDE**

NOTE TO SCALE
 (LOOKING EAST)



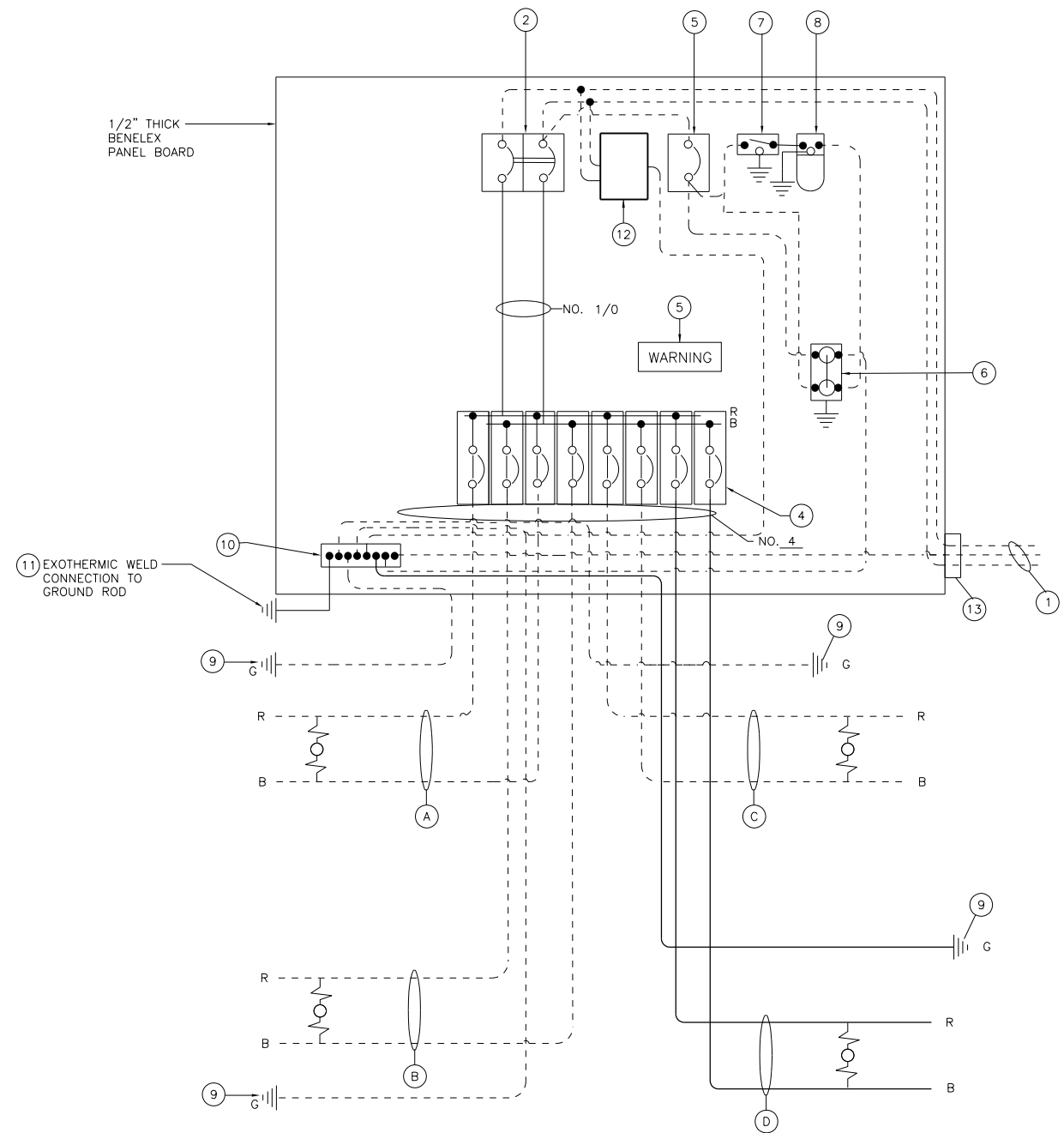
**CONDUIT TRANSITION TO BRIDGE ELEVATION
 EAST SIDE**

NOTE TO SCALE
 (LOOKING SOUTH)

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DRAWN - MJS	REVISED -	
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PLOT DATE = 2/26/2021	DATE - 11/23/2020	REVISED -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	695
CONTRACT NO.			61G73	
ILLINOIS FED. AID PROJECT				



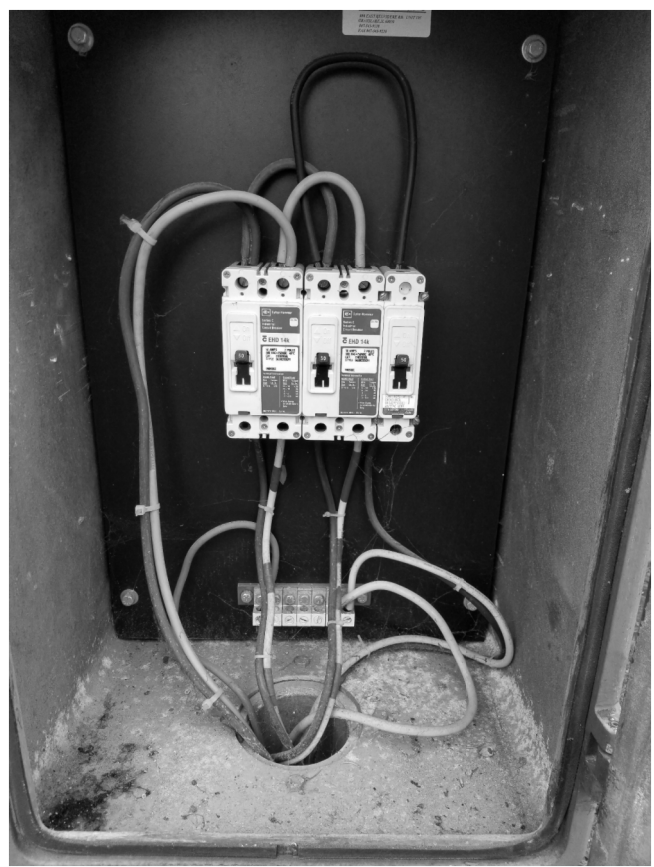
CONTROLLER WIRING DIAGRAM LEGEND

- ① 3-1/2" NO. 3/0, 600V SERVICE WIRE IN 2 1/2" GALVANIZED STEEL CONDUIT FOR 120/240 VOLT, 1 PHASE, 3 WIRE, 60 HZ. SERVICE
- ② 200 AMP MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT, 200 AMP BASE, NON-INTERCHANGEABLE INTERRUPTING RATING NEMA - 22,000 AMP AT 480 VOLT
- ④ 8-50 AMP CIRCUIT BREAKERS, FOR CIRCUITS A,B,C&D 2 POLE 600 VOLT 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-1800 AMP AT 480 VOLTS
- ⑤ WARNING PLATE TO READ: MAINTENANCE CIRCUITS ARE LIVE WHEN MAIN BREAKER IS SWITCHED OFF
- ⑥ 20 AMP, 120 VOLT DUPLEX RECEPTACLE
- ⑦ SWITCH FOR LIGHTING FIXTURE MOUNTED IN BOX
- ⑧ WEATHER-PROOF LED (60 WATT EQUIVALENT), 120 V LAMP
- ⑨ NO.6 GROUND WIRE (GREEN)
- ⑩ GROUND BUS BAR 1/4"x1"x12" LONG MOUNTED ON PANEL WITH TAPS.
- ⑪ NO.4 BARE COPPER WIRE CONNECTED TO 5/8" DIA. X 10 FT. GROUND ROD WITH EXOTHERMIC WELD
- ⑫ SURGE ARRESTOR
- ⑬ METER SOCKET, 1 PHASE, 3 WIRE, 200AMP
- A CIRCUIT (LIGHTING)
- B CIRCUIT (LIGHTING)
- C CIRCUIT (LIGHTING)
- D CIRCUIT (LIGHTING)

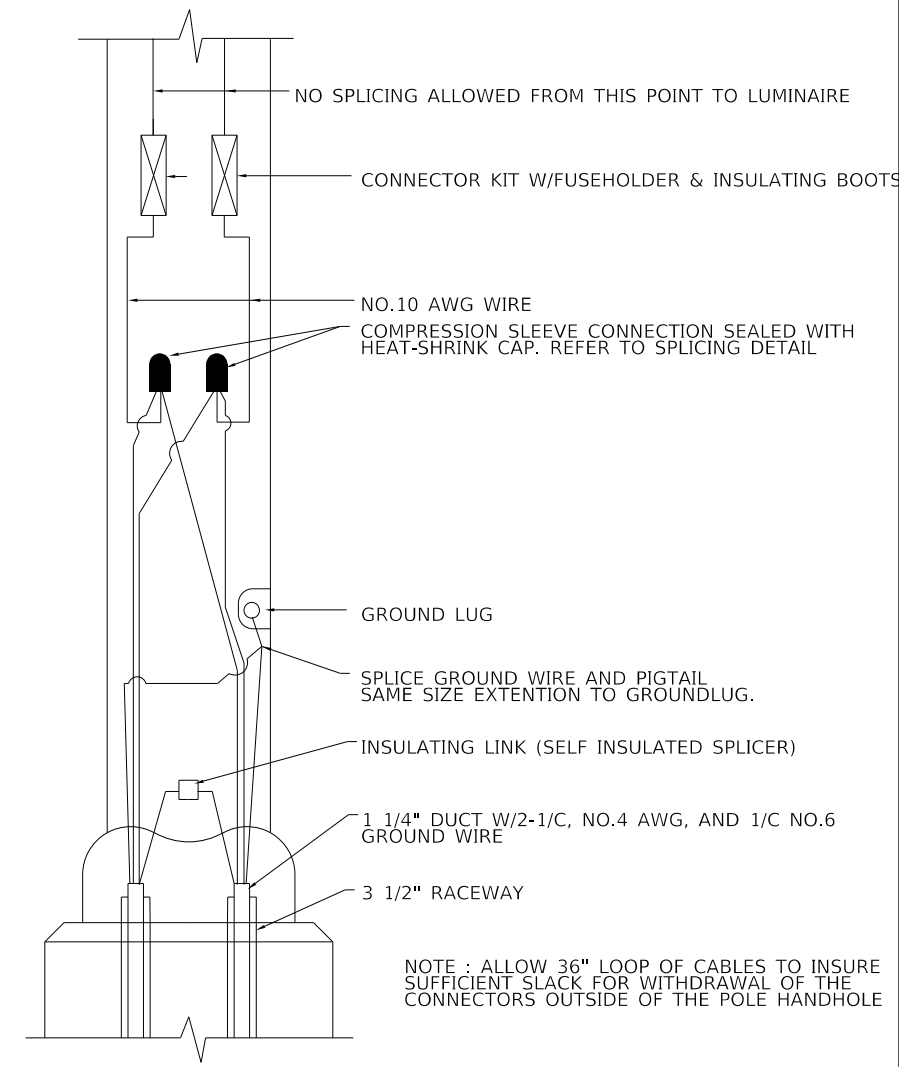
**LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 100 AMP
(PROPOSED 80TH AVENUE CONTROLLER)**

GENERAL NOTES :

1. ENTIRE CONTROL CABINET SHALL BE GROUNDED.
2. ALL WIRING SHALL BE TAGGED WITH SELF-STICKING WIRE MARKERS.
3. GROUND BUS TO BE COLOR CODED GREEN, NEUTRAL BUS WHITE, AND BONDED TO CABINET ENCLOSURE, BY LISTED PRESSURE CONNECTORS OR LISTED CLAMPS.
4. ALL INTERNAL CONTROLLER WIRING TO BE NO.12 AWG UNLESS OTHERWISE SPECIFIED.
5. CABINET WIRING INSULATION TO BE TYPE XHHW OR APPROVED EQUAL.
6. THE CONTROLLER SHALL BE UL LISTED, NEMA 3R AND SUITABLE FOR USE AS SERVICE ENTRANCE



EXISTING 80TH AVENUE CONTROLLER (FOR REFERENCE ONLY)



**POLE HANDHOLE WIRING DIAGRAM
80TH AVENUE SOUTH LEG POLE**

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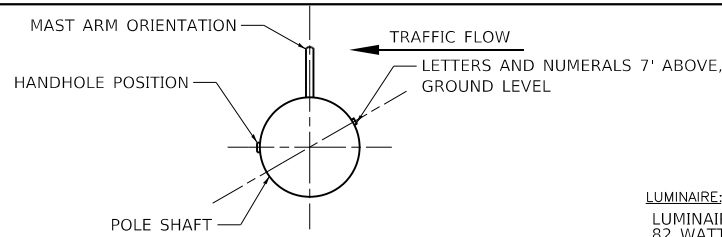
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**80TH AVENUE
TINLEY PARK PROPOSED LIGHTING PLAN
191ST STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	696
			CONTRACT NO. 61G73	
ILLINOIS FED. AID PROJECT				

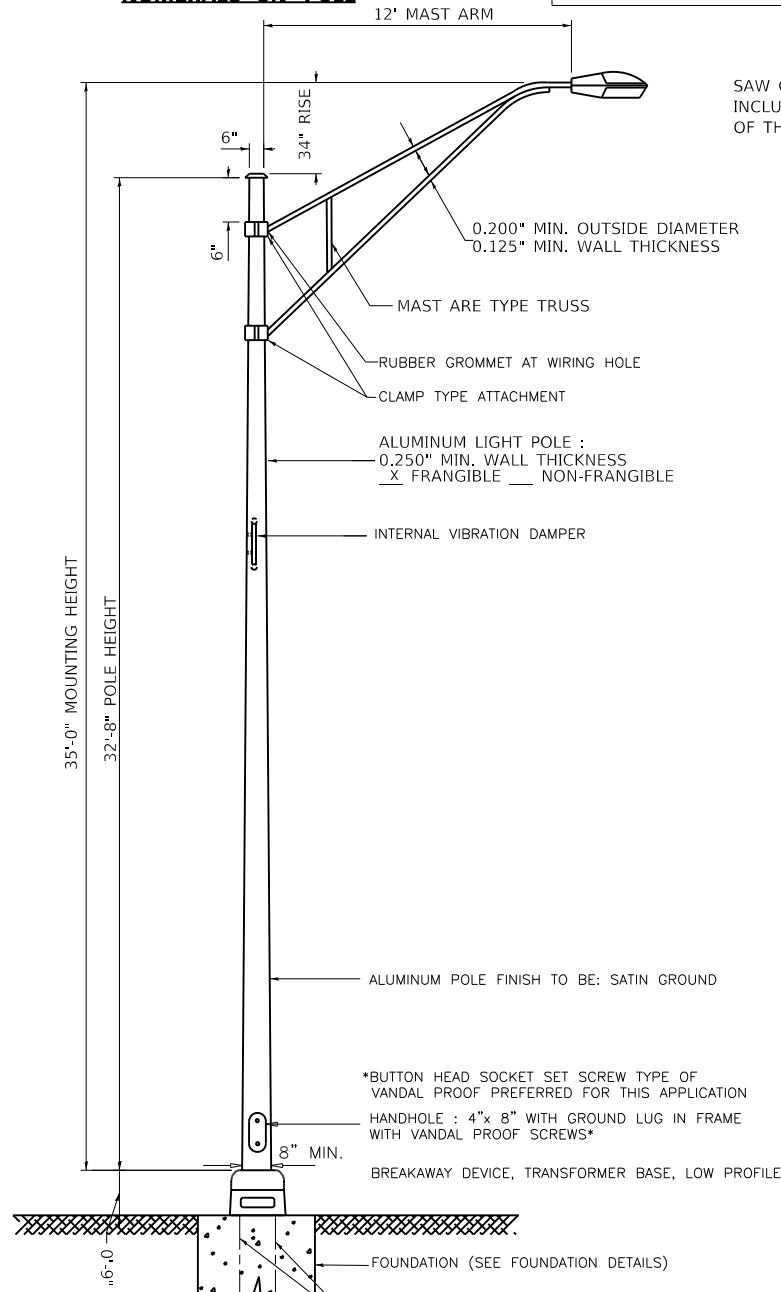
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POSITION OF HANDHOLE AND

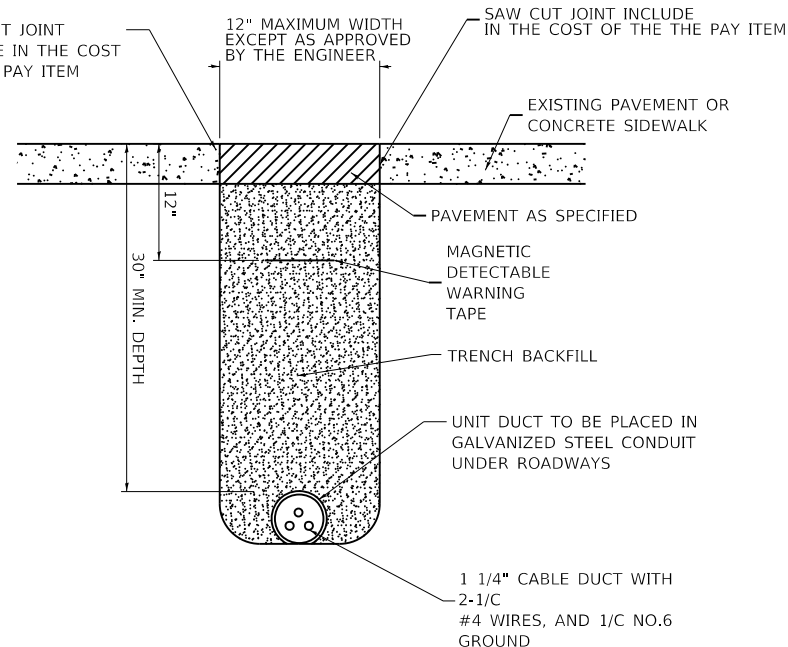
LUMINAIRE:
 LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E (82W)
 82 WATT LED LIGHT SOURCE
 240 VOLT DRIVER WITH SURGE PROTECTION
 4'000 K, 70 CRI
 IP65
 7 PIN PHOTOCCELL RECEPTACLE WITH LIGHTGRIDE NODE INSTALLED
 10 YEAR WARRANTY
 BUG RATING: B2-U0-G2
 INITIAL LUMENS: 10,000
 LIFE (L70 & TM21) 100,000 HOURS

NUMERALS ON POLE

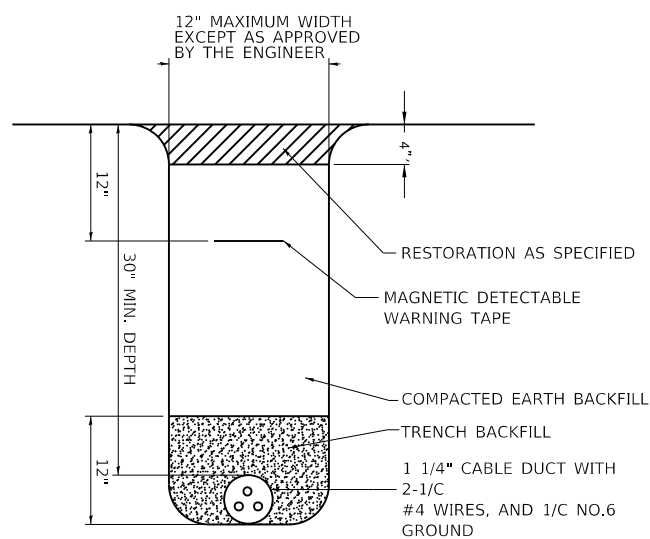


NOTES:
 1. THE LIGHTING UNITS SHALL MEET CURRENT LRFD DESIGN STANDARDS. DESIGN FOR 90 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ.FT. AND PROPER ICE LOADING.
 2. ALUMINUM ALLOY 6063-T6 SHALL BE USED.

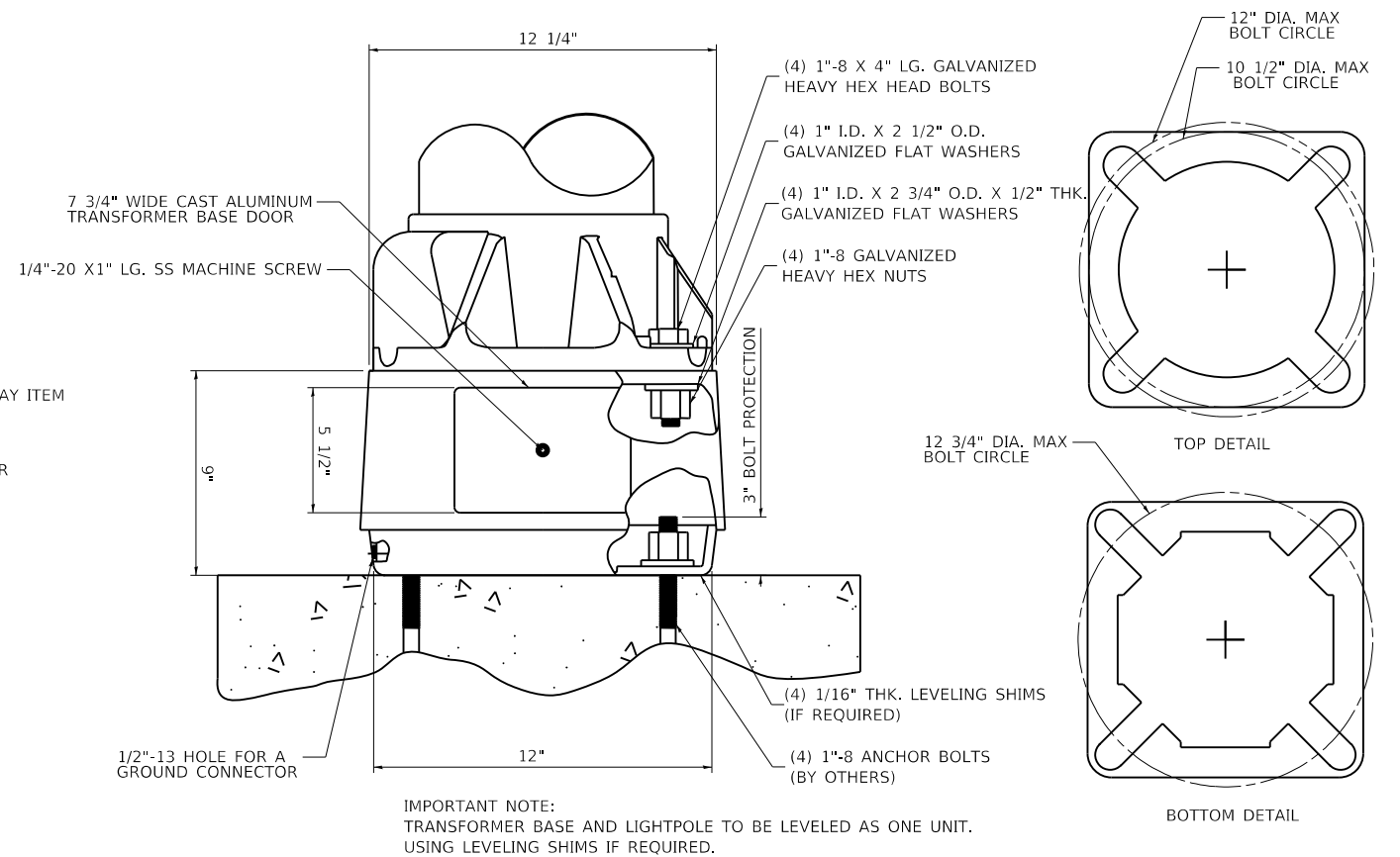
LIGHT POLE, ALUMINUM, 35 FT M.H., 12 FT MAST ARM (TYPICAL POLE INSTALLATION - 80TH AVENUE)



TRENCH DETAIL - PAVED AREAS (80TH AVENUE)

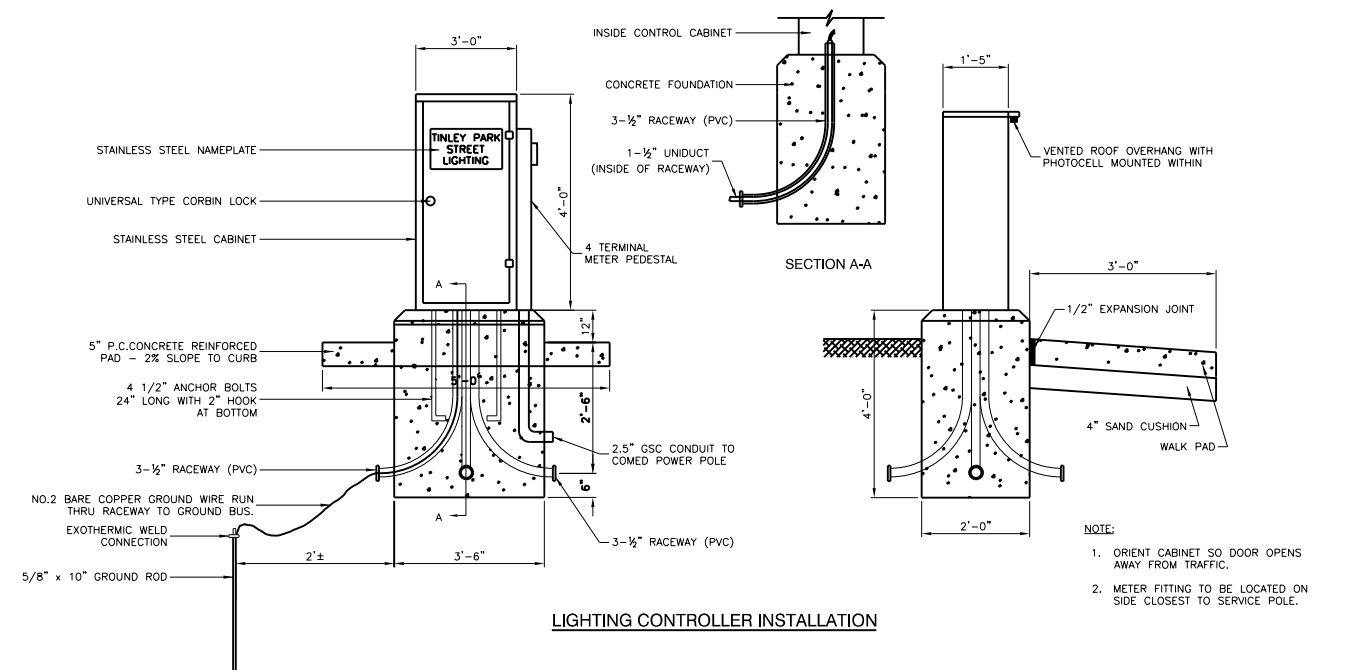


TRENCH DETAIL - UNPAVED AREAS (80TH AVENUE)



IMPORTANT NOTE:
 TRANSFORMER BASE AND LIGHTPOLE TO BE LEVELED AS ONE UNIT. USING LEVELING SHIMS IF REQUIRED.

BREAKAWAY DEVICE TRANSFORMER BASE, 11.5\"/>



NOTE:
 1. ORIENT CABINET SO DOOR OPENS AWAY FROM TRAFFIC.
 2. METER FITTING TO BE LOCATED ON SIDE CLOSEST TO SERVICE POLE.

LIGHTING CONTROLLER INSTALLATION

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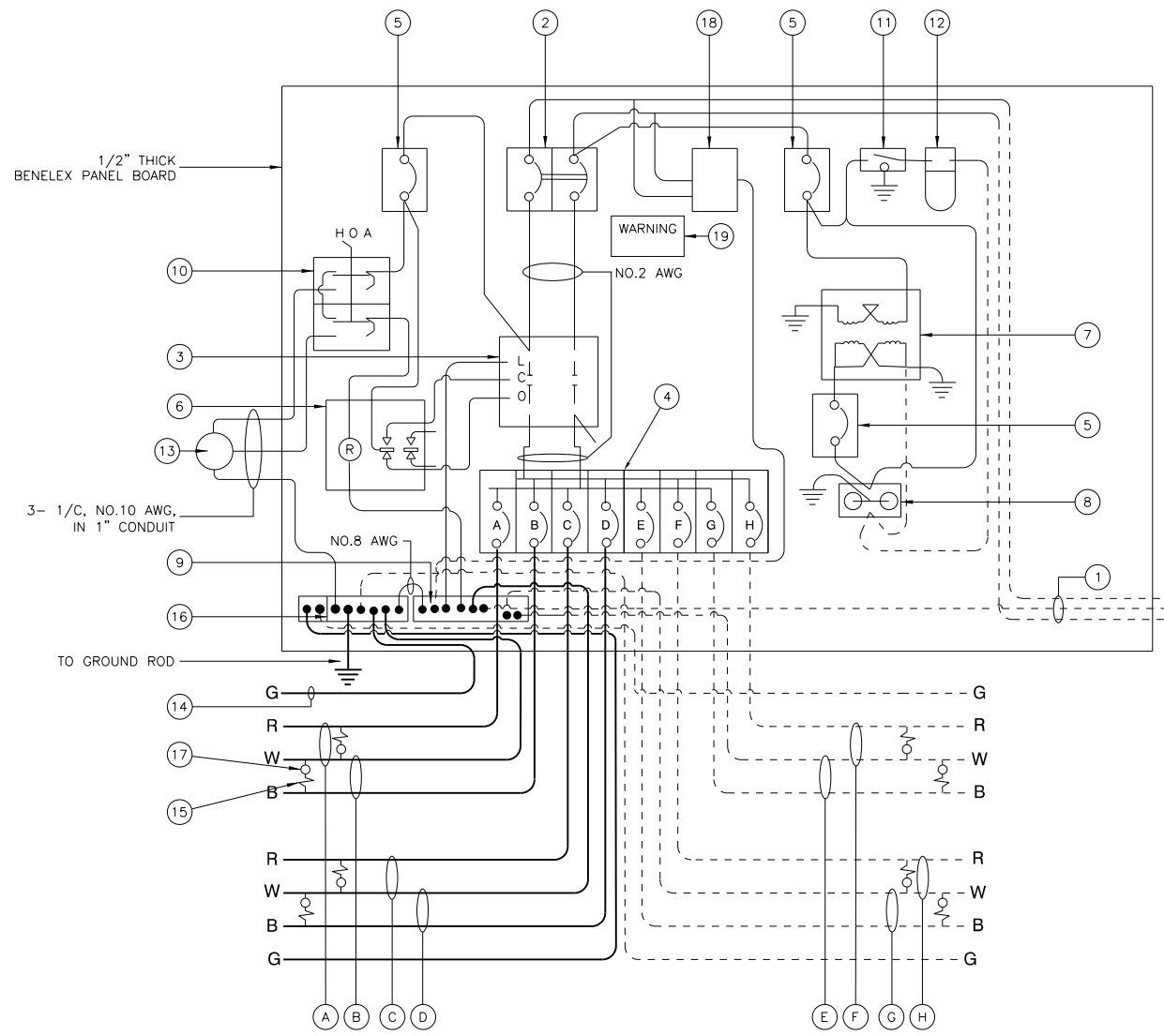


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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

80TH AVENUE TINLEY PARK LIGHTING PLAN 80TH AVENUE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET \$RLGT0241113 SHEETS	2755	06-00122-16-FP	WILL	1113	697
STA. - TO STA. -		CONTRACT NO. 61G73				

ILLINOIS		FED. AID PROJECT				
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CONTROLLER WIRING DIAGRAM (EXISTING)
MARKET PLACE DRIVE

CONTROLLER WIRING DIAGRAM LEGEND

- ① 3-1/0, NO. 3/0 600V SERVICE WIRE IN 2" DIA GALVANIZED STEEL CONDUIT FOR 240/480 VOLT, 1Ø, 3 WIRE, 60HZ. SERVICE.
- ② (1) 200 AMP MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 14000 AMP AT 480 V.
- ③ (1) 200 AMP CONTACTOR SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, 600 VOLT
- ④ (8) 30 AMP CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP BASE, NON-INTER-CHANGEABLE TRIP RATING NEMA - 14000 AMP AT 240 VOLTS.
- ⑤ (3) 20 AMP CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 14000 AMP AT 240 V.
- ⑥ (1) 20 AMP, 1 POLE DOUBLE THROW, 240 VOLT RELAY
- ⑦ (1) 1.5 KVA, SINGLE PHASE, ENCAPSULATED TRANSFORMER 240 X 480/120 X 240 VOLT, 60HZ.
- ⑧ (1) 20 AMP, 120 VOLT DUPLEX GFCI RECEPTACLE.
- ⑨ NEUTRAL BUS BAR, 1/4"x1"x12" LONG MOUNTED ON PANEL WITH TAPS.
- ⑩ 3 POSITION SELECTOR SWITCH
- ⑪ SWITCH FOR LIGHTING FIXTURE MOUNTED IN BOX.
- ⑫ WEATHER-PROOF INCANDESCENT LIGHTING FIXTURE WITH 60 WATT, 120 V LAMP.
- ⑬ PHOTOCELL MOUNTED TO CABINET, 240 V.
- ⑭ NO.2 AWG INSULATED GROUND WIRE
- ⑮ IN-LINE FUSEHOLDER WITH FUSE AS NOTED IN FUSE TABLE
- ⑯ GROUND BUS BAR 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH TAPS.
- ⑰ LUMINAIRE
- ⑱ WARNING PLATE TO READ: WARNING, MAINTENANCE CIRCUIT IS LIVE WHEN MAIN BREAKER IS SWITCHED OFF.

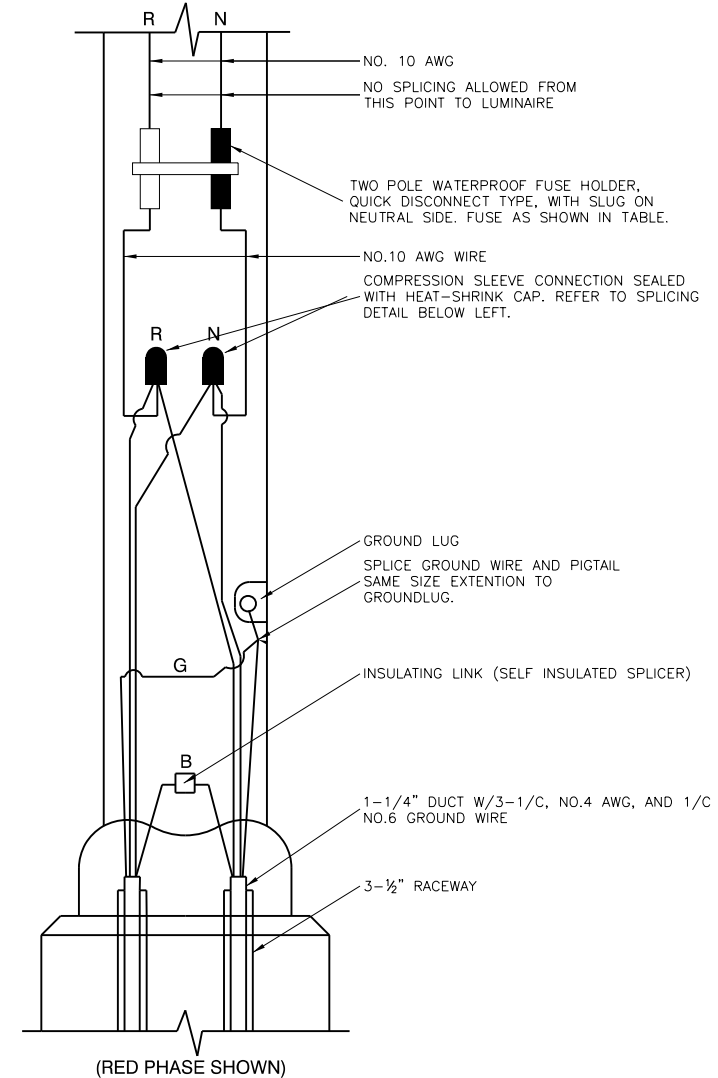
- | | |
|-------------------|-------------------|
| Ⓐ CIRCUIT (RED) | Ⓔ CIRCUIT (RED) |
| Ⓑ CIRCUIT (BLACK) | Ⓕ CIRCUIT (BLACK) |
| Ⓒ CIRCUIT (RED) | Ⓖ CIRCUIT (RED) |
| Ⓓ CIRCUIT (BLACK) | Ⓗ CIRCUIT (BLACK) |

GENERAL NOTES FOR CONTROL CABINET

1. ENTIRE CONTROL CABINET SHALL BE GROUNDED.
2. ALL WIRING SHALL BE TAGGED WITH SELF-STICKING WIRE MARKERS.
3. GROUND BUS TO BE COLOR CODED GREEN, NEUTRAL BUS WHITE, AND BONDED TO CABINET ENCLOSURE, BY LISTED PRESSURE CONNECTORS OR LISTED CLAMPS.
4. ALL INTERNAL CONTROLLER WIRING TO BE NO.12 AWG UNLESS OTHERWISE SPECIFIED.
5. CABINET WIRING INSULATION TO BE TYPE XHHW OR APPROVED EQUAL.

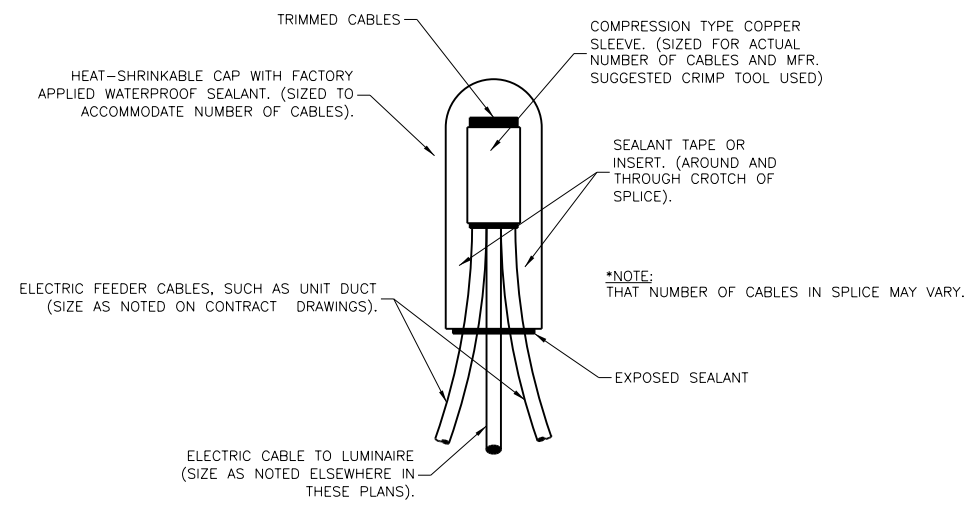
NOMINAL WATTAGE	FUSE SIZE
82	3 AMP
149	3 AMP

LUMINAIRE FUSE SIZE TABLE



POLE HANDHOLE WIRING DIAGRAM (191ST STREET)
(TYPICAL FOR SINGLE LUMINAIRE INSTALLATION)

NOTE:
ALLOW 36" LOOP OF CABLES TO INSURE SUFFICIENT SLACK FOR WITHDRAWAL OF THE CONNECTORS OUTSIDE OF THE POLE HANDHOLE.



SPLICING ELECTRIC CABLES
BASIC MATERIALS AND METHODS

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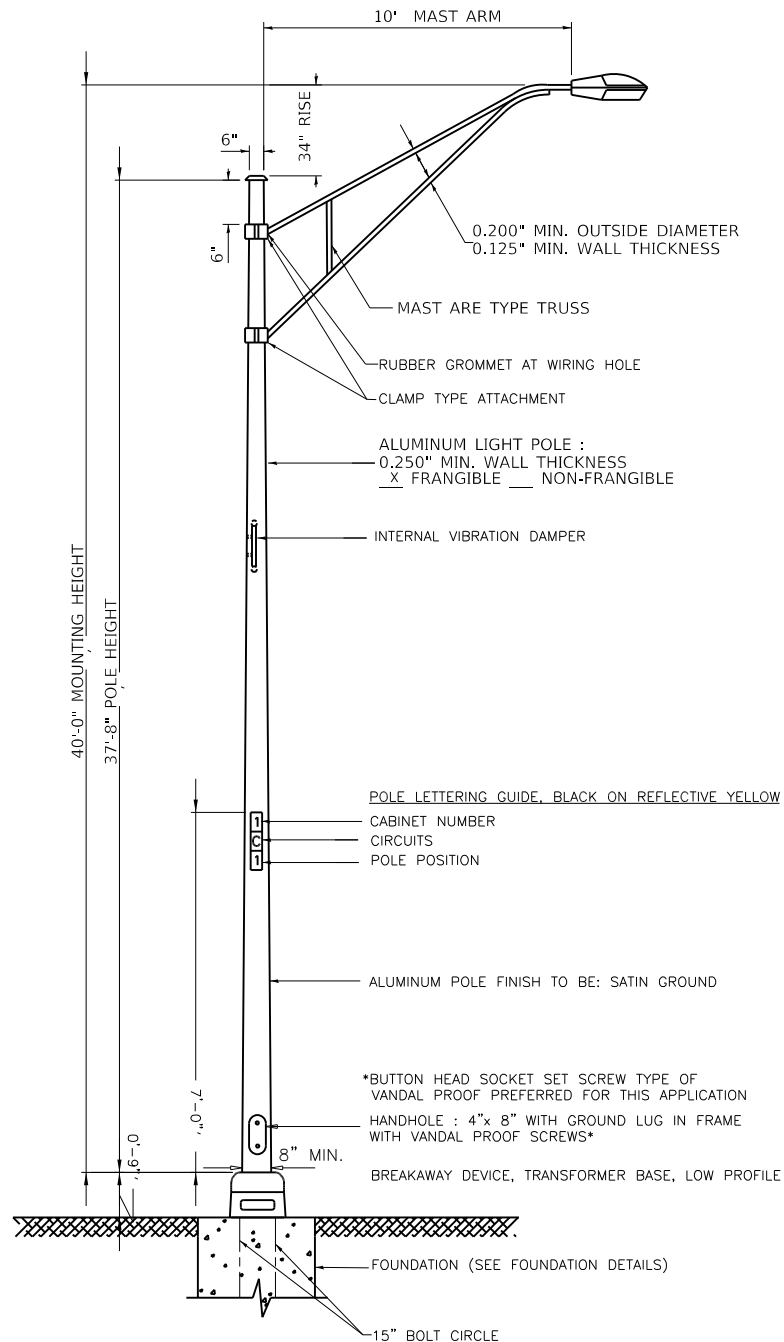
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

80TH AVENUE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TINLEY PARK LIGHTING PLAN		2755	06-00122-16-FP	WILL	1113	698
191ST STREET		CONTRACT NO. 61G73				
SCALE: N.T.S.	SHEET \$RLTG05 1113 SHEETS	STA. -	TO STA. -	ILLINOIS FED. AID PROJECT		

LUMINAIRE:
 LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E (82W)
 82 WATT LED LIGHT SOURCE
 240 VOLT DRIVER WITH SURGE PROTECTION
 4'000 K, 70 CRI
 IP65
 7 PIN PHOTOCCELL RECEPTACLE WITH LIGHTGRIDE NODE INSTALLED
 10 YEAR WARRANTY
 BUG RATING: B2-U0-G2
 INITIAL LUMENS: 10,000
 LIFE (L70 & TM21) 100,000 HOURS

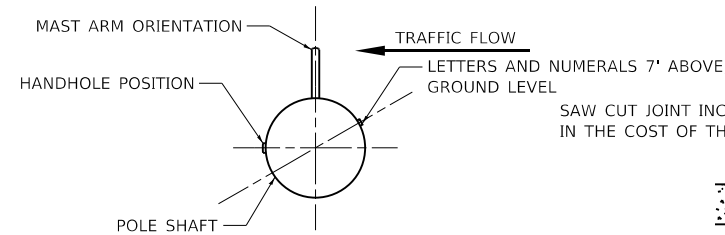
OR

LUMINAIRE:
 LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G (149W)
 149 WATT LED LIGHT SOURCE
 240 VOLT DRIVER WITH SURGE PROTECTION
 4'000 K, 70 CRI
 IP65
 7 PIN PHOTOCCELL RECEPTACLE WITH LIGHTGRIDE NODE INSTALLED
 10 YEAR WARRANTY
 BUG RATING: B2-U0-G2
 INITIAL LUMENS: 10,000
 LIFE (L70 & TM21) 100,000 HOURS

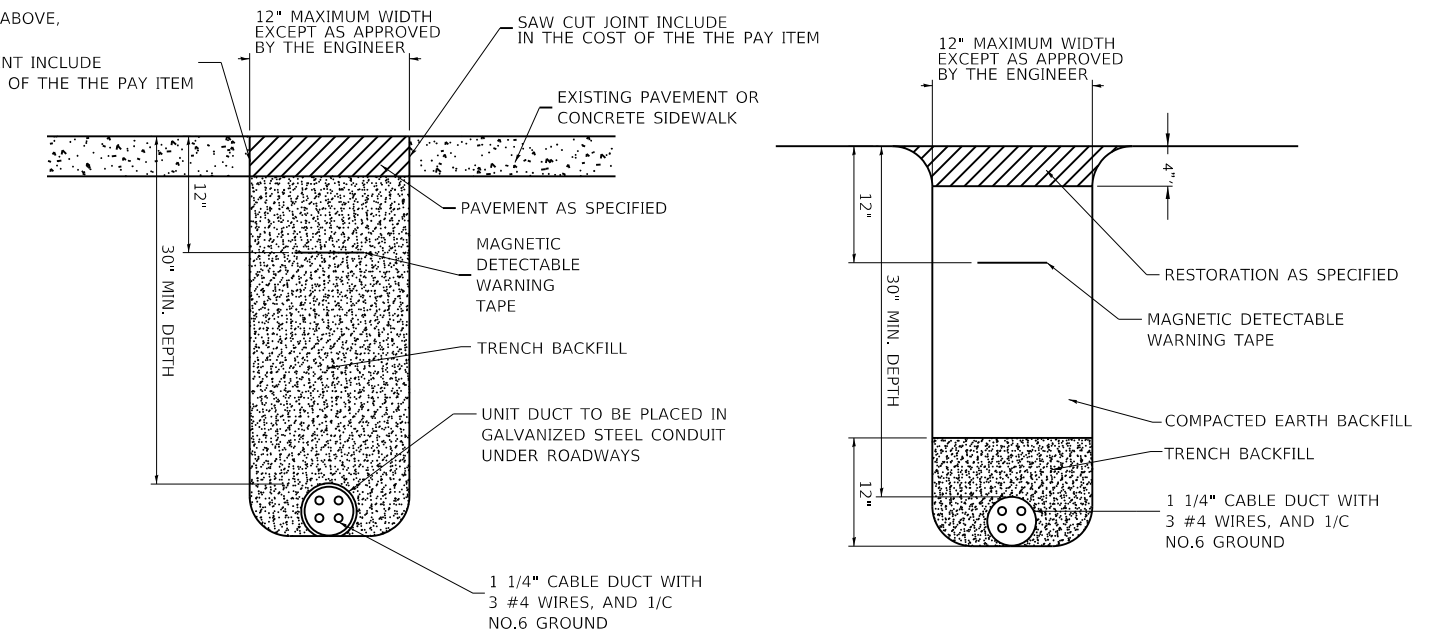


NOTES:
 1. THE LIGHTING UNITS SHALL MEET CURRENT LRFD DESIGN STANDARDS. DESIGN FOR 90 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ.FT. AND PROPER ICE LOADING.
 2. ALUMINUM ALLOY 6063-T6 SHALL BE USED.

**LIGHT POLE, ALUMINUM, 40 FT. M.H., 10 FT. MAST ARM
 (TYPICAL POLE INSTALLATION - 191ST STREET)**

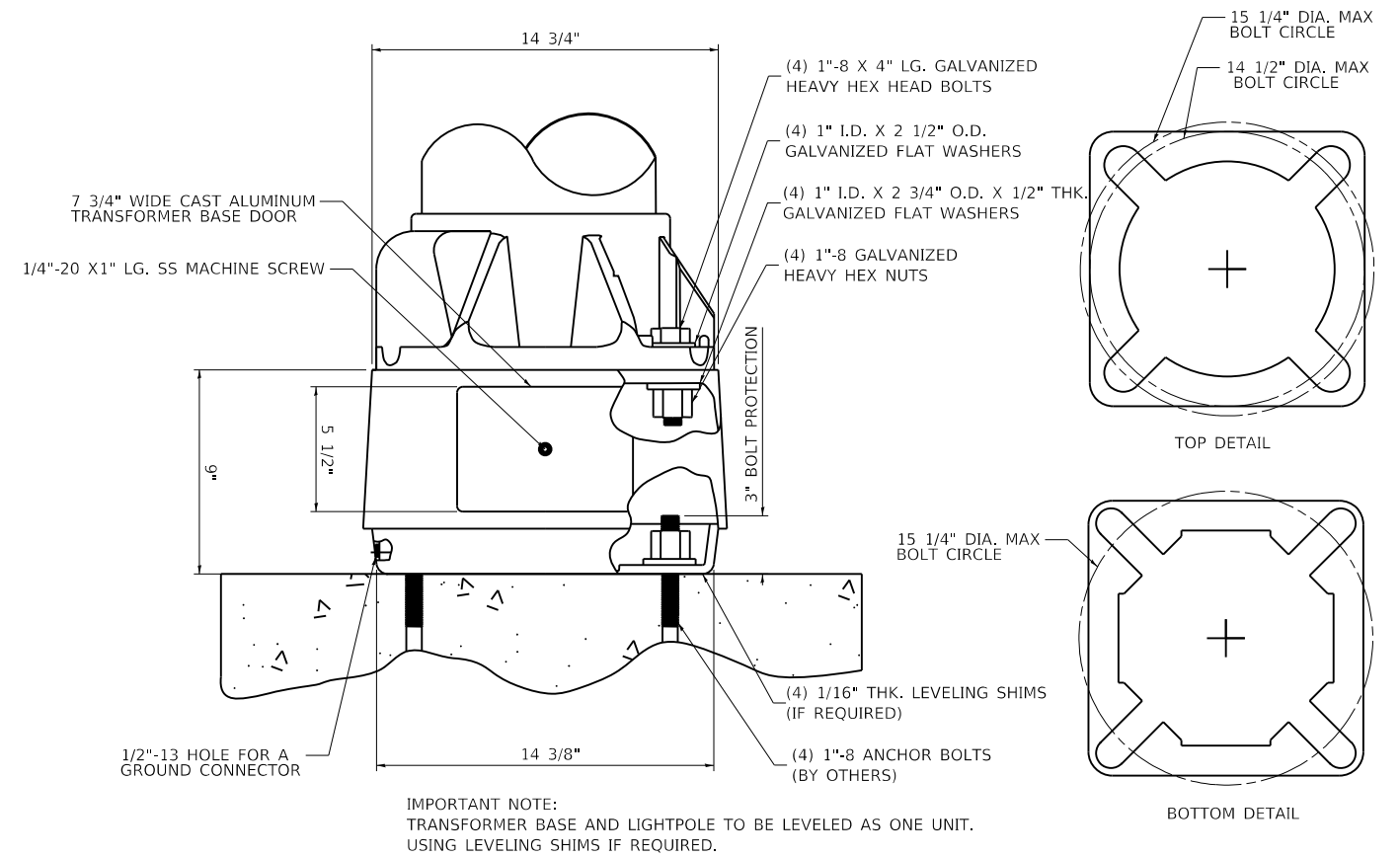


POSITION OF HANDHOLE AND NUMERALS ON POLE



TRENCH DETAIL - PAVED AREAS (191ST STREET)

TRENCH DETAIL - UNPAVED AREAS (191ST STREET)



BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE - 191ST STREET

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

80TH AVENUE TINLEY PARK LIGHTING PLAN 191ST STREET	
SCALE: 1" = 20'	SHEET \$DTLS4021113 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2755	06-00122-16-FP	WILL	1113	699
CONTRACT NO. 61G73			ILLINOIS FED. AID PROJECT	

ROADWAY LIGHTING NOTES

1. THE CONTRACTOR SHALL KEEP DEVIATIONS FROM THE UNIT DUCT ROUTING SHOWN ON THE PLANS TO A MINIMUM. MAJOR DEVIATIONS SHALL BE REPORTED TO AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
2. REMOVAL OF THE EXISTING LIGHTING SYSTEM SHALL NOT BEGIN BEFORE THE TEMPORARY OR PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
3. THE ENGINEER SHALL APPROVE THE LOCATION OF ALL PUSH PITS.
4. UNDERGROUND SPLICES ARE NOT ALLOWED.
5. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE CONCRETE FOUNDATIONS HAVE CURED.
6. IDOT MAINTAINED EQUIPMENT IS NOT PART OF J.U.L.I.E. THE CONTRACTOR SHOULD CALL IDOT ELECTRICAL/TRAFFIC MAINTENANCE CONTRACTOR MEADE ELECTRIC AT 773-287-7672 FOR CABLE LOCATION SERVICE FOR IDOT MAINTAINED EQUIPMENT BEFORE START OF ANY WORK. THE FIRST LOCATE IS FREE; HOWEVER, REPEAT LOCATES AT THE SAME LOCATION ARE SUBJECT TO CHARGE.

SUMMARY OF IDOT LIGHTING QUANTITIES

DESCRIPTION	UNIT	TOTAL
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	181
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	345
CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., PVC COATED GALVANIZED STEEL	FOOT	12
CONDUIT EMBEDDED IN STRUCTURE, 2 1/2" DIA., PVC	FOOT	56
CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	110
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	4
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	3
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,508
AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	2,102
TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2
LUMINAIRE, LED, UNDERPASS, WALLMOUNT, OUTPUT DESIGNATION D	EACH	4
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION D	EACH	4
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 3/C NO. 4 AND NO. 6 GROUND	FOOT	1,159
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	962
TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	2
TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	7
TEMPORARY WOOD POLE, 80 FEET, CLASS 4	EACH	2
JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 21" X 11" X 08"	EACH	2
LIGHT POLE FOUNDATION, INTEGRAL WITH BARRIER WALL, 24" DIAMETER	FOOT	1
REMOVE AND RE-ERECT EXISTING LIGHTING UNIT	EACH	1
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	13

LIGHTING LEGEND

EXISTING	PROPOSED	DESCRIPTION
		EXISTING IDOT LIGHT POLE AND LUMINAIRE TO REMAIN
		TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM AND TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H, MOUNTED AT 50' ABOVE THE EDGE OF PAVEMENT
		EXISTING IDOT WALL MOUNTED LIGHT POLE, 50 FT., TWO 6 FT. MAST ARMS WITH (2) LUMINAIRES, HORIZONTAL MOUNT ON LIGHT POLE FOUNDATION (ROADWAY MEDIAN, TYPE III (SEE NOTE 1) AND LUMINAIRE TO REMAIN
		REMOVAL OF EXISTING LIGHT POLE (PAID FOR AS "REMOVE AND RE-ERECT EXISTING LIGHTING UNIT")
		REINSTALLATION OF EXISTING REMOVED LIGHT POLE (PAID FOR AS "REMOVE AND RE-ERECT EXISTING LIGHTING UNIT")
		LIGHTING CONTROLLER
		HEAVY DUTY HANDHOLE
		JUNCTION BOX, EMBEDDED IN STRUCTURE, SIZED AND TYPE AS NOTED
		JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZED AS NOTED JB1: 18" X 18" X 8" JB2: 12" X 10" X 6" JB3: 6" X 6" X 4"
		LUMINAIRE, LED, UNDERPASS, SUSPENDED OR WALL MOUNTED, OUTPUT DESIGNATION D
		LUMINAIRE ID
		TEMPORARY WOOD POLE, 60 FT., CLASS 4 UNLESS NOTED OTHERWISE
		AERIAL CABLE
		UNIT DUCT, CONDUIT OR CABLE AS NOTED

IDOT LIGHTING DETAILS:

MISC. ELECTRICAL DETAILS SHEET A (BE-703)
 SUSPENDED MOUNT LED UNDERPASS LUMINAIRE INSTALLATION DETAILS (BE-901)
 PIER/ABUTMENT MOUNTED LED UNDERPASS LUMINAIRE INSTALLATION DETAILS (BE-903)
 24" DIA. LIGHT POLE FOUNDATION INTEGRAL WITH DOUBLE FACE BARRIER WALL
 JUNCTION BOXES, EMBEDDED IN MEDIAN BARRIER WALL

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