09-19-14 LETTING ITEM 016

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN SOUTH COOK COUNTY / CONTRACT #6 LIGHT EMITTING DIODE (LED) INSTALLATION

> 2014-043TS **COOK COUNTY**

> > D-91-379-14

HIGHWAY STANDARDS

701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT FDGE

701101-04 OFF-ROAD OPERATIONS MULITLANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701701-09 URBAN LANE CLOSURE MULTILANE INTERSECTION

701901-03 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAIL

720006-04 SIGN PANEL ERECTION DETAILS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

862001-01 UNITERRUPTABLE POWER SUPPLY (UPS)

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

REGION "D"

REGION "C"

REGION "A"

CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

1-800-892-0123

PROJECT MANAGER: DARYLE DREW PROJECT ENGINEER: LUKASZ POCIECHA

COOK COUNTY LOCATION MAP SEE SHEET NO. 3 & 4



REGION "B"

LOCATION OF SECTION INDICATED THUS: -

2014-043TS

D-91-379-14

STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION OR 811

CONTRACT NO. 60Y41

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INDEX OF SHEETS

COVER SHEET INDEX OF SHEETS & GENERAL NOTES LOCATION MAP 5-10 SUMMARY OF QUANTITIES

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS 11-17

TRAFFIC SIGNAL PLANS:

PAGE*	TS*	INTERSECTION NAME
10	105	IL DOUTE SO (CLOSDO LUENUS) ET LOCTU DI LOC
18 19	125 2510	IL ROUTE 50 (CICERO AVENUE) AT 128TH PLACE
20	2510	IL ROUTE 50 (CICERO AVENUE) AT 111TH STREET
21	2555	IL ROUTE 50 (CICERO AVENUE) AT 113TH STREET (STATE BANK OF ALSIP)
22	2560	IL ROUTE 50 (CICERO AVENUE) AT 122ND STREET IL ROUTE 50 (CICERO AVENUE) AT 123RD STREET
23	3936	123RD STREET AT CRAWFORD AVENUE (PULASKI ROAD)
24	3960	115TH STREET AT CRAWFORD AVENUE (PULASKI ROAD)
25	3990	127TH STREET AT CRAWFORD AVENUE (PULASKI ROAD)
26	4270	111TH STREET AT CRAWFORD AVENUE (PULASKI ROAD)
27	4890	119TH STREET AT CRAWFORD AVENUE (PULASKI ROAD)
28	4892	CRAWFORD AVENUE (PULASKI ROAD) AT JEWEL/ALDI (120TH STREET)
29	5385	KEDZIE AVENUE AT 123RD STREET
30	20965	127TH STREET AT KOSTNER AVENUE
31	2456	IL ROUTE SO (CICERO AVENUE) AT 66TH STREET
32	4222	BURNHAM AVENUE AT 142ND STREET
33	4530	140TH STREET AT TORRENCE AVENUE (IL ROUTE 83)
34	20615	BRAINARD AVENUE AT HEGEWISCH METRA STATION
35	2455	IL ROUTE 50 (CICERO AVENUE) AT 65TH STREET
36	3915	87TH STREET AT KOSTNER AVENUE
37-39	3920	SOUTHWEST HIGHWAY/PULASKI ROAD/KOMENSKY AVENUE AT 87TH STREET
40	10750	IL ROUTE 7 (SOUTHWEST HIGHWAY) AT DUFFY AVENUE
41	4115	IL ROUTE 171 (CUMBERLAND AVENUE) AT ADDISON STREET
42	5095	FOREST PRESERVE DRIVE AT MONTROSE AVENUE
43	5710	RIEGEL ROAD AT HOLBROOK ROAD
44	470	U.S. ROUTES 12/20 (95TH STREET) AT
		CHICAGO RIDGE MALL DRIVE (ENTRANCE "B")
45	505	U.S. ROUTES 12/20 (95TH STREET) AT
		CHICAGO RIDGE MALL DRIVE (ENTRANCE "A")/NASHVILLE AVENUE
46	2200	IL ROUTE 43 (HARLEM AVENUE) AT 99TH STREET
47	2205	IL ROUTE 43 (HARLEM AVENUE) AT 103RD STREET
48	3945	111TH STREET AT CENTRAL AVENUE
49	3950	111TH STREET AT RIDGELAND AVENUE
50	21220	111TH STREET AT AUSTIN AVENUE
51	2645	IL ROUTE 50-83 (CICERO AVENUE) AT IL ROUTE 83 (CAL SAG ROAD)
52	2649	IL ROUTE 50-83 (CICERO AVENUE) AT RIVERCREST EAST ENTRANCE
53	2650	IL ROUTE 50-83 (CICERO AVENUE) AT 135TH STREET
54	2655	IL ROUTE 50-83 (CICERO AVENUE) AT MIDLOTHIAN TURNPIKE
55	4030	135TH STREET AT LONG AVENUE
56 57	4040	135TH STREET AT CENTRAL AVENUE
-	20366	IL ROUTE 50-83 (CICERO AVENUE) AT 137TH STREET
58 59	3985 5405	127TH STREET AT CENTRAL AVENUE
60	5100	PFINGSTEN ROAD AT EAST LAKE AVENUE FOREST PRESERVE DRIVE AT OAK PARK AVENUE
61	100	IL ROUTE 171/1ST AVENUE AT
4.	100	IC MODIF SISSES MACHER WE

1-290 EISENHOWER EXPRESSWAY/HARRISON STREET

GENERAL NOTES:

- CONTRACTOR SHALL REPLACE ALL METAL MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEAD INTERSECTIONS OR AS DIRECTED BY THE ENGINEER, 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.
- 2. CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A 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 TRAFFIC SIGNAL POST, GALVANIZED STEEL PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.
- DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTOR SHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION. THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE 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.

RLR CAMERA LOCATION: 100 - IL RTE 171/1ST AVE AT 1-290 EISENHOWER EXPRESSWAY/HARRISON ST

VILLAGE OF MAYWOOD 40 MADISON STREET MAYWOOD, IL 60153 708-450-6300

AMERICAN TRAFFIC SOLUTIONS 1330 W. SOUTHERN AVE. TEMPE. AZ 85282 480-443-7000

- 4. 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 PATTERN. SPACING, AND CONDITION OF THE EXISTING ANCHOR BOLT IS ACCEPTABLE FOR REUSE WITH A NEW POST. IF THE EXISTING ANCHOR BOLT CONDITION IS NOT ACCEPTABLE. THE CONTRACTOR SHALL REPLACE ANCHOR BOLT AS DIRECTED BY THE ENGINEER. ANCHOR BOLT REPLACEMENT WILL BE PAID FOR AS "REMOVE AND REPLACE ANCHOR BOLTS". "REMOVE AND REPLACE ANCHOR BOLTS" PAY ITEM QUANTITIES SHOWN ARE NOMINAL AND ONLY TO BE UTILIZED AS APPROVED BY THE ENGINEER.
- ANY ADDITIONAL CABLE LENGTHS NECESSARY FOR THE PROPER INSTALLATION OF AN UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED DUE TO THE LARGER DISTANCE AWAY FROM THE CONTROLLER CABINET SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED PAY ITEM.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- 7. THE EXACT LOCATION OF ALL UTILITES 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 IDOT UNDERGROUND
 FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- 8. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.
- 9. PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

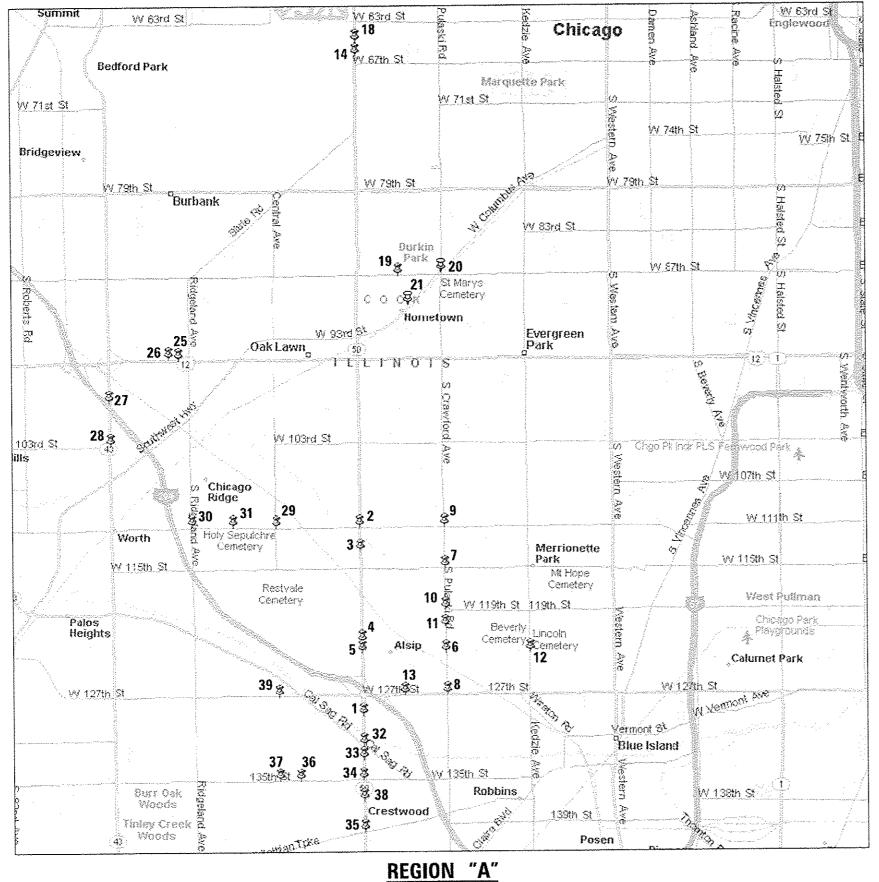
SCALE:

10. A CONCRETE APRON SHALL NOT BE REQUIRED FOR NEW UPS INSTALLATIONS ADJACENT TO EXISTING IMPERVIOUS SURFACES THAT SATISFY THE NEED OF THE CONCRETE APRON, AS DIRECTED BY THE ENGINEER.

USEA NAMEUSEANAME.	DESIGNED	-	DW	REVISEO	-	
	ORAWN	-	CC	REVISEO	-	
PLOT SCALE = 20.0000 1/ 1m.	CHECKED		JDH	REVISED		
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INISTY OF CUESTO O OFFICE MOTEO	F.A. RTE,	SECTION	COUNTY	TOTAL	SHEET NO.
INDEX OF SHEETS & GENERAL NOTES		2014-043TS	COOK	61	2
			CONTRACT	NO. 6	OY41
SHEET NO. OF SHEETS STA. TO STA		ILLINOIS			

DEPARTMENT OF TRANSPORTATION

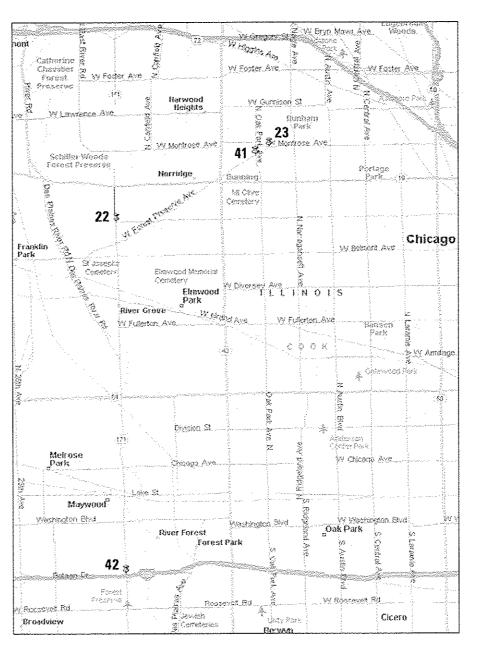


LOCATION			
NO.	RECION	TS NO.	LOCATION
1.	A	125	IL ROUTE 50 (CICERO AVENUE) AT 128TH PLACE
2.	A	2510	IL ROUTE 50 (CICERO AVENUE) AT 111TH STREET
3.	A	2515	IL ROUTE 50 (CICERO AVENUE) AT 113TH STREET (STATE BANK OF ALSIP)
4.	Α	2555	IL ROUTE 50 (CICERO AVENUE) AT 122ND STREET
5.	Α	2560	IL ROUTE 50 (CICERO AVENUE) AT 123RD STREET
6.	A	3936	123RD STREET AT CRAWFORD AVENUE (PULASKI ROAD)
7.	Α	3960	115TH STREET AT CRAWFORD AVENUE (PULASKI ROAD)
8.	A	3990	127TH STREET AT CRAWFORD AVENUE (PULASKI ROAD)
9.	A	4270	111TH STREET AT CRAWFORD AVENUE (PULASKI ROAD)
10.	A	4890	119TH STREET AT CRAWFORD AVENUE (PULASKI ROAD)
11.	A	4892	CRAWFORD AVENUE (PULASKI ROAD) AT JEWEL/ALDI (120TH STREET)
12.	A	5385	KEDZIE AVENUE AT 123RD STREET
13.	A	20965	127TH STREET AT KOSTNER AVENUE
14.	A	2456	IL ROUTE 50 (CICERO AVENUE) AT 66TH STREET
15.	8	4222	BURNHAM AVENUE AT 142ND STREET
16.	В	4530	140TH STREET AT TORRENCE AVENUE (11 ROUTE 83)
17.	8	20615	BRAINARD AVENUE AT HEGEWISCH METRA STATION
18.	A	2455	IL ROUTE 50 (CICERO AVENUE) AT 65TH STREET
19.	A	3915	87TH STREET AT KOSTNER AVENUE
20.	A	3920	SOUTHWEST HIGHWAY/PULASKI ROAD/KOMENSKY AVENUE AT 87TH STREET
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22.	C	4115	IL ROUTE 171 (CUMBERLAND AVENUE) AT ADDISON STREET
23.	C	5095	FOREST PRESERVE DRIVE AT MONTROSE AVENUE
24.	8	5710	RIEGEL ROAD AT HOLBROOK ROAD
25.	A	470	U.S. ROUTES 12/20 (95TH STREET) AT
			CHICAGO RIDGE MALL DRIVE (ENTRANCE "B")
26.	A	505	U.S. ROUTES 12/20 (95TH STREET) AT
			CHICAGO RIDGE MALL DRIVE (ENTRANCE "A") / NASHVILLE AVENUE
27.	A	2200	IL ROUTE 43 (HARLEM AVENUE) AT 99TH STREET
28.	A	2205	IL ROUTE 43 (HARLEM AVENUE) AT 103RD STREET
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42.	С	100	IL ROUTE 171/IST AVENUE AT 1-290 EISENHOWER EXPRESSWAY/HARRISON STREET
			1-520 STOCKHOUSE EVEROUNDS DOWN DOWN DOWNERS

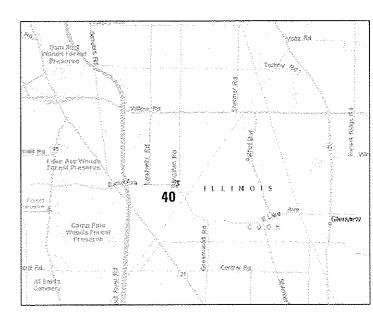
SOUTH COOK COUNTY

 HOSE NAME & INSERNAME	DESIGNED -	n₩.	REVISEO -			LOCATION MAP		F.A. RTE.	SECTION	COUNTY	SHEETS NO.	
GARIT MAILE IN LOCKETON MAX	DRAWN -	cc	REVISED -	STATE OF ILLINOIS	****	(SHEET 1 OF 2)			2014-04375	COOK	61 3 T NO. 60Y41	
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PLOT DATE * 7/9/2814	DATE -		REVISED -		JUNEEL 1913 SHEET 1901 C	, Jack 10 2111						

REGION "B"



REGION "C"



REGION "D"

SOUTH COOK COUNTY

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PLOT DATE = 7/9/2014	DATE ~		REVISED -		SCALE: NTS SHEET NO). OF	SHEETS	STA.	TO STA.	<u> </u>	ILLINOIS		

FILE WAVE A

SUMMARY OF QUANTITIES HEADING LEGEND

, 7.480 TYS							
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STATE	OF	ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

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7000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	0	6	6														
37100100	MOBILIZATION	L SUM	-	1	i						H			-					L
0102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	,	*	w						H			_					-
5000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	+	42	14	2 4	1	1	2	1		1 1	1	1 2	2	1 !	1 2	1	
6400100	TRANSCEIVER - FIBER OPTIC	EACH	+	5	***************************************	1								1 1					
7502480	TRAFFIC SIGNAL POST, CALVANIZED STEEL 14 FT.	EACH		18	5				5	1	2	4	1						Ĺ
7502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH		5	2				-		$\vdash \downarrow$	2		_	4				L
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7502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH		51	19	4		1			1	3		4 4	1 3	4	5		
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7502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH		4	2			,			\mathbf{H}	1		+		\vdash			_
8030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH		45	16	1		3	3 2		6	2	2	4 3	2		4		-
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8030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	-	42	12	5			5 2		2	1 3	2	5		3	2		_
8030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH		5				1				1	1		2				_
8030080	SIGNAL HEAD, LED. 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	-	2	 		-		***************************************				2	_					-
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8030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH		17	2	1]			1		2	4 1			4		L
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COUNTY SHEETS NO.

COOK 90 6

CONTRACT NO. 60741

SECTION

2014-043TS

ILLINOIS

SUMMARY OF QUANTITIES

(SHEET 2 OF 5)

TO STA.

SHEET NO. OF SHEETS STA.

SCALE:

181/2183 PTB 1

USER NAME . USERNAME.

PLOT SCALE = 12.3000 '/ in.

PLOT DATE . 7/9/2014

DESIGNED -

DRAWN -

CHECKED -

DATE

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88030110	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	45	11	3		1		2	1	2	4	3 2	2 4	8		4

88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8	2	7			4	1	1		\Box					
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88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5	1	+			+	1		1	+	十	1			+
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88030230	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	3				_	-		╫	+	+		+		\vdash	+
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88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	21	8	2	-		-	1		1	-	2	3	1		2
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88030250	SIGNAL HEAD, LED. 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	***************************************		***************************************	A PARTICIPATION OF THE PARTICI					***************************************		1				
			***************************************													***************************************	
88030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2								2						
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88030320	SIGNAL HEAD, LED. 3-FACE, 1-3 SECTION, 2-5 SECTION BRACKET MOUNTED	EACH	3							\mathbf{H}	\top			1	1		1
				21.00 A A A A A A A A A A A A A A A A A A	+			+			+	11		+			
88030330	SIGNAL HEAD, LED. 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	4	***************************************	\dashv			1-1		++		+	2 1	1	1	-	
0000000	SIGNAL READ, LEB, 3-FACE, 2-3 SECTION, 1-3 SECTION BNACKET MODIVIED	4704	<u> </u>			-		-		+	+	+-					
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88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2					\dashv		\dashv	1	-	\vdash	-			\blacksquare
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88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	15	10							4 1						
			****		***************************************												
88055165	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2		***************************************	***************************************					1 1						
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88055170	OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	3	2							1						11
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88085100	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	L.	-	***************************************				++	+			+			+
88055190	DE LICACCI ENDUMANMED SIUNAC READ, CED, ITTACE, STREETIUM, DRACKET MOUNTED	CACI	-	water and the second	\dashv			1	\dashv	+-	+	+	\vdash		-		44
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CONSTRUCTION CODE

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88055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	7	3	-					1	2 1					
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88055350	OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		***************************************	-				2	1	$\vdash \vdash$			***	\dashv
88060110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	8	8	***************************************										***************************************	

88060130	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED	EACH	2	1		-					1	\vdash				$\frac{1}{1}$
88060150	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1	***************************************							1					
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88060180	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	2	2			***************************************					$igwdaper{1}{}$				
88060405	COMBINATION SIGNAL HEAD, LED, 3- FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1	1						\vdash						1
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88102717	PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	60	12	4 10	2	2	4	4	4	6 4	í	2 2		2	2
88102747	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16	6	3 2	-			2			-				2

88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	113	42	4			2	8	2	8 9	8 6	6 4	4	12	4
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88500100	INDUCTIVE LOOP DETECTOR	EACH	37	1	0		4 8					10 5	5			\vdash
88800100	PEDESTRIAN PUSH-BUTTON	EACH	38	8	2	2	2	4	2	4	6	1	2 2	2	2	\prod
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89100400	ILLUMINATED SIGN, LED	EACH	Week Annual Control of	1							_					
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89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	12		1		***************************************	\blacksquare	+				+		\vdash	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	5		4					1								***************************************		
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89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	33	12	1	4	1		2	1	1	1	1	1	1 2	2 1		2 1	1	1
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X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	5	-	1		1	1			_			1	1					
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X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	38	12	2	4	1 1	1	2			1	1	1	2 ;	2 1		2 1	1	
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X8803040	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION. 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	2	-	2	_		-				-		4				_		
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x8803060	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1	_						-	****			\bot	***************************************			1		
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×8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	10	2	5			<u> </u>		_	_			_				3	$oxed{igspace}$	
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X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	10	7	1		_			_ _		-		_	_	_		2		
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X8803088	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	10	5	3			_										2		
X8803090	SIGNAL HEAD, LED. 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1	1	***************************************															

X8803210	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	6	5	1			_	-										$ldsymbol{\bot}$	
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X8803910	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	And Andreas	_				_		***************************************		_						1	igspace	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 5 OF 5)

SCALE: SHEET NO. OF SHEETS STA.

TO STA.

CONSTRUCTION CODE

F.A. SECTION COUNTY TOTAL SHEETS NO.

2014-043TS COOK 90 9

CONTRACT NO. 60Y41

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TOTAL UNIT QUANTITY TRAFFIC SIGNAL CODE 0021 ITEM NO. URBAN EACH 47 18 5 11 X8880015 PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED 88055720

E NAME. F projitalizios pio 160-mi sinch 1007 var-varinovit-882 South (

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

(SHEET 5 OF 5)

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



TRAFFIC SIGNAL LEGEND ITEM REMOVAL EXISTING PROPOSED ITEM REMOVAL EXISTING PROPOSED ITEM REMOVAL EXISTING PROPOSED ELECTRIC CABLE IN CONDUIT, TRACER, R 3 CONTROLLER CABINET \times EMERGENCY VEHICLE LIGHT DETECTOR • \boxtimes ightharpoonupNO. 14 1/C. UNLESS NOTED OTHERWISE Ro-0 R►∢R RAILROAD CONTROL CABINET CONFIRMATION BEACON 0-0 --COAXIAL CABLE ECC COMMUNICATIONS CABINET CC CC R HANDHOLE MASTER CONTROLLER EMC MC R VENDOR CABLE FOR CAMERA Н Н HEAVY DUTY HANDHOLE MASTER MASTER CONTROLLER EMMC MMC R COPPER INTERCONNECT CABLE, EUPS UPS UPS Δ UNINTERRUPTABLE POWER SUPPLY DOUBLE HANDHOLE -(6)- NO. 18 3 PAIR TWISTED, SHIELDED R 0 JUNCTION BOX SERVICE INSTALLATION. -D-R -0-FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT UNDERGROUND CONDUIT. NO. 62.5/125, MM12F TELEPHONE CONNECTION GALVANIZED STEEL (UC) T P T FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT -(24F)-TEMPORARY SPAN WIRE, TETHER WIRE, NO. 62.5/125, MM12F SM12F STEEL MAST ARM ASSEMBLY AND POLE AND CABLE FIBER OPTIC CABLE ALUMINUM MAST ARM ASSEMBLY AND POLE COMMON TRENCH CT -(36F)-NO. 62.5/125, MM12F SM24F COILABLE NONMETALLIC CONDUIT (EMPTY) CNC STEEL COMBINATION MAST ARM 0-X-ASSEMBLY AND POLE WITH LUMINAIRE GROUND ROD AT (C) CONTROLLER, SYSTEM ITEM S (H) HANDHOLE, (P) FOST, (M) MAST ARM, STEEL COMBINATION MAST ARM OR (S) SERVICE IP INTERSECTION ITEM PTZb ASSEMBLY AND POLE WITH PTZ CAMERA CONTROLLER CABINET AND REMOVE ITEM 0 \bowtie FOUNDATION TO BE REMOVED RELOCATE ITEM TEMPORARY WOOD POLE (CLASS 5 OR \otimes • R BETTER) 45 FOOT (13.7m) MINIMUM STEEL MAST ARM POLE AND ABANDON ITEM FOUNDATION TO BE REMOVED (R) R GUY WIRE 12" (300mm) TRAFFIC SIGNAL SECTION ALUMINUM MAST ARM POLE AND SIGNAL HEAD -FOUNDATION TO BE REMOVED (R) 12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE SIGNAL HEAD CONSTRUCTION STAGES STEEL COMBINATION MAST ARM ASSEMBLY (NUMBERS INDICATE THE CONSTRUCTION STAGE) AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED SIGNAL HEAD WITH BACKPLATE +CR $+\triangleright$ + SIGNAL POST AND FOUNDATION G ◆Y ◆G RPF SIGNAL HEAD OPTICALLY PROGRAMMED —**►**"P" SIGNAL FACE TO BE REMOVED FLASHER INSTALLATION 0-0"F" →'F' INTERSECTION & SAMPLING (S DENOTES SOLAR POWER) IS IS (SYSTEM) DETECTOR R Y G ←Y ←G PEDESTRIAN SIGNAL HEAD -0 -[5] SAMPLING (SYSTEM) DETECTOR SIGNAL FACE WITH BACKPLATE. PEDESTRIAN PUSHBUTTON DETECTOR 0 "P" INDICATES PROGRAMMED HEAD LQ Q QUEUE DETECTOR ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR @ APS @APS APS "RB" INDICATES REFLECTIVE BACKPLATE PREFORMED QUEUE DETECTOR TLLUMINATED SIGN 9 1 3 "NO LEFT TURN" 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED INTERSECTION AND SAMPLING WALK/DON'T WALK SYMBOL (SYSTEM) DETECTOR ILLUMINATED SIGN 1 3 \odot "NO RIGHT TURN" PS 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED SAMPLING (SYSTEM) DETECTOR INTERNATIONAL SYMBOL, OUTLINED DETECTOR LOOP, TYPE I 12" (300mm) PEDESTRIAN SIGNAL HEAD RAILROAD SYMBOLS INTERNATIONAL SYMBOL, SOLID PREFORMED DETECTOR LOOP PEDESTRIAN SIGNAL HEAD, INTERNATIONAL MICROWAVE VEHICLE SENSOR [M] M M SYMBOL, WITH COUNTDOWN TIMER EXISTING PROPOSED (V) V VIDEO DETECTION CAMERA ₽ P FAILROAD CONTROL CABINET R►≺R RADIO INTERCONNECT 111110 VIDEO DETECTION ZONE FAILROAD CANTILEYER MAST ARM XOX X X XOX X R ERR ERR RR RADIO REPEATER FLASHING SIGNAL $\times \circ \times$ YOY PAN. TILT, ZOOM CAMERA PTZ PTZ PTZ DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, CROSSING GATE X0X> XOX-ALL DETECTOR LOOP CABLE TO BE SHIELDED R(W) (W) (W) WIRELESS DETECTOR SENSOR GROUND CABLE IN CONDUIT 75 >< ---(1)---WIRELESS ACCESS POINT NO. 6 SOLID COPPER (GREEN) USER NAME = _USERNAME_ DESIGNED -REVISED DW SECTION COUNTY

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. SHEET NO. 1 OF 7 SHEETS STA.

2014-043TS

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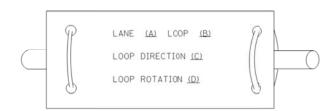
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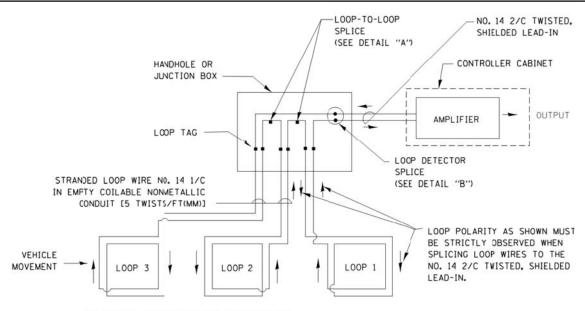
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

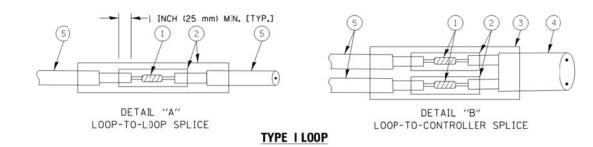


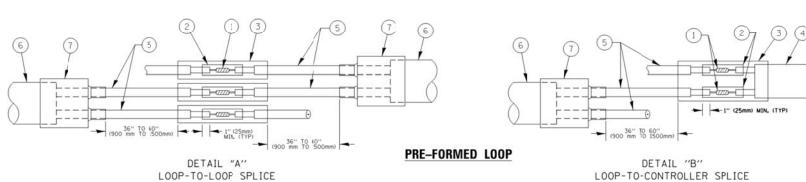
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
 THE SAW-CUT DEPTH SHALL BE 10 THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

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

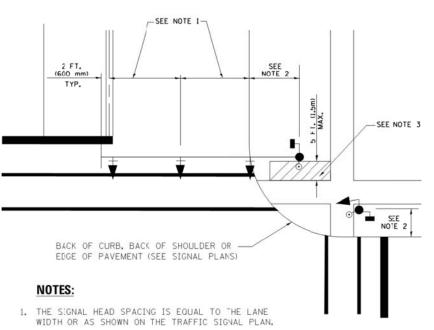
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PLOT DATE = 7/9/2014	DATE	_		REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT (ONE – STANDARD	TRAFFIC SIGNAL	DESIGN DETAILS
SCALE: N.T.S.	SHEET NO. 2 OF 7	SHEETS STA.	TO STA.

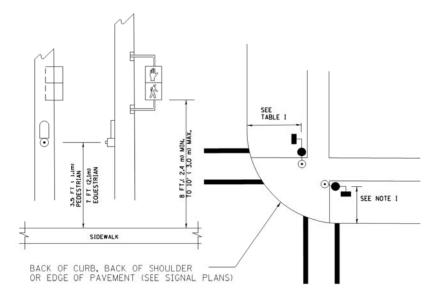
TS-2

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



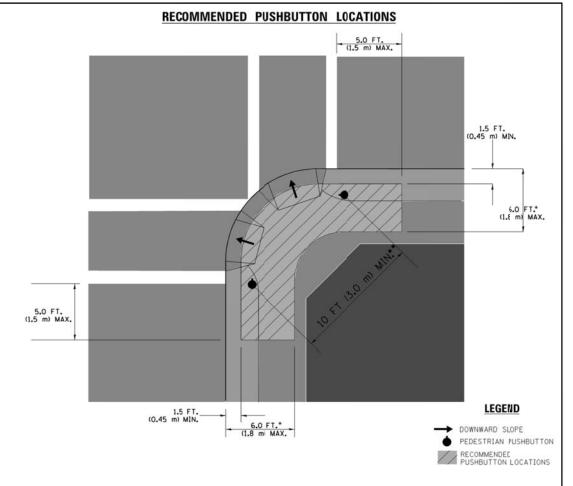
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE CONCRETE SIDEWALK. ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO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

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, CR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- .. WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS. THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

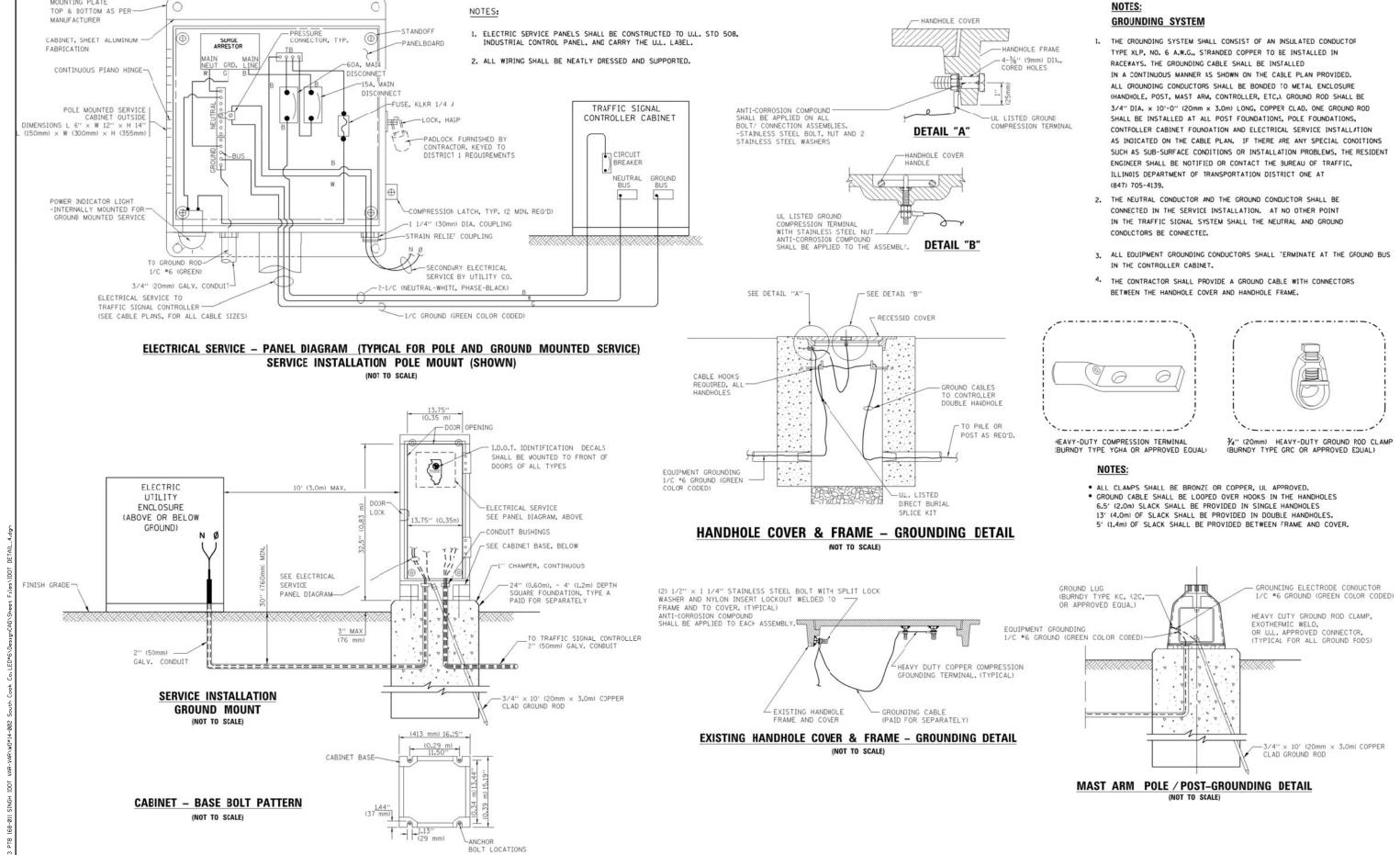
USER NAME = _USERNAME_	DESIGNED	-	DW	REVISED	-
	DRAWN	-	CC	REVISED	-
PLOT SCALE = 20.0000 ' / in.	CHECKED	-	JDH	REVISED	-
PLOT DATE = 7/9/2014	DATE	-		REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

						F.A. RTE.	SECTION	COUNTY
DISTRICT (UNE – STAN	IDAKD I	RAFFIC	SIGNAL	DESIGN DETAILS		2014-043TS	СООК
								CONTRA
SCALE: N.T.S.	SHEET NO. 3	OF 7 S	HEETS	STA.	TO STA.		ILLINOIS	•

61 13

MOUNTING PLATE



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SECTION

2014-043TS

DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 4 OF 7 SHEETS STA.

SCALE: N.T.S.

COUNTY

COOK

61 14

CONTRACT NO. 60Y41

DESIGNED

CHECKED

DRAWN

DATE

DW

CC

USER NAME = _USERNAME.

PLOT DATE = 7/9/2014

LOT SCALE = 20.0000 '/ in.

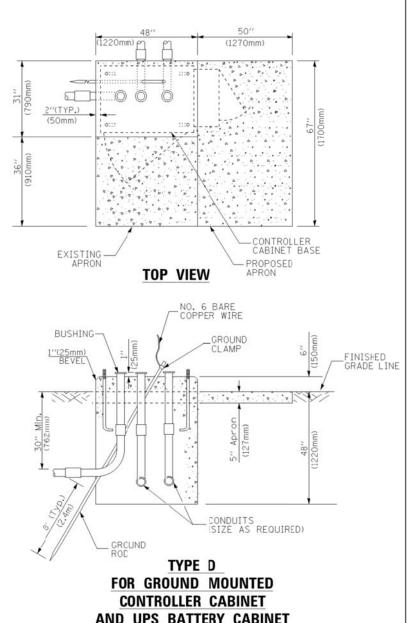
REVISED

REVISED

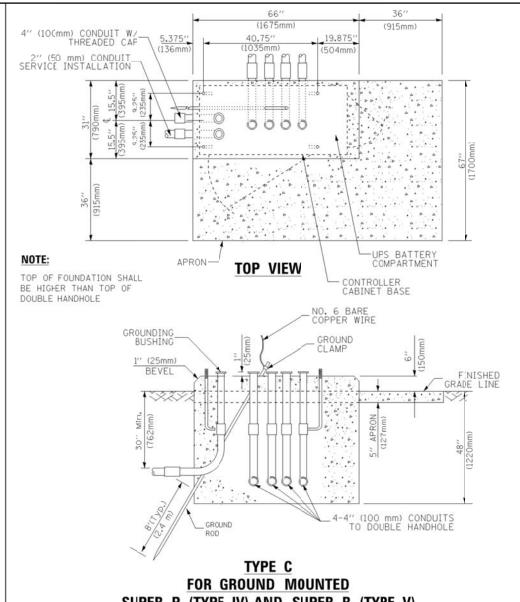
REVISED

REVISED

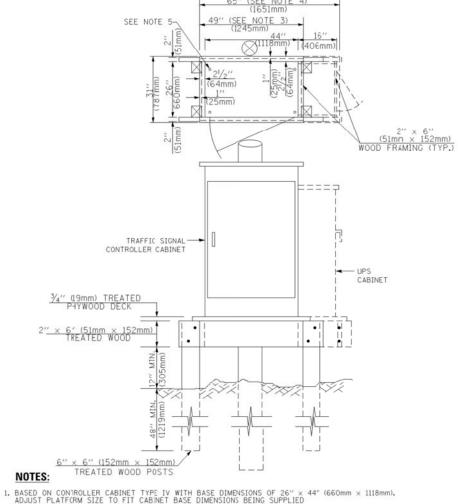




AND UPS BATTERY CABINET



SUPER P (TYPE IV) AND SUPER R (TYPE V) **CONTROLLER CABINETS**



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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

VERTICAL	CABLE	LENGTH
----------	-------	--------

FOUN	DAT	ION	DEPT4			
TYPE	A	- Signal Post	4'-0''	(1.2m)		
TYPE	C	- CONTROLLER W/ UPS	4'-0"	(1.2m)		
TYPE	D	- CONTROLLER	4'-0" (1.2m			
GROUN	ND	INSTALLATION, MOUNT, - SQUARE	4'-0"	(1.2m)		

DEPTH OF FOUNDATION

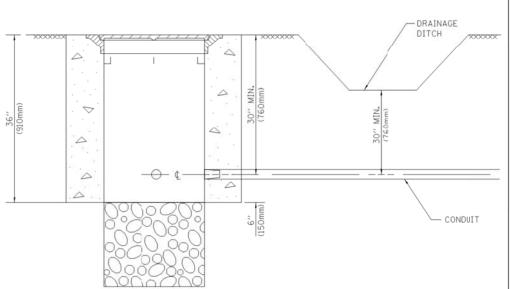
Wast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36"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

NOTES:

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

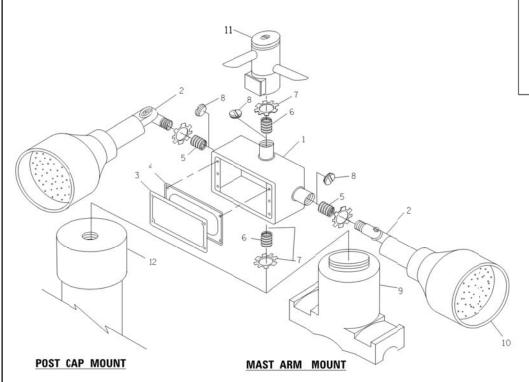
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			F.A.	SECTION	COUNTY TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	DISTRICT ONE – STANDARD TRAFFIC SIGNAL DESIGN DETAILS		2014-043TS	COOK 61 15
PLOT SCALE = 20.0000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 5 OF 7 SHEETS STA. TO STA.		ILLINOIS	



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

HANDHOLE WITH MINIMUM CONDUIT DEPTH



(1675mm) (915mm) 19.875" (136mm) (1035mm) (504mm) -CONTROLLER CABINET BASE TOP VIEW NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING -_GROUND CLAMP / ANCHOR BOLTS

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

-EXISTING CONDUITS

EXISTING GROUND ROD

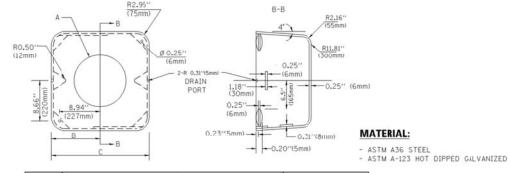
(300mm)

(300mm)

(NOT TO SCALE)

ITEM	NO.	IDENTIFICATION
1	OU	TLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LA	MP HOLDER AND COVER
3	OU	TLET BOX COVER
4	RU	BBER COVER GASKET
5	REI	DUCING BUSHING
6	3/4'	'(19 mm) CLOSE NIPPLE
7	3/4'	'(19 mm) LOCKNUT
. 8	3/4'	'(19 mm) HOLE PLUG
9	SAI	DDLE BRACKET - GALV.
10	6	WATT PAR 38 LED FLOOD LAMP
11	DE.	TECTOR UNIT
12	PO	ST CAP [18 FT. (5.4 m) POST MIN.]

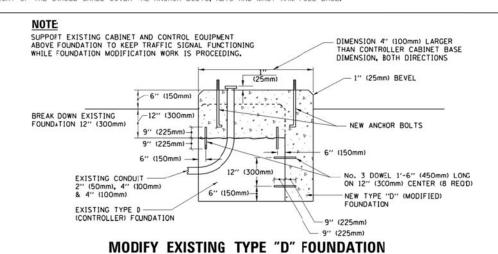
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION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

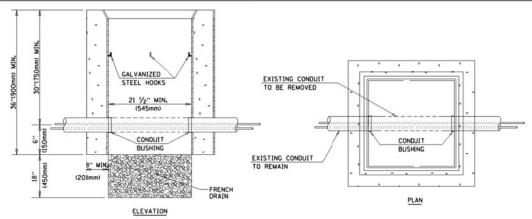


Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

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





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

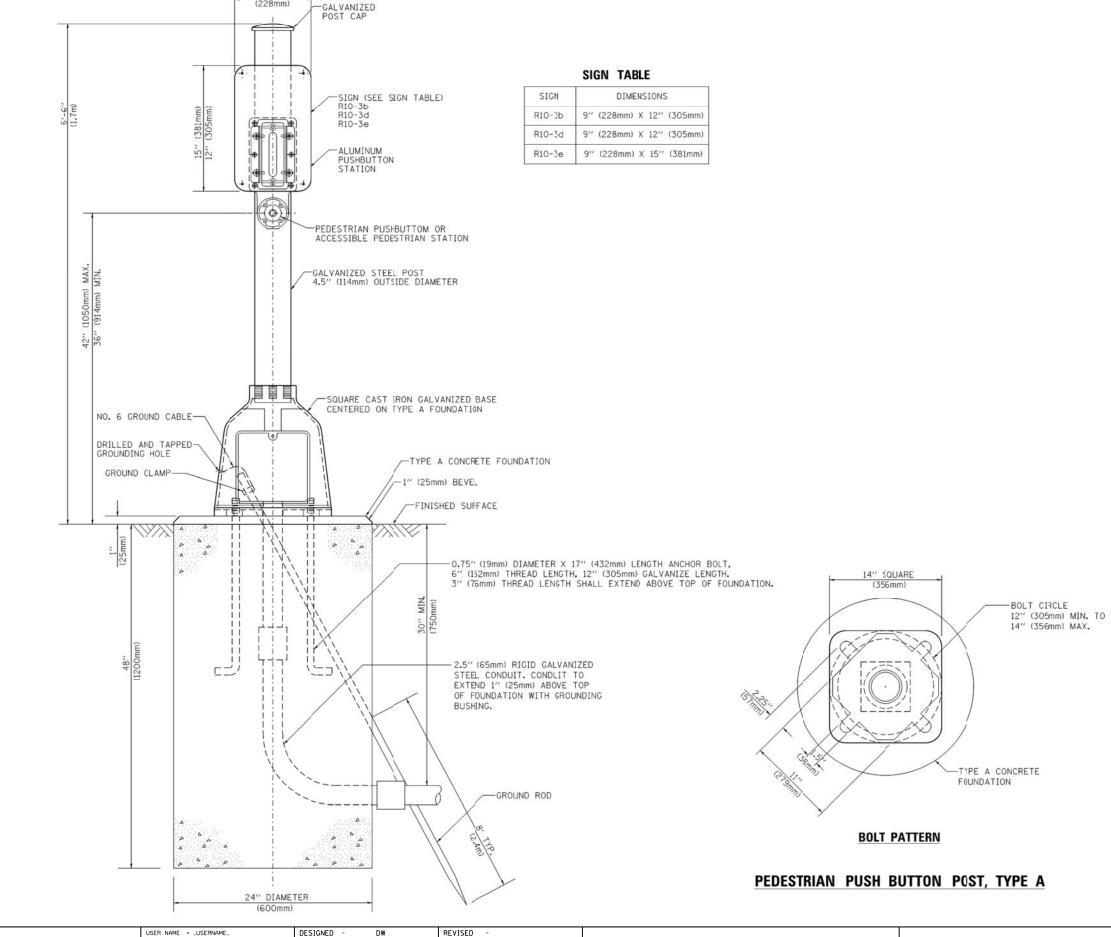
HANDHOLE TO INTERCEPT EXISTING CONDUIT

USER NAME = _USERNAME_	DESIGNED	-	DW	REVISED -	
	DRAWN	-	CC	REVISED -	
PLOT SCALE = 20.0000 ft / in.	CHECKED	-	JDH	REVISED -	
PLOT DATE = 7/9/2014	DATE	-		REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS SCALE: N.T.S. SHEET NO. 6 OF 7 SHEETS STA.

SECTION COUNTY 2014-043TS COOK 61 16 CONTRACT NO. 60Y41



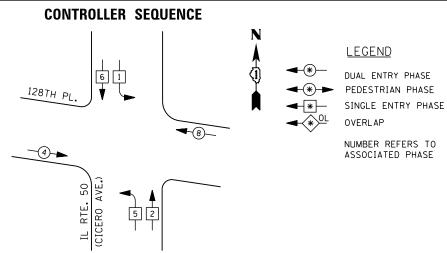
TS-7

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

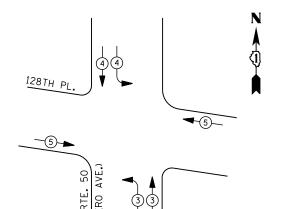
DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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





PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY	VEHICLE	PREEMPTO	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			—

TRAFFIC SIGNAL INSTALLATION											
	ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	16	1 35	1 7	0.50	136						
(YELLOW)	16	1 35	25	0.25	100						
(GREEN)	16	1 35	15	0.25	60						
ARROW		1 35	12	0.10							
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	100	100	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
				TOTAL =	396						

BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN

708-235-2692

PHONE

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

ENERGY COSTS-

ENERGY SUPPLY -

I. D. O. T.

INTERCONNECT TO INTERSECTION AND-SAMPLING (SYSTEM) DETECTORS CABLE R Y Y C 128TH PL. (F) NO. 6-GREEN GREEN IL. RTE. 50 (CICERO AVE.) -NO. 6 GREEN -INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

CABLE PLAN

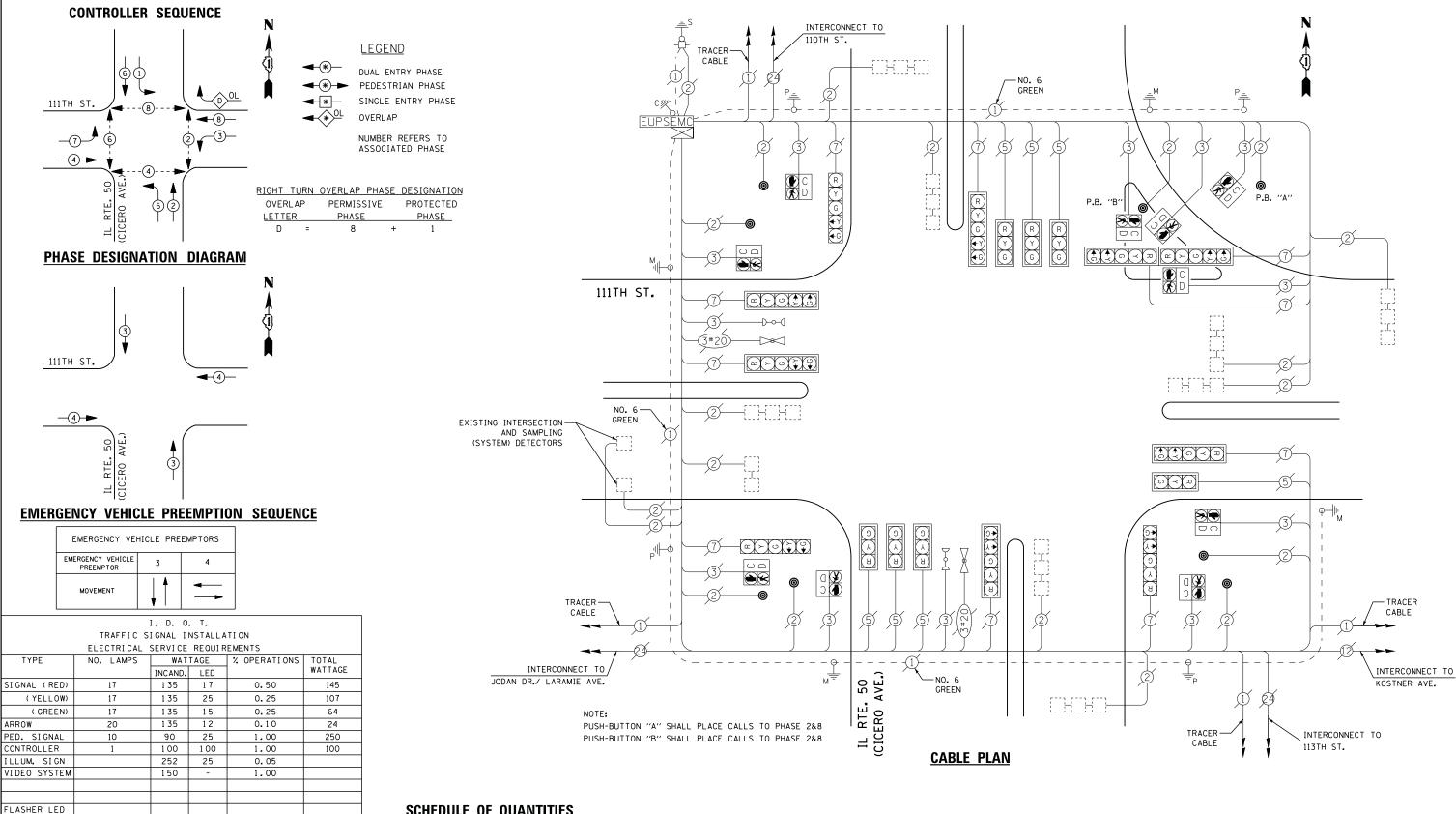
SCHEDULE OF QUANTITIES

QUANTITY UNIT ITEM

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

TS #125 ALSIP

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			IL ROUT	TE 50 (CIO	CERO AVEN	NUE) AT 128	BTH PLACE	F.A. RTE.	SECTION	COUNTY	TOTAL S	SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHI	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM					11.12	2014-043TS	соок	61	18
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	EPARTMENT OF TRANSPORTATION AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		N SEQUENCE			CONTRAC	T NO. 60	JY41			
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS			



ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

690

ENERGY SUPPLY -CONTACT ILYAS MOHIUDDIN PHONE

708-235-2692 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PEDESTRIAN PUSH-BUTTON, NON-LATCHING

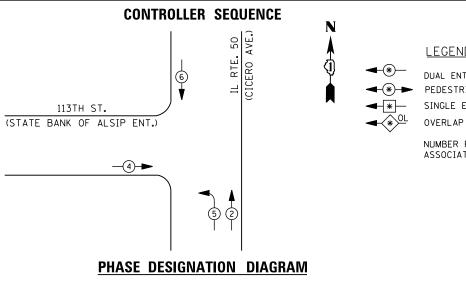
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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 PUSH-BUTTON

> TS #2510 AI STP

							ALSII
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		IL ROUTE 50 (CICERO AVENUE) AT 111TH STREET	F.A. SECTION	COUNTY TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2014-043TS	COOK 61 19
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS	



I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE % OPERATIONS TOTAL WATTAGE NO. LAMPS INCAND. LED 102 SIGNAL (RED) 12 1 35 17 0.50 (YELLOW) 1 35 25 0.25 75 12 (GREEN) 12 1 35 15 0.25 45 ARROW 1 35 12 0.10 5 PED. SIGNAL 90 25 1.00 CONTROLLER 100 100 1.00 100 ILLUM. SIGN 252 25 0.05 VIDEO SYSTEM 1.00 150 FLASHER LED

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

327

ENERGY SUPPLY -

CONTACT ILYAS MOHIUDDIN PHONE 708-235-2692

COMMONWEALTH EDISON

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

CABLE TO 111TH ST. -{::}{::} RYG -NO. 6 113TH ST. GREEN (STATE BANK OF ALSIP ENT.) GREEN . 50 AVE.) GREEN IL RTE. (CICERO A TRACER CABLE INTERCONNECT TO 115TH ST.

CABLE PLAN

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

INTERCONNECT

TRACER

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
4	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

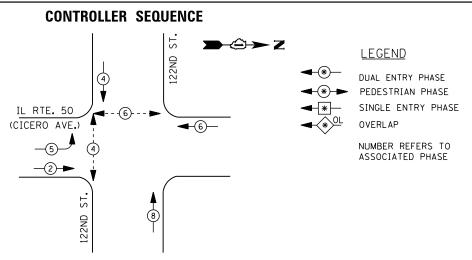
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH CONTROLLER AND CABINET (COMPLETE)

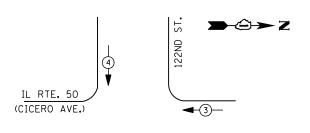
TS #2515 ALSIP

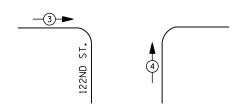
DRAWN - CC REVISED - PLOT SCALE = 20.000 / In. PLOT DATE = 7/9/2014 DATE - REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		II DOUT	r re (clerne A	\/ENIIIE\ A	T 442TH C	TDEET (CTATE	E DANK OF ALCID	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET
PLOT SCALE = 20.0000 // In. CHECKED - JDH REVISED - DEPARTMENT OF TRANSPORTATION CONTRACT NO. 60Y4		DRAWN -	СС	REVISED -	STATE OF ILLINOIS								2014-043TS	соок	61	20
PLOT DATE = 7/9/2014 DATE - REVISED - SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. ILLINOIS	PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION			,	,					CONTRA	T NO.	60Y41
	PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS			





PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	+	↓ ↑

	TRAFFIC S	I GNAL I	NSTALLA	TION										
	TYPE NO. LAMPS WATTAGE % OPERATIONS TOTAL													
TYPE	NO. LAMPS	% OPERATIONS	TOTAL											
		INCAND.	LED		WATTAGE									
SIGNAL (RED)	14	1 35	1 7	0.50	119									
(YELLOW)	14	1 35	25	0.25	88									
(GREEN)	14	1 35	15	0.25	53									
ARROW	4	1 35	12	0.10	5									
PED. SIGNAL	4	90	25	1.00	100									
CONTROLLER	1	100	100	1.00	100									
ILLUM. SIGN		252	25	0.05										
VIDEO SYSTEM		150	-	1.00										
FLASHER LED														
				TOTAL =	465									

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT ILYAS MOHIUDDIN 708-235-2692 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TRACER -(c)\(\sigma\)\(\sigma\) INTERCONNECT TO 123RD ST. - NO. 6 NOTE: GREEN PUSH-BUTTON "B" SHALL PLACE CALLS TO PHASE 4 AND 6. UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER **CABLE PLAN**

ST.

GREEN

≫ •

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 EACH PEDESTRIAN PUSH-BUTTON EACH

TS #2555

→②→ Z

GREEN

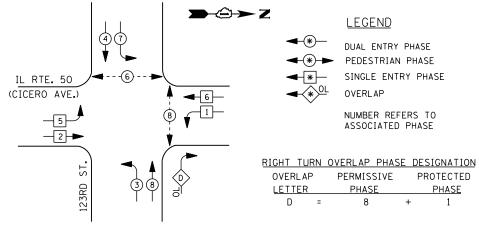
CABLE

INTERCONNECT TO 120TH ST.

COMMONWEALTH ED	ISON						ALSIP
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		IL ROUTE 50 (CICERO AVENUE) AT 122ND STREET	F.A. SECTION	COUNTY TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2014-043TS	COOK 61 21
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS	

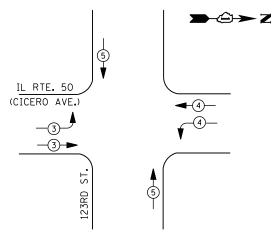
IL RTE. 50 (CICERO AVE.)

CABLE



PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENO	Y VEHICLI	E PREEMPTOR	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	_	—	↓ ↑

		I. D. O	. T.										
	TRAFFIC S	I GNAL I	NSTALLA	TION									
ELECTRICAL SERVICE REQUIREMENTS													
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL								
		INCAND.	LED		WATTAGE								
SIGNAL (RED)	18	1 35	1 7	0.50	153								
(YELLOW)	18	1 35	25	0.25	113								
(GREEN)	18	1 35	15	0.25	68								
ARROW	12	1 35	12	0.10	15								
PED. SIGNAL	4	90	25	1.00	100								
CONTROLLER	1	100	100	1.00	100								
ILLUM. SIGN		252	25	0.05									
VIDEO SYSTEM		150	-	1.00									
FLASHER LED													
				TOTAL =	549								
1													

BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN

708-235-2692

PHONE

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

PHASE

8

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

- TRACER CABLE

INTERCONNECT TO 122ND ST.

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

EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

> TS #2560 ALSIP

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			IL ROUT	E 50 (CIC	CERO AVEN	IUE) AT 12	23RD STREET	F.A.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCH					DESIGNATION DIAGRAM		2014-043TS	соок	61	22
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION			ERGENCY		PREEMIPTIC	ON SEQUENCE			CONTRAC	T NO. 6	OY41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS	'		

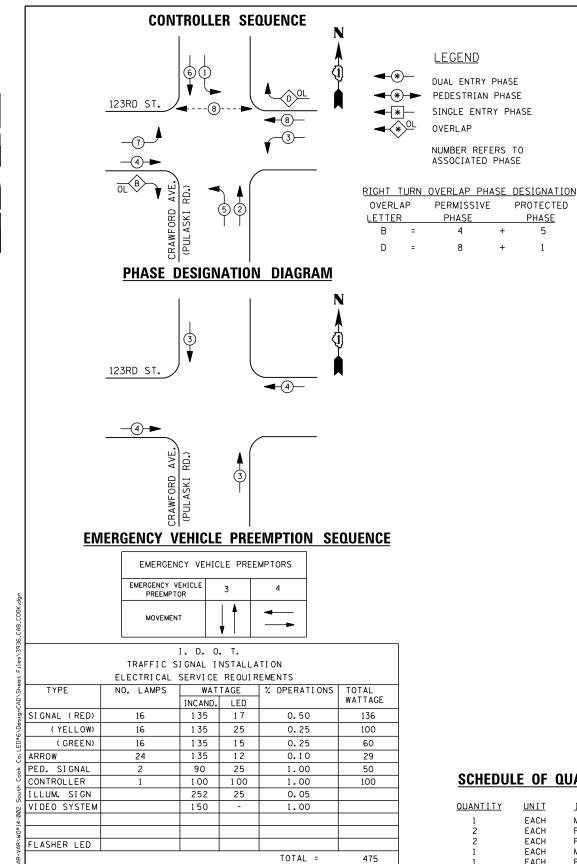
123RD **₹** D **>** C IL RTE. 50 (CICERO AVE.) NO. 6-GREEN GREEN Mille R 9+ Y A+ TRACER-CABLE INTERCONNECT TO 127TH ST. -NO. 6 GREEN NOTE: PUSH-BUTTON "C" SHALL PLACE CALLS TO PHASE 6 AND 8.

ST.

CABLE PLAN

ENERGY COSTS-

ENERGY SUPPLY -



BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN

708-235-2692

PHONE

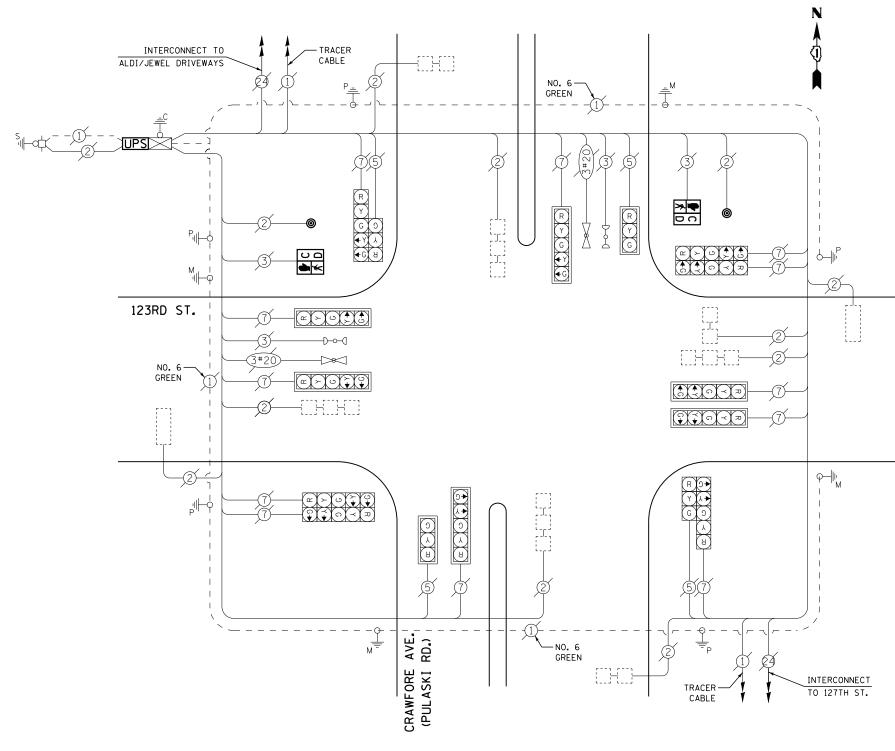
201 WEST CENTER COURT

COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

ENERGY COSTS-

ENERGY SUPPLY -



SCHEDULE OF QUANTITIES

PHASE

PHASE

5

QUANTITY <u>UNIT</u> <u>ITEM</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

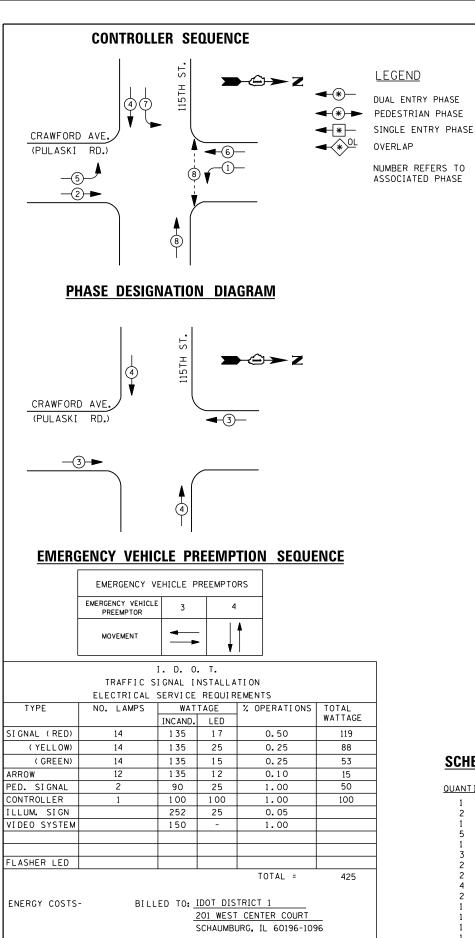
2 EACH PEDESTRIAN SIGNAL HEAD

CABLE PLAN

2 EACH PEDESTRIAN PUSH-BUTTONS

TS #3936 ALSIP

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			123RD STR	EET AT C	RAWFORD	AVENUE (P	JLASKI ROAD)	F.A.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHE					SIGNATION DIAGRAM	1012.	2014-043TS	соок	61	23
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMI	ERGENCY	VEHICLE F	REEMPTION	SEQUENCE			CONTRAC	T NO. 6	0Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS			

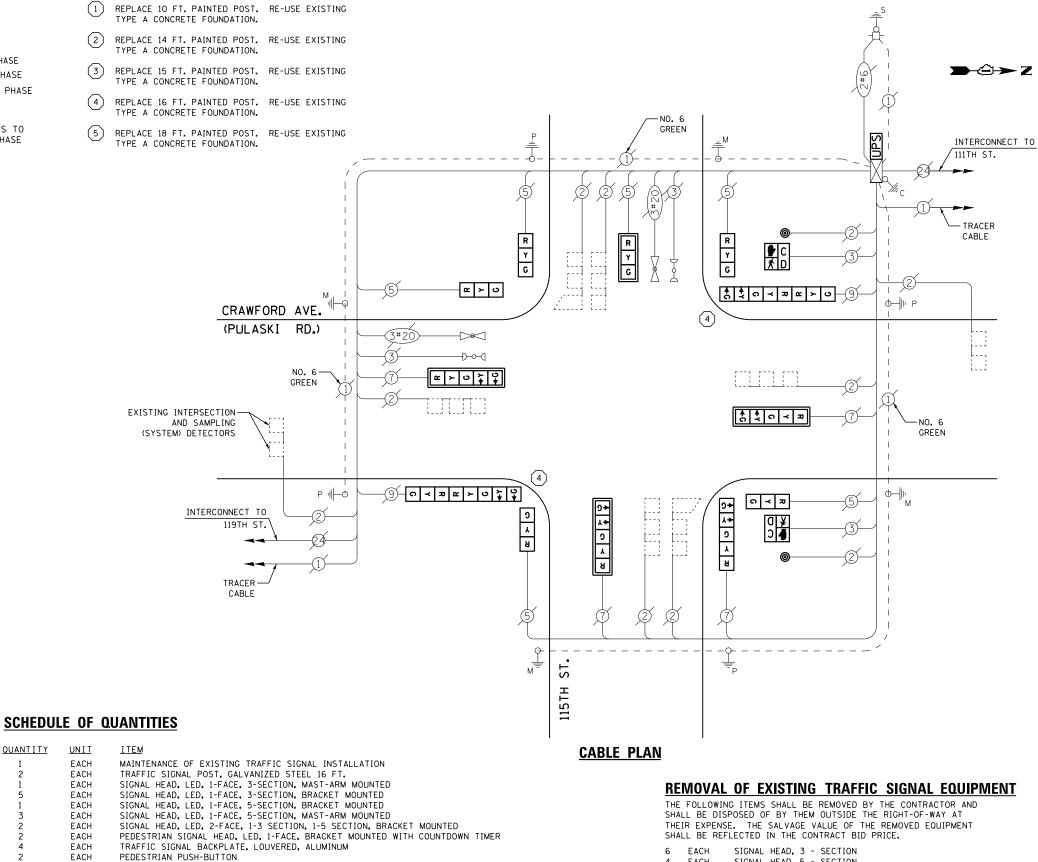


CONTACT ILYAS MOHIUDDIN

708-235-2692

COMMONWEALTH EDISON

ENERGY SUPPLY -



SCALE: N.T.S.

EACH EACH FACH EACH FACH FACH MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH FACH REMOVE AND REPLACE ANCHOR BOLTS

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

6	EACH	SIGNAL	HEAD,	3	-	SECTIO	N	
4	EACH	SIGNAL	HEAD,	5	-	SECTIO	N	
2	EACH	SIGNAL	HEAD,	2	-	FACE,	1-3	SE

ECTION, 1-5 SECTION TRAFFIC SIGNAL BACKPLATE PEDESTRIAN SIGNAL HEAD EACH

EACH PEDESTRIAN PUSH-BUTTON SIGNAL POST EACH

TS #3960 ΔΙ SΤΡ

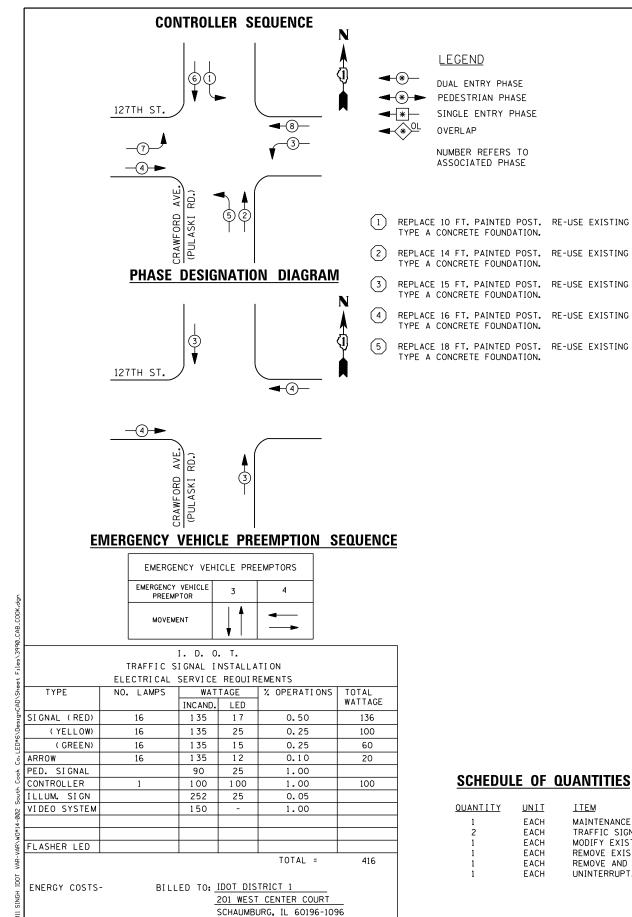
USER NAME = _USERNAME_	DESIGNED	-	DW	REVISED -	
	DRAWN	-	CC	REVISED -	
PLOT SCALE = 20.000 '/ in.	CHECKED	-	JDH	REVISED -	DEPA
PLOT DATE = 7/9/2014	DATE	-		REVISED -	

QUANTITY

EACH

STATE OF ILLINOIS PARTMENT OF TRANSPORTATION

								AL	. 311		
					ULASKI ROAD)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRA AND EMERGENCY VEHICLE PREEMPTION SEQUENCE							2014-043TS	СООК	61	24	
	AND EIVIE	NGENUT	VERILLE P	REEMPTION	SEGUENCE	_		CONTRAC	T NO. 6	OY41	
S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS				



CONTACT ILYAS MOHIUDDIN

708-235-2692

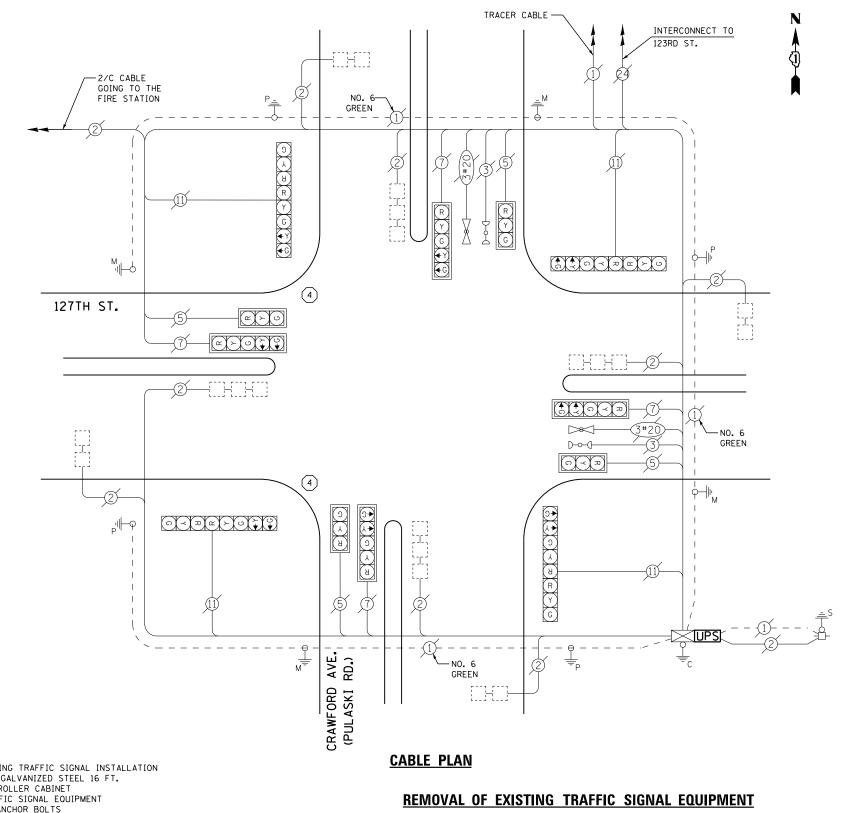
COMMONWEALTH EDISON

PHONE

ENERGY SUPPLY -

LEGEND

NUMBER REFERS TO



MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.

EACH MODIFY EXISTING CONTROLLER CABINET EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH REMOVE AND REPLACE ANCHOR BOLTS UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH

SCHEDULE OF QUANTITIES

<u>UNIT</u>

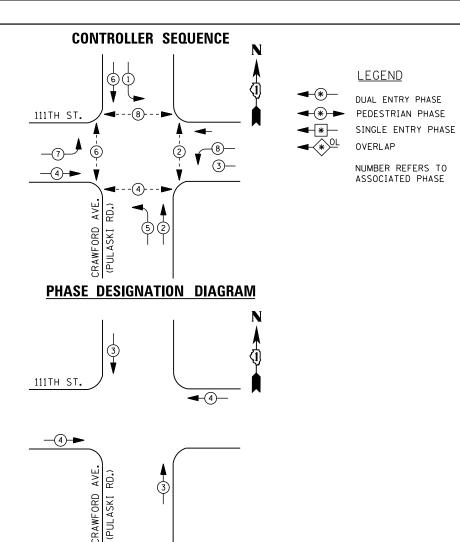
EACH

QUANTITY

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 POST

> TS #3990 ALSIP

													•	51.	
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			127TH STR	EET AT (CRAWFORD	AVENUE	(PULASKI ROAD)	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCI					DESIGNATION DIAGRAM		2014-043TS	соок	61	25
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE							CONTRA	CT NO. F	50Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS			
				<u> </u>											



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	

	TRAFFIC S	IGNAL II	NSTALLA	TION	
	ELECTRICAL	SERVICE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	12	1 35	17	0.50	102
(YELLOW)	12	1 35	25	0.25	75
(GREEN)	12	1 35	15	0.25	45
ARROW	16	1 35	12	0.10	20
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
				TOTAL =	542

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1 201 WEST CENTER COURT

ENERGY SUPPLY -CONTACT ILYAS MOHIUDDIN

PHONE 708-235-2692

SCHAUMBURG, IL 60196-1096

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

INTERCONNECT TO

115TH ST.

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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 4 EACH PEDESTRIAN PUSH-BUTTON

TS #4270

-NO. 6

GREEN

3#20

COMMONWEALTH EDISON	<u>l</u>										AL	.SIP
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			111TH STREET AT CRAW	FORD AVEN	NUE (PULASKI ROAD)	F.A. RTF	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCH					2014-043TS	соок	61 26
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHI	ICLE PREEN	IPTION SEQUENCE				T NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCHEDULE OF QUANTITIES, CA AND EMERGENCY V	SHEET NO. OF SH	EETS ST	A. TO STA.		ILLINOIS		

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

INTERCONNECT TO

M | O

111TH ST.

107TH ST.

TRACER

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P.B. "B"

G ←Y ←G

CALLING LOOPS

R V

NO. 6 — GREEN

CABLE PLAN

AVE.

CRAWFORD (PULASKI

-NO. 6 GREEN

R

Y G

CALLING LOOPS

↑ ↑ ∩ ≺ **ਸ਼**

↑ ↑ ∩ ≺ ¤

 $D \rightarrow U$

P.B._"A"

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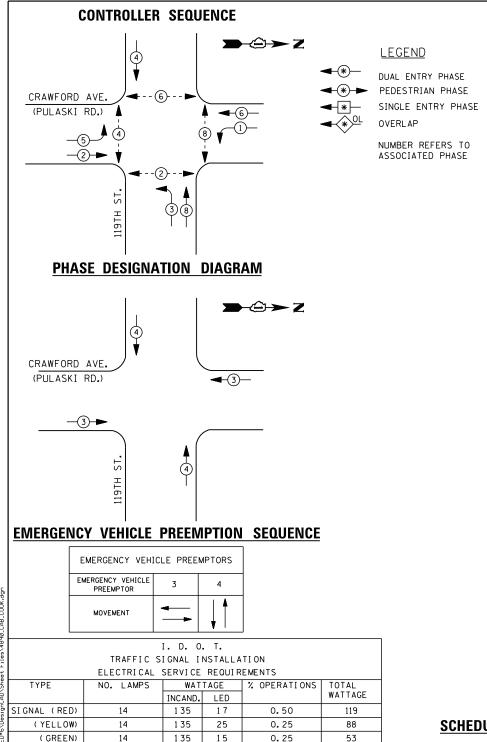
TRACER CABLE

0

A Y

CABLE

P.B. "C"



1 35

90

100

252

150

PHONE

8

12

25

100

25

BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN

708-235-2692

0.10

1.00

1.00

0.05

1.00

TOTAL =

201 WEST CENTER COURT

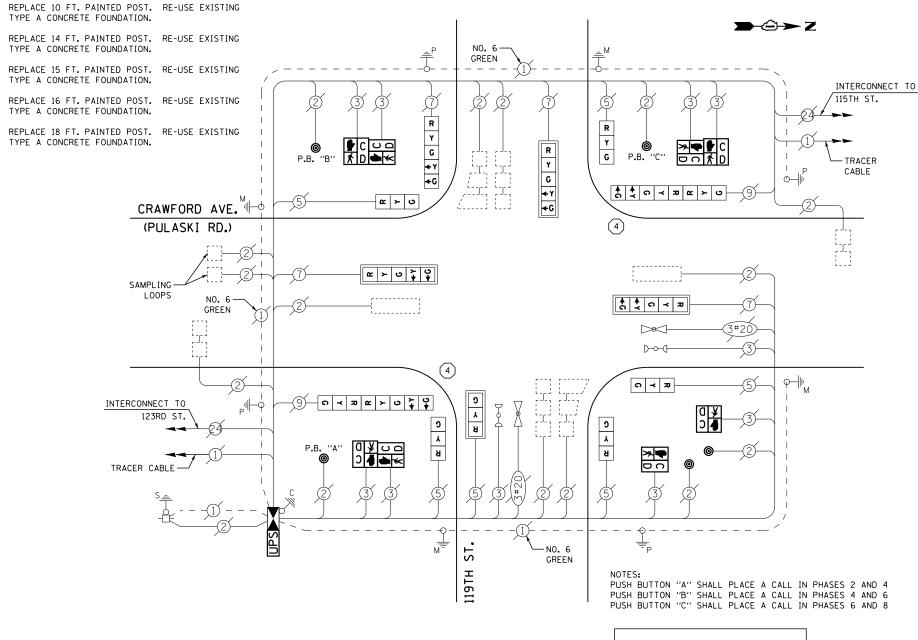
SCHAUMBURG, IL 60196-1096

15

200

100

575



SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> <u>ITEM</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRANSCEIVER - FIBER OPTIC EACH TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT. 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 EACH INDUCTIVE LOOP DETECTOR EACH RELOCATE EXISTING SIGNAL HEAD RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE AND REPLACE ANCHOR BOLTS EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT FACH EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT EACH FACH **FACH** PEDESTRIAN PUSH-BUTTON, NON-LATCHING

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

CABLE PLAN

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

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

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 PEDESTRIAN PUSH-BUTTON FACH

FACH SIGNAL POST

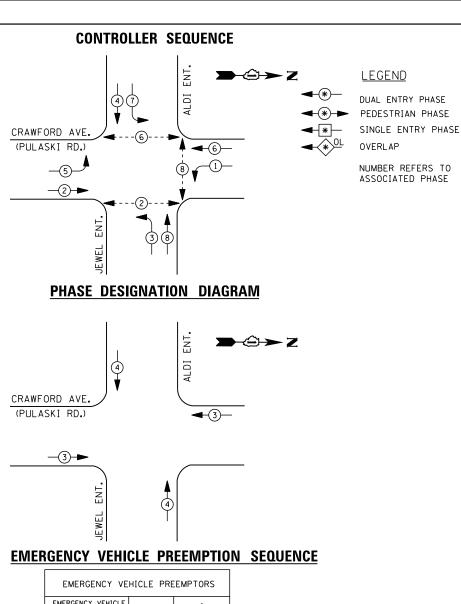
CONTROLLER AND CABINET (COMPLETE) EACH

TS #4890

COMMONWEALTH EDISON	<u>N</u>												A	LSIP	
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			119TH STREE	ET AT CR	RAWFORD	AVENUE ((PULASKI ROAD)	F.A.	SECTION	COUNTY		SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHE							2014-043TS	соок	61	27
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMER	RGENCY V	VEHICLE P	PREEMPTIO	N SEQUENCE				CT NO.	60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS			
	USER NAME = _USERNAME_ PLOT SCALE = 20.000 '/ in.	USER NAME = _USERNAME.	USER NAME = LUSERNAME.	USER NAME = _USERNAME_	USER NAME = LUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - PLOT SCALE = 20.000 // In. CHECKED - JDH REVISED - DEPARTMENT OF TRANSPORTATION	USER NAME = _USERNAME	USER NAME	USER NAME = JUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - PLOT SCALE = 20.000 // In. DESIGNED - DW REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION AND EMERGENCY	USER NAME = LUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - PLOT SCALE = 20.000 // In. CHECKED - JDH REVISED - DESIGNED - DW REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION AND EMERGENCY VEHICLE F	USER NAME = JUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - PLOT SCALE = 20.000 // In. DESIGNED - DW REVISED - DRAWN - CC REVISED - DEPARTMENT OF TRANSPORTATION TIGHT STREET AT CRAWFORD AVENUE SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE AND EMERGENCY VEHICLE PREEMPTION	USER NAME = JUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION 119TH STREET AT CRAWFORD AVENUE (PULASKI ROAD) SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	USER NAME = JUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - PLOT SCALE = 20.000 // In. DESIGNED - DW REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DEPARTMENT OF TRANSPORTATION TO TRANSPORTATION THE COMMONWEAL THE EDISON STREET AT CRAWFORD AVENUE (PULASKI ROAD) SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	USER NAME = JUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - PLOT SCALE = 20.000 // In. DEARWN - CC REVISED - DEPARTMENT OF TRANSPORTATION TO TRANSPORTA	USER NAME = JUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - PLOT SCALE = 28.0808 // In. DESIGNED - DW REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION THE STREET AT CRAWFORD AVENUE (PULASKI ROAD) SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE F.A. SECTION COUNTY SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CONTRAI	COMMONWEALTH EDISON USER NAME = JUSERNAME. DESIGNED - DW REVISED - DRAWN - CC REVISED - PLOT SCALE = 20.000 // In. CHECKED - JDH REVISED - DEPARTMENT OF TRANSPORTATION ALS IP LOSS I 19TH STREET AT CRAWFORD AVENUE (PULASKI ROAD) SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ALS IP LOSS IN 19TH STREET AT CRAWFORD AVENUE (PULASKI ROAD) SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CONTRACT NO. 6

ARROW PED. SIGNAL

CONTROLLER ILLUM. SIGN VIDEO SYSTEM FLASHER LED ENERGY COSTS-ENERGY SUPPLY -



EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	↓ ↑

	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	12	1 35	17	0.50	102
(YELLOW)	12	1 35	25	0.25	75
(GREEN)	12	1 35	15	0.25	45
ARROW	16	1 35	12	0.10	20
PED. SIGNAL	6	90	25	1.00	150
CONTROLLER	1	1 00	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
				TOTAL =	492

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

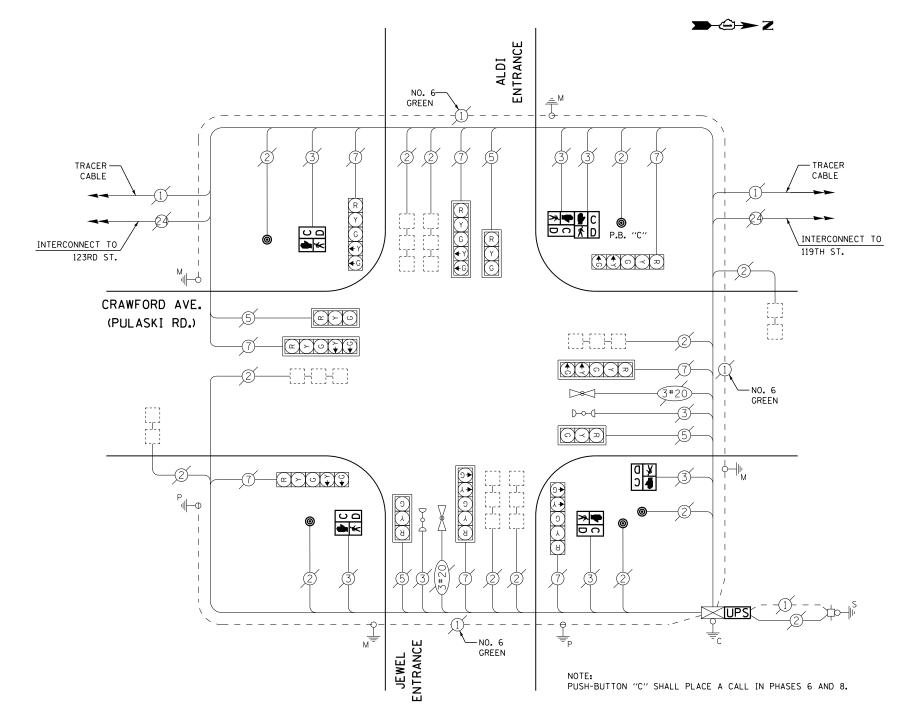
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

 CONTACT
 ILYAS MOHIUDDIN

 PHONE
 708-235-2692

 COMMONWEALTH EDISON



CABLE PLAN

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

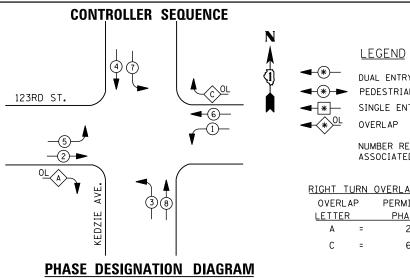
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

6 EACH PEDESTRIAN SIGNAL HEAD 5 EACH PEDESTRIAN PUSH-BUTTON

> TS #4892 ALSIP

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		CR/	WFORD AVEN	UE (PU	LASKI RO	OAD) A	T JEWEL /ALD	DI (120TH STREET)	F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHI						NATION DIAGRAM	11122	2014-043TS	СООК	61	28
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EM	ERGENC	CY VEHIC	CLE PR	REEMPTION SE	EQUENCE			CONTRAC	T NO. 6	OY41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHE	ETS	STA.	TO STA.		ILLINOIS			



	1	I. D. O.	. T.					
	TRAFFIC SI	I GNAL I	NSTALLA	TION				
ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	16	1 35	1 7	0.50	136			
(YELLOW)	16	1 35	25	0.25	100			
(GREEN)	16	1 35	15	0.25	60			
ARROW	24	1 35	12	0.10	29			
PED. SIGNAL		90	25	1.00				
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								
				TOTAL =	425			

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

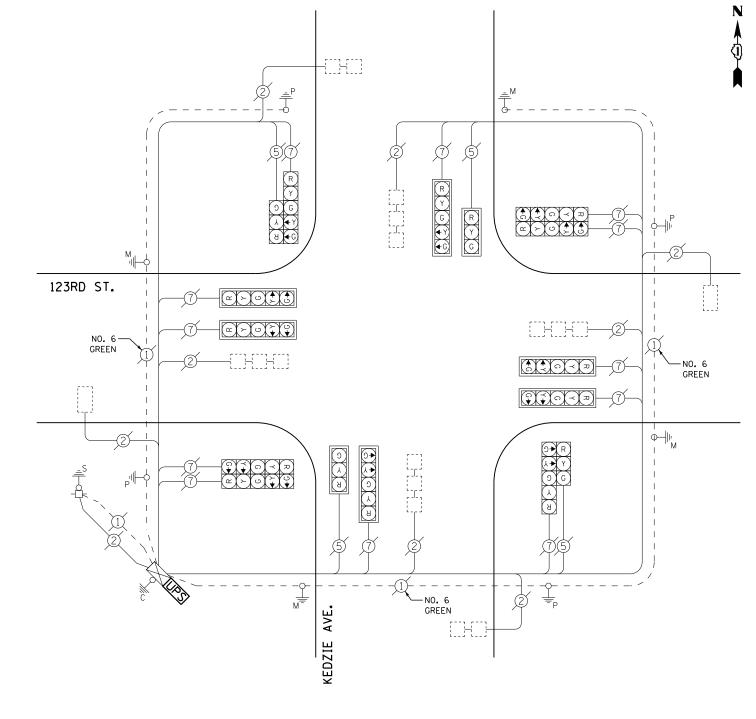
CONTACT ILYAS MOHIUDDIN PHONE 708-235-2692 COMMONWEALTH EDISON

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION PERMISSIVE PROTECTED PHASE PHASE 3



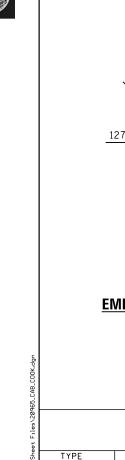
CABLE PLAN

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> <u>ITEM</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

> TS #5385 ALSIP

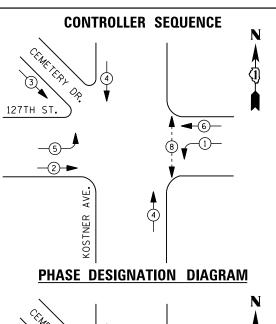
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			KEDZIE AVENUE AT	400DD CTDEFT	F.A.	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHE		N, PHASE DESIGNATION DIAGRAM	11123	2014-043TS	соок	61 29
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION							NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.		ILLINOIS	1	



FLASHER LED

ENERGY COSTS-

ENERGY SUPPLY -

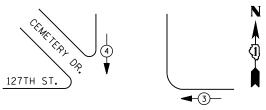


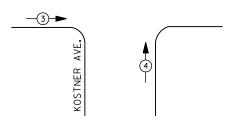
LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEI	HICLE PRE	EMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	—	↓ ↑			

I. D. O. T.

2		TRAFFIC S	I GNAL I	NSTALLA	TION		
		ELECTRICAL	SERVI CE	REQUI R	EMENTS		
9	TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL	
5			INCAND.	LED		WATTAGE	
,	SIGNAL (RED)	13	1 35	17	0.50	111	
9	(YELLOW)	13	1 35	25	0.25	82	
1	(GREEN)	13	1 35	15	0.25	49	
5	ARROW	8	1 35	12	0.10	10	
ś	PED. SIGNAL	2	90	25	1.00	50	
	CONTROLLER	1	100	1 00	1.00	100	
	ILLUM. SIGN		252	25	0.05		
,	VIDEO SYSTEM		150	-	1.00		
i		, and the second					

TOTAL =

BILLED TO: IDOT DISTRICT 1 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT ILYAS MOHIUDDIN 708-235-2692 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMEF
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

-NO. 6 GREEN 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.

CABLE PLAN

PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

KOSTNER

TS #20965 AL STP

— NO. 6 GREEN

												76.	11
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			1277	H STREET AT KO	OSTNER AVE	NUE	F.A.	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCH				SIGNATION DIAGRAM	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2014-043TS	соок	61 30
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMER	GENCY VEHICLE I	PREEMPTION	SEQUENCE			CONTRAC	T NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.		ILL INOIS		

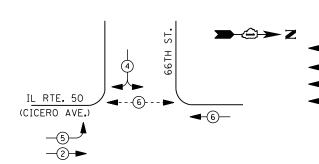
127TH ST.

GREEN

TRACER CABLE -

INTERCONNECT TO

CICERO RAMPS



PHASE DESIGNATION DIAGRAM

◄-(3)--

4

WATTAGE % OPERATIONS TOTAL

0.50

0.25

0.25

0.10

1.00

1.00

0.05

1.00

TOTAL =

201 WEST CENTER COURT

COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

WATTAGE

77

57

38

50

100

327

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS

3

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

INCAND. LED

17

25

15

12

25

100

25

BILLED TO: IDOT DISTRICT 1

CONTACT DONALD RIES

773-838-2905

PHONE

1 35

1 35

1 35

1 35

90

100

252

150

EMERGENCY VEHICLE

MOVEMENT

NO. LAMPS

10

IL RTE. 50

(CICERO AVE.)

-3 →

CONTROLLER SEQUENCE

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERI AF

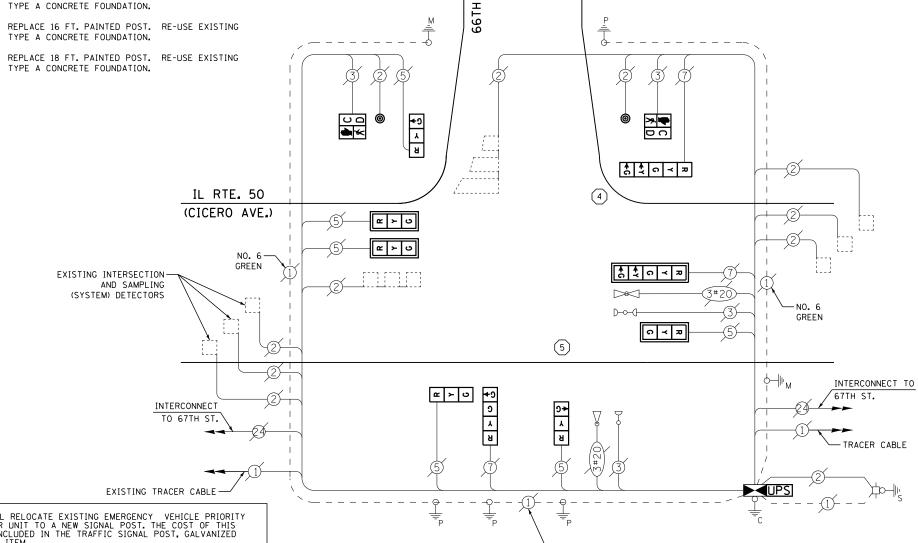
NUMBER REFERS TO ASSOCIATED PHASE

REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING



CABLE PLAN

ST

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT TO A NEW SIGNAL POST. THE COST OF THIS WORK SHALL BE INCLUDED IN THE TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT. PAY ITEM.

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO NEW CONTROLLER CABINET, THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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

SECTION

2014-043TS

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 EACH PEDESTRIAN PUSH-BUTTON

EACH SIGNAL POST

GRFFN

CONTROLLER AND CABINET (COMPLETE) EACH SIGNAL HEAD, 3 - SECTION EACH

SIGNAL HEAD, 4 - SECTION FACH EACH SIGNAL HEAD, 5 - SECTION

TS #2456 BEDFORD PARK

COOK 61 31

CONTRACT NO. 60Y41

COUNTY

→②→ Z

USER NAME = _USERNAME_	USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		IL ROUTE 50 (CICERO AVENUE) AT 66TH STREET								
		DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHE					NATION DIAGRAM			
	PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMER	GENCY	VEHICLE F	PREEMPTION SEC	DUENCE			
	PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.			

SIGNAL (RED) ARROW PED. SIGNAL CONTROLLER ILLUM. SIGN VIDEO SYSTEM FLASHER LED ENERGY COSTS-ENERGY SUPPLY -

(YELLOW)

(GREEN)

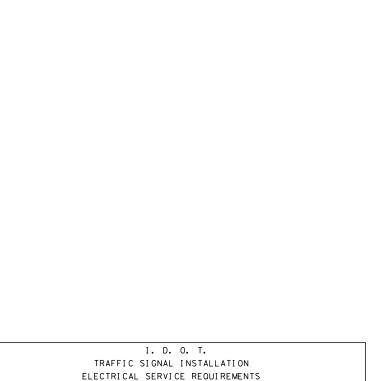


BURNHAM AVE.

ENERGY SUPPLY -

_5-

(2)



CONTROLLER SEQUENCE

PHASE DESIGNATION DIAGRAM

→૽→**Z**

1)

LEGEND

→(*) → PEDESTRIAN PHASE

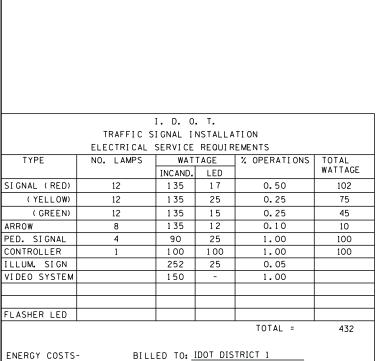
OVERLAP

DUAL ENTRY PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE



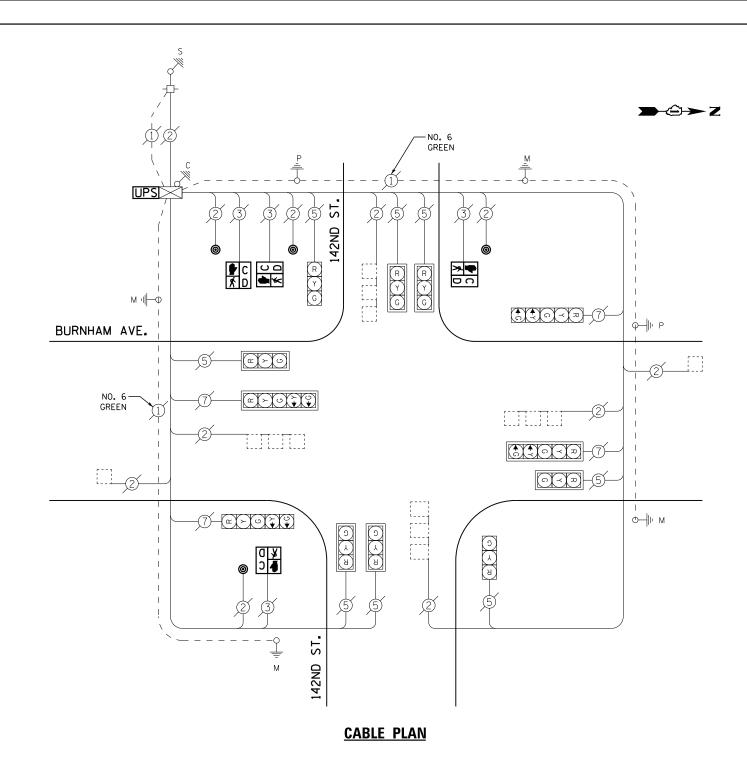
CONTACT ILYAS MOHIUDDIN

708-235-2692

PHONE

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON



SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

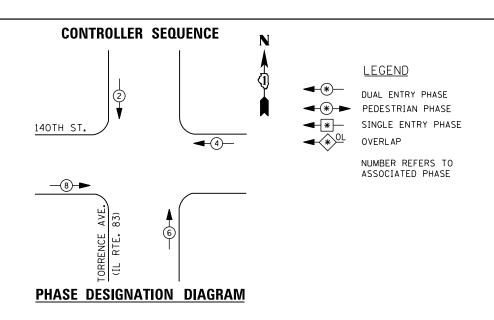
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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 4 EACH PEDESTRIAN PUSH-BUTTON

> TS #4222 BURNHAM

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			DUDA		(ENUIE A.T.	440ND 0T	DEET	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDULE	OF QUANTITIE	S. CABLE	PLAN. AN	142ND STI ID PHASE	REET DESIGNATION DIAGRAM		2014-043TS	СООК	61	32
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION			,	, ,					CONTRAC	CT NO. 6	0Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS			



		I. D. O	. T.							
	TRAFFIC S	I GNAL I	NSTALLA	TION						
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	1 7	0.50	102					
(YELLOW)	12	1 35	25	0.25	75					
(GREEN)	12	1 35	15	0.25	45					
ARROW		1 35	12	0.10						
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	322					

708-235-2692

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

1 REPLACE 10 FT. PAINTED POST. RE-USE EXISTING

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

4 REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

GREEN

INTERCONNECT TO FIRE STATION PRE-EMTOR

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

EACH TRAFFIC SIGNAL BACKPLATE

EACH SIGNAL POST

Y

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2

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NO. 6-NO. 6—

CABLE PLAN

TORRENCE /

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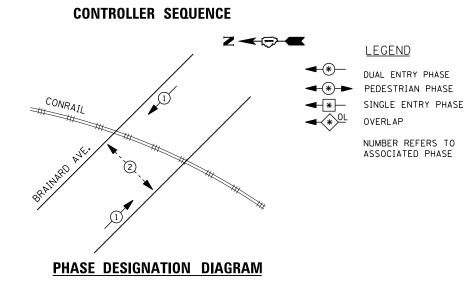
140TH ST.

NO. 6-GREEN

TS #4530 BURNHAM

COMMONWEALTH EDI	SON								BUF	RNHAM	
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			AACTU CTREET AT TORRENOE AVENUE (IL DOUTE CO)	F.A.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDIIII	140TH STREET AT TORRENCE AVENUE (IL ROUTE 83) OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM	1,,,,,	2014-043TS	соок	61	33
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	CONEDUL	OF CONTINUES, SADEL FERM, AND FINAL DESIGNATION DIAGRAM			CONTRAC	T NO. E	OY41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILL INOIS			

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096 ENERGY SUPPLY -CONTACT ILYAS MOHIUDDIN



I. D. O. T.									
	TRAFFIC SIGNAL INSTALLATION								
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	7	1 35	1 7	0.50	60				
(YELLOW)	7	1 35	25	0.25	44				
(GREEN)	7	1 35	15	0.25	27				
ARROW		1 35	12	0.10					
PED. SIGNAL	2	90	25	1.00	50				
CONTROLLER	1	1 00	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	281				

BILLED TO: IDOT DISTRICT 1

CONTACT <u>ILYAS MOHIUDDIN</u> PHONE <u>708-235-2692</u>

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

ENERGY COSTS-

ENERGY SUPPLY -

1 REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. Z **← 🖘 ←** 2 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. 3 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. CONRAIL GREEN -INTERCONNECT TO RAILROAD CONTROLLER FOR PRE-EMPT GREEN

CABLE PLAN

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATIO
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE AND REPLACE ANCHOR BOLTS

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

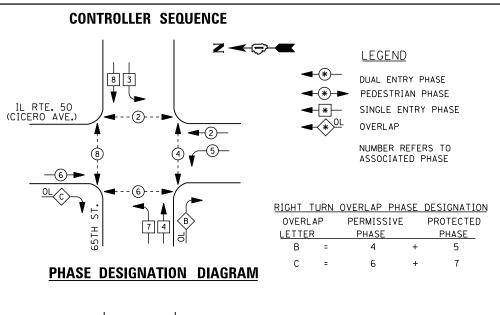
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2 EACH PEDESTRIAN PUSH-BUTTON

1 EACH SIGNAL POST

TS #20615 BURNHAM

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRAINARD AVENUE AT HEGEWISCH METRA STATION				F.A. RTE.	SECTION	COUNTY	TOTAL S SHEETS	SHEET NO.	
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM				2014-043TS	CONTRAC	61 60 60	34 3Y41		
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS STA.	TO STA.		ILLINOIS			



Z - -IL RTE. 50 (CICERO AVE.) **⋖**-3)--

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4					
MOVEMENT		1					

_											
iles	TRAFFIC SIGNAL INSTALLATION										
5	ELECTRICAL SERVICE REQUIREMENTS										
er.	TYPE	NO. LAMPS	% OPERATIONS	TOTAL							
CA D			INCAND.	LED		WATTAGE					
\UesignCAU\Sheet	SIGNAL (RED)	17	1 35	1 7	0.50	145					
9/Ne	(YELLOW)	17	1 35	25	0.25	107					
LEU.	(GREEN)	17	1 35	15	0.25	64					
9	ARROW	12	1 35	12	0.10	15					
Cook	PED. SIGNAL	8	90	25	1.00	200					
	CONTROLLER	1	1 00	100	1.00	100					
South	ILLUM. SIGN		252	25	0.05						
200	VIDEO SYSTEM		150	-	1.00						
14-6											
2											
H.	FLASHER LED										
Ł					TOTAL =	631					

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1 201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096 ENERGY SUPPLY -CONTACT DONALD RIES

773-838-2905

COMMONWEALTH EDISON

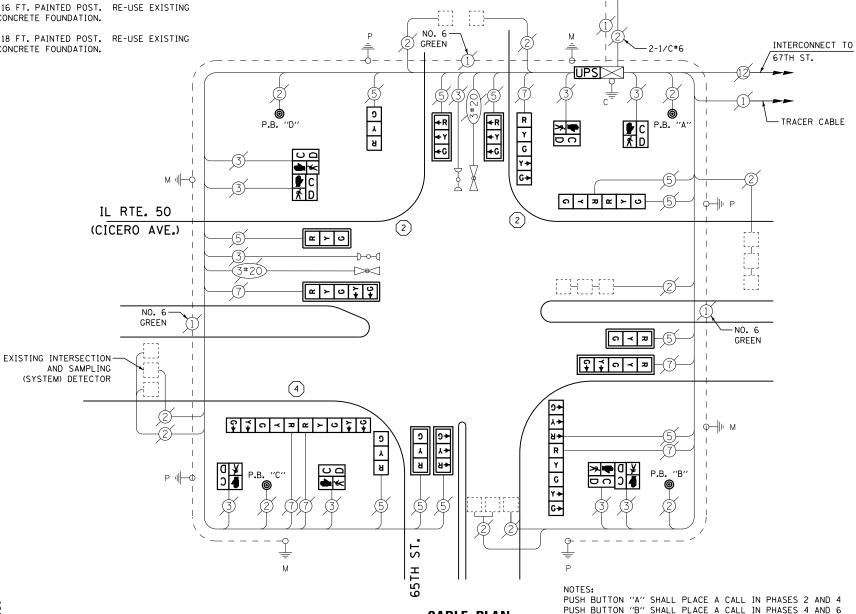
REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



CABLE PLAN

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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 HEAD, 3 - SECTION SIGNAL HEAD, 5 - SECTION

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

SIGNAL HEAD, 2 - FACE, 3 SECTION SIGNAL HEAD, 2 - FACE, 5 SECTION EACH

TRAFFIC SIGNAL BACKPLATE EACH EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON SIGNAL POST

FACH

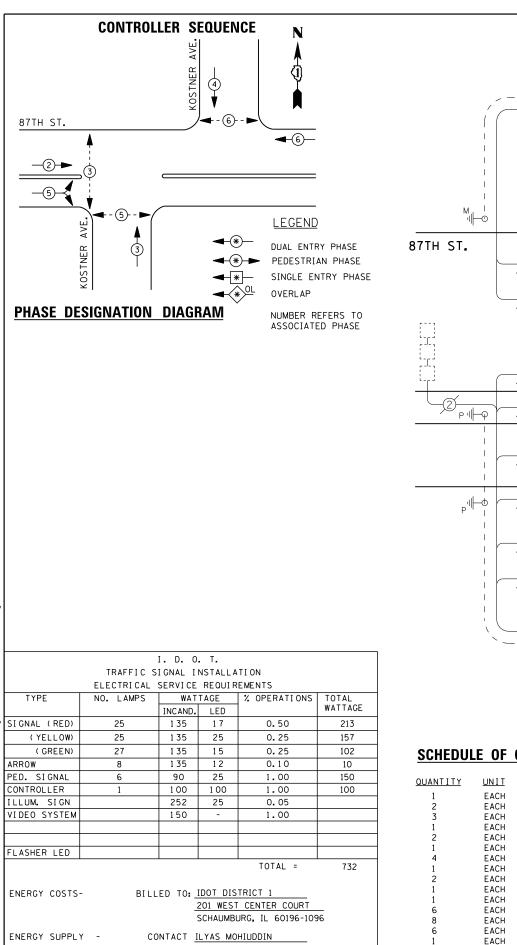
TS #2455

Z - -

USER NAME = _USERNAME_ DESIGNED REVISED DW DRAWN CC REVISED CHECKED REVISED DATE REVISED PLOT DATE = 7/9/2014

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

CHICAGO COUNTY TOTAL SHEET NO. IL ROUTE 50 (CICERO AVENUE) AT 65TH STREET SECTION SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM COOK 61 35 2014-043TS AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CONTRACT NO. 60Y41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.



708-235-2692

USER NAME = _USERNAME.

PLOT DATE = 7/9/2014

PLOT SCALE = 20.000 '/ in.

COMMONWEALTH EDISON

DESIGNED

CHECKED

DRAWN

DATE

DW

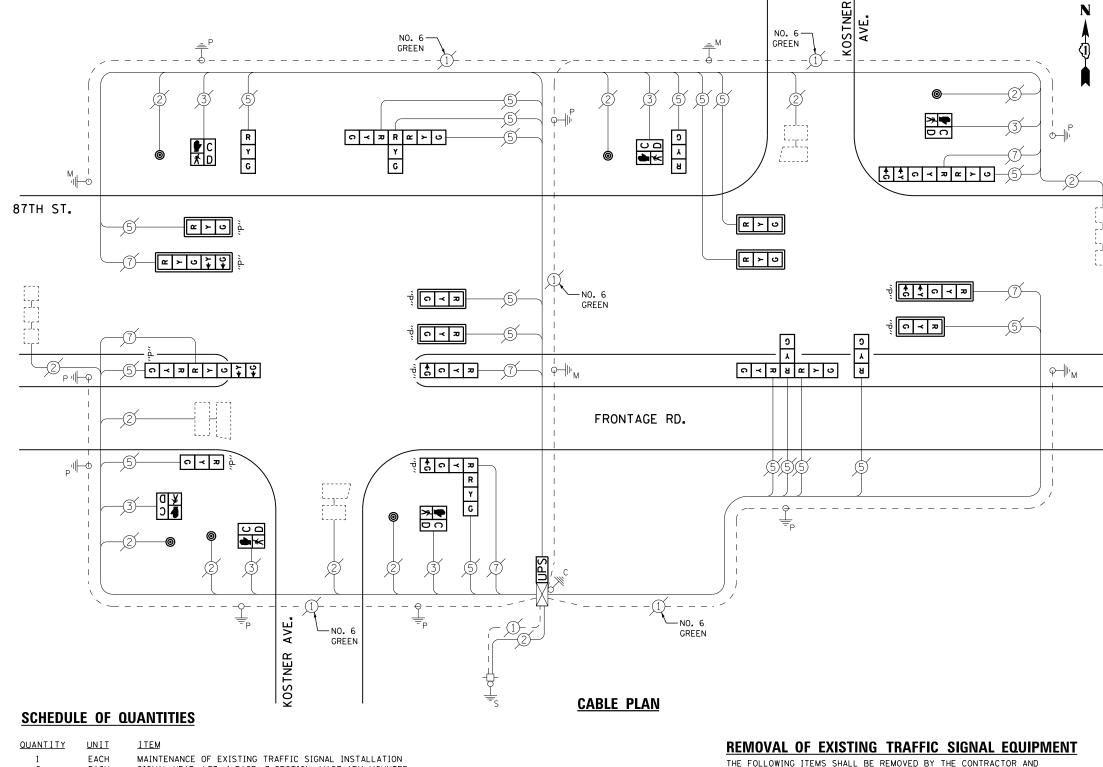
CC

REVISED

REVISED

REVISED

REVISED



EACH EACH EACH EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED	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	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	6 EACH SIGNAL HEAD, 3 - SECTION
EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	1 EACH SIGNAL HEAD, 5 - SECTION
EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	1 EACH SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5 SECTION
EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	2 EACH SIGNAL HEAD, 3 - FACE, 3 SECTION

OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM

PEDESTRIAN PUSH-BUTTON

MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

87TH STREET AT KOSTNER AVENUE SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM

HOMETOWN COUNTY TOTAL SHEET NO. COOK 61 36 COUNTY

TS #3915

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: N.T.S.

SHEET NO. OF SHEETS STA.

EACH

EACH

EACH

EACH

EACH

TRAFFIC SIGNAL BACKPLATE

PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSH-BUTTON

OP SIGNAL HEAD, 3 - SECTION

OP SIGNAL HEAD, 4 - SECTION

OP SIGNAL HEAD, 5 - SECTION

SECTION 2014-043TS CONTRACT NO. 60Y41 <u>UN I T</u>

<u>QUANTITY</u>

1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
10	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	EACH	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED
14	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
8	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECT

OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED
COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED FΔCH EACH EACH EACH

COMBINATION SIGNAL HEAD, LED, 3- FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED

EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH

EACH ILLUMINATED SIGN, LED REMOVE AND REPLACE ANCHOR BOLTS

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR 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.

FACH

TRAFFIC SIGNAL POST TRAFFIC SIGNAL BACKPLATE FACH

OPTICALLY PROGRAMMED SIGNAL HEAD, 3-SECTION OPTICALLY PROGRAMMED SIGNAL HEAD, 5-SECTION EACH FACH

EACH SIGNAL HEAD, 1-SECTION SIGNAL HEAD, 3-SECTION EACH SIGNAL HEAD, 5-SECTION EACH EACH ILLUMINATED SIGN

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "FCONOLITE"

MATCH			SYSTEM

TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS WATTAGE % OPERATIONS TOTAL									
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	52	1 35	1 7	0.50	442					
(YELLOW)	51	1 35	25	0.25	319					
(GREEN)	51	1 35	15	0.25	191					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	1 00	100	1.00	100					
ILLUM. SIGN	1	252	25	0.05	1					
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
	TOTAL = 1072									

USER NAME = _USERNAME_

PLOT DATE = 7/9/2014

I. D. O. T.

TRAFFIC SIGNAL INSTALLATION

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

DESIGNED

CHECKED

DRAWN

DATE

DW

CC

REVISED

REVISED

REVISED

REVISED

ENERGY SUPPLY -CONTACT ILYAS MOHIUDDIN

708-235-2692 COMMONWEALTH EDISON

CTATE OF HILINOIC
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DEFANTIVIENT OF THANSFUNTATION

REPLACE 10 FT. PAINTED POST. RE-USE EXISTING

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING

TYPE A CONCRETE FOUNDATION.

							110
UTHWEST	Γ HIGHWAY ∕PI	ILASKI F	ROAD /KOM	FNSKY AVE	NUE AT 87TH STREET	F.A. RTE.	SECTION
	OF QUANTITIES		2014-043TS				
.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILL INOIS

COUNTY

СООК

CONTRACT NO. 60Y41

61 37

Υ G ''P''

В У •У

4

Υ G ''P''

Y TYPE A CONCRETE FOUNDATION. REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. S A B REPLACE 18 FT. PAINTED POST. RE-USE EXISTING ROAD TYPE A CONCRETE FOUNDATION. PULASKI Y чI **|**—Ф МА G +R R R Y Y +G G G \$ \$ \frac{1}{2} \omega \cong \frac{1}{2} 4 وَّ الاس MA∵II⊢ç ма П—ф ت <u>-</u> ك ~ > o \ \ \ େ **≺** ଅ **\$** \$ \$ ର ≺ ଅ ର **≺** ଅ 87TH STREET ÷ C ≺ Z Œ ≻ O (4) -MA **CABLE PLAN** TS #3920 HOMETOWN (SH. 1)

SCALE: N.T.



ALL PHASES MUST BE ON MAX RECALL NO LEFT TURN AT SW HWY @ SITH FOR NORTHEAST DIRECTION.

> TS #3920 HOMETOWN (SH. 2)

USER NAME = _USERNAME_	DESIGNED	-	DW	REVISED	-
	DRAWN	-	CC	REVISED	-
PLOT SCALE = 20.000 '/ in.	CHECKED	-	JDH	REVISED	-
PLOT DATE = 7/9/2014	DATE	-		REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

					ZENUE AT 87TH STREET DESIGNATION DIAGRAM
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2014-043TS	СООК	61	38
		CONTRACT	NO. 6	OY41

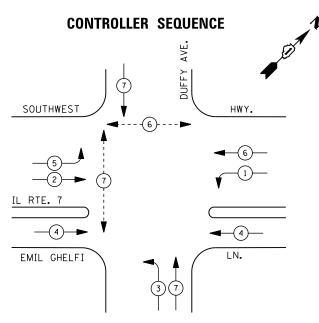


	FRUPUS	ED WAIL	TUAU FR	CCML 1101	W SERVE	NUE UF	UPERALI	UN												
	7/		7/2		7/3		7/	1	7/5		7/6		7/	cx ci	EAR	7/	HOLD 10	4	7/	T PHASE
CHANGE FROM HORMAL SEQUENCE OF OPERATION SHTERYAL HOMBER		I		2	;	3	4		5		6					PRE	EMPTO)R 2		
RAILAGAD PRESANTION SCOUNCE OF OPERATION INTERVAL, NUMBER	14	18	1C	10	1E	1F	16	1H	IJ	IK	IL	1M	2	3	4	5	6	7	8	
DIANCE TO BALLHOAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	18	2	10	2	1F	2	IH	2	1K	2	1M	2	3	4	5	6	7	8	CLEAR TO HORMAL SEQUENCE	
TALASKI RO, N/E & 67TH ST. EFT WAST AND AND PAR LEFT SIDNALS	← R	→ R	← R	← R	4 −Y	← R	← R	→ R	← R	∢ −R	← R	← R	← R	4 −R	← R	4 −R	← R	→ R	← C	
PLEASKI PO. N/8 ¢ ETTH ST. RIGHT WAST ANW AND NEAR RIGHT SIGNALS	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	G	
PULASKI NO. N/D e S.W. HWY UL SIDHKS	R	R	R	R	R	R	G	G	G	G	G	C	G	Y	R	R	R	R	R	
PLEASKI FO. 578 & S.M. HET. OFT MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	
PLEASAT RO. S/E & S.M. HWY. TIGHT MAST ARM AND MEAN RIGHT STOMALS	R	R	R	R	R Y→	R	Y	R	R	R	R	R	R	R	R	R	R	R	R G-▶	
CLASAT RC. S/8 & STTH ST. EFT MAST AND AND FAR LEFT SIDNALS	R	R	Y	R	Ř	R	Y	R	Y	R	R	R	R	R	R	R	R.	R	R	
NILASKI RD. S/D # BITH ST. IDAT WAST ARM AND MEAR RIDAT SIDNALS	R	R	Y	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R -	
ETTH ST. E/E & S.W. HRT. LEFT WAST ARM AND FAR LEFT SIGNALS	← R	← R	← R	4 −R	← R	← R	← Y	◄ -R	← Y	→ R	◆R	← R	∢ -R	◆ - R	◆ R	→ -R	∢ −R	← R	→ R	
ATTH ST. LITE & S.W. HMT.	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	
117H ST. 6/8 # PULKSKI PO. LL SIGNALS	R	R	R	R	R	R	R	R	8	R	Υ	R	R	R	R	R	R	R	R	
TTH ST. W/B & PULASKI RD.	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	
TTH ST. N/B & S.R. HET. EFT WAST AND AND FAR LEFT SIGNALS	G ← G	G ← G	R	R	R	R	R ∢ −G	R 4 -G	R	R	G	G	G ← G	Y	R	R	R	R	R	
TTH ST. W/E e S.M. HWY.	G	G	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	R	R	
IK. HEY. NE/B & BITH ST.	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	
LM. HMT, NE/S & PULASHI RO. EFT MAST ARM AND FAR LEFT SIGNALS	R ∢ −Y	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	G	G	G	G ←G	
UP. HEYE NE/E & PULASKI NO. TON'T WAST ARM AND MEAR ROOM STONALS	R	R	Υ	R	Y	R	R	R	R	R	R	R	R	R	£	G	G	G	G	
M. HWY, SK/E & PULASKI RD. FT WAST ARM AND FAR LEFT SIDNALS	← Y	4 −R	→ R	←R	← R	← R	← R	∢ -R	← R	← R	→ -R	→ R	◆ R	← R	◆R	← R	4 −R	← R	→ R	
M. HWY, SH/E & PULASKI RO. OAT MAST ARM AND NEAR RIGHT SIGNALS	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	
E. HEY, SE/E & STTH ST L SIDNES	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	G	G	G	G	
													TRACK CLEAR			HOLD			EXIT	

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

TS #3920 HOME TOWN (SH. 3)

| COUNTY | TOTAL SHEET | NO. |
| COOK | 61 | 39 |
| CONTRACT NO. 60741 USER NAME = _USERNAME_ DESIGNED -DW REVISED SECTION SOUTHWEST HIGHWAY /PULASKI ROAD /KOMENSKY AVENUE AT 87TH STREET SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION DRAWN CC REVISED 2014-043TS CHECKED REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 7/9/2014 DATE REVISED



LEGEND * DUAL ENTRY PHASE - SINGLE ENTRY PHASE O.L. OVERLAP → - (*) - ► PEDESTRIAN PHASE NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

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

INCAND. LED

17

25

15

12

25

100

25

BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN

708-235-2692

1 35

1 35

1 35

1 35

90

100

252

150

PHONE

WATTAGE % OPERATIONS TOTAL

0.50

0.25

0.25

0.10

1.00

1.00

0.05

1.00

TOTAL =

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

NO. LAMPS

18

18

18

10

REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

IL ROUTE 7	R Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q
	D LANE A P P P P P P P P P P P P P P P P P P

SCHEDULE OF QUANTITIES

EACH

QUANTITY	<u>UN I T</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
3	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
5	EACH	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL

REMOVE AND REPLACE ANCHOR BOLTS

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRCTOR 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.

10	EACH	TRAFFIC SIGNAL POST
2	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	PEDESTRIAN SIGNAL HEAD
4	EACH	PEDESTRIAN PUSH-BUTTON
7	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 3-SECTION
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, 5-SECTION
5	EACH	SIGNAL HEAD, 1-SECTION
5	EACH	SIGNAL HEAD, 3-SECTION
2	EACH	SIGNAL HEAD, 4-SECTION
2	EACH	SIGNAL HEAD, 5-SECTION

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

TS #10750 HOMETOWN

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -
	DRAWN -	CC	REVISED -
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -
PLOT DATE = 7/9/2014	DATE -		REVISED -

WATTAGE

153

113

68

12

100

100

546

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: N.T.S.

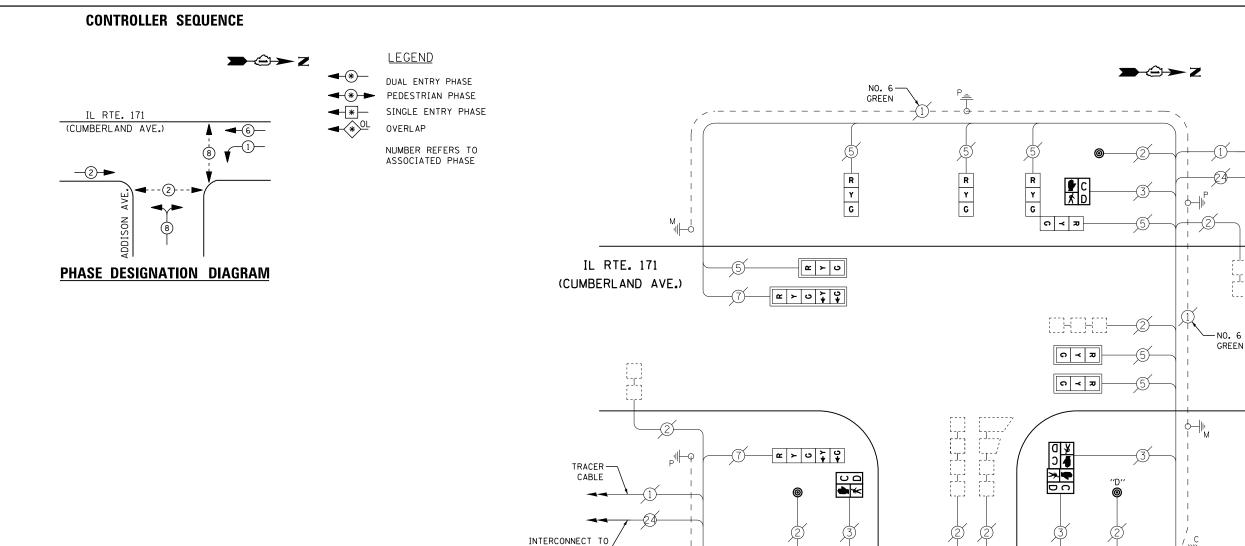
								1101	VIL I U	WIN
i	L ROUTE 7 (S	OUTHWE	ST HIGHWA	Y) AT DUFFY	AVENUE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					IGNATION DIAGRAM		2014-043TS	COOK	61	40
								CONTRAC	T NO. 6	OY41
N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS			

SIGNAL (RED) ARROW PED. SIGNAL CONTROLLER ILLUM. SIGN VIDEO SYSTEM FLASHER LED ENERGY COSTS-ENERGY SUPPLY -

(YELLOW)

(GREEN)





FOREST PRESERVE DR.

		I. D. O.	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	9	1 35	1 7	0.50	77
(YELLOW)	9	1 35	25	0.25	57
(GREEN)	9	1 35	15	0.25	34
ARROW	4	1 35	12	0.10	5
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	1 00	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	ı	1.00	
FLASHER LED					
				TOTAL =	373

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE LEUNG PHONE 773-509-3288

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMEF
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

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

PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

CABLE PLAN

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

- TRACER

INTERCONNECT TO IRVING PARK RD.

CABLE

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 PEDESTRIAN PUSH-BUTTON 4 EACH 3 EACH

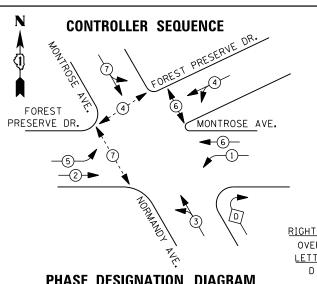
TS #4115

COMMONWEALTH EDISO	<u> </u>												Cr	11CAGO
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			DOUTE 474 (CI	IIMDEDI AA	ID AVENU	IE) AT ADDI	CON CIDELL	F.A. RTF	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS		ROUTE 171 (CU				SIGNATION DIAGRAM		2014-043TS	соок	61 41
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	SUILDULL	OI GOANTITIES	S, CADLL I	LAN, AND	I IIAGE DE	SIGNATION DIAGNAM		2011 0 1010	CONTRAC	T NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS		

AVE.

ADDISON

GREEN



PHASE DESIGNATION DIAGRAM

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

1	REPLACE 10 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTING	
2	REPLACE 14 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTING	
3	REPLACE 15 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTING	
4	REPLACE 16 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTING	,
5	REPLACE 18 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTING	
				',\
T TURN	OVERLAP PHASE DESIGNATION			
ERLAP TER	PERMISSIVE PROTECTED PHASE PHASE			\(3)-
) =	3 + 1			Millio
			FORES	T PRESERVE DR.
		E	AN	ITERSECTION ID SAMPLING DETECTORS

		I. D. O.	т.		
	TRAFFIC S	IGNAL II	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
IGNAL (RED)	18	1 35	1 7	0.50	153
(YELLOW)	18	1 35	25	0.25	113
(GREEN)	24	1 35	15	0.25	90
RROW	12	1 35	12	0.10	15
ED. SIGNAL	6	90	25	1.00	150
ONTROLLER	1	100	100	1.00	100
LLUM. SIGN		252	25	0.05	
IDEO SYSTEM		150	-	1.00	
LASHER LED					
				TOTAL =	621

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1 201 WEST CENTER COURT

CONTACT JOE LEUNG

773-509-3288 COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

SCHEDULE OF QUANTITIES

******		<u></u>
<u>QUANT I TY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
9	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TRACER CABLE

INTERCONNECT TO OAK PARK AVE.

TO BE ABANDONED

CABLE PLAN

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

PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

GREEN

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, 3 - SECTION
SIGNAL HEAD, 4 - SECTION
SIGNAL HEAD, 5 - SECTION
OPTICALLY PROGRAMMED SIGNAL HEAD, 3 - SECTION EACH FACH FACH

TELEPHONE SERVICE

↑ ↑ ∩ ≺ ¬

ດ ≺ ສ

FOREST PRESERVE DR.

TRACER CABLE

NEENAH AVE.

INTERCONNECT TO

EXISTING INTERSECTION

(SYSTEM) DETECTORS

AND SAMPLING

MONTROSE AVE.

NO. 6-

GREEN

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- C > O C

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EACH EACH OPTICALLY PROGRAMMED SIGNAL HEAD, 4 - SECTION OPTICALLY PROGRAMMED SIGNAL HEAD, 5 - SECTION EACH

EACH SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-4 SECTION EACH TRAFFIC SIGNAL BACKPLATE

EACH SIGNAL POST EACH PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON

TS #5095 CHICAGO

USER NAME = _USERNAME_ DESIGNED REVISED DW DRAWN CC REVISED CHECKED REVISED PLOT DATE = 7/9/2014 DATE REVISED

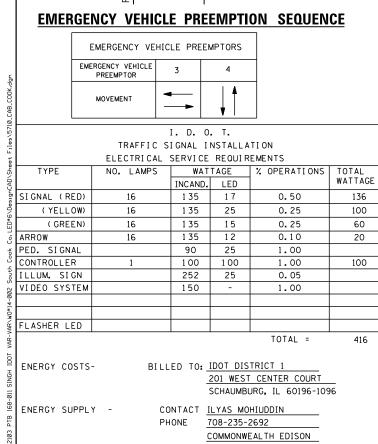
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

			CHICAG	U	
FOREST PRESERVE DRIVE AT MONTROSE AVENUE	F.A. RTE.	SECTION	COUNTY		NO.
SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM		2014-043TS	СООК	61	42
			CONTRAC	T NO. 60'	Y41
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS	•		

ENERGY SUPPLY -

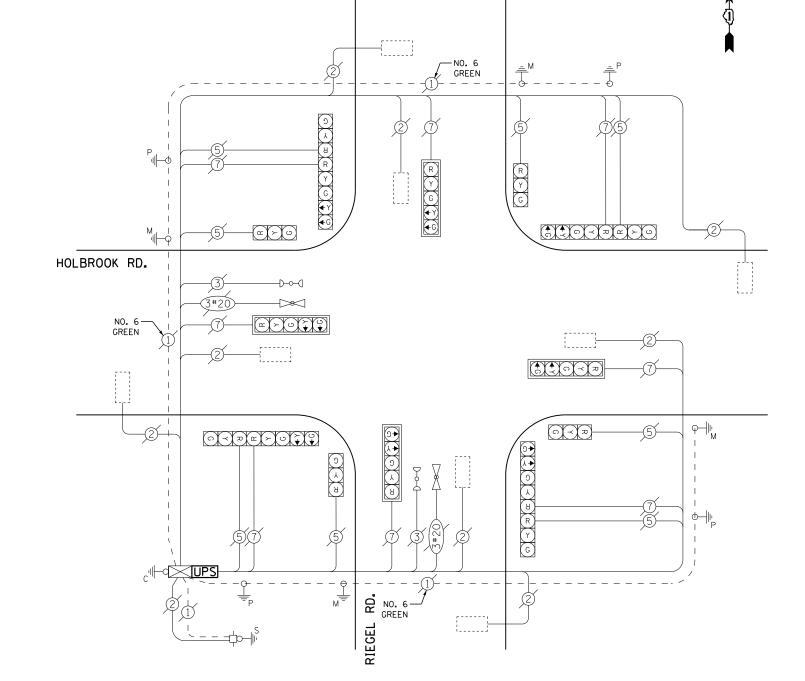


HOLBROOK RD.



CONTROLLER SEQUENCE <u>LEGEND</u> DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE HOLBROOK RD. OVERLAP NUMBER REFERS TO ASSOCIATED PHASE PHASE DESIGNATION DIAGRAM

₹3



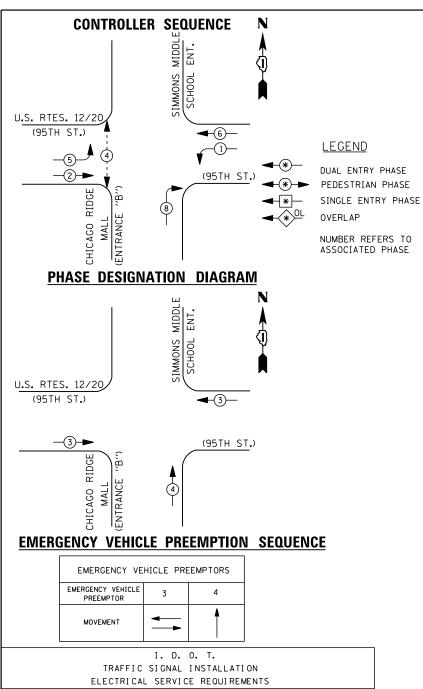
CABLE PLAN

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UN I T</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS #5710 CHICAGO HEIGHTS

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		RIEGEL ROAD AT HOLBROOK ROAD	F.A. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2014-043TS	соок	61 43
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				T NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS		



		I. D. O	. т.		
	TRAFFIC S			TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	11	1 35	1 7	0.50	94
(YELLOW)	11	1 35	25	0.25	69
(GREEN)	11	1 35	15	0.25	42
ARROW	8	1 35	12	0.10	10
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	1 00	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
				TOTAL =	365

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT ILYAS MOHIUDDIN

708-235-2692 COMMONWEALTH EDISON 1) REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

SIMMONS MIDDLE SCHOOL ENTRANCE NO. 6 -GREEN \$ \$ 0 < 2 G+ a > 0 U.S. RTES. 12/20 (95TH ST.) **∝** ≻ ∪ GREEN **₹** 0 ≺ 2 **೧** ▼ **1** − (5) 0 4 2 2 7 2 7 -EXISTING TRACER CABLE

> CHICAGO RIDGE MALL (ENTRANCE "B")

GREEN

CABLE PLAN

SCHEDULE OF QUANTITIES

<u>UANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMES
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

INTERCONNECT TO

NASHVILLE AVE./CHICAGO

RIDGE MALL (ENT. "A")

EXISTING TRACER CABLE-

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

INTERCONNECT TO RIDGELAND AVE.

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, 3 - SECTION SIGNAL HEAD, 5 - SECTION

SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5 SECTION SIGNAL HEAD, 3 - FACE, 2-3 SECTION, 1-5 SECTION EACH

TRAFFIC SIGNAL BACKPLATE EACH PEDESTRIAN SIGNAL HEAD EACH

PEDESTRIAN PUSH-BUTTON FACH SIGNAL POST EACH

> TS #470 CHICAGO RIDGE

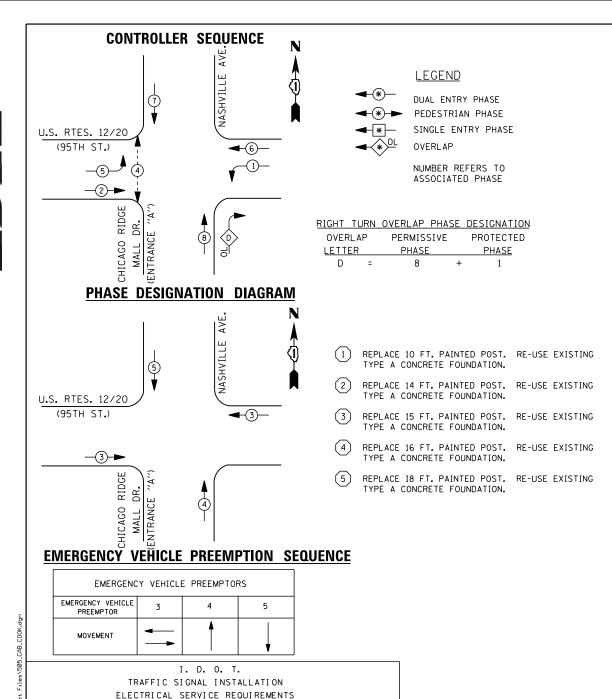
USER NAME = _USERNAME_	DESIGNED	-	DW	REVISED -
	DRAWN	-	CC	REVISED -
PLOT SCALE = 20.000 '/ in.	CHECKED	-	JDH	REVISED -
PLOT DATE = 7/9/2014	DATE	-		REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

U.S. ROUTES 12 /20 (95TH STREET) AT CHICAGO RIDGE MALL DRIVE (ENTRANCE "B")
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEET NO.

COOK 61 44 COUNTY SECTION 2014-043TS CONTRACT NO. 60Y41



WATTAGE % OPERATIONS TOTAL

0.50

0.25

0.25

0.10

1.00

1.00

0.05

1.00

TOTAL =

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

INCAND. LED

17

25

15

12

25

100

25

BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN 708-235-2692 COMMONWEALTH EDISON

1 35

1 35

1 35

1 35

90

1 00

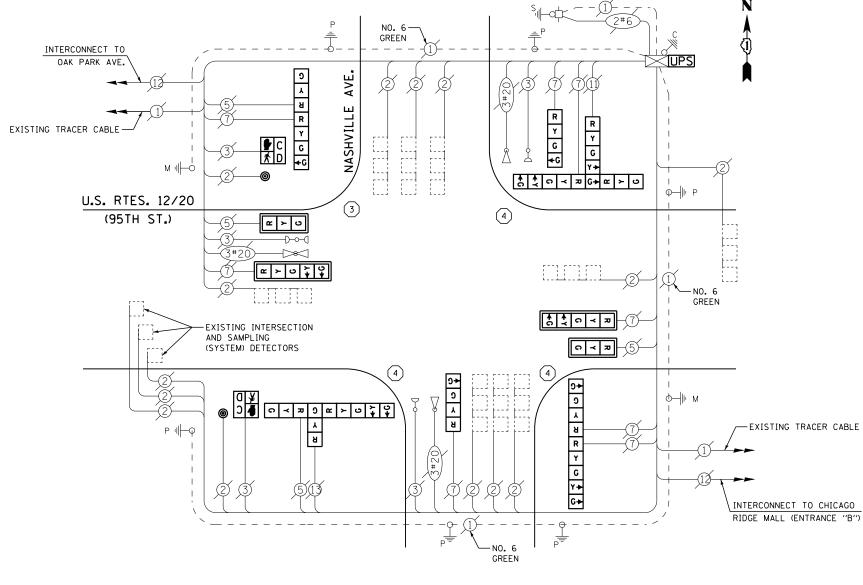
252

150

NO. LAMPS

16

20



CHICAGO RIDGE MALL DR. (ENTRANCE "A")

CABLE PLAN

SCHEDULE OF QUANTITIES

OLIANITITY	LINITT	ITTM
<u>OUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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.

		TEOLED IN THE CONTINUE BID THICE.
2	EACH	SIGNAL HEAD, 3 - SECTION
2	EACH	SIGNAL HEAD, 4 - SECTION
2	EACH	SIGNAL HEAD, 5 - SECTION
1	EACH	SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-4 SECTION
1	EACH	SIGNAL HEAD, 2 - FACE, 1-4 SECTION, 1-5 SECTION
1	EACH	SIGNAL HEAD, 3 - FACE, 2-3 SECTION, 1-5 SECTION
1	EACH	SIGNAL HEAD, 3 - FACE, 1-3 SECTION, 2-5 SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	PEDESTRIAN SIGNAL HEAD
2	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	SIGNAL POST
		12 #50

CHICAGO RIDGE

СООК 61 45

CONTRACT NO. 60Y41

COUNTY

USER NAME = _USERNAME_	DESIGNED	-	DW	REVISED -	
	DRAWN	-	CC	REVISED -	
PLOT SCALE = 20.000 '/ in.	CHECKED	-	JDH	REVISED -	
PLOT DATE = 7/9/2014	DATE	-		REVISED -	

WATTAGE

136

100

75

15

50

100

476

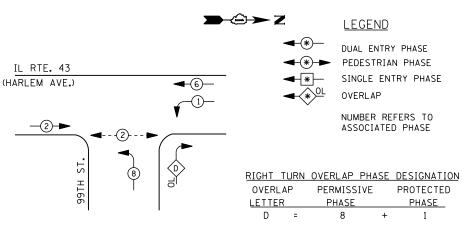
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

U.S. RTES. 12/20 (95TH ST.) AT CHICAGO RIDGE MALL DR. (ENTRANCE "A") /NASHVILLE AVE. SECTION SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 2014-043TS SCALE: N.T.S. SHEET NO. OF SHEETS STA.

SIGNAL (RED) ARROW PED. SIGNAL CONTROLLER ILLUM. SIGN VIDEO SYSTEM FLASHER LED ENERGY COSTS-ENERGY SUPPLY -

(YELLOW)

(GREEN)

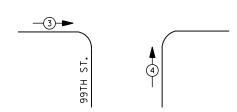


PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE



⋖-3)—



(HARLEM AVE.)

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEI	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	+	1

	ELECTRICAL SERVICE REQUIREMENTS					
5	TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
5			INCAND.	LED		WATTAGE
5.5	SIGNAL (RED)	11	1 35	1 7	0.50	94
0.00	(YELLOW)	11	1 35	25	0.25	69
9	(GREEN)	11	1 35	15	0.25	42
5	ARROW	8	1 35	12	0.10	10
5	PED. SIGNAL		90	25	1.00	
3	CONTROLLER	1	100	1 00	1.00	100
2	ILLUM. SIGN	2	252	25	0.05	3
70	VIDEO SYSTEM		150	-	1.00	
2						
				-		

I. D. O. T.

TRAFFIC SIGNAL INSTALLATION

ENERGY COSTS-

FLASHER LED

BILLED TO: IDOT DISTRICT 1 201 WEST CENTER COURT

TOTAL =

SCHAUMBURG, IL 60196-1096

318

ENERGY SUPPLY -CONTACT ILYAS MOHIUDDIN

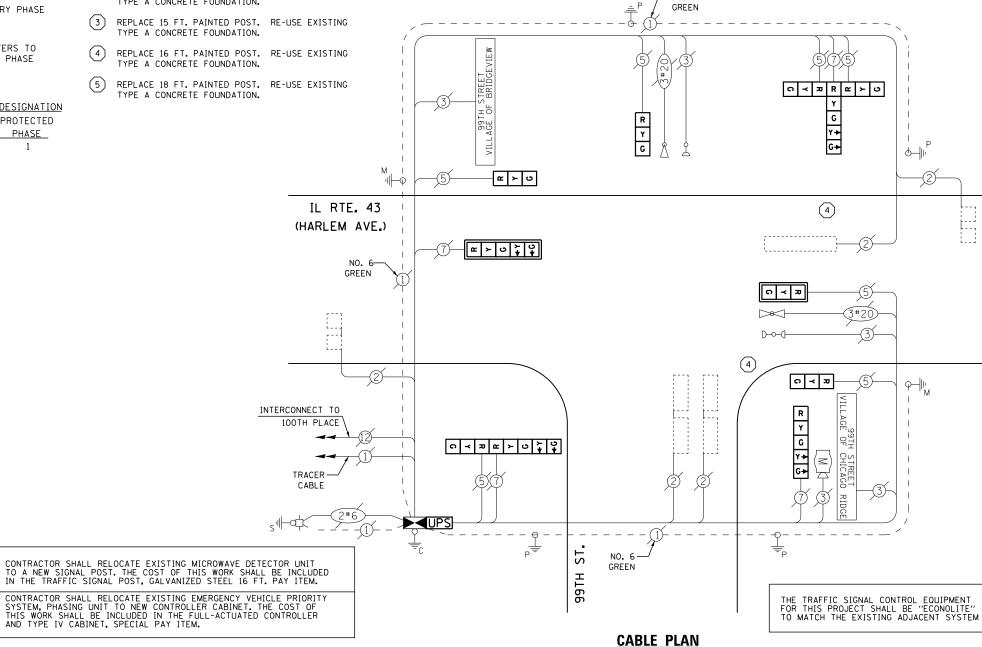
PHONE 708-235-2692 COMMONWENT THE EDICON REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



-NO. 6

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION BRACKET MOUNTED
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
5	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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 EACH

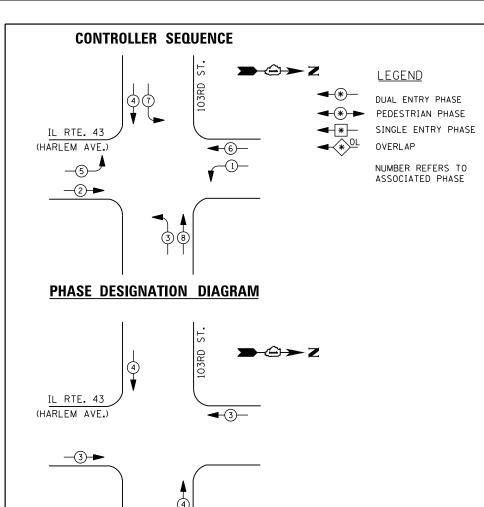
SIGNAL HEAD, 1 - FACE, 5 - SECTION SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION SIGNAL HEAD, 3 - FACE, 2-3 SECTION, 1-5-SECTION

TRAFFIC SIGNAL BACKPLATE EACH SIGNAL POST

CONTROLLER AND CABINET (COMPLETE)

TS #2200

COMMONWEALTH EDISON	<u> </u>						CHICAGO RIDGE
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		IL ROUTE 43 (HARLEM AVENUE) AT 99TH STREET	F.A. SECTION	COUNTY TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2014-043TS	COOK 61 46
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS	s



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	† 1	↓ †

I. D. O. T.							
TRAFFIC SIGNAL INSTALLATION							
	ELECTRICAL	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS WATTAGE % OPERATIONS TOT			TOTAL			
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	12	1 35	1 7	0.50	102		
(YELLOW)	12	1 35	25	0.25	75		
(GREEN)	12	1 35	15	0.25	45		
ARROW	16	1 35	12	0.10	20		
PED. SIGNAL		90	25	1.00			
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN	4	252	25	0.05	5		
VIDEO SYSTEM		150	ı	1.00			
FLASHER LED							
				TOTAL =	347		

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1 201 WEST CENTER COURT

ENERGY SUPPLY -CONTACT ILYAS MOHIUDDIN

PLOT DATE = 7/9/2014

708-235-2692 COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

USER NAME = _USERNAME_ DESIGNED REVISED DW DRAWN CC REVISED

CHECKED

DATE

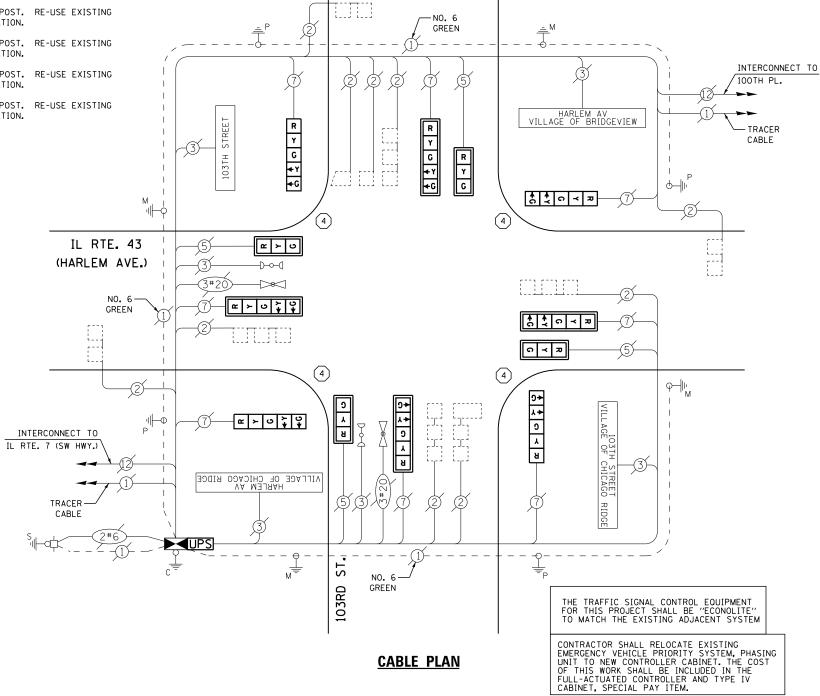
1) REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



SCHEDULE OF QUANTITIES

REVISED

REVISED

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
10	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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 POST

EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION SIGNAL HEAD, 1 - FACE, 5 - SECTION

TRAFFIC SIGNAL BACKPLATE FACH

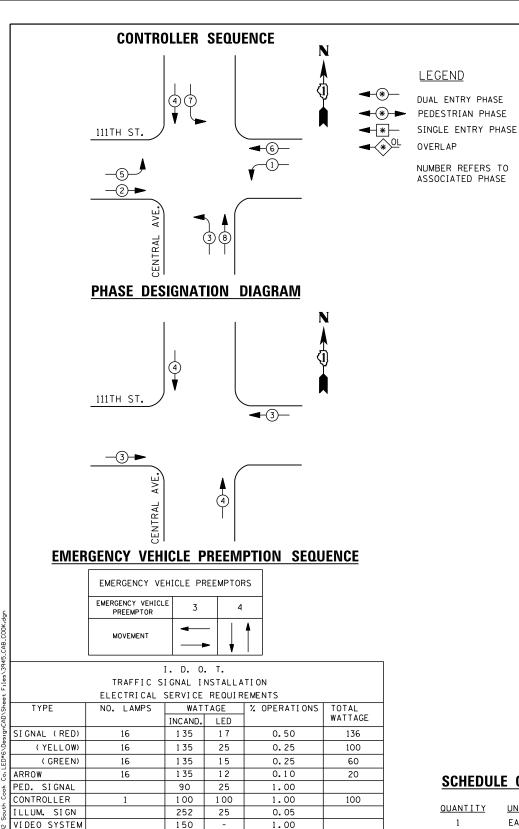
CONTROLLER AND CABINET (COMPLETE) EACH

> TS #2205 CHICAGO RIDGE

COUNTY TOTAL SHEET NO.

COOK 61 47 COUNTY IL ROUTE 43 (HARLEM AVENUE) AT 103RD STREET SECTION STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM 2014-043TS AND EMERGENCY VEHICLE PREEMPTION SEQUENCE **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60Y41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.

CABLE PLAN



1.00

TOTAL =

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

150

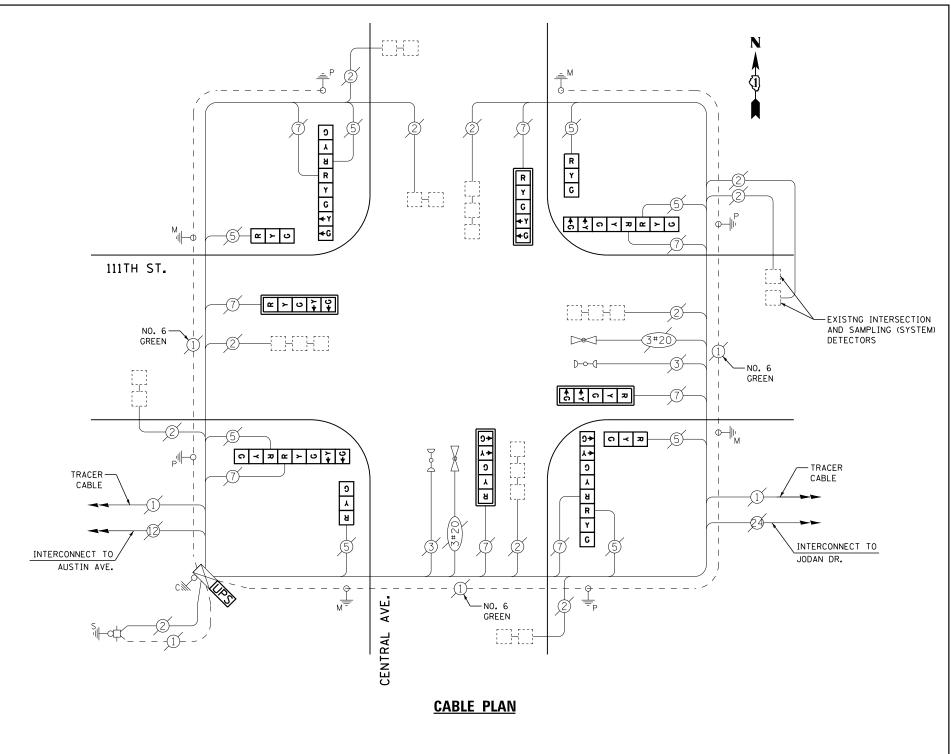
BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN 708-235-2692

FLASHER LED

ENERGY COSTS-

ENERGY SUPPLY -



SCHEDULE OF QUANTITIES

LEGEND

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

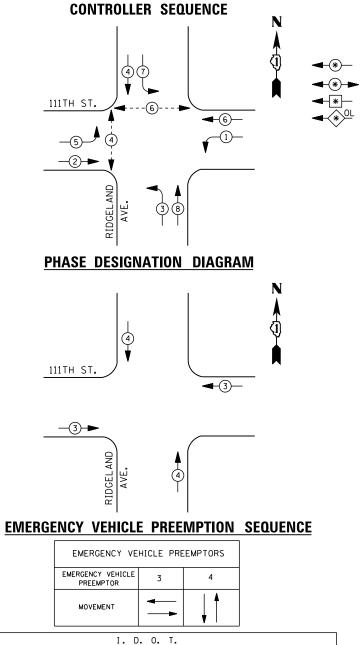
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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 SIGNAL HEAD, 1 FACE, 3 SECTION
- 4 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
- SIGNAL HEAD, 2 FACE, 1-3 SECTION, 1-5 SECTION 4 EACH
- 4 EACH TRAFFIC SIGNAL BACKPLATE

TS #3945 CHICAGO RIDGE

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		111TH STREET AT CENTRAL AVENUE	F.A.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	CC	REVISED -		SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	RIE.	2014-043TS		61	48
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2014-043TS COOK	CONTRACT	NO. 6	0Y41
PLOT DATE = 7/9/2014	DATE -		REVISED - STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGN	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS				



	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	17	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
(GREEN)	12	1 35	15	0.25	45				
ARROW	16	1 35	12	0.10	20				
PED. SIGNAL	4	90	25	1.00	100				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									

TRAFFIC SIGNAL INSTALLATION

ENERGY COSTS-

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

442

ENERGY SUPPLY -

CONTACT ILYAS MOHIUDDIN 708-235-2692

BILLED TO: IDOT DISTRICT 1

COMMONWEALTH EDISON

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

EXISTING INTERSECTION-AND SAMPLING (SYSTEM)

DETECTORS

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

NOTE:

≫ • C

(c)_\(\pi\)

-NO. 6 GREEN

PUSH-BUTTON "B" SHALL PLACE CALLS IN PHASES 4 & 6.

CABLE

INTERCONNECT TO

AUSTIN AVE.

₽ C ⊃ O ★ ★

0 <u>¥</u> ⊃ **4**

RIDGELAND AVE.

P.B. "B"

111TH ST.

NO. 6-GREEN

-NO. 6

CABLE PLAN

GREEN

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.

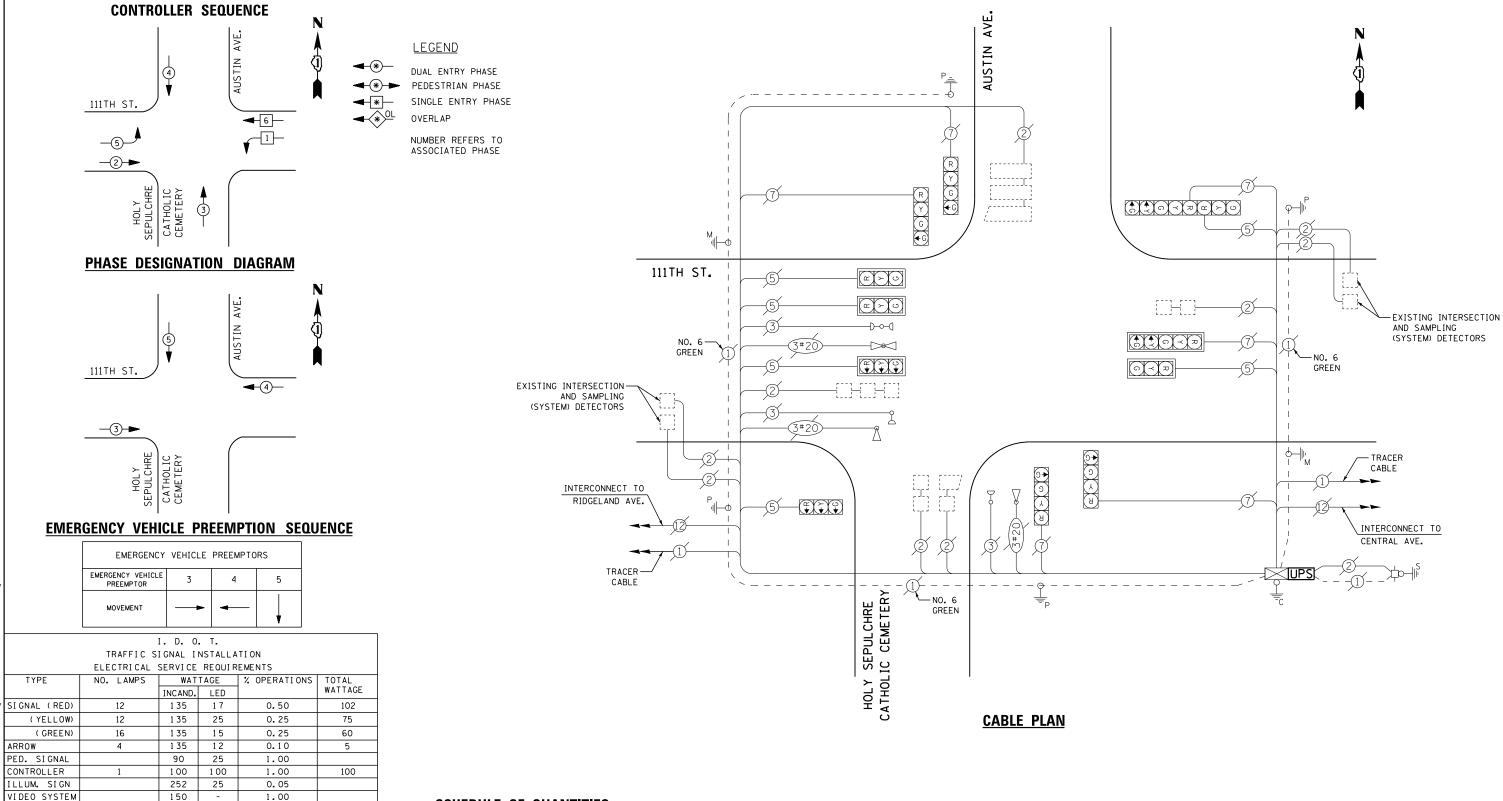
4 EACH PEDESTRIAN SIGNAL HEAD

3 EACH PEDESTRIAN PUSH-BUTTON

TS #3950 CHICAGO RIDGE

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		111TH STREET AT RIDGELAND AVENUE					F.A. RTF.	SECTION	COUNTY	TOTAL SHEET	
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHE	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE						2014-043TS	соок	61 49
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EWEKG	SENCY VEHICL	E PREE	:WIPTION 5	EUUENCE			CONTRAC	T NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEE	TS S	TA.	TO STA.		ILLINOIS		

WITH COUNTDOWN TIMER WITH COUNTDOWN TIMER



SCHEDULE OF QUANTITIES

TOTAL =

201 WEST CENTER COURT

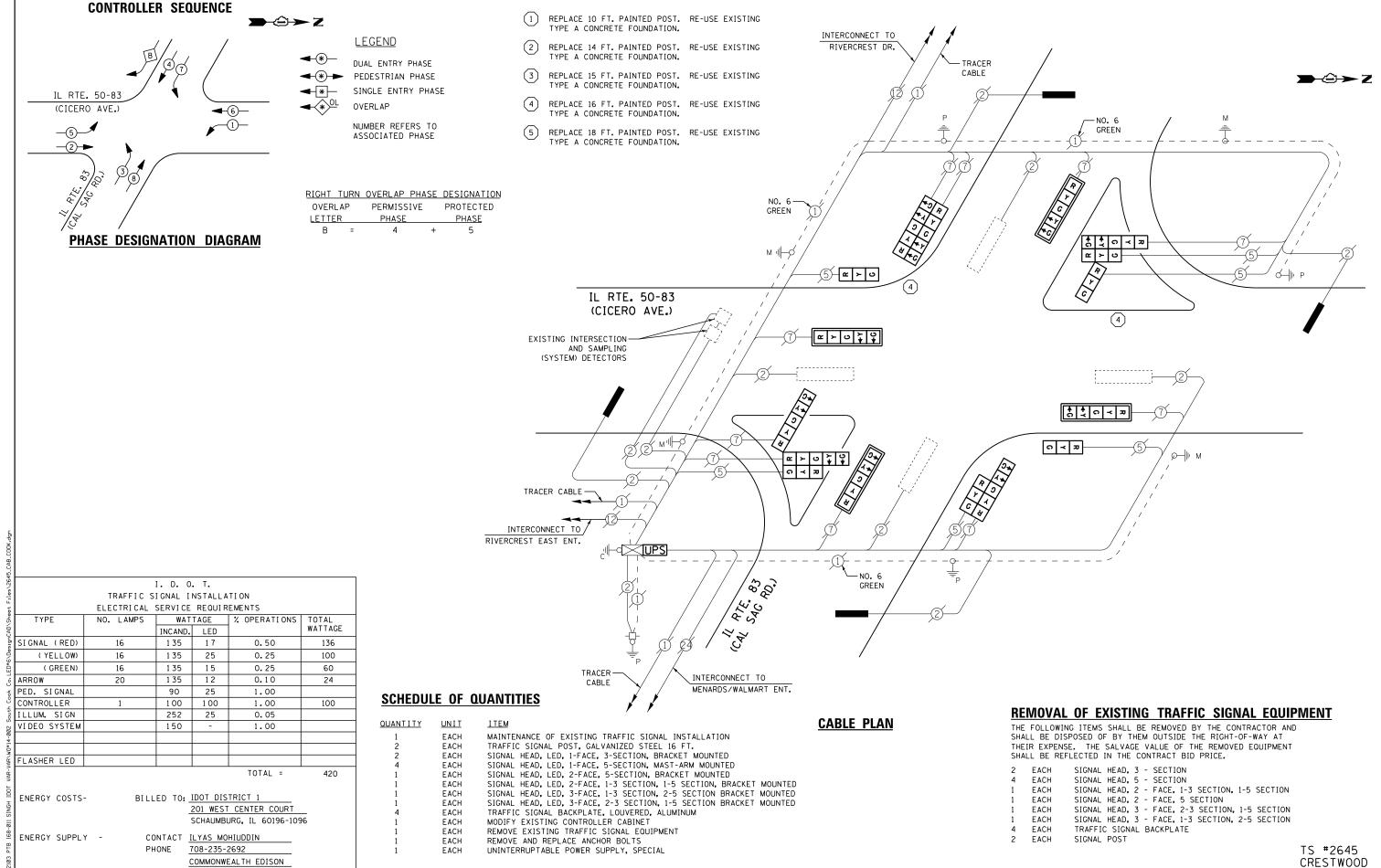
BILLED TO: IDOT DISTRICT 1

342

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

	SCHAUMBURG, IL 60196									
CONTA PHONE		N_							TS #21220 CHICAGO RIDGE	
USER	NAME = _USERNAME_	RNAME_ DESIGNED - DW REVISED				111TH STREET AT AUSTIN AVENUE	F.A. RTF	SECTION	COUNTY TOTAL SHEET SHEETS NO.	
		DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2014-043TS	COOK 61 50	
PLOT 5	SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60Y41	
PLOT f	PLOT DATE = 7/9/2014			REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS			

FLASHER LED ENERGY COSTS-ENERGY SUPPLY -



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

COUNTY

COOK 61 51

CONTRACT NO. 60Y41

SECTION

2014-043TS

IL ROUTE 50-83 (CICERO AVENUE) AT IL ROUTE 83 (CAL SAG ROAD)

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM

SHEET NO. OF SHEETS STA.

SCALE: N.T.S.

M:\proj\1481\2103 PTB 168-011 SIN

USER NAME = _USERNAME_

PLOT DATE = 7/9/2014

DESIGNED

DRAWN

DATE

CHECKED

DW

CC

REVISED

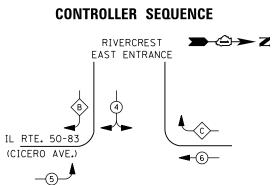
REVISED

REVISED

REVISED

FILE NAME =





LEGEND

DUAL ENTRY PHASE **→**(*) → PEDESTRIAN PHASE

SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

	RIGHT	TURN	OVERLAP	PHASE	DESIGNAT	ION		
	OVE	RLAP	PERMIS	SIVE	PROTECTED			
LETTER			PHAS	Ε	PHASE			
	В	=	4	+	5			
	· -		c		4			

PHASE DESIGNATION DIAGRAM

	# D A D A D A D A D A D A D A D A D A D		9#Z	
(CICERO AVE.)			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
EXISTING INTERSECTION— AND SAMPLING (SYSTEM) DETECTORS			EXISTING INTE AND SAMPLING (SYSTEM) DETE	3
	5	д	→ III ^M = S	
TRACER CABLE —	7 T	T	TRACER CABLE	
INTERCONNECT TO 135TH ST.	\$	5 5 - 9 9	 INTERCONNECT TO CAL-SAG RD.	

RIVERCREST EAST ENTRANCE

GREEN

CABLE PLAN

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

→⊕→ Z

	I. D. O. T.										
	TRAFFIC S	I GNAL I	NSTALLA	TION							
TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS TYPE											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS							
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	12	1 35	1 7	0.50	102						
(YELLOW)	12	1 35	25	0.25	75						
(GREEN)	12	1 35	15	0.25	45						
ARROW	8	1 35	12	0.10	10						
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	100	100	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
				TOTAL =	332						

BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN 708-235-2692

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

ENERGY COSTS-

ENERGY SUPPLY -

SCHEDULE OF QUANTITIES

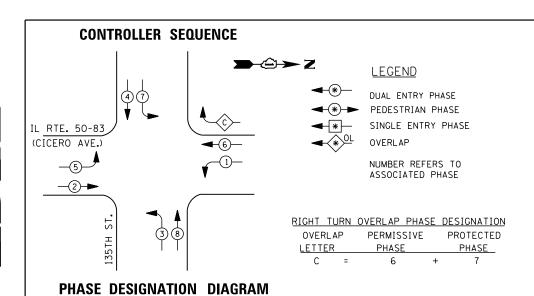
QUANTITY	<u>UNII</u>	11EM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

TS #2649 CRESTWOOD

 COUNTY
 TOTAL SHEETS NO.

 COOK
 61
 52

 CONTRACT
 NO.
 60Y41
 USER NAME = _USERNAME_ DESIGNED -DW REVISED SECTION IL ROUTE 50–83 (CICERO AVENUE) AT RIVERCREST EAST ENTRANCE SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM STATE OF ILLINOIS DRAWN CC REVISED 2014-043TS **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED PLOT DATE = 7/9/2014 DATE REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA.



I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE % OPERATIONS TOTAL WATTAGE INCAND. LED SIGNAL (RED) 136 1 35 17 0.50 16 (YELLOW) 1 35 25 0.25 100 16 (GREEN) 16 1 35 15 0.25 60 ARROW 20 1 35 12 0.10 24 PED. SIGNAL 90 25 1.00 CONTROLLER 1 00 100 1.00 100 ILLUM. SIGN 252 25 0.05 VIDEO SYSTEM 1.00 150 FLASHER LED TOTAL = 420 BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

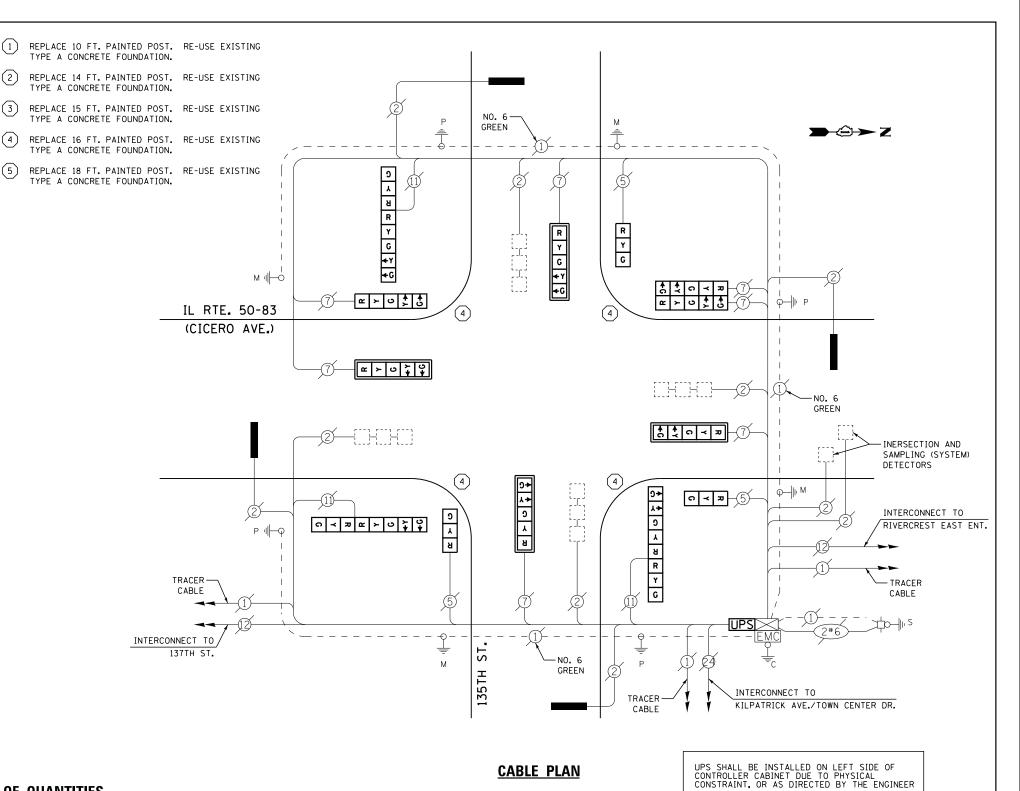
CONTACT ILYAS MOHIUDDIN

708-235-2692

COMMONWEALTH EDISON

PHONE

ENERGY SUPPLY -



SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED EACH EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM MODIFY EXISTING CONTROLLER CABINET EACH EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVE AND REPLACE ANCHOR BOLTS FACH EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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, 3 - SECTION EACH

SIGNAL HEAD, 5 - SECTION EACH EACH SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5 SECTION

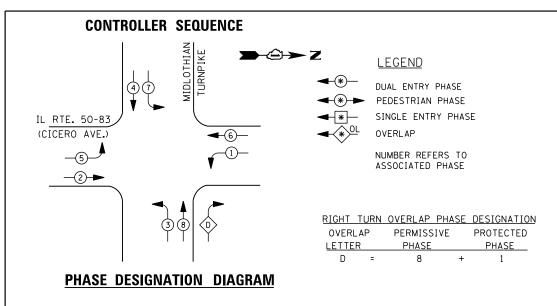
EACH SIGNAL HEAD, 2 - FACE, 5 SECTION

EACH TRAFFIC SIGNAL BACKPLATE

EACH SIGNAL POST

> TS #2650 CRESTWOOD

												CINESTI	1000
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			IL ROUTE 50–83 (CICERO AVENUE) AT 135TH STREET SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM				F.A.	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDIILE					1,,,,,,	2014-043TS	соок	61 53
PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	OUNEDOLL	. or goaltiffico, oal	DEE TEAR ARE	D THACE DECIGNATIO	DIAGILAW			CONTRAC	T NO. 60Y41
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. O	F SHEETS	STA.	TO STA.		ILL INOIS		



I. D. O. T.								
TRAFFIC SIGNAL INSTALLATION								
ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	16	1 35	17	0.50	136			
(YELLOW)	16	1 35	25	0.25	100			
(GREEN)	16	1 35	15	0.25	60			
ARROW	20	1 35	12	0.10	24			
PED. SIGNAL		90	25	1.00				
CONTROLLER	1	1 00	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								
				TOTAL =	420			

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1 201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT ILYAS MOHIUDDIN 708-235-2692

COMMONWEALTH EDISON

REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

> IL RTE. 50-83 (CICERO AVE.)

NO. 6 GREEN EXISTING INTERSECTION-AND SAMPLING (SYSTEM) DETECTORS

CABLE PLAN

MIDLOTHIAN TURNPIKE

o ↓ o

В

NO. 6 GREEN

GREEN

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SCHEDULE OF QUANTITIES

<u>UANT I TY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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 HEAD, 3 - SECTION EACH SIGNAL HEAD, 5 - SECTION

SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5 SECTION EACH

SIGNAL HEAD, 2 - FACE, 5 SECTION EACH TRAFFIC SIGNAL BACKPLATE

SIGNAL POST EACH

> TS #2655 CRESTWOOD

- TRACER CABLE

INTERCONNECT

TO 137TH ST.

→�→ Z

USER NAME = _USERNAME_ DESIGNED REVISED DW DRAWN CC REVISED CHECKED REVISED PLOT DATE = 7/9/2014 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY TOTAL SHEET NO. COOK 61 54 SECTION IL ROUTE 50-83 (CICERO AVENUE) AT MIDLOTHIAN TURNPIKE SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM 2014-043TS CONTRACT NO. 60Y41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.

PHASE DESIGNATION DIAGRAM

I. D. O. T.								
TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL S	SERVI CE	REQUIR	EMENTS				
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	8	1 35	1 7	0.50	68			
(YELLOW)	8	1 35	25	0.25	50			
(GREEN)	12	1 35	15	0.25	45			
ARROW	4	1 35	12	0.10	5			
PED. SIGNAL	2	90	25	1.00	50			
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								
				TOTAL =	318			

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT ILYAS MOHIUDDIN
PHONE 708-235-2692

COMMONWEALTH EDISON

DRIVE NO. 6 GREEN м վ⊢о 5 PRIVATE 135TH ST. DRIVE <u>`</u>_N0.6 GREEN 7-PXXXX AVE. LONG

PRIVATE

CABLE PLAN

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UN I T</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

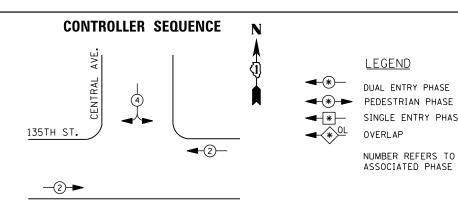
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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 PUSH-BUTTON

TS #4030 CRESTWOOD

	USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		ARTH OTRET AT LONG ANEAUE		TION	COUNTY TOTAL	SHEET
		DRAWN -	CC	REVISED -	STATE OF ILLINOIS	135TH STREET AT LONG AVENUE SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM	2014	1-043TS	СООК 61	55
	PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	CONEDUCE OF CONTINUES, CADLE FEAR, AND FINAL DESIGNATION DIAGRAM			CONTRACT NO.	60Y41
	PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS		



LEGEND

OVERLAP

DUAL ENTRY PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

I. D. O. T.								
TRAFFIC SIGNAL INSTALLATION								
ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	6	1 35	1 7	0.50	51			
(YELLOW)	6	1 35	25	0.25	38			
(GREEN)	8	1 35	15	0.25	30			
ARROW		1 35	12	0.10				
PED. SIGNAL		90	25	1.00				
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								
TOTAL = 219								

SCHEDULE OF QUANTITIES

<u>QUANTITY</u> <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH EACH

> TS #4040 CRESTWOOD

											00.			
USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -			405711 03	TDEET AT OFNITDAL	AVENUE	F.A.	SECTION	COUNTY	TOTAL	SHE	ĘΠ
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS	SCHEDULE OF O		TREET AT CENTRAL Arie Pian and Ph	ASE DESIGNATION DIAGRAM	RIE.	2014-043TS	СООК	61	50	\vdash
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION		ZOANTITIES, SA	ADEL TEAM, AND TH	AUL DESIGNATION DIAGRAM			CONTRAC	T NO. 6	60Y4	11
PLOT DATE = 7/9/2014	DATE -		PEVISED -		SCALE, NITS SHEE	EET NO (OF SHEETS ST	A TO STA		TI I TNOTE				

CENTRAL 135TH ST. **2**—[]]

CABLE PLAN

ENERGY SUPPLY -

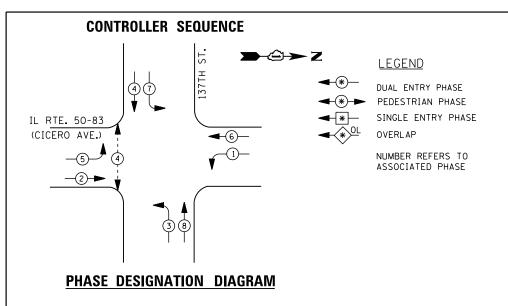
ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT ILYAS MOHIUDDIN

708-235-2692 COMMONWEALTH EDISON



I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	1 7	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
(GREEN)	12	1 35	15	0.25	45				
ARROW	16	1 35	12	0.10	20				
PED. SIGNAL	2	90	25	1.00	50				
CONTROLLER	1	1 00	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
	TOTAL = 392								

BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN

708-235-2692

PHONE

201 WEST CENTER COURT

COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

ENERGY COSTS-

ENERGY SUPPLY -

REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. GREEN REPLACE 18 FT. PAINTED POST. RE-USE EXISTING / TYPE A CONCRETE FOUNDATION. Y IL RTE. 50-83 (CICERO AVE.) C Y R ~ > U \ \ \ SYSTEM LOOPS-GREEN **○ ○ ○ ○** ე Y≯ <u>~~~~~</u> ы - TRACER TRACER-CABLE CABLE INTERCONNECT TO INTERCONNECT TO MIDLOTHIAN TURNPIKE 135TH ST. ST 137TH GREEN

CABLE PLAN

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
2	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

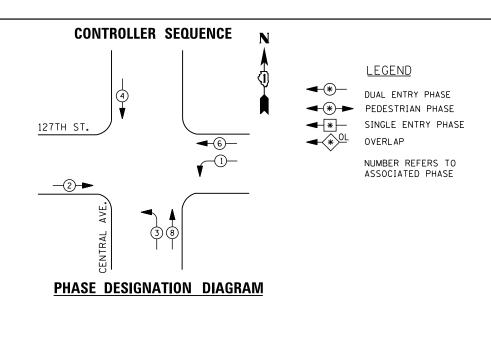
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

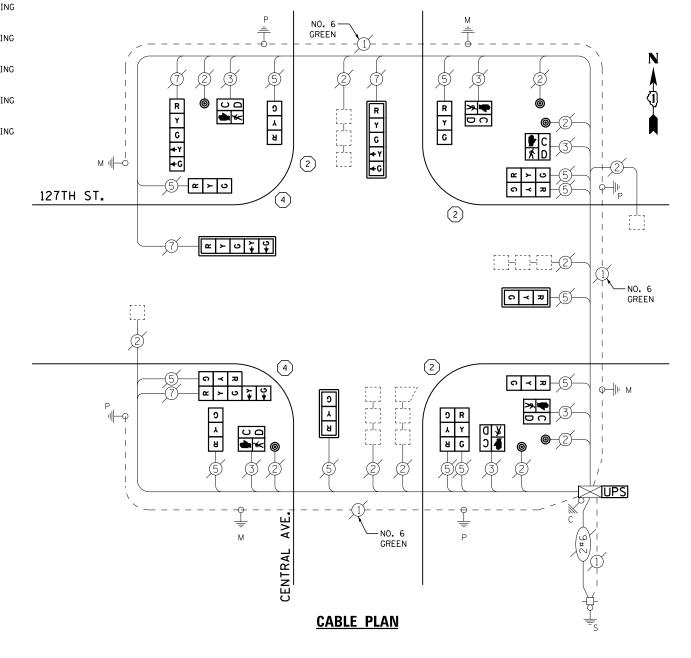
4 EACH SIGNAL HEAD, 3 - SECTION
8 EACH SIGNAL HEAD, 5 - SECTION
8 EACH TRAFFIC SIGNAL BACKPLATE
2 EACH PEDESTRIAN SIGNAL HEAD
2 EACH PEDESTRIAN PUSH-BUTTON
3 EACH SIGNAL POST

TS #20366 CRESTWOOD

USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		IL ROUTE 50–83 (CICERO AVENUE) AT 137TH STREET SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM		F.A. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.		
	DRAWN -	CC	REVISED -	STATE OF ILLINOIS				2014-043TS	соок	61 57		
PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION						T NO. 60Y41		
PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO.	OF SHEETS	STA.	TO STA.		ILLINOIS		



1	REPLACE 10 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTI
2	REPLACE 14 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTI
3	REPLACE 15 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTI
4	REPLACE 16 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTI
5	REPLACE 18 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE	EXISTI



		I. D. O. T.	
	TRAFFIC S	IGNAL INSTALLA	TION
	ELECTRICAL	SERVICE REQUIR	EMENTS
TYPE	NO. LAMPS	WATTAGE	% OPERATION
		INCAND. LED	

0	ELECTRICAL SERVICE REGULATION							
Shee	TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL		
CAD			INCAND.	LED		WATTAGE		
sıgn	SIGNAL (RED)	16	1 35	17	0.50	136		
ED#6\DesignCAD\	(YELLOW)	16	1 35	25	0.25	100		
LED"	(GREEN)	16	1 35	15	0.25	60		
Co. L	ARROW	8	1 35	12	0.10	10		
Cook	PED. SIGNAL	6	90	25	1.00	150		
	CONTROLLER	1	100	100	1.00	100		
South	ILLUM. SIGN		252	25	0.05			
002	VIDEO SYSTEM		150	-	1.00			
14-0								
W0"14-								
ΑR	FLASHER LED							

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

TOTAL =

556

ENERGY SUPPLY -

 CONTACT
 ILYAS MOHIUDDIN

 PHONE
 708-235-2692

 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

<u>QUANT I TY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
6	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

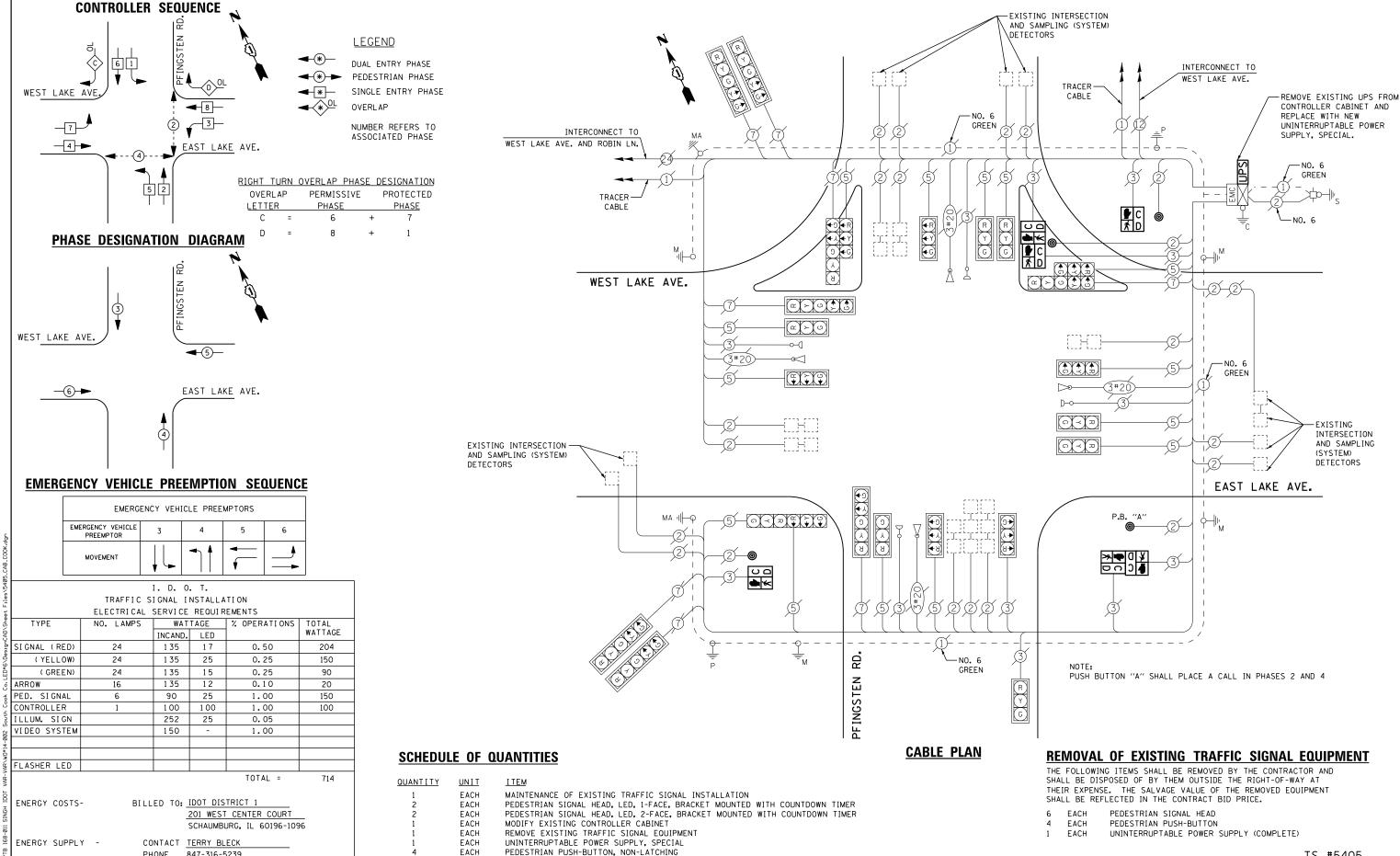
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

7 EACH SIGNAL HEAD, 3 - SECTION
3 EACH SIGNAL HEAD, 5 - SECTION
2 EACH SIGNAL HEAD, 2 - FACE, 3 SECTION
1 EACH SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5 SECTION
4 EACH TRAFFIC SIGNAL BACKPLATE
6 EACH PEDESTRIAN SIGNAL HEAD
6 EACH PEDESTRIAN PUSH-BUTTON
5 EACH SIGNAL POST

TS #3985 CRESTWOOD

									0	.005
	USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -	STATE OF ILLINOIS	127TH STREET AT CENTRAL AVENUE SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM		SECTION	COUNTY	TOTAL SHEET
[DRAWN -	CC	REVISED -				2014-043TS	соок	61 58
	PLOT SCALE = 20.000 '/ in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	Control of			CONTRAC	T NO. 60Y41
	PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS		



847-316-5239

USER NAME = _USERNAME

PLOT DATE = 7/9/2014

PLOT SCALE = 20.000 '/ in.

COMMONWEALTH EDISON

DESIGNED

CHECKED

DRAWN

DATE

DW

CC

REVISED

REVISED

REVISED

REVISED

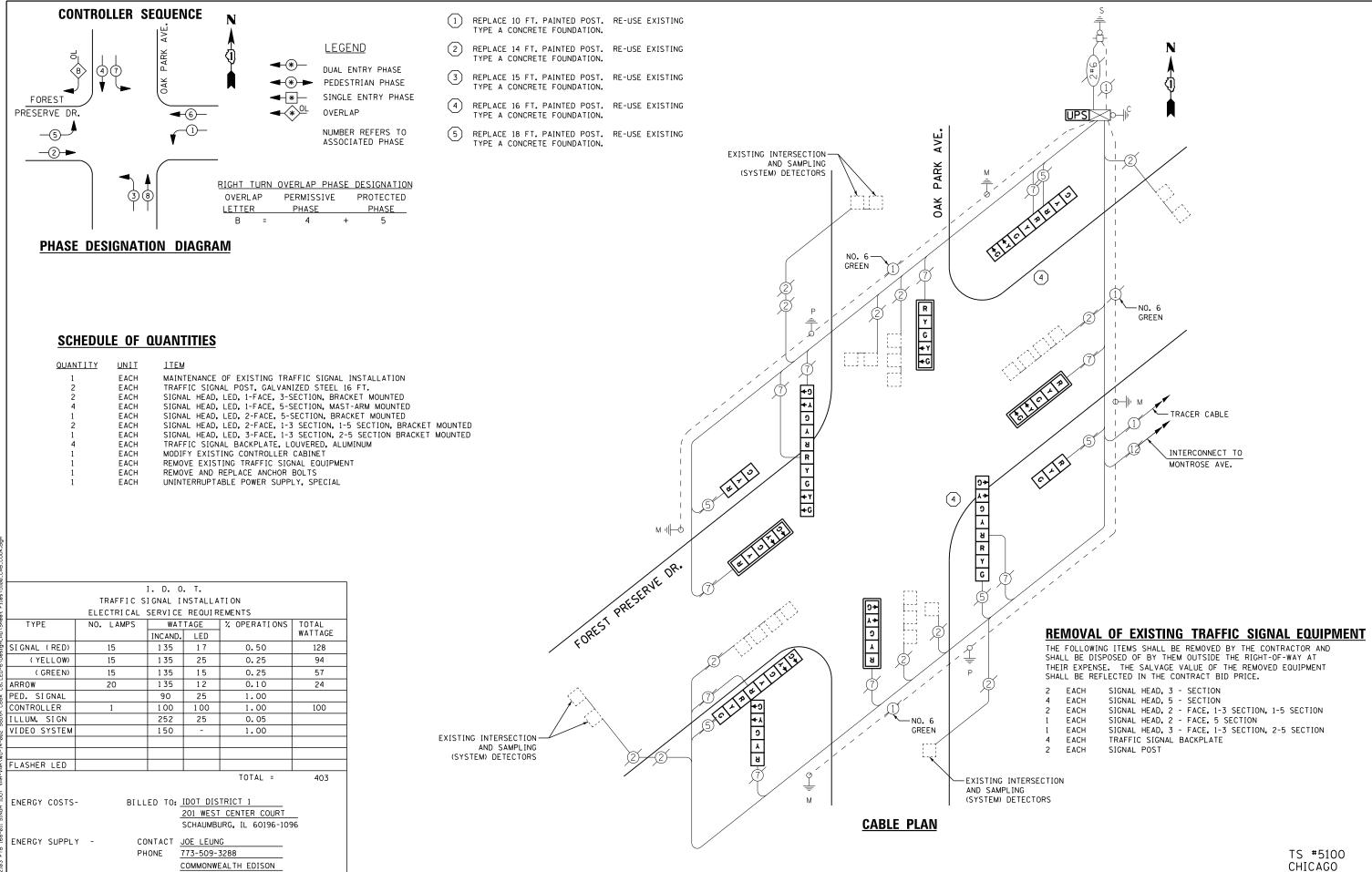
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PFINGSTEN ROAD AT EAST LAKE AVENUE SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

GLENVIEW COUNTY 2014-043TS COOK 61 59 CONTRACT NO. 60Y41

SECTION

TS #5405



USER NAME = _USERNAME_

PLOT DATE = 7/9/2014

DESIGNED

CHECKED

DRAWN

DATE

DW

CC

REVISED

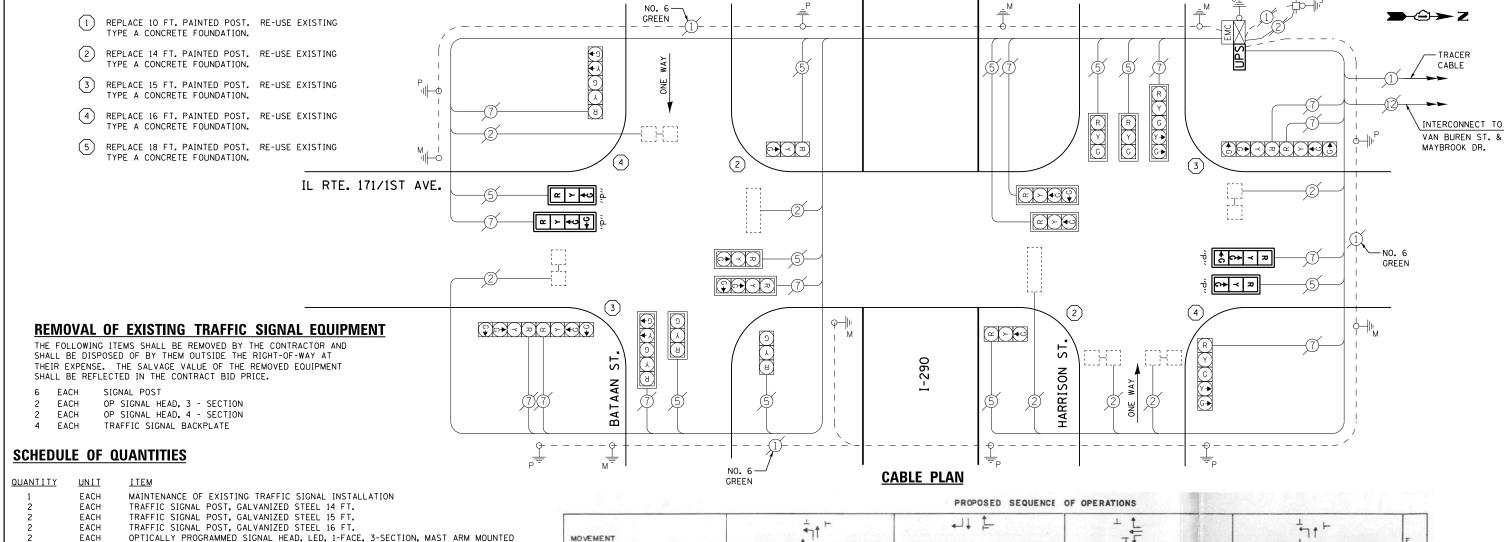
REVISED

REVISED

REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY TOTAL SHEET NO. SECTION FOREST PRESERVE DRIVE AT OAK PARK AVENUE COOK 61 60 SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM 2014-043TS CONTRACT NO. 60Y41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.



QUANTITY	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE AND REPLACE ANCHOR BOLTS
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
		I. D. O. T.

TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
GIGNAL (RED)	22	1 35	17	0.50	187					
(YELLOW)	22	1 35	25	0.25	138					
(GREEN)	30	1 35	15	0.25	113					
RROW	8	1 35	12	0.10	10					
PED. SIGNAL		90	25	1.00						
ONTROLLER	1	100	100	1.00	100					
LLUM. SIGN		252	25	0.05						
IDEO SYSTEM		150	-	1.00						
LASHER LED										

TOTAL = 548

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO PHONE 630-424-5704

PHASE INTERVAL

CHANGE

IST AVE N/B AT BATA AN E/B NEAR RIGHT AND MID MOUNT MAST ARM SIGNALS

MAST ARM SIGNALS

IST AVE N/B AT BATAAN E/B
FAR LEFT AND END MOUNT
MAST ARM SIGNALS

IST AVE N/B AT HARRISON ST W/B
MID MOUNT
MAST ARM SIGNAL

IST AVE N/B AT HARRISON ST W/B
FAR LEFT AND END MOUNT
MAST ARM SIGNALS

IST AVE S/B AT HARRISON ST W/B
FAR LEFT AND MID MOUNT
MAST ARM SIGNALS

IST AVE S/B AT HARRISON ST W/B
FAR LEFT AND END MOUNT
MAST ARM SIGNALS

IST AVE S/B AT HARRISON ST W/B
FAR LEFT AND END MOUNT
MAST ARM SIGNALS

IST AVE S/B AT HARRISON ST W/B
FAR LEFT AND END MOUNT
MAST ARM SIGNALS

IST AVE S/B AT BATAAN E/B

I ST AVE S/B AT BATA AN E/I

MAST ARM SIGNAL
I STAVE S/B AT BATAAN E/B
FAR LEFT AND END MOUNT
MAST ARM SIGNALS BATA AN E/B NEAR RIGHT AND MID MOUNT MAST ARM SIGNALS

BATAAN E/B FAR LEFT AND

END MOUNT MAST ARM SIGNAL

TO

HARRISON W/B NEAR RIGHT AND INSIDE MOUNT MAST ARM SIGNALS HARRISON W/B MID MOUND AND END MOUNT MAST ARM SIGNALS NOTE: WHERE DOUBLE CLEARANCE INTERVALS ARE REQUIRED

2A 2B 2C 2D 3A 3B

2 OR 3

5A

5B 5C 5D

1 OR 4

6A 68

\$

R

7 8A 8B 8C 8D

1 CR 4

RR

9A 9B 10 11A 11B 12A 12B 12C 12 D

2 OR 3

TS #100 MAYWOOD							
UNTY	TOTAL SHEETS	SHEET NO.					
соок	61	61					

COMMONWEALTH EDISON					MAYWOOD			
	USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -		IL DOUTE 474 (40T AVENUE AT L 200 FIGURIANIER EVERTECHNAV/HARRICON CERTET	F.A. SECTION	COUNTY TOTAL SHEET
		DRAWN -	CC	REVISED -	STATE OF ILLINOIS	IL ROUTE 171 /1ST AVENUE AT I–290 EISENHOWER EXPRESSWAY/HARRISON STREET SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM	2014-043TS	COOK 61 61
	PLOT SCALE = 20.000 ' / in.	CHECKED -	JDH	REVISED -	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 60Y41
	PLOT DATE = 7/9/2014	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS	