

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS **PROPOSED**

# HIGHWAY PLANS

### VARIOUS LOCATIONS IN SOUTH COOK COUNTY #3 LIGHT EMITTING DIODE (LED) INSTALLATION SECTION 2013-052TS COOK COUNTY

C-91-044-14

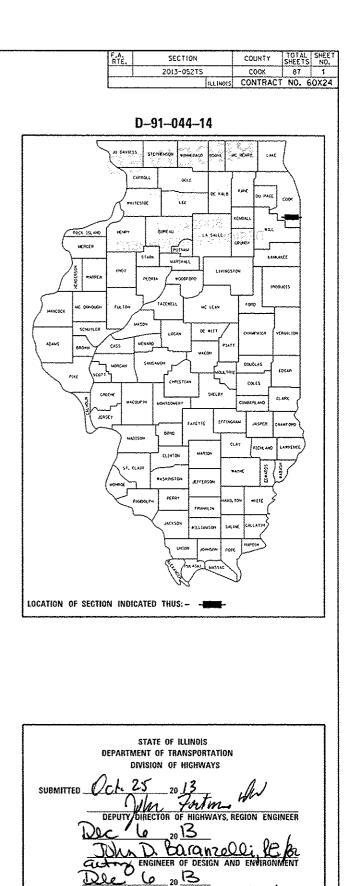
COOK COUNTY LOCATION MAP SEE SHEET 3

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14	4550	127TH ST & MAPLE AVE	
15 16	11380	127TH ST & VINCENNES AVE/GREGO	RY SI
17	4575 5875	127TH ST © WESTERN AVE 123RD ST © WESTERN AVE	
18	3995	12TH ST & KEDZIE AVE	
19	20445	127TH ST & WIRETON RD	
20	4545	BROADWAY ST @ CHATHAM ST	
21	4580	BROADWAY ST & WESTERN AVE	
22	4560	GRECORY ST @ YORK RD	
23	4585	WESTERN AVE & VERMONT AVE	
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27	4010	127TH ST @ WOOD ST	
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29 30	4140	ASHLAND AVE & VERMONT ST	115751 0
30	25 35	I 57 @ 127TH ST EAST RAMP/MARS I S7 @ 127TH WEST RAMP/PAULINA	THE YEST D
32	35 1790	IL 1/HALSTED ST @ 127th ST	
33	3972	119TH ST @ PAGE ST	
34	12105	142ND ST & COTTAGE GROVE AVE	
35	4050	142ND ST MAIN ST & CHICAGO RD	
36	4060	142ND ST MAIN ST @ LINCOLN AVE	
37	11460	IL 83 SIBLEY BLVD-147TH ST @ WC	ODLAWN AVE
38	11365	142ND ST & WOODLAWN AVE	
39	11370	LINCOLN ST & WOODLAWN AVE	
40 41	13090	144TH ST @ INDIANA AVE	
42	11480 11315	154TH ST © COTTAGE GROVE AVE CHICAGO RD © 144TH ST	
43	3395	IL 83/147TH ST-SIBLEY BLVD @ CH	ICACO RD
44-45	11475	IL 83/147TH ST-SIBLEY BLVD & CO	
46	1147Q	IL 83/147TH ST-SIBLEY BLVD & EN	
47-49	11465	IL 83/147TH ST-SIBLEY BLVD & GR	
49	3465	IL 83/147TH ST-SIBLEY BLVD @ LA	SALLE ST/MARKHAM DR
50	3475	IL 83/147TH ST-SIBLEY BLVD @ LI	WCOLN AVE/MICHIGAN CITY RE
51	11430	LINCOLN AVE EAST OF AVALON AVE	
52	4080	154TH ST @ CHICAGO RD/SOUTH PAR	RK AVE
53 54	11750	US 6 159TH ST @ PARK AVE	
55	13795 13800	150TH ST & WOOD ST 154TH ST & WOOD ST	
56	13805	155TH ST & WOOD ST	
57	13810	156TH ST @ WOOD ST	
58	13815	158TH ST @ WOOD ST	
59	1810	IL 1/HALSTED ST @ 157TH ST	
60	1815	IL I/HALSTED ST @ 163RD ST	
61	1820	IL 1/HALSTED ST @ 167TH ST	
62	3385	IL 83/147TH ST-SIBLEY BLVD @ BR	
63 64	1765	IL 83/147TH ST-SIBLEY BLVD & IL	
64 65	3470 3510	IL 83/147TH ST-SIBLEY BLVD & LO	
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68	13820	PARK AVE & 154TH ST	
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70	13830	PARK AVE @ 157TH ST	
71	1805	IL 1/HALSTED ST @ 152ND ST	
72	1760	IL 1/HALSTED ST & IL 1/VINCENNES	S AVE
73	5345	INDIANA AVE © 137TH ST	
74 75	5350	INDIANA AVE @ 138th ST	
76 76	1795 9140	IL I HALSTED ST © 138TH ST IL 1/HALSTED ST © 144TH ST	
77	4045	138TH ST & ASHLAND AVE/WOOD ST	
78	9135	IL 1/HALSTED ST @ 134TH/FOREST	
79	3440	IL 83/147TH ST-SIBLEY BLVD @ INI	
80	210	US 6/159th ST & COTTAGE GROVE	
81	295	US 6/159TH ST & STATE ST/INDIAN	A AVE
82 87 A t	12102	STATE ST & ARMORY OR	
83-84	225	US 6/159TH ST @ ELLIS AVE	
85 86	285	US 6/159TH ST & SCHOOL ST	CHICKCO PD
87	290 11114	US 6/159TH ST & SOUTH PARK AVE 135TH ST & KEDZIE AVE	CINCAGU MU
- 1			
		USER NAME = Brion Scifors	DESIGNED - KJP
ste.dgn			DRAWN - DLW
		PLOT SCOLE & 40,2000 1 / 10.	CHECKED - BKS

### **GENERAL NOTES**

ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC), AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS: ADOPTED JANUARY 1, 2014 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO; IN CASE OF CONFLICT, THE MORE RESTRICTIVE PROVISIONS SHALL APPLY. ANY REFERENCE TO STANDARDS IN THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT ACENCIES, AND IDOT.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARIMENT.

WHENEVER. DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY, AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS, THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT, THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL NOTIFY THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL SOLELY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEOUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THES PROJECT OR THE DIRECTION OF THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS, THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS SIGNAL POST, UNINTERRUPTIBLE POWER SUPPLY ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES, AND HOT UNDERGOUND'FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES, AND HOT FOR LOCATES. THE CONTRACTOR SHALL CALL 'JULIE' AT (800)892-0123 OR BIL IN THE CITY OF CHICAGO CONTACT DIGGER AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

AT LOCATIONS ON THE PLANS WHERE TRAFFIC SIGNAL POST REMOVAL AND NEW TRAFFIC SIGNAL POST INSTALLATIONS ARE SPECIFIED, THE CONTRACTOR SHALL INSPECT THE EXISTING POST FOUNDATIONS, PRIOR TO REMOVING THE EXISTING TRAFFIC SIGNAL POST TO BE REPLACED, THE CONTRACTOR SHALL VERIFY THAT THE EXISTING CONDITION OF THE ANCHOR BOLT IS ACCEPTABLE. IF THE EXISTING ANCHOR BOLT CONDITION IS NOT ACCEPTABLE, THE CONTRACTOR SHALL REPLACE ANCHOR BOLT AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE PAID FOR THE NUMBER OF TRAFFIC SIGNAL POSTS INSTALLED AND NO OTHER COMPENSATION WILL BE PROVIDED.

THE CONTRACTOR SHALL RELOCATE ANY EXISTING TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, AND PEDESTRIAN PUSH-BUTTONS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A NEW POST AS SHOWN ON THE PLANS, EXCEPT AS SHOWN TO BE REPLACED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION, AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE TRAFFIC SIGNAL POST PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.

THE CONTRACTOR SHALL RELOCATE ANY EXISTING SIGN PANELS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A NEW POST AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION, AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.

CONTRACTOR SHALL REPLACE ALL EXISTING TRAFFIC SIGNAL AND PEDESTRIAN BRACKETS TO NEW POLYCARBONATE BRACKETS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING SIGNAL HEAD, LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES, AND SECTIONS AS SPECIFIED IN THE PLANS. FOR TS 4060, TS 11460. AND TS 3475 LOCATIONS, DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF DOLTON AND REDSPEED ILLINOIS, LLC PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OF DOLTON OR REDSPEED ILLINOIS, LLC SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

> VILLAGE OF DOLTON 141014 PARK AVENUE DOLTON, IL 60419 (708) 849-4000

FOR TS 3995, TS 4575, AND TS 11380 LOCATIONS, DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE CITY OF BLUE ISLAND AND REDFLEX TRAFFIC SYSTEMS PRIOR TO THE START OF CONSTRUCTION. THE CITY OF BLUE ISLAND OR REDFLEX TRAFFIC SYSTEMS SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

> CITY OF BLUE ISLA 13051 S. GREENWOOD BLUE ISLAND, IL 60 (708) 597-8603

FOR TS 9401 LOCATION, DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF RIVERDALE AND REDFLEX TRAFFIC SYSTEMS PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OF RIVERDALE OR REDSPEED ILLINDIS, LLC TRAFFIC SYSTEMS SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

> VILLAGE OF RIVERDA 157 W. 144TH ST. RIVERDALE, IL 6082 (708) 841-2200

FOR TS 210 AND TS 295 LOCATIONS, DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF SOUTH HOLLAND AND REDFLEX TRAFFIC SYSTEMS PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OF SOUTH HOLLAND OR REDFLEX TRAFFIC SYSTEMS SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

> VILLAGE OF SOUTH 16226 WASAU AVE. SOUTH HOLLAND, IL (708) 210-2910

FOR TS 3972 LOCATION, DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF CALUMET PARK AND REDFLEX TRAFFIC SYSTEMS PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OF CALUMET PARK OR REDFLEX TRAFFIC SYSTEMS SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION, ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

> VILLAGE OF CALUME 12409 SOUTH THROO CALUMET PARK, IL ( (708) 389-0850

FILE NAME #	USER NAME & Brian Salfara	DESIGNED - KJP	REVISED -					F.A.	SECTION	COUNTY	TOTAL SHEET			
0160X24-aht-gennete.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS AND GENERAL NOTES							2013-052TS	сорк	87 2
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION								2010 032.5	CONTRAC	T NO. 60X24
Befault	PLOT DATE + 10/8/2013	DATE -	REVISED -		SCALE	SHEET	QF	SHEETS	STA.	TO STA.	1	ILLINOIS FED. A	ID PROJECT	

N	REDSPEED ILLINOIS, LLC
Æ	400 EISENHOWER LANE NORTH
	LOMBARD, IL 60148
	(630) 387-5700

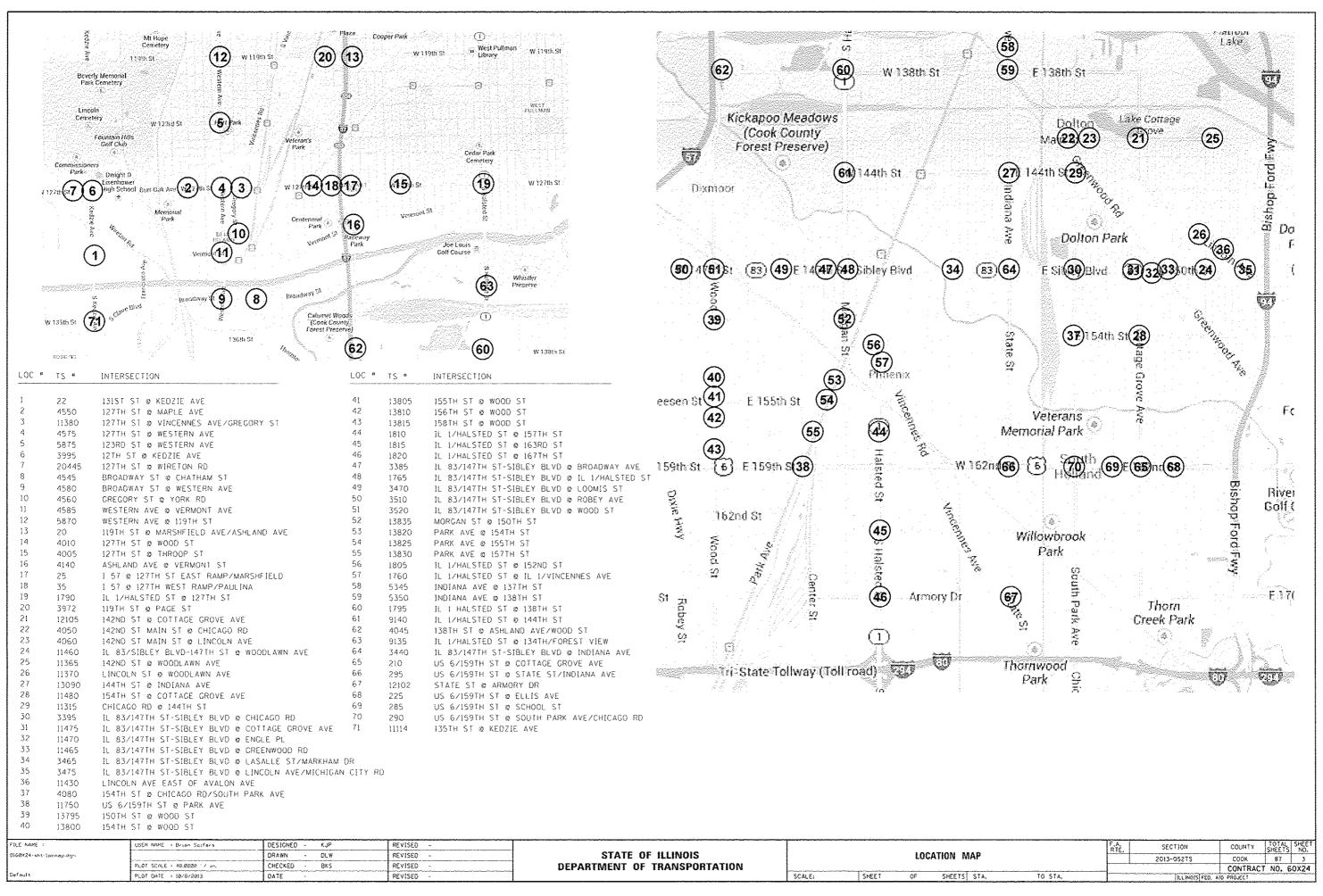
AND	REDFLEX TRAFFIC SYSTEMS
D AVENUE	15020 N 74TH STREET
0406	SCOTISDALE, AZ 85260
	(480) 607~0705

)ALE	REDSPEED ILLINOIS. LLC
	400 EISENHOWER LANE NORTH
27	LOMBARD, IL 60148
	(630) 387~5700

HOLLAND	REDFLEX TRAFFIC SYSTEMS
	15020 N 74TH STREET
60473	SCOTTSDALE, AZ 85260
	(480) 607-0705

ET PARK	REDFLEX TRAFFIC SYSTEMS
)P	15020 N 74TH STREET
60827	SCOTTSDALE, AZ 85260
	(480) 607-0705





					FUN	DING PART	ICIPATION		
COLUMN NUMBER	I T'S#	INTERSECTION	STATE	BLUE ISLAND	CALUMET PARK	CHICAGO	DOLTON	415110	WORTH
2	22	131ST ST @ KEDZIE AVE 🗶	95%					2.5%	2.5%
3	4550	127TH ST @ MAPLE AVE	95%	5%					
1	11380	127TH ST @ VINCENNES AVE/GREGORY ST	100%						~
1	4575	127TH ST @ WESTERN AVE	100%						
3	5875	123RD ST @ WESTERN AVE	95%	5%					
1	3995	127TH ST @ KEDZIE AVE	100%			[			
1	20445	127TH ST @ WIRETON RD	100%						
3	4545	BROADWAY ST @ CHATHAM ST	95%	5%					
1	4580	BROADWAY ST @ WESTERN AVE	100%						
3	4560	GREGORY ST @ YORK RD	95%	5%					
1	4585	WESTERN AVE @ VERMONT AVE	100%						
3	5870	WESTERN AVE @ 119TH ST	95%	5%			-		
4	20	119TH ST @ MARSHFIELD AVE/ASHLAND AVE	96.25%		1.25%	2.5%			
5	4010	127TH ST @ WOOD ST	96.25%		3.75%		1		
6	4005	127TH ST @ THROOP ST	95%		5%		1		
1	4140	ASHLAND AVE @ VERMONT ST	100%		. :		1		
1	25	I 57 @ 127TH ST EAST RAMP/MARSHFIELD	100%			ļ	1		
1	35	I 57 @ 127TH WEST RAMP/PAULINA	100%						
1	1790	IL 1/HALSTED ST @ 127TH ST	100%						
6	3972	119TH ST @ PAGE ST	95%		5%		1		
7	12105	142ND ST @ COTTAGE GROVE AVE	95%				5%		
1	4050	142ND ST MAIN ST @ CHICAGO RD	100%						
1	4060	142ND ST MAIN ST @ LINCOLN AVE	100%						
7	11460	IL 83/SIBLEY BLVD-147TH ST @ WOODLAWN AVE	95%				5%		
8	11365	142ND ST @ WOODLAWN AVE	96,7%				3.3%		
7	11370	LINCOLN ST @ WOODLAWN AVE	95%				5%		
7	13090	144TH ST @ INDIANA AVE	95%				5%		
10	11480	154TH ST @ COTTAGE GROVE AVE	92.5%				5%		2.5%
7	11315	CHICAGO RD @ 144TH ST	95%				5%		
1	3395	IL 83/147TH ST-SIBLEY BLVD @ CHICAGO RD	100%						
9	11475	IL 83/147TH ST-SIBLEY BLVD @ COTTAGE GROVE AVE	97.5%				2.5%		
8	11470	IL 83/147TH ST-SIBLEY BLVD @ ENGLE PL	96.7%				3.3%		
7	11465	IL 83/147TH ST-SIBLEY BLVD @ GREENWOOD RD	95%				5%		
11	3465	IL 83/147TH ST-SIBLEY BLVD @ LASALLE ST/MARKHAM DR	95%				2.5%	2.5%	
1	3475	IL 83/147TH ST-SIBLEY BLVD @ LINCOLN AVE/MICHIGAN CITY RD	100%				1		

		SUMMARY OF QUANTIT	IES HEA	DING LE	GEND				
					FUND	ING PART	ICIPATION		
COLUMN	1 1 5 2	INTERSECTION	STATE	DOLTON	HARVEY	PHOENIX	RIVERDALE	SOUTH HOLLAND	ROBINS
8	11430	LINCOLN AVE EAST OF AVALON AVE	96.7%	3.3%					
12	4080	154TH ST @ CHICAGO RD/SOUTH PARK AVE	97%	1.5%				1.5%	
1	11750	US 6/159TH ST @ PARK AVE	100%						
13	13795	150TH ST @ WOOD ST	95%		5%			·	
13	13800	154TH ST @ WOOD ST	95%		5%				
13	13805	155TH ST @ WOOD ST	95%		5%				
13	13810	156TH ST @ WOOD ST	95%		5%				
13	13815	158TH ST @ WOOD ST	95%		5%				
13	1810	IL 1/HALSTED ST @ 157TH ST	95%		5%				
13	1815	IL 1/HALSTED ST @ 163RD ST	95%		5%				
13	1820	IL 1/HALSTED ST @ 167TH ST	95%		5%				
14	3385	IL 83/147TH ST-SIBLEY BLVD @ BROADWAY AVE	97.5%		2.5%		·····		<b>r</b>
1	1765	IL 83/147TH ST-SIBLEY BLVD @ IL 1/HALSTED ST	100%						
1	3470	IL 83/147TH ST-SIBLEY BLVD @ LOOMIS ST	100%						
13	3510	IL 83/147TH ST-SIBLEY BLVD @ ROBEY AVE	95%		5%				
1	3520	IL 83/147TH ST-SIBLEY BLVD @ WOOD ST	100%						
13	13835	MORGAN ST @ 150TH ST	95%		5%				
14	13820	PARK AVE @ 154TH ST	96.7%		3.3%			<u> </u>	
15	13825	PARK AVE @ 155TH ST	93.33%		6.67%				
13	13830	PARK AVE @ 157TH ST	95%		5%				
16	1805	IL 1/HALSTED ST @ 152ND ST	95%			5%			
17	1760	IL 1/HALSTED ST @ IL 1/VINCENNES AVE	96.7%			3.3%			
18	5345	INDIANA AVE @ 137TH ST	97.5%				2.5%		
1	5350	INDIANA AVE @ 138th ST	100%						<u>.</u>
1	1795	IL 1 HALSTED ST @ 138TH ST	100%						
19	9140	IL 1/HALSTED ST @ 144TH ST	95%				5%		•
1	4045	138TH ST @ ASHLAND AVE/WOOD ST	100%						
19	9135	IL 1/HALSTED ST @ 134TH/FOREST VIEW	95%				5%	·····	
20	3440	IL 83/147TH ST-SIBLEY BLVD @ INDIANA AVE	97.5%					2.5%	[
21	210	US 6/159TH ST @ COTTAGE GROVE AVE	95%					5%	
20	295	US 6/159TH ST @ STATE ST/INDIANA AVE	97.5%					2.5%	[
22	12102	STATE ST @ ARMORY DR	96.7%					3.3%	
21	225	US 6/159TH ST @ ELLIS AVE	95%				······	5%	
21	285	US 6/159TH ST @ SCHOOL ST	95%					5%	
1	290	US 6/159TH ST @ SOUTH PARK AVE/CHICAGO RD	100%						
23	11114	135TH ST @ KEDZIE AVE	95%				·····		5%

\* 2,5% ALSIP/2.5% WORTH

FILE NAME =	USER NAME = Brian Solfars	DESIGNED - KJP	REVISED -			SUMMARY OF OUANTITIES						COUNTY	TOTAL SHE
N6ØX24-sht-S001.dgn		DRAWN - KJP	REVISEO -	STATE OF ILLINOIS							SECTION 2013-05215		SHELIS N
	PLOT SCALE + 40.0000 1/ 10.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		(SHEET 1 OF 3)					2013-03213	CONTRACT	NO. 60X2
iafault.	PLOT DATE + 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	ØF	SHEETS STA.	TO STA.		The INDIS FE	LUNIRALI	NUL BUXZ

CODE	ITEM	UNIT	TOTAL	1 2	3	4	5	6	7	8 9		11	1	SIGN	3 14	15	16	17	18	19 2	20 21	22	2:
NO.	11EM	UNII	QUANTITIY				· · · · · · · ·						URE						T				
7000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6									1			_							
7100100	MOBILIZATION	L SUM		1		<u> </u>							1		_			+					<u> </u>
0102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		<u> </u>								_		-		<u>+</u>		<u> </u>		<u> </u>	_
5000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	71	22 1	5	1	1	2	6	3	1 1	1	1	11	1 2	1	1			2 3	2 3	1	<u> </u>
7502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	12	1		<u> </u>							2	2							4	<u> </u>	
502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	62	15	2				2	2				3 14	1	3	4	2	3	2	8		
502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	1			-					_		1					1				·	<u> </u>
502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	25	6					2			_		1 2	4	1	<u> </u>	<u> </u>		3	3	<u> </u>	
502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1									_						<u> </u>					
3030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	61	6					4	2		_		1 14	1 8	6	2	2		2	9	<u> </u>	
3030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	56	19	4									3 9	2	1		1	4	2	11		
030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2															2					
030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5												4					1			
3030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	13	3							-			1	4			<u> </u>		2			
3030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	51	5	4				4	2				1 18	3 3	3	2	2	4	1	1		+
030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	13	6									1	1			<u> </u>			3		<u> </u>	
3030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3										<u> </u>			1	2						
055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5											1		2					2		+
3055190	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2														<u> </u>				2	·	
055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2													_					2		
3102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	182	56	24	4	4	10	8	2		4	(	3 36	3 6	8					2 10		
3102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	63	19	4	1			2		4	2		15	9 4	2					1 2		
3200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	81	9					4	2				2 15	5 12	8	2	2		4	13	3	
3800100	PEDESTRIAN PUSH-BUTTON	EACH	129	34	24	5	4	10	2	2			. (	3 20	0 6	-	<u> </u>	<u> </u>			8		
9502210	MODIFY EXISTING CONTROLLER CABINET	EACH	67	21 1	5		1	1	5	3	1 1	1	1	1 11	1 2	1	1	1	1	2 2	2 3		
9502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	60	18	4	1	1	2	5	1	1	1	+-	1 11	1 2	1	1	1	1	2	1 3	1	
3620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	2	2												_	<u> </u>	<u> </u>				<u> </u>	_
620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	65	19 1	5		1	1	5	3	1 1	1		1 1	1 2	1	1	1		2	2 3	1	
	USER NRME = Brian Salfary DESIGNED ~ KJP REVISED ~	l	<u> </u>	<u> </u>		I			L						<u> </u>			F.A. RTE.	<u> </u>	CTION		COUNTY	TO
\$002.dgn	DRAWN - KJP REVISED -	STATE DEPARTMENT (	OF ILLINOIS						1	SUMMAI	RY OF 1 1eet 2		ITTES	)			μ	ITE.	······	-05215			8

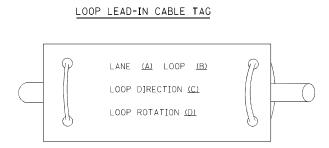
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000010		54.00				<b>_</b>	<u> </u>					<u> </u>										
	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	3	2		+	++			_		<u> </u>								1		
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	46	18		<u> </u>		6		3		2		14								2
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	101	40				2	8		4	6		34								3
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	58	25			-		8	1	4	2		10						7		1
	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4	3																		1
	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1							1		<u> </u>								-		
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	46	20					6	1	4	2		10								3
	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	4						1											3		
80015	PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	88	27	4	1			8		4	6		27	4					3	5	
0110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	2													2						
16604	TRAINEES - TRAINING PROGRAM BRADUATE	HOUR	500	500								1								-		
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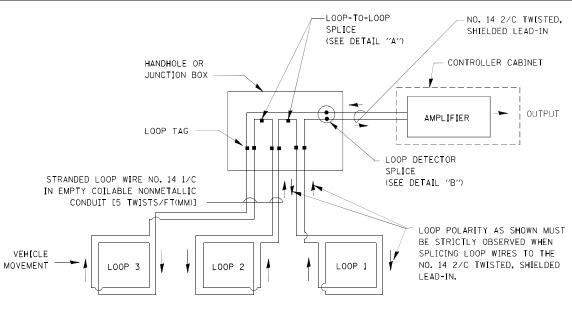
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0160×24-sht-5003.dgn		ORAWN - KJP	REVISED -	STATE OF ILLINOIS				IEET 3 OF 3)	,	1.1.5.	2013-05215	СООК	87 6
<b>A A C</b>	PLOT SCALE : 40.0000 1 in.	CHECKED - 8KS	REVISED -	DEPARTMENT OF TRANSPORTATION	ļ			icci a uraj				CONTRAC	T NO. 60X24
Defouit	PLOT DATE = 10/8/2013	DATE -	REVISED ~		SCALE:	SHEET	ØF	SHEETS STA.	TO STA.		ILL INDIS FED.	AID PROJECT	

### LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

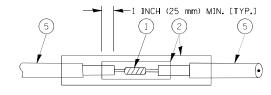


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



### DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IE 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

(6) (2)(7)(6)

### DETAIL "A" LOOP-TO-LOOP SPLICE

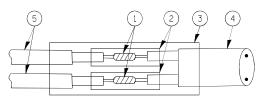
LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES (1) WESTERN UNION SFLIGE SOLUTION OF THE SOLDER SHALL BE SMOOTH.

- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP

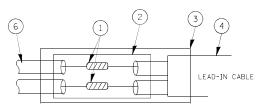
XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -	_		DISTRICT ONE	F.A. RTF.	SECTION	COUNTY TOTAL	SHEET
c:\pw_work\PWIDOT\BAUERDL\d0108315\ts	5.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS				2013-052TS	COOK 87	12
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS05	CONTRACT NO. 60	JX24
	PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. ROAD DIS	ST. NO. 1 ILLINOIS FED	D. AID PROJECT	



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

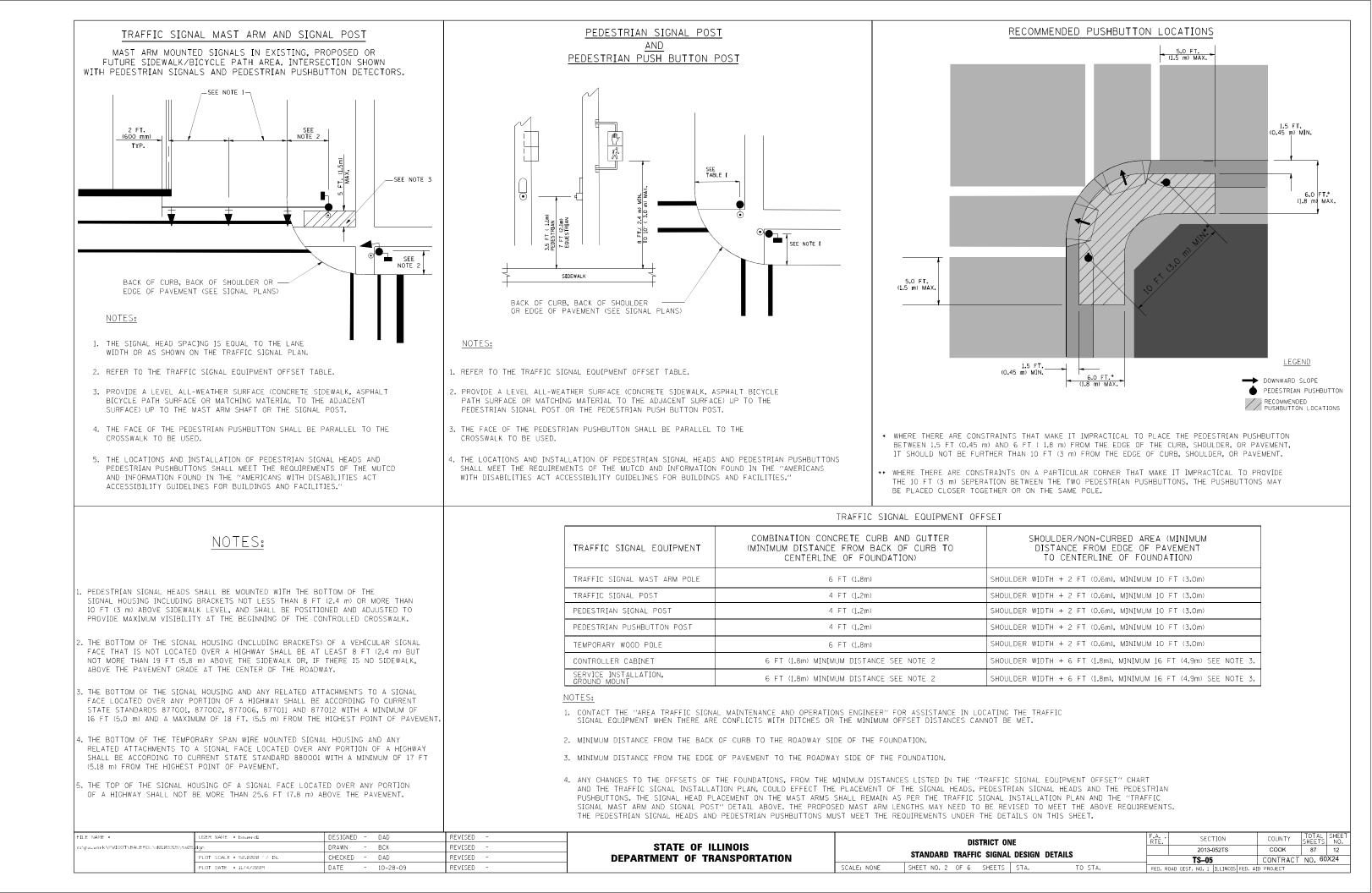


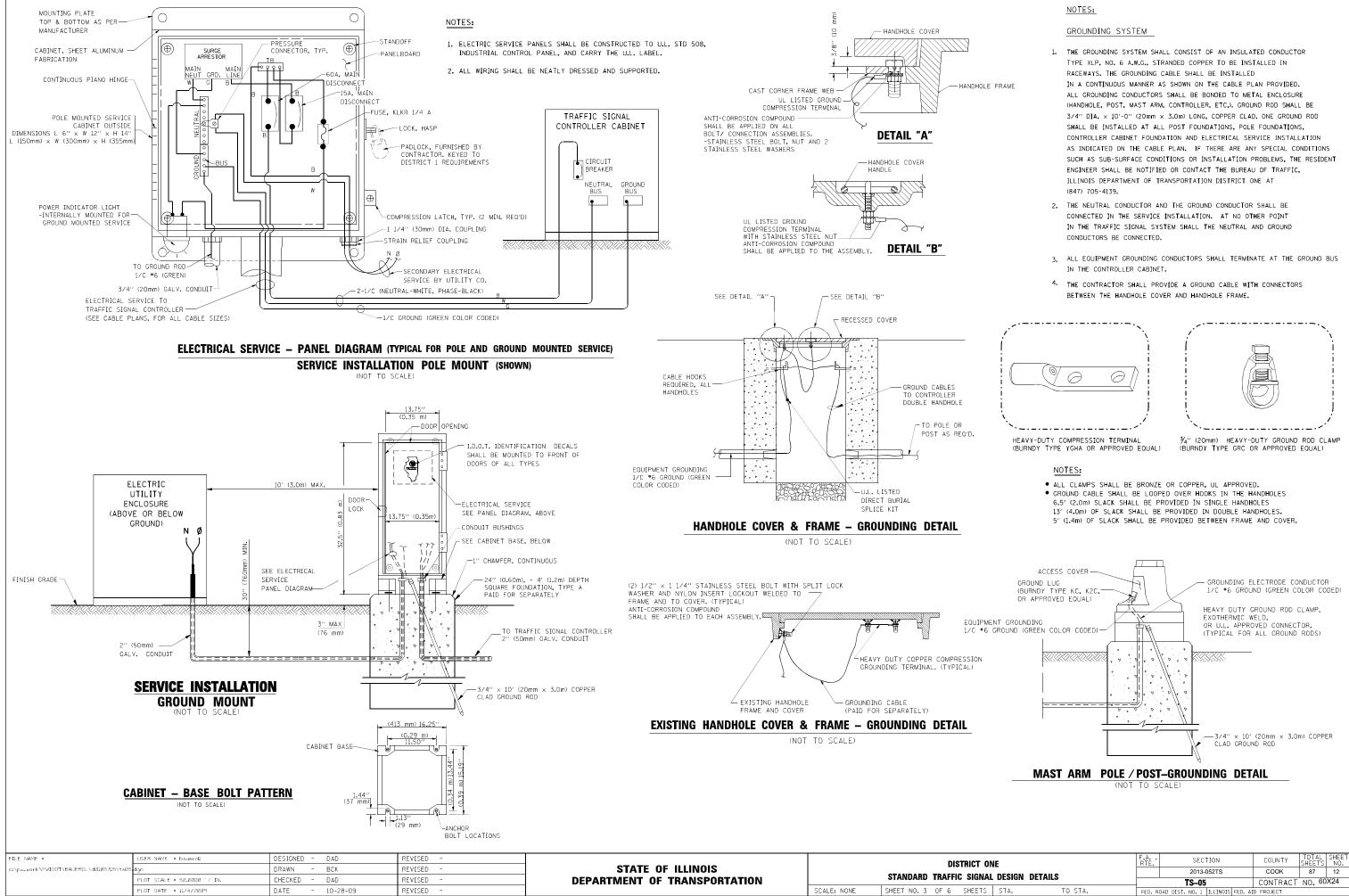
PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

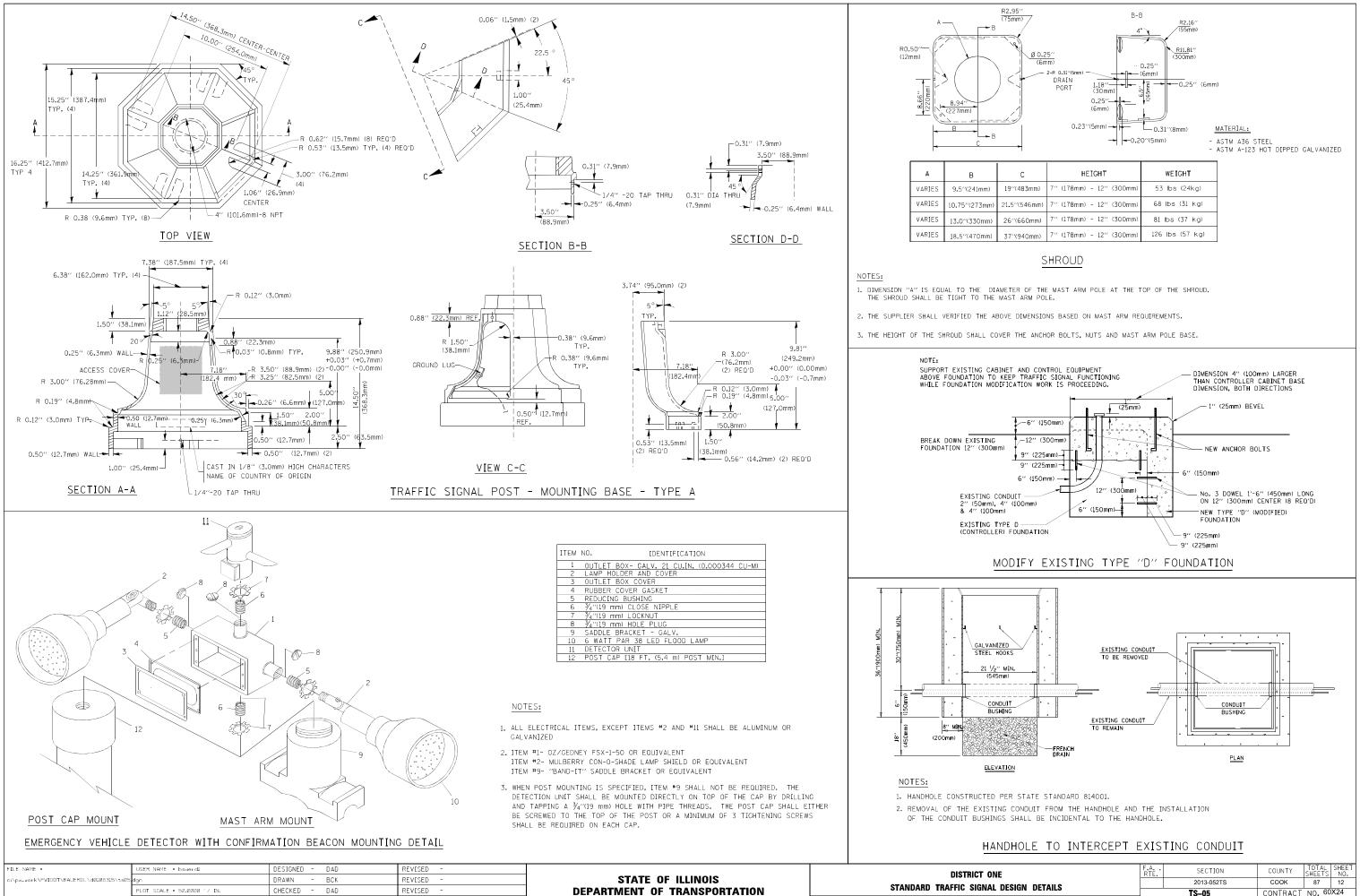
(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.







DN	NE		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
	DESIGN I	DETAILS	2013-052TS COO								
AL	. DESIGN I	JETAILS		TS-05	CONTRACT	NO. 60	X24				
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PLOT DATE = 11/4/2009

DATE

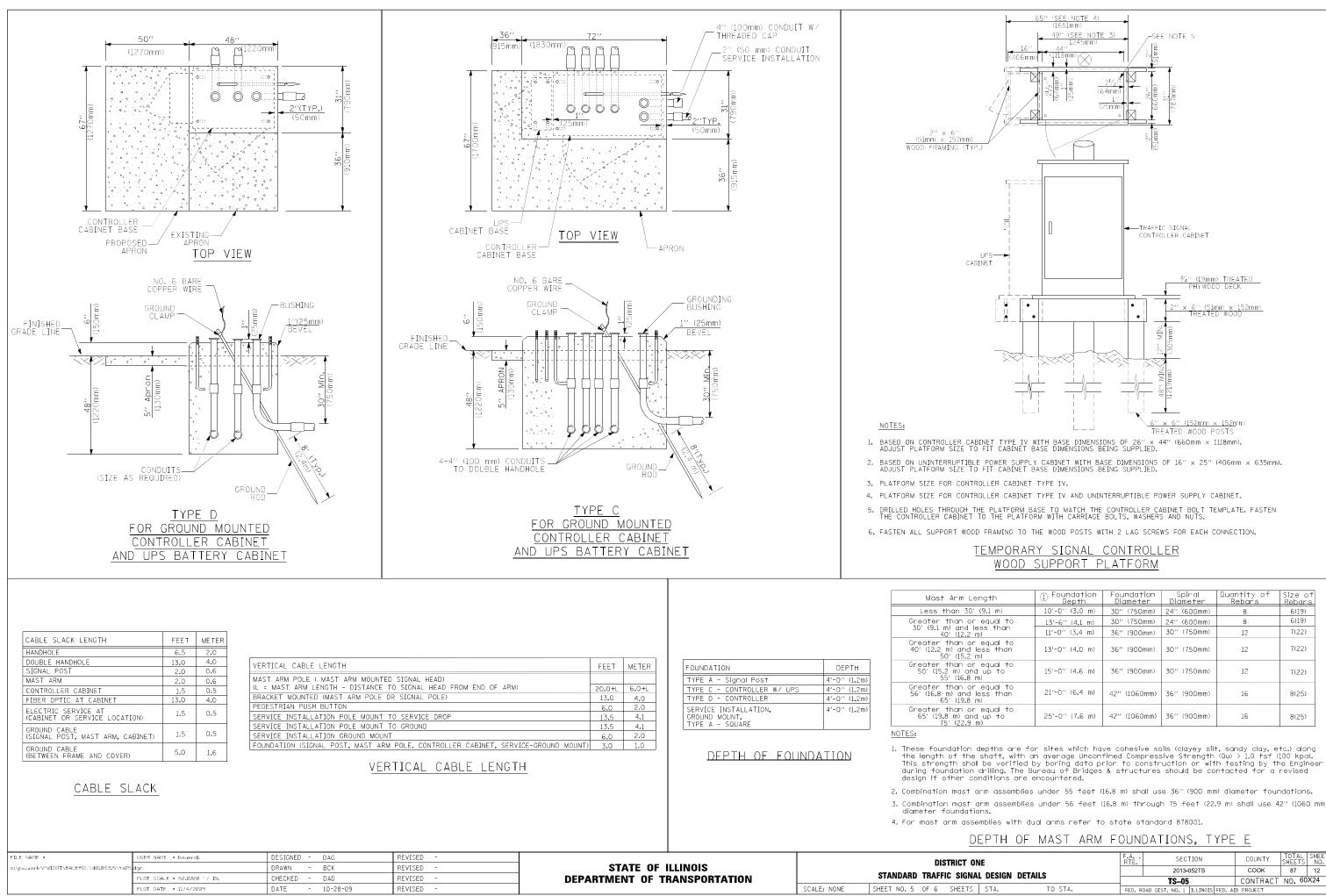
- 10-28-09

REVISED

SCALE: NONE

SHEET NO. 4 OF 6 SHEETS

A 1	. DESIGN DETA	e				2013	-052TS		СООК	87	12	-
41	DESIGN DETA	ilə			1	'S-0	5		CONTRACT	NO. 60	X24	
	STA.	TO STA.	FED. R	I DAO	DIST.	NO. 1	ILLINOIS	FED. A	ID PROJECT			



.ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
′ (9.1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
r equal to	13'-6'' (4.1 m)	30" (750mm)	24'' (600mm)	8	6(19)
less than m)	11'-0'' (3.4 m)	36" (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	13'-0'' (4.0 m)	36" (900mm)	30'' (750mm)	12	7(22)
r equal to nd up to m)	15'-0'' (4.6 m)	36" (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
r equal to nd up to m)	25'-0'' (7.6 m)	42″ (1060mm)	36'' (900mm)	16	8(25)

	IE		F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	L DESIGN DETA	ii e		2013-052TS	COOK	87	12
	L DESIGN DETA	LJ		TS-05	CONTRACT	NO. 60	X24
5	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

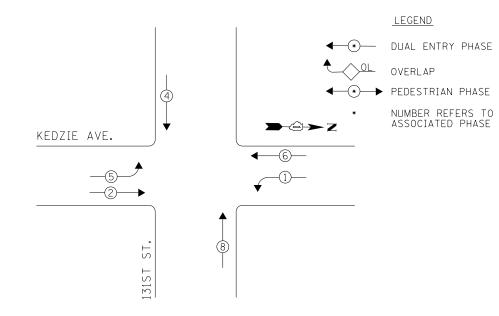
## TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	$\bowtie^{R}$	$\bowtie$		EMERGENCY VEHICLE LIGHT DETECTOR	$\mathbb{R}$	$\sim$	-	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			1
RAILROAD CONTROL CABINET		R		CONFIRMATION BEACON	R(I	$\sim \Box$	н			$\prec$	
COMMUNICATIONS CABINET	C C R	ECC	СС	HANDHOLE	R			COAXIAL CABLE		_ <u>_</u>	— <u>c</u> —
MASTER CONTROLLER		EMC	MC		R	H	Π	VENDOR CABLE FOR CAMERA		<u> </u>	
MASTER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	R			COPPER INTERCONNECT CABLE,			
UNINTERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE JUNCTION BOX	R O			NO. 18 3 PAIR TWISTED, SHIELDED		— <u>6</u> —	-6
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	- <u></u> R	-D- <sup>P</sup>	- <b>-</b>	GALVANIZED STEEL CONDUIT	W			FIBER OPTIC CABLE NO. 62.5/125, MM12F		- <u>12</u> F	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	RT	P	P T	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
STEEL MAST ARM ASSEMBLY AND POLE	к. 	0	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125,		/	
ALUMINUM MAST ARM ASSEMBLY AND POLE	C	0		COMMON TRENCH			CT	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		-0-	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	RO-X	0-¤	• *	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		ς	CNC S	GROUND ROD AT (C) CONTROLLER,		<u>_</u>	<u>_</u>
STEEL COMBINATION MAST ARM	RQ	~	•	INTERSECTION ITEM		ī	IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		` <b>∥</b>  ∞	<sup>c</sup> ∥⊨∙
ASSEMBLY AND POLE WITH PTZ CAMERA	হিয়ন্ত্র	ियान	PIZM	REMOVE ITEM	R	1	IF	CONTROLLER CABINET AND	RCF		
SIGNAL POST TEMPORARY WOOD POLE (CLASS 5 OR	RO	0	•	RELOCATE ITEM	RL			FOUNDATION TO BE REMOVED	$\bowtie$		
BETTER) 45 FOOT (13.7m) MINIMUM	R	$\otimes$	۲	ABANDON ITEM	А			STEEL MAST ARM POLE AND	O <sup>RMF</sup>		
GUY WIRE	> <del>R</del>	>	$\succ$	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD	R		-	10// (700) DED WITH 0// (200)		R		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
IGNAL HEAD CONSTRUCTION STAGES IUMBERS INDICATE THE CONSTRUCTION STAGE)			<b>--</b> <sup>2</sup>	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O-X		
SIGNAL HEAD WITH BACKPLATE	+>	+1>	+►			(Y)	R	FOUNDATION TO BE REMOVED			
IGNAL HEAD OPTICALLY PROGRAMMED		- <u></u> >"P"	<b>─</b> ►"'P''	SIGNAL FACE		Ć	G ◀ Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
LASHER INSTALLATION S DENOTES SOLAR POWER)	0-15-11F''	O+>″F″	••"F"			<b>€</b> <b>G</b>	<b>←</b> Υ <b>←</b> G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			IS
PEDESTRIAN SIGNAL HEAD	R -	-[]	-8			R	R	SAMPLING (SYSTEM) DETECTOR			S
PEDESTRIAN PUSHBUTTON DETECTOR	R	۲	۲	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		Ŷ	Y G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	)B	I P I	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R @ aps	© APS	APS			₩¥¥ ₩€ ₩₽₩	<ul><li>▲ Y</li><li>▲ G</li></ul>	EXISTING PREFORMED INTERSECTION LOOP DETECTOR			
ILLUMINATED SIGN "NO LEFT TURN"	R	S					''P''	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	DR		
	P			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
'LLUMINATED SIGN 'NO RIGHT TURN''	$\odot$	$\mathfrak{B}$	$\textcircled{\black}$	12″ (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			[PS]
ETECTOR LOOP, TYPE I											
PREFORMED DETECTOR LOOP		)       	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		× ×	*	RAILROAD	<b>SYMBO</b>	DLS	
MICROWAVE VEHICLE SENSOR	R	J C		PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C C D	₽ K			EXISTING	PROPOSED
/IDEO DETECTION CAMERA	R			RADIO INTERCONNECT				RAILROAD CONTROL CABINET		R	
VIDEO DETECTION ZONE				RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	×	XOX X X	
PAN. TILT, ZOOM CAMERA	R PTZJ	FTZM	FTZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC				FLASHING SIGNAL		XoX	XoX
WIRELESS DETECTOR SENSOR	R		(W)	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		_5_		CROSSING GATE		<u>X0X</u> >>	x₀x⊷
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1)	(1)	CROSSBUCK		×	$\mathbf{F}$
E NAME = USER NAME = bauerdl	DE	SIGNED - DAG/BCK	REVISED -	-		/		DISTRICT ONE	F.A RTE.	SECTION	COUNTY TOTAL S
.pw_work\PWIDOT\BAUERDL\d0108315\ts05.dgn PLOT_SCALE = 50.0000 // :		AWN - BCK ECKED - DAD	REVISED - REVISED -		OF ILLINOIS			STANDARD TRAFFIC SIGNAL DESIGN DETAILS		2013-052TS <b>TS05</b>	COOK 87 CONTRACT NO. 60X2

PLOT SCALE = 50.0000 / IN. CHECKED - DAD REVISED - DEPARTMENT OF TRANSPORTATION STANDARD TRAFFIC	OLOBIAL D	DISTRICT ONE
PLOT SCALE = 50.0000 // IN. CHECKED - DAD REVISED - DEPARTMENT OF TRANSPORTATION STANDARD INAFFIC	SIGNAL D	STANDARD TRAFFIC SIGNAL DE
PLOT DATE = 11/4/2009 DATE - 10-28-09 REVISED - SCALE: NONE SHEET NO. 6 OF 6 S	HEETS S	SHEET NO. 6 OF 6 SHEETS STA

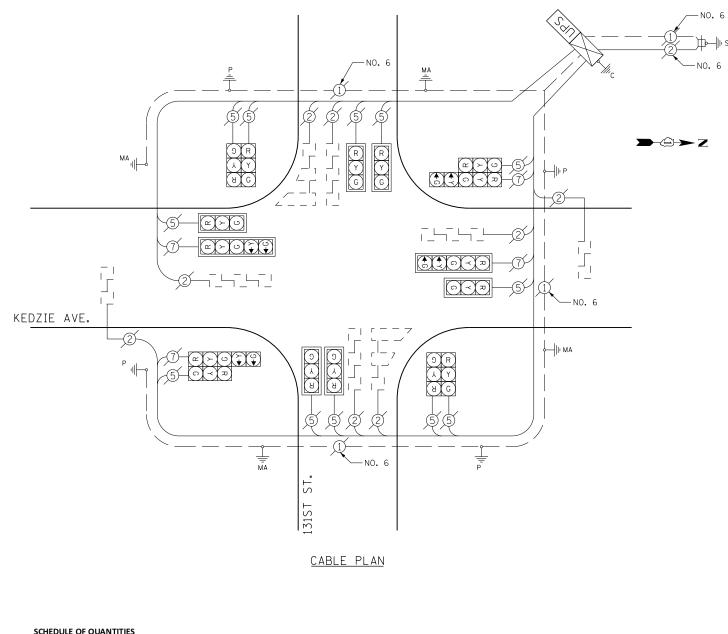


CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

		I. D. O.	-		
	TRAFFIC S				
E	ELECTRICAL	SERVICE	REQUI	REMENTS	
TYPE	NO. LAMPS	WAT	TAGE	20PERATION	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	16		17	0.50	136.0
(YELLOW)	16		25	0.25	100.0
(GREEN)	16		15	0.25	60.0
ARROW	8		12	0.10	9.6
PED SIGNAL	-		25	1.00	-
CONTROLLER	1	100		1.00	100.0
VIDEO SYSTEM		150		1.00	-
BATTERY BACKUP	1	25		1.00	25.0
				TOTAL =	430.6
ENERGY COSTS-	BILL	ED TO:	IDOT	DISTRICT 1	
			201 W	EST CENTER	COURT
			201 W	EST CENTER	COURT
			SCHAU	MBURG, IL 60	0196-1096
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	
	P	HONE	708-3	25-2692	
			COMMO	DNWEALTH ED	ISON
1					

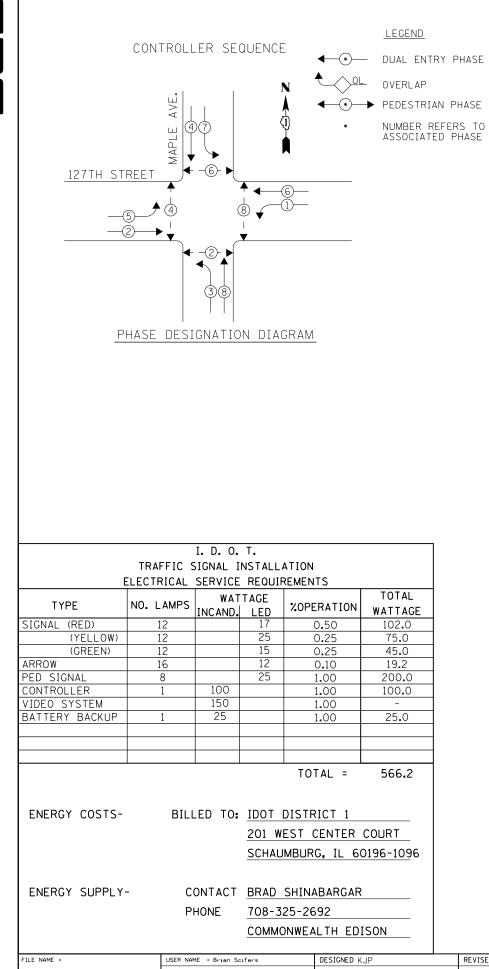


QUANTITIY 1 1 1

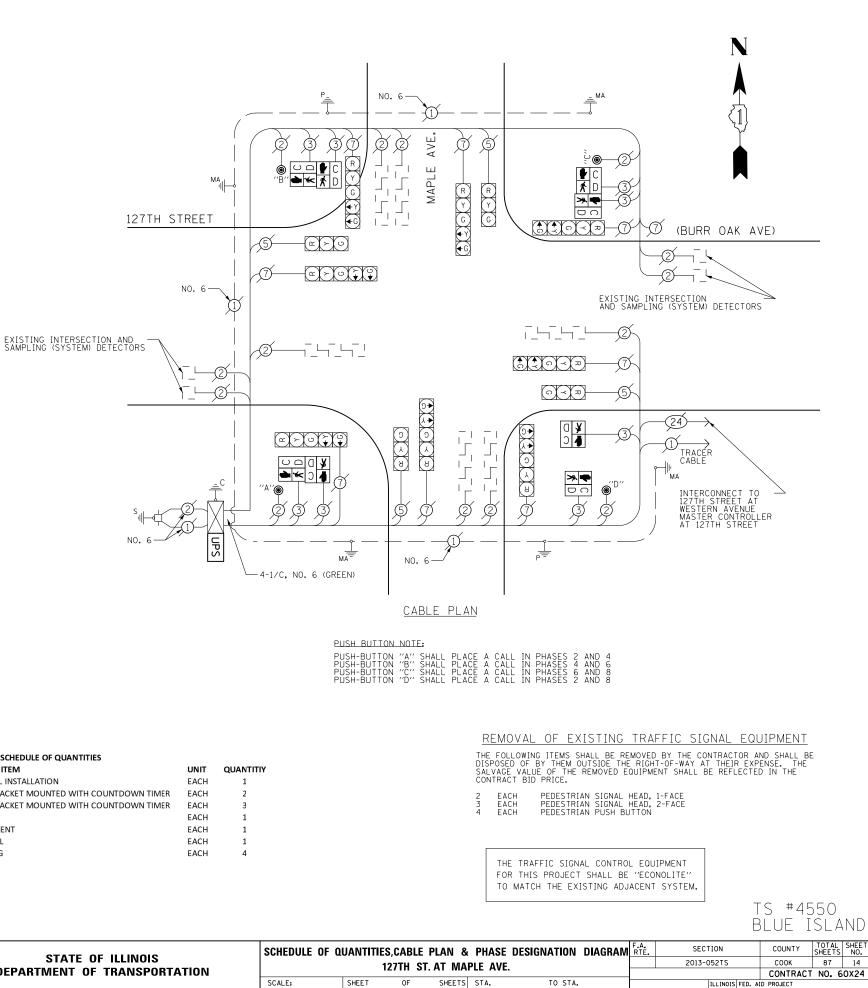
SCHEDU	JLE OF QUANTITIES	
ITEM	UI	NIT
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTAL	LATION EA	ACH
MODIFY EXISTING CONTROLLER CABINET	EA	ACH
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EA	ACH

FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDULE O	F OUANTITI	ES.CABLE	SECTION	COUNTY	TOTAL	SHEET NO.			
D160X24-sht-ts_TS22.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS							2013-052TS	соок	87	13
	PLOT SCALE = 40.0000 ' / in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	KEDZIE AVE AT 131ST ST.							CONTRAC	T NO. 6	0X24
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILL INOIS FED.	AID PROJECT		

TS #2	22
BLUE	ISLAND



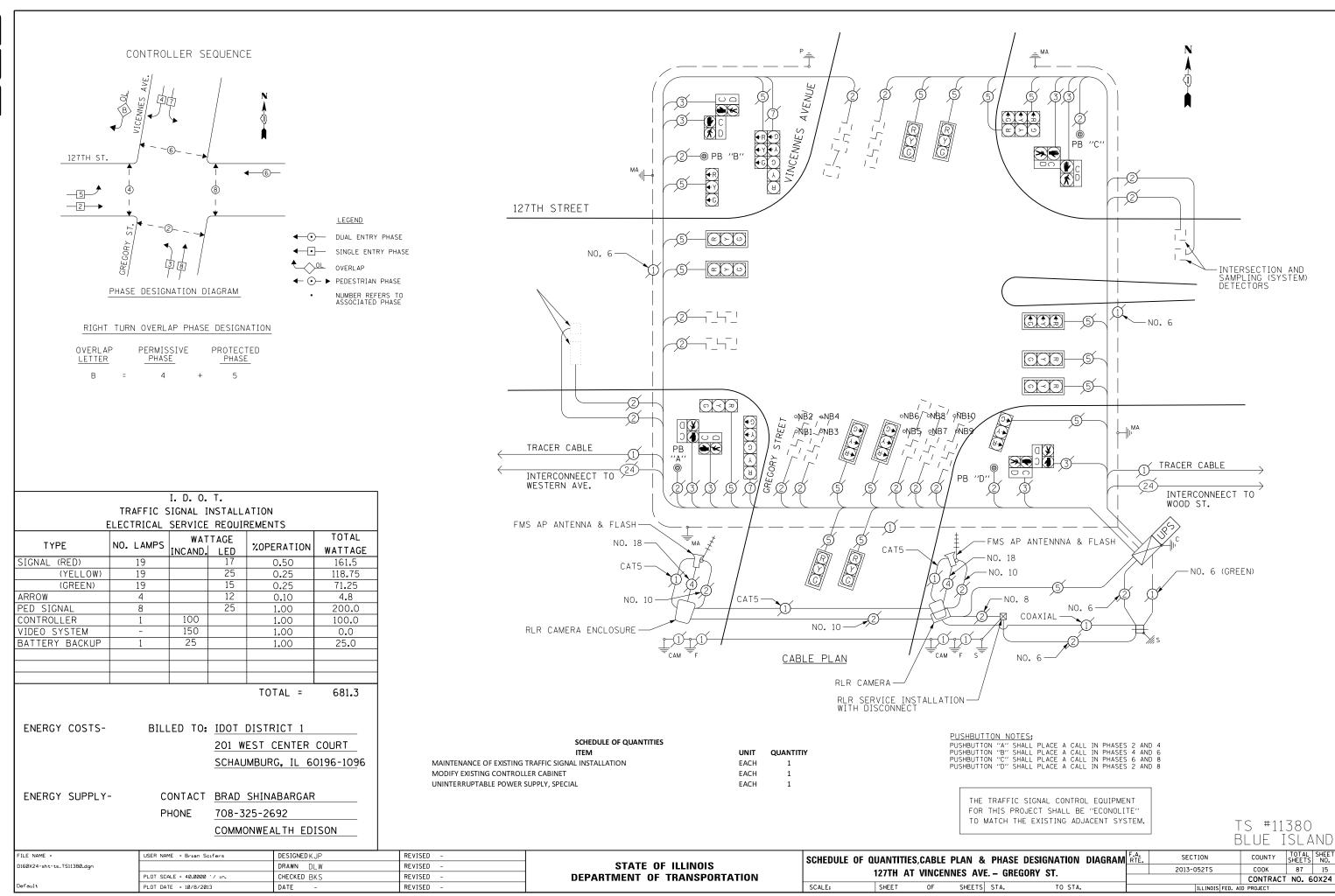
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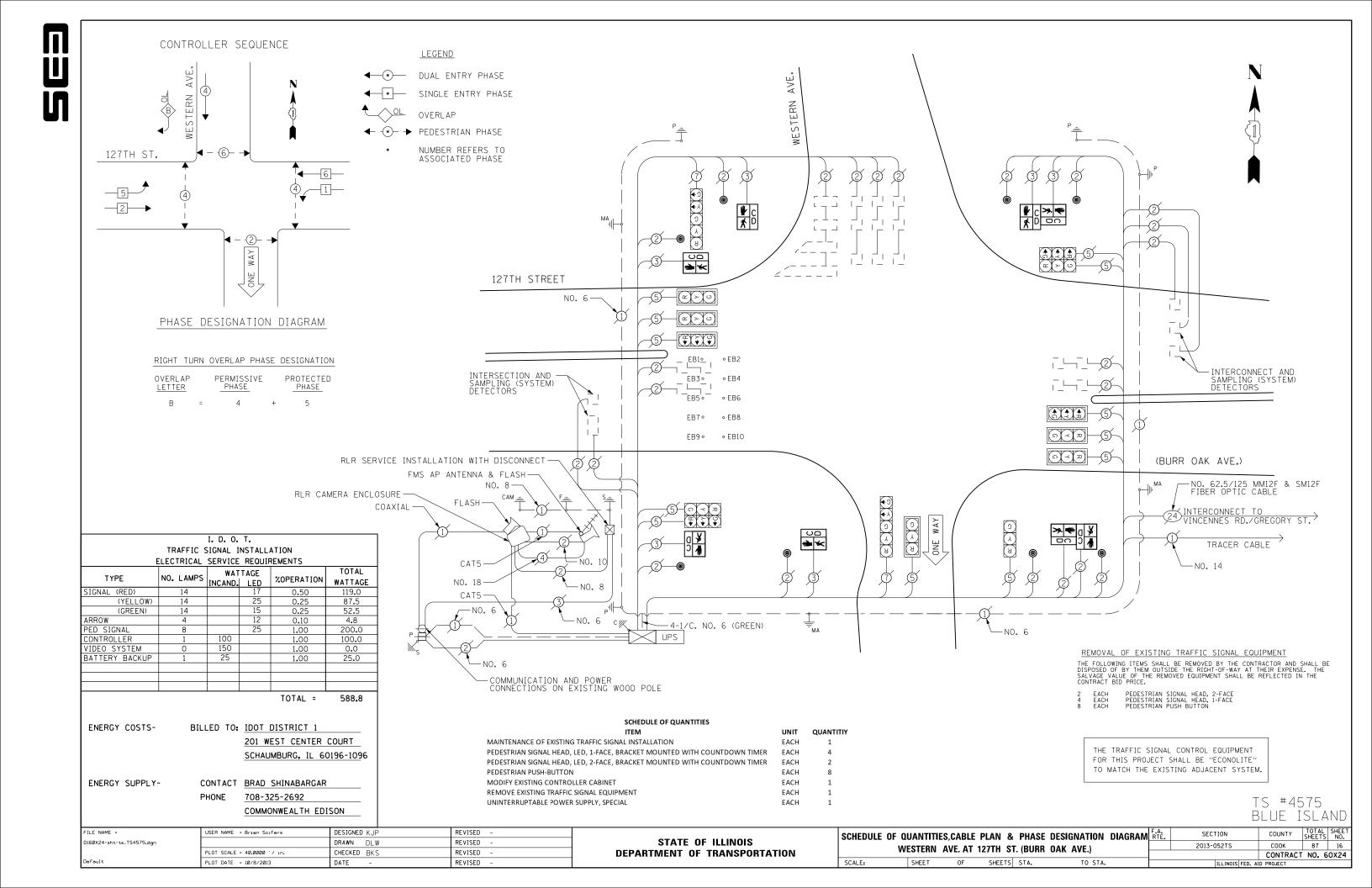
PUSH BUTTON	NOT	E:	
PUSH-BUTTON PUSH-BUTTON PUSH-BUTTON PUSH-BUTTON	"А" "В" "С"	SHALL SHALL SHALL SHALL	F F F

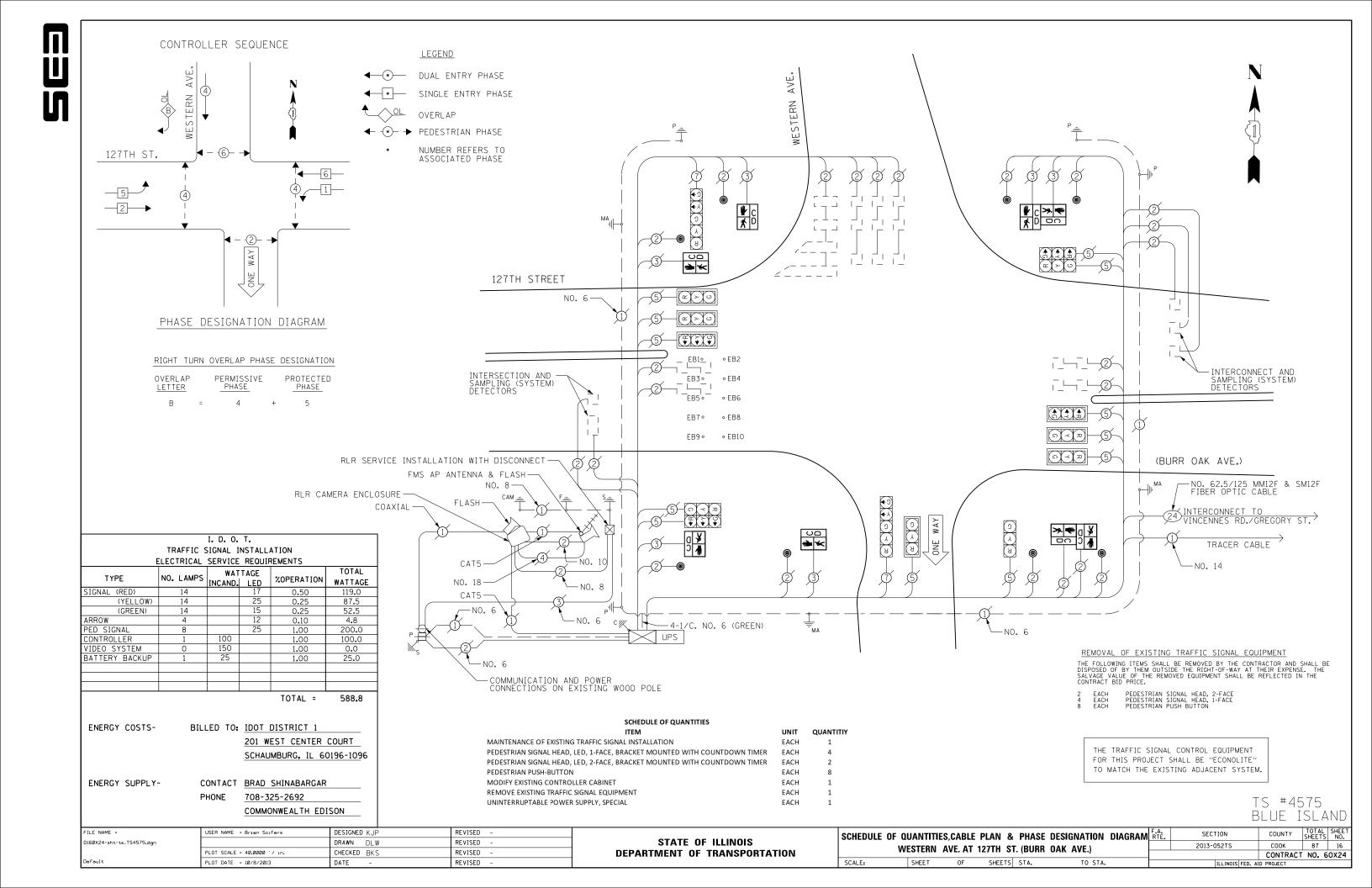
SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	З
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	4

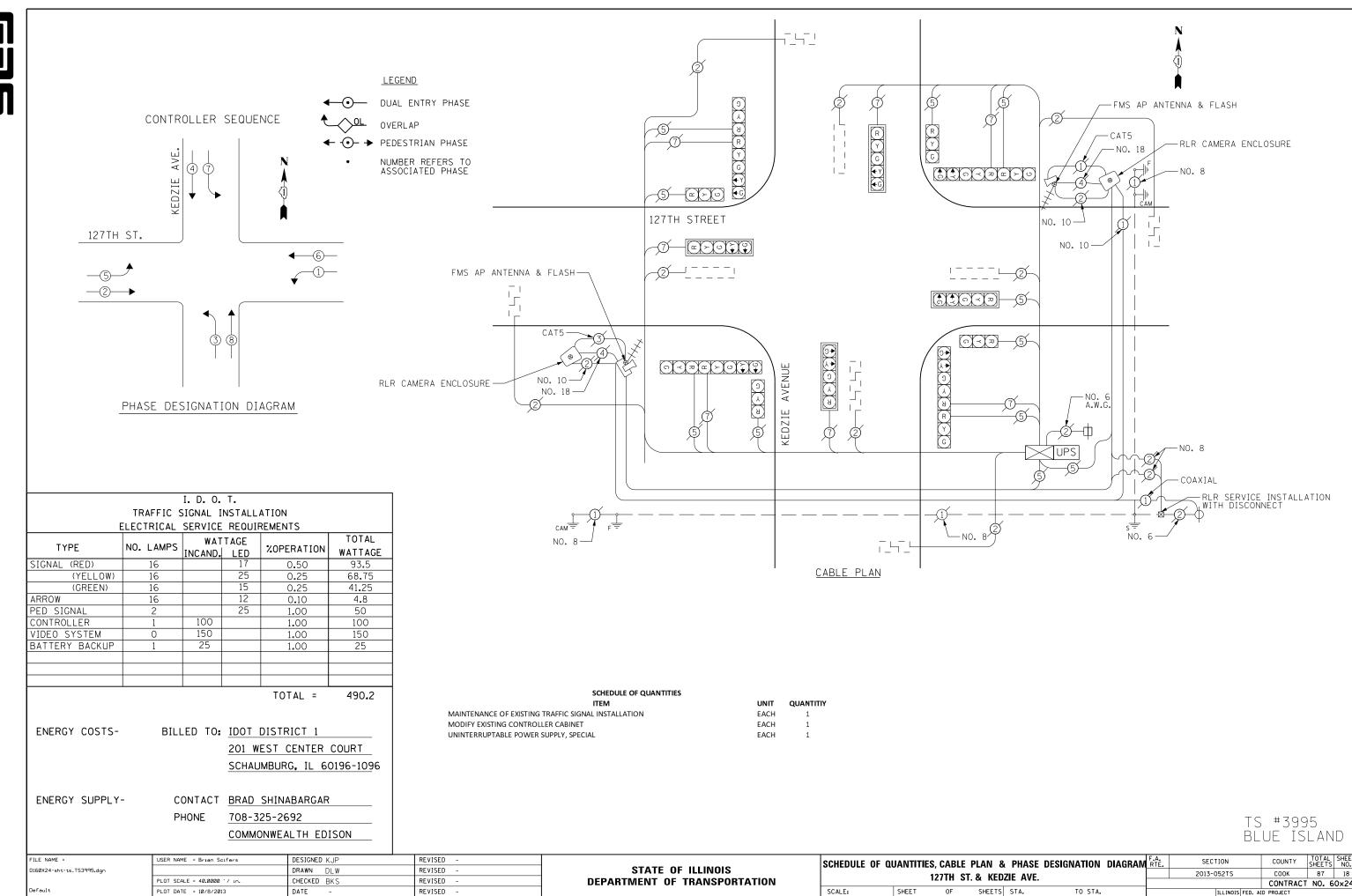
Ē	FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDULE OF O	IIANTITIES	CARLE		
	D160X24-sht-ts_TS4550.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS	SCHEDOLE OF U		,		
		PLOT SCALE = 40.0000 '/ in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		12	2/18 51.	. At Mai	۲L
	Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	



	DRAWN DLW	REVISED -	STATE OF ILLINOIS
PLOT SCALE = 40.0000 ' / in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION
PLOT DATE = 10/8/2013	DATE -	REVISED -	
			•



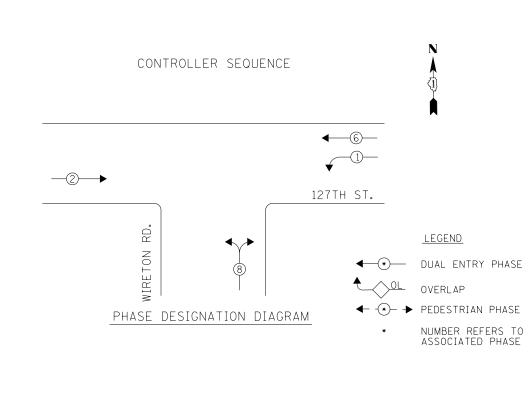


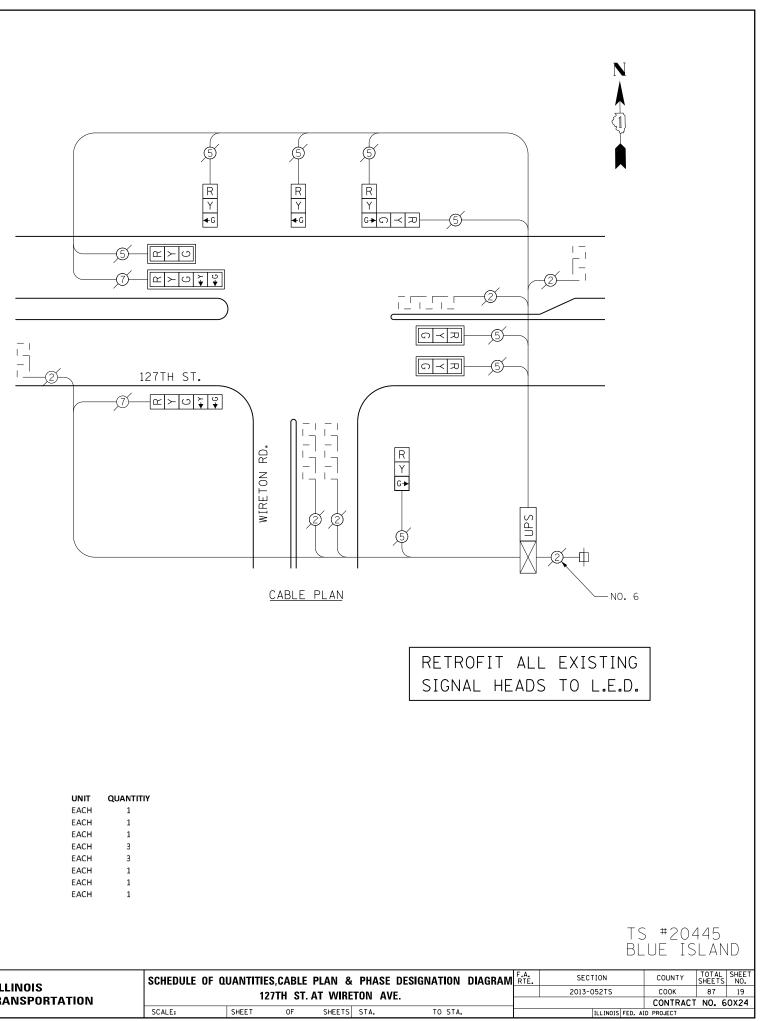


TS #	3995
BLUE	ISLAND

&	PHASE I	DESIGNATION	DIAGRAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
וולח	E AVE.				2013-052TS	СООК	87	18
UZII						CONTRACT	NO. 6	0×24
S S	TA.	TO STA.			ILLINOIS FED. AI	D PROJECT		





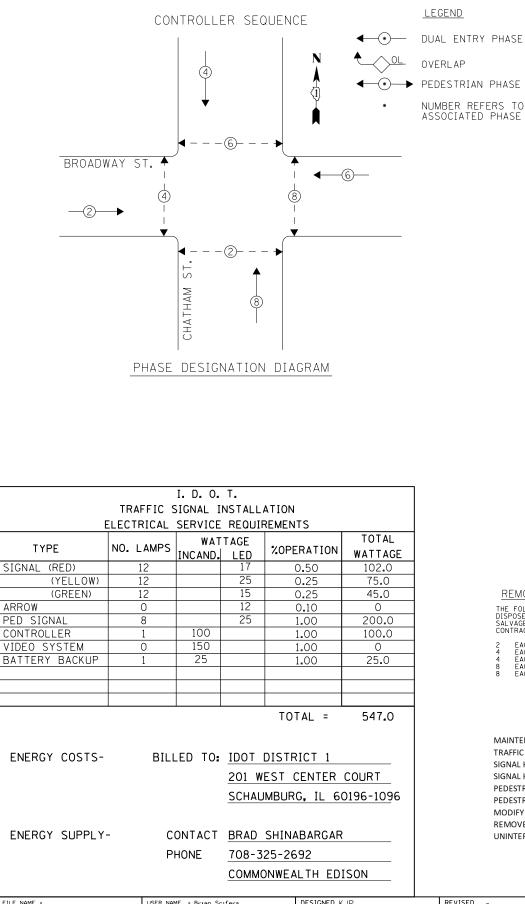


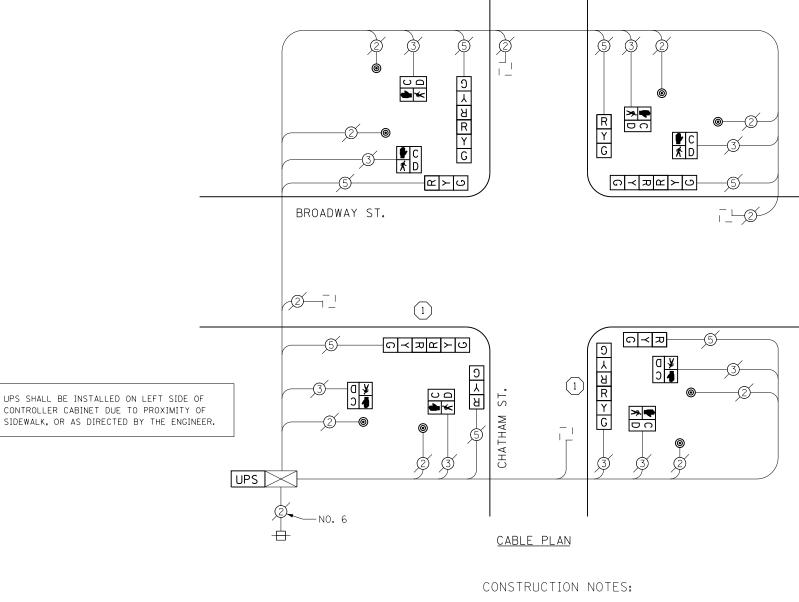
		I. D. O.	Τ.		
	TRAFFIC S	SIGNAL I	NSTALL	ATION	
	ELECTRICAL	SERVICE	REQUI	REMENTS	
TYPE	NO. LAMPS	WAT	TAGE LED	20PERATION	TOTAL WATTAGE
SIGNAL (RED)	10		17	0.50	85.0
(YELLOW)	10		25	0.25	62.5
(GREEN)	10		15	0.25	37.5
ARROW	4		12	0.10	4.8
PED SIGNAL	0		25	1.00	0.0
CONTROLLER	1	100		1.00	100.0
VIDEO SYSTEM	0	150		1.00	0.0
BATTERY BACKUP	1	25		1.00	25.0
				TOTAL =	314.8
ENERGY COSTS-	BILI	_ED TO:		DISTRICT 1 EST CENTER	COURT
			SCHAL	MBURG, IL 60	<u>0196-109</u> 6
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	!
	Р	HONE	<u>708-</u> 3	25-2692	
			СОММ	DNWEALTH ED	ISON
FILE NAME =	USER NA	ME = Brian So	cifers	DESIGNED	- кр
D160X24-sht-ts_TS20445.doc				DRAWN	- DIW

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1

FILE NAME =	USER NAME = Brian Scifers	DESIGNED - KP	REVISED -		SCHEDULE OF Q	UANTITIES	CARLE	DIAN 8.
D160X24-sht-ts_TS20445.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS	SCHEDOLE OF U			
	PLOT SCALE = 40.0000 '/ in.	CHECKED – BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		127	TH ST.	AT WIRE
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS







REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT 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 EA	CH SIGNAL	CE, 3-SECTION
8 EA	CH PEDEST	ACE, 3-SECTION L HEAD, 1-FACE BUITTON

SCHEDULE OF QUANTITIES
ITEM

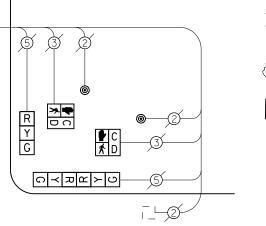
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

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3)	THE CONTRA
	POSTS THAT
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NOTES

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FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDULE O	F OUANTITIF	S CABI	F PLAN	R PHASE	DESIGNATION DIAGRAM	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
D160X24-sht-ts_TS4545.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS							2013-052TS	СООК	87 20
	PLOT SCALE = 40.0000 '/ in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		BROADWAY ST AT CHATHAM ST			51		CONTRAC	T NO. 60X24	
Default	PLOT DATE = 10/8/2013	DATE –	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED.	AID PROJECT	



THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

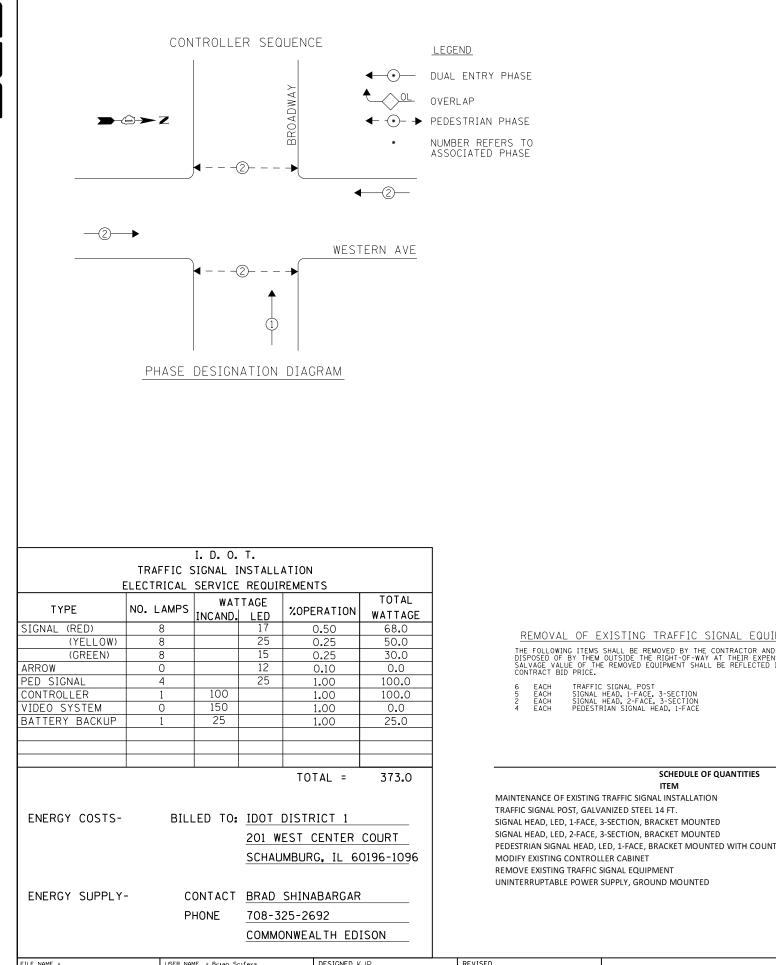
ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC ST OF THE SIZE SPECIFIED

> REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE IN THE SAME LOCATION, THE CONTRACTOR SHALL VERIFY PATTERN, SPACING, AND CONDITION OF THE EXISTING SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS SABLE, REPLACE AS DIRECTED BY THE ENGINEER.

ACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM ARE INDICATED FOR REPLACEMENT TO THE NEW POSTS ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE EMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

TS #4545

BLUE ISLAND



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				BROADWAY		
				 <u>Cable</u>	e pla	 <u>\N</u>
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ITDOWN TIMER	UNIT EACH EACH EACH EACH EACH EACH EACH	QUANTITIY 1 6 5 2 4 1 1 1 1		1) 2) 3)	FOUN SIGN PRIO REPL THAT BOLT ARE THE POST AS S	COSTS RELATE NDATION SHALL IAL POST OF TH IAL POST OF TH IAL POST OF TH IAL POST OF THE IAL PATTERN, IS ARE SUITABL NOT USABLE, F CONTRACTOR S IS THAT ARE IN SHOWN ON THE
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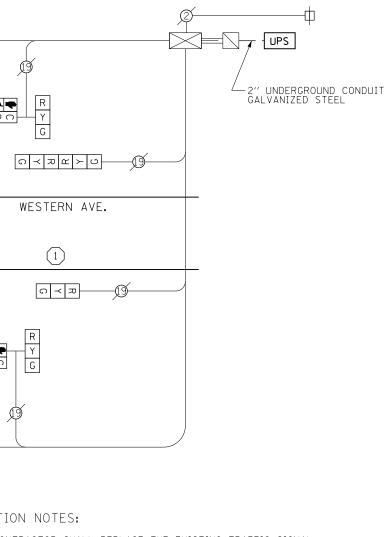
Ī	FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED		SCHEDULE O		S CARLE	PLAN & PHA	SE DESIGNATION DIAGRAM	F.A.	SECTION	COUNTY	TOTAL	SHEET
	D160X24-sht-ts_TS4580.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS							2013-052TS	СООК	87	21
		PLOT SCALE = 40.0000 ' / in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		BROADWAY ST & WESTERN AVE.					CONTRAC	T NO. 6	0X24	
	Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. 4	AID PROJECT		

TRAFFIC SIGNAL POST SIGNAL HEAD, 1-FACE, 3-SECTION SIGNAL HEAD, 2-FACE, 3-SECTION PEDESTRIAN SIGNAL HEAD, 1-FACE

SCHEDULE OF QUANTITIES

ITEM

UPS SHALL BE INSTALLED ON A SEPARATE FOUNDATION DUE TO PEDESTAL MOUNTED CONTROLLER CABINET, OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED"



ACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND PROPOSED POST TO THE EXISTING FOUNDATION.

ED TO ATTACHING THE POSTS TO THE EXISTING BE INCLUDED IN THE UNIT COST OF TRAFFIC HE SIZE SPECIFIED

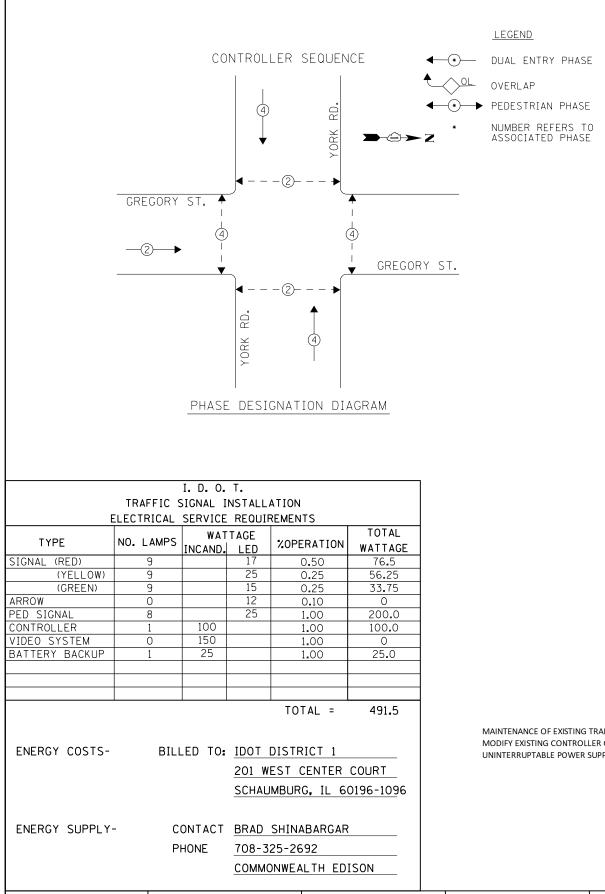
NG ANY TRAFFIC SIGNAL POST SPECIFIED TO BE SAME LOCATION THE CONTRACTOR SHALL VERIFY N, SPACING, AND CONDITION OF THE EXISTING BLE FOR RE-USE WITH A NEW POST. IF THE BOLTS REPLACE AS DIRECTED BY THE ENGINEER.

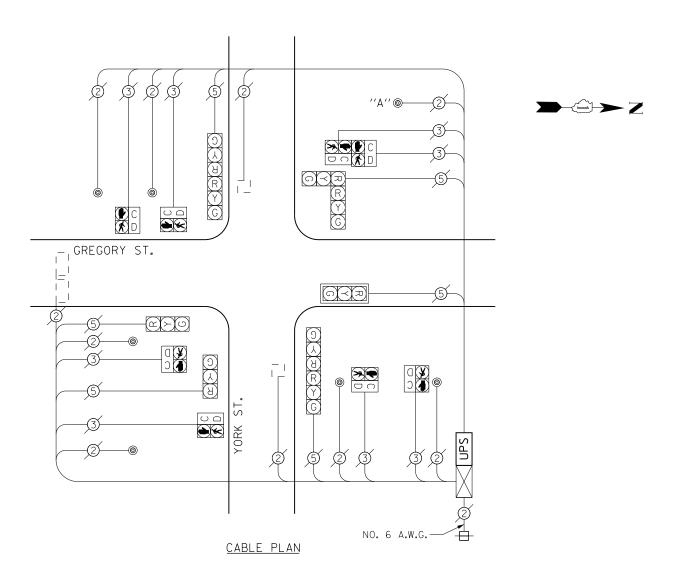
SHALL RELOCATE EXISTING SIGN PANELS FROM INDICATED FOR REPLACEMENT TO THE NEW POSTS PLANS OR AS DIRECTED BY THE ENGINEER. THE RELOCATION AND ANY NEW MOUNTING HARDWARE MPLETE THIS WORK SHALL BE INCLUDED IN THE AFFIC SIGNAL POST OF THE SIZE SPECIFIED.

TS #4580

BLUE ISLAND







PUSHBUTTON	NOTE

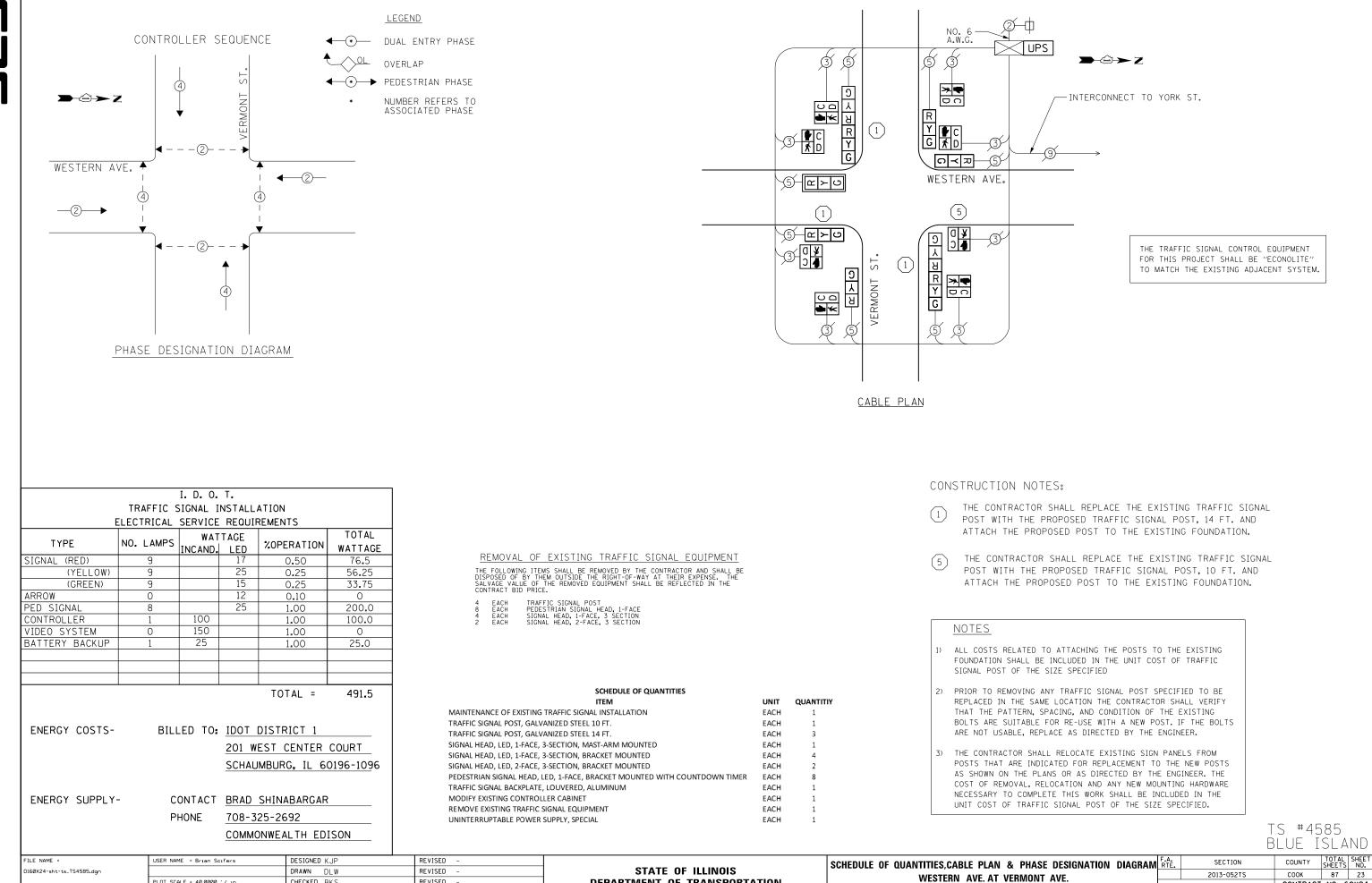
SCHEDULI	E OF QUANTITIES		
ITEM		UNIT	QUANTITIY
ENANCE OF EXISTING TRAFFIC SIGNAL INSTALL	ATION	EACH	1
Y EXISTING CONTROLLER CABINET		EACH	1
ERRUPTABLE POWER SUPPLY, SPECIAL		EACH	1

FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDULE OF	OUANTITIE	S CARLE	PLAN & PHASE	DESIGNATION DIAGRAM	F.A.	SECTION	COUNTY	TOTAL	SHEET
D160X24-sht-ts_TS4560.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS			•				2013-052TS	СООК	87	22
	PLOT SCALE = 40.0000 ' / in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	GREGORY ST. AT YORK RD.				2010 002.0	CONTRAC	T NO.	60X24		
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

### <u>ES:</u>

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

## TS #4560 Blue Island

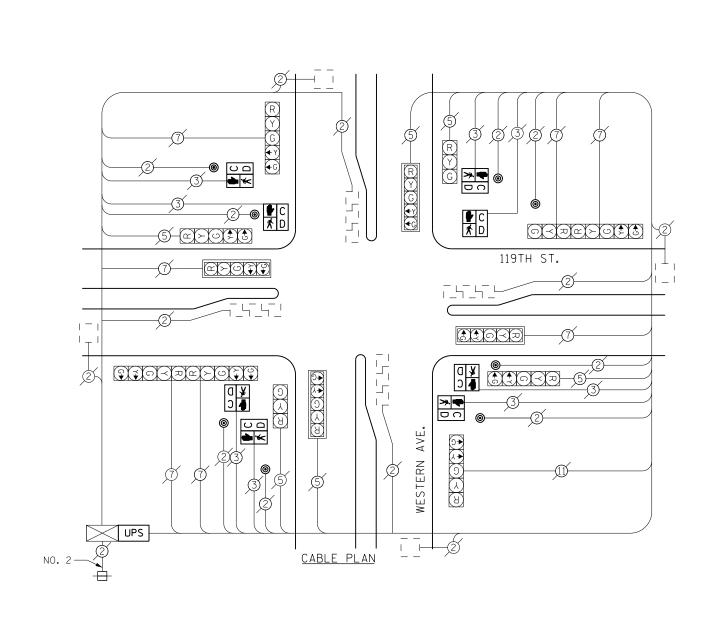


	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDUL
ts_TS4585.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS	SONEDOL
	PLOT SCALE = 40.0000 '/ in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	
	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:

Default

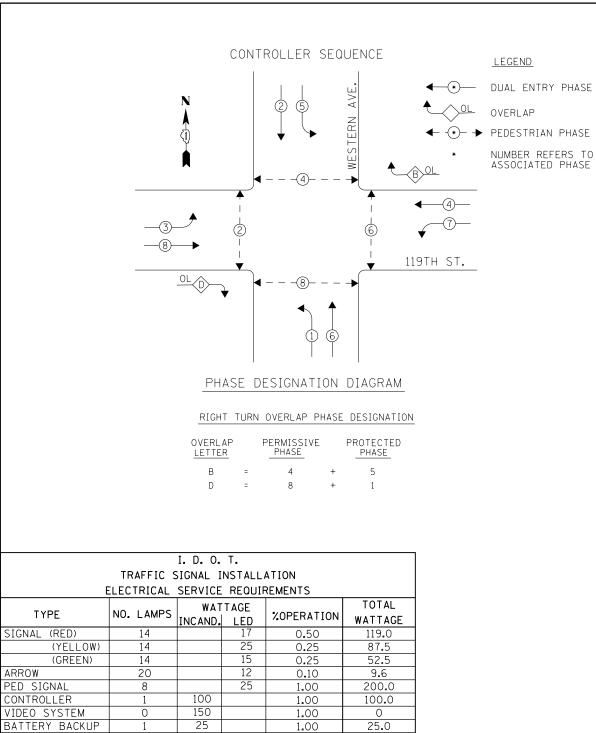
SHEET

ES,CABLE	PLAN &	PHASE	DESIGNATION	DIAGRAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VE. AT VE	RMONT	ΔVF			2013-052TS	СООК	87	23
	VL. AI VL		AVL.				CONTRACT	NO. 6	0X24
OF	SHEETS	STA.	TO STA.			ILLINOIS FED. AI	D PROJECT		



SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

	PHONE <u>708-32</u> <u>COMMON</u>	5-2692 IWEALTH EDISON				T E	TS #5870 Blue Island
FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED		SCHEDULE OF QUANTITIES, CABLE PLAN & PHASE DESIGNATION DIAGRAM	F.A. SECTION	COUNTY TOTAL SHEET
D160X24-sht-ts_TS5870.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS		2013-052TS	COOK 87 24
	PLOT SCALE = 40.0000 '/ in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	119TH ST. & WESTERN AVE.		CONTRACT NO. 60X24
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED	AID PROJECT



TOTAL =

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

BILLED TO: IDOT DISTRICT 1

CONTACT BRAD SHINABARGAR

608.0

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TYPE

ENERGY COSTS-

ENERGY SUPPLY-

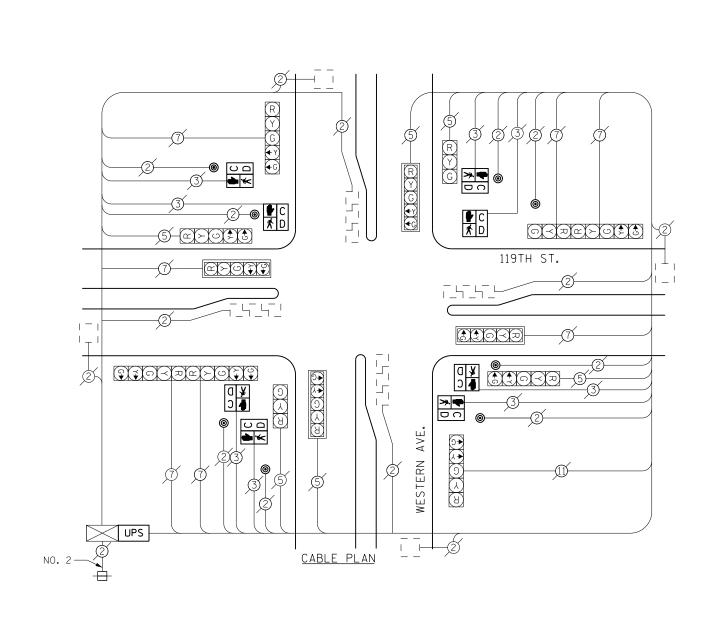
ARROW

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT 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.

8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE 8 EACH PEDESTRIAN PUSH BUTTON

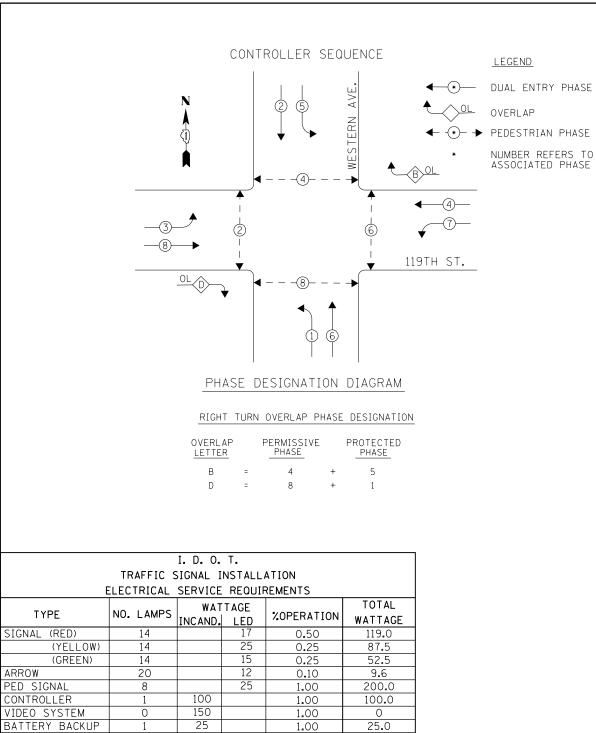
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SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

	PHONE <u>708-32</u> <u>COMMON</u>	5-2692 IWEALTH EDISON				T E	TS #5870 Blue Island
FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED		SCHEDULE OF QUANTITIES, CABLE PLAN & PHASE DESIGNATION DIAGRAM	F.A. SECTION	COUNTY TOTAL SHEET
D160X24-sht-ts_TS5870.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS		2013-052TS	COOK 87 24
	PLOT SCALE = 40.0000 '/ in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	119TH ST. & WESTERN AVE.		CONTRACT NO. 60X24
Default	DATE - 10/8/2013 DATE -				SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED	AID PROJECT



TOTAL =

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

BILLED TO: IDOT DISTRICT 1

CONTACT BRAD SHINABARGAR

608.0

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TYPE

ENERGY COSTS-

ENERGY SUPPLY-

ARROW

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT 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.

8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE 8 EACH PEDESTRIAN PUSH BUTTON

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### EXISTING CONTROLLER SEQUENCE

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PHASE					1	1							z								з								4		NUMBER OF	
INTERVAL	1	2	3A	3B	30	30	44	48	5	6	7A	7B	70	70	88	88	9	10	11.4	118	nc	11D	12A	12B	.13	14	15A	158	164	168	160	16(
CHANGE TO	6	6		2 0	RЗ			1	6	10		1 0	R 4	-	3	5	6	6		1 OR	4			ż	6	6		1		2	OR 3	
119 TH STREET EB & SB MARSHFIELD AVE. NEAR RIGHT AND MID MAST ARM SIGNAL	R	R	R	R	B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	۲	R	R	R
119 TH STREET EB & SB MARSHFIELD AVE. FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	Y	R	R	R
119 TH STREET EB © NB ASHLAND AVE. MID MAST ARM SIGNAL	6	G	G	G	Y	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R
119 TH STREET EB & NB ASHLAND AVE. FAR LEFT AND END MAST ARM SIGNALS	<u>_</u> ,	6	-C o	G	Y	R	<u> </u>	G	R	R	R	R	R	R	R	R	R	R	R	B	R	R	R	R	C_	C_	G_	6	¢.	6	Y	R
119 TH STREET WE & NB ASHLAND AVE. NEAR RIGHT AND MID MAST ARM SIGNALS	8	R	R	R	R	R	R	R	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	0 R	R	R	R	R	R	R
119 TH STREET WE & NO ASHLAND AVE. FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
119 TH STREET WE & SE MARSHELLD AVE. MID MAST ARM SIGNAL	8	R	R	R	R	R	R	R	G	G	G	G	Y	R	G	G	G	G	G	G	Y	R	G	c	R	R	R	R	R	R	R	R
119 TH STREET WB & SB MARSHFIELD AVE. FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	6	G	<u> </u>	G	Y	R	<u>_</u> c	<u> </u>	<u> </u>	<u> </u>	÷c c	<u> </u>	¥	R	- G G	<u>_</u> 6	R	R	R	R	R	R	R	R
SB MARSHFIELD AVE. NEAR RIGHT AND RIGHT MAST ARM SIGNALS	G	G	Y	R	в	R	¥	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R G-+	G <sup>R</sup> →	G <sup>R</sup> →		Y <sup>R</sup> →	R	R	R
SB MARSHFIELD AVE. FAR LEFT AND MID & END MAST ARM SIGNALS	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	B	R	R	R	R	R	R	R	R	R	R	R	R	R
NB ASHLAND AVE, NEAR RIGHT AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R G→	G <sup>R</sup>	Y <sup>R</sup> →	R	R	R	G <sup>R</sup> →	R G	G	G	Y	8	R	Ř	Y	R	R	R	R	R	R	R	R	R
NB ASHLAND AVE, FAR LEFT AND MID & END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R
PED. SIGNALS X-ING 119TH ST ON WEST SIDE OF MARSHFIELD AVE.	P	FH	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н
PED. SIGNALS X-ING 119TH ST ON EAST SIDE OF ASHLAND AVE.	н	н	н	н	н	н	н	н	н	н	н	н	н	- H	н	н	Р	FH	н	н	н	н	н	н	н	н	н	н	н	н	н	H
PED. SIGNALS X-ING MARSHFIELD AVE. ON NORTH SIDE OF 119TH STREET	н	н	н	н	н	н	н	н	P	FH	н	н	н	н	н	н	Р	FH	н	н	н	н	н	- н	н	н	н	н	. н	н	н	н
PED, SIGNALS X-ING MARSHFIELD AVE. ON SOUTH SIDE OF 119TH STREET	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	H	P	FH	н	н	н	н	н	н
PED. SIGNALS X-ING ASHLAND AVE. ON NORTH SIDE OF 119TH STREET	н	н	н	н	н	н	н	н	Р	FH	н	н	н	н	н	н	н	H,	н	н	н	н	н	н	н	н	н	н	н	н	н	н
PED. SIGNALS X-ING ASHLAND AVE. ON SOUTH SIDE OF 119TH STREET	P	FH	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	Ĥ	н	H	Ĥ	н	н	н	P	FH	н	н	н	в	н	н

P = 1LLUMENATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

- H = ILLUMENTATED SOLID HAND = DOW I WALK
   TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
   FLASHING D'IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.
   "AND FLASHING D'ITMINGS TO BE SET ONLY ON PHASES WHERE "AND FLASHING D'ARE INDICATED IN THE SEQUENCE OF OPERATION.

- THIS "A" OR FLASHING "D" INTERVAL MAY FINISH TIMING IN THE BI-DIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "T" OR FLASHING "D" INTERVALS.

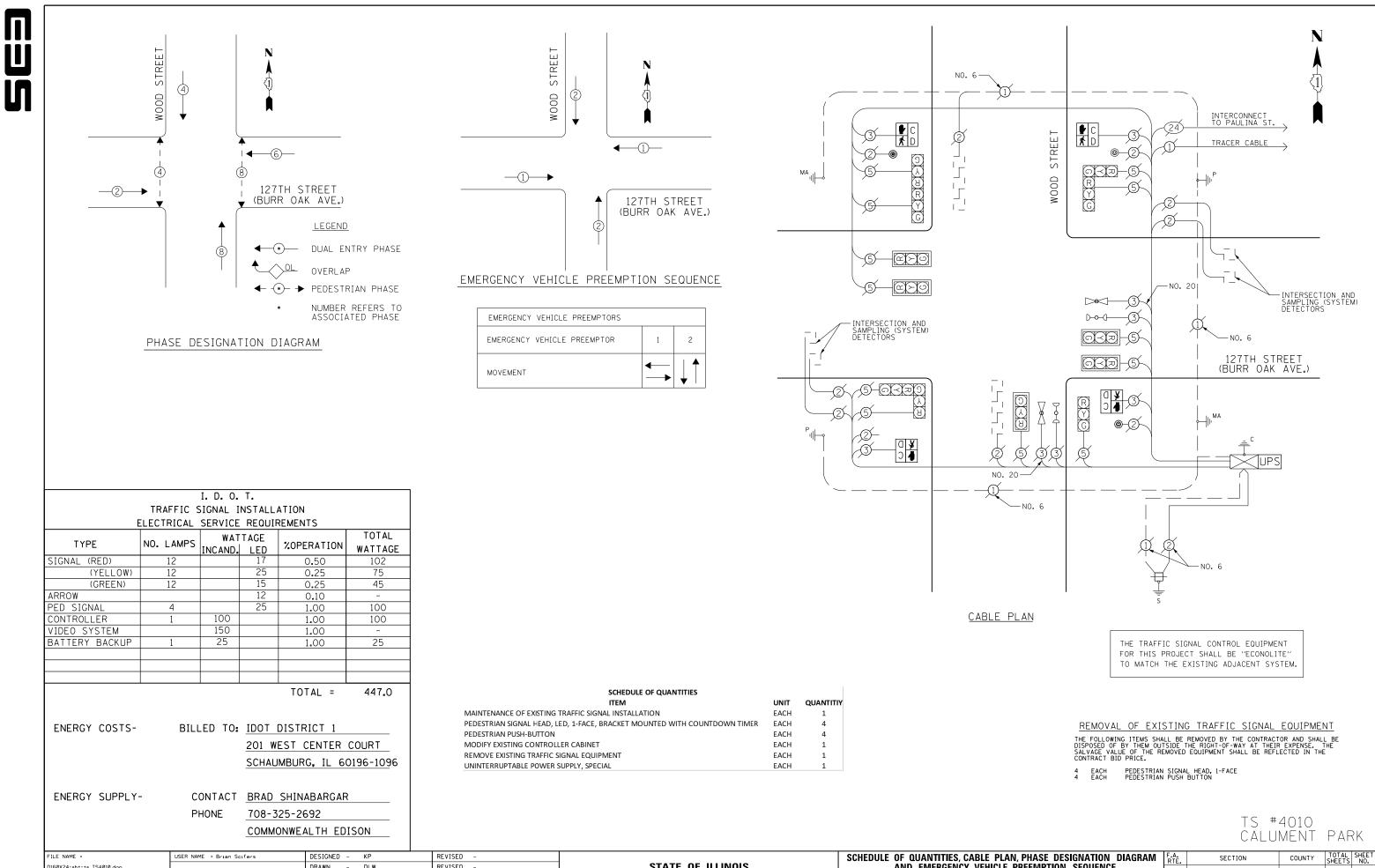
NOTE:

WHERE DOUBLE CLEARANCE INTERVALS ARE REQUIRED THE CLEARANCE REQUIRES 4 ADJUSTABLE TIME INTERVALS.

1	FILE NAME =	USER NAME = Brian Scifers	DESIGNED – KP	REVISED -				СНА	RT SEQUENCE		F.A. BIE	SECTION	COUNTY	TOTAL SHEET
1	D160X24-sht-ts_TS20CS.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS		119TH ST. AT MARSHFIELD AVE. /ASHLAND AVE.					2013-052TS	СООК	87 26
		PLOT SCALE = 40.0000 ' / in.	CHECKED – BKS	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRACT	NO. 60X24	
Ľ	Default	PLOT DATE = 10/8/2013	DATE –	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				ILLINOIS FED.	AID PROJECT			

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TS #20	
CALUMENT	Park



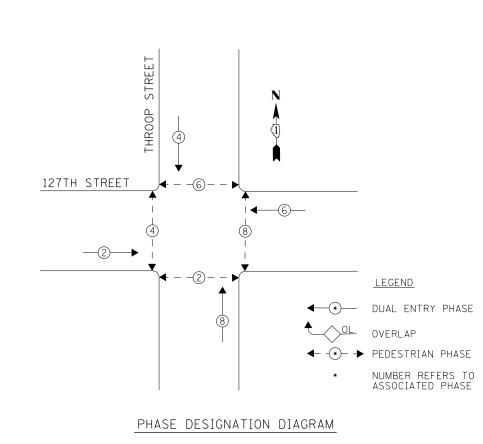
		I. D. O.			
	TRAFFIC S				
	ELECTRICAL				TOTAL
TYPE	NO. LAMPS	WAI INCAND.	TAGE LED	%OPERATION	WATTAGE
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW			12	0.10	-
PED SIGNAL	4		25	1.00	100
CONTROLLER	1	100		1.00	100
VIDEO SYSTEM		150		1.00	-
BATTERY BACKUP	1	25		1.00	25
				TOTAL =	447.0
ENERGY COSTS-	BILI	_ED TO:	201 W	EST CENTER	
			SCHAU	IMBURG, IL 6	<u>0196-109</u> 6
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	?
	Р	HONE	708-3	25-2692	
			COMM	ONWEALTH ED	ISON
FILE NAME =	USER NA	ME = Brian Sc	lfers	DESIGNED	- КР
DIGOV24-sht-to TS4010 dee				DRAWN	

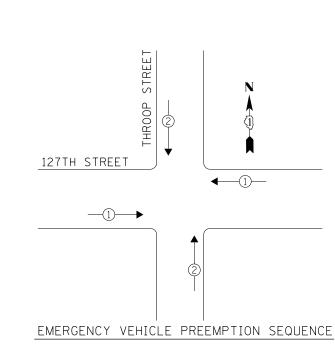
SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

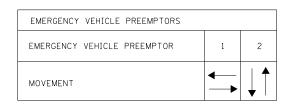
FILE NAME =	USER NAME = Brian Scifers	DESIGNED - KP	REVISED -			QUANTITIE		
D160X24-sht-ts_TS4010.dgn		DRAWN – DLW	REVISED -	STATE OF ILLINOIS	AND AND	) EMERGE		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		12	7TH ST	AND W
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS

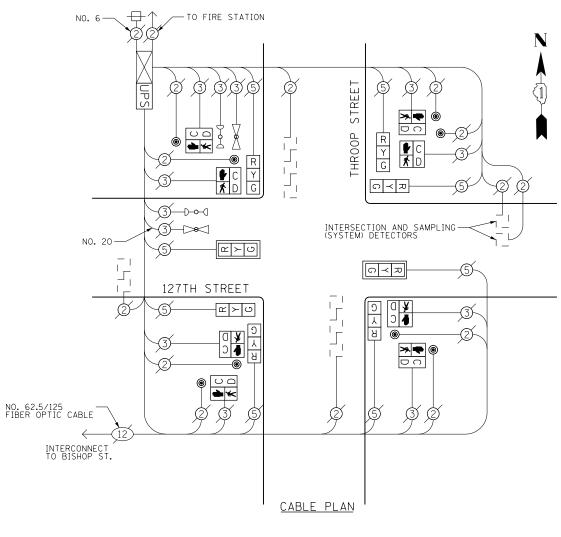
		RIE.	02011011		SHEFIZ	NO.
	EEMPTION SEQUENCE		2013-052TS	СООК	87	27
N	OOD ST	_		CONTRACT	NO. 6	0X24
S	STA. TO STA.		ILLINOIS FED. A	ID PROJECT		











	TRAFFIC S	I. D. O. SIGNAL I		ATION	
	ELECTRICAL				
TYPE	NO. LAMPS	WAT	TAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8		17	0.50	68
(YELLOW)	8		25	0.25	50
(GREEN)	8		15	0.25	30
ARROW			12	0.10	-
PED SIGNAL	8		25	1.00	200
CONTROLLER	1	100		1.00	100
VIDEO SYSTEM		150		1.00	-
BATTERY BACKUP	1	25		1.00	25
ENERGY COSTS-	BILI	_ED TO:	IDOT	TOTAL =	473.0
			201 W	EST CENTER	COURT
			SCHAL	JMBURG, IL 60	0196-1096
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	
	Р	HONE	708-3	325-2692	
			COMM	ONWEALTH ED	ISON
FILE NAME =	USER NAT	ME = Brian Sc	afers	DESIGNED	- KP
D160X24-sht-ts_TS4005.dgn				DRAWN	- DLW

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	6
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2

FILE NAME =	USER NAME = Brian Scifers	DESIGNED - KP	REVISED -						SIGNATION DIAGRAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
D160X24-sht-ts_TS4005.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS				HICLE PREEMPTION	SEQUENCE		2013-052TS	СООК	87 28
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION			12/IH S	T.AT THROOP ST.				CONTRAC	CT NO. 60X24
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. 4	AID PROJECT	

### RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

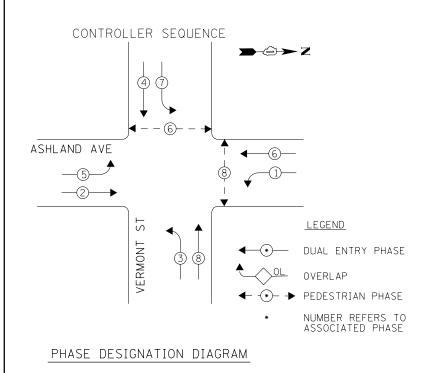
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

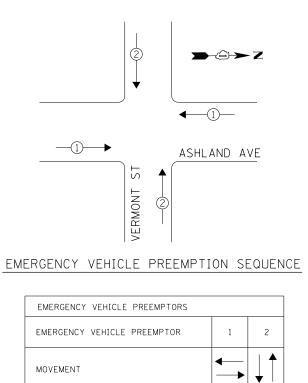
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

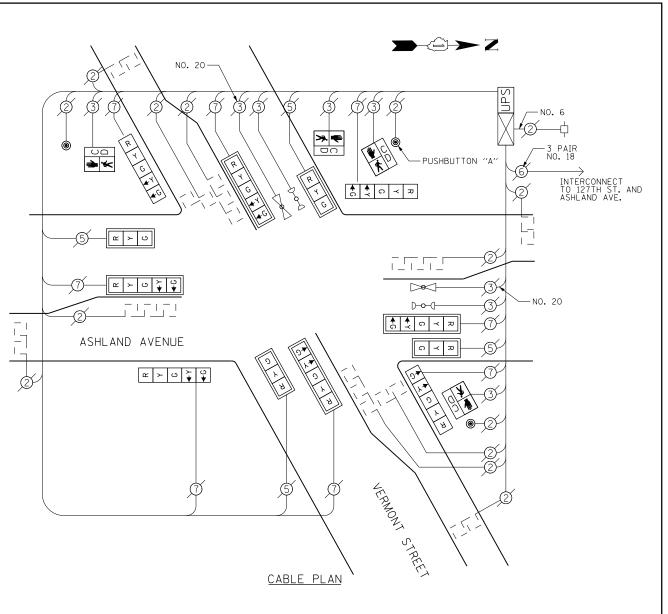
8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE 8 EACH PEDESTRIAN PUSH BUTTON

## TS #4005 Calument park









		I. D. O.			
	TRAFFIC S				
	ELECTRICAL	SERVICE	REQUI	REMENTS	
TYPE	NO. LAMPS	WAT	TAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	16		12	0.10	19.2
PED SIGNAL	4		25	1.00	100
CONTROLLER	1	100		1.00	100
VIDEO SYSTEM		150		1.00	-
BATTERY BACKUP	1	25		1.00	25
				TOTAL =	466.2
ENERGY COSTS-	BILI	ED TO:	IDOT	DISTRICT 1	
			201 W	EST CENTER	COURT
			SCHAL	IMBURG, IL 60	<u>0196-109</u> 6
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	
	Ρ	HONE	708-3	25-2692	
			СОММ	ONWEALTH ED	ISON
FILE NAME =	USER NO	4E = Brian Sc	afers	DESIGNED	- кр

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	3

FILE NAME =	USER NAME = Brian Scifers	DESIGNED – KP	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM						F.A.	SECTION	COUNTY	TOTAL SHEET
D160X24-sht-ts_TS4140.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS	AN					SEQUENCE		2013-052TS	соок	87 29
	PLOT SCALE = 40.0000 ' / in.	CHECKED – BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		ASHL	LAND A	VE AT V	ERMONT S	т			CONTRA	CT NO. 60X24
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED.	AID PROJECT	

NOTE: PUSHBUTTON "A" WILL PLACE A CALL IN PHASES 6 AND 8.

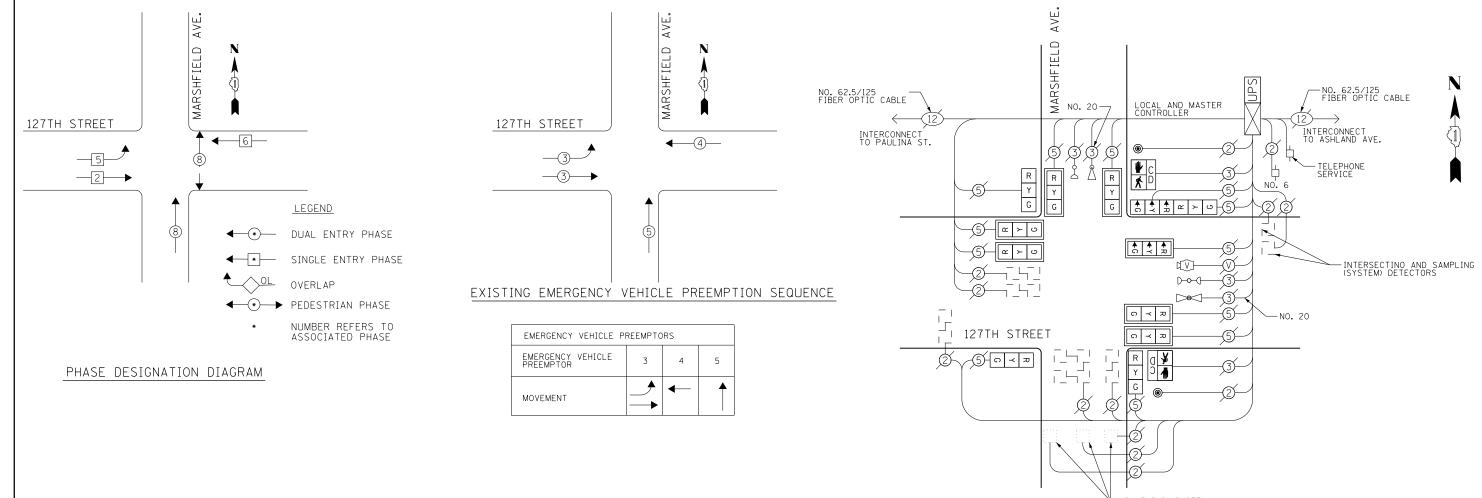
RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT 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 PEDESTRIAN SIGNAL HEAD, 1-FACE 3 EACH PEDESTRIAN PUSH BUTTON

### TS #4140 Calument park

EXISTING CONTROLLER SEQUENCE



<u>CABLE PLAN</u>

		I. D. O.	Τ.		
	TRAFFIC S				
	ELECTRICAL			REMENTS	
TYPE	NO. LAMPS	WAT INCAND.	TAGE LED	20PERATION	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	0		12	0.10	0
PED SIGNAL	2		25	1.00	50
CONTROLLER	1	100		1.00	100
VIDEO SYSTEM	1	150		1.00	150
BATTERY BACKUP	1	25		1.00	25
				TOTAL =	547.0
ENERGY COSTS-	BILI	ED TO:	IDOT	DISTRICT 1	
			201 W	EST CENTER	COURT
			SCHAL	JMBURG, IL 60	0196-1096
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	
ENERGY SUPPLY	•	ONTACT HONE		SHINABARGAR 325-2692	
ENERGY SUPPLY	•		708-3		
	P		 	325-2692	ISON

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	7
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1

FILE NAME =	USER NAME = Brian Scifers	DESIGNED – KP	REVISED -		SCHEDUL				SIGNATION DIAGRAM	F.A. RTE.	SECTION	COUNTY	TOTAL	
D160X24-sht-ts_TS25.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS				EHICLE PREEMPTIO			2013-052TS	СООК	87	30
	PLOT SCALE = 40.0000 '/ in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		I 57 AT 1	127TH S1	Γ. EAST RAMP ∕MAI	RSHFIELD			CONTRAC	T NO.	60X24
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

-SAMPLING (SYSTEM) DETECTORS

## RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

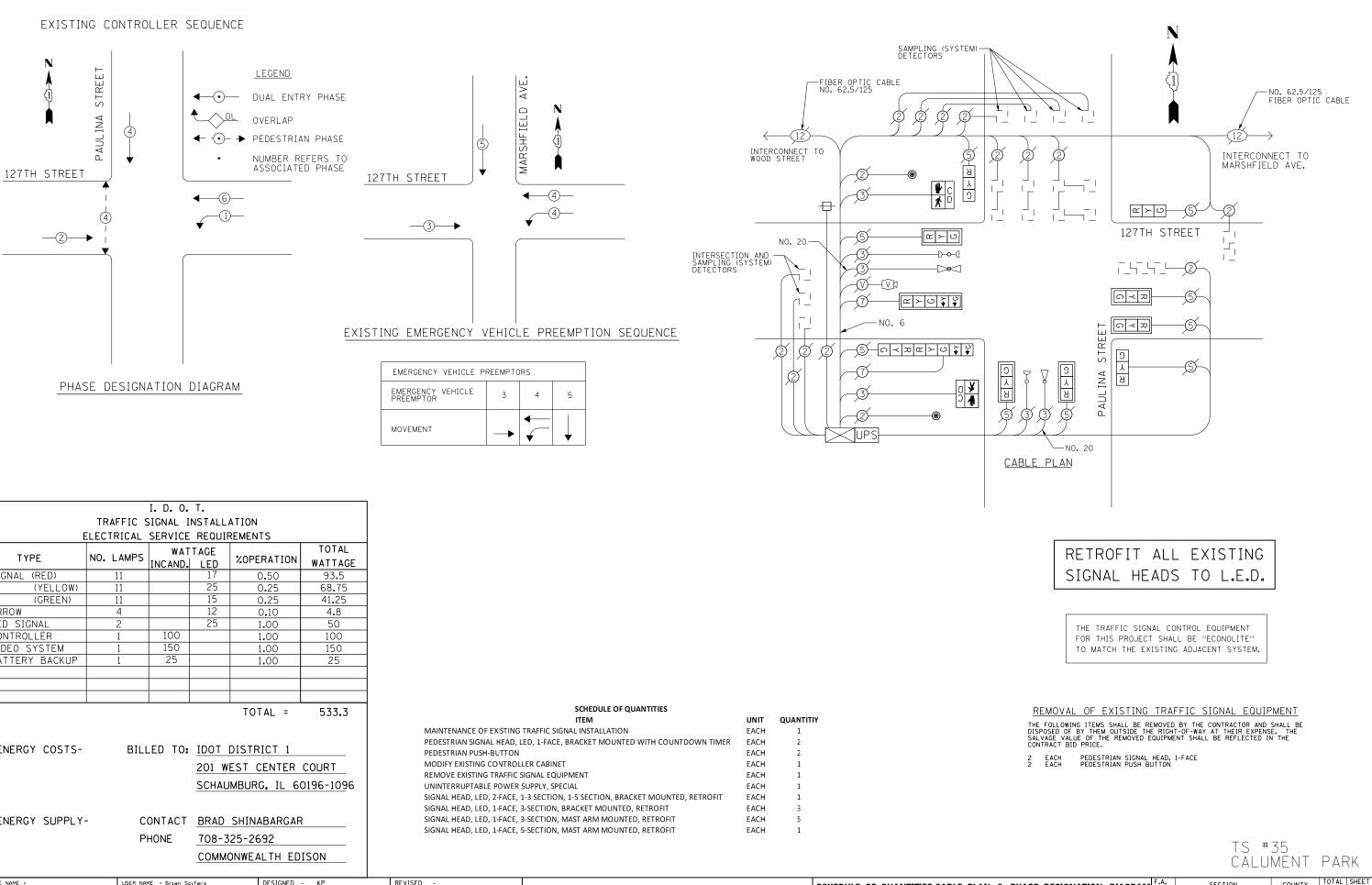
### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE 2 EACH PEDESTRIAN PUSH BUTTON

### TS #25 Calument park

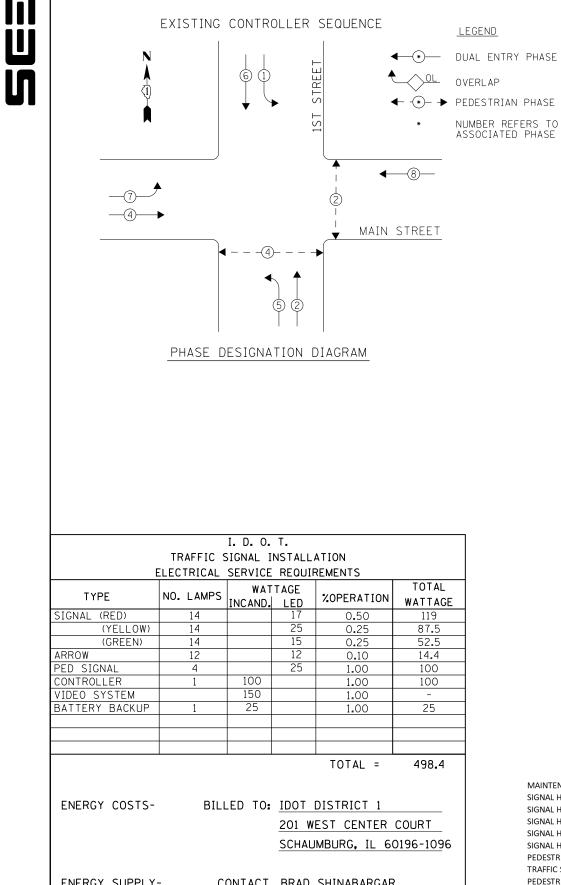




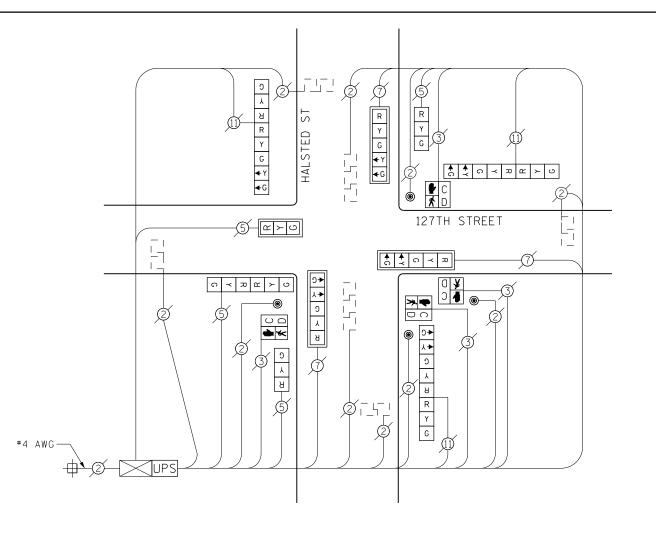
		I. D. O.	т.						
	TRAFFIC S	SIGNAL I	NSTALL	ATION					
E	LECTRICAL	SERVICE	REQUI	REMENTS					
TVDE		WAT	TAGE		TOTAL				
TYPE	NO. LAMPS	INCAND.	LED	%OPERATION	WATTAGE				
SIGNAL (RED)	11		17	0.50	93.5				
(YELLOW)	11		25	0.25	68.75				
(GREEN)	11		15	0.25	41.25				
ARROW	4		12	0.10	4.8				
PED SIGNAL	2		25	1.00	50				
CONTROLLER	1	100		1.00	100				
VIDEO SYSTEM	1	150		1.00	150				
BATTERY BACKUP	1	25		1.00	25				
				TOTAL =	533.3				
ENERGY COSTS- BILLED TO: <u>IDOT DISTRICT 1</u> <u>201 WEST CENTER COURT</u> SCHAUMBURG, IL 60196-1096									
ENERGY SUPPLY-	- Ci Pi	708-3	SHINABARGAR 25-2692 DNWEALTH ED						
FILE NAME =		1E = Brian Sc		DESIGNED -	- KP				

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	1

FILE NAME =	USER NAME = Brian Scifers	DESIGNED - KP	REVISED -		SCHEDULE OF	OUANTITIE	S CABLE	PLAN 8	PHASE DE	SIGNATION DIAGRAM	F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
D160X24-sht-ts_TS35.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS			•					2013-052TS	соок	87	31
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	127TH ST. & PAULINA ST.								CONTRAC	T NO. 6	0X24
Default	PLOT DATE = 10/8/2013	DATE –	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. 4	AID PROJECT		



IJ



<u>Cable plan</u>

	тои		I. D. O.	-		
			SIGNAL I SERVICE		REMENTS	
TYPE		LAMPS		TAGE	20PERATION	TOTAL WATTAGE
SIGNAL (RED)		14		17	0.50	119
(YELL	OW)	14		25	0.25	87.5
(GREE	N)	14		15	0.25	52.5
ARROW		12		12	0.10	14.4
PED SIGNAL		4		25	1.00	100
CONTROLLER		1	100		1.00	100
VIDEO SYSTEM			150		1.00	-
BATTERY BACK	KUP	1	25		1.00	25
					TOTAL =	498.4
ENERGY COS	TS-	BILL	ED TO:	201 W	DISTRICT 1 EST CENTER MBURG, IL 6	
ENERGY SUP	PLY-	•	ONTACT HONE	BRAD SHINABARGAR 708-325-2692		
					DNWEALTH ED	DISON
FILE NAME =		USER NAM	1E = Brian So	oifers	DESIGNED	- КР
D160X24-sht-ts_TS1790.de	gn -				DRAWN	- DLW

ITEM	UNIT	QUANTITI
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

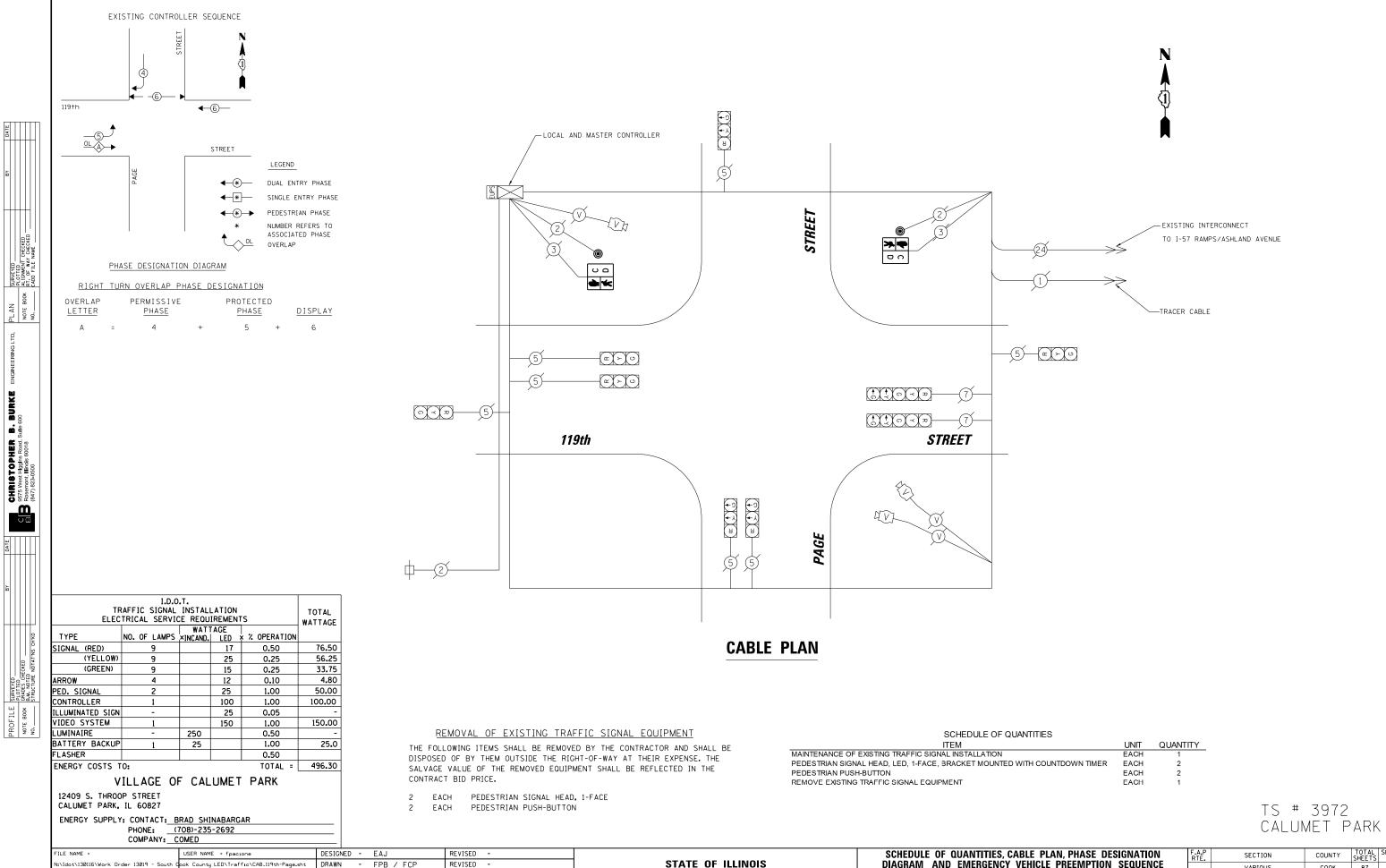
FILE NAME =	USER NAME = Brian Scifers	DESIGNED – KP	REVISED -		SCHEDULE		ES CARLE	Ε ΡΙΔΝ &	PHASE D	ESIGNATION DIAGRAM	F.A.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
D160X24-sht-ts_TS1790.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS	IL 1 /HALSTED ST. AT 127TH ST.			2013-052TS	СООК	87 32				
	PLOT SCALE = 40.0000 '/ in.	CHECKED – BKS	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRAC	T NO. 60X24				
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

3	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
3	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
3	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, 5-SECTION
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
4	EACH	PEDESTRIAN PUSH BUTTON

## TS #1790 Calument park



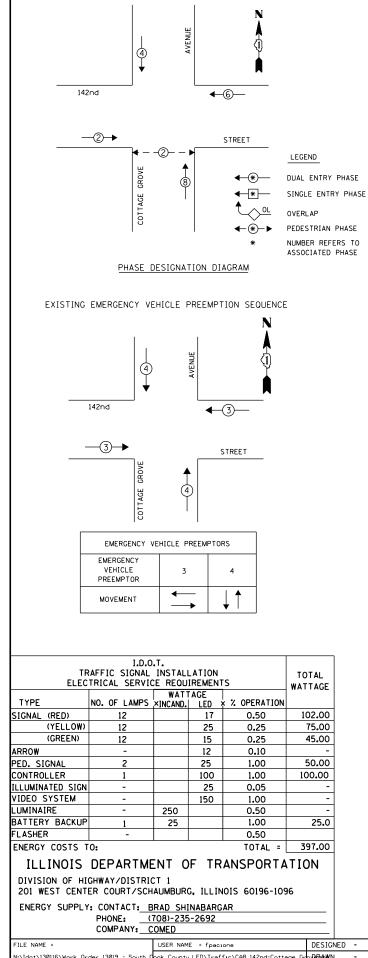
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FILE NAME =	USER NAME = fpacione	DESIGNED -	EAJ	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.P RTF.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Idot\130116\Work Order 13019 - South C	ook County LED\Traffic\CAB_119th-Page.sht	DRAWN -	FPB / FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		VARIOUS	COOK 87 33
	PLOT SCALE = 40'	CHECKED -	GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	119th AT PAGE STREET	_		CONTRACT NO. 60X24
	PLOT DATE = 10/7/2013	DATE -	SEPT. , 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DI	IST. NO. ILLINOIS FE	D. AID PROJECT

I IEO		
	UNIT	QUANTITY
	EACH	1
COUNTDOWN TIMER	EACH	2
	EACH	2
	EACH	1



SURVEYED PLOTTED ALIGNMENT CHECKED RT. OF WAY CHECKED CADD FILE NAME

BOOK

PLAN NOTE BC

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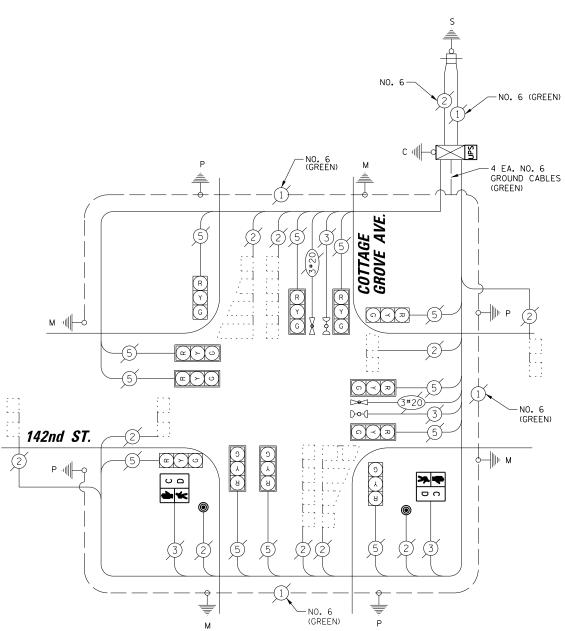
**n** <del>g</del>

CHRISTOPHER 9575 West Higgins Road, Si 8575 West Higgins Road, Si 847) 873-04500

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PROF Note

EXISTING CONTROLLER SEQUENCE



### **CABLE PLAN**

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

EACH PEDESTRIAN SIGNAL HEAD, 1-FACE 2 EACH PEDESTRIAN PUSH-BUTTON 2

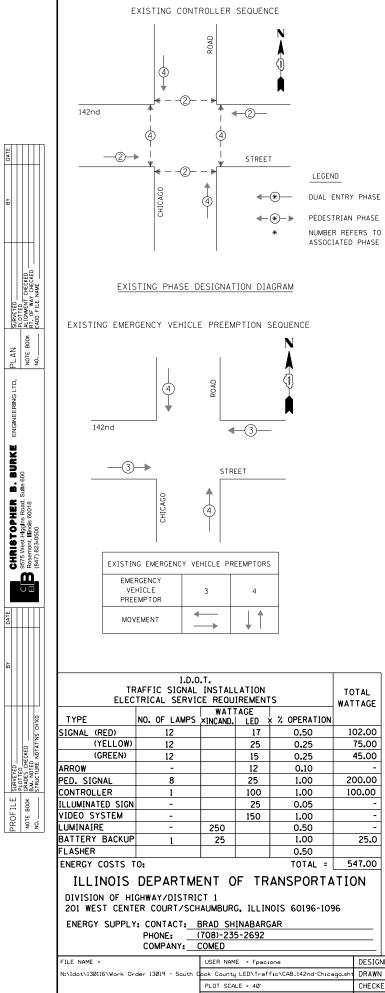
MAINTENANCE OF EXISTING TRAFFIC SIGNAL PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BR PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPME UNINTERRUPTABLE POWER SUPPLY, SPECIA

	PHONE: COMPANY:	708)-235-2692 OMED	_					DOLTON
FI	LE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -		SCHEDULE OF QUANTITIES, CADLE FLAN, FHASE DESIGNATION	F.A.P SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:	\ldot\l30116\Work Order 13019 - South C	ook County LED\Traffic\CAB_142nd-Cottage Gro	angaawan - FPB ∕ FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	VARIOUS	СООК 87 34
		PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	142nd STREET AT COTTAGE GROVE AVENUE		CONTRACT NO. 60X24
		PLOT DATE = 10/7/2013	DATE - SEPT. , 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FE	D. AID PROJECT

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
L INSTALLATION	EACH	1
RACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
	EACH	2
	EACH	1
1ENT	EACH	1
IAL	EACH	1

TS # 12105

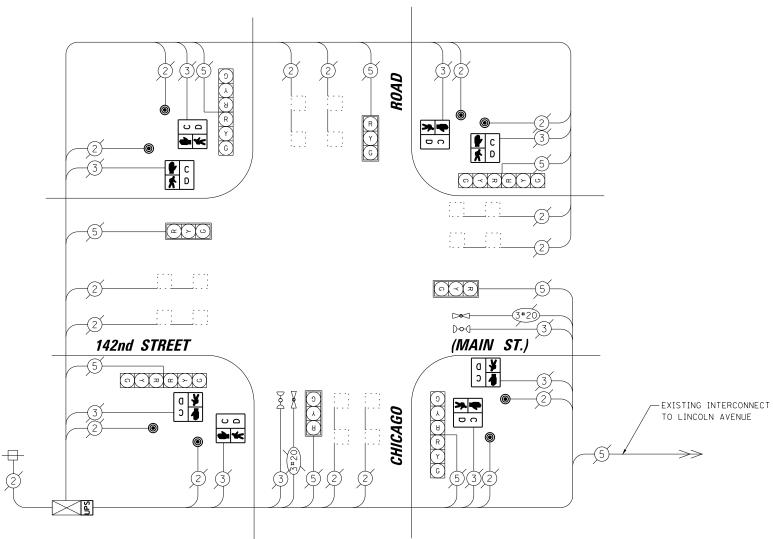




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### **CABLE PLAN**

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

PEDESTRIAN SIGNAL HEAD, 1-FACE 8 EACH PEDESTRIAN PUSH-BUTTON EACH 8

MAINTENANCE OF EXISTING TRAFFIC

PEDESTRIAN SIGNAL HEAD, LED, 1-F PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CAB REMOVE EXISTING TRAFFIC SIGNAL UNINTERRUPTABLE POWER SUPPLY

ENERGY SUPPLY: CONTACT:	(708)-235-2692						TS # 4050 Dolton
FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.P SECTION	COUNTY TOTAL SHEET
N:\Idot\130116\Work Order 13019 - South	Cook County LED\Traffic\CAB_142nd-Chicago.sh	DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	VARIOUS	СООК 87 35
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	142nd STREET (MAIN ST.) AT CHICAGO ROAD		CONTRACT NO. 60X24
	PLOT DATE = 10/7/2013	DATE - SEPT. , 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FE	ED. AID PROJECT



SCHEDULE OF QUANTITIES			
ITEM	UNIT	QUANTITY	
AFFIC SIGNAL INSTALLATION	EACH	1	
D, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	
	EACH	8	
R CABINET	EACH	1	
GNAL EQUIPMENT	EACH	1	
JPPLY, SPECIAL	EACH	1	

	SIMPERED BY DATE PLONETED BY DATE R1.DMMENT CRECED BY R1.0 M NO CRECED CADD FILE NAME	-2-	LEGEND	IASE		$\overrightarrow{3} \overrightarrow{2} \overrightarrow{5}$
Line Martine       Lectrical SERVICE RECURRENTS       WATTAGE         WATTAGE       WATTAGE         TYPE       No. 0F LAMPS KIRCHO, LED × 2. OPERATION         Scheduler       Scheduler         USBORD       14       15       0.25       97.50         CORTEOLLER       1       100       10.00       100.00       100.00       100.00         CONTROLLER       1       100       1.00       100.00<	DATE CHRI&TOPHER B. BURKE ENGINEERING LTD. PLAN CB Reservot Higgins Road. Sulte 600 B Reservot 90018 (847) 923-0500	Id2nd     Id2nd       Id2nd    <	Щню()			
	PROFILE NOTE BOOK	TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS         TOT WATTAGE           TYPE         NO. OF LAMPS XINCAND.         LED × % OPERATION           SIGNAL (RED)         14         17         0.50         111           (YELLOW)         14         25         0.25         88           (GREEN)         14         15         0.25         5           ARROW         4         12         0.10         150           CONTROLLER         1         100         1.00         100           CONTROLLER         1         100         1.00         100           LUMINATED SIGN         25         0.050         111           LUMINATED SIGN         25         0.50         100           LUMINATED         25         1.00         100           LUMINATED         25         1.00         100           LUMINATE         25         1.00         100           LUMINATE         25         1.00         100           LUMINATE         25         1.00         100           LUMINATE         53         1.00         100           ENERGY COSTS TO:         TOTAL = 53         1.00           DIVISION OF HIGHWAY/DISTRICT 1 <th>TAGE 9.00 17.50 22.50 4.80 0.00 - - 25.0 18.80 N besigned - EAJ DRAWN - FPB / FCP</th> <th>REVISED -</th> <th>STATE OF ILLINOIS</th> <th>MAINTENANCE OF EXISTING TRAFFIC SIC PEDESTRIAN SIGNAL HEAD, LED, 1-FACI PEDESTRIAN SIGNAL HEAD, LED, 2-FACI PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINE REMOVE EXISTING TRAFFIC SIGNAL EQU UNINTERRUPTABLE POWER SUPPLY, SI SCHEDULE OF QUANTITIES, CABLE P DIAGRAM AND EMERGENCY VEHICL</th>	TAGE 9.00 17.50 22.50 4.80 0.00 - - 25.0 18.80 N besigned - EAJ DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS	MAINTENANCE OF EXISTING TRAFFIC SIC PEDESTRIAN SIGNAL HEAD, LED, 1-FACI PEDESTRIAN SIGNAL HEAD, LED, 2-FACI PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINE REMOVE EXISTING TRAFFIC SIGNAL EQU UNINTERRUPTABLE POWER SUPPLY, SI SCHEDULE OF QUANTITIES, CABLE P DIAGRAM AND EMERGENCY VEHICL
					DEPARTMENT OF TRANSPORTATION	

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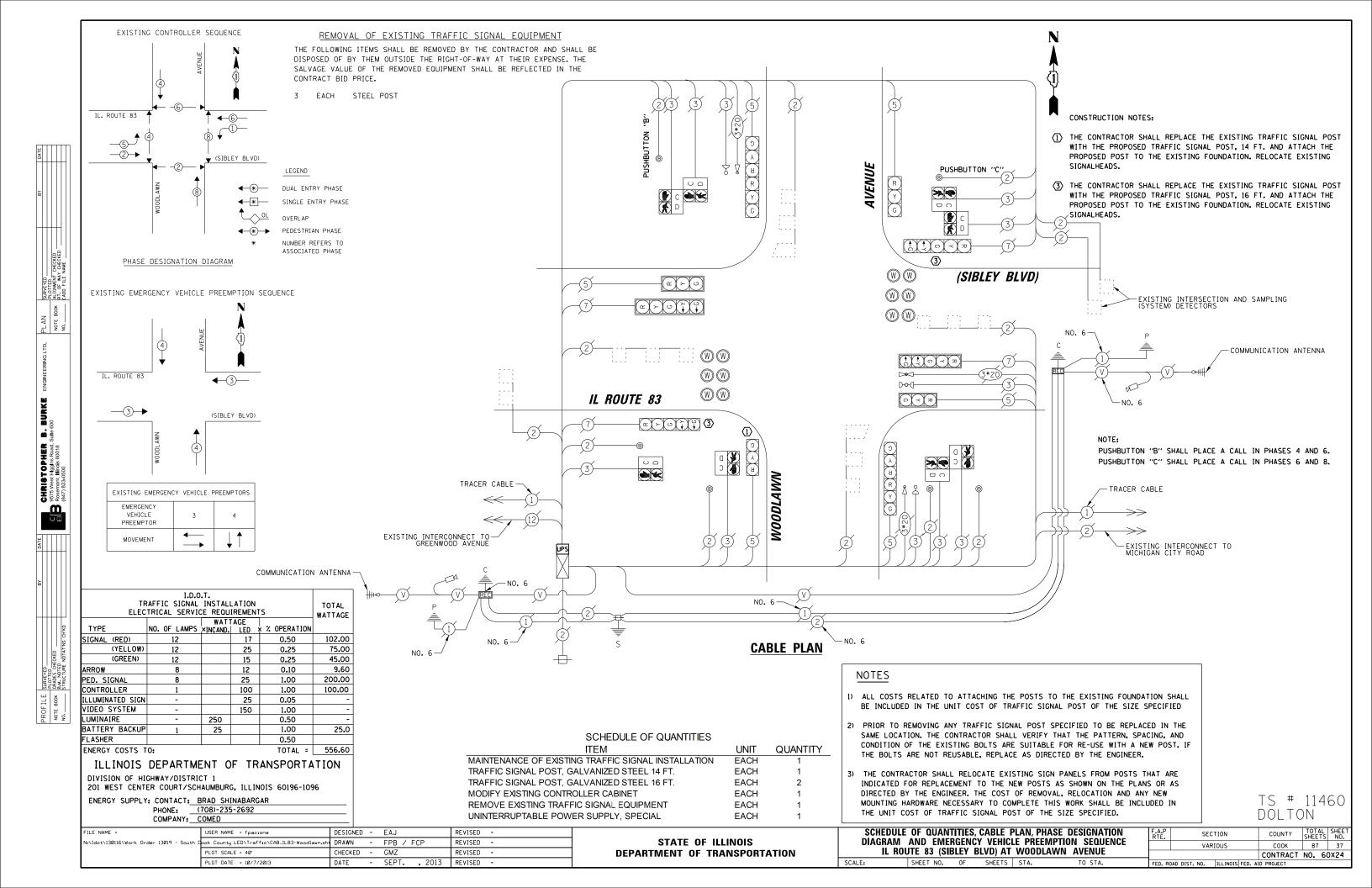
### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

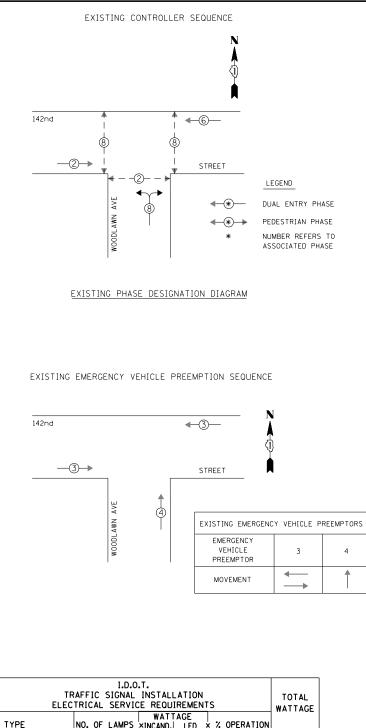
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	PEDESTRIAN	SIGNAL	HEAD,	2-FACE
4	EACH	PEDESTRIAN	SIGNAL	HEAD,	1-FACE
2	EACH	PEDESTRIAN	PUSH-B	UTTON	

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
RAFFIC SIGNAL INSTALLATION	EACH	1
ED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
ED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
	EACH	2
R CABINET	EACH	1
GNAL EQUIPMENT	EACH	1
UPPLY, SPECIAL	EACH	1

	TS # 4060 Dolton										
LE PLAN, PHASE DESIGNATION		F.A.P RTE.	SECTION		COUNTY	TOTAL	SHEET NO.				
	ICLE PREEMPTION SEQUENCE VARIOUS		JS COOK		87	36					
) AT LINCOLN AVENUE							CONTRACT NO. 60X24				
S	STA. TO STA.	FED. RO	AD DIST.	NO.	ILLINOIS	FED. A	D PROJECT				





TR	TOTAL				
ELEC	5	WATTAGE			
TYPE	NO. OF LAMPS	WATI XINCAND.	LED 3	× % OPERATION	
SIGNAL (RED)	9		17	0.50	76.50
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
RROW	-		12	0.10	-
PED. SIGNAL	6		25	1.00	150.00
ONTROLLER	1		100	1.00	100.00
LLUMINATED SIGN	-		25	0.05	-
IDEO SYSTEM	-		150	1.00	-
.UMINAIRE	-	250		0.50	-
BATTERY BACKUP	1	25		1.00	25.0
LASHER				0.50	
ENERGY COSTS T	0:			TOTAL =	441.50
				ON	

VILLAGE OF DOLTON

14014 PARK AVENUE DOLTON, IL 60419

DATE

SURVEYED PLOTTED ALICOMENT CHECKED RT. OF WAY CHECKED

PL AN NOTE BOOK NO.

ENGINEERING LTD.

CHRISTOPHER B. BURKE B977 Weat Higher Stoad, Suite 600 (847) 823-0500 (847) 823-0500

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ENERGY	SUPPLY:	CONTACT:	BRAD SHINABARGAR
		PHONE:	(708)-235-2692

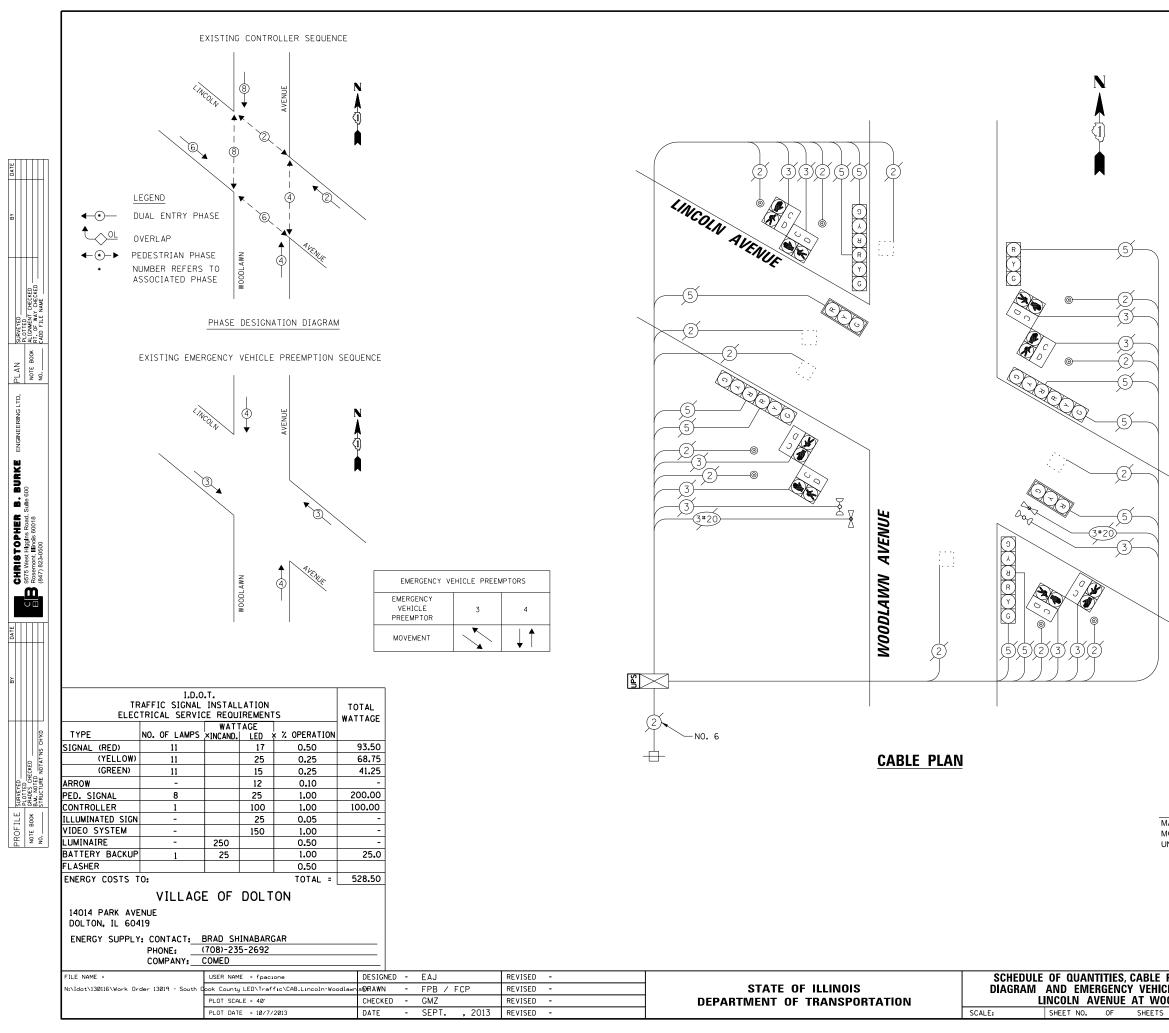
		2
3 3#20 5 (142nd	STREET	

CABLE PLAN

ENERGY SUPPLY: CONTACT: PHONE: COMPANY:	(708)-235-2692						TS # 11365 Dolton
FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.P SECTION	COUNTY TOTAL SHEET
N:\Idot\130116\Work Order 13019 - South	ook County LED\Traffic\CAB_142nd-Woodlawn.s	•DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	VARIOUS	COOK 87 38
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	142nd STREET AT WOODLAWN AVENUE		CONTRACT NO. 60X24
	PLOT DATE = 10/7/2013	DATE - SEPT. , 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS F	FED. AID PROJECT



SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

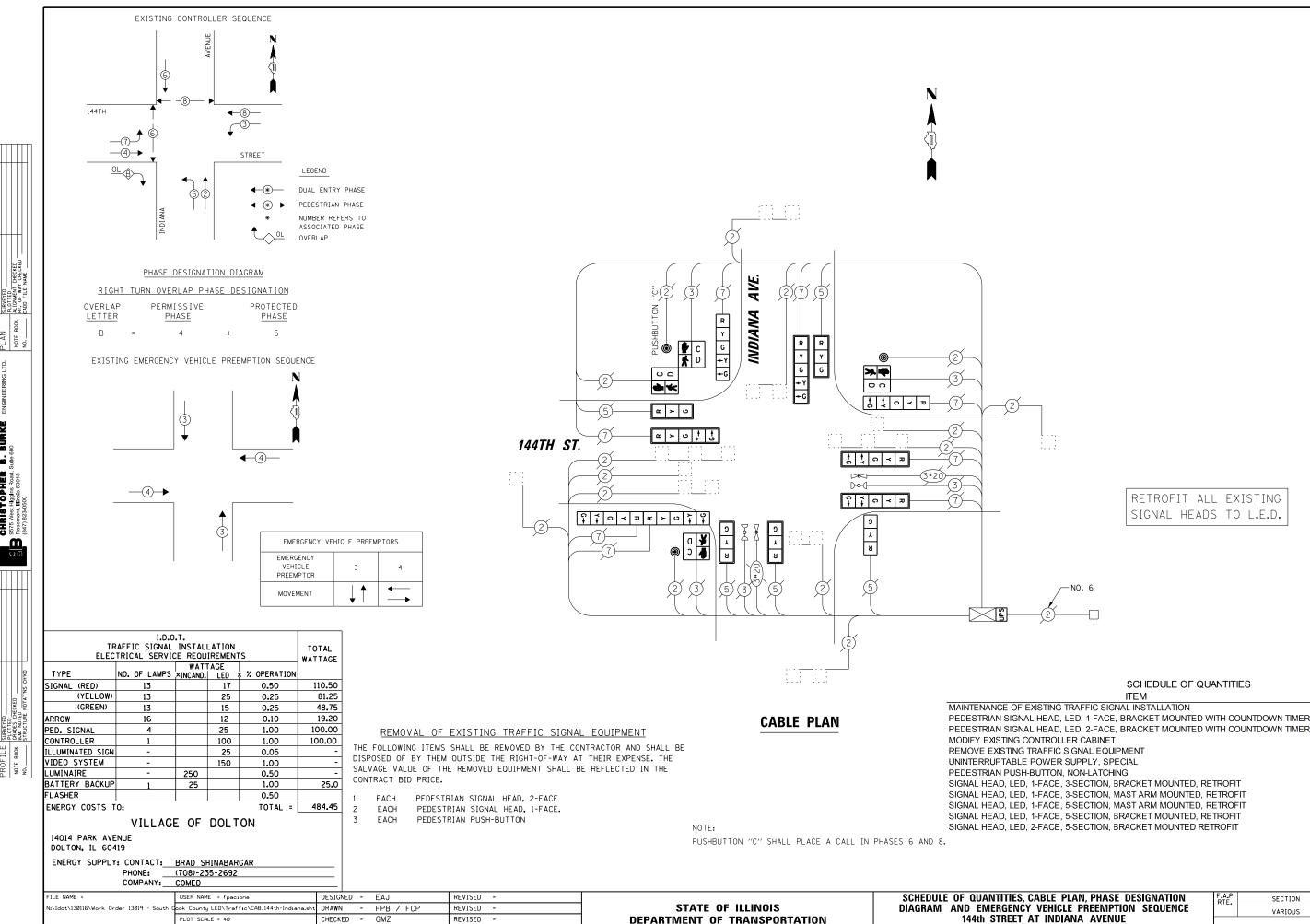


UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

# TS# 11370 Dolton

PLAN, PHASE DESIGNATION ICLE PREEMPTION SEQUENCE OODLAWN AVENUE		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			VARIOUS	СООК	87	39		
OODLAWN AVENUE					CONTRACT	NO. 60	DX24	
s	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



SEPT.

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REVISED

2013

DATE

PLOT DATE = 10/7/2013

AN PLA NOTE NO.\_ e BURKE **n** a CHRISTOPHER 9575 West Higgins Road, Si Rosemont, Illinois 60018

PEDESTRIAN SIGNAL HEAD MODIFY EXISTING CONTROL REMOVE EXISTING TRAFFIC UNINTERRUPTABLE POWER PEDESTRIAN PUSH-BUTTON SIGNAL HEAD, LED, 1-FACE SIGNAL HEAD, LED, 1-FACE SIGNAL HEAD, LED, 1-FACE SIGNAL HEAD, LED, 1-FACE

SHEET NO. OF SHEETS

SCALE:

	DOLTON									
PLAN, PHASE DESIGNATION CLE PREEMPTION SEQUENCE		F.A.P RTE.		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
				VAR	IOUS		COOK	87	40	
DIANA AVENUE								CONTRACT	NO. 6	0X24
S	STA.	TO STA.	FED. RO	AD DIST.	NO.	ILLINOIS	FED. AI	D PROJECT		

D, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
D, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
DLLER CABINET	EACH	1
C SIGNAL EQUIPMENT	EACH	1
R SUPPLY, SPECIAL	EACH	1
N, NON-LATCHING	EACH	3
E, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1
E, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
E, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
E, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2
E, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	1
	<b>⊤</b> ⊂ #	17000
	15 #	13090
		N .

QUANTITY

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UNIT

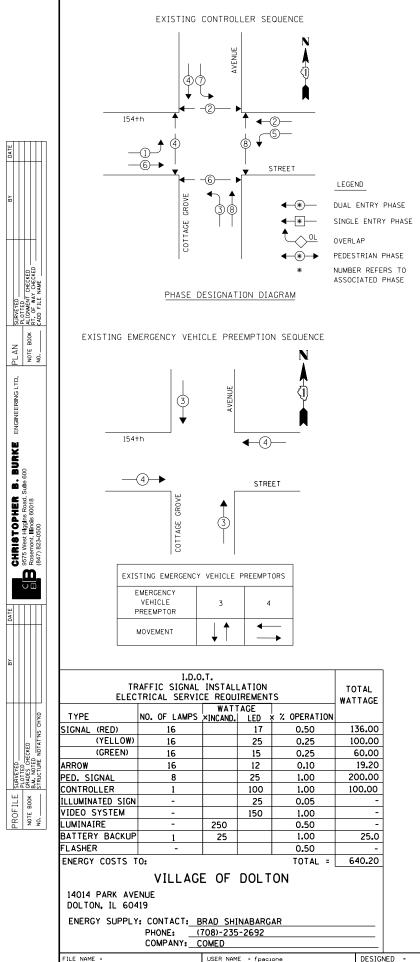
EACH

ITEM

NO. 6

RETROFIT ALL	EXISTING
SIGNAL HEADS	TO L.E.D.

SCHEDULE OF QUANTITIES

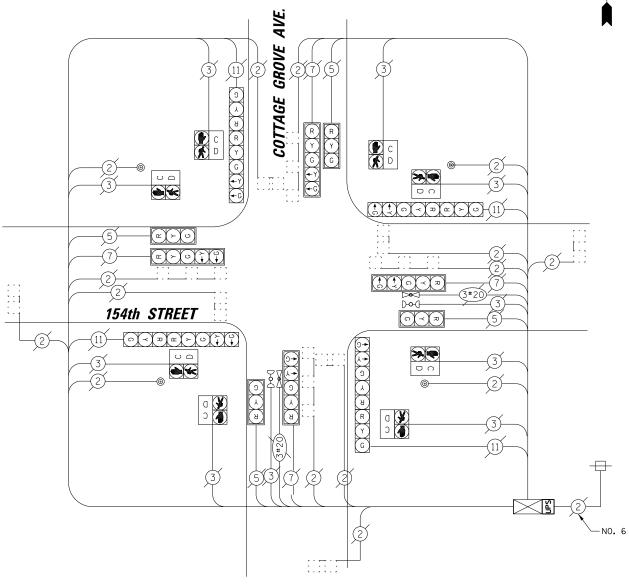


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**CABLE PLAN** 

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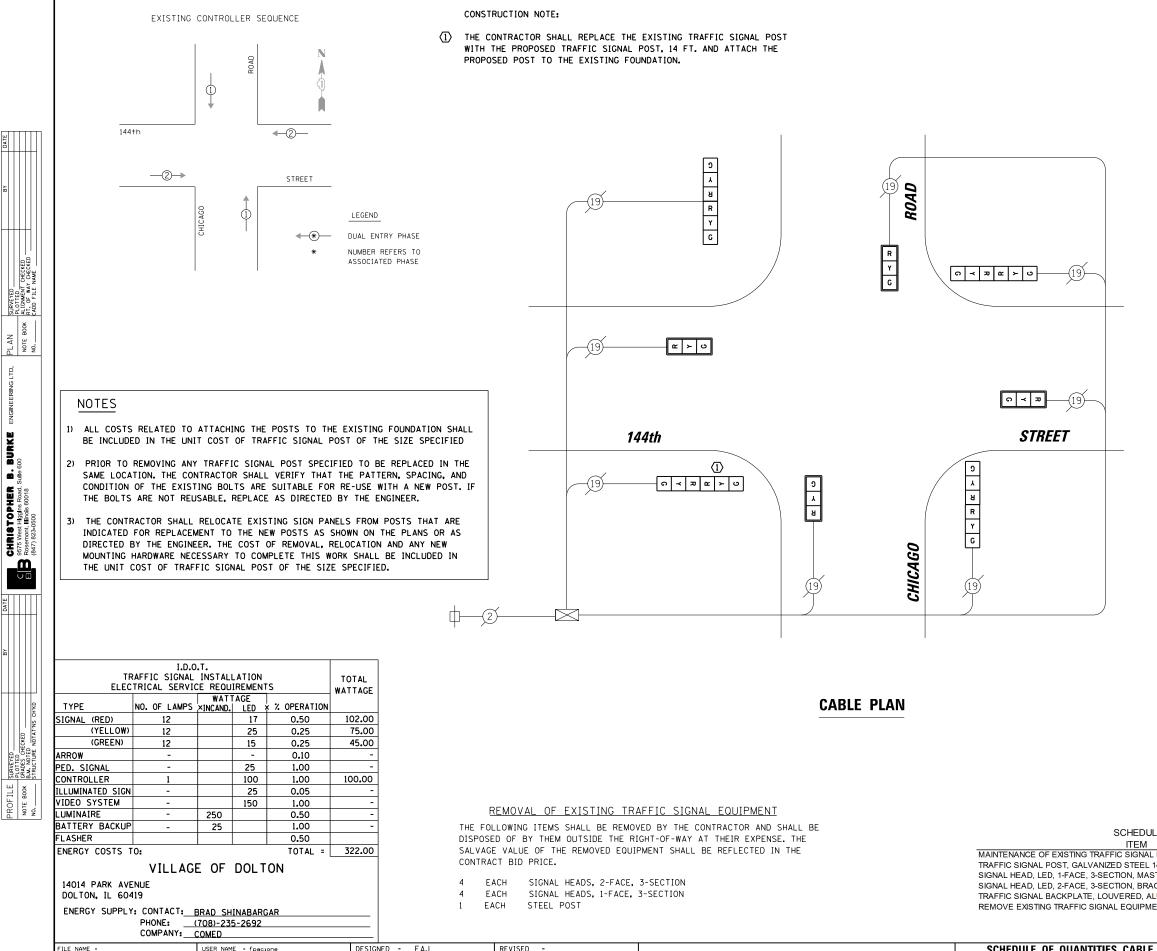
MAINTENANCE OF EXISTING TRAFFIC SIGNA MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPEC

FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -			OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.P SECTION	COUNTY	TOTAL	SHEET	
N:\Idot\130116\Work Order 13019 - South C	ook County LED\Traffic\CAB_CottageGrove-154	u+DBANNN - FPB∕FCP	REVISED -	STATE OF ILLINOIS		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	VARIOUS	СООК	87	41	
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION		COTTAGE GROVE AVENUE AT 154TH STREET		CONTRACT	NO. 60	0X24	
	PLOT DATE = 10/7/2013	DATE - SEPT. , 2013	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FE	D. AID PROJECT			



CHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
AL INSTALLATION	EACH	1
	EACH	1
CIAL	EACH	1

# TS # 11480 DOLTON



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ISTOPH Vest Higgins F nont, Illinois 60

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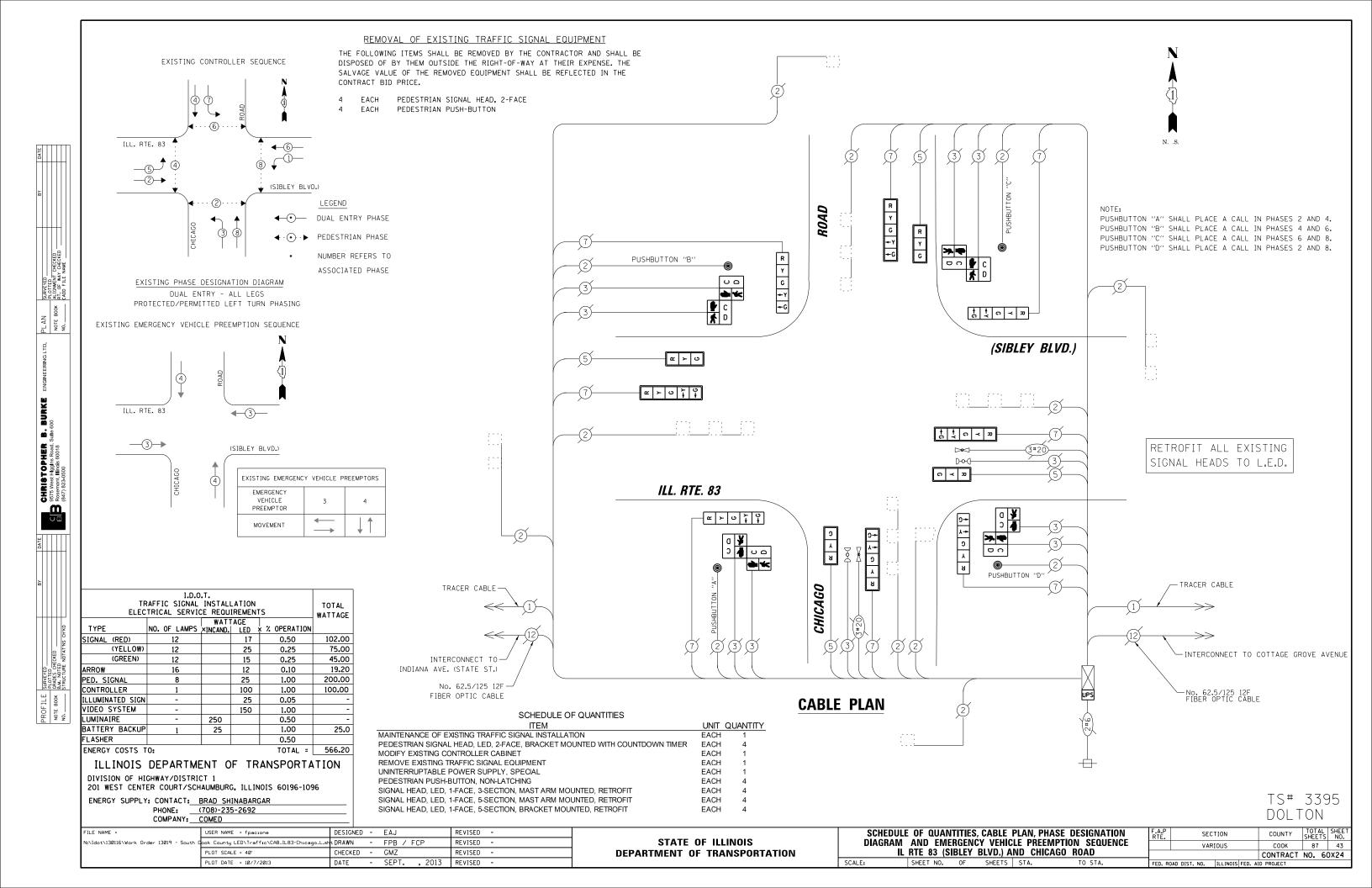
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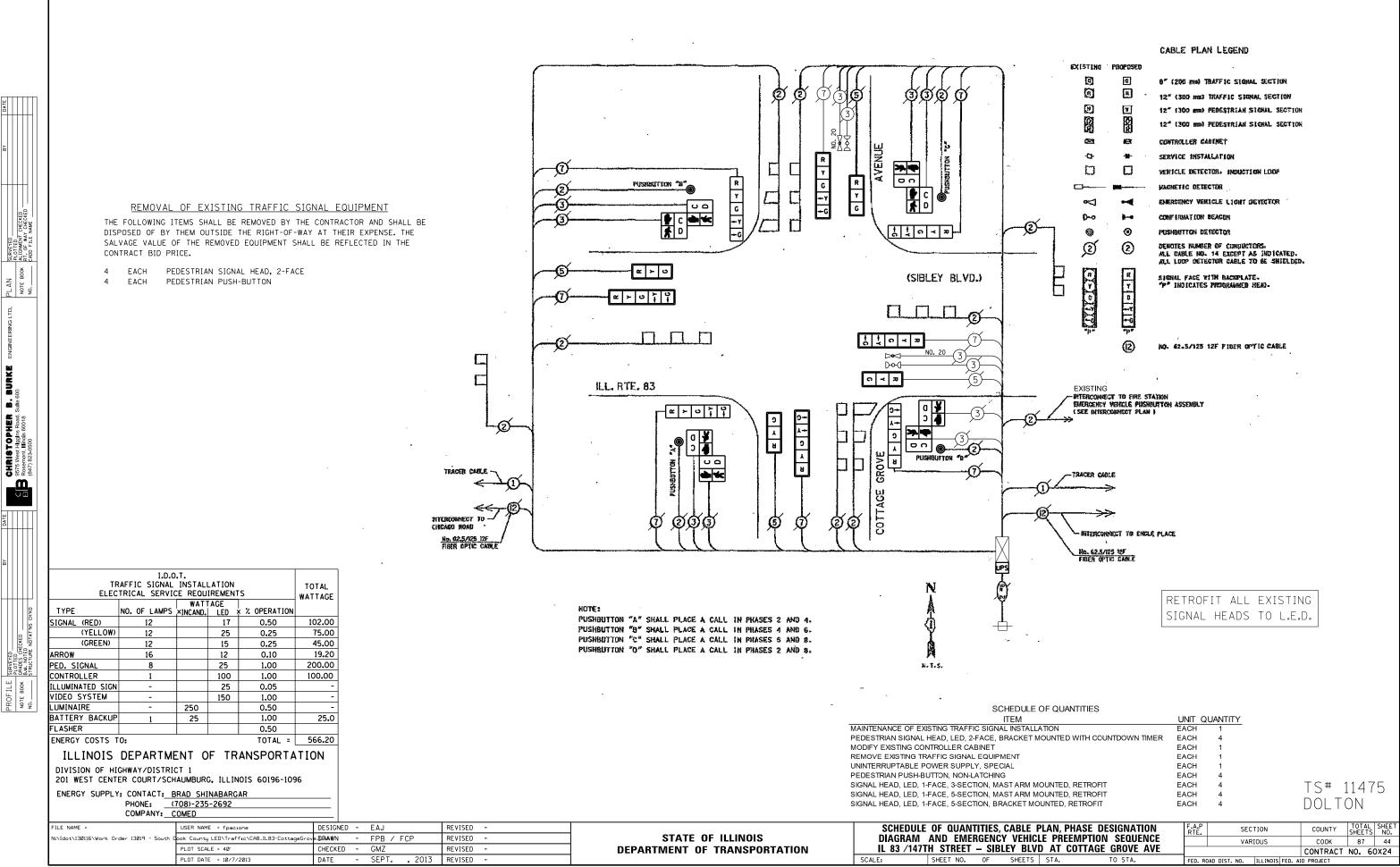
FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ		REVISED	-		SCHEDULF	E OF QUANT	TITIES,	CABLE P
N:\Idot\130116\Work Order 13019 - South C	ook County LED\Traffic\CAB_144th-Chicago.sht	DRAWN - FPB /	FCP	REVISED	-	STATE OF ILLINOIS	DIAGRAM	AND EMER	RGENCI	Y VEHICL
	PLOT SCALE = 40'	CHECKED - GMZ		REVISED	-	DEPARTMENT OF TRANSPORTATION		144th ያ	STREET	' AT CHI
	PLOT DATE = 10/7/2013	DATE - SEPT.	, 2013	REVISED	-		SCALE:	SHEET NO.	OF	SHEETS



# SCHEDULE OF QUANTITIES

	UNIT	QUANT	TITY				
L INSTALLATION	EACH	1					
14 FT.	EACH	1					
ST-ARM MOUNTED	EACH	4					
ACKET MOUNTED	EACH	4					
LUMINUM	EACH	4					
ENT	EACH	1			TS #	113	15
					DOLT	ON	
PLAN, PHASE DESIGNAT		F.A.P RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
ICLE PREEMPTION SEQUI	:NCE		VAF	RIOUS	СООК	87	42
HICAGO ROAD					CONTRACT	NO. 6	0X24
'S STA. TO STA.		FED. RC	AD DIST. NO.	ILLINOIS FED. A	ID PROJECT		





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		PHASE DESIGNATION	F.A.P RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
		EEMPTION SEQUENCE		VAR	IOUS	СООК	87	44
/	DAL	COTTAGE GROVE AVE				CONTRACT	NO. 60	)X24
	STA.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS FED. AI	D PROJECT		

# EXISTING EMERGENCY VEHICLE PREEMPTION

		5	SEC	)UE	ENC	<u>E</u>	OF	<u> </u>	PE	RA	TIO	N																			PREEMPTON NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5,	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1			5					10		-		1	5		1	8			22				27				31					
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	10	1D	1E	١F	1G	1H	1J	١ĸ	1L	1M	1N	1P	10	1R	1S	17	1U	17	1₩	1X	iY	1Z	184	1AB	1AC	1AD	1AE	1AF	2	3	4	RESUME NORMAL
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL	1B	2,3 08.4	1D	1E	20R4	16	3	1J	1K	20Rg	11	3	1P	10	2 <sub>or4</sub>	3	11	2,3 0r 4	1V	1W	2 <sub>OR3</sub>	î۲	4	1AA	20R3	4	1AD	1AE	2 OR3	4				SEQUENCE
ILL. 83 E/B FAR RIGHT SIGNAL	R		G	Y	R	G	G	R	R	R	R	R	G	Y	R	Ģ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	R	\$
ILL. 83 E/B FAR LEFT AND END MAST ARM SIGNALS	R ₩Y	R	G ₩G	Y	R	G -≠G	G	R	R	R	R	R	G	Y	R	G	Ŕ	R	R	R	R	R	R	Ŕ	R	R	R	R	R	R	-GG	G	R	\$
ILL B3 W/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	C	Y	R	G	G	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	~~
ILL 83 W/B Far left and end mast arm signals	R	R	R	R	R	R	R	G ₩G	Y	R	G ₩G	G ⊸Y	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	•
GREENWOOD RD. N/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	R	R	R	G	Y	R	G	R	R	G	\$
GREENWOOD RD. N/B FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ≁Y	R	-GG	Y	R	50	G ★Y	R	R	R	G	Y	R	G	R	R	G	\$
GREENWOOD RD. S/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Ģ	G	Y	R	G	R	R	G.	\$
GREENWOOD RD. S/B FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R ⊸Y	R	R	R	R	R	R	Y	R	e ∳e	G	Y	R	G	R	R	G	` <b>\$</b>
PEDESTRIAN SIGNALS CROSSING ON SOUTH SIDE OF GREENWOOD RD.	DW	D₩	FL DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	FL	DW	DW	FL DW	D₩	DW	D₩	DW	DW	D₩	D₩	D₩	D₩	DW :	D₩	D₩	D₩	DW	D₩	DW	DW	<u>ہ</u>
PEDESTRIAN SIGNALS CROSSING ON NORTH SIDE OF GREENWOOD RD.	DW	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	FL DW	DW	FL DW	DW	D₩	FL DW	DW	DW	DW	D₩	D₩	DW	D₩	Ð₩	DW	D₩	DW	D₩	Đ₩	DW	DW	DW	DW	\$
PEDESTRIAN SIGNALS CROSSING ON EAST SIDE OF ILL. 83	DW	D₩	D₩	DW	D₩	DW	DW	}		1	L	<u> </u>	F		F	<u> </u>									D₩				D₩			DW	DW	\$

\* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION

\*\* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

O THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

W = "WALK"

FL = Flashing "don't walk"

DW = "Don't Walk"

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EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION ON PROPER CLEARANCE INTERVAL TO DISPERIALY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 IS TERMINATED.

FIRE STATION PUSH BUTTON SHALL CALL EVP SEQUENCE 2, PREMPTOR 3.

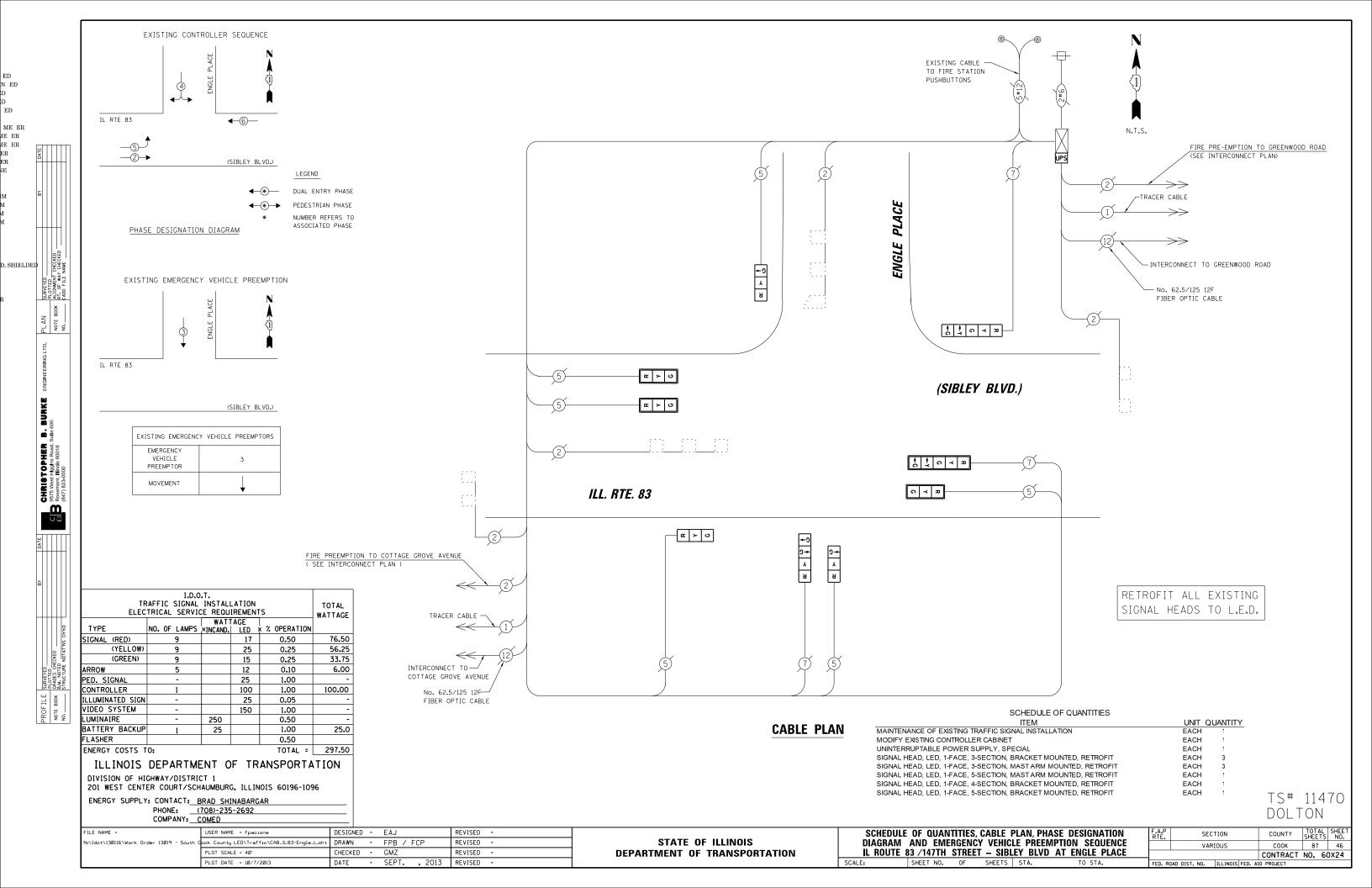
# EXISTING SEQUENCE OF OPERATION

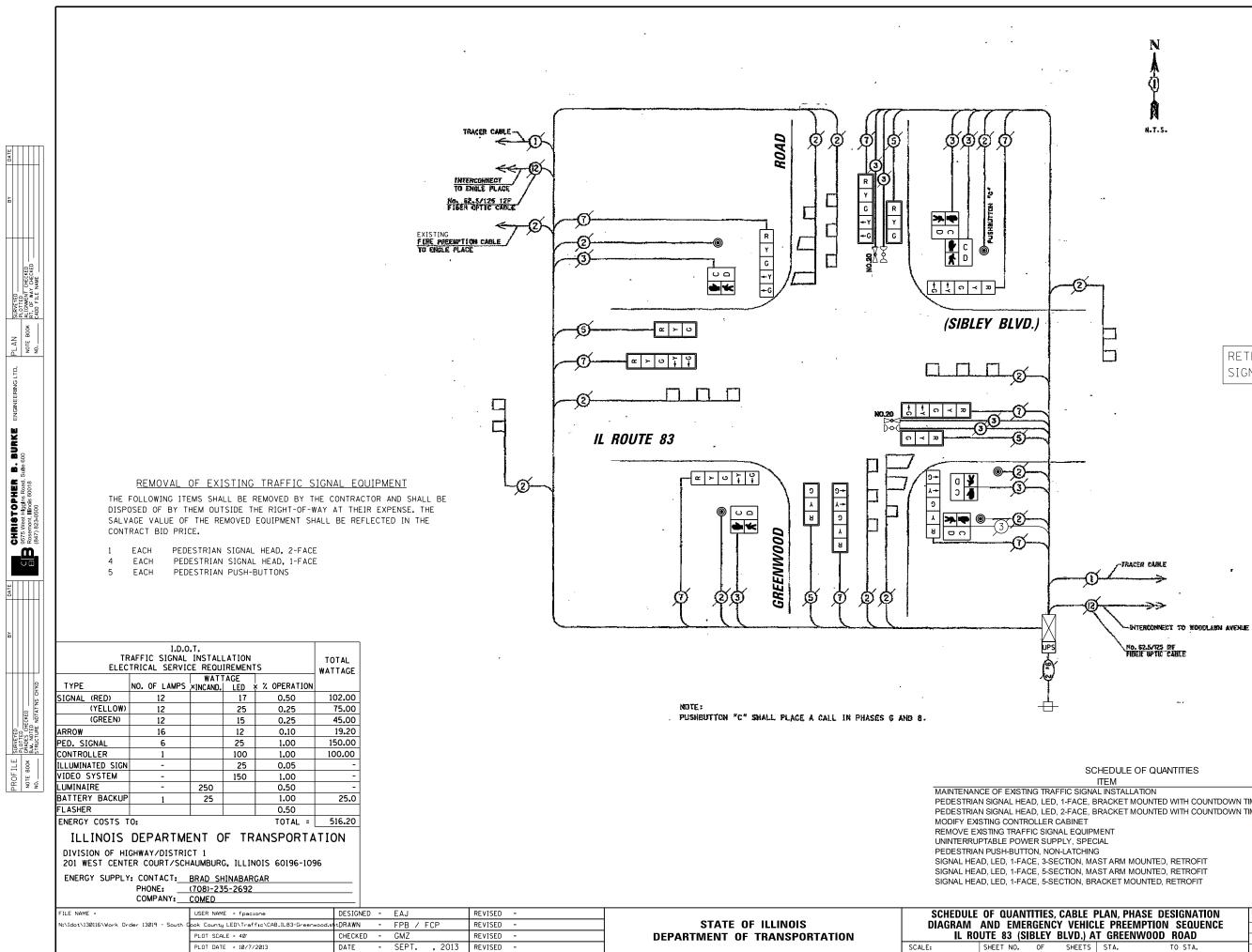
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KOVENENT		و	ſ	- 1		•		5* 2*											1	سابة الريسية سابة	r 6			37	÷7			ат • .	•	] † 3 8	1					‡	4		_			ţļ	; ]	• •	F
phase		1	+ 5					<u>s</u> + i	5						1 + (	5				2 +	6			34	+ 7				2	3 4 8	3´	ىم بېرىلىمار خەر			,	,	4 +	7			Γ	4	+ 8		1,
HTERVAL	1	2	3	4	5	8	74	18	8	94	98	10	11	12A	128	13	144	148	15	16	174	179	18	19	20	21	22	23	24A	248	25	26A	26B	27	28	29A	298	30	31A	318	32	33	34A	346	ן ני
снинее то	$\left  \right $	2+5	1 +6	2+6 3+7 3+9 4+7 4+8	$  \rangle$	<b>A</b>	1	45	2+6	1+ 3+ 3+ 4+ 4+	7 8 7	0	1	1	45	2+6	3	+7	$\backslash$	$\backslash$	34 34 44 44	HT		4+7	3+8	115 146 245 245 49	*	0	34	7	4+8	24	15 16	*	Ň		+7	4+18	22	15 +6 +5 +5 +5	$\left[ \right]$	$\Lambda$	1	+5 +6 +5 +5	н
LL. ATELAJ E/8 FAR NORT SIGNAL	R	R	R	R	0	G	Y	R	8	Y	R	R	R	R	R	A	R	R	0	C	Y	R	R	R	R	R	- R	R	R	R	8	R	R	R	R	R	R	R	R	я	a	R	R	R	F
ALLATE BY CAR PAR LEFT AND END MAST AND STONALS	я 	R -+G	R 	1	0 +(	0	Y	R	6 -+Y	۲	Ŕ	R	R	R	R	Я	R	R	Q	Q	۲	F	A	R	R	R	R	R	R	R	R	8	R	R	R	R	R	R	R	R	R	R	R	R	T
LL. 27E. 83 W/B FAR SIGHT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	C	G	¥	R	G	۲ (	R	a	G	Y	R	R	R	R	R	R	R	я	R	R	R	R	8	R	R	R	R	8	R	R	R	A	R	F
LL. RTE. 03 W/B FAR LEFT AND END MAST ARM SIGNALS	R ⊸⇒G	А 		<i>N</i>	R	R	R	R	R	R	R	G ⊸∎G	¢ -40	Y -4G	R	G 		R	٥	6	۲	8	R	R	R	R	R	a	я	R	R	R	R	R	a	R	R	R	R	R	R	R	R	R	1
COTTAGE GROVE AVE. N/8 FAR	B	R	ß	R	R	R	R	R	R	R.	R	R	A	R,	A	R	R	8	R	R	R	R	R	R	R	R	G	Ĵ <b>G</b>	Y	R	- G	Y	R	R	R	R	R	R	Ŗ	8	Q	8	۲	R	T
CUTTAGE GROWE AVE, NOU FAR LEFT AND END MASS AND SIGNALS	R	R	R	R	R	Я	R	R	R	R	R	R	R	R	A	R	R	я	Æ	я	R	я	4 a	 	R 	R 1 Y		G ¢G	¥ +G	R ~•6	Y	۲	R	R	R	R	R	R	R	R	c	G	Υ	R	Ţ
COTTADE ONOVE AVE. S/R FAR MONT SHENAL	R	Ñ	8	R	R	R	R	8	я	R	R	Я	Ħ	R	R	R	R	Ŗ	R	R	R	R	ß	R	R	R	R	R	R	R	Я	R	R	Ģ	D	T	R	G	Y	R	0	C	Y	R	1,
COTTAGE GROVE AVE, S/B FAR LEFT AND END MAST ANN SIGNALS	n	8	18	Я	R	R	R	R	R	R	8	R	Ħ	R	R	R	я	R	R	Ŗ	R	R	4 8 5 8		₽ -•¥	R ⊸≼Y	R	R	8	R	19	ភ	R	6			R +G	G -4Y	r	R	6	6	l v	R	,
PEDESTRIAN SIGNALS PROSSIND ON SOUTHSIDE OF COTTAGE GADVE AVE.	DW	ŌW	₽₩	0%	***	₩#F DW	0¥	0¥	0₩	DW	₽₩	DW	ØW	0w	DW	GW/	0%	DW	wiji	##FL DW	04	D¥	0W	DW	DW	σv	DN	D₩	ิญช	D%	DW	QW				******		+		CW	OW	DA	٥v	OW	DAT
PEDESTRIAN SIGNALS CROSSING ON WESTSIDE OF ILL. ATE. 03	O¥	DŴ	DW	ÐW	0%	ØW	DN	ow	D¥	DH	DW	DW	94	DW	De	DY	DW	D¥.	01	0₩	0¥	Ø₩	0W	DW	04	٥v	Dvit	W0	0W	DW	₽₩	DW	0¥	<b>₽</b> ₩/	#### D#	0w	DW	DW	OW,	DW	*1	##FL	' ow	5¥	OAF
PEDESTRIAK SIGNALS CROSSING OK NORTHSIDE OF COTTACE GROVE AVE.	C/W	6W	0%	CW.	מא	O¥	DW	DW	DW	0W	0W	**B	017 [ 017	DW	٥w	DW	DW	DW	**	est-L Dat	DW	DIV	9 <b>4</b>	DW	DW	DA	DAN.	D¥	DW	Ð¥	٥w	04	D₩	04	D¥	DW	01	זייס	9W	0₩	DW	DW	OW	ØW	104
PEDESTRIAN SIGNALS CROSSING ON EASESINE OF RU. RTL. 82	QW	DW	DW	DW	OW	04	Ø¥	04	DW	1141	0¥	o₩	DW	DW	0%	014	0¥	рж	D#	DW	DW	DW	D:44	Ø₩	OW	ฌพ	¥#	₩¥FL DH	DĦ	DW	¥N	ØW	DW	DW	0#	011	0₩	DW	DW	0W	<b>TH</b>	ANF1	0.	01	24

FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -			SEQUENCE OF OPRATION AND	F.A.P SI	ECTION	COUNTY TOTAL SHEET
N:\Idot\130116\Work Order 13019 - South D	ook County LED\Traffic\SEQ_IL83-CottageGrov	∍£0RAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS	EN EN	MERGENCY VEHICLE PREEMPTION SEQUENCE	v	ARIOUS	COOK 87 45
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 83 /147	TH STREET – SIBLEY BLVD AT COTTAGE GROVE AVE			CONTRACT NO. 60X24
	PLOT DATE = 10/7/2013	DATE - SEPT. , 2013	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID	

TS# 11475 DOLTON

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ITEM		UNIT	QUANTITY			
NAL INSTALLATION		EACH	1			
, BRACKET MOUNTED WITH COUNTDOWN T	IMER	EACH	4			
, BRACKET MOUNTED WITH COUNTDOWN T	IMER	EACH	1			
•		EACH	1			
IPMENT		EACH	1			
ECIAL		EACH	1			
ING		EACH	5			
MAST ARM MOUNTED, RETROFIT		EACH	4			
MAST ARM MOUNTED, RETROFIT		EACH	4	TC #	111	сг
BRACKET MOUNTED, RETROFIT		EACH	4	TS #	114	65
				DOLT	ON	
PLAN, PHASE DESIGNATION	F.A.P RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ICLE PREEMPTION SEQUENCE			VARIOUS	СООК	87	47
AT GREENWOOD ROAD				CONTRACT	NO. 60	DX24
S STA. TO STA.	FED. RC	AD DIST. N	0. ILLINOIS FED.	AID PROJECT		

SIGNAL HEADS TO L.E.D.	RETROFIT ALL	EXISTING
	SIGNAL HEADS	TO L.E.D.

**EXISTING** SEQUENCE OF OPERATION

ugwelight	9	; <sup>1</sup>	ſ	- 1				ž								<b>;</b>					2	****** -#**** * * *	6		3	1	7				4	) † 3 8	1					ţ	4	† (				1	i ț	1		
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WTERVSL.	1	2	3	1	1		6	74	78	8	94	9B	10	11	12/	121	1	\$ 14	A 14	B	5 10	1 17	A 17	1 1	8 1	9	20 1	21	22	23	24A	248	25	26A	26B	27	28	29/	29	3 30	1 31	A 31	<b>e</b> 3	12 3	3 3	14A	348	
CHANGE TO	$\mathbb{N}$	2+5	1,*	2+ 3+ 5 3+ 4+ 4+		¢ \	$\mathbb{A}$	14	;	2+6	14 34 44 4	+7 時 +7	1	N°	E	45	2+	6	2+5 3+1 3+8 4+7 4+8	T	$\overline{\mathbb{N}}$		3+7 3+8 4+7 459	$\overline{\Lambda}$		+7 3	+8 2 2	<b>₩</b> 1 E	*	0	<b>3+</b>	7	4+18	2224	16	1	N		347	4+	8	145 146 245 216 348	T			1+) 1+) 2+) 2+)	16 15	1
LL. ATELAJ E/B FAR Nont Skral	R	R	R	R	T	5	6	Y	R	8	۲	R	R	R	8	R	ī		F	1	) 0	Ţ	/   R	1,	1	R	R	R	R	R	R	R	8	R	R	R	R	Я	R	R	R	я	1	a 1	R	R	R	T
ALLATE OJ CAS PAR LEFT AND END MAST ANK SIDNALS	н -+0					0 -		- 6	R + 0	6 -+Y	۲	Ŕ	R	R	8	R	я	R	F	1	3 0	1	r F	1	3 1	9	R	8	R	R	R	R	R	8	R	R	R	R	R	R	R	R	1	R I	R	R	R	T
ILL. ATE. BY W/B FAR RIGHT SHUAL	R	R	F	6	1	1	R	8	я	R	R	R	¢	C	Y	R	1	7   Y			3 6	٦ï	R	6	1	*	R	R	R	R	R	R	R	R	R	8	R	R	R	R	R	R	11	8 1	R	R	R	T
ALLATEL OS WAR FAR LEFT AND END MAST ARM SIGNALS	R -≼G		6	c	ų I	T	R	R	R	R	-	R	G −∎G	G 	Y	R	,		F	2 0	) 0		r R		1	R	R	R	R.	R	8	R	R	R	R	R	A	R	R	R	R	R	1	8 6	R	R	R	T
COTTAGE GROVE AVE. N/8 FAR BICHT SIGNAL	R	R	R	R		1	n	R	R	R	R,	R	R	A	R	A	F	R	f	3	8 8	F	R	1	1	3	R	R	G	3	Y	-	- G	۲	A	R	R	R	R	R	. R	8	1	Q Q	ß	Y	R	T
CUTTAGE GROVE AVE, N/U FAR LEFT AND END MAST ARU SIGNALS	R	R	A	R	T	1	П	R	R	R	R	A	R	R	R	A	F	R_1	5	1	ŧ Я	F	I R		6			R NY		G +G	Y -+G	R ~•• 5	4 Y	۲	R	R	R	R	R	F	1 12	R		6 (	c [	Y	R	ţ
COTTADE ORDVE AVE. S/R FAR MCHT SREAL	R	ħ	R	ß		1	R	R	8	Я	R	R	R	R	R	R	ŗ	I A		1	R 8	F	1 6	T	1	R	R	R	R	R	R	R	R	R	R	G	D	Y	R	G	Y	R	1	0 (	0	Y	я	Ť
COTTAGE GROVE AVE. S/B FAR LEFT AND END NAST ANN SIGNALS	n	8	1 8	Я		2	8	R	R	R	R	R	R	A	R	R	1	I A	1	1	яЯ	A	R				R .	R ¢Y	R	R	8	Ħ	FR FR	Ħ	R	6	GG		R 	G 2 - 4	y Y	R	1 0	6 (	6	Y	R	1
PECESTRIAN SIGNALS EROSSOND ON SOUTHSIDE OF COTTAGE GROVE AVE.	DW	ON	DI	7 05		W W1	4FL 18	0¥	0¥	0₩	DW	₿₩	DW	OW	CI.M	DW	m	1 01	10	w -	W DW	1 0	w 03	f ât	W D	*	) W (	עת	, wo	DW .	QY	D%	DW	OW	OW	QW.	OW	OW	DW	t	1 27	1 01	w 0	ס שי	14	DW	DW	10
PEDESTRIAN SIGNALS CROSSING ON WESTSIDE OF ELL. ATE. 83	0¥	DW	BI	Ð	1 0	* 1	w	DN	ow	D¥	DĦ	DW	UW	98	אם	08	DN	1 01	# D	W 0	W D1	10	W D1	1 01	W D	w	)# E	71	DA	DW	0¥	0W	Đ#	₽₩	O¥	φ₩	###[ ]]#	01	DW	04	1 01	1, D1	*		FIL W	DW	₿¥	6
PEDESTRIAN SIGNALS CROSSING ON NORTHSIDE OF GOTTACE GROVE AVE.	DW.	ĐW	0%	1 63	1 0	* 0	1¥	DW	DW	DW	0W	08	#Ø	9600F ( 0117	OW	DW	DI	r Di	1 0	W *	W Da	L D	w Da	1 01	W D	14	DW I	74	DW	6 YO	DV	54	DW	017	DW	0H	D¥	DW	OW	יס	1 91	10	w [ 0	D W	NW I	DW	ŌW	0
PEDESTROAN SICHALS CROSSING ON EASESINE OF N.L. RTL. 82	0W	DW	DI		1 0	M (	141	ew	OW	DW	DW.	Ø¥	0₩	0%	DW	0.4	01	1 01	# 0	W D	# D1		W DI	I DI	8 0	W I	1¥ (	W	**		DW	שט	×N	DW	DW	Ðw	0W	DW	OW	01	v DV	1 81	<b>"</b> ]"			ow	07	Ī

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# EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

															_																		NUMBER 3	NUMBER 4	NUMBER 5	{
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1			5					10				1	5		1	18			22					27					32					
EMERGENCY VEHICLE PREEMPTION SEQUENCE: OF OPERATION INTERVAL NUMBER	1A	1B	10	10	1E	1F	10	1Ħ	11	1K	1L	1M	1N	1P	1Q	1R	15	11	10	11	1₩	1X	11	1Z	1	1AB	1AC	1AD	1AE	1AF	1AG	1AH	2	3	4	RESUME
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL	18	2,3 0R 4	1D	1E	2 OR	1G	3	1J	1K	20R	1M	3	1P	10	2084	3	17	2,3	11	1W	20R3	1Y	4	1	1AB	2 <sub>083</sub>	1AD	4	1AF	1AG	2,0R.2	4			:	NORMAL
ILL 83 E/B FAR RIGHT SIGNAL	R	R	G	Y	R	G	G	R	R	R	R	R	G	Y	R	C	R	R	R	T	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	\$
ILL. 83 E/B FAR LEFT AND END MAST ARM SIGNALS	_R ⊸Y	R	G -G		R	G	G	R	R	R	R	R	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	Ŕ	R	R	R	G	R	\$
ILL. B3 W/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	G	Y	R	G	G	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G .	R	•
HL B3 W/B FAR LEFT AND END MAST ARM SIGNALS	R Y	R	R	R	R	R	R	-G G	Y	R	G	-G -Y	G	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	R	\$
COTTAGE GROVE AVE. N/B FAR RIGHT SIGNAL	R	R	R	R	R	R	R	R	Ŕ	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	R	R	R	R	R	G	Y	R	G	R	R	G	•
COTTAGE GROVE AVE. N/B FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	-G G	Y	R	-G G	-G	R	R	R	R	R	G	Y	R	G	R	R	G	•
cottage grove ave. s/b Far right signal	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	Y	R	G	R	R	G	\$
COTTAGE GROVE AVE. S/B FAR LEFT AND END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	-G -G	Y	R	G -G		G	Y	R	G	R	R	<u> </u>	\$
PEDESTRIAN SKINALS CROSSING ON SOUTH SIDE OF COTTAGE GROVE AVE.	Đ₩	DW	FL DW	DW	DW	FL	DW	DW	DW	DW	DW	D₩	FL	DW	DW	FL	DW	DW	DW	D₩	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	D₩	DW	DW	DW .	•
PEDESTRIAN SIGNALS CROSSING ON WEST SIDE OF ILL. 83	DW	DW	DW	D₩	DW	DW	DW	DW	DW	DW	DW	DW						DW	DW	D₩	DW	DW	Đ₩	FL	DW	DW	DW	DW	FL DW	DW	DW	FL DW	DW	DW	DW	\$
PEDESTRIAN SIGNALS CROSSING ON NORTH SIDE OF COTTAGE GROVE AVE.						DW				DW		DW		DW						1	1	1	DW		t						+	1	DW	D₩	D₩	\$
PEDESTRIAN SIGNALS CROSSING ON EAST SIDE OF ILL. 63	1						1			DW	1	DW			1			DW	FL	DW	DW	FL.	DW	DW	DW	DW	FL DW	DW	FL	DW	DW	FL.	DW	DW	DW	~

\* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION

\*\* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

DW = "DON'T WALK"

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION ON PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 IS TERMINATED.

FIRE STATION PUSH BUTTON SHALL CALL EVP SEQUENCE 2, PREMPTOR 3.

FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -			SEQUENCE OF OPERATION AND	F.A.P RTF.	SECTION	COUNTY	TOTAL SHEET
N:\[dot\]3016\Work Order 13019 - South (	ook County LED\Traffic\SE0_IL83-Greenw	118718	REVISED -	STATE OF ILLINOIS		EMERGENCY VEHICLE PREEMPTION SEQUENCE		VARIOUS	СООК	87 48
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION		IL ROUTE 83 (SIBLEY BLVD.) AT GREENWOOD ROAD			CONTRACT	NO. 60X24
	PLOT DATE = 10/7/2013	DATE - SEPI. , 2013	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT	

PREEMPTOR PREEMPTOR PREEMPTOR

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SURVEYED BLOTTED PLOTTED R1. OF WAY CHECKED R1. OF WAY CHECKED CADD FILE NAME PLAN Note Book No.\_\_\_\_ ENGINEERING LTD. **BURKE** Sulte 6 CHRISTOPHER 9575 West Higgins Road, Sult Besemont, Illinois 60018 (847) 823-0500 DATE

PROFILE SURVEYED PLOTED CARDES CHECKED NOTE BOOK BAN NOTED NO. STRUCTURE NOTATYNS CHYCO

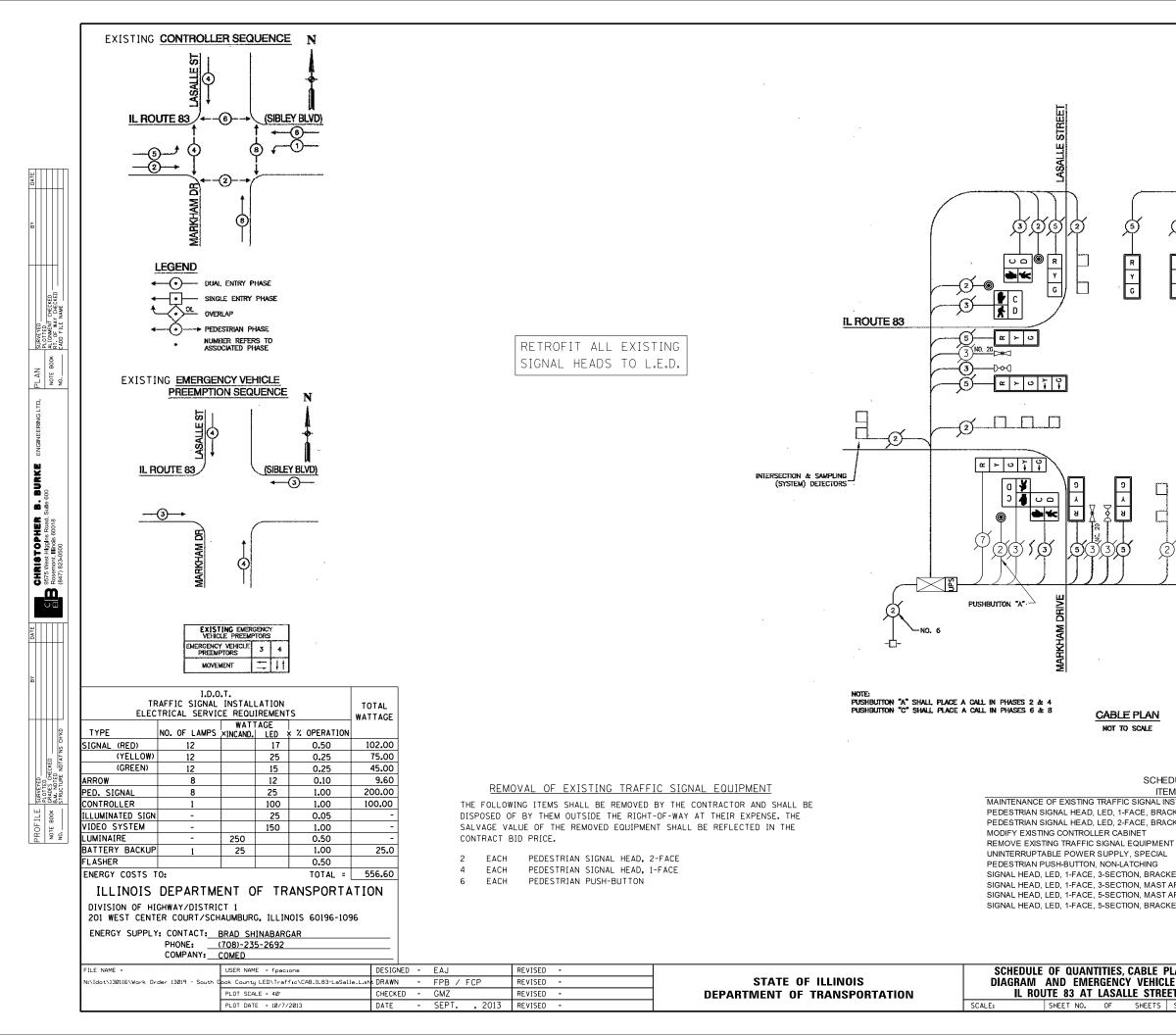
DATE

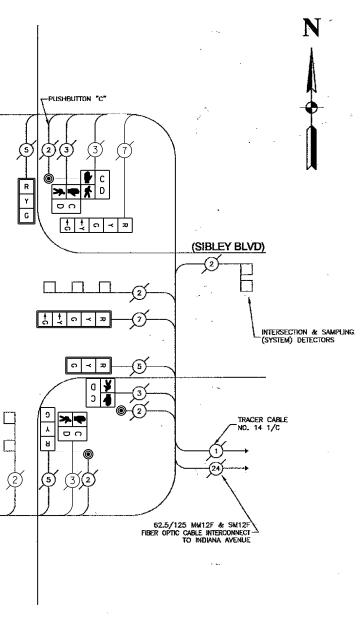
# TS# 11465 DOLTON

THIS "WALK" OR FLASHING "DON'T WALK" INTERVAL MAY FINISH TIMING IN THE BIDRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "WALK" OR FLASHING "DON'T WALK" INTERVALS.

W 🖙 "WALK"

FL == Flashing "don't walk"

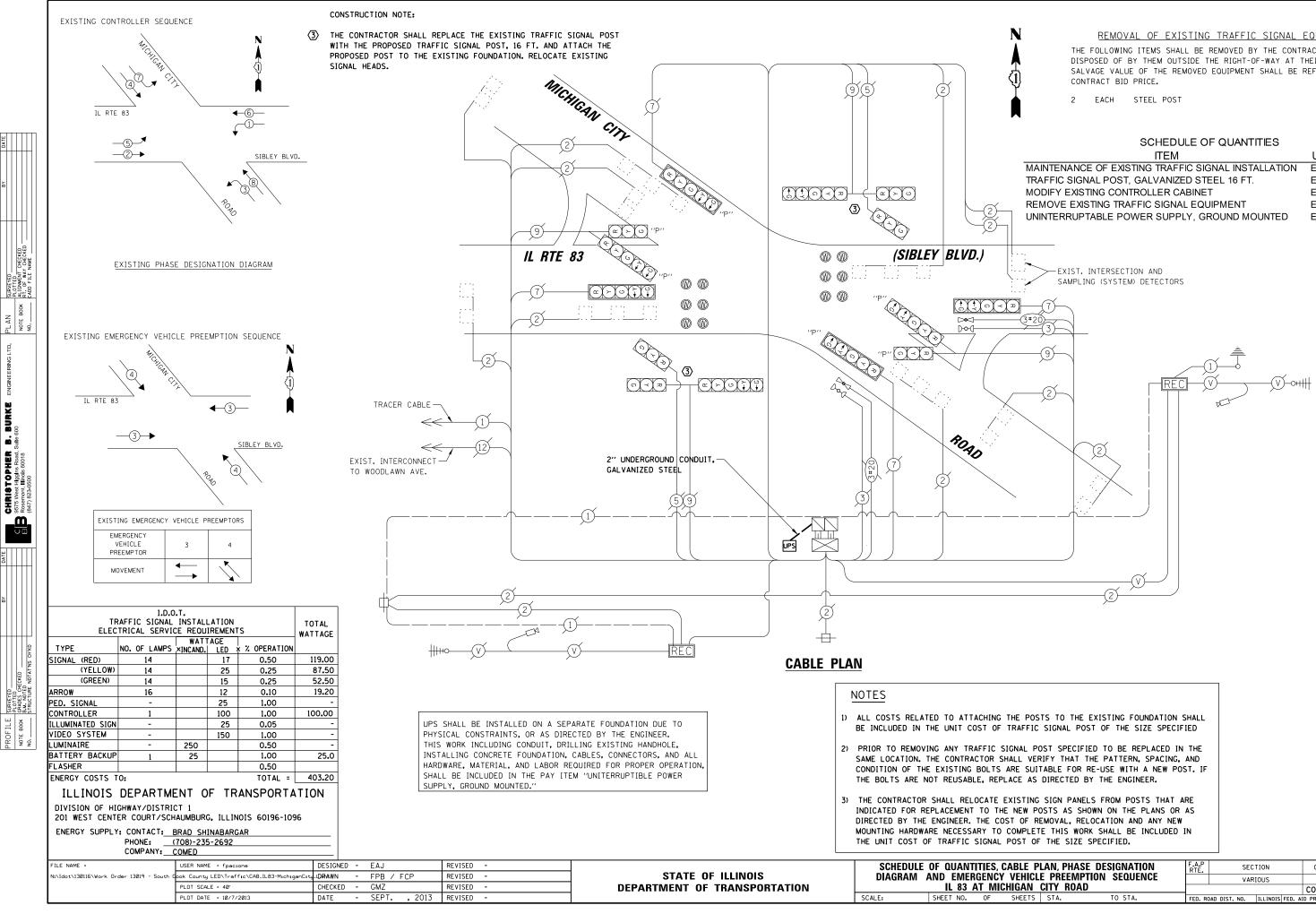




SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
IGNAL INSTALLATION	EACH	1
CE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
CE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
ET	EACH	1
QUIPMENT	EACH	1
SPECIAL	EACH	1
CHING	EACH	6
I, BRACKET MOUNTED, RETROFIT	EACH	2
I, MAST ARM MOUNTED, RETROFIT	EACH	6
I, MAST ARM MOUNTED, RETROFIT	EACH	2
I, BRACKET MOUNTED, RETROFIT	EACH	2

					[	DOLTO	Ν	
LAN, PHASE DESIGNATION E PREEMPTION SEQUENCE		Ś	SECTI	ON		COUNTY	TOTAL SHEETS	SHEET NO.
		١	VARIC	US		СООК	87	49
et /markham drive						CONTRACT	NO. 6	0X24
STA. TO STA.	FED. RC	DAD DIST. NO	). I	LLINOIS	FED. A	D PROJECT		

TS # 3465



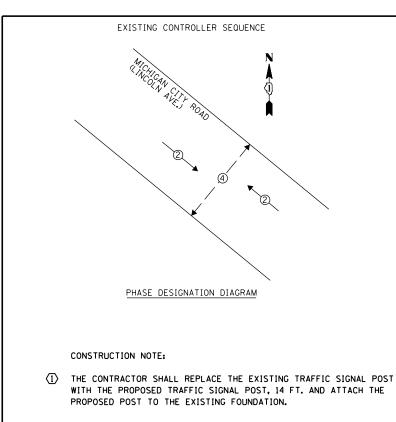
### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

ITEM	UNIT (	QUANTITY	
AINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	
AFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2	
DDIFY EXISTING CONTROLLER CABINET	EACH	1	
MOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
INTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	1	

# TS# 3475 DOLTON

CLE PREEMPTION SEQUENCE		F.A.P RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.	
			VAR	IOUS	СООК	87	50	
CITY ROAD						CONTRACT	NO. 60	)X24
5	STA.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS FED. A	ID PROJECT		



NOTES

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IISTOPHER West Higgins Road, S nont, Illinois 60018

CHF 9575 \ Roser (847) **\_** 

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ROF NOTE NO.

1) ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED

► Q

- 2) PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION. THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT REUSABLE, REPLACE AS DIRECTED BY THE ENGINEER.
- 3) THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT ARE INDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

TR	TOTAL				
ELEC	TRICAL SERVIC			S	WATTAGE
TYPE	NO. OF LAMPS	WATI ×INCAND.	TAGE	« % OPERATION	
SIGNAL (RED)	6		17	0.50	51.00
(YELLOW)	6		25	0.25	37.50
(GREEN)	6		15	0.25	22.50
ARROW			12	0.10	-
PED. SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
ILLUMINATED SIGN	-		25	0.05	-
VIDEO SYSTEM	-		150	1.00	-
LUMINAIRE	-	250		0.50	-
BATTERY BACKUP	1	25		1.00	25.0
FLASHER				0.50	
ENERGY COSTS T	0:			TOTAL =	266.00

# VILLAGE OF DOLTON

14014 PARK AVENUE DOLTON, IL 60419

ENERGY SUPPLY: CONTACT: BRAD SHINABARGAR PHONE: (708)-235-2692 COMPANY: COMED

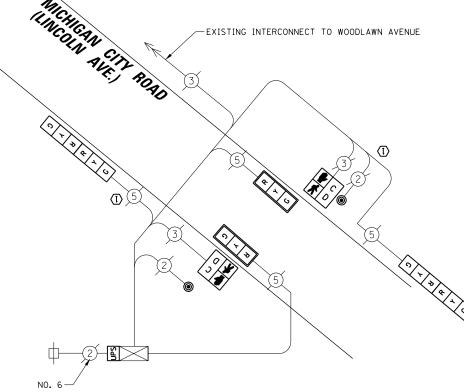
### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

EACH	SIGNAL	HEADS,	2-FACE,	3-SECTION
------	--------	--------	---------	-----------

- SIGNAL HEADS, 1-FACE, 3-SECTION EACH 2
- PEDESTRIAN SIGNAL HEAD, 1-FACE 2 EACH
- EACH PEDESTRIAN PUSH-BUTTONS 2
- 2 EACH STEEL POST

2



# **CABLE PLAN**

# ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INS TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 F SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-AI SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKE PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACK TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMI PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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FILE NAME =	USER NAME = fpacione	DESIGNED	) - EAJ	REVISED	-		SCHEDULE	OF QUAI	NTITIES,	, CABLE F	PL
N:\Idot\130116\Work Order 13019 - South C	ook County LED\Traffic\CAB_Lincoln-Avalon.sh	t DRAWN	- FPB / FCP	REVISED	-	STATE OF ILLINOIS		AND EMI			
	PLOT SCALE = 40'	CHECKED	- GMZ	REVISED	-	DEPARTMENT OF TRANSPORTATION		NCOLN A	VENUE	EAST OF	έı
	PLOT DATE = 10/7/2013	DATE	- SEPT. , 2013	REVISED	-		SCALE:	SHEET NO.	OF	SHEETS	

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

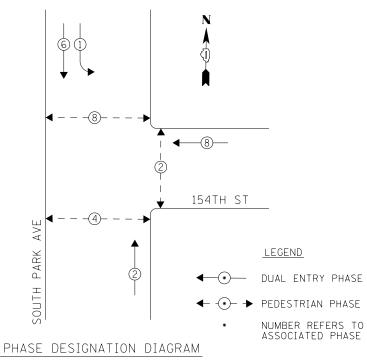


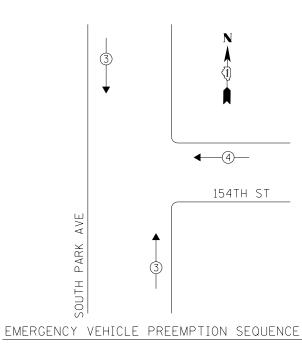
## SCHEDULE OF QUANTITIES

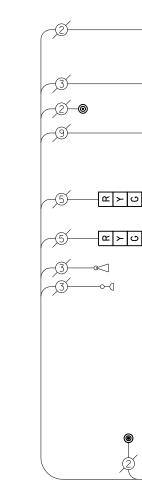
l		UNIT	QUANTI	ΤY		
STALLATION		EACH	1			
FT.		EACH	2			
ARM MOUNTED		EACH	2			
ET MOUNTED		EACH	2			
KET MOUNTED WITH COUNTDOWN	<b>I TIMER</b>	EACH	2			
/INUM		EACH	2			
		EACH	2			
		EACH	1			
Г		EACH	1			
		EACH	1			
				TS ‡	ŧ1143	30
				DOLI	ON	
PLAN, PHASE DESIGNATION	F.A.P RTE.	SECTI	ION	COUNTY	TOTAL SHEETS	SHEET NO.
CLE PREEMPTION SEQUENCE		VARIC	DUS	СООК	87	51
OF AVALON AVENUE				CONTRACT	NO. 60	X24
S STA. TO STA.	FED. ROAD	DIST. NO. I	LLINOIS FED. AI	ID PROJECT		



# CONTROLLER SEQUENCE







		I. D. O.	Т.		
	TRAFFIC S	SIGNAL I	NSTALL	ATION	
	ELECTRICAL	SERVICE	REQUI	REMENTS	
	NO. LAMPS	WAT	TAGE LED	20PERATION	TOTAL WATTAGE
SIGNAL (RED)	9		17	0.50	76.5
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	4		12	0.10	4.8
PED SIGNAL	6		25	1.00	150.0
CONTROLLER	1	100		1.00	100.0
VIDEO SYSTEM	0	150		1.00	0
BATTERY BACKUP	1	25		1.00	25.0
				TOTAL =	446.3
ENERGY COSTS-	BILI	ED TO:		DISTRICT 1 EST CENTER	COURT
			SCHAL	IMBURG, IL 6	0130-1030
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	2
	Р	HONE	708-3	25-2692	
			СОММО	ONWEALTH ED	ISON
					( 10
FILE NAME =	USER NA	ME = Brian So	iters	DESIGNED K	

# REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR

MOVEMENT

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.

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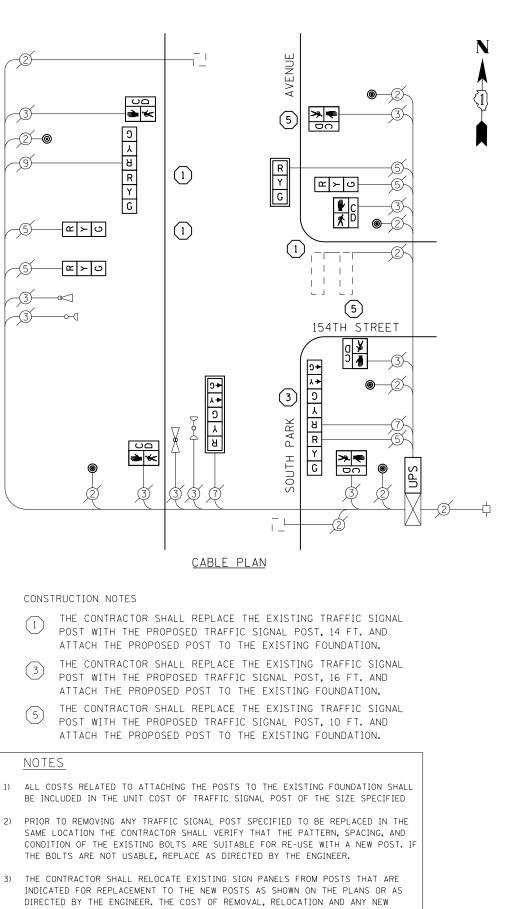
6 6	EACH FACH	PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN PUSH BUTTON
4	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION, 5-SECTION
6	EACH	STEEL POST

:	SCHEDULE	OF (	QUAN	TITIES
	ITEM			

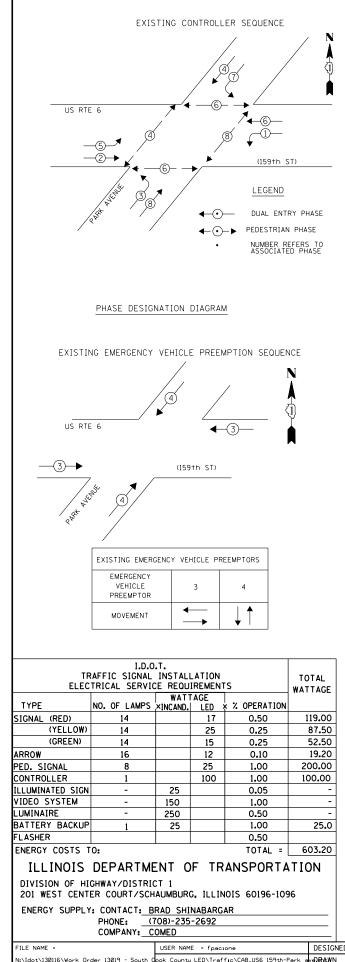
ITEM	UNIT	QUANTITIY	
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2	Γ
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1	
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1	
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TII	MER EACH	6	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	2	
PEDESTRIAN PUSH-BUTTON	EACH	6	
MODIFY EXISTING CONTROLLER CABINET	EACH	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1	

- (1)
- (3)
- (5)
- NOTES
- MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -							SIGNATION DIAGRAM	F.A.	SECTION	COUNTY	TOTAL SHEET
D160X24-sht-ts_TS4080.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM				RTE.	2013-052TS	СООК	SHEETS NO. 87 52	
	PLOT SCALE = 40.0000 ' / 10.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	154TH ST. AT CHICAGO RD./SOUTH PARK AVE.					2013 03210		CT NO. 60X24		
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEE	TS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	



TS #4080 DOLTON



CHECKED CHECKED NAME

300K PLAN Note Bi No.\_\_\_\_

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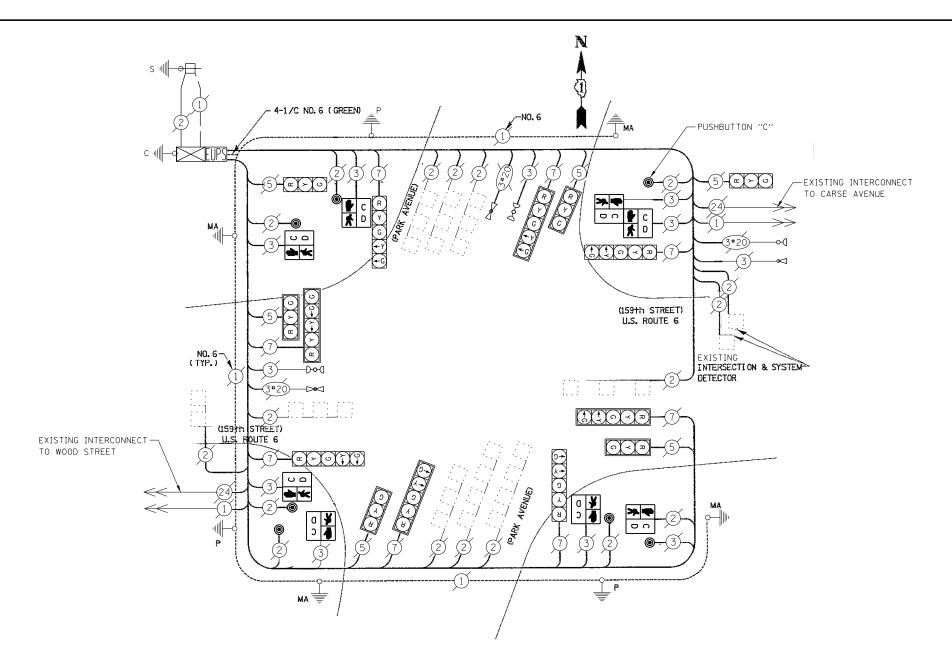
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**n** f

CHRISTOPHER 9575 West Higgins Road, Si Rosemont, Illinois 60018 (847), 973 670

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NOTE NO.



### NOTE:

PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

## REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

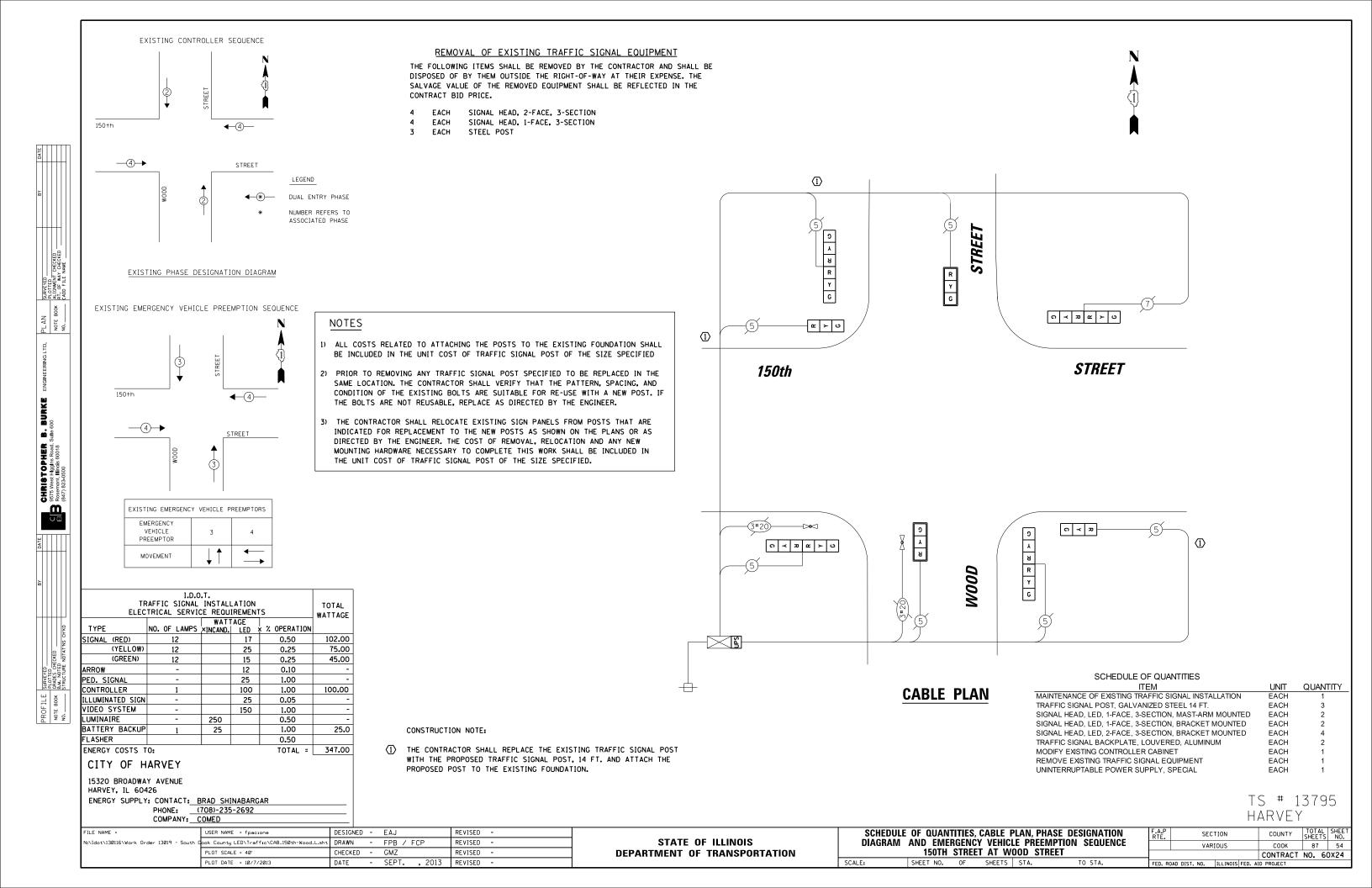
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

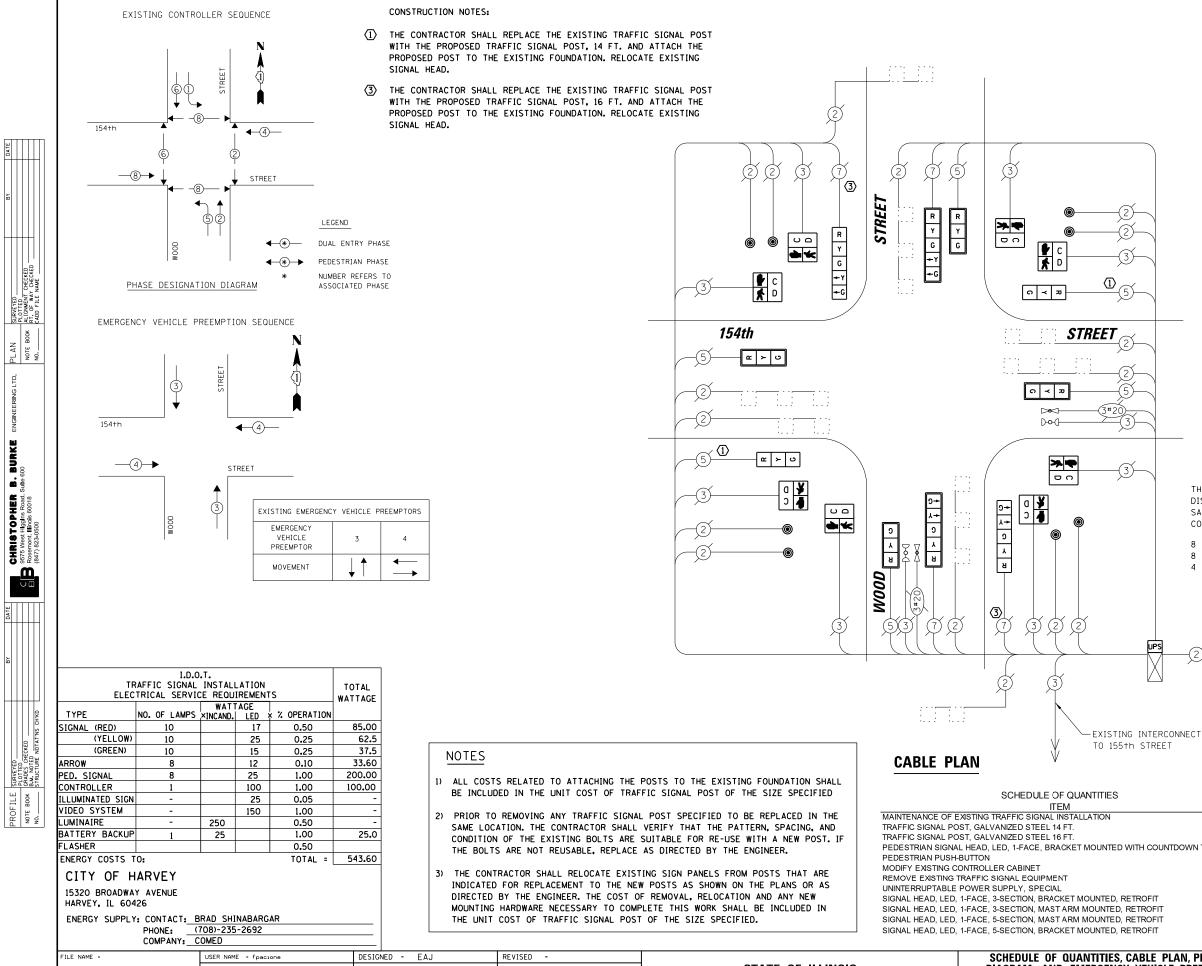
- PEDESTRIAN SIGNAL HEAD, 2-FACE EACH 1
- PEDESTRIAN SIGNAL HEAD, 1-FACE EACH 6 7
- EACH PEDESTRIAN PUSH-BUTTON

PHONE: ( COMPANY: (	708)-235-2692 :OMED					Н	IARVEY
FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.P SECTION	COUNTY TOTAL SHEET
N:\Idot\130116\Work Order 13019 - South	ook County LED\Traffic\CAB_US6 159th-Park a	aveDaRAAWN - FPB ∕ FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	VARIOUS	СООК 87 53
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	US RTE 6 /159th AT PARK AVENUE		CONTRACT NO. 60X24
	PLOT DATE = 10/7/2013	DATE - SEPT. , 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED.	AID PROJECT

SCHEDULE OF QUANTITIES		
ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	7

TS # 11750





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FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -							E DESIGNATION	F.A.P RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
N:\Idot\130116\Work Order 13019 - South C	ook County LED\Traffic\CAB_154th-Wood_L.sht	DRAWN - FPB ∕ FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM					TION SEQUENCE		VARIOUS	соок	87 55
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	154TH STREET AT WOOD STREET				CONTRACT	NO. 60X24				
	PLOT DATE = 10/7/2013	DATE - SEPT. , 2013	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD D	IST. NO. ILLINOIS FED. A	ID PROJECT	



# RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

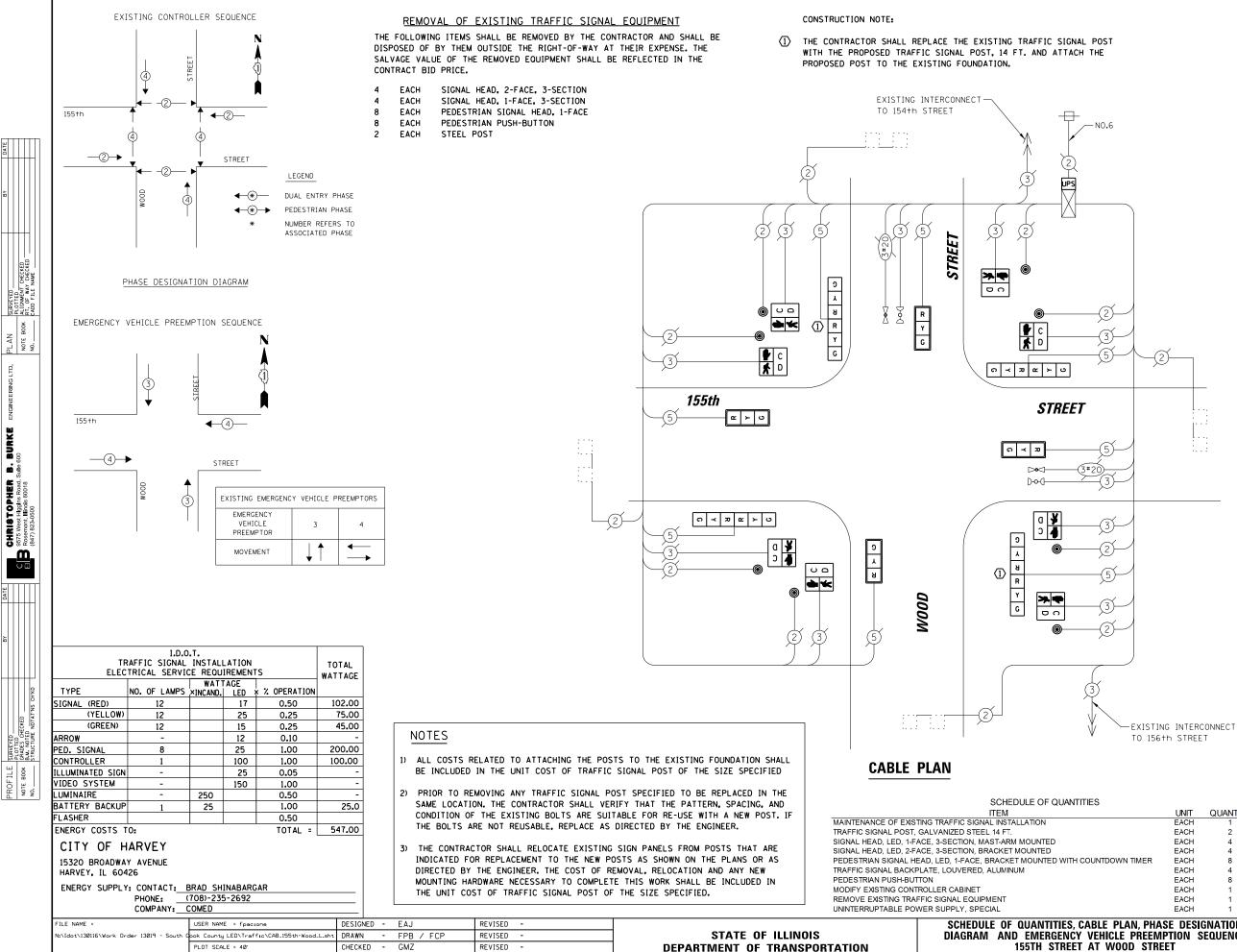
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8	EACH	PEDESTRIAN	SIGNAL	HEAD,	1-FACE
8	EACH	PEDESTRIAN	PUSH-BI	JTTON	

EACH STEEL POST 4

	UNIT	QUANTITY
	EACH	1
	EACH	2
	EACH	2
JNTDOWN TIMER	EACH	8
	EACH	8
	EACH	1
	EACH	1
	EACH	1
	EACH	2
Т	EACH	4
Г	EACH	2
	EACH	2

ΤS	#	13800
HAF	R V E	ΞY



SEPT.

REVISED

2013

DATE

PLOT DATE = 10/7/2013

	UNIT	QUANTITY					
	EACH	1					
	EACH	2					
	EACH	4					
	EACH	4					
DOWN TIMER	EACH	8					
	EACH	4					
	EACH	8			тс # ́	1380	
	EACH	1			13 ".	100	75
	EACH	1			HARVE`	$\checkmark$	
	EACH	1				1	
PLAN, PHASE DESIGNATION				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CLE PREEMPTION SEQUENCE			VARIOUS	СООК	87	56
WOOD STRE	ET				CONTRACT	NO. 60	0X24

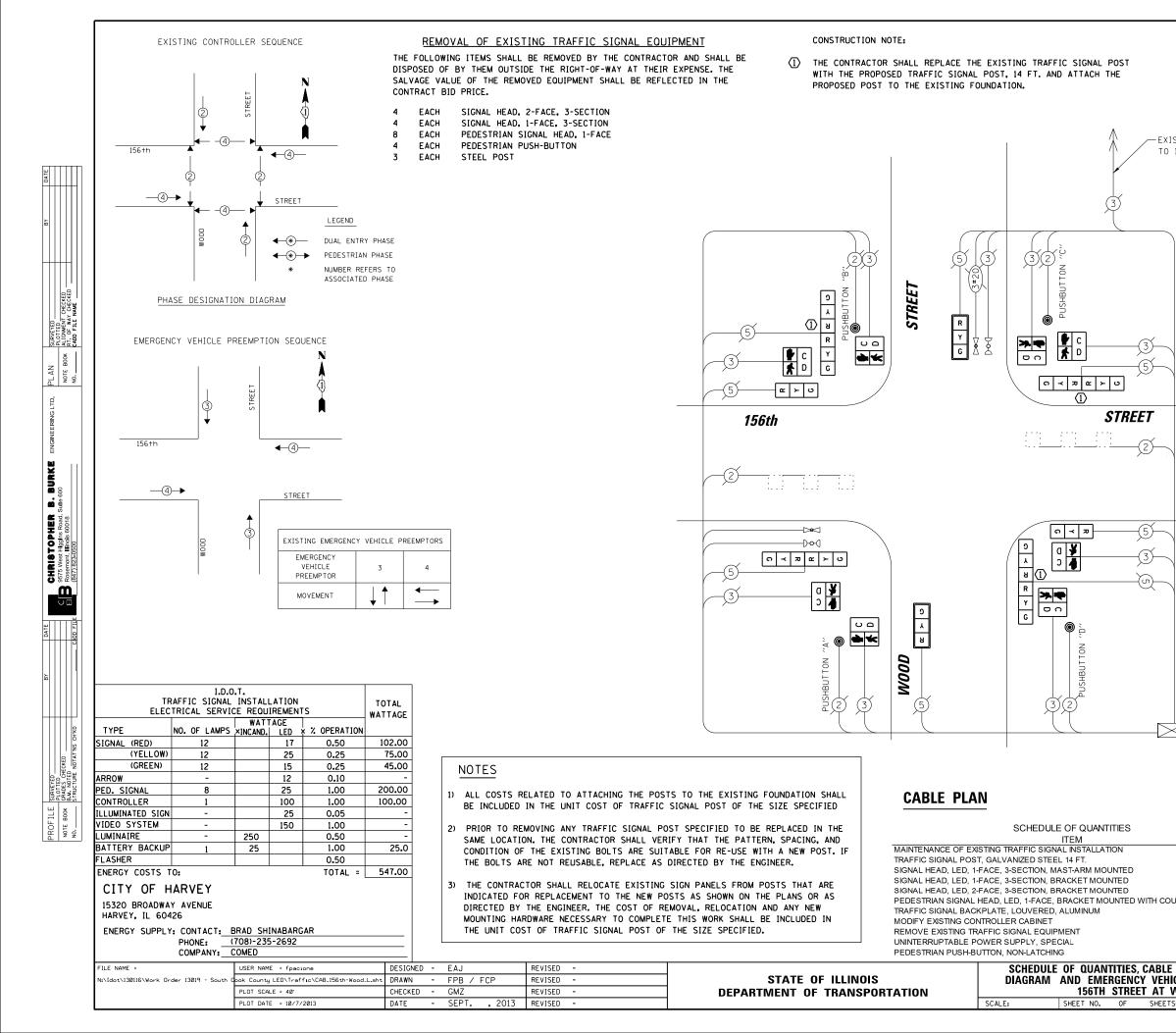
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TO STA.

SCALE:

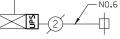
SHEET NO. OF

SHEETS STA.



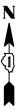
S	STA. TO	STA.		FED. RO	AD DIST. NO.	ILLINOIS	FED. A	ID PROJECT		
WOOD STREET								CONTRACT	NO.	60X24
ICLE PREEMPTION SEQUENCE				VARIOUS			СООК	87	57	
PLAN, PHASE DESIGNATION				F.A.P RTE.	SEC	TION		COUNTY	SHEET	
	EA	CH	4					HARV	Έľ	
	EA	CH	1							010
	EA	CH	1					T⊆#	13	810
	EA	CH	1							

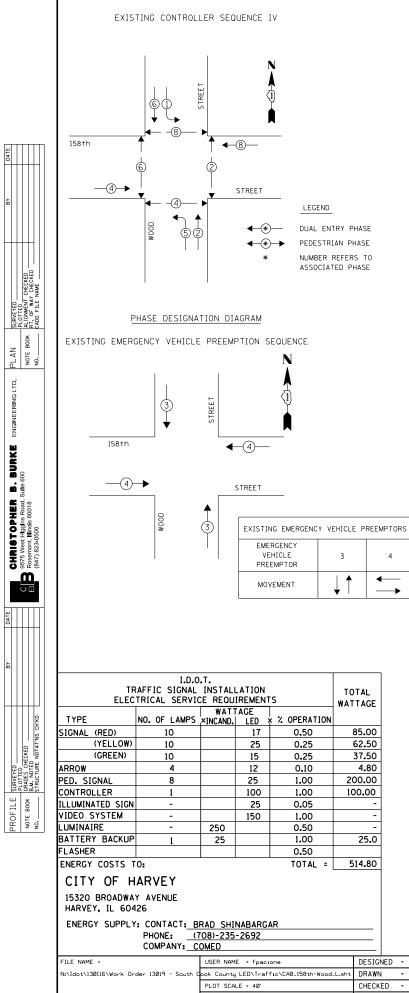
	UNIT	QUANTITY
	EACH	1
	EACH	3
	EACH	2
	EACH	2
	EACH	4
UNTDOWN TIMER	EACH	8
	EACH	2
	EACH	1
	EACH	1
	EACH	1

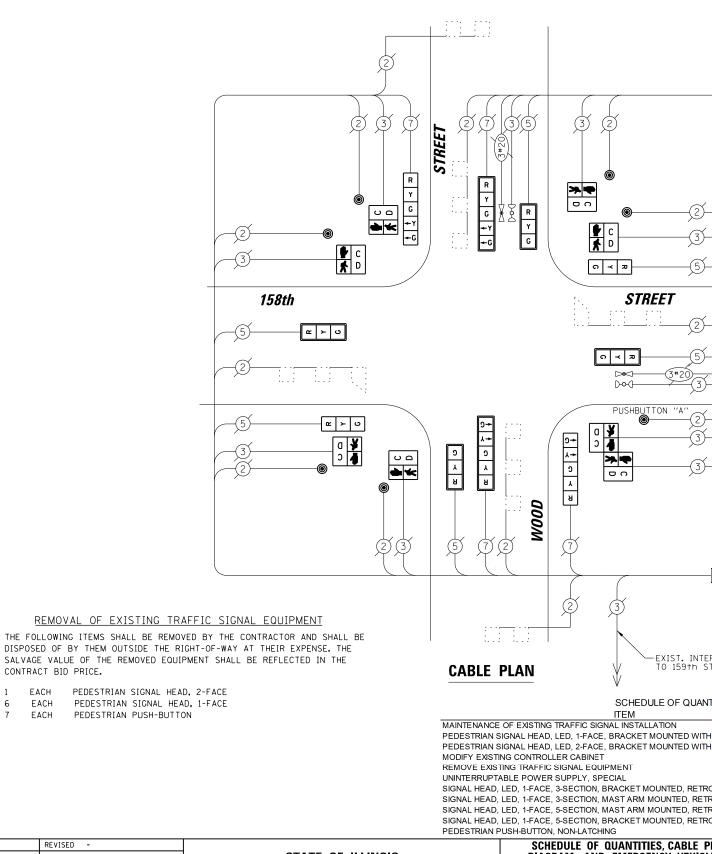


NOTE: PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4. PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6. PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8. PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

-EXIST. INTERCONNECT TO 155th STREET







FILE NAME =		USER NAME = fpacione	DESIGNED	- EAJ		REVISED	-		SCHEDULE	OF QUAN	TITIES,	CABLE
N:\[dot\]30]]6\Wo	Vork Order 13019 - South O	ook County LED\Traffic\CAB_158th-Wood_L.sht	DRAWN	- FPB .	/ FCP	REVISED	-	STATE OF ILLINOIS	DIAGRAM	AND EME	EMERGENCY VEH	
		PLOT SCALE = 40'	CHECKED	- GMZ		REVISED	-	DEPARTMENT OF TRANSPORTATION		158TH	STREE	et at w
		PLOT DATE = 10/7/2013	DATE	- SEPT.	, 2013	REVISED	-		SCALE:	SHEET NO.	OF	SHEETS

CONTRACT BID PRICE.

EACH

EACH

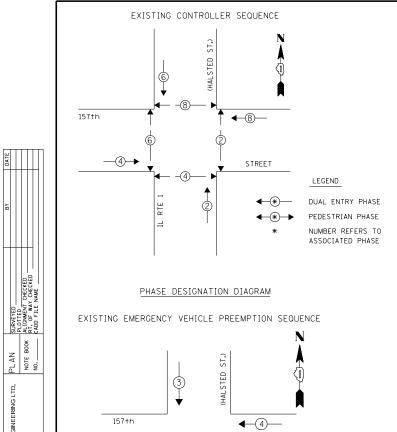
EACH

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2 3 5 			_ EXISTIN 5 TO L.E.D	
2 5 3				
2)	LOTE: PUSHBUTTON "	A'' SHALL P	LACE A CALL I	N PHASES 2 AND 4.
	ф			
NTERCONNECT				
ANTITIES	EACH EACH EACH EACH	JANTITY 1 6 1 1		
ETROFIT RETROFIT RETROFIT ETROFIT	EACH EACH EACH EACH EACH EACH EACH	1 1 2 4 2 2 7		TS # 13815 HARVEY
E PLAN, PHASE DESIGN ICLE PREEMPTION SEC WOOD STREET 'S   STA. TO ST	DUENCE	F.A.P RTE. FED. ROAD DIST	SECTION VARIOUS . NO. ILLINOIS FED	COUNTY TOTAL SHEETS NO. SHEETS NO. COOK 87 58 CONTRACT NO. 60X24 . AID PROJECT



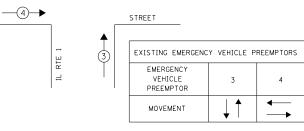
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CHRISTOPHER I 9575 West Higgins Road, Su B Rosemont, Illinois 60018 (847) 832-AFAIA

PROFILE SURVEYED PLOTTED PLOTTED NOTE BOOK CRADES CHECKED NO. BAM. NOTED AM. NOTED NO. STRUCTURE NOTAT'



TR ELEC	TOTAL WATTAGE					
TYPE		WAT	AGE			
TYPE	NO. OF LAMPS	<u>×INCAND.</u>	LED >	< % OPERATION		
SIGNAL (RED)	12		17	0.50	102.00	
(YELLOW)	12		25	0.25	75.00	
(GREEN)	12		15	0.25	45.00	
ARROW	-		12	0.10	-	
PED. SIGNAL	8		25	1.00	200.00	
CONTROLLER	1		100	1.00	100.00	
ILLUMINATED SIGN	-		25	0.05	-	
VIDEO SYSTEM	-		150	1.00	-	
LUMINAIRE	-	250		0.50	-	
BATTERY BACKUP	1	25		1.00	25.0	
FLASHER				0.50		
ENERGY COSTS T	0:			TOTAL =	524.00	
ILLINOIS DEPARTMENT OF TRANSPORTATION						
DIVISION OF HIGHWAY/DISTRICT 1 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096						
ENERGY SUPPLY	: CONTACT: BI	RAD SHI	NABARG	AR		

	5 œ > • 2 157th STREET		
NCY VEHICLE PREEMPTORS 3 4 ↓ ↑ ↓ ↓ TOTAL WATTAGE 10N 102.00 75.00 45.00 - 200.00 100,00	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT         2       3         2       3         3       5         5       5         7       5         7       5         8       EACH         9       EACH          9       EACH		D A B C C C C C C C C C C C C C
		SCHEDULE OF QUANTITIES	UNIT

UPS

-NO. 6

PUSHBUTTON

"B

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UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT PEDESTRIAN PUSH-BUTTON, NON-LATCHING

ENERGY SUPPLY: CONTACT: E PHONE: ( COMPANY: (	708)-235-2692			PEDESTRIAN POSH-BUTTON, NON-LATCHI	IG EACH 4		TS# 1810 HARVEY
FILE NAME =	USER NAME = fpacione DESIG	NED - EAJ	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.P SECTION	COUNTY TOTAL SHEET
N:\Idot\130116\Work Order 13019 - South	Dook County LED\Traffic\CAB_Halsted-157th.sht DRAWN	- FPB / FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	VARIOUS	COOK 87 59
	PLOT SCALE = 40' CHECK	ed - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 1 (HALSTED ST.) AT 157th STREET		CONTRACT NO. 60X24
	PLOT DATE = 10/7/2013 DATE	- SEPT. , 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED	AID PROJECT

QUANTITY EACH EACH EACH EACH EACH EACH EACH EACH

NTERCONNECT TREET

CABLE

NOTE:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 4 AND 6. PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 6 AND 8. PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 2 AND 8. PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 4.

RETROF	[T A	LL	ЕХI	STING
SIGNAL	HEA	DS	ΤO	L.E.D.



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- EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

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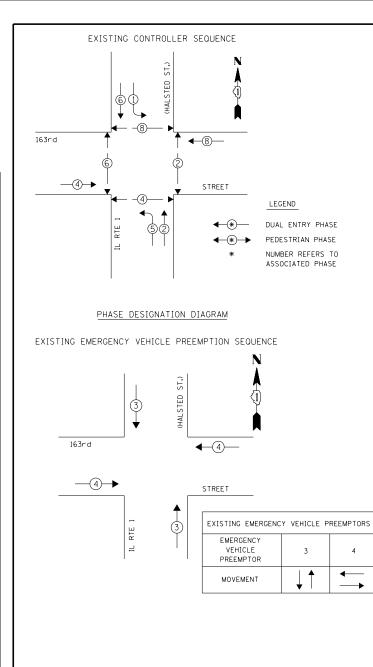
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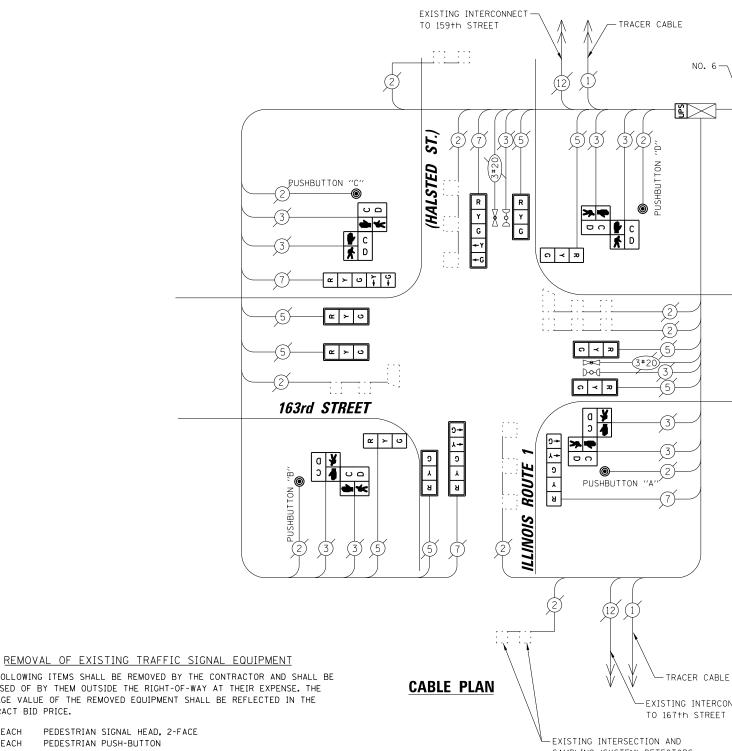
**n** <del>g</del>

CHRISTOPHER | 9575 West Higgins Roots (847) 872 Intern

PLOTTED GRADES CHECKED B.M. NOTED STRUCTURE NOTA

PROFILE NOTE BOOK NO.\_\_\_\_

TR ELEC	TOTAL WATTAGE						
TYPE	NO. OF LAMPS	WAT1	TAGE LED >	× % OPERATION			
IGNAL (RED)	12		17	0.50	102.00		
(YELLOW)	12		25	0.25	75.00		
(GREEN)	12		15	0.25	45.00		
RROW	8		12	0.10	9.60		
ED. SIGNAL	8		25	1.00	200.00		
ONTROLLER	1		100	1.00	100.00		
LLUMINATED SIGN	-		25	0.05	-		
IDEO SYSTEM	-		150	1.00	-		
UMINAIRE	-	250		0.50	-		
SATTERY BACKUP	1	25		1.00	25.0		
LASHER				0.50			
ENERGY COSTS T	0:			TOTAL =	556.60		
ILLINOIS DEPARTMENT OF TRANSPORTATION							
DIVISION OF HIGHWAY/DISTRICT 1 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096							
ENERGY SUPPLY: CONTACT: BRAD SHINABARGAR PHONE: (708)-235-2692 COMPANY: COMPL							



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 PEDESTRIAN SIGNAL HEAD, 2-FACE

4 EACH PEDESTRIAN PUSH-BUTTON

SAMPLING (SYSTEM) DETECTORS

SCHEDULE OF QUANTITIES	5
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ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN T MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT PEDESTRIAN PUSH-BUTTON, NON-LATCHING

	COMPANY: C	OMED						
ſ	FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.P SECTION	COUNTY TOTAL SHEET
	N:\[dot\]30116\Work Order 13019 - South C	ook County LED\Traffic\CAB_Halsted-163rd.sht	DRAWN - FPB∕F	CP REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	VARIOUS	СООК 87 60
		PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 1 (HALSTED ST.) AT 163rd STREET		CONTRACT NO. 60X24
		PLOT DATE = 10/7/2013	date - SEPT.	, 2013 REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED.	D. AID PROJECT

	DHVCE	DESIGNATION	F.A.P	SECTION	COUNTY TOTAL SHEE
	EACH	4			HARVFY
	EACH	2			TS # 1815
	EACH	2			TS # 1815
	EACH	6			
	EACH	2			
	EACH	1			
	EACH	1			
	EACH	1			
TIMER	EACH	4			
	EACH	1			
	UNIT (	QUANTITY			

RETROFIT ALL EXISTING

SIGNAL HEADS TO L.E.D.

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4. PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.

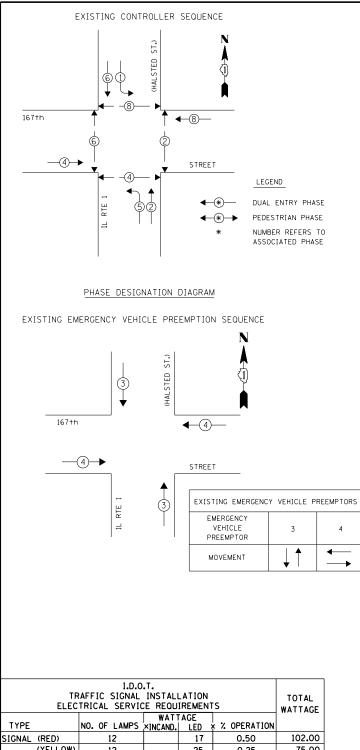
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

-EXISTING INTERCONNECT TO 167th STREET

NOTE:

NO. 6



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SURVEYED PLOTTED ALIGNMENT ( RT. OF WAY

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CHRISTOPHER 9575 West Higgins Road, Si Rosemont, Illinois 60018 (847) 872-0570

SURVEYED PLOTTED GRADES CHECKED B.M. NOTED STRUCTURE NOTAT

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PROF

SIGNAL (RED)	12		17	0.50	102.00		
(YELLOW)	12		25	0.25	75.00		
(GREEN)	12		15	0.25	45.00		
ARROW	8		12	0.10	9.60		
PED. SIGNAL	8		25	1.00	200.00		
CONTROLLER	1		100	1.00	100.00		
ILLUMINATED SIGN	-		25	0.05	-		
VIDEO SYSTEM	-		150	1.00	-		
LUMINAIRE	-	-		0.50	-		
BATTERY BACKUP	1	25		1.00	25.0		
FLASHER				0.50			
ENERGY COSTS TO: TOTAL = 556.60							
ILLINOIS DEPARTMENT OF TRANSPORTATION							

DIVISION OF HIGHWAY/DISTRICT 1

201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096 ENERGY SUPPLY: CONTACT: BRAD SHINABARGAR

NE:	(708)-235-2692

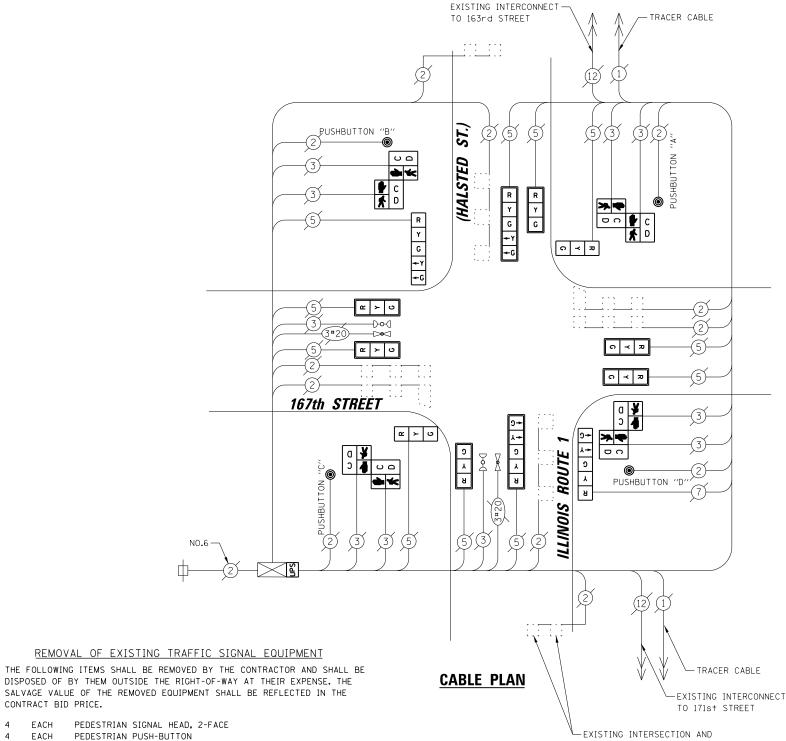
PHONE: (7 COMPANY: C	708)-235-2692 OMED	<u> </u>			
FILE NAME =	USER NAME = fpacione	DESIGNED - EAJ	REVISED -		SCHEDULE OF QUANTITIES, CABLE PL
N:\Idot\130116\Work Order 13019 - South C	ook County LED\Traffic\CAB_Halsted-167th.sht	DRAWN - FPB / FCP	REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE
	PLOT SCALE = 40'	CHECKED - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 1 (HALSTED ST
	PLOT DATE = 10/7/2013	DATE - SEPT 2013	REVISED -		SCALE: SHEET NO. OF SHEETS

CONTRACT BID PRICE.

4 EACH

EACH

4



- EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

# SCHEDULE OF QUANTITIES

ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COU MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFI SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFI SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT PEDESTRIAN PUSH-BUTTON, NON-LATCHING

							TIAN		
	LAN, PHASE DESIGNATION	F.A.P RTE		SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
_	E PREEMPTION SEQUENCE			VAR	IOUS		СООК	87	61
	ST.) AT 167th STREET						CONTRACT	NO. 6	0X24
5	STA. TO STA.	FED. RO	OAD DIST.	NO.	ILLINOIS	FED. A	ID PROJECT		

	UNIT	QUANTITY
	EACH	1
OUNTDOWN TIMER	EACH	4
	EACH	1
	EACH	1
	EACH	1
Т	EACH	2
TIT	EACH	6
TIT	EACH	2
Т	EACH	2
	EACH	4

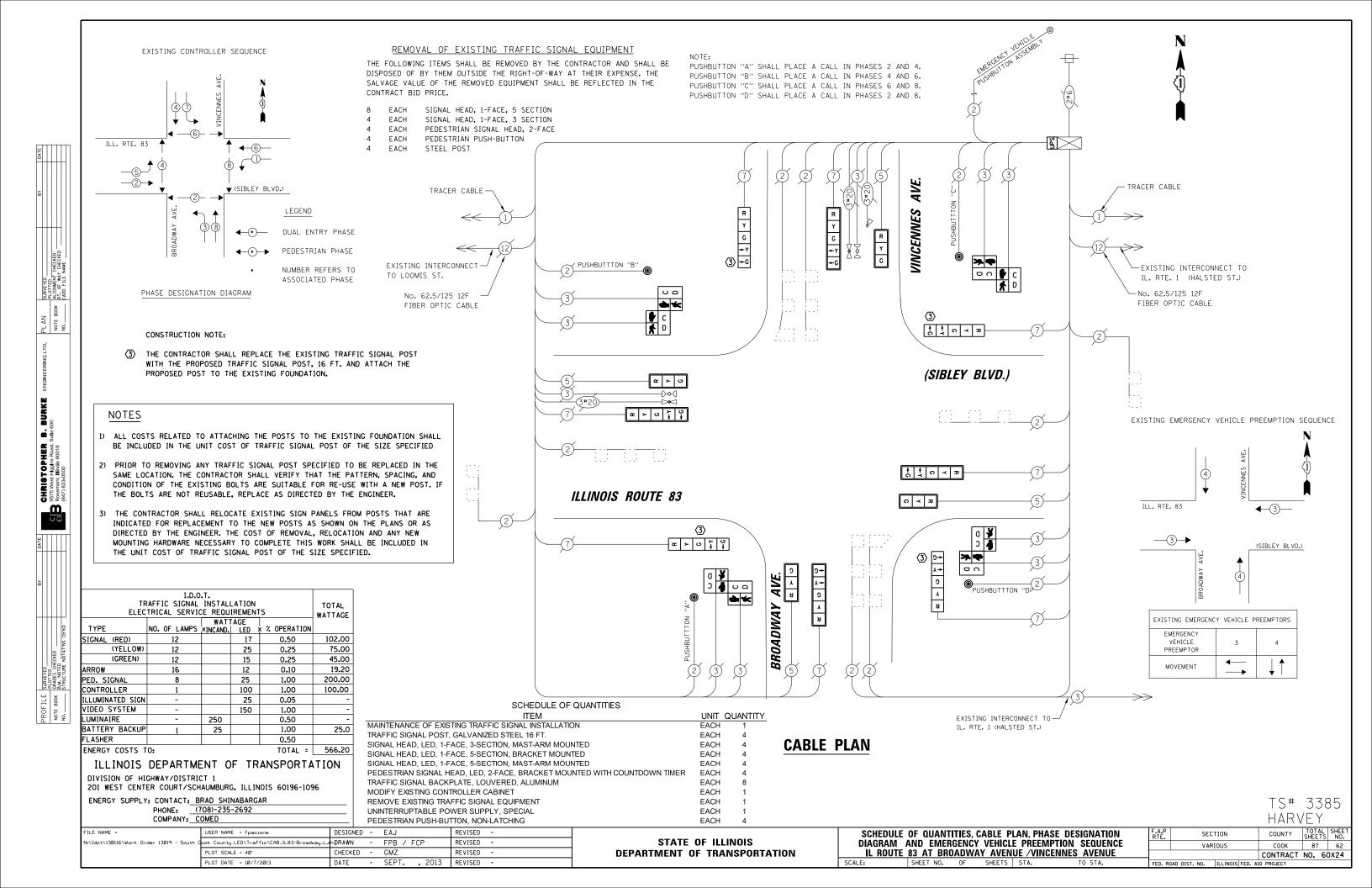
NOTE:

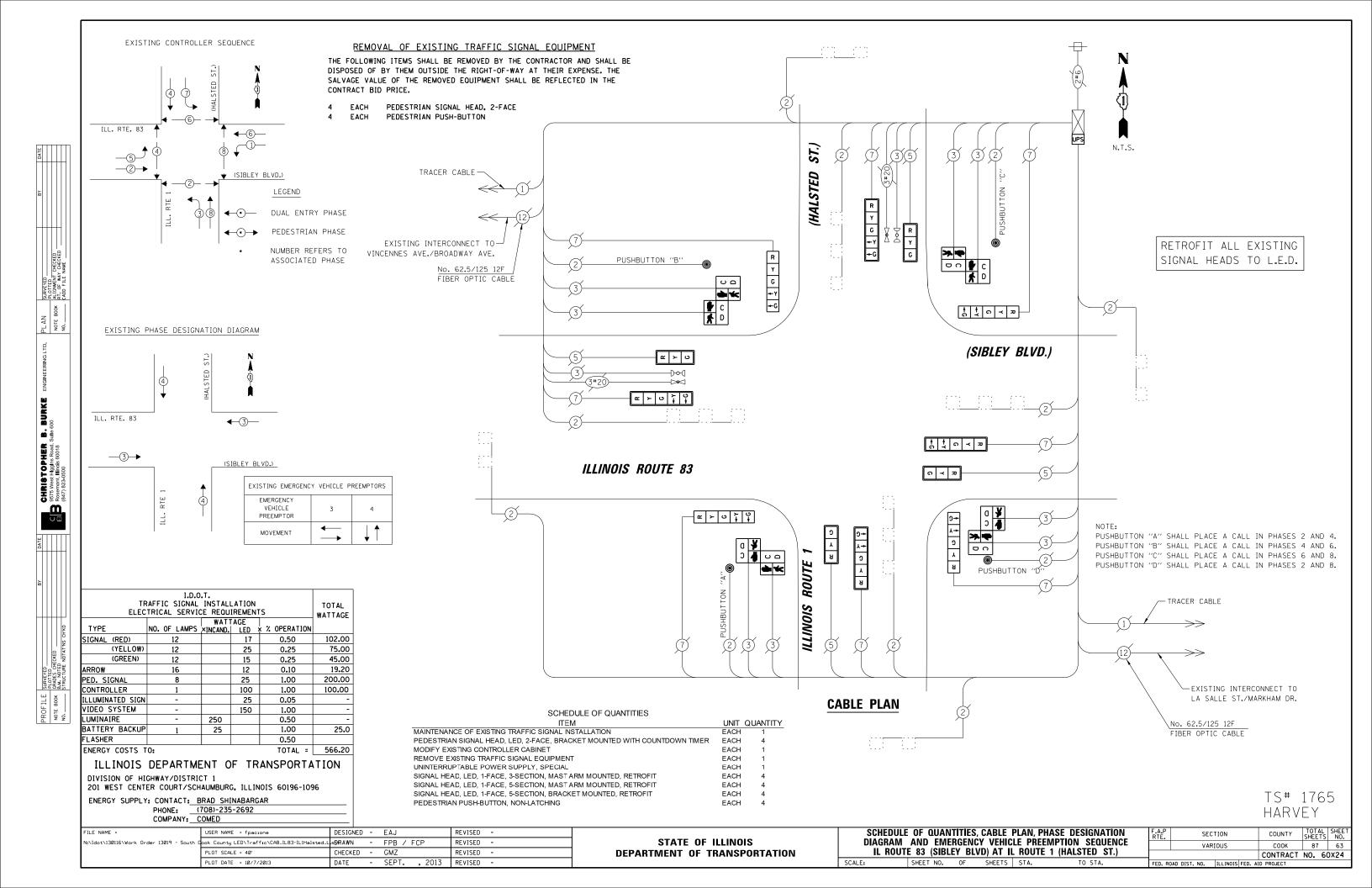
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 8. PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 6 AND 8. PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 4 AND 6. PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 4.

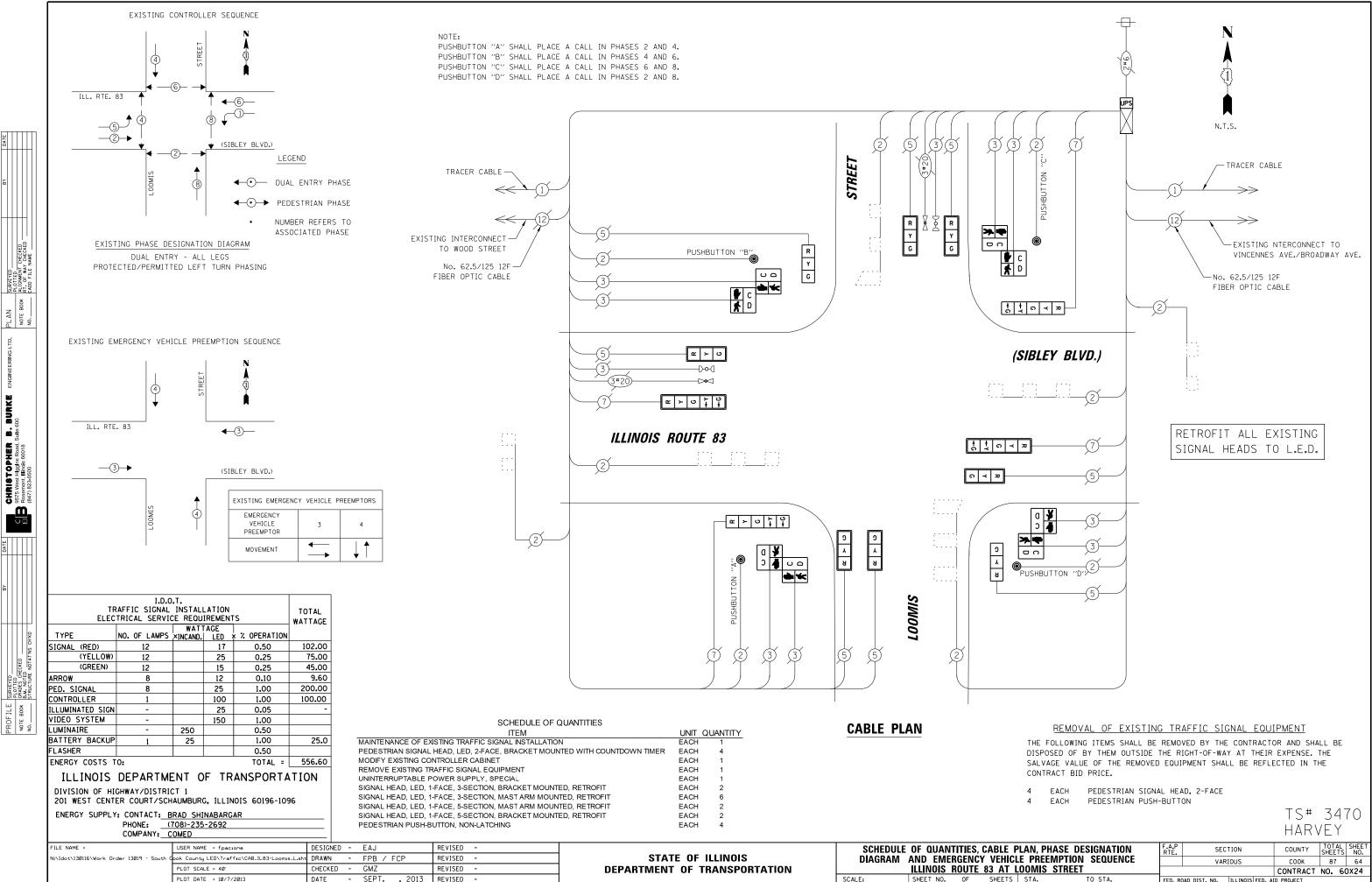
RETROF	IT ALL	EXISTING
SIGNAL	HEADS	TO L.E.D.



TS# 1820 HARVEY



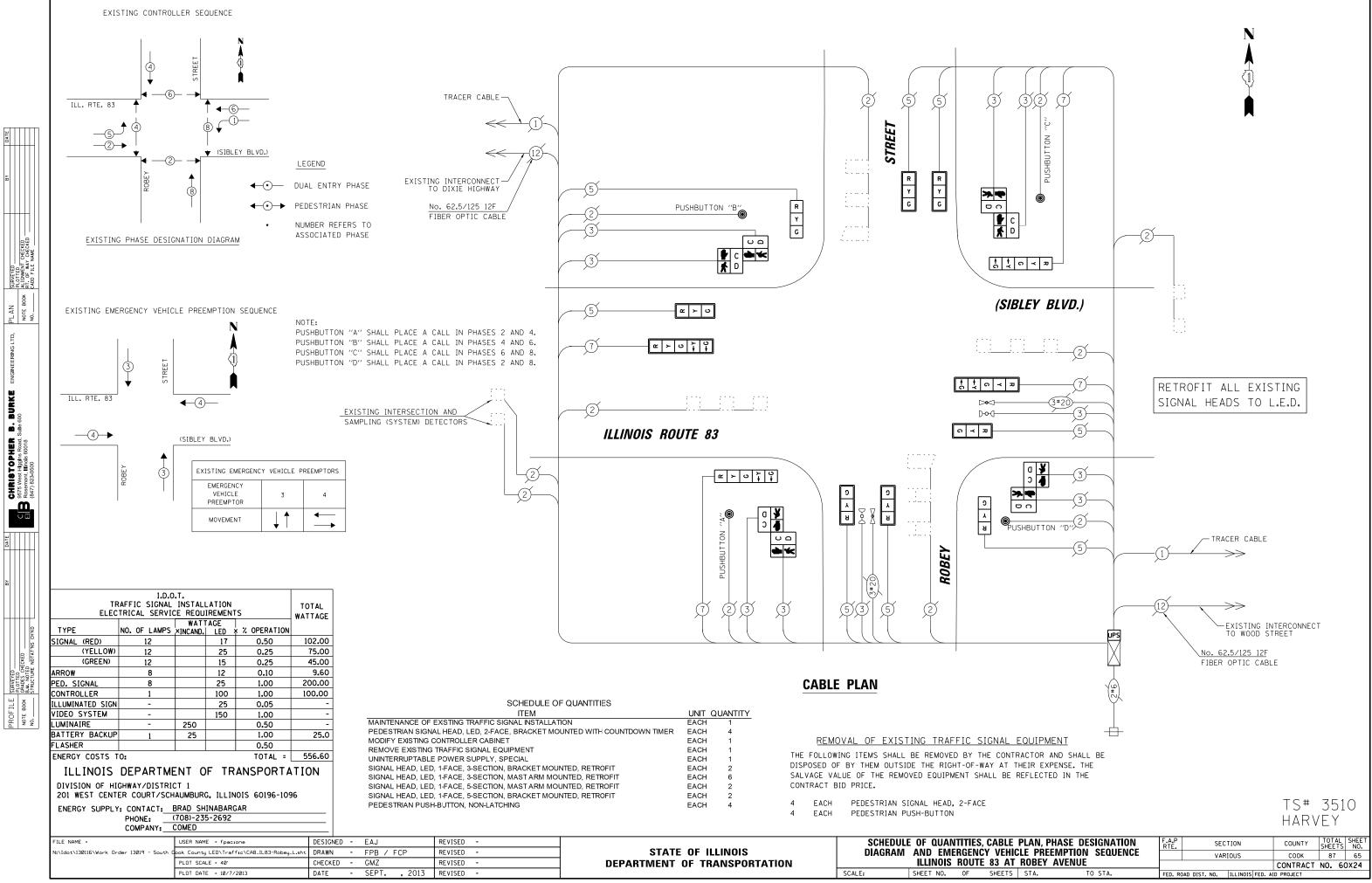


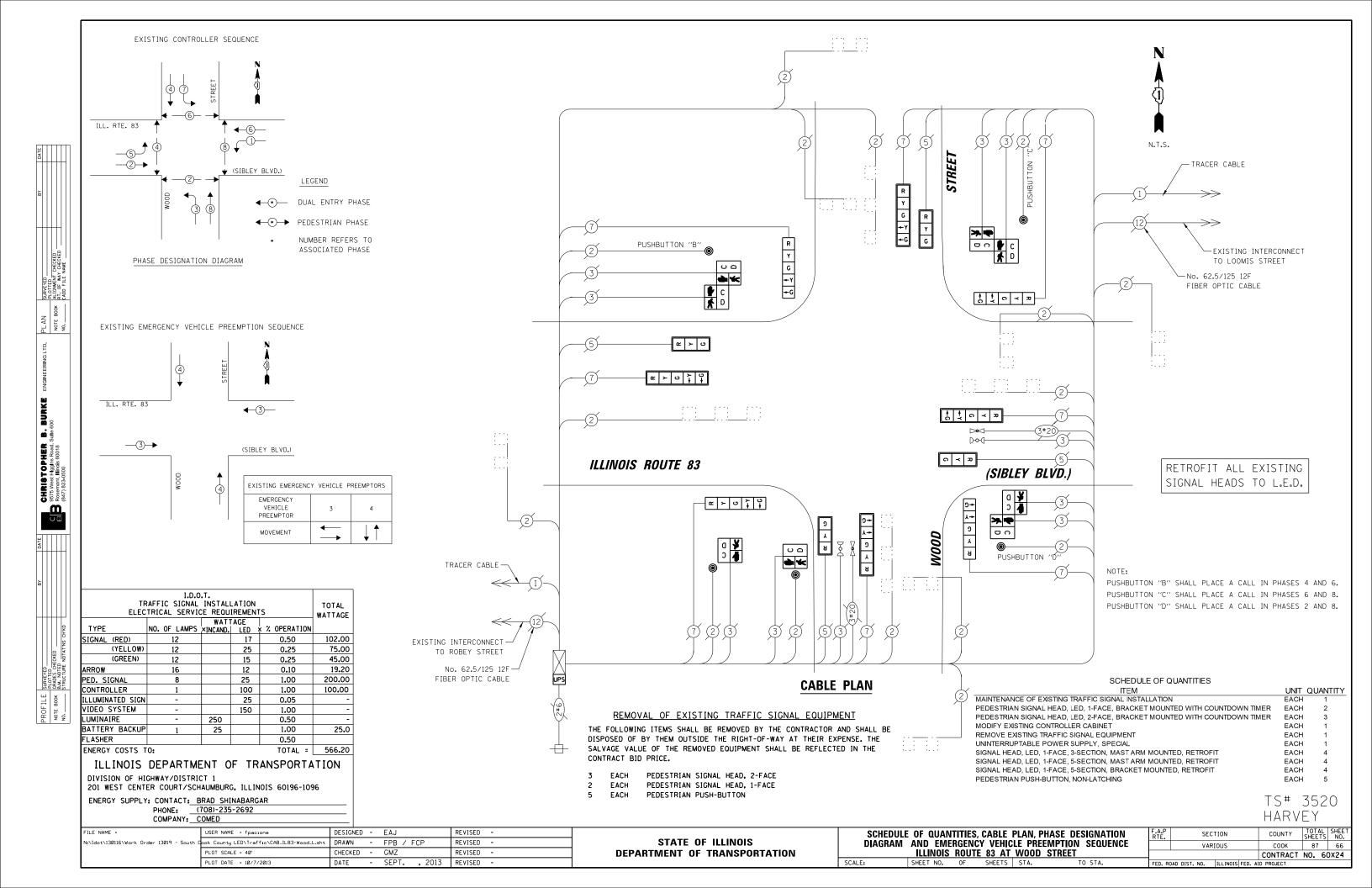


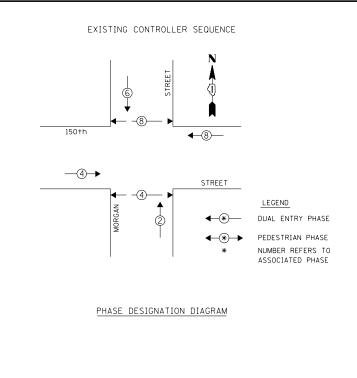
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	LAN, PHASE DI		F.A. RTE	P		SEC	TION	COUNTY	TOTA		
	CLE PREEMPTION SEQUENCE					VAR	10US		СООК	87	64
L	<u>OOMIS STREET.</u>							CONTRACT	NO.	60X24	
5	STA.	TO STA.	FED.	ROAD	DIST.	NO.	ILLINOIS	FED. A	ID PROJECT		







NOTES

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**XIGTOPHER** West Higgins Road, S mont, Illinois 60018

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PROF NOTE NO.

- 1) ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED
- 2) PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION. THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT REUSABLE, REPLACE AS DIRECTED BY THE ENGINEER.
- 3) THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT ARE INDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

TF	TOTAL									
ELEC	TRICAL SERVIC			S	WATTAGE					
TYPE	NO. OF LAMPS	WATI XINCAND.	TAGE	< % OPERATION						
SIGNAL (RED)	12		17	0.50	102.00					
(YELLOW)	12		25	0.25	75.00					
(GREEN)	12		15	0.25	45.00					
ARROW	-		12	0.10	-					
PED. SIGNAL	8		25	1.00	200.00					
CONTROLLER 1 100 1.00										
ILLUMINATED SIGN	-		25	0.05	-					
VIDEO SYSTEM	-		150	1.00	-					
LUMINAIRE	-	250		0.50	-					
BATTERY BACKUP	1	25		1.00	25.0					
FLASHER	-			0.50	-					
ENERGY COSTS T	0:			TOTAL =	547.00					
CITY OF	HARVEY									
15320 BROADW HARVEY, IL 60										
ENERGY SUPPLY	CONTACT: B	RAD SH	NABARG	AR						

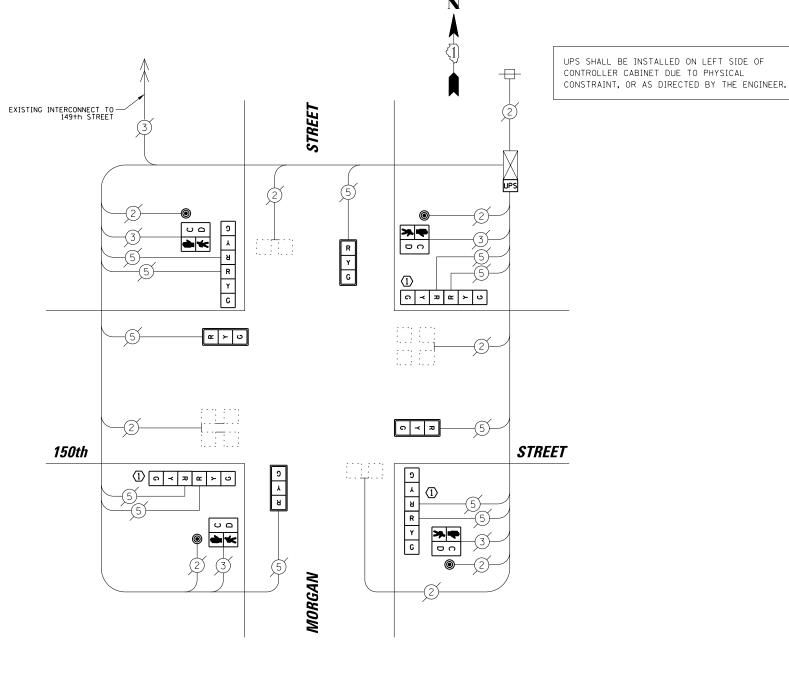
### CONSTRUCTION NOTE:

THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE  $\langle 1 \rangle$ PROPOSED POST TO THE EXISTING FOUNDATION.

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

- SIGNAL HEAD, 2-FACE, 3-SECTION 4 FACH
- SIGNAL HEAD, 1-FACE, 3-SECTION 4 EACH
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN PUSH-BUTTON 4
- EACH 3
  - EACH STEEL POST



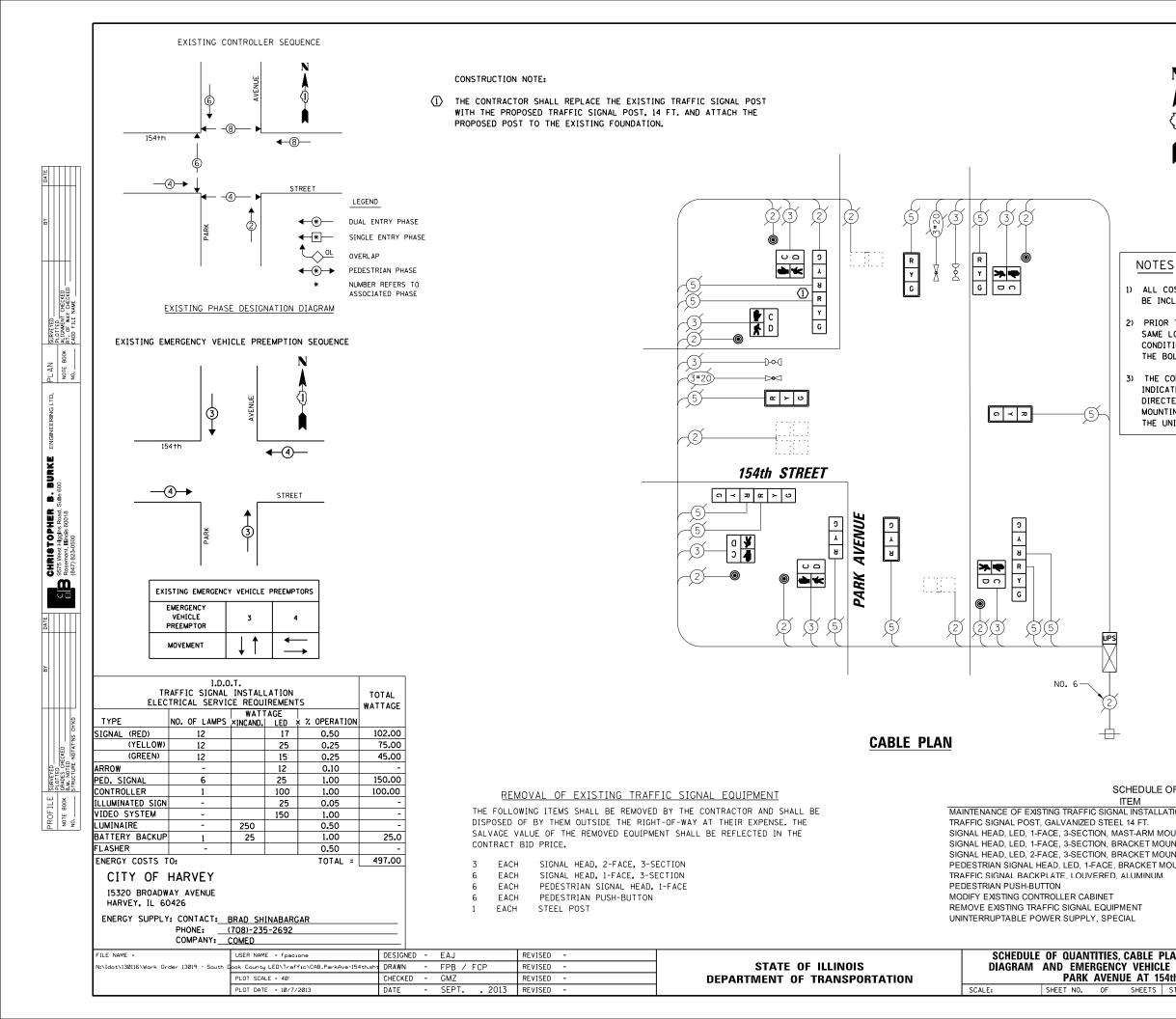
**CABLE PLAN** 

### SCHEDULE ITEM

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTAL TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET M PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM PEDESTRIAN PUSH-BUTTON

NE Number 1 30019 - South       Open Number 1 statution       Designed - Least       Net Nigen - Schedule       Open Number 1 and the statution       Net Nigen - Schedule       Schedule       County Leb Vision       Net Nigen - Schedule       County Leb Vision       Net Nigen - Schedule       Schedule       Schedule       Schedule       Schedule       Net Nigen - Schedule       Net Nigen - Schedule       Schedule		BRAD SHINABARGAR 708)-235-2692 COMED			REM	FY EXISTING CONTROLLER CABINET DVE EXISTING TRAFFIC SIGNAL EQUIPMENT TERRUPTABLE POWER SUPPLY, SPECIAL	EACH EACH EACH	1 1 1	TS # 13835 HARVEY
PLOT SCALE = 40' CHECKED - GMZ REVISED - DEPARTMENT OF TRANSPORTATION MORGAN STREET AT 150TH STREET CONTRACT NO. 60X	FILE NAME =	USER NAME = fpacione DESIG	GNED - EAJ	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION	F.A.P	SECTION	COUNTY TOTAL SHEET		
PLOT SCALE = 40' CHECKED - GMZ REVISED - DEPARTMENT OF TRANSPORTATION MORGAN STREET AT 150TH STREET CONTRACT NO. 60X	N:\[dot\]30116\Work Order 13019 - South (	h Gook County LED\Traffic\CAB_Morgan-150th_ListtDRAWN - FPB / FCP		REVISED -	STATE OF ILLINOIS	DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		VARIOUS	СООК 87 67
PLOT DATE = 10/7/2013 DATE - SEPT. 2013 REVISED - SCALE: SHEET NO. OF SHEETS STA. TO STA. FOR DATA DIST. NO. ILLINDISFED AND PROJECT		PLOT SCALE = 40' CHECK	ked - GMZ	REVISED -	DEPARTMENT OF TRANSPORTATION	MORGAN STREET AT 150TH STREET			
		PLOT DATE = 10/7/2013 DATE	- SEPT. , 2013	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST.	NO. ILLINOIS FED	AID PROJECT

E OF QUANTITIES		
	UNIT	QUANTITY
LLATION	EACH	1
	EACH	3
MOUNTED	EACH	4
MOUNTED	EACH	4
MOUNTED WITH COUNTDOWN TIMER	EACH	4
JM	EACH	4
	EACH	4
	EACH	1
	EACH	1
	FACH	1





1) ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED

2) PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION. THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT REUSABLE, REPLACE AS DIRECTED BY THE ENGINEER.

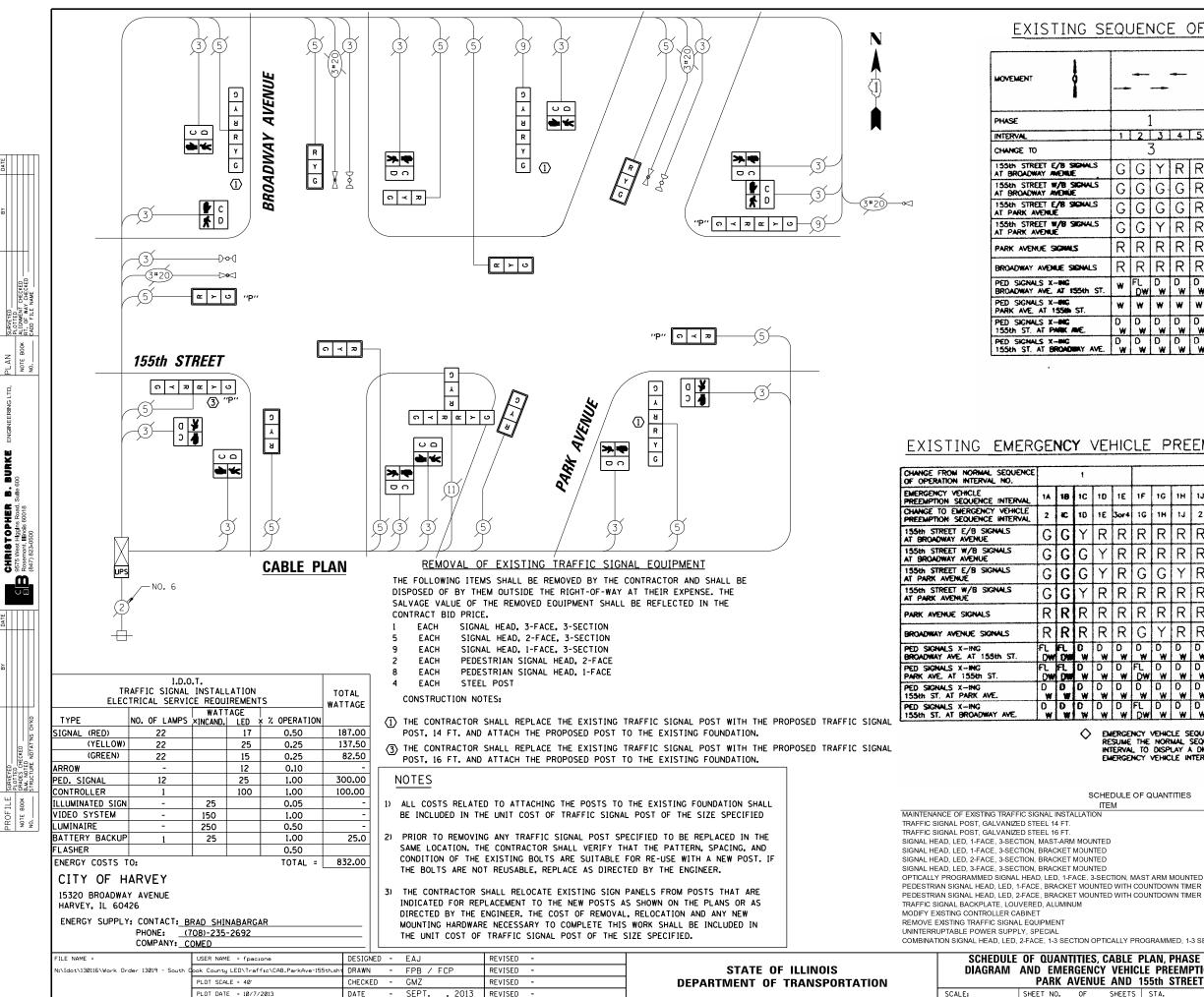
3) THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT ARE INDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

### SCHEDULE OF QUANTITIES

	UNIT	QUANTITY
LLATION	EACH	1
	EACH	1
MOUNTED	EACH	4
IOUNTED	EACH	2
IOUNTED	EACH	3
MOUNTED WITH COUNTDOWN TIMER	EACH	6
IM	EACH	4
	EACH	6
	EACH	1
	EACH	1
	EACH	1

# TS # 13820 HARVEY

		ASE DESIGNATION	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MPTION SEQUENCE		VARIOUS	СООК	87	68
1:	54th STR	EEI			CONTRACT	NO. 60	)X24
5	STA.	TO STA.	FED. RC	AD DIST. NO. ILLINOIS FED. A	D PROJECT		



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EXISTING SEQUENCE OF OPERATIONS

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	3				4	4				1			
G	Y	R	R	R	R	R	R	R	R	R	R	R	R
G	G	G	R	R	R	R	R	R	G	G	G	G	R
G	G	G	R	G	G	G	Y	R	R	R	R	R	R
G	Y	R	R	R	R	R	R	R	R	R	R	R	R
R	R	R	R	R	R	R	R	R	G	G	Y	R	R
R	R	R	R	G	G	Y	R	R	R	R	R	R	R
FL DW	D W	D W	D W	D W	D W	D W	D W	D W	w	W	W	W	D
₩	W	w	w	w	FL DW	D W	D W	D W	D W	D ₩	D W	D W	A
D ₩	D W	D W	D W	D W	0 W	D W	D W	D W	W	FL DW	D ₩	D W	R
D W	D W	DW	DW	w	FL DW	D W	D ₩	D W	D W	D W	D W	D W	к

£	EMERGENCY VEHCLE SEQUENCE																	
5 CLEAR 5 NORM SEQUE	5	4	3	E PREEMPTION SEQUENCE													LE	
$\triangleleft$	<	$\geq$	$\sim$			11			6									
4	4	3	2	1₩	10	1P	1N	11	1J	1H	16	tF	1K	1J	1Н	1G	1F	
$\boxtimes$	X	X	Х	4	2or3	10	1P	1N	4	1J	1H	1G	3	2	tJ	1H	1G	
R 🛇	R	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
G 🛇	G	R	G	G	R	Y	G	G	R	R	R	R	R	R	R	R	R	
R 🛇	R	G.	G	R	R	R	R	R	R	Y	G	G	G	R	Y	G	G	
R 🛇	R	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
G 🛇	G	R	R	G	R	R	Y	G	R	R	R	R	R	R	R	R	R	
R 🛇	R	G	R	R	R	R	R	R	R	R	Y	G	G	R	R	Y	G	
₽₩ ♦		D W	D W	FL DW	D W	D W	DW	FL DW	D W	D W	DW	D W	D W	D	D W	D W	D	
° <b>₩</b> ◇		D W	D W	D W	D W	D W	D W	D	D W	D W	DW	FL DW	FL DW	D	D W	D W	FL DW	
D_w ◇		D W	D W	FL DW	D W	D W	D W	FL DW	D W	DW	DW	DW	D W	DW	D W	DW	D	
D_w ♦		D W	D W	D W	D ₩	D W	D W	D W	D W	D W	D W	FL	FL DW	D W	D W	D W	FL DW	

EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE PROPER CLEARANCE TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, OR 4 IS TERMINATED.

TO STA.

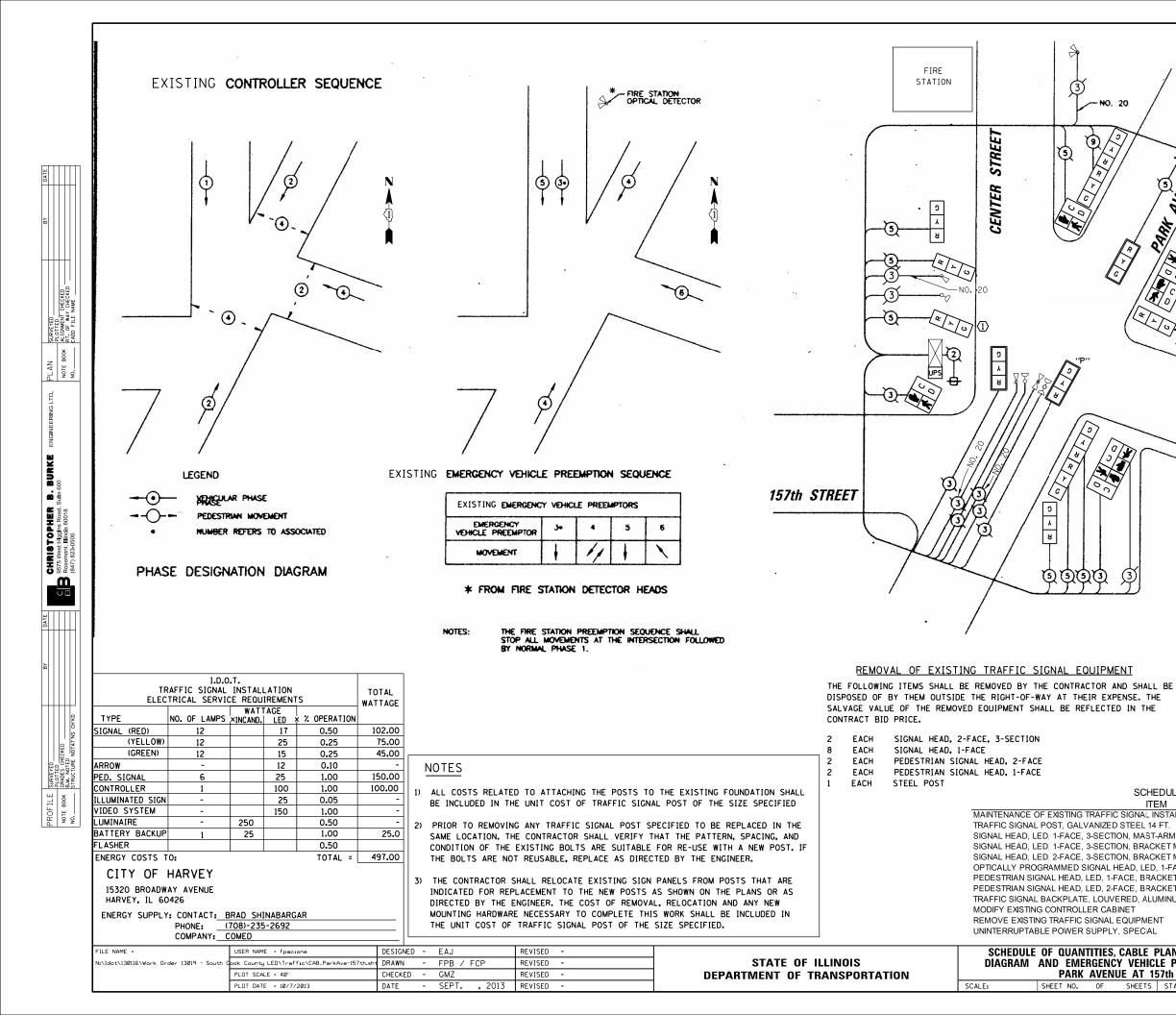
### SCHEDULE OF QUANTITIES

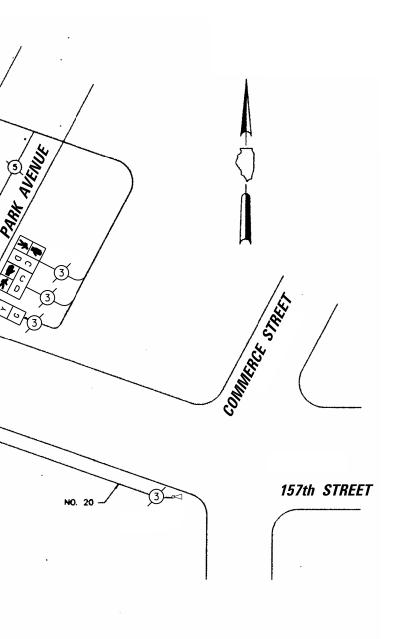
ICLE PREEMPTION SEQUENCE	RTE.		VARIOUS	СООК	SHEETS 87	N0 69
E PLAN, PHASE DESIGNATION	F.A.P		SECTION	COUNTY	TOTAL	SHEE
PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EAG	СН	2	HAR V [	<u> </u>	
	EAG		1		- \/	
	EAG		1	TS #	138	32
	EAG		1	TC #	170	$\neg \frown$
	EAG	ЭН	8			
I COUNTDOWN TIMER	EAG	СН	2			
I COUNTDOWN TIMER	EAG	ЭН	8			
MAST ARM MOUNTED	EAG	сн	2			
	EAG	н	1			
	EAG		3			
	EAG	СН	1			
	EAG		6			
	EAG		1			
	EAG		3			
	EAG		1			
	LIN	IT QUA	NTITY			

FED ROAD DIST NO

CONTRACT NO. 60X24

TULINOIS FED ATO PROJECT



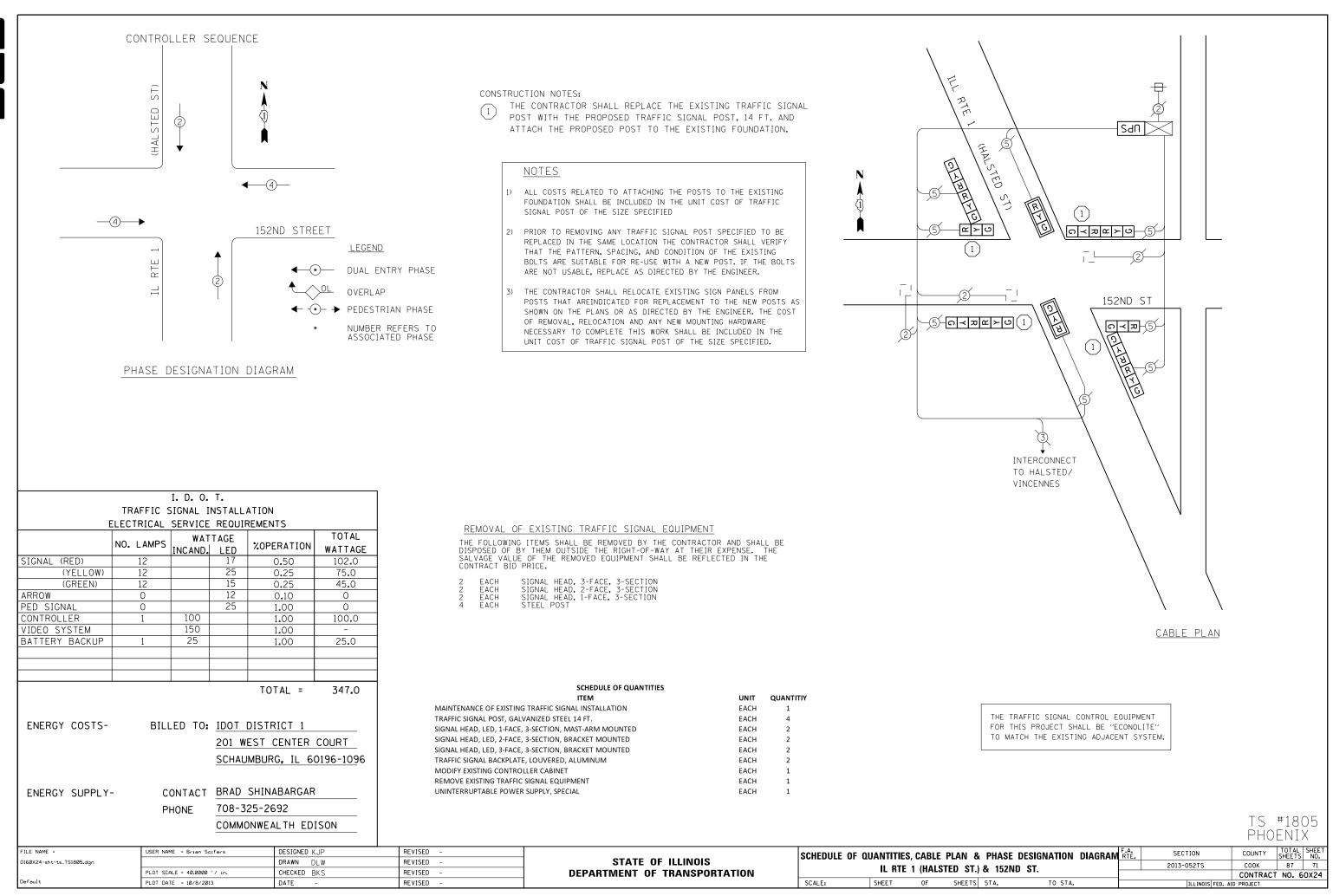


CONSTRUCTION NOTE:

THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

## SCHEDULE OF QUANTITIES

TEM		UNIT	QUA	NTITY					
INSTALLATION		EACH		1					
14 FT.		EACH		1					
ST-ARM MOUNTED		EACH	:	2					
CKET MOUNTED		EACH	:	5					
CKET MOUNTED		EACH	:	2					
D, 1-FACE, 3-SECTION, MAST ARM MOUNTE		EACH		1					
RACKET MOUNTED WITH COUNTDOWN TIMER		EACH	:	2					
RACKET MOUNTED WITH COUNTDOWN TIM	ER	EACH	:	2					
LUMINUM		EACH	:	3					
		EACH		1	тс	++	170	70	
ENT		EACH		1	12	++	138	SC	)
AL		EACH		1	ΗΔF	RVE	Y		
							-		
PLAN, PHASE DESIGNATION	F.A.P RTE.		SECT	ION	C	DUNTY	SHEET		HEET NO.
CLE PREEMPTION SEQUENCE		VARIOUS				соок	87		70
157th STREET					CON	TRACT	NO.	60X:	24
S STA. TO STA.	FED. RO	DAD DIST.	NO.	ILLINOIS FED.	AID PRC	JECT			

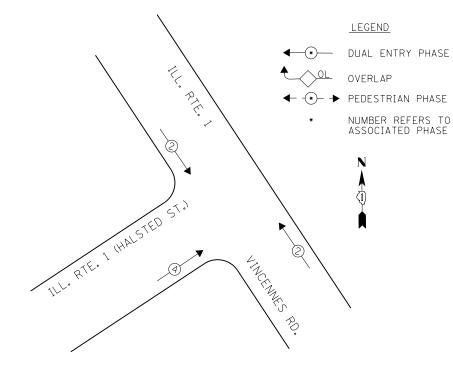


SCHEDULE OF QUANTITIES						
ITEM	UNIT	QUANTITIY				
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1				
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	4				
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2				
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2				
SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2				
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	2				
MODIFY EXISTING CONTROLLER CABINET	EACH	1				
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1				
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1				

5 K 5 11115			REGIONER IN IR	DEWICED					
FILE NAME =		USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN			
D160X24-sht-ts_TS18	1805.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS	· · · · · · · · · · · · · · · · · · ·			
		PLOT SCALE = 40.0000 ' / in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		IL RTE '	I (HALS	TED ST.)
Default		PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS



# CONTROLLER SEQUENCE



# PHASE DESIGNATION DIAGRAM

		I. D. O.					
	TRAFFIC S						
E	ELECTRICAL	SERVICE	REQUIE	REMENTS			
	NO. LAMPS	WAT INCAND.	TAGE LED	%OPERATION	TOTAL WATTAGE		
SIGNAL (RED)	9		17	0.50	76.5		
(YELLOW)	9		25	0.25	56.25		
(GREEN)	9		15	0.25	33.75		
ARROW	0		12	0.10	0		
PED SIGNAL	0		25	1.00	0		
CONTROLLER	1	100		1.00	100.0		
VIDEO SYSTEM		150		1.00	-		
BATTERY BACKUP	1	25		1.00	25.0		
				TOTAL =	296.3		
ENERGY COSTS- BILLED TO: <u>IDOT DISTRICT 1</u> <u>201 WEST CENTER COURT</u> <u>SCHAUMBURG, IL 60196-109</u> 6							
ENERGY SUPPLY- CONTAC PHONE			708-3	SHINABARGAF 25-2692 DNWEALTH ED			
FILE NAME =	USER NAM	1E = Brian So	ifers	DESIGNED K	IP		

## CONSTRUCTION NOTE

1 THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION. Ĩ.

RIE

(2) THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 15 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

# <u>NOTES</u>

- 1) ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED
- 2) PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT USABLE, REPLACE AS DIRECTED BY THE ENGINEER.
- 3) THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT AREINDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

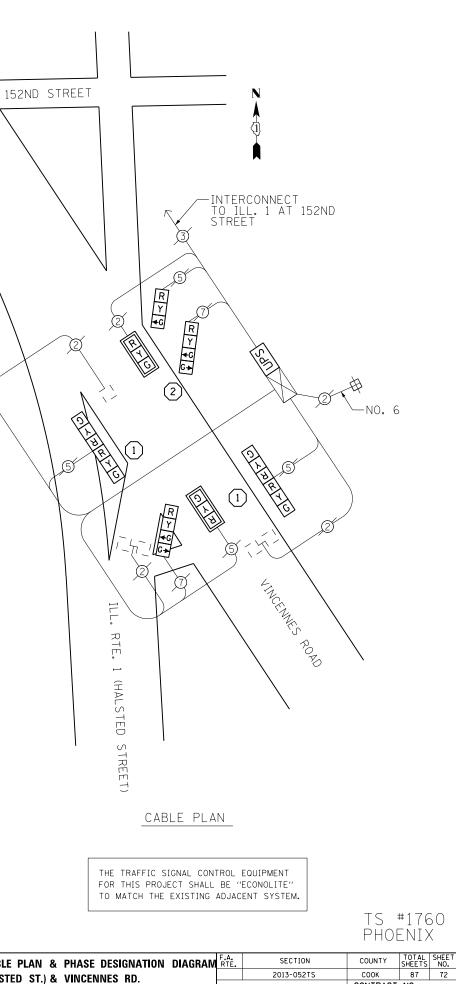
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2	EACH	SIGNAL	HEAD.	2-FACE.	3-SECTION
2	EACH	STONAL	HEAD	1-EACE	4-SECTION

۷ ک	EACH	SIGNAL HEAD,	ITFAUE,	4-3ECTIO
3	EACH	SIGNAL HEAD.	1-FACE.	3-SECTION
3	EACH	STEEL POST	·	

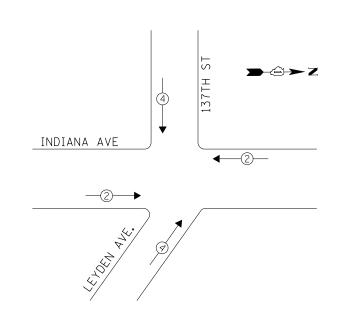
### SCHEDULE OF QUANTITIES ITEM UNIT OUANTITIY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH 1 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. EACH 2 TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT. EACH 1 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH 2 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED EACH 2 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED EACH 2 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 2 MODIFY EXISTING CONTROLLER CABINET EACH 1 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1 UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH 1

FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN &				
D160X24-sht-ts_TS1760.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS					
	PLOT SCALE = 40.0000 ' / in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	ILL. RTE. 1 (HALSTED ST.) &				
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	

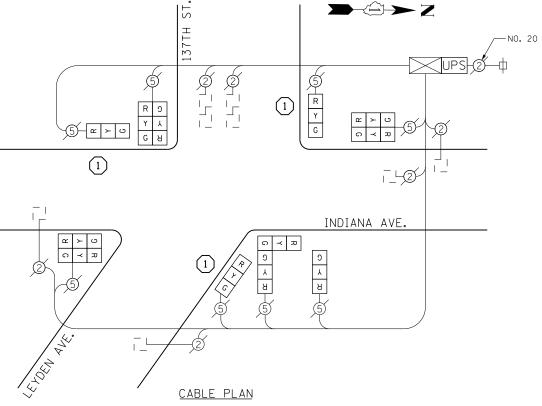


TS STA. TO STA. CONTRACT NO.









<u>Cable plan</u>

	TRAFFIC S           .ECTRICAL           NO. LAMPS           12           12           12           12           12           12           12           12           12	SERVICE	REQUIE TAGE		TOTAL WATTAGE 102 75 45 - - 100 - 25		
TYPE N SIGNAL (RED) (YELLOW) (GREEN) ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM BATTERY BACKUP	NO. LAMPS 12 12 12 12 12 12 1	WAT INCAND. 100 150	TAGE           LED           17           25           15           12	<b>%OPERATION</b> 0.50 0.25 0.25 0.10 1.00 1.00 1.00	WATTAGE 102 75 45 - 100 -		
SIGNAL (RED) (YELLOW) (GREEN) ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM BATTERY BACKUP	12 12 12 12	INCAND. 100 150	LED 17 25 15 12	0.50 0.25 0.25 0.10 1.00 1.00 1.00	WATTAGE 102 75 45 - 100 -		
(YELLOW) (GREEN) ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM BATTERY BACKUP	12 12 12	150	25 15 12	0.25 0.25 0.10 1.00 1.00 1.00	75 45 - 100 -		
(GREEN) ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM BATTERY BACKUP	12	150	15 12	0.25 0.10 1.00 1.00 1.00	45 - - 100 -		
ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM BATTERY BACKUP	1	150	12	0.10 1.00 1.00 1.00	- - 100 -		
PED SIGNAL CONTROLLER VIDEO SYSTEM BATTERY BACKUP	-	150		1.00 1.00 1.00	-		
CONTROLLER VIDEO SYSTEM BATTERY BACKUP	-	150	25	1.00 1.00	-		
VIDEO SYSTEM BATTERY BACKUP	-	150		1.00	-		
BATTERY BACKUP	1				25		
	1	25		1.00	25		
ENERGY COSTS-							
ENERGY COSTS-							
ENERGY COSTS-							
ENERGY COSTS-							
	BILI	_ED TO:	IDOT	TOTAL = DISTRICT 1	347.0		
			201 W	EST CENTER	COURT		
			SCHAUMBURG, IL 60196-1096				
ENERGY SUPPLY-	C	ONTACT	BRAD	SHINABARGA	R		
	Р	HONE	708-3	25-2692			
			COMMO	ONWEALTH E	DISON		
FILE NAME =							

REMOVAL	OF	EXISTING	TRAFFIC	SIGNAL	EQUIPMENT	
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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	SIGNAL HEAD, 1-FACE, 3-SECTION	
4	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION	
3	EACH	STEEL POST	

1)
2)
3)

UNIT	QUANTITIY
EACH	1
EACH	3
EACH	4
EACH	4
EACH	1
EACH	1
EACH	1
	EACH EACH EACH EACH EACH EACH

Default	PLOT DATE = 10/8/2013 DATE - REVIS		PLOT DATE = 10/8/2013 DATE - REVISED - SCALE:		SHEET OF	SHEETS	STA.	TO STA.	ILLINOIS FE	D. AID PROJECT			
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT	T NO.		
D160X24-sht-ts_TS5345.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES,CABLE PLAN, & PHASE DESIGNATION DIAGRAM		2013-052TS	СООК	87	73		
					SCHEDULE OF			SECTION	COUNTY	SHEETS	NO.		
FILE NAME =	USER NAME = Brian Scifers	DESIGNED -	REVISED -						F.A.	SECTION	COUNTY	TOTAL	SHEET
	PHONE <u>708-32</u>	IWEALTH EDISON									TS #5 RIVER		-

CONSTRUCTION NOTE

THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

### NOTES

ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED

PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT USABLE, REPLACE AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT AREINDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

### EXISTING SEQUENCE OF OPERATION

PHASE		Α			В	FL
INTERVAL	1	2	3	4	5	<sup>с</sup> s <sub>н</sub>
138TH ST EB	G	Y	Y	R	R	R
138TH ST WB	G	Y	R	R	R	R
INDIANA AVE	R	R	R	G	Y	R

### EXISTING RAILROAD PREEMPTION

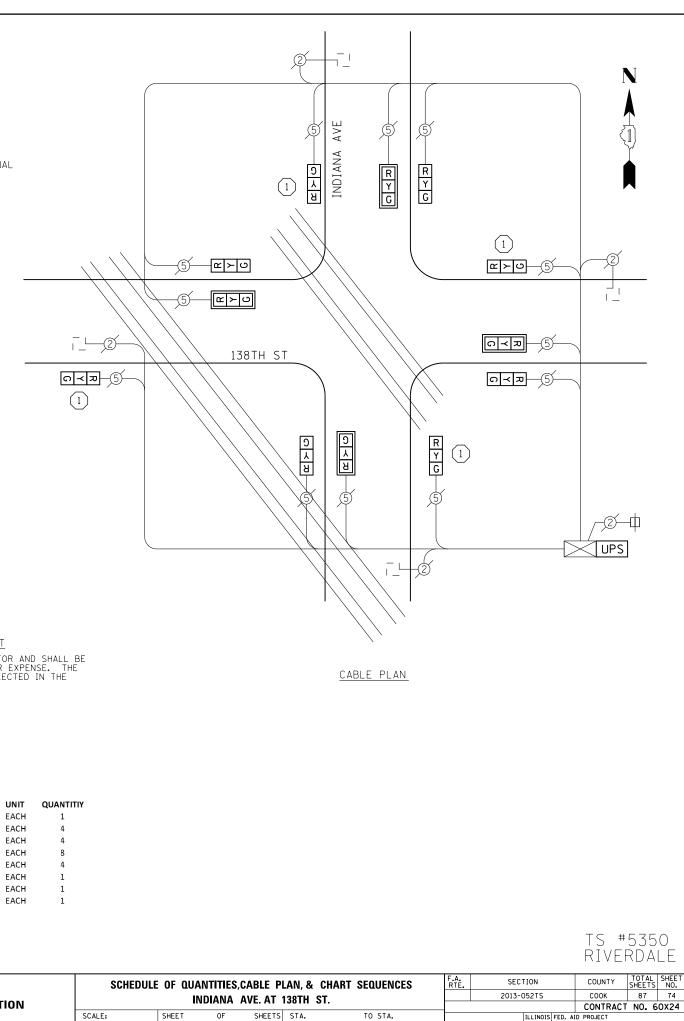
CLEARANCE REQ'D			2 3 4 5 /			3 4 5		A E PREEMPTIO					]
IF IN INTERVAL		1	2	3	4	5		6	7	8	9		
CHANGE TO		6	6	6	6	6		7	8	9	Z		
138TH ST EB	Y	γ	Y	Y	R	R		R	R	R	RATION		
138TH ST WB	Y	R	R	R	R	R		R	R	R	1 1 111		
INDIANA AVE SB	R	R	R	R	Y	Y		R	R	R	NORMAI		
INDIANA AVE NB	R	R	R	R	G	Y		G	Y	R	Z		

CONSTRUCTION NOTES:

1) THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

### <u>NOTES</u>

- 1) ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED
- 2) PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT USABLE, REPLACE AS DIRECTED BY THE ENGINEER.
- 3) THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT ARE INDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.



		I. D. O.	-					
E	TRAFFIC S							
TYPE	NO. LAMPS	WAT INCAND.	TAGE	20PERATION	TOTAL WATTAGE			
SIGNAL (RED)	12		17	0.50	102.0			
(YELLOW)	12		25	0.25	75.0			
(GREEN)	12		15	0.25	45.0			
ARROW			12	0.10	-			
PED SIGNAL			25	1.00	-			
CONTROLLER	1	100		1.00	100.0			
VIDEO SYSTEM		150		1.00	-			
BATTERY BACKUP	1	25		1.00	25.0			
TOTAL = 347.0 ENERGY COSTS- BILLED TO: IDOT DISTRICT 1								
1			201 W	EST CENTER	COURT			
			SCHAL	IMBURG, IL 60	0196-1096			
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	!			
	Ρ	HONE	708-3	25-2692				
			COMM	ONWEALTH ED	ISON			
FILE NAME =	USER NA	ME = Brian So	olfers	DESIGNED K	JP			

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

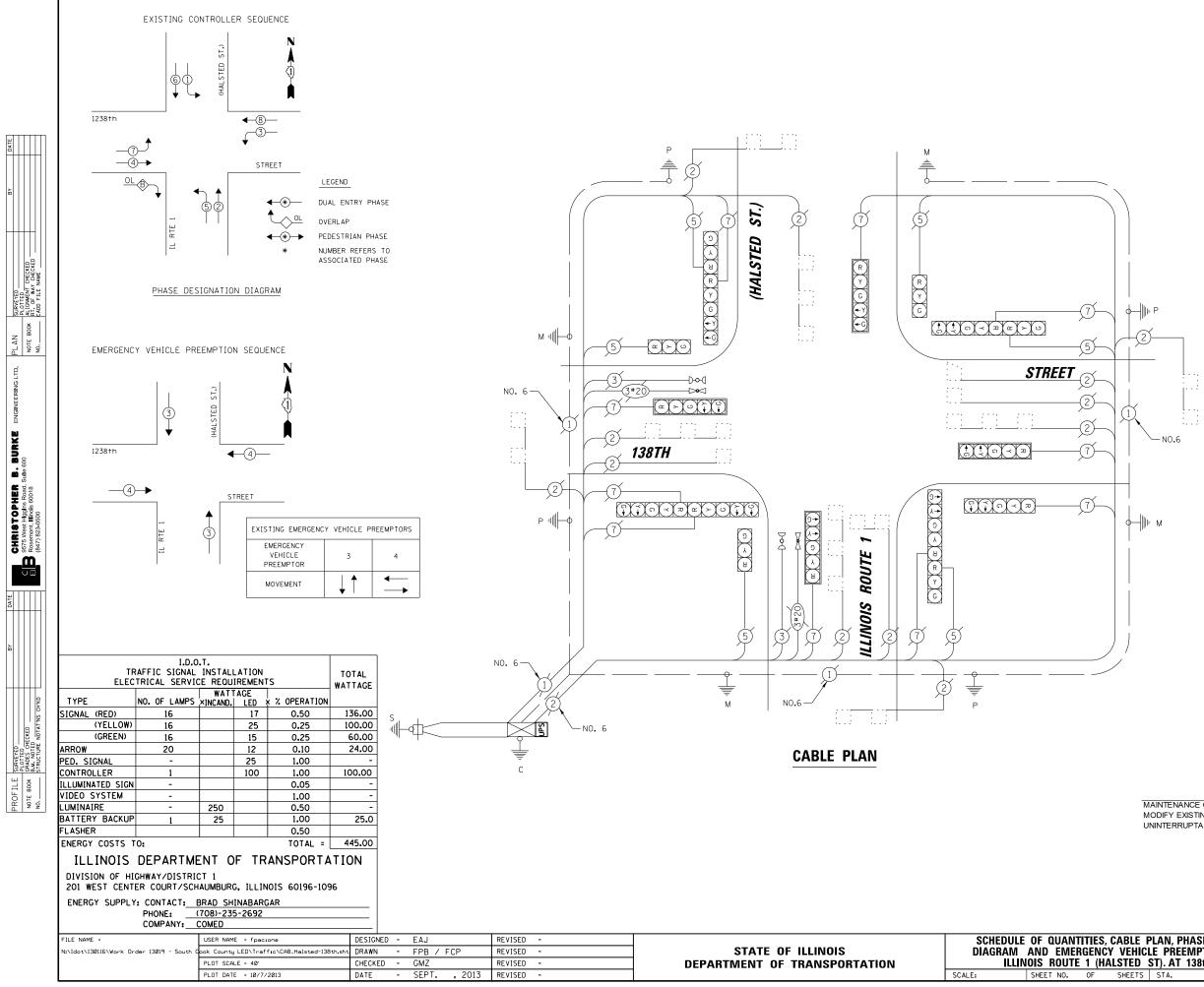
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

12	EACH	SIGNAL HEAD,	1-FACE,	3-SECTION
4	EACH	STEEL POST		

### SCHEDULE OF QUANTITIES ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

TRAFFIC SIGNAL POST, GALV	ANIZED STEEL 14 FT.	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3	3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3	3-SECTION, BRACKET MOUNTED	EACH	8
TRAFFIC SIGNAL BACKPLATE,	LOUVERED, ALUMINUM	EACH	4
MODIFY EXISTING CONTROLI	LER CABINET	EACH	1
REMOVE EXISTING TRAFFIC S	IGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER S	SUPPLY, SPECIAL	EACH	1

FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDULE				
D160X24-sht-ts_TS5350.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS	SUNEDULE		,		
	PLOT SCALE = 40.0000 ' / in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		IN	DIANA A'	VE. AT 1	13
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	5



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BURKE

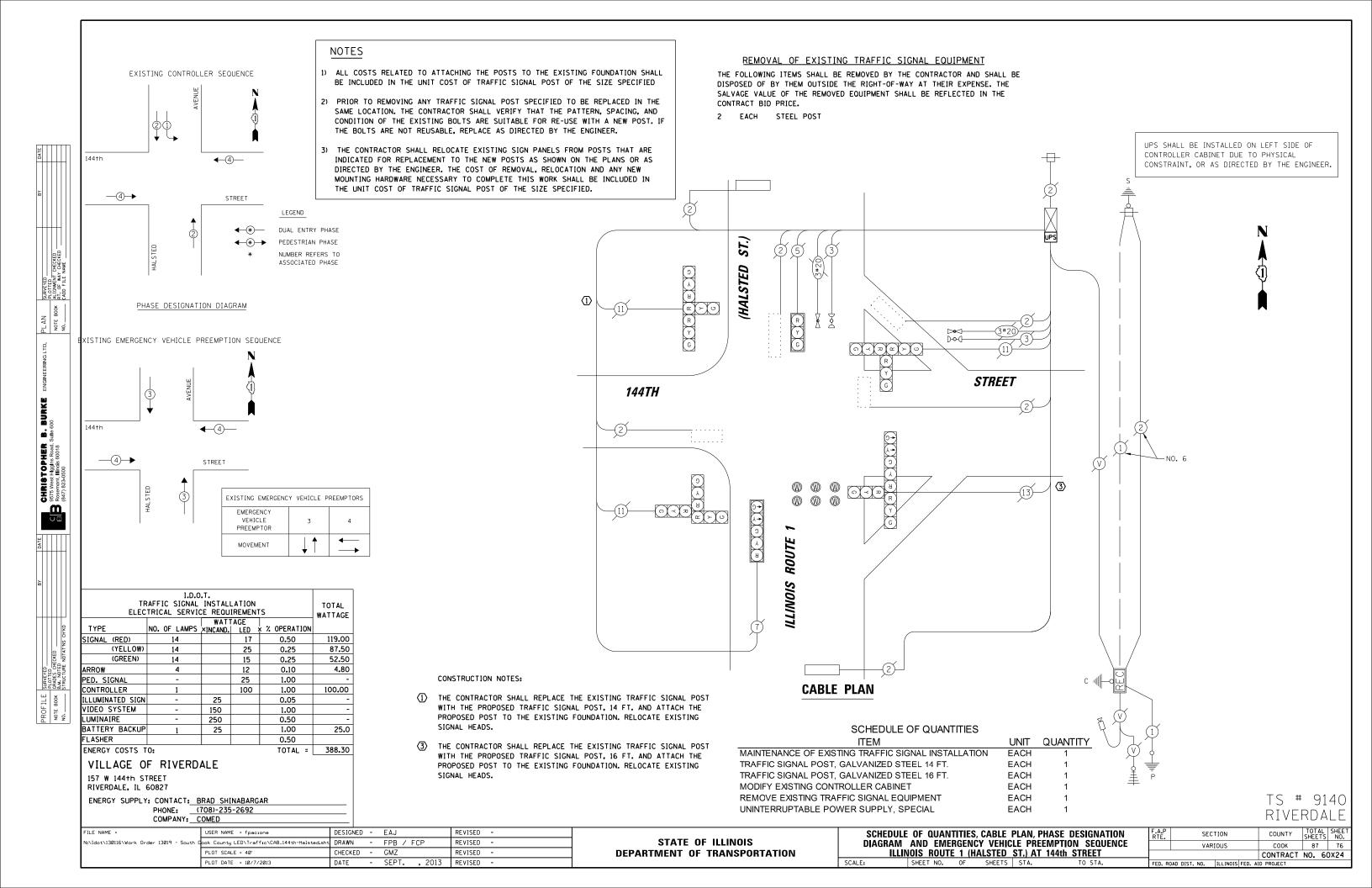


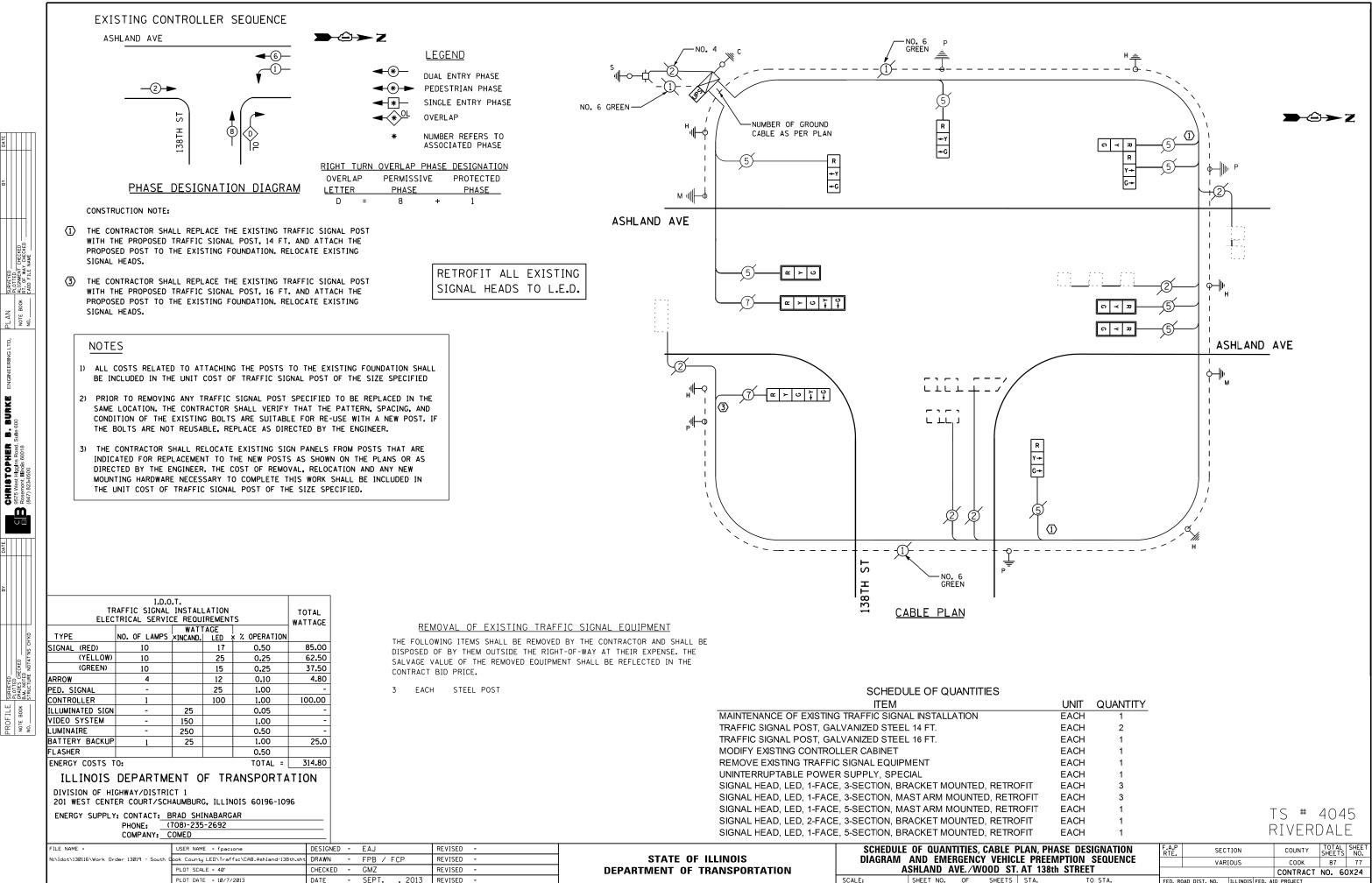
SCHEDULE	OF	QUANTITIES
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ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

## TS # 1795 RIVERDALE

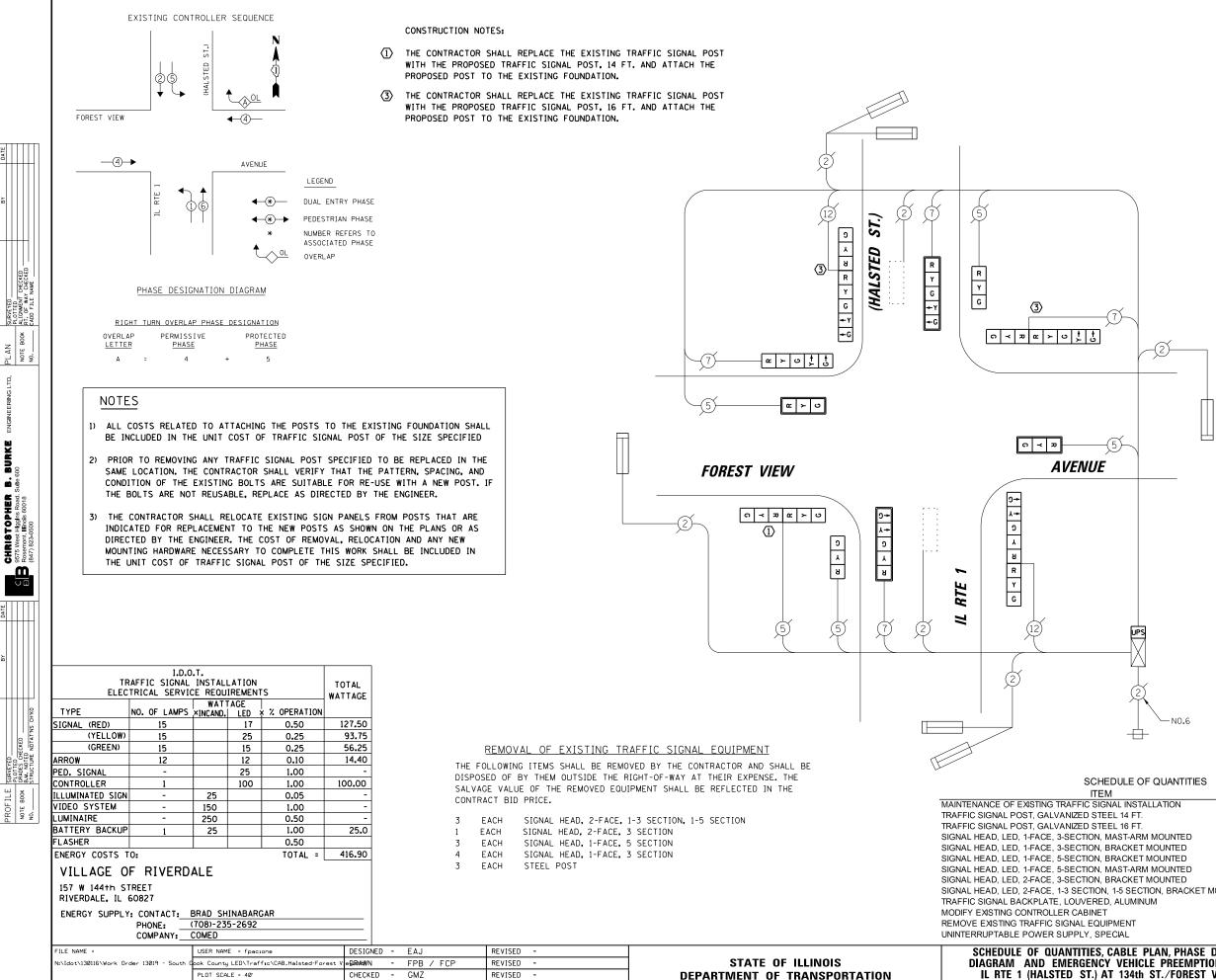
PLAN, PHASE DESIGNATION			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CLE PREEMPTION SEQUENCE			VARIOUS	СООК	87	75	
ST) AT 138th STREET					CONTRACT	NO. 60	)X24
5	STA.	TO STA.	FED. RC	AD DIST. NO. ILLINOIS FED. A	D PROJECT		





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Ξ	AT 138th STREET			VARIOUS					COOK	87		77	
•	AI 138th	SIREEI							1	CONTRACT	NO.	60	)X24
	STA.	TO STA.	FED. R	OAD 0	DIST.	NO.	ILLINOIS	FED. A	İD	PROJECT			



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REVISED

2013

DATE

PLOT DATE = 10/7/2013

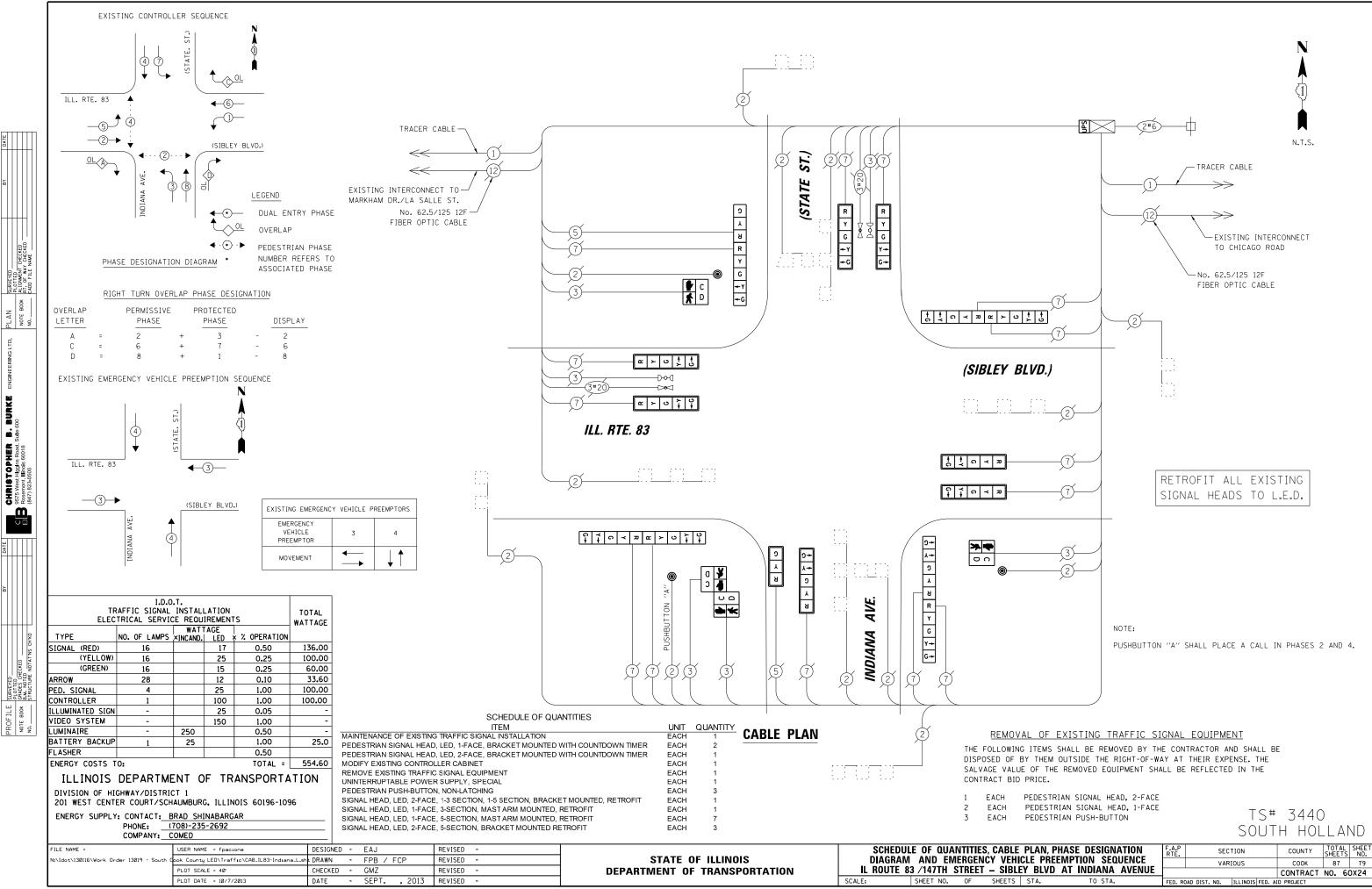
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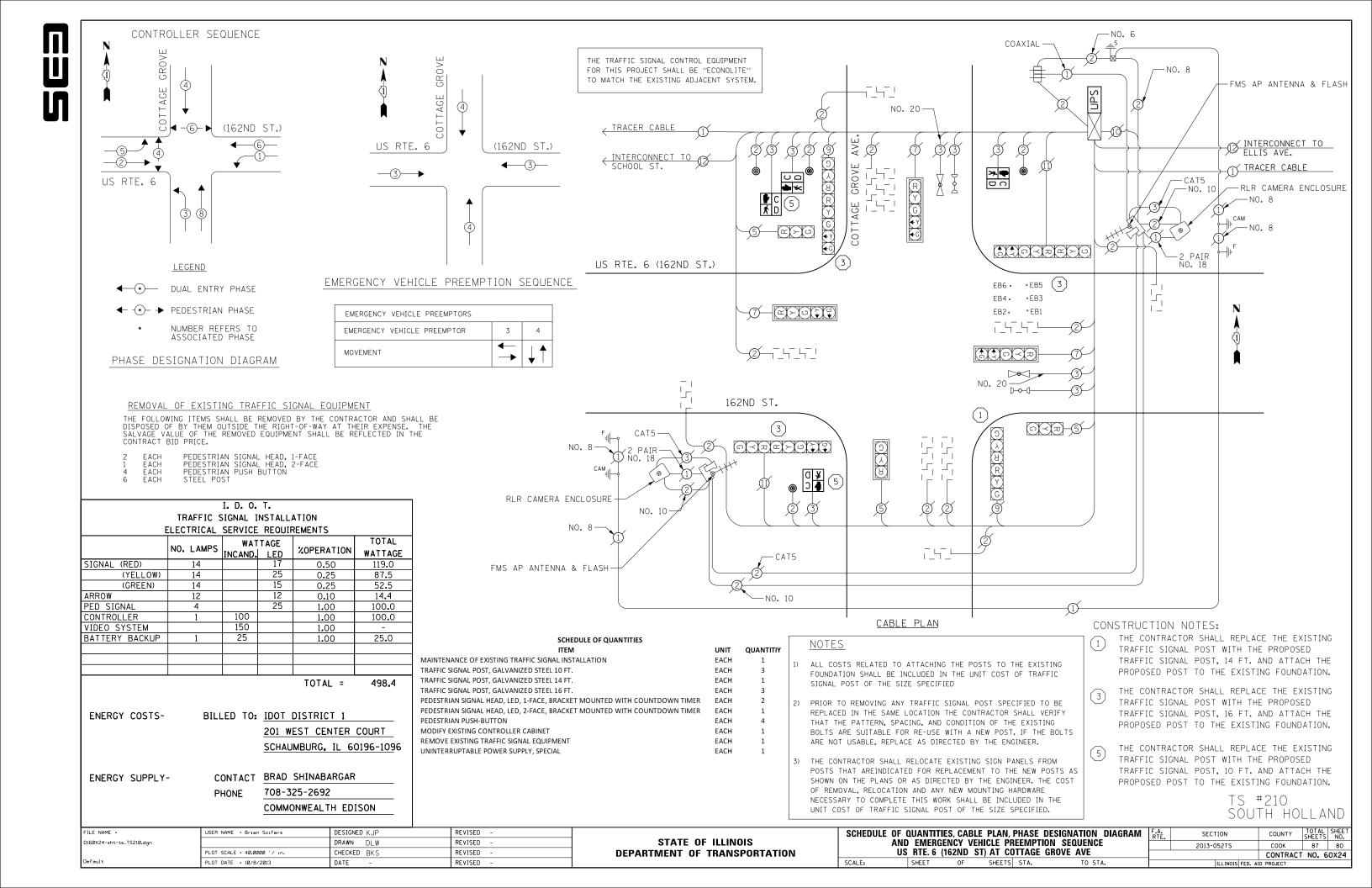
SHEET NO. OF SHEETS

SCALE.

	UNIT	QUANTIT	Ϋ́				
TALLATION	EACH	1					
Т.	EACH	1					
Т.	EACH	2					
RM MOUNTED	EACH	2					
ET MOUNTED	EACH	2					
ET MOUNTED	EACH	1					
RM MOUNTED	EACH	2					
ET MOUNTED	EACH	1					
CTION, BRACKET MOUNTED	EACH	3					
INUM	EACH	4			T C #	01-	
	EACH	1			TS #	913	55
	EACH	1			RIVEF		F
	EACH	1				1D AL	- ∟
PLAN, PHASE DESIGNATI		F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
ICLE PREEMPTION SEQUE			VARIOUS		COOK	87	78
<u>th ST./FOREST VIEW AVE</u>	_			CONTRACT	NO. 60	)X24	
S STA. TO STA.		FED. ROAD	DIST. NO. ILLI	NOIS FED. AI	D PROJECT		



E PLAN, PHASE DESIGNATION	F.A.P RTE.	SECTION			COUNTY	TOTA SHEET		
ICLE PREEMPTION SEQUENCE		VARIOUS			СООК	87	79	
LEY BLVD AT INDIANA AVENUE						CONTRACT	NO.	60X24
STA. TO STA.	FED. RC	DAD DIST.	NO.	ILLINOIS F	ED. AI	D PROJECT		



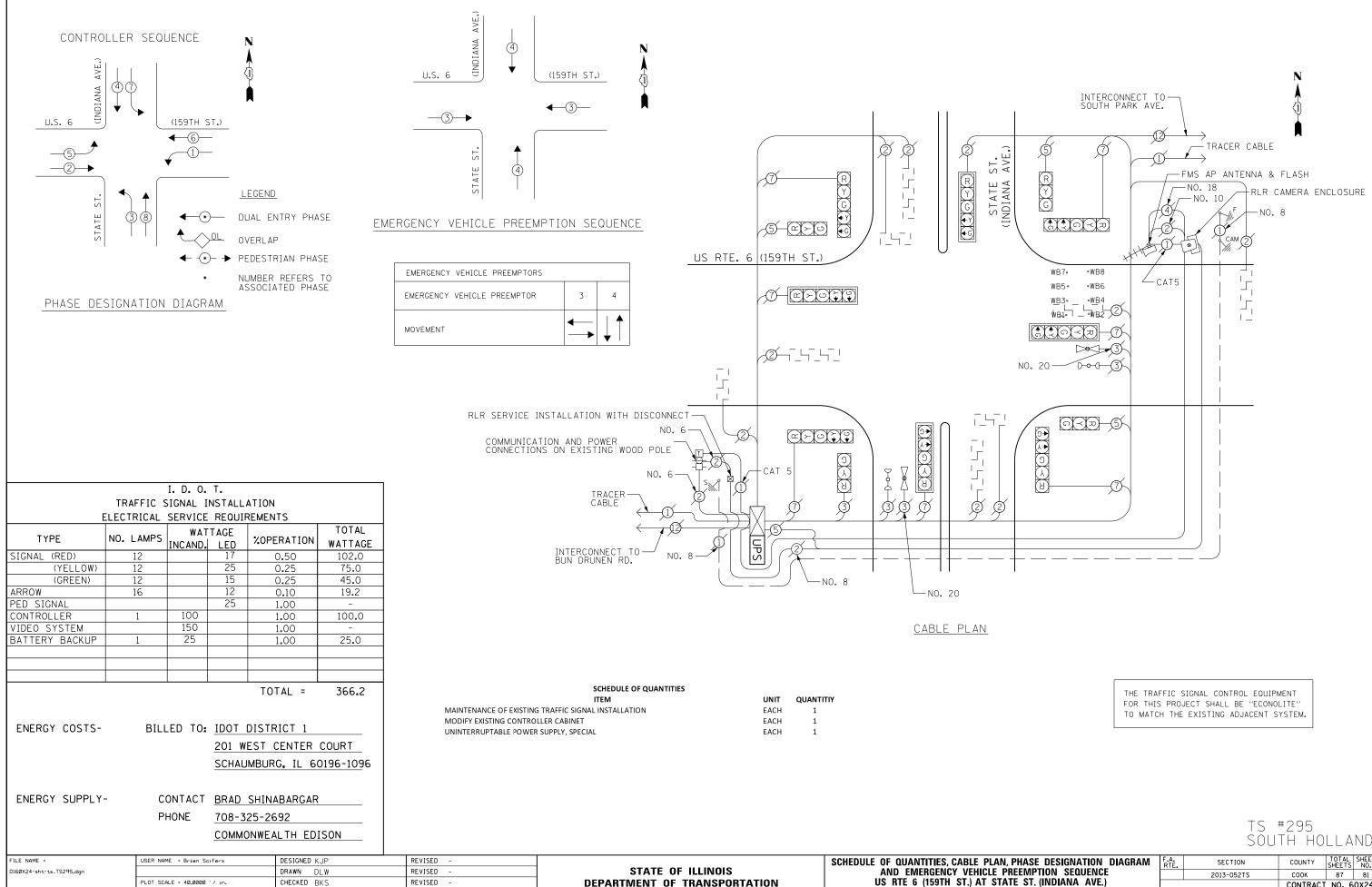


Default

PLOT DATE = 10/8/2013

DATE

REVISED



SCALE:

SHEET

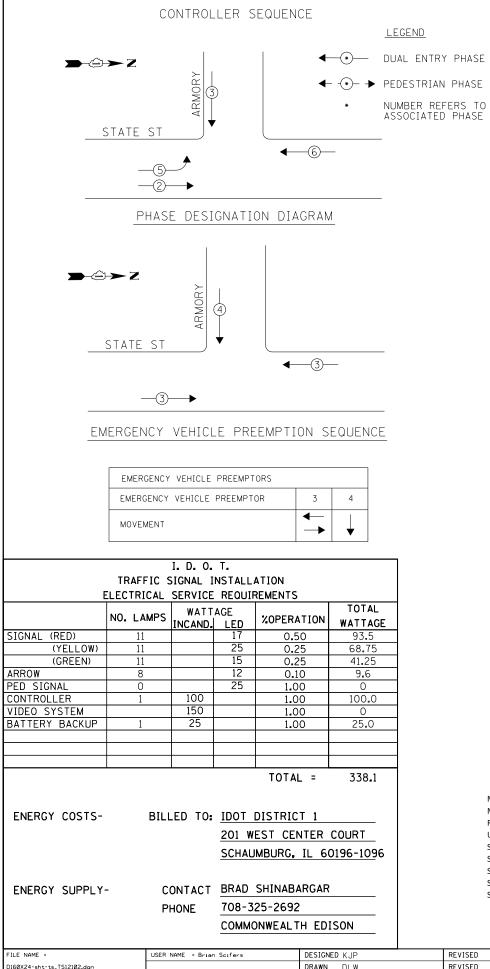
OF

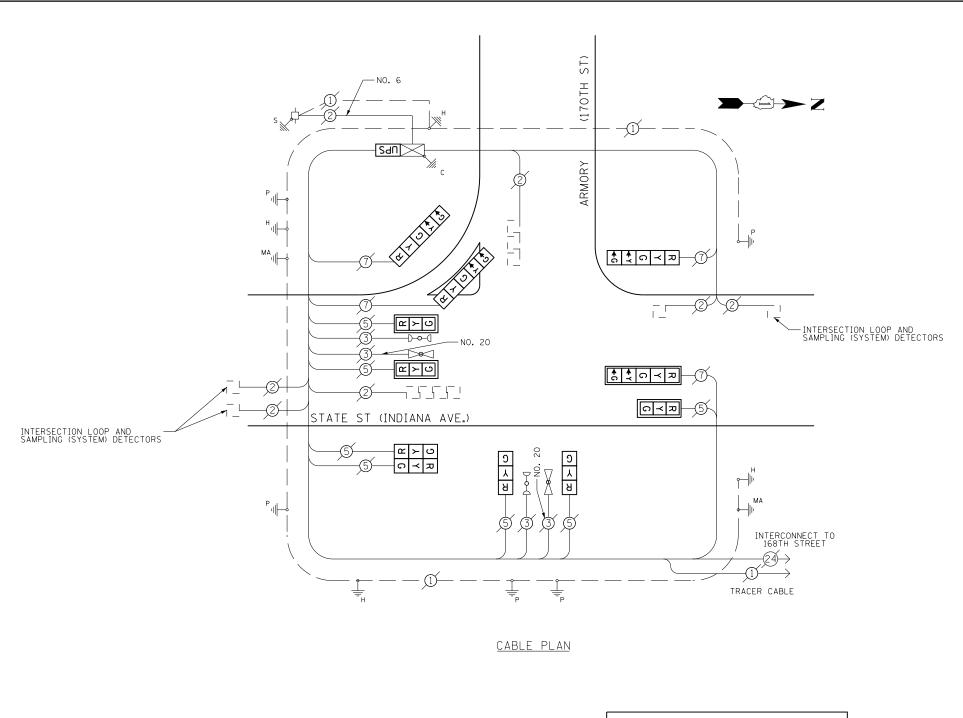
SHEET

# SOUTH HOLLAND

I, PHASE DESIGNATION DIAGRAM PREEMPTION SEQUENCE		SECTIO	ON	COUNTY	TOTAL SHEETS	SHEET NO.
		2013-05	87	81		
TE ST. (INDIANA AVE.)				CONTRACT	NO. 6	0X24
S STA. TO STA.		IL	LINOIS FED.	AID PROJECT		







SCHEDULE OF QUANTITIES	
ITEM UNI	QUANTITIY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EAC	+ 1
MODIFY EXISTING CONTROLLER CABINET EAC	+ 1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EAC	+ 1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL EAC	H 1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EAC	H 2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT EAC	H 3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT EAC	H 1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EAC	+ 1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT EAC	Н 3

FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -		SCHEDULE	OF QUANTITI	IES, CABL	.E PLAN, I	PHASE DES	SIGNATION DIAGRAM	F.A.	SECTION	COUNTY TOTAL SHEET
D160X24-sht-ts_TS12102.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				2013-052TS	COOK 87 82		
	PLOT SCALE = 40.0000 '/ in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		S	STATE ST	f at ariv	/IORY DR				CONTRACT NO. 60X24
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED. A	ID PROJECT

# RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

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

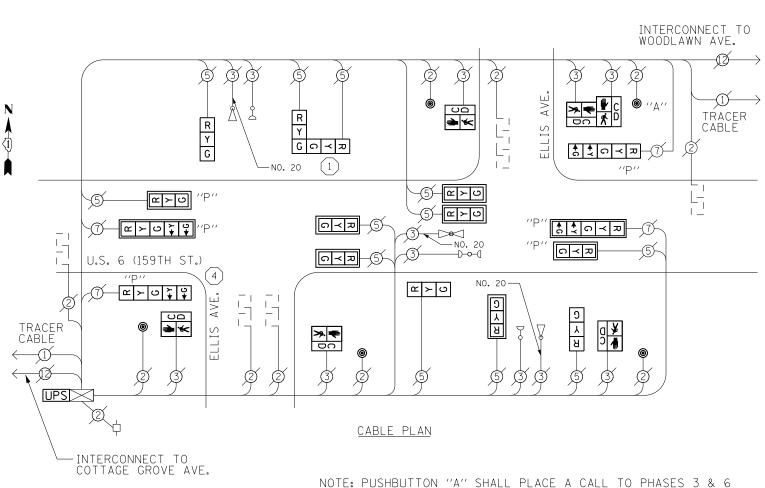
## TS #12102 South Holland

THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL (1)POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL (4)POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 18 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

## NOTES

- 1) ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED
- 2) PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT USABLE, REPLACE AS DIRECTED BY THE ENGINEER.
- 3) THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT AREINDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.



UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER.

> THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

		I. D. (	р. т.			1
	TRAFFIC S	SIGNAL	INSTALL	ATION		
l l	ELECTRICAL	SERVIO	CE REQUI	REMENTS		
	NO. LAMPS		ATTAGE D. LED	%OPERATION	TOTAL WATTAGE	
SIGNAL (RED)	16		17	0.50	136.0	
(YELLOW)	16		25	0.25	100.0	_
(GREEN)	16		15	0.25	60.0	_
ARROW	8		12	0.10	9.6	_
PED SIGNAL	6	100	25	1.00	150.0	_
CONTROLLER	1	100		1.00	100.0	-
VIDEO SYSTEM BATTERY BACKUP	1	25		1.00	0 25.0	-
DATIENT DACKUP	1	25		1.00	25.0	-
						-
						-
				TOTAL =	580.6	]
ENERGY COSTS-	BILI	_ED TO	D: <u>IDOT</u>	DISTRICT 1		
			201 W	EST CENTER	COURT	
			SCHAL	IMBURG, IL 6	0196-1096	
ENERGY SUPPLY	- C	ONTAC	t <u>BRAD</u>	SHINABARGAR	2	
	Р	HONE	708-3	25-2692		1
			COMM	ONWEALTH ED	ISON	
FILE NAME =		U	ISER NAME	= Brian Scifers		DE
D160X24-sht-ts_TS225.0	dan					DF
1	-					+

Default

SCHEDULE OF QUANTITIES	
ITEM	UNIT
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH
MODIFY EXISTING CONTROLLER CABINET	EACH
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH

NIT	QUANTITIY	
ACH	1	
٩СН	1	
٩СН	1	
٩СН	5	
٩СН	3	
ACH	1	
٩СН	2	
٩СН	2	
٩СН	2	
ACH	4	
ACH	1	
٩СН	9	
٩СН	1	
ACH	1	
ACH	1	
ACH	5	

RE	MOVAL	OF	EX:	[[5]]	Ī
BE THE	FOLLOWI DISPOSED SALVAGE CONTRAC	OF B VALL	Y THI JE OF	EM TH	ΟĹ
4 1 5 10 4 1 2	EACH EACH EACH EACH EACH EACH EACH	PED PED SIG SIG SIG	ESTR ESTR ESTR NAL H NAL H NAL H EL PI	IAN IAN IEA[ IEA[ IEA[	Ē), ), ),

											<b>F</b> •			
	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -			SCHEDULE	OF OUAN	ITITIES	AND CARL	ΕΡΙΔΝ	RTF.	SECTION	COUNTY S	TUTAL SHEET
ts_TS225.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS								2013-052TS	СООК	87 83
	PLOT SCALE = 40.0000 ' / 10.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		US RT	E.6 (159	H SI) A	T ELLIS A	VE.		2010 002.0	CONTRACT	NO.
	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	. AID PROJECT	

<u>ING TRAFFIC SIGNAL EQUIPMENT</u> \_ BE REMOVED BY THE CONTRACTOR AND SHALL UTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. REMOVED EQUIPMENT SHALL BE REFLECTED IN

SIGNAL HEAD, 1-FACE SIGNAL HEAD, 2-FACE PUSH BUTTON 1-FACE, 3-SECTION 1-FACE, 5-SECTION 2-FACE, 3-SECTION

# TS #225 South Holland

# 

## SEQUENCE OF OPERATION

MOVEMENT		-				P	6	6	Þ,			-				đ		P †								
	P	@	2	~ P				-				[						)   			5				100 No.	
PHASE				6	2.	+6	§		. 12						3							4	1			
INTERVAL	1	2	3A	38	30	30	4A	4B	4C	4D	5	6	_	78	<u>8</u> A	8B	8C	8D	9			11A		110	110	
CHANGE TO	1	1/			3			4	ŀ				2-	+6		4	-		$\vee$	2-	+6	3		3	3	
ELLIS AVE. N/B SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	Y	R	R	R	R
ELLIS AVE. S/B SIGNALS	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R
U.S. 6 E/B FAR RICHT SIGNAL AT EAST INTERSECTION	G	G	G	G	Y	R	G	G	G	G	R	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	R
U.S. 6 E/B END MAST ARM AND FAR LEFT SIGNALS AT EAST INTERSECTION	G	G	Ģ	G	Y	R	G	G	G	C	R	R	R	R	R	R	R	R	<u>G</u>	G Y	G	С —С	G -G	Y	R	R
U.S. 6 W/B SIGNALS AT EAST INTERSECTION	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	Ŕ	R	R	R	R	R	R	R	R
U.S. 6 W/B FAR RIGHT SIGNAL AT WEST INTERSECTION	G	G	G	G	G	G	G	G	Y	R	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R
U.S. 6 W/8 END MAST ARM AND FAR LEFT SIGNALS AT WEST INTERSECTION	G	G	G	G	G	G	G	G	Y	R	G G	G G	G Y	G	G G	G ~~G	Y	R	R	R	R	R	R	R	R	R
U.S. 6 E/B SIGNALS AT WEST INTERSECTION	G	G	Y	R	R	R	Y	R	R	R	Ŗ	R	R	R	R	R	R	R		R	R	R	R	R		R
PEDESTRIAN SIGNALS X-ING U.S. 6 AT EAST INTERSECTION	D W	D W		D W	DW	D W	D W	D W	D W	D W	w	DW	Р W	D W	D W	D W	W	D W	D W	D W	0 W	D W	0 W	D W	о W	3.
PEDESTRIAN SIGNALS X-ING ELLIS AVE AT EAST AND WEST INTERSECTION	· w	FE** DW	D W	D W	DW	DW	D W	Dw	р W	D W	D W	D W	DW	D W	0 W	D W	0 W	D W	D W	D W	° ₩	0 W	0 W	D W	D W	٩,

\* TO APPEAR ON PUSHBUTTON ACTUATION ONLY. \*\* FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN CLEARANCE INTERVAL.

				E	ME	R	GEN	ICY	<u>v</u>	EH		E I	PR	EEN	١P	[0]	<u>N :</u>	SE	QUI	ENG	<u>CE</u>							3	EEMP	5	CLEAR TO NORMAL SEQUENCE
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NO.						1					ti ti			5		.9							9					X	X	X	
EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NO.	1A	18	1C	10	1E	ίF	1G	1H	1J	١К	1L	1M	1N	1P	10	1R	1\$	1T	10	17	1 W	1X	14	1 <b>Z</b>	144	188	100	2	3	4	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NO.	2	10	10	1E	1F	3	1H	1J	1K	11	4	1N	1P	2	3	15	1T	10	1V	4	1X	2	1Z	14.4	188	3	4	$\times$	X	Х	
FUIS AVE N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	G	R	R	G	$\diamond$
SIGNALS ELLIS AVE. S/B SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	$\diamond$
U.S. 6 E/8 FAR RIGHT SIGNAL	G	G	G	G	Y	R	G	G	G	G	G	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	G	G	R	G	$\diamond$
U.S. 6 E/B FAR RIGHT SIGNAL AT EAST INTERSECTION U.S. 6 E/B END MAST ARM AND FAR LEFT SIGNALS AT EAST INTERSECTION	G	G	G	G	Y	R	G	G	G	G	G	R	R	R	Ŕ	R	R	R	R	R	G	G	<u> </u>	G G	Y	R	6	G	R	G G	$\diamond$
U.S. 6 W/B SIGNALS AT LOST INTERPECTION	G	G	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	'G	R	R	$\diamond$
U.S. 6 W/B FAR RIGHT SIGNAL AT WEST INTERSECTION	G	G	G	G	G	G	G	G	G	Y	R	G	G	G	Ģ	G	G	G	Y	R	R	R	R	R	R	R	R	G	G	R	$\diamond$
U.S. 6 W/B END MAST ARM AND	G	G	G	G	G	G	G	G	G	Y	R	G G	G	G	G 	G −C	G	G G	Y	R	R	R	R	R	R	R	R	G	-c	R	$\diamond$
U.S. 6 W/B END MAST ARM AND FAR LEFT SIGNALS AT WEST INTERSECTION, U.S. 6 E/B SIGNALS AT WEST INTERSECTION PEDESTRIAN SIGNALS X-ING U.S. 6 AT	G	G	Y	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	$\diamond$
PEDESTRIAN SIGNALS X-ING U.S. 6 AT	D W	Dw	D	D.	Đ	Dw	Dw	D.w	D. W	Dw	D W	FL	D W	D W	FL	FL	0 W	D W	DW	D W	0 W	D W	D W	0 W	0 W	D W	D W	D W	DW	D W	$\diamond$
EAST INTERSECTION PEDESTRIAN SIGNALS XING ELLIS AVE AT EAST AND WEST INTERSECTION	Ft DW	FL DW	D. W	0 W	0	D W	FL	Dw	D	D	0			D W	DW	DW	D W	DW	DW	DW	D W	D	0 W	D W	D W	DW	D W	0 W	D W	DW	$\bigcirc$

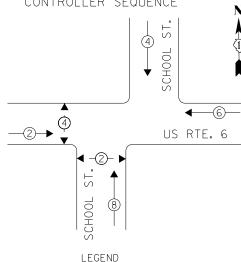
EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2,3, OR 4 IS TERMINATED.  $\Diamond$ 

				INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VE EMERGENCY VEHICLE INTERVAL 2,3, OR 4 IS TERM	HICLE INTERVA	AL AFTER		TS SOU	#225 Th Holland
FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -			CHART SEQUENCES	F.A.	SECTION	COUNTY TOTAL SHEET
D160X24-sht-ts_TS225CS.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS				2013-052TS	COOK 87 84
	PLOT SCALE = 40.0000 ' / in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		US RTE.6 (159TH ST) AT ELLIS AVE.			CONTRACT NO.
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET OF SHEETS STA. TO STA.		ILLINOIS FED	D. AID PROJECT

EMERGENCY VEHICLE

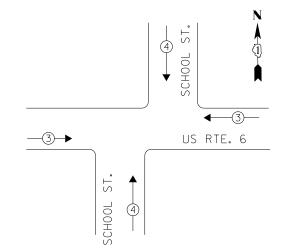


### CONTROLLER SEQUENCE



- ← (\*) DUAL ENTRY PHASE
- ← (\*)- → PEDESTRIAN PHASE NUMBER REFERS TO
- PHASE DESIGNATION DIAGRAM

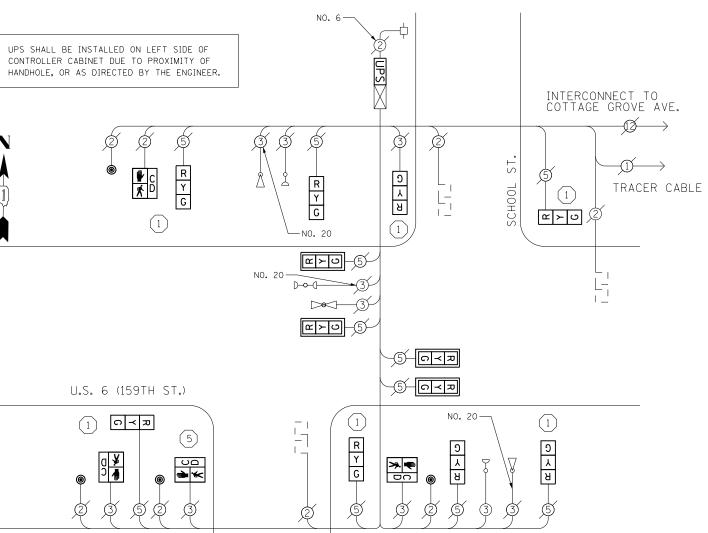
ASSOCIATED PHASE

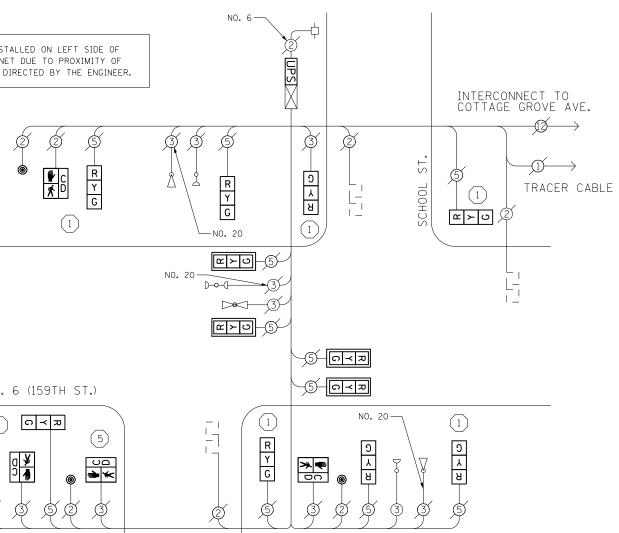


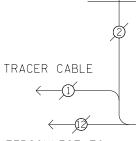
### EMERGENCY VEHICLE PREEMPTION SEQUENCE

### EMERGENCY VEHICLE PREEMPTORS EMERGENCY VEHICLE PREEMPTOR 3 4 -. MOVEMENT \_\_► •

CONTROLLER CABINET DUE TO PROXIMITY OF HANDHOLE, OR AS DIRECTED BY THE ENGINEER.







INTERCONNECT TO South Park ave.

<u>CABLE</u>	PLAN	

(1)

(5)

REI	MOVAL (	OF EXISTING TRAFFIC SIGNAL EQUIPMENT
DISP SALV	OSED OF	IG ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE JE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE ) PRICE.
4 4 12 7	EACH EACH EACH EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN PUSH BUTTON SIGNAL HEAD, 1-FACE, 3-SECTION STEEL POST

SCHEDULE OF QUANTITIES			
ITEM	UNIT	QUANTITIY	
AINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	
AFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1	
AFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	6	
NAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	
NAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8	
DESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	
AFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4	
DESTRIAN PUSH-BUTTON	EACH	4	
DDIFY EXISTING CONTROLLER CABINET	EACH	1	
MOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	
	EVCH	1	

			TOTAL =	447.0	SCHEDULE OF QUANTITIES		
			101/1E		ITEM	UNIT	QUANTITIY
					MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
		TOOT (			TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
ENERGY COSTS-	BILLED TO:		DISTRICT I		TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	6
		201 W	EST CENTER	COURT	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
					SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
		SCHAU	MBURG, IL 6	<u>0196-109</u> 6	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
					TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
					PEDESTRIAN PUSH-BUTTON	EACH	4
ENERGY SUPPLY-	CONTACT	BRAD S	SHINABARGAR		MODIFY EXISTING CONTROLLER CABINET	EACH	1
					REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	PHONE	708-32	5-2692		UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

		WEALTH EDISON	UNINTERRUPTABLE POWER SUPPLY,	SPECIAL EACH	1						TS SOL	#285 JTH HO	_LAND
FILE NAME =	USER NAME = Brian Scifers	DESIGNED – KJP	REVISED -		SCHEDULE	E OF QUANTITIE	ES, CABL	E PLAN, PHA	SE DESIGNATION D	AGRAM	SECTION	COUNTY	TOTAL SHEET
D160X24-sht-ts_TS285.dgn		DRAWN - DLW	REVISED -	STATE OF ILLINOIS		AND EMERGE	ENCY VE	HICLE PREEN	<b>APTION SEQUENCE</b>	KIL	2013-052TS	СООК	87 85
	PLOT SCALE = 40.0000 '/ in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION		US6	– 159TH	I ST AT SCH	100L ST			CONTRA	T NO. 60X24
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA	A. TO STA.		ILLINOIS F	D. AID PROJECT	

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		I. D. O.	Τ.		
	TRAFFIC S				
E	ELECTRICAL	SERVICE	REQUIE	REMENTS	
TYPE	NO. LAMPS	WAT INCAND.	TAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12		17	0.50	102.0
(YELLOW)	12		25	0.25	75.0
(GREEN)	12		15	0.25	45.0
ARROW	0		12	0.10	0
PED SIGNAL	4		25	1.00	100.0
CONTROLLER	1	100		1.00	100.0
VIDEO SYSTEM		150		1.00	0
BATTERY BACKUP	1	25		1.00	25.0
				TOTAL =	447.0
ENERGY COSTS-	BILL	ED TO:	IDOT	DISTRICT 1	
			201 W	EST CENTER	COURT
			SCHAU	MBURG, IL 6	<u>0196-109</u> 6
ENERGY SUPPLY	- C	ONTACT	BRAD	SHINABARGAR	
			700 70	0000	

### CONSTRUCTION NOTES:

THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

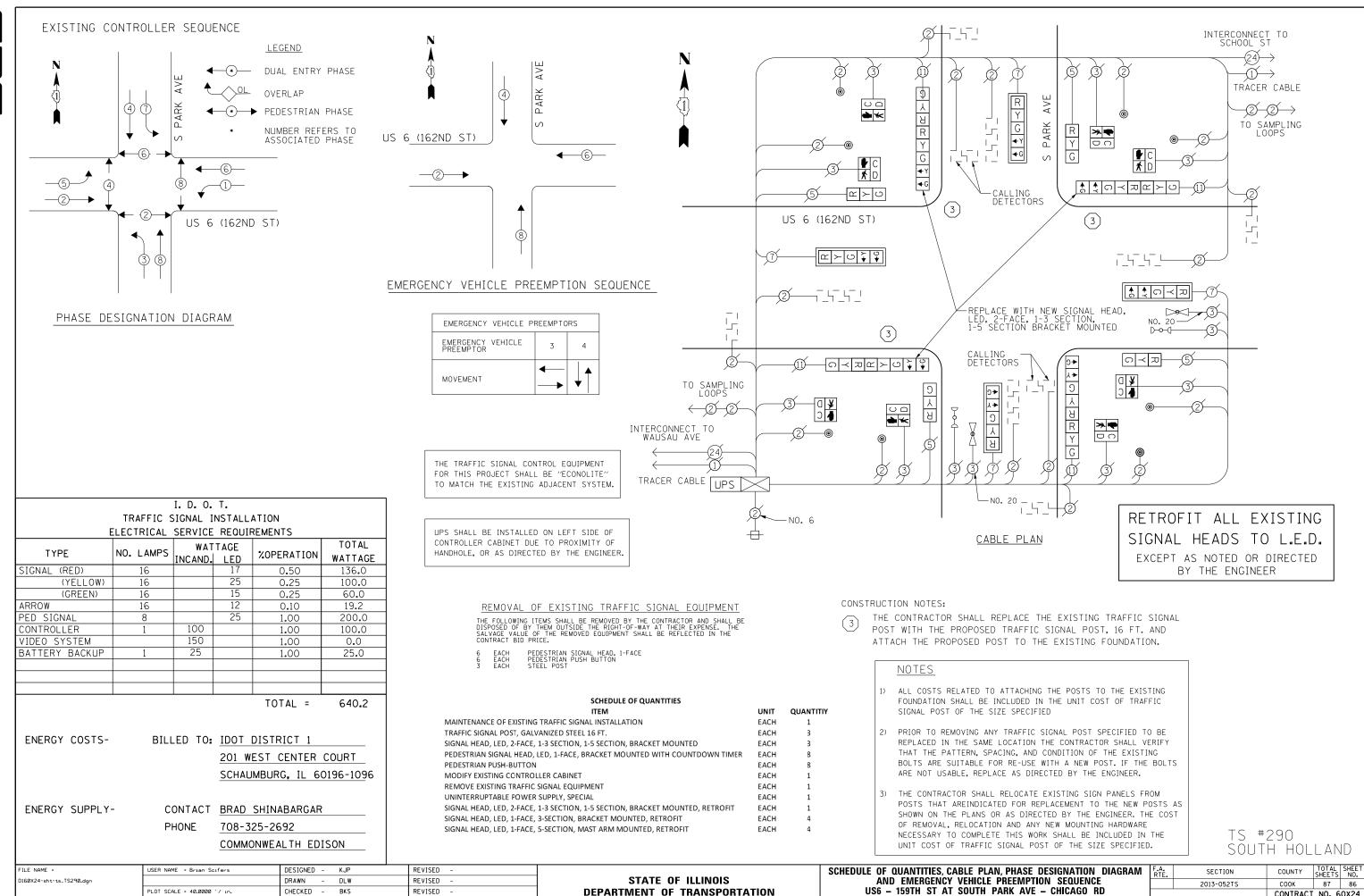
THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 10 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION.

### NOTES

1) ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED

2) PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT USABLE, REPLACE AS DIRECTED BY THE ENGINEER.

3) THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT AREINDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.



efault

PLOT DATE = 10/8/2013

DATE

REVISED

SCALE: SHEET OF

 UTH PARK AVE - CHICAGO RD
 2013-052TS
 COOK
 87
 86

 SHEETS
 STA.
 TO STA.
 ILLINOIS FED. AID PROJECT

### CONTROLLER SEQUENCE



N ↓ 135TH	KEDZI		▲ - (2)	← ⊙	LEGEND DUAL ENTRY PH OVERLAP PEDESTRIAN PH NUMBER REFERS ASSOCIATED PH	ASE 5 TO
		• -8- • • • • • 52				
<u>+</u>	<u>Phase des</u>	<u>516NATI(</u>	<u>Jn na</u>	<u>agram</u>		
	TRAFFIC		INSTALL			
TYPE		SIGNAL I SERVICE	INSTALL E REQUI TTAGE		TOTAL	
TYPE	NO. LAMPS	SIGNAL I SERVICE	INSTALL E REQUI TAGE LED 17	REMENTS %OPERATION 0.50	TOTAL WATTAGE 136.0	
TYPE GIGNAL (RED) (YELLOW)	NO. LAMPS	SIGNAL I SERVICE	INSTALL REQUI TAGE LED 17 25	REMENTS %OPERATION 0.50 0.25	WATTAGE 136.0 100.0	
TYPE GIGNAL (RED) (YELLOW) (GREEN)	NO. LAMPS	SIGNAL I SERVICE	INSTALL REOUI TAGE LED 17 25 15	REMENTS %OPERATION 0.50 0.25 0.25	WATTAGE 136.0 100.0 60.0	
TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW	NO. LAMPS	SIGNAL I SERVICE	INSTALL REQUI TAGE LED 17 25	REMENTS %OPERATION 0.50 0.25 0.25 0.10	WATTAGE 136.0 100.0 60.0 14.4	
TYPE GIGNAL (RED) (YELLOW) (GREEN) ARROW PED SIGNAL	NO. LAMPS 16 16 16 16 12	SIGNAL I SERVICE WAT INCAND	INSTALL REOUI TAGE LED 17 25 15 12	REMENTS %OPERATION 0.50 0.25 0.25	WATTAGE 136.0 100.0 60.0	
TYPE JIGNAL (RED) (YELLOW) (GREEN) RROW ED SIGNAL ONTROLLER JIDEO SYSTEM	NO. LAMPS 16 16 16 16 12 8	SIGNAL I SERVICE WAT INCAND.	INSTALL REOUI TAGE LED 17 25 15 12	REMENTS %OPERATION 0.50 0.25 0.25 0.10 1.00 1.00 1.00	WATTAGE 136.0 100.0 60.0 14.4 200.0 100.0 -	
TYPE GIGNAL (RED) (YELLOW) (GREEN) ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM	NO. LAMPS 16 16 16 12 8 -	SIGNAL I SERVICE WAT INCAND	INSTALL REOUI TAGE LED 17 25 15 12	REMENTS %OPERATION 0.50 0.25 0.25 0.10 1.00 1.00	WATTAGE 136.0 100.0 60.0 14.4 200.0	
TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM	NO. LAMPS 16 16 16 12 8 -	SIGNAL I SERVICE WAT INCAND.	INSTALL REOUI TAGE LED 17 25 15 12	REMENTS %OPERATION 0.50 0.25 0.25 0.10 1.00 1.00 1.00	WATTAGE 136.0 100.0 60.0 14.4 200.0 100.0 - 25.0	
TYPE SIGNAL (RED) (YELLOW)	ELECTRICAL NO. LAMPS 16 16 16 12 8 - 1	SIGNAL I SERVICE WAT INCAND. 100 150 25	INSTALL REOUI TAGE LED 17 25 15 12 25 	REMENTS %OPERATION 0.50 0.25 0.10 1.00 1.00 1.00 1.00	WATTAGE 136.0 100.0 60.0 14.4 200.0 100.0 - 25.0 635.4 COURT	
TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM BATTERY BACKUP	ELECTRICAL NO. LAMPS 16 16 16 12 8 - 1	SIGNAL I SERVICE WAT INCAND. 100 150 25 25	INSTALL REQUI TAGE LED 17 25 15 12 25 25 	REMENTS 20PERATION 0.50 0.25 0.10 1.0	WATTAGE 136.0 100.0 60.0 14.4 200.0 100.0 - 25.0 635.4 COURT 50196-1096	
TYPE GIGNAL (RED) (YELLOW) (GREEN) ARROW PED SIGNAL CONTROLLER (IDEO SYSTEM BATTERY BACKUP ENERGY COSTS-	ELECTRICAL NO. LAMPS 16 16 16 12 8 - 1	SIGNAL I SERVICE WAT INCAND. 100 150 25 LED TO:	INSTALL REOUI TAGE LED 17 25 15 12 25 12 25 10 12 25 12 12 12 12 12 12 12 12 12 12	REMENTS XOPERATION 0.50 0.25 0.10 1.0	WATTAGE 136.0 100.0 60.0 14.4 200.0 100.0 - 25.0 635.4 COURT 50196-1096	
TYPE SIGNAL (RED) (YELLOW) (GREEN) ARROW PED SIGNAL CONTROLLER VIDEO SYSTEM BATTERY BACKUP ENERGY COSTS-	ELECTRICAL NO. LAMPS 16 16 16 12 8 - 1 1 BIL BIL	SIGNAL I SERVICE WAT INCAND. 100 150 25 LED TO:	INSTALL REOUI TAGE LED 17 25 15 12 25 12 25 10 12 25 12 201 W <u>SCHAL</u> <u>BRAD</u> 708-3 <u>COMMO</u>	REMENTS 20PERATION 0.25 0.25 0.10 1.0	WATTAGE 136.0 100.0 60.0 14.4 200.0 100.0 - 25.0 635.4 635.4 COURT 50196-1096	

### <u>(2</u>)-REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT 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. SIGNAL HEAD, 1-FACE, 3-SECTION SIGNAL HEAD, 1-FACE, 5-SECTION SIGNAL HEAD, 2-FACE, 3-SECTION SIGNAL HEAD, 2-FACE, 3-SECTION, 5-SECTION PEDESTRIAN SIGNAL HEAD, 2-FACE PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN PUSH BUTTON SIELL POST UPS R 9 പ (5) -5)r r r r CONSTRUCTION NOTES THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL -(5)-<u>ແ≻</u>ດ POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 14 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION. -(2)-\_\_\_\_\_\_\_\_\_ THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 16 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION. THE CONTRACTOR SHALL REPLACE THE EXISTING TRAFFIC SIGNAL 135TH ST. POST WITH THE PROPOSED TRAFFIC SIGNAL POST, 10 FT. AND ATTACH THE PROPOSED POST TO THE EXISTING FOUNDATION. ດ <del>×</del> ກ <u>ແ≻</u>ວ -(5)-(5) ບ⊡ **≜**¥ -3)-0 ¥ 2 ◀ (5)@ -Ø--0 1) ALL COSTS RELATED TO ATTACHING THE POSTS TO THE EXISTING Ø Ì FOUNDATION SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED

2) PRIOR TO REMOVING ANY TRAFFIC SIGNAL POST SPECIFIED TO BE REPLACED IN THE SAME LOCATION THE CONTRACTOR SHALL VERIFY THAT THE PATTERN, SPACING, AND CONDITION OF THE EXISTING BOLTS ARE SUITABLE FOR RE-USE WITH A NEW POST. IF THE BOLTS ARE NOT USABLE, REPLACE AS DIRECTED BY THE ENGINEER.

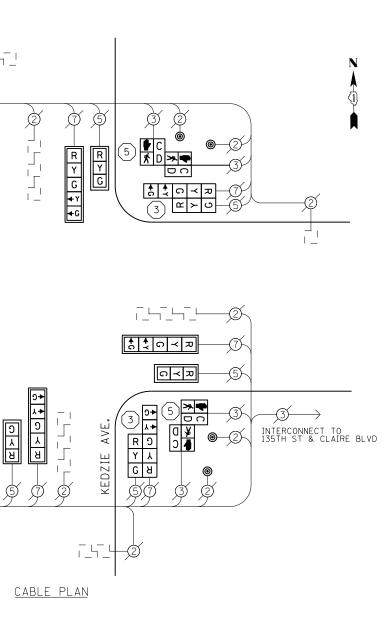
EACH EACH EACH EACH EACH EACH EACH EACH

NOTES

3) THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM POSTS THAT AREINDICATED FOR REPLACEMENT TO THE NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC SIGNAL POST OF THE SIZE SPECIFIED.

### SCHEDULE OF QUANTITIES UNIT QUANTITIY ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH 1 TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. EACH 5 TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. EACH 1 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. EACH 3 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED EACH 1 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED EACH 3 PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER FACH 2 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 3 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 8 PEDESTRIAN PUSH-BUTTON EACH 8 MODIFY EXISTING CONTROLLER CABINET EACH 1 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT FACH 1 UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH 1

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FILE NAME =	USER NAME = Brian Scifers	DESIGNED KJP	REVISED -							F.A.	SECTION	COUNTY	TOTAL SHEET
D160X24-sht-ts_TS11114.dgn		DRAWN DLW	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, & PHASE DESIGNATION DIAGRAM RTE.				2013-052TS	соок	87 87		
	PLOT SCALE = 40.0000 '/ in.	CHECKED BKS	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRACT NO. 60X24		
Default	PLOT DATE = 10/8/2013	DATE -	REVISED -		SCALE:	SCALE: SHEET		SHEETS STA.	TO STA.		ILL INOIS FF	AID PROJECT	



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS #11114