11-9-12 LETTING ITEM 068

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN SOUTHWEST LAKE COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION **SECTION 2012–039TS** LAKE COUNTY

C-91-486-12

HIGHWAY STANDARDS

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701006-03 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701101-02 OFF-ROAD OPERATIONS MULITLANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

URBAN LANE CLOSURE MULTILANE INTERSECTION

701901-02 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAIL

720006-03 SIGN PANEL ERECTION DETAILS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

UNITERRUPTABLE POWER SUPPLY (UPS)

ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER: SUDUD MAHMOUD

PROJECT MANAGER: DARYLE DREW

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

LOCATION MAP SEE SHEET NO. 3

LAKE COUNTY

LOCATION OF SECTION INDICATED THUS: -

SECTION

2012-039TS

LAKE 84 1

ILLINOIS CONTRACT NO. 60T84

D-91-486-12

Expires 11-30-2013

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY

OF THE STATE OF ILLINOIS

8619 W. Bryn Mawr Ave., Suite 602 773-283-2600 Fax: 773-283-2602

CONTRACT NO. 60T84

1-800-892-0123 OR 811

INDEX OF SHEETS

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   39 6759
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   40 6775
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80 21350
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43 966
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   46 6955
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                                                                                             84 7152
                                                                                                           IL ROUTE 176 AT LARKDALE ROW
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GENERAL NOTES:

- 1. CONTRACTOR SHALL REPLACE BROKEN 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.
- 3. DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTORSHALL 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:
969 - US ROUTE 12 (RAND RD.) AT DEER PARK BLVD.

VILLAGE OF DEER PARK 23680 W. CUBA ROAD DEER PARK, IL 60010-2490 847-726-1648 REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148 630-317-5700

RLR CAMERA LOCATION: 7150 - IL ROUTE 176 AT OLD RAND RO.

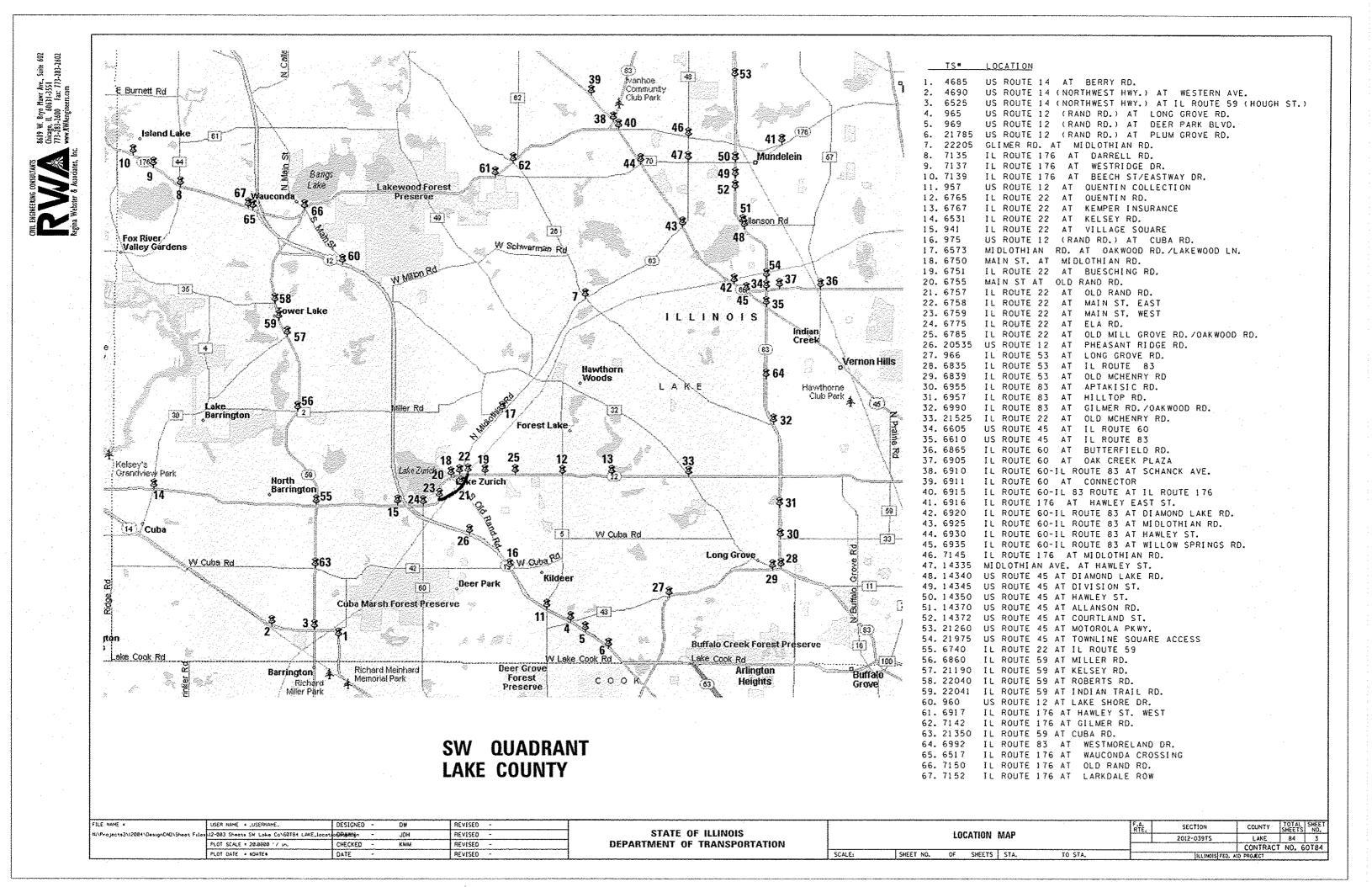
VILLAGE OF WAUCONDA 101 N. MAIN STREET WAUCONDA, IL 60084 847-526-9600

REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148 630-317-5700

4.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING BOLT PATTERN ON EXISTING FOUNDATIONS THAT ARE SPECIFIED TO BE RE-USED.

- 5. ANY ADDITIONAL CABLE LENGTHS NECESSARY FOR THE PROPOER 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 "JULLE" 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.

F)	E NAME *	user name . Lusername.	DESIGNED -	DW	REVISED -		-						F.A.	SECTION	COUNTY	TOTAL 5	HEET
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								FUN	DING PAR	RTICIPA	TION											
COLUMN NUMBER		INTERSECTION	STATE	LAKE	BARRINGTON	DEER PARK	ISLAND LAKE	KILDEER	LAKE ZURICH	LONG GROVE	MUNDELEIN	TOWER LAKES	VERNON HILLS	WAUCONDA	BARRINGTON LIBRARY	CUSHMAN & WAKEFIELD OF ILLINOIS	ELA TWP.	LIBERTYVILLE TWP.	MOTOROLA	THRIVENT FINANCIAL	WAUCOND TWP.	DA CUBA
6	4685	US ROUTE 14 AT BERRY RD.	95%												5%							
5	4690	US ROUTE 14 (NORTHWEST HWY.) AT WESTERN AVE.	97.5%		2.5%						-											
1	6525	US ROUTE 14 (NORTHWEST HWY, ) AT 1L ROUTE 59 (HOUGH ST.)	100%																			
4	965	US ROUTE 12 (RAND RD.) AT LONG GROVE RD.	95%	5%	-														T			
- 8	969	US ROUTE 12 (RAND RD.) AT DEER PARK BLVO.	95%			2.5%		2, 5%														
7	2178	S US ROUTE 12 (RAND RD.) AT PLUM GROVE RD.	95%			5%																
4	2220	S GLIMER RD. AT MIDLOTHIAN RD.	95%	5%	ľ	T										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
4	7135	IL ROUTE 176 AT DARRELL RO.	95%	5%												<del></del>						
9	7137	IL ROUTE 176 AT WESTRIDGE DR.	95%	1			5%											***				1
9	7139	IL ROUTE 176 AT BEECH ST/EASTWAY DR.	95%				5%									· · · · · · · · · · · · · · · · · · ·		·····				
10	957	US ROUTE 12 AT QUENTIN COLLECTION	96, 7%	1				3. 3%				-				<del></del>			<u> </u>			1
4	6765	IL ROUTE 22 AT OUENTIN RD.	95%	5%			1									· ; · · · · · · · · · · · · · · · · · ·			ļ			<del></del>
11	6767	IL ROUTE 22 AT KEMPER INSURANCE	95%	1			l									5%						1
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4	975	<del></del>	95%	5%		<b></b>	<del> </del>			-						<del></del>			<b> </b>		<del></del>	
14	<del></del>	MIDLOTHIAN RD. AT OAKWOOD RD./LAKEWOOD LN.	95%	<b>-</b>		<u> </u>	<del> </del>		2, 5% -								2.5%		ļ			+
T		MAIN ST. AT MIDLOTHIAN RD.	100%	<b> </b>		<b></b>	†							~-~	······································				ļ			-
12	6751		95%	<del> </del>			<del> </del>		5%							·			<del> </del>			+
<del>}</del>	1	MAIN ST. AT OLD RAND RD.	95%	<del> </del>		<del> </del>	<del> </del>		5%										<del> </del>			+
<del> </del>	+	IL ROUTE 22 AT OLD RAND RD.	95%	<del> </del>			<b> </b>		5%										<u> </u>			
<del></del>	7	IL ROUTE 22 AT MAIN ST. EAST	100%	<del> </del>		<del> </del>															~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
<del></del>	<del> </del>	IL ROUTE 22 AT MAIN ST. WEST	100%	<del> </del>		ļ	<u></u>												<u> </u>		<del></del>	
<del></del>	<del></del>	IL ROUTE 22 AT ELA RD.	95%	2, 5%		<u> </u>	<u> </u>		2.5%							······································						
<del></del>	<del></del>	IL ROUTE 22 AT OLD MILL GROVE RD./OAKWOOD RD.	95%	1 24			<u> </u>		5%												<del></del>	<del></del>
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·	<del> </del>	IL ROUTE 53 AT LONG GROVE RD.	96. 7%	<del> </del>		<u> </u>			3/2	3, 3%												
15	1		100%	<u> </u>		ļ	ļ			3, 3/		-	-					······			<del></del>	
<del></del>	<del></del>	IL ROUTE 53 AT IL ROUTE 83	95%	2. 5%			<del> </del>			2.5%	<del></del>					· · · · · · · · · · · · · · · · · · ·						
17	6839		96. 7%	<del></del>			ļ			2.5%						· · · · · · · · · · · · · · · · · · ·						
3	6955	<u> </u>	<del>-{</del>	3. 3%	<u> </u>		<del> </del>											<del></del>				
<del> </del>	1	IL ROUTE 83 AT HILLTOP RO.	95%				<del> </del>			5%						<del></del>		· · · · · · · · · · · · · · · · · · ·				
<del> </del>	<del></del>	IL ROUTE 83 AT GILMER RD./OAKWOOD RO.	95%	2, 5%			ļ			2. 5%								· · · · · · · · · · · · · · · · · · ·	<b></b>			
4	<del></del>	5 IL ROUTE 22 AT OLD MCHENRY RD.	95%	5%			<b> </b>														·	
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	1	1L ROUTE GO AT BUTTERFIELD RD.	95%	5%																		
20	<del> </del>	IL ROUTE 60 AT OAK CREEK PLAZA	95%	ļ				<del>,</del>			5%					<del></del>					<del></del>	
	+	IL ROUTE 60-IL ROUTE 83 AT SCHANCK AVE.	100%	ļ																		
20	<del> </del>	IL ROUTE 60 AT CONNECTOR	95%	<del> </del>							5%											
1	· · · · ·	IL ROUTE 60-IL 83 ROUTE AT IL ROUTE 176	100%	<u> </u>	ļ																	
<del></del>	1	IL ROUTE 176 AT HAWLEY EAST ST.	96. 7%	<u> </u>							3. 3%										<del> </del>	
21	<del></del>	IL ROUTE 60-IL ROUTE 83 AT DIAMOND LAKE RD.	95%	2.5%														2, 5%				
<u> </u>	<del></del>	IL ROUTE 60-IL ROUTE 83 AT MIDLOTHIAN RD.	100%																		····	
4	6930	IL ROUTE 60-IL ROUTE 83 AT HAWLEY ST.	95%	5% v	r		{			İ	1	1	į									

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COLUMN NUMBER	TS#	INTERSECTION	STATE	LAKE	BARRINGTON	DEER PARK	ISLAND LAKE	KILDEER	LAKE ZURICH	LONG GROVE	MUNDELEIN	TOWER LAKES	VERNON HILLS	WAUCONDA	BARRINGTON LIBRARY	CUSHMAN & WAKEFIELD OF ILLINOIS	ELA TWP.	LIBERTYVILLE TWP.	MOTOROLA	THRIVENT FINANCIAL		A CUBA TWP.
18	6935	IL ROUTE 60-IL ROUTE 83 AT WILLOW SPRINGS RD.	97.5%					***************************************			2.5%											
2	7145	IL ROUTE 176 AT MIDLOTHIAN RD.	97.5%	2. 5%								- Parish										
4	14335	MIDLOTHIAN AVE. AT HAWLEY ST.	95%	5%									44									
20	14340	US ROUTE 45 AT DIAMOND LAKE RD.	95%								5%			i	]							
20	14345	US ROUTE 45 AT DIVISION ST.	95%	ŀ							5%						1		1			
4	<del>-14350</del>	US NOUTE 45 AT HANCEY ST.		-5/-							-						<u> </u>					
19		US ROUTE 45 AT ALLANSON RD.	96. 7%	1							3. 3%						1		İ			
20	14372	US ROUTE 45 AT COURTLAND ST.	95%								5%											_
23	21260	US ROUTE 45 AT MOTOROLA PKWY.	96.7%																3. 3%			
22	21975	US ROUTE 45 AT TOWNLINE SQUARE ACCESS	96.7%																İ	3. 3%		1
	6740	IL ROUTE 22 AT IL ROUTE 59	100% -								T	1		T			l		ļ			1
4	6860	IL ROUTE 59 AT MILLER RD.	95%	5%			***************************************	1				1		<del> </del>	<u> </u>		ļ					1
3	21190	IL ROUTE 59 AT KELSEY RD.	96. 7%	3. 3%								1	<del>                                     </del>		<u> </u>			<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>				1
- 25	22040	IL ROUTE 59 AT ROBERTS RD.	95%	2. 5%								2.5%										
24	22041	IL ROUTE 59 AT INDIAN TRAIL RD.	95%								<del></del>	5%		<del></del>	-							1-
26	960	US ROUTE 12 AT LAKE SHORE DR.	95%	1				1				<u> </u>	<b>†</b>	<del> </del>	***************************************	-					5%	+
3	6917	IL ROUTE 176 AT HAWLEY ST. WEST	96. 7%	3. 3%				<del> </del>			ļ	<del> </del>	<b></b>	1			1	<del></del>	·			+
		IL ROUTE 176 AT GILMER RD.	95%	5%		-						<del> </del>	<del> </del>	<del> </del>	<del> </del>		<del> </del>					+
		IL ROUTE 59 AT CUBA RD.	95%	2.5%		-			<b></b>		<del> </del>	<u> </u>	<u> </u>									2, 5%
<u> </u>		IL ROUTE 83 AT WESTMORELAND OR.	96.7%	<b></b>	†			<del> </del>	<u> </u>			<del> </del>	3. 3%	<del> </del>								+****
29	6517	IL ROUTE 176 AT WAUCONDA CROSSING	95%	1	1		·		<u> </u>				<u> </u>	5%								-
		IL ROUTE 176 AT OLD RAND RD.	95%					<u> </u>			1		<b></b>	5%								+
	<del></del>	IL ROUTE 176 AT LARKDALE ROW	95%	<u> </u>	<u> </u>			<del> </del>				<del></del>		5%				<del>~~~ ~</del>	<u> </u>			+
		IL ROUTE 176 AT DARRELL RD. (EVP)					100%	<del></del>	<del> </del>			<u> </u>	<del> </del>					<del></del>				+
		MAIN ST. AT MIDLOTHIAN RD. (EVP)		<del> </del>	1			<del> </del>	100%			<b></b>	<del> </del>	<b></b>								+
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87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	26	4	$\perp$	15		<u> </u>	$\perp$	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th		4		_			1	-	2						4		_	11	_	
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88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	14	6		5			o de la constante							3					-		-	**********				-
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88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2						1						$\top$	2							11			_		
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88055350	OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 2-FACE. 3-SECTION, BRACKET MOUNTED	EACH	*						++						+			+			$\vdash$	+	++	-	++	+		+
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88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	53	10 2	1/	2	2		7		8	2	_		-	2	6		2									<u>.</u>
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88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	24	4 2				WWO III WAS INVESTIGATED AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	1		6	3					8	***************************************	***************************************	***************************************								
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 4 OF 7)

SCALE: SHEET NO. OF SHEETS SYA.

TO STA.

AL SECTION COUNTY SHEETS NO.

2012-039TS LAKE 84 7

CONTRACT NO. 60T84

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SUN	MAR	Y OF QU/	ANTITIES		
		(SHE	ET 5 OF	7)		
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SECTION COUNTY TOTAL SHEET
PO12-039TS LAKE B4 8
CONTRACT NO. 60T84

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CPH ENGINERING CONCULTANTS

8619 W. Byrn Hawr Ave., Suite 602

Chinge, 14, 6051-3551

Chinge, 14, 6051-3551

Chinge Webster & Associates, Inc.

Regina Webster & Associates, Inc. CONSTRUCTION CODE

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TRAFFIC SIGNAL TOTAL QUANTITY CODE ITEM UNIT 0021 NO. URBAN X8808113 OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 1-FACE. 3-SECTION, BRACKET MOUNTED. RETROFIT EACH 2

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STATE OF ILLINOIS
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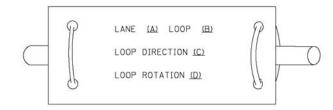
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CONTRACT NO. 60T84

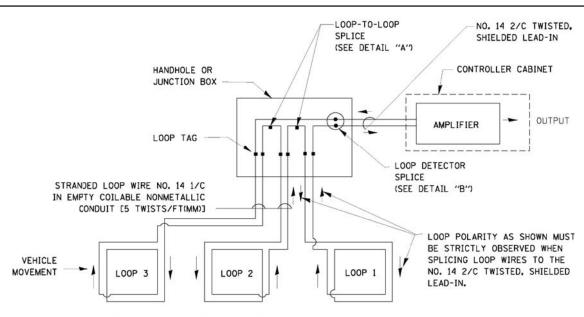
# LOOP DETECTOR NOTES

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

# LOOP LEAD-IN CABLE TAG

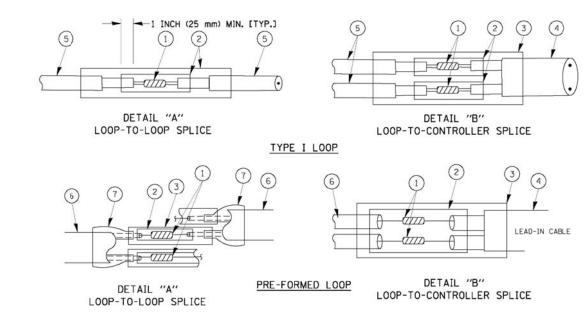


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



# DETECTOR LOOP WIRING SCHEMATIC

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



# LOOP DETECTOR SPLICE

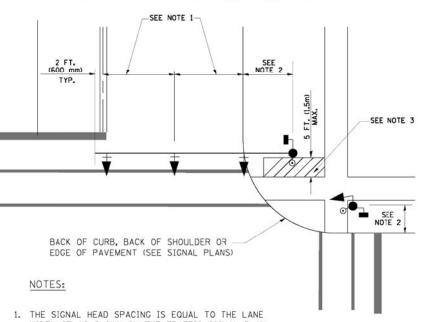
- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED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

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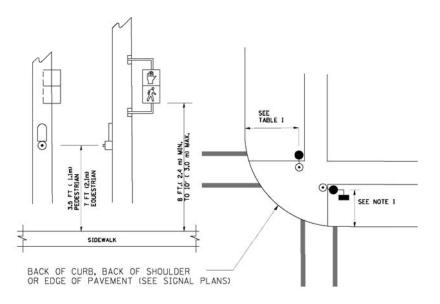
# TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



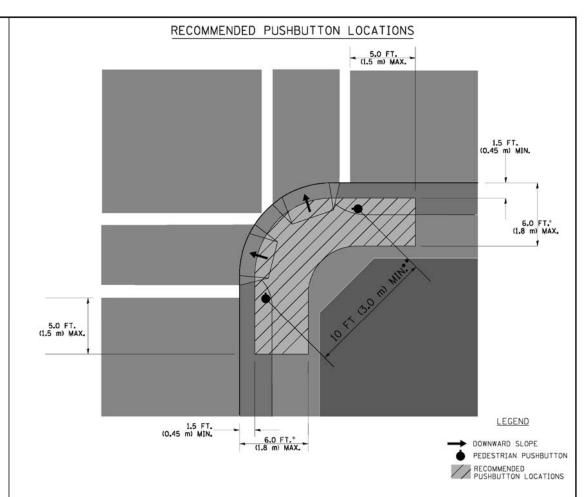
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF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

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

# NOTES:

- 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.
- 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.
- 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.
- 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.
- . 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

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

# NOTES:

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

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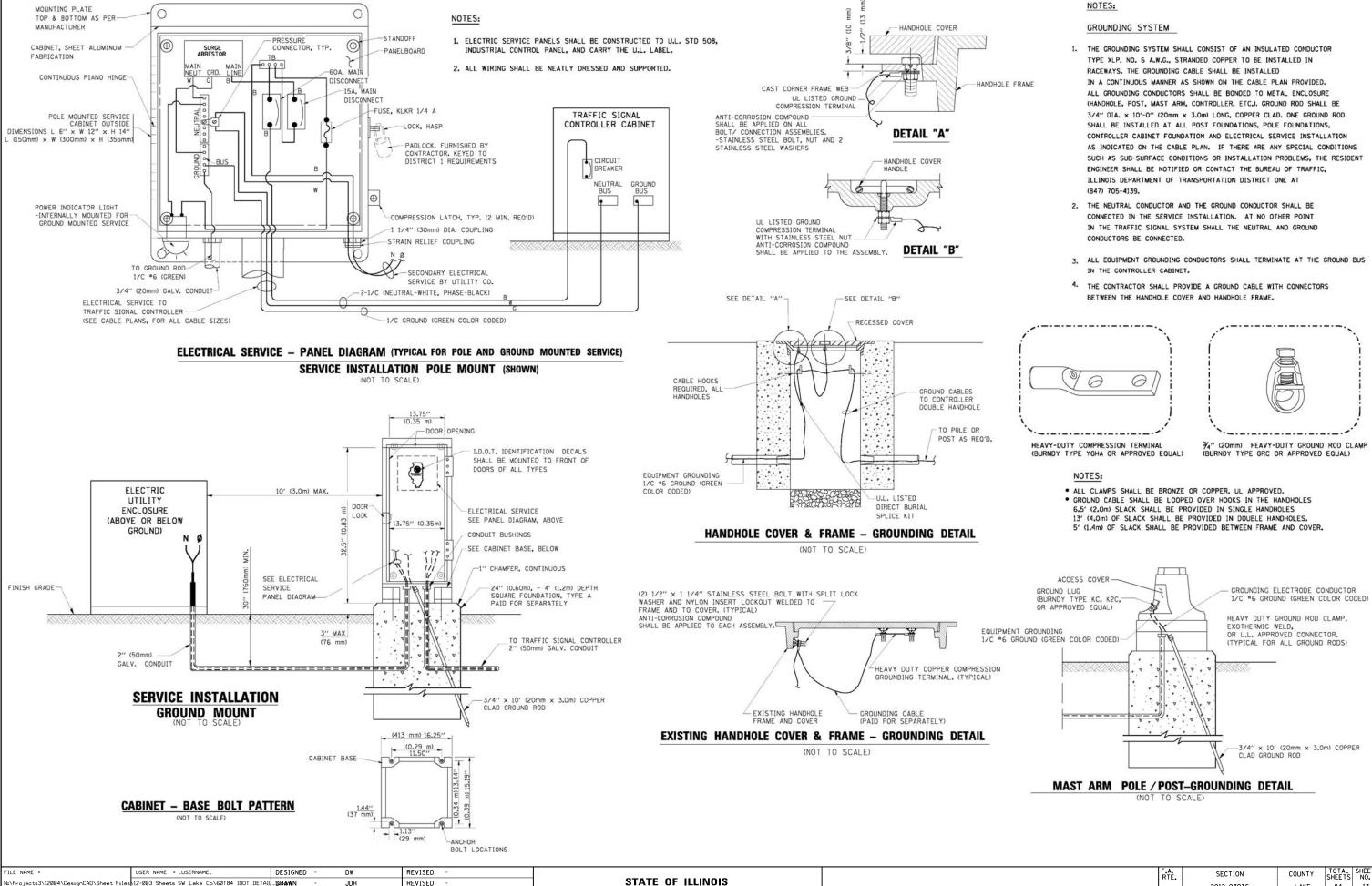
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**DEPARTMENT OF TRANSPORTATION** 

2012-039TS

DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS

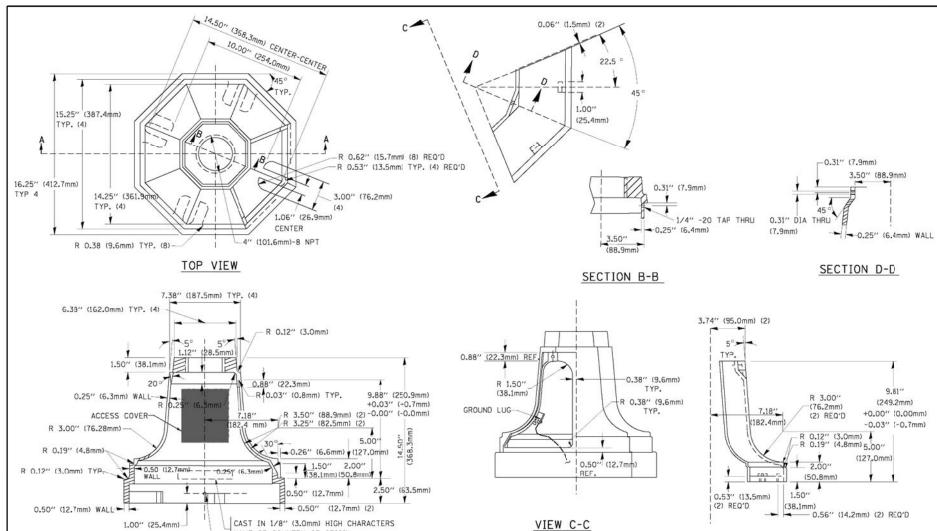
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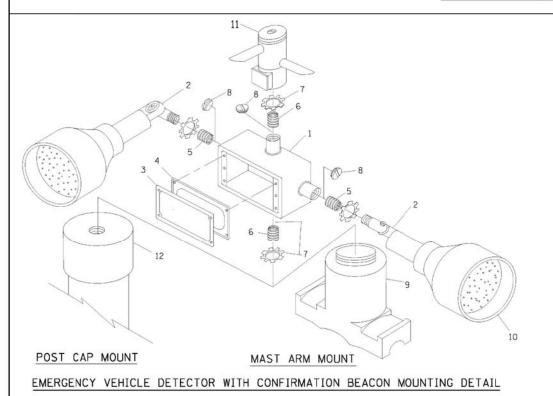
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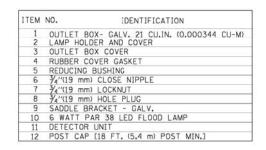


NAME OF COUNTRY OF ORIGIN

-1/4"-20 TAP THRU

1.00" (25.4mm)

SECTION A-A



# NOTES:

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

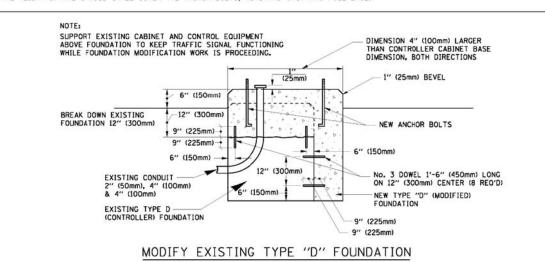
- 1, ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED.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

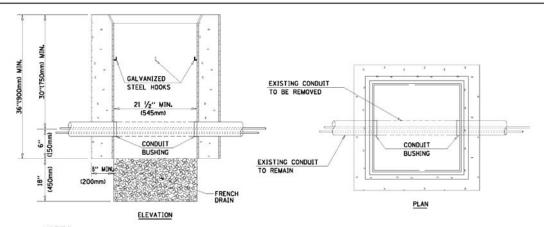
# В-В (75mm) -- B RO.50" 0.25" DRAIN 0.25" (6mm) PORT 0.25"-(6mm) -0.31"(8mm) MATERIAL: - 0.20"(5mm) - ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

АВ		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

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



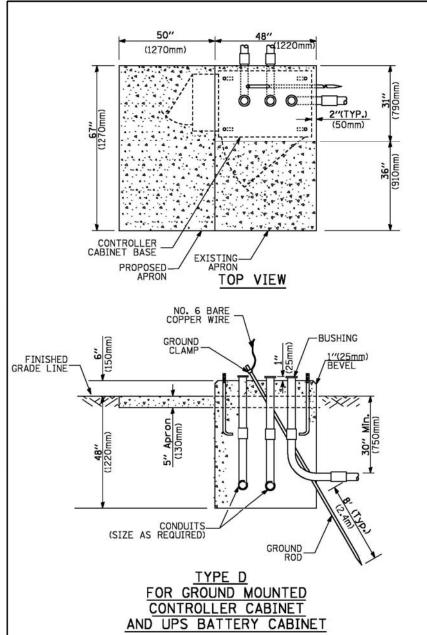


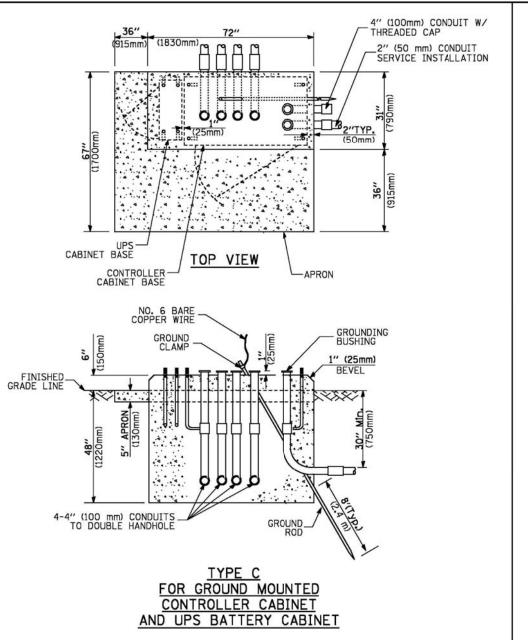
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

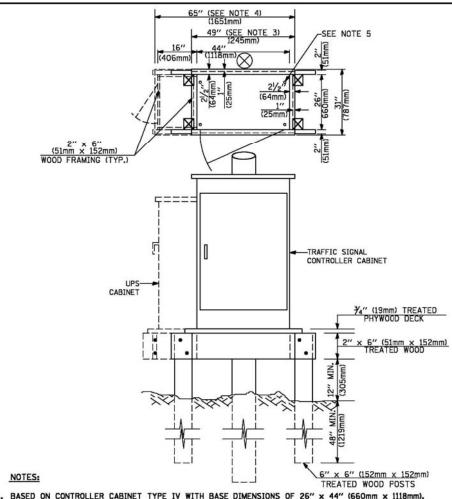
# HANDHOLE TO INTERCEPT EXISTING CONDUIT

										100							
FILE NAME =	USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -									F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\60T84 IDOT DETA	L-DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	D. 0		O	OT 4 5 1 D					2012-039TS	LAKE	84	14
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	DIS	IKICI	ONE -	STAND	AKD IKAF	FIC SIG	NAL DESIGN DETAILS			CONTRAC	T NO.	60T84
	PLOT DATE = \$DATE\$	DATE -		REVISED -		SCALE: N.T	Γ <b>.</b> S.	SHEET	NO. 4	OF 6 SHEET	TS STA.	TO STA.		ILLINOIS F	ED. AID PROJECT		









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

# TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

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

CABLE SLACK

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

# VERTICAL CABLE LENGTH

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

# DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebors
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:

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

# DEPTH OF MAST ARM FOUNDATIONS, TYPE E

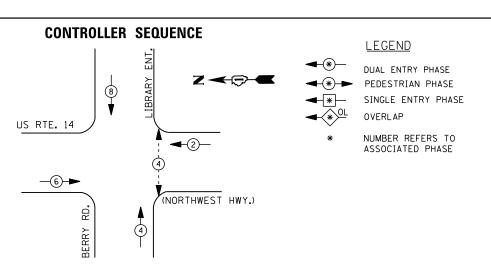
FILE NAME =	USER NAME = _USERNAME_	DESIGNED -	DW	REVISED -	•				F.A.	SECTION	COUNTY	TOTAL SHEETS	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\60T84 IDOT DETAIL	-ÐR∳WN -	JDH	REVISED -	STATE OF ILLINOIS	DIOTRICT .		CIONAL DECICAL DETAILS	1112	2012-039TS	LAKE	84	15
	PLOT SCALE = 20.0000 ' / 10.	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	DISTRICT	DNE - STANDARD TRAFFIC	SIGNAL DESIGN DETAILS			CONTRAC	T NO. F	0T84ء
	PLOT DATE = \$DATE\$	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. 5 OF 6 SHEETS	STA. TO STA.		ILLINOIS FED.	. AID PROJECT		

# CIVIL ENGINEERING CONSULTANTS 8619 W. Bryn Mawr Ave., Suite 602 Chicago, IL 60631-3551 773-283-2602 Regina Webster & Associates, Inc.

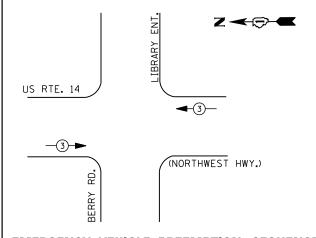
# TRAFFIC SIGNAL LEGEND

WIRELESS DETECTOR SENSOR		RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED  GROUND CABLE IN CONDUIT			<b>-</b> \$-	CROSSING GATE CROSSBUCK		<del>202</del>	<b>X</b> ⊕ <b>X←</b>
PAN, TILT, ZOOM CAMERA		R PT	Pīb	[Pi]■	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,	2		<u></u>	FLASHING SIGNAL		$\times \Theta \times$	<b>X⊕X</b>
VIDEO DETECTION ZONE					RADIO REPEATER	R ERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	2	X <del>OX X</del> X	X <del>XXX</del>
VIDEO DETECTION CAMERA		R [V]⊅	[V]	<b>(</b> V)•	RADIO INTERCONNECT	<del>     </del>	##+0	<u>  </u>  ++•	RAILROAD CONTROL CABINET			
MICROWAVE VEHICLE SENSOR		R M	M	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		<b>₽</b> c <b>&amp;</b> D	<b>₽</b> C <b>*</b> D			EXISTING	<u>PROPOSED</u>
PREFORMED DETECTOR LOOP			P	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		<b>()</b>	<b>₽</b> <b>X</b>	RAILROAD	<b>SYMB</b> (	OLS	
DETECTOR LOOP, TYPE I		_ <del>_</del>			INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		Įroj	PS
ILLUMINATED SIGN "NO RIGHT TURN"		R			WALK/DON'T WALK SYMBOL  12" (300mm) PEDESTRIAN SIGNAL HEAD		OW W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR  PREFORMED SAMPLING (SYSTEM) DETECTOR		PIS PS	PIS
ILLUMINATED SIGN "NO LEFT TURN"		R <b>S</b>		•	12" (300mm) PEDESTRIAN SIGNAL HEAD			<u>ا</u> ۳۳۰	PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	R	Į́PPĮ́	
ACCESSIBLE PEDESTRIAN PUS		R APS	@aps	⊚ APS	THE TOTAL STRUCTURE THE TENT		(*P**	<b>←</b> Y <b>←</b> G	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	R	Р	
PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSHBUTTON DET	ECTOR	-[] R ((())	-D (a)	<b>-</b> ∎ ⊚	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R	R Y G	SAMPLING (SYSTEM) DETECTOR  EXISTING INTERSECTION LOOP DETECTOR		S	S
(S DENOTES SOLAR POWER)		O-D>"F"		_				R	(SYSTEM) DETECTOR		IS	IS
FLASHER INSTALLATION	a veninine D	-D"P"	O-D″F″	<b>→</b> "F"	SIGNAL FACE		<b>)</b>	<b>←</b> Y	TO BE REMOVED  INTERSECTION & SAMPLING	O		
SIGNAL HEAD WITH BACKPLAT		+\(\sigma^{\sigma}\)	+I> - >∵p∵	+ <b>►</b> - <b>►</b> "P"	SICNAL FACE		<b>Y</b>	Y	SIGNAL POST AND FOUNDATION	RMF		
SIGNAL HEAD CONSTRUCTION (NUMBERS INDICATE THE CONS	TRUCTION STAGE)	R		<b>→</b> ²	YELLOW AND GREEN TRAFFIC SIGNAL FACE			R	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O-X-		
SIGNAL HEAD	71.050	R —		-	12" (300mm) RED WITH 8" (200mm)		R		FOUNDATION TO BE REMOVED			
GUY WIRE		R	>-	>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED  ALUMINUM MAST ARM POLE AND	RMF		
TEMPORARY WOOD POLE (CLAS BETTER) 45 FOOT (13.7m) MIN		$\overset{R}{\otimes}$	$\otimes$		RELOCATE ITEM ABANDON ITEM	KL A			STEEL MAST ARM POLE AND	ORMF		
SIGNAL POST		R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL COMBINATION MAST AR	М	R PM		PJIII	SYSTEM ITEM INTERSECTION ITEM		S I	S IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		с    —•	°∥⊢∙
STEEL COMBINATION MAST AR ASSEMBLY AND POLE WITH LU		RO-₩	0-×	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY)		Ć.	CNC	NOTED ON PLANS)  GROUND ROD AT (C) CONTROLLER,		<i>&gt;</i>	
STEEL MAST ARM ASSEMBLY ALUMINUM MAST ARM ASSEMB		R	0		AND CABLE  COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		<u> </u>	<del>-</del>
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOU		R T	P _T	T -	TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		—24F	—24F)—
(P) POLE OR (G) GROUND MOU	IT	- <u>-</u> -	-□- ^P	- <b>■</b> P	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)	_			FIBER OPTIC CABLE NO. 62.5/125, MM12F		— <u>12</u> F	
UNINTERRUPTIBLE POWER SUP	PLY	UPS	EUPS	UPS	DOUBLE HANDHOLE  JUNCTION BOX	R □ R		0	COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u></u>	<u>—6</u> —
MASTER MASTER CONTROLLER		R	EMMC	ммс	HEAVY DUTY HANDHOLE	R	H	H 	VENDOR CABLE FOR CAMERA		— <u>v</u>	
MASTER CONTROLLER			EMC	MC	HANDHOLE				VENDOD CARLE FOR CAMERA		$\sim$	
COMMUNICATIONS CABINET		C C R	E C C	СС		R			COAXIAL CABLE		<u> </u>	— <u>c</u> —
RAILROAD CONTROL CABINET					CONFIRMATION BEACON	R ₀ 0	o-(]	₩	NO. 14 1/C, UNLESS NOTED OTHERWISE			
ITEM CONTROLLER CABINET		REMOVAL R	EXISTING	PROPOSED	ITEM  EMERGENCY VEHICLE LIGHT DETECTOR	REMOVAL R ≪	<u>EXISTING</u> ≪	<u>PROPOSED</u>	ITEM  ELECTRIC CABLE IN CONDUIT, TRACER,	REMOVAL	EXISTING  1	PROPOSED  ——(1)——





# PHASE DESIGNATION DIAGRAM



# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE PREEMPTO	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	<b>←</b>

TRAFFIC SIGNAL INSTALLATION												
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL							
		INCAND.	LED		WATTAGE							
SIGNAL (RED)	14	1 35	17	0.50	119							
(YELLOW)	14	1 35	25	0.25	88							
( GREEN)	14	1 35	15	0.25	53							
ARROW	0	1 35	12	0.10	0							
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								
FLASHER LED												
				TOTAL =	410							

I. D. O. T.

ENERGY COSTS-

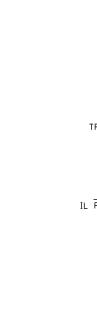
ENERGY SUPPLY -

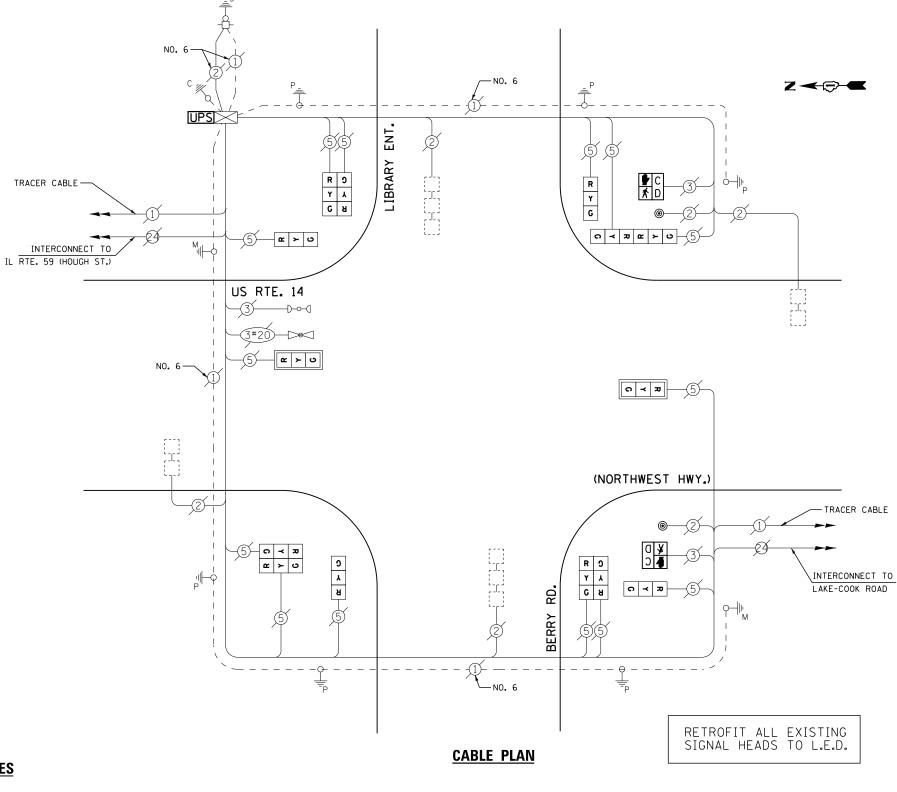
BILLED TO: VILLAGE OF BARRINGTON 200 SOUTH HOUGH STREET

BARRINGTON, IL 60010

CONTACT DAVE SCHACHT PHONE

630-437-2129 COMMONWEALTH EDISON





# **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UN I T</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN PUSH-BUTTON
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, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT

# REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

> TS# 4685 BARRINGTON

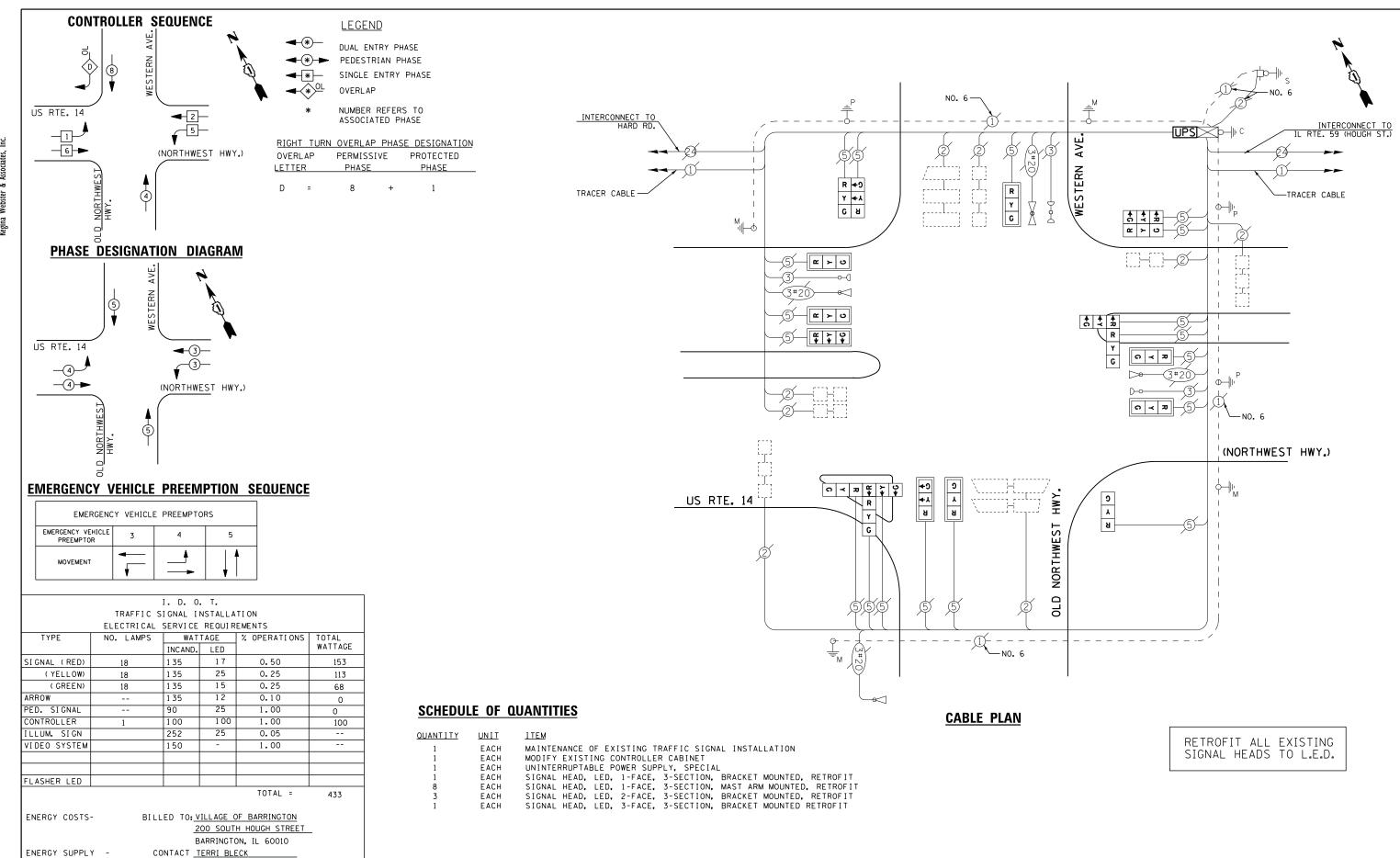
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 14 AT BERRY ROAD		F.A. RTF	SECTION	COUNTY	TOTAL	SHEET NO.				
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\04685_CAB_LAKE.do		JDH	REVISED -	STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM  2012-035						2012-039TS	LAKE	84	17		
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		SEGUENCE			CONTRAC	T NO. 6	OT84			
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



847-816-5239

COMMONWEALTH EDISON

PHONE

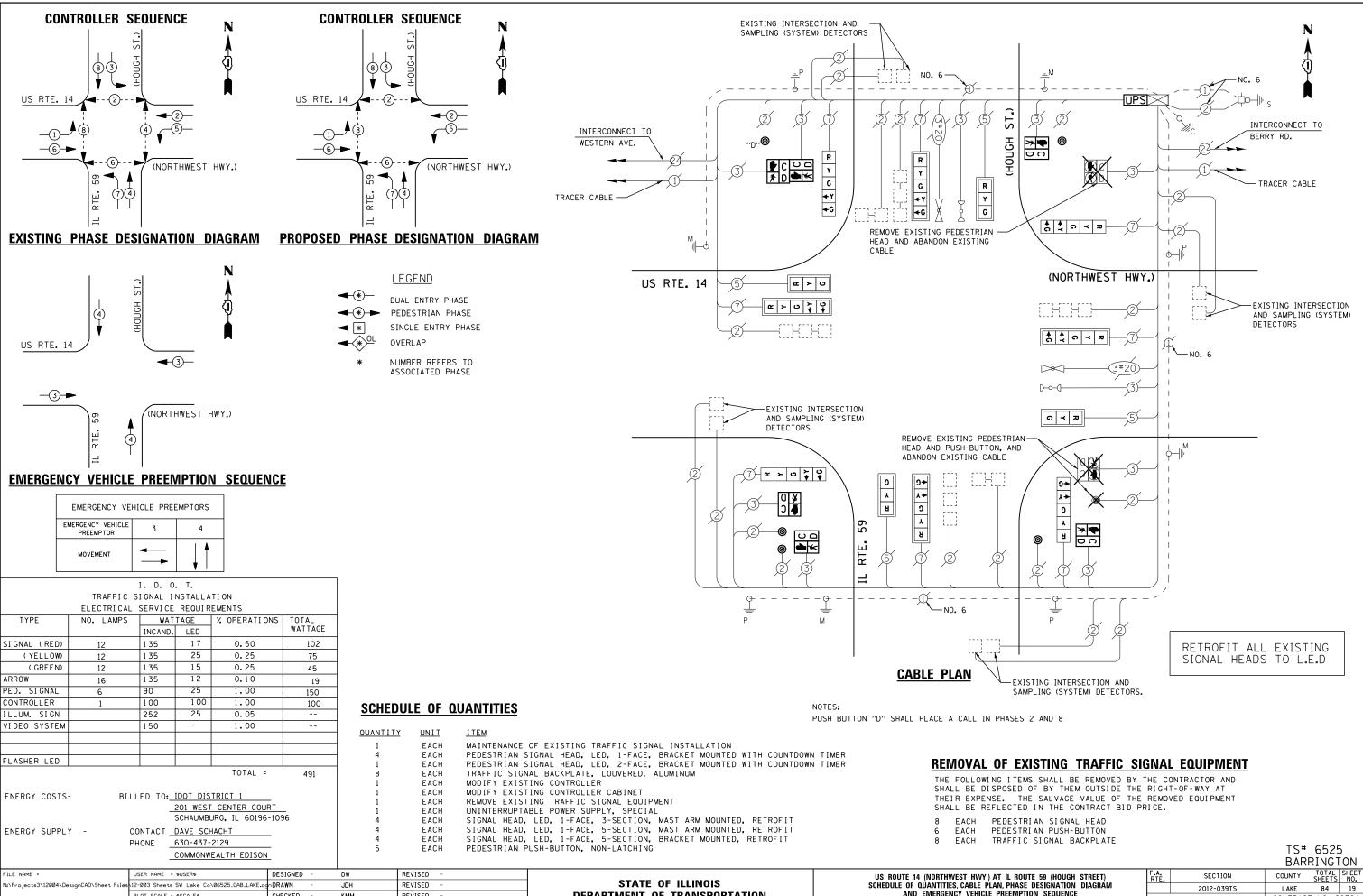


TS# 4690 BARRINGTON

COUNTY TOTAL SHEET NO.

LAKE 84 18 DESIGNED REVISED FILE NAME = U.S. ROUTE 14 (NORTHWEST HWY.) AT WESTERN AVENUE SECTION COUNTY STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\04690_CAB_LAKE.do DRAWN JDH REVISED SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM 2012-039TS AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60T84 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 8/23/2012 DATE REVISED





**DEPARTMENT OF TRANSPORTATION** 

CHECKED

DATE

PLOT DATE = 8/23/2012

КММ

REVISED

REVISED

2012-039TS

CONTRACT NO. 60T84

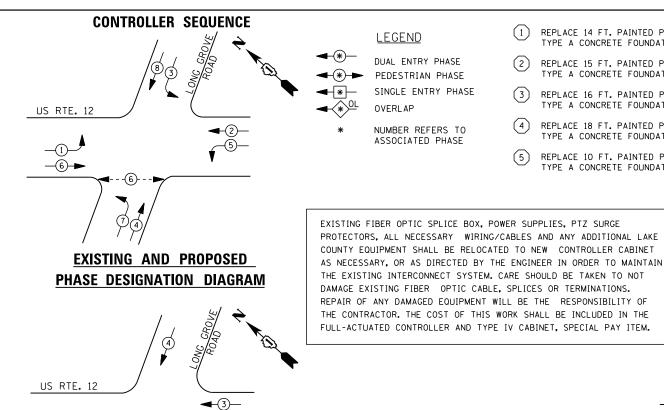
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

OF SHEETS STA.

SCALE: N.T.S.

SHEET NO.





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREI	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	1/1

		I. D. 0	. T.									
	TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS												
TYPE	NO. LAMPS	WATTAGE 7		% OPERATIONS	TOTAL							
		INCAND. LED			WATTAGE							
SIGNAL (RED)	14	1 35	17	0.50	119							
(YELLOW)	14	1 35	25	0.25	88							
( GREEN)	14	1 35	15	0.25	53							
ARROW	16	1 35	12	0.10	19							
PED. SIGNAL	2	90	25	1.00	50							
CONTROLLER	1	100	100	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM	1	150	-	1.00	150							
FLASHER LED												

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

PLOT DATE = 8/23/2012

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

579

ENERGY SUPPLY -

**−**3**->** 

CONTACT DAVE SCHACHT 630-437-2129 PHONE

COMMONWEALTH EDISON

**LEGEND** 

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

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

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

TRACER CABLE -

INTERCONNECT TO QUENTIN ROAD

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING

REPLACE 10 FT. PAINTED POST. RE-USE EXISTING

US RTE. 12

STATE OF ILLINOIS

SCALE: N.T.S.

**CABLE PLAN** 

<u>∝ ≻ ∪</u>

- C ≺ Z

⊃ <u></u>

US ROUTE 12 (RAND ROAD) AT LONG GROVE ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SHEET NO. OF SHEETS STA.

SECTION COUNTY LAKE 84 20 2012-039TS CONTRACT NO. 60T84

**SCHEDULE OF QUANTITIES** 

REVISED

<u>QUANTITY</u> <u>UN I T</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRANSCEIVER - FIBER OPTIC EACH TRANSCEIVER - FIBER OPTIC
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH FACH FACH EACH FACH EACH INDUCTIVE LOOP DETECTOR EACH EACH PEDESTRIAN PUSH-BUTTON RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL RELOCATE EXISTING SWITCH (SPECIAL) EACH RELOCATE EXISTING VIDEO ENCODER, SPECIAL * 100% COST TO DEER PARK

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

LONG GROVE RD.

10/4/0

NO. 6

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 $\triangleright$ 

-(3#20)

(RAND ROAD)

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

FACH SIGNAL HEAD, 3 - SECTION

SIGNAL HEAD, 5 - SECTION EACH

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

PEDESTRIAN SIGNAL HEAD

CONTROLLER AND CABINET (COMPLETE)

SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1-5-SECTION

PEDESTRIAN PUSH-BUTTON FACH FACH TRAFFIC SIGNAL BACKPLATE

SIGNAL POST EACH

EACH

TS# 965 DEER PARK

-TRACER CABLE

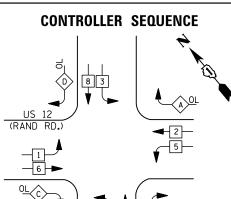
INTERCONNECT TO DEER PARK BLVD.

DESIGNED REVISED FILE NAME = USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet Fi 12-003 Sheets SW Lake Co\00965_CAB_LAKE.d DRAWN JDH REVISED CHECKED КММ REVISED

DATE

**DEPARTMENT OF TRANSPORTATION** 





# **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE

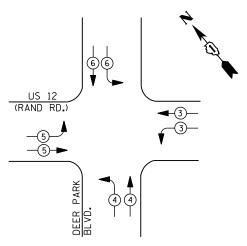
SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP		PERMISSIVE		PROTECTED		
LETTER	7	PHASE	PHASE			
Α	=	2	+	3		
В	=	4	+	5		
С	=	6	+	7		
D	=	8	+	1		

# PHASE DESIGNATION DIAGRAM



# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6				
MOVEMENT		<b>*</b>	<b>-</b>					

TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL	SERVI CE	REQUIR	EMENTS							
NO. LAMPS			% OPERATIONS	TOTAL						
	INCAND.	LED		WATTAGE						
20	1 35	1 7	0.50	170						
20	1 35	25	0.25	125						
20	1 35	15	0.25	75						
16	1 35	12	0.10	19						
	90	25	1.00							
1	100	1 00	1.00	100						
	252	25	0.05							
	150	150	1.00	-						
	NO. LAMPS  20 20 20 20 16	Columbia	Columbia	NO. LAMPS						

I. D. O. T.

TOTAL =

23680 W. CUBA ROAD DEER PARK, IL 60010

BILLED TO: VILLAGE OF DEER PARK

CONTACT DAVE SCHACHT ENERGY SUPPLY -PHONE 630-437-2129

FLASHER LED

ENERGY COSTS-

COMMONWEALTH EDISON

489

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

-WIRELESS ACCESS

POINT

GROUND MOUNT SERVICE W/ METER-

COMED TRANSFORMER-

**SCHEDULE OF QUANTITIES** 

TRACER CABLE

INTERCONNECT TO LONG GROVE ROAD

# TS# 969 DEER PARK

TRACER CABLE

INTERCONNECT TO PLUM GROVE ROAD

US RTE. 12

(RAND ROAD)

WIRELESS ACCESS

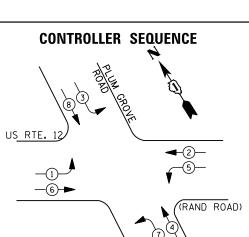
	<u>'</u>								טבר	LK FA	ואאי
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 12 (RAND ROAD) AT DEER PARK BLVD,	F.A.	SECTION	COUNTY	TOTAL S	HEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\00969_CAB_LAKE.do	∩DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012-039TS	LAKE	84	21
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	T NO. 60	T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	. AID PROJECT		

KILDEER RETAIL

DEER PARK BLVD.

**CABLE PLAN** 





# **LEGEND**

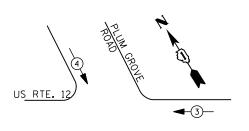
DUAL ENTRY PHASE

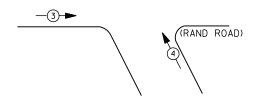
PEDESTRIAN PHASE SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

# PHASE DESIGNATION DIAGRAM





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b></b>	1		

	I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% 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	16	1 35	12	0.10	19					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
					•					

ENERGY COSTS-

FLASHER LED

ENERGY SUPPLY -

BILLED TO: VILLAGE OF DEER PARK

23680 W. CUBA ROAD DEER PARK, IL 60010

TOTAL =

415

CONTACT DAVE SCHACHT

630-437-2129

COMMONWEALTH EDISON

# TRACER CABLE -INTERCONNECT TO DEER PARK BLVD. (RAND ROAD) US RTE. 12 INTERCONNECT TO LAKE COOK ROAD -TRACER CABLE **CABLE PLAN**

# SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u>

EACH

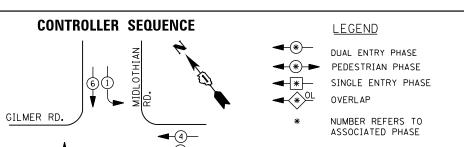
EACH EACH

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

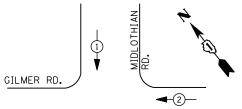
TS# 21785 DEER PARK

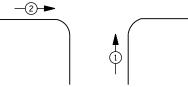
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 12 (RAND ROAD) AT PLUM GROVE ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		F.A.	SECTION		TOTAL SHEETS	HEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\21785_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS				2012-039TS	LAKE	84	22
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	NO. 60	T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT		





<del>-3-</del> _<u>8</u>→





EMERGENCY VE	HICLE PR	EEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2		
MOVEMENT	<b>↓</b> ↑	<b>—</b>		

1. 0. 1.										
	TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND. LED			WATTAGE					
SIGNAL (RED)	13	1 35	17	0.50	111					
(YELLOW)	13	1 35	25	0.25	81					
( GREEN)	13	1 35	15	0.25	49					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	360					

ENERGY COSTS-

BILLED TO: VILLAGE OF HAWTHORN WOODS 2 LAGGON DRIVE

HAWTHORN WOODS, IL 60047

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

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

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

TS# 22205 HAWTHORN WOODS

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet File s 12-003 Sheets SW Lake Co\22205_CAB_LAKE.do DRAWN JDH REVISED **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED SCALE: N.T.S. DATE REVISED PLOT DATE = 8/23/2012

GILMER ROAD AT MIDLOTHIAN ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SHEET NO. OF SHEETS STA.

**CABLE PLAN** 

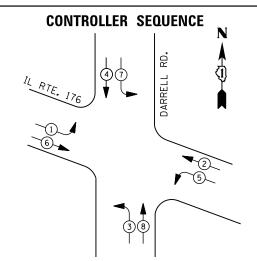
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-039TS	LAKE	84	23
		CONTRACT	NO. 6	OT84
	ILLINOIS FED. AL	D PROJECT		

52 PHASE DESIGNATION DIAGRAM **EMERGENCY VEHICLE PREEMPTION SEQUENCE** 

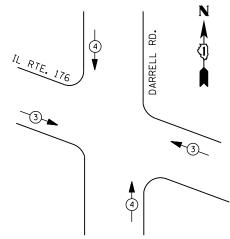
(GREEN) MIDLOTHIAN R Y G + Y + G **↑ ↑** 0 ≺ **₽** G -NO. 6 (GREEN) (GREEN) **↑** ↑ ∩ ≺ ¬ ດ ≺ ⊅ GILMER RD. **9 4 8 5** TRACER CABLE INTERCONNECT TO SCHWERMAN RD.

-NO. 6





# PHASE DESIGNATION DIAGRAM



**EMERGENCY VEHICLE PREEMPTION SEQUENCE** 

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

	I. D. O. T.										
	TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
	INCAND. LED		LED		WATTAGE						
SIGNAL (RED)	13	1 35	17	0.50	111						
(YELLOW)	13	1 35	25	0.25	81						
( GREEN)	13	1 35	15	0.25	49						
ARROW	16	1 35	12	0.10	19						
PED. SIGNAL	0	90	25	1.00	0						
CONTROLLER	1	1 00	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM	ŀ	150	-	1.00	1						
FLASHER LED											

BILLED TO: IDOT DISTRICT 1

CONTACT MIKE LENOX

PHONE

815-490-2869

ENERGY COSTS-

ENERGY SUPPLY -

TOTAL =

201 WEST CENTER COURT

COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

360

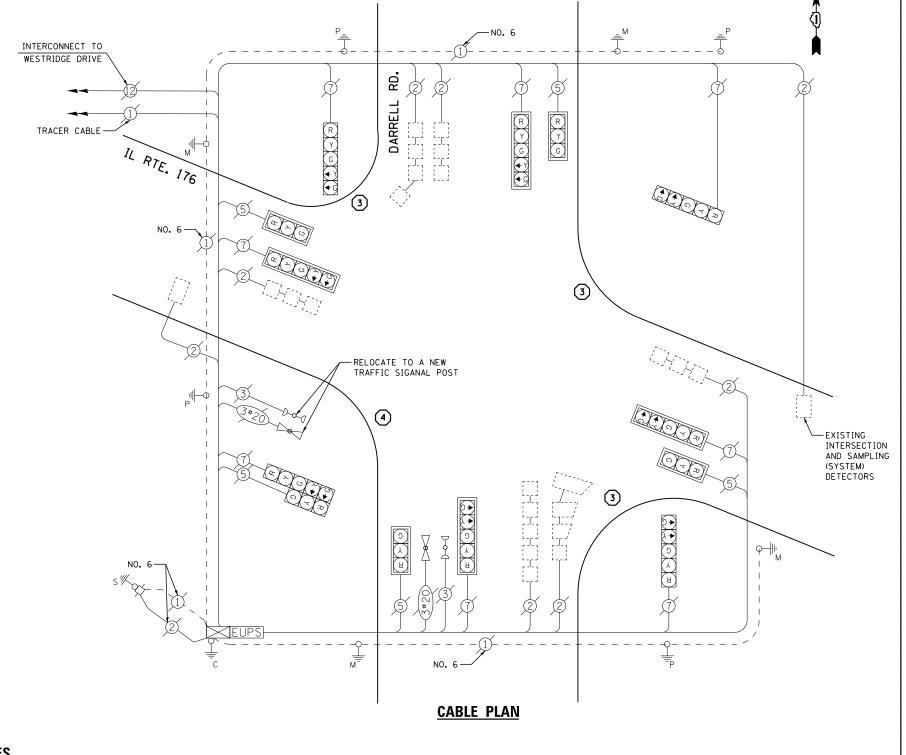
# **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

- 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**

<u>QUANTITY</u> <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
RELOCATE EXISTING SIGNAL HEAD
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH EACH EACH EACH

* 100% COST TO ISLAND LAKE

# 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.

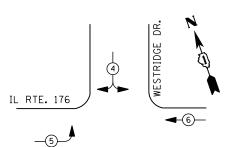
4 EACH SIGNAL POST

TS# 7135 ISLAND LAKE

FIL	E NAME =	USER NAME = \$USER\$	DESIGNEZD-15-10 PE	ER DOMOT REVIEW	REVISED -		IL ROUTE 176 AT DARRELL ROAD		F.A. RTF	SECTION	COUNTY	TOTAL	SHEET				
N:\\	Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\07135_CAB_LAKE.dg	DRAWN 3-30-10 P	ER JODAOT REVIEW		STATE OF ILLINOIS	SCH					ESIGNATION DIAGRAM		2012-039TS	LAKE	84	24
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EWI	ERGENCY	VEHICLE P	KEEMIPIIUN	I SEQUENCE			CONTRAC	T NO. 6	OT84
		PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		







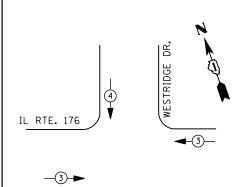
# <u>LEGEND</u>

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

OVERLAP NUMBER REFERS TO ASSOCIATED PHASE

# PHASE DESIGNATION DIAGRAM

**-2-**



# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>↓</b> ↑	

	I. D. O. T.									
	TRAFFIC S	I GNAL I	NSTALLA	TION						
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND. LED			WATTAGE					
SIGNAL (RED)	9	1 35	17	0.50	77					
(YELLOW)	9	1 35	25	0.25	56					
( GREEN)	10	1 35	15	0.25	38					
ARROW	4	1 35	12	0.10	5					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	276					

BILLED TO: VILLAGE OF ISLAND LAKE ENERGY COSTS-3720 GREENLEAF AVENUE

ISLAND LAKE, IL 60042 CONTACT MIKE LENOX ENERGY SUPPLY -PHONE

COMMONWEALTH EDISON

# 815-490-2869

# C→ N **2** ≻ ∪ - EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS GREEN ↑ ↑ O ≺ ₽ IL RTE. 176 א ר ס÷ TRACER CABLE -ଜ ≻ ଓ ଧ INTERCONNECT TO BEECH ST./ EASTWAY DR. NO. 6 GREEN RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D NO. 6 -GREEN

**CABLE PLAN** 

NO. 6 GREEN OR.

WESTRIDGE

↑ ↑ C ≺ R

# SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
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
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT
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, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

# 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 TRAFFIC SIGNAL BACKPLATE

TS# 7137 ISLAND LAKE

-TRACER CABLE

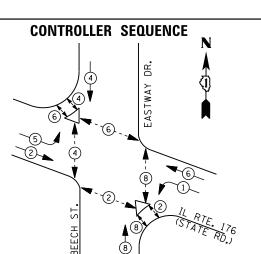
INTERCONNECT TO

DARRELL RD.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL R	ROUTE 17	6 AT WES	TRIDGE DRIV	VE	F.A. RTF	SECTION	COUNTY	TOTAL SHEETS	HEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\07137_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE					IGNATION DIAGRAM		2012-039TS	LAKE	84	25
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMER	GENCY V	EHICLE PF	EEMPTION :	SEQUENCE			CONTRACT	NO. 60	T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

**IUPS** 





# LEGEND

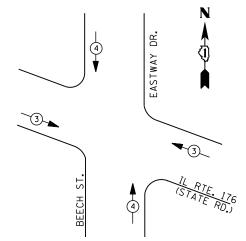
DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

# PHASE DESIGNATION DIAGRAM



# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	<b>†</b>

I. D. O. T.									
	TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL	SERVI CE	REQUIR	EMENTS					
TYPE	PE NO. LAMPS WATTAGE % OPERATIONS TOTAL								
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	20	1 35	1 7	0.50	170				
(YELLOW)	20	1 35	25	0.25	125				
( GREEN)	20	1 35	15	0.25	75				
ARROW	8	1 35	12	0.10	10				
PED. SIGNAL	12	90	25	1.00	300				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	1	150	ı	1.00	1				
FLASHER LED									

ENERGY COSTS-

BILLED TO: VILLAGE OF ISLAND LAKE 3720 GREENLEAF AVENUE

ENERGY SUPPLY -

CONTACT MIKE LENOX PHONE

815-490-2869 COMMONWEALTH EDISON

TOTAL =

780

ISLAND LAKE, IL 60042

# **SCHEDULE OF QUANTITIES**

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

INTERCONNECT TO ROBERTS RD./ MIDWAY DR.

TRACER CABLE

EXISTING INTERSECTION -AND SAMPLING (SYSTEM)

DETECTORS

[UPS]

**CABLE PLAN** 

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NO. 6

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> PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

G

# REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

R

G

INTERCONNECT TO

-TRACER CABLE

WESTRIDGE DR.

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

12 EACH PEDESTRIAN SIGNAL HEAD

ST

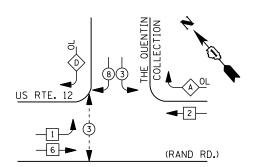
9 EACH PEDESTRIAN PUSH-BUTTON EACH TRAFFIC SIGNAL BACKPLATE

TS# 7139 ISLAND LAKE

									222
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 176 AT BEECH STREET/EASTWAY DRIVE	F.A.	SECTION COUN	NTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-003 Sheets SW Lake Co\07139_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11122	2012-039TS LAP	KE 84 26
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			RACT NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJEC	







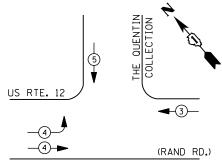
# <u>LEGEND</u>

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

# PHASE DESIGNATION DIAGRAM

OVERLAP PERMISSIVE PROTI	ECTED
LETTER PHASE PHA	<u>ASE</u>
A = 2 +	3
D = 8 +	1



# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5				
MOVEMENT	+		<b>+</b>				

		I. D. O	. т.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	14	1 35	17	0.50	119
(YELLOW)	14	1 35	25	0.25	88
( GREEN)	14	1 35	15	0.25	53
ARROW	8	1 35	12	0.10	10
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 =	419

ENERGY COSTS-

ENERGY SUPPLY -

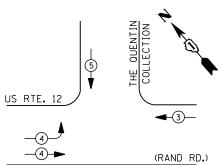
BILLED TO: VILLAGE OF KILDEER

CONTACT DAVE SCHACHT

PHONE

21911 QUENTIN ROAD KILDEER, IL 60047

630-437-2129 COMMONWEALTH EDISON



# NO. 6-THE QUENTIN TRACER CABLE (E) (S) (B) (B) -TRACER CABLE INTERCONNECT TO QUENTIN RD. INTERCONNECT TO LONG GROVE RD. US RTE. 12 (C) < (Z) (RAND RD.)

# **CABLE PLAN**

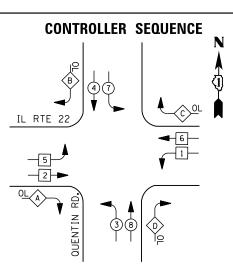
# **SCHEDULE OF QUANTITIES**

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

TS# 957 KILDEER

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 12 AT QUENTIN COLLECTION SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		F.A. RTF	SECTION		TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\00957_CAB_LAKE.dg	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS				2012-039TS	LAKE	84 27
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT	





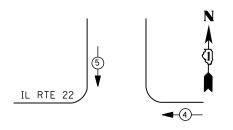
# **LEGEND**

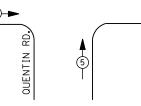
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	1
OVER	_AP	PERMISS	SIVE	PROTECTED	
LETTE	R	PHASE		PHASE	
Α	=	2	+	3	
В	=	4	+	5	
С	=	6	+	7	

# PHASE DESIGNATION DIAGRAM





# EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGEN	CY VEHICLE	E PREEMPTO	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	<b>Å</b>	•	1

		I. D. 0	. T.						
	TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	18	1 35	17	0.50	153				
(YELLOW)	18	1 35	25	0.25	113				
( GREEN)	18	1 35	15	0.25	68				
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	1	150	-	1.00	150				
FLASHER LED									

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

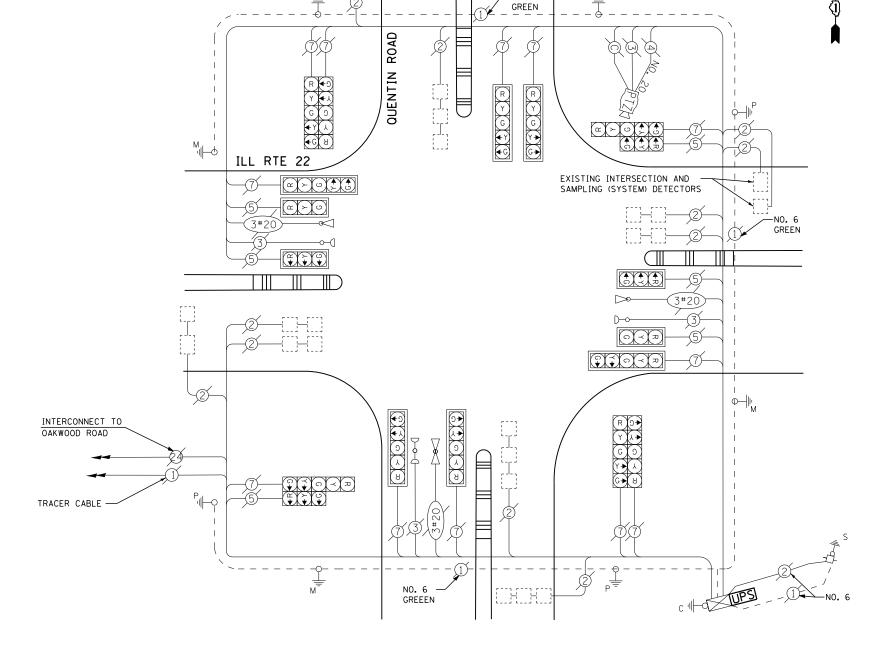
613

ENERGY SUPPLY -

CONTACT DAVE SCHACHT PHONE 630-437-2129

COMMONWEALTH EDISON

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4	5		
MOVEMENT	<b>*</b>	•			



-NO. 6

# **CABLE PLAN**

# **SCHEDULE OF QUANTITIES**

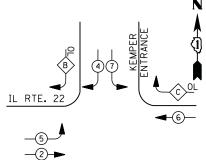
QUANTITY <u>UN I T</u> <u>ITEM</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 6765 KILDEER

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 22 AT QUENTIN ROAD	F.A. RTE.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06765_CAB_LAKE.do		JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-039TS	LAKE 84 28
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT







EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

# LEGEND

DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	
OVERL	_AP	PERMISS	IVE	PROTECTED	
LETTE	R	PHASE		PHASE	
В	=	4	+	5	
С	=	6	+	7	

## I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE % OPERATIONS TOTAL WATTAGE INCAND. LED SIGNAL (RED) 17 102 1 35 0.50 25 0.25 (YELLOW) 1 35 12 75 (GREEN) 1 35 15 0.25 45 12 ARROW 1 35 0.10 10 PED. SIGNAL 1.00 CONTROLLER 100 100 1.00 100 25 ILLUM. SIGN 252 0.05 VIDEO SYSTEM 1.00 ---150

TOTAL =

BILLED TO: VILLAGE OF KILDEER
21911 QUENTIN ROAD

332

KILDEER, IL 60047
ENERGY SUPPLY - CONTACT <u>DAVE SCHACHT</u>
PHONE 630-437-2129

FLASHER LED

ENERGY COSTS-

630-437-2129 COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
5	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
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
1	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED RETROFIT

# SIGNAL HEADS TO L.E.D

RETROFIT ALL EXISTING

# REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

† † C ≺ R

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 TRAFFIC SIGNAL BACKPLATE

EXIT

KEMPER

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NO. 6 -GREEN

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IL RTE. 22

GREEN

KEMPER ENTRANCE

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**CABLE PLAN** 

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1 EACH CONTROLLER AND CABINET (COMPLETE)

TS# 6767 KILDEER

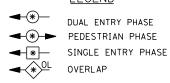
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROL	UTE 22 AT	KEMPE	R INSURANCE		F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06767_CAB_LAKE.d		JDH	REVISED -	STATE OF ILLINOIS					S, CABLE PLAN		1112	2012-039TS	LAKE	84	29
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND	PHASE DE	SIGNATI	ON DIAGRAM				CONTRAC	T NO. (	60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF SI	HEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

**UPS** 

NO. 6 GREEN







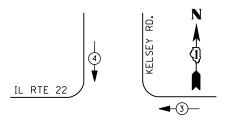
NUMBER REFERS TO ASSOCIATED PHASE

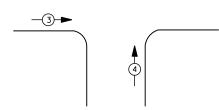
# PHASE DESIGNATION DIAGRAM

38

**CONTROLLER SEQUENCE** 

IL RTE 22





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEH	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

		1. D. O	. !.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUI R	EMENTS	
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	16	1 35	12	0.10	19
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY -

CONTACT DAVE SCHACHT PHONE 630-437-2129

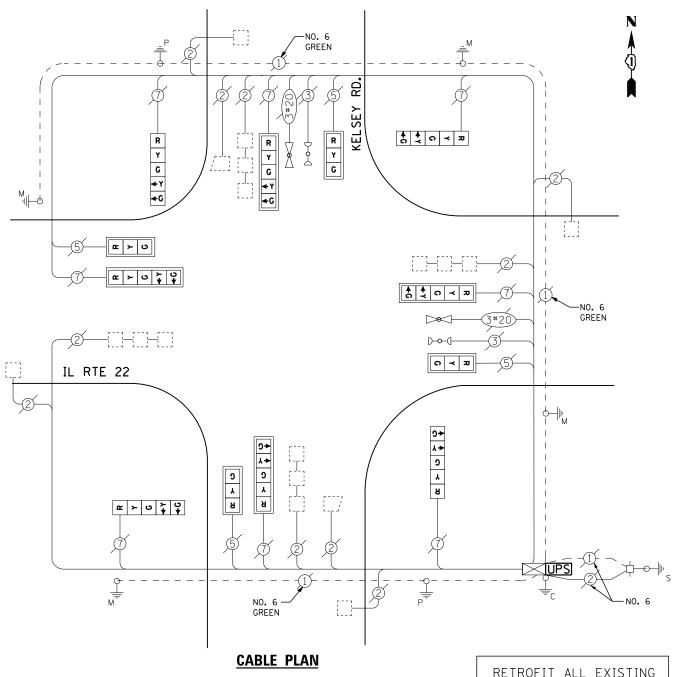
COMMONWEALTH EDISON

# SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</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
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

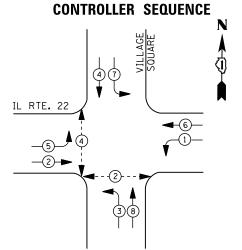
TS# 6531 LAKE BARRINGTON



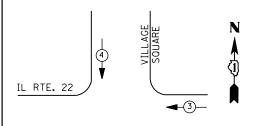


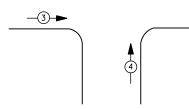
RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.





# PHASE DESIGNATION DIAGRAM





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRI	EEMPTOR
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	

I. D. O. T.								
TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL	SERVI CE	REQUIR	EMENTS				
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	16	1 35	12	0.10	19			
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 =	441			

ENERGY COSTS-

BILLED TO: VILLAGE OF LAKE ZURICH 70 EAST MAIN STREET

LAKE ZURICH, IL 60047 CONTACT DAVE SCHACHT

ENERGY SUPPLY -PHONE

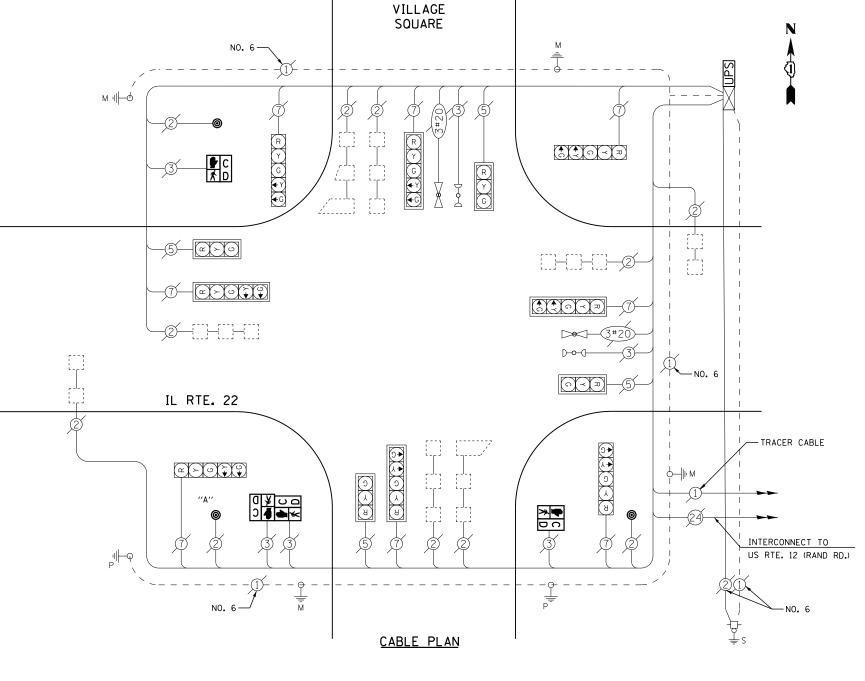
630-437-2129 COMMONWEALTH EDISON

# LEGEND

DUAL ENTRY PHASE

PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



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

# 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 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

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

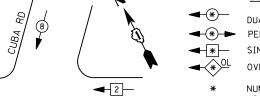
TS# 941 LAKE ZURICH

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 22 /	AT VILLAGE	SQUARE		F.A.	SECTION	COUNTY	TOTAL S	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-003 Sheets SW Lake Co\00941_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS		OF QUANTITIES, CABLE				1,,,,,,	2012-039TS	LAKE	84	31
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	A	AND EMERGENCY VEHI	ICLE PREEM	PTION SEQUE	NCE			CONTRACT	T NO. 60	T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. S	SHEET NO. 7 OF 9	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



# CONTROLLER SEQUENCE

US 12 (RAND RD)



PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

# LEGEND 1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

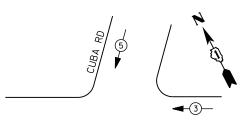
2) REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

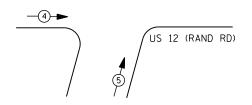
REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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

US RTE. 12







# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

	EMERGENO	CY VEHICLI	E PREEMPTOR	₹\$
	NCY VEHICLE	3	4	5
мо	VEMENT	-	-	<b>↓</b> ↑

I. D. O. T.							
	TRAFFIC SIGNAL INSTALLATION						
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS			
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	4	1 35	12	0.10	5		
PED. SIGNAL		90	25	1.00			
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM	1	150	ı	1.00	150		
FLASHER LED							

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

TOTAL =

589

ENERGY SUPPLY - CONTACT DAVE SCHACHT

CONTACT <u>DAVE SCHACHT</u>
PHONE 630-437-2129

COMMONWEALTH EDISON

# SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT.
9	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD. LED. 1-FACE. 5-SECTION. MAST-ARM MOUNTED
3	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
10	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

TRACER CABLE

INTERCONNECT TO

OLD RAND ROAD

# 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.

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

4 EACH SIGNAL POST

-NO. 6

GREEN

RYG

1

(RAND RD)

**>**∞<1-

ດ ≺ ສ

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(3)

NO. 6-GREEN

**CABLE PLAN** 

**2** ≻ ∪

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TS# 975 LAKE ZURICH

-TRACER CABLE

INTERCONNECT TO

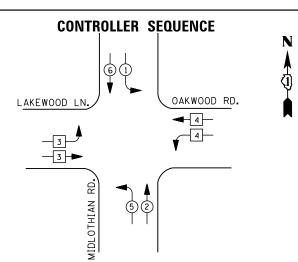
-EXISTING INTERSECTION AND SAMPLING (SYSTEM)

DETECTORS

-NO.6 GREEN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 12 (RAND ROAD) AT CUBA ROAD	F.A.	SECTION	COUNTY	TOTAL SHEE
N:\Projects3\12004\DesignCAD\Sheet Files	.12-003 Sheets SW Lake Co\00975_CAB_LAKE.dg	∩DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-039TS	LAKE	84 32
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 60T8
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	





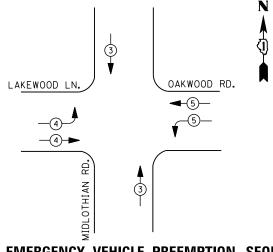
# <u>LEGEND</u>

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

# PHASE DESIGNATION DIAGRAM



# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4	5		
MOVEMENT	<b>↓</b> ↑		1		

	Ι.	D.	0.	T.	
TRAFFIC	SIG	NAL	I١	NSTALL	ATION
ELECTRICAL	. SE	RVI	CE	REQUI	REMENTS

	ELECTRICAL SERVICE REQUIREMENTS							
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	18	1 35	17	0.50	153			
(YELLOW)	18	1 35	25	0.25	113			
( GREEN)	22	1 35	15	0.25	83			
ARROW	8	1 35	12	0.10	10			
PED. SIGNAL		90	25	1.00				
CONTROLLER	1	100	1 00	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								

N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\06573_CAB_LAKE.do

PLOT DATE = 8/23/2012

ENERGY COSTS-

ENERGY SUPPLY -

FILE NAME =

BILLED TO: VILLAGE OF LAKE ZURICH 70 EAST MAIN STREET

LAKE ZURICH, IL 60047

TOTAL =

DESIGNED

CHECKED

JDH

DRAWN

DATE

CONTACT DAVE SCHACHT PHONE 630-437-2129 COMMONWEALTH EDISON

# **SCHEDULE OF QUANTITIES**

EACH

REVISED

REVISED

REVISED REVISED

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

EACH

MIDLOTHIAN RD.

**CABLE PLAN** 

R > G + > G + > G

TS# 6573 LAKE ZURICH

OAKWOOD RD.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

						LANE	ZUNI	СП
MIDLOTHIAN ROAD AT OAKWOOD ROAD/LAKEWOOD LANE					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDU	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM					LAKE	84	33
	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE					CONTRACT	NO. 6	OT84
SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



MAIN ST.

# CONTROLLER SEQUENCE

DUAL ENTR

DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OVERLAP

LEGEND

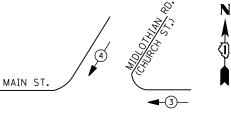
NUMBER REFERS TO ASSOCIATED PHASE

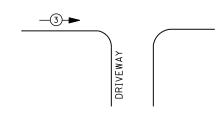
- 1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- 2 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

# PHASE DESIGNATION DIAGRAM

8

**-**6−





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEH	ICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	/

TRAFFIC SIGNAL INSTALLATION							
ELECTRICAL SERVICE REQUIREMENTS							
NO. LAMPS	MPS WATTAGE %		% OPERATIONS	TOTAL			
	INCAND.	LED		WATTAGE			
14	1 35	1 7	0.50	119			
14	1 35	25	0.25	88			
18	1 35	15	0.25	68			
4	1 35	12	0.10	5			
4	90	25	1.00	100			
1	100	1 00	1.00	100			
	252	25	0.05				
	150	-	1.00	-			
	NO. LAMPS  14 14 18 4	Columbia	Columbia	RECTRICAL SERVICE REQUIREMENTS   NO. LAMPS   WATTAGE   % OPERATIONS   INCAND.   LED			

I. D. O. T.

ENERGY COSTS-

FLASHER LED

BILLED TO: VILLAGE OF LAKE ZURICH
70 EAST MAIN STREET

LAKE ZURICH, IL 60047

TOTAL =

ENERGY SUPPLY - CONTACT DAVE SCHACHT

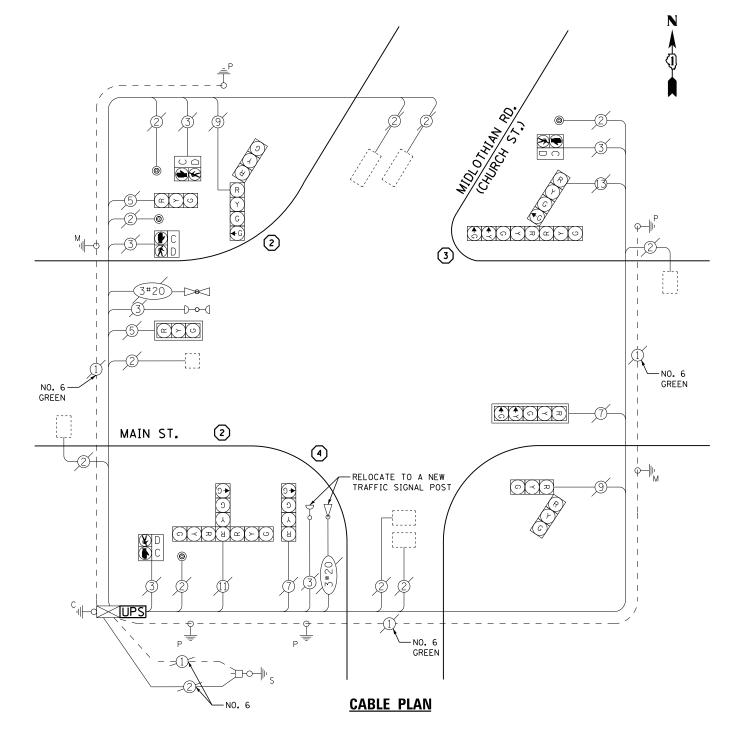
CONTACT DAVE SCHACHT
PHONE 630-437-2129

COMMONWEALTH EDISON

# SCHEDULE OF QUANTITIES

		<del></del>
<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
9	EACH	RELOCATE EXISTING SIGNAL HEAD
3	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
3	EACH	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

* 100% COST TO LAKE ZURICH



# 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.

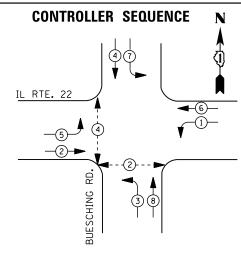
4 EACH SIGNAL POST

TS# 6750 LAKE ZURICH

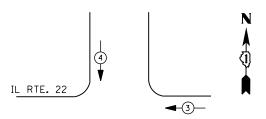
COUNTY TOTAL SHEET NO.

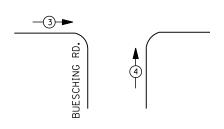
LAKE 84 34 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW MAIN STREET AT MIDLOTHIAN ROAD (CHURCH STREET)
SCHEDULE OF QUANTITIES. CABLE PLAN, PHASE DESIGNATION DIAGRAM COUNTY SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\06750_CAB_LAKE.do DRAWN JDH REVISED 2012-039TS AND EMERGENCY VEHICLE PREEMPTION SEQUENCE **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T84 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 8/23/2012 REVISED DATE





# PHASE DESIGNATION DIAGRAM





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>—</b>	<b> </b>		

	Ι. [	D. 0.	T.	
TRAFFIC	SIGN	AL I	NSTALL	ATION
<b>ELECTRI CAL</b>	SER	VICE	REQUI	REMENTS

	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	19
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					

ENERGY COSTS-

BILLED TO: VILLAGE OF LAKE ZURICH
70 EAST MAIN STREET

LAKE ZURICH, IL 60047

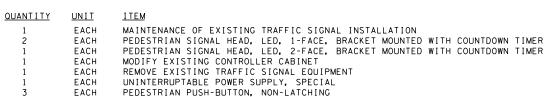
ENERGY SUPPLY - C

CONTACT DAVE SCHACHT
PHONE 630-437-2129

630-437-2129 COMMONWEALTH EDISON

TOTAL =

SCHEDULE OF QUANTITIES



INTERCONNECT TO MAIN STREET EAST

EXISTING INTERSECTION -AND SAMPLING (SYSTEM)

DETECTORS

TRACER CABLE

IL RTE. 22

# -EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS **CABLE PLAN** PUSH BUTTON "A" SHALL PLACE A CALL IN PHASED 2 AND 4 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 3 EACH PEDESTRIAN PUSH-BUTTON

8

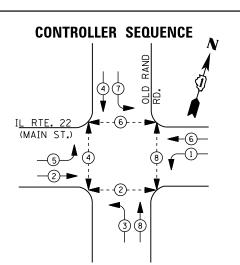
BUESCHING

**₽** C

TS# 6751 LAKE ZURICH

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			II	L ROUTE 2	2 AT BUE	SCHING ROA	.D	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	\12-003 Sheets SW Lake Co\06751_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE					IGNATION DIAGRAM		2012-039TS	LAKE	84	35
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EME	RGENCY V	EHICLE PE	REEMPTION S	SEQUENCE			CONTRAC	T NO. 6	OT84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





# **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

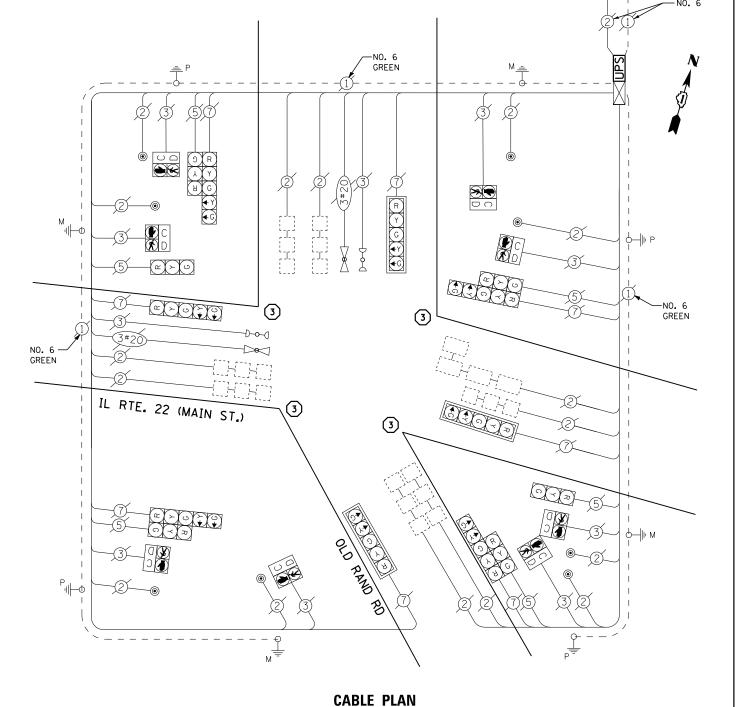
> NUMBER REFERS TO ASSOCIATED PHASE

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

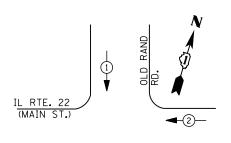
2 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

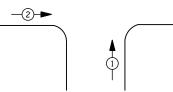
REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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



# PHASE DESIGNATION DIAGRAM





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	<b>↓</b> ↑	<b></b>

		I. D. O	. T.							
TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS  TYPE NO. LAMPS WATTAGE % OPERATIONS TOTAL INCAND. LED % WATTAGE  SIGNAL (RED) 14 135 17 0.50 119  (YELLOW) 14 135 25 0.25 88  (GREEN) 14 135 15 0.25 53  ARROW 16 135 12 0.10 19  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										
TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS  TYPE  NO. LAMPS  WATTAGE INCAND. LED  SIGNAL (RED)  14  135  17  0.50  119  (YELLOW)  14  135  25  0.25  88  (GREEN)  14  135  15  0.25  53  ARROW  16  135  12  0.10  19  PED. SIGNAL  8  90  25  1.00  200  CONTROLLER  1  100  1100  1100  1100  11LUM. SIGN										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS						
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	14	1 35	17	0.50	119					
(YELLOW)	14	1 35	25	0.25	88					
( GREEN)	14	1 35	15	0.25	53					
ARROW	16	1 35	12	0.10	19					
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 =	579					

ENERGY COSTS-

BILLED TO: VILLAGE OF LAKE ZURICH 70 EAST MAIN STREET

LAKE ZURICH, IL 60047

ENERGY SUPPLY -

CONTACT DAVE SCHACHT PHONE 630-437-2129 COMMONWEALTH EDISON

# SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
8	EACH	RELOCATE EXISTING SIGNAL HEAD
4	EACH	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD
3	EACH	RELOCATE EXISTING 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

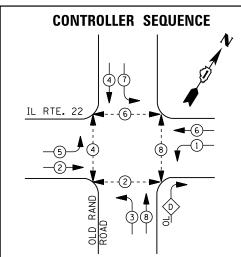
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH SIGNAL POST

TS# 6755 LAKE ZURICH

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			MAIN STREET AT OLD RAND ROAD	F.A. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files		nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-039TS	LAKE	84 36
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	_		CONTRACT	NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT	





DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

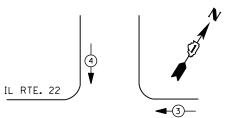
RIGHT TURN OVERLAP PHASE DESIGNATION PERMISSIVE PROTECTED

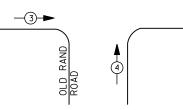
TRACER CABLE

INTERCONNECT TO MAIN STREET WEST

LETTER PHASE PHASE

#### PHASE DESIGNATION DIAGRAM





#### EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b> </b>

		I. D. O	. T.			
TRAFFIC SIGNAL INSTALLATION						
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS		
TYPE	NO. LAMPS	WAT	TAGE	% 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	20	1 35	12	0.10	24	
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	1.00		

ENERGY COSTS-

FLASHER LED

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY -

CONTACT DAVE SCHACHT 630-437-2129 PHONE

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

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

ROAD

RAND

OLD

© C

ILL ROUTE 22

NO. 6-GREEN

**CABLE PLAN** 

NO. 6

GREEN

 $\bigcirc$ 

(R) > (O) (\$) (\$)

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 2 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

8 EACH PEDESTRIAN SIGNAL HEAD 5 EACH PEDESTRIAN PUSH-BUTTON

TS# 6757 LAKE ZURICH

INTERCONNECT TO MAIN STREET EAST

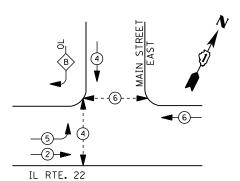
TRACER CABLE

-NO. 6 GREEN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 22 AT OLD RAND RD.	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06757_CAB_LAKE.do	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-039TS	LAKE	84	37
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRAC	T NO.	50T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		





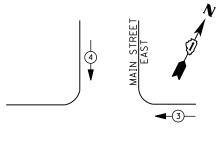


DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATIO	<u>N</u>
OVERL	AΡ	PERMISSI	[VE	PROTECTED	
LETTER	7	PHASE		PHASE	
_		_		_	

#### PHASE DESIGNATION DIAGRAM



**-**3**→** IL RTE. 22

#### EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	<b>\</b>

		I. D. 0	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	10	1 35	17	0.50	85
( YELLOW)	10	1 35	25	0.25	63
( GREEN)	10	1 35	15	0.25	38
ARROW	8	1 35	12	0.10	10
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 =	396

ENERGY COSTS-

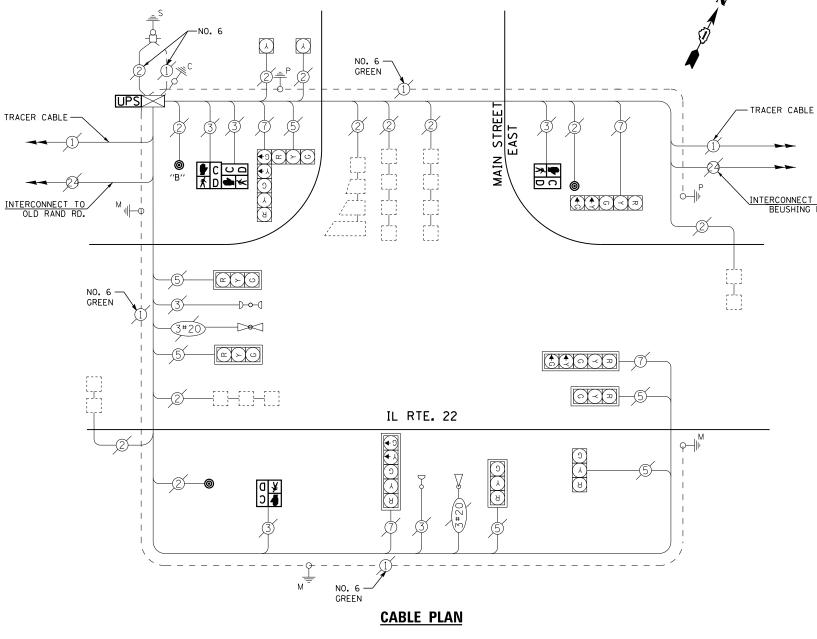
ENERGY SUPPLY -

BILLED TO: VILLAGE OF LAKE ZURICH 70 EAST MAIN STREET

LAKE ZURICH, IL 60047 CONTACT DAVE SCHACHT

PHONE 630-437-2129

## COMMONWEALTH EDISON



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

#### **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 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

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.

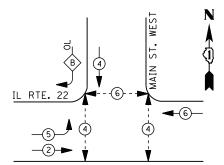
- 4 EACH PEDESTRIAN SIGNAL HEAD
- 3 EACH PEDESTRIAN PUSH-BUTTON

TS# 6758 LAKE ZURICH

Ī	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL R	OUTE 22	AT MAIN	STREET EA	AST	F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
	N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06758_CAB_LAKE.de		JDH	REVISED -	STATE OF ILLINOIS	SCHEI					IGNATION DIAGRAM		2012-039TS	LAKE	84	38
- 1		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMER	GENCY V	EHILLE PK	EEMPTION	SEGUENCE			CONTRAC	T NO. 6	OT84
		PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

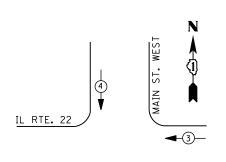






#### PHASE DESIGNATION DIAGRAM

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	<u> </u>
OVERI	_AP	PERMISS	IVE	PROTECTED	
LETTE	R	PHASE		PHASE	
В	=	4	+	5	





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEH	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<del></del>	<b>\</b>

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	10	1 35	1 7	0.50	85
(YELLOW)	10	1 35	25	0.25	63
( GREEN)	10	1 35	15	0.25	38
ARROW	8	1 35	12	0.10	10
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	1
FLASHER LED					

ENERGY COSTS-

BILLED TO: VILLAGE OF LAKE ZURICH 70 EAST MAIN STREET

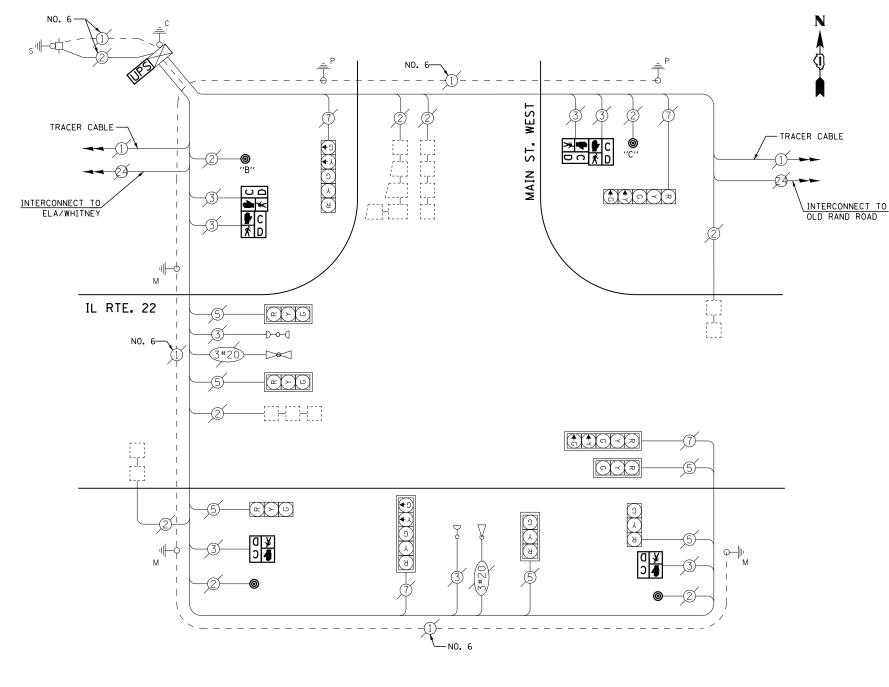
LAKE ZURICH, IL 60047

TOTAL =

ENERGY SUPPLY -

CONTACT DAVE SCHACHT PHONE 630-437-2129 COMMONWEALTH EDISON

### DUAL ENTRY PHASE * PEDESTRIAN PHASE SINGLE ENTRY PHASE NUMBER REFERS TO ASSOCIATED PHASE



#### **CABLE PLAN**

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

#### **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 WITH COUNTDOWN TIMER
2	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	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.

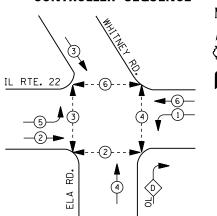
6 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

> TS# 6759 LAKE ZURICH

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 22 AT MAIN STREET WEST	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06759_CAB_LAKE.d	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-039TS	LAKE	84	39
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRAC	T NO. 6	T84ر
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



#### **CONTROLLER SEQUENCE**



#### LEGEND

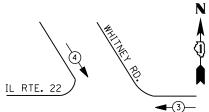
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

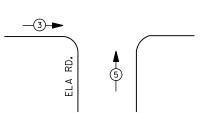
> NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP	PERMISSIVE	PROTECTED
LETTER	PHASE	PHASE
D =	4	+ 1

### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	Y VEHICLI	E PREEMPTOR	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	<b>—</b>	\	<b>†</b>

I. D. O. T.							
TRAFFIC SIGNAL INSTALLATION							
	ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	14	1 35	17	0.50	119		
( YELLOW)	14	1 35	25	0.25	88		
( GREEN)	18	1 35	15	0.25	68		
ARROW	12	1 35	12	0.10	14		
PED. SIGNAL	8	90	25	1.00	200		
CONTROLLER	1	100	1 00	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00	1		
FLASHER LED							
				TOTAL =	589		

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF LAKE ZURICH 70 EAST MAIN STREET

LAKE ZURICH, IL 60047

CONTACT DAVE SCHACHT PHONE 630-437-2129 COMMONWEALTH EDISON

589

PEDESTRIAN PUSH-BUTTON, NON-LATCHING

## TRACER CABLE INTERCONNECT TO MAIN ST. (WEST) IL RTE. 22 GREEN TRACER CABLE 윤. INTERCONNECT TO US RTE. 12 ELA **CABLE PLAN** NOTES: PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 6 AND 3 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 2 AND 3

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

#### **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 WITH COUNTDOWN TIMER
3	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	FACH	PEDESTRIAN PUSH-RUTTON 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.

EACH PEDESTRAIN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH

TS# 6775 LAKE ZURICH

COUNTY TOTAL SHEET NO.

LAKE 84 40 FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW IL ROUTE 22 AT ELA ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION COUNTY STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet File s 12-003 Sheets SW Lake Co\06775_CAB_LAKE.do DRAWN JDH REVISED 2012-039TS **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T84 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 8/23/2012 DATE REVISED



IL RTE. 22

_5-

**-2**-



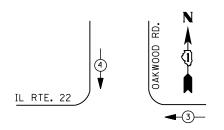
DUAL ENTRY PHASE

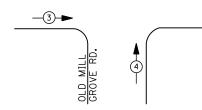
PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	†	<b> </b>

	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	16	1 35	12	0.10	19			
PED. SIGNAL	4	90	25	1.00	100			
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM	1	150	-	1.00				

I. D. O. T.

ENERGY COSTS-

FLASHER LED

BILLED TO: VILLAGE OF LAKE ZURICH 70 EAST MAIN STREET

LAKE ZURICH, IL 60047

CONTACT DAVE SCHACHT ENERGY SUPPLY -

PHONE 630-437-2129

#### COMMONWEALTH EDISON

TOTAL =

## NO. 6-8 OAKWOOD INTERCONNECT TO OUENTIN RD. IL RTE. 22 D C TRACER CABLE -© C OLD MILL GROVE RD. INTERCONNECT TO BUESCHING RD. NO. 6 CABLE PLAN

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

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

#### **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 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

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.

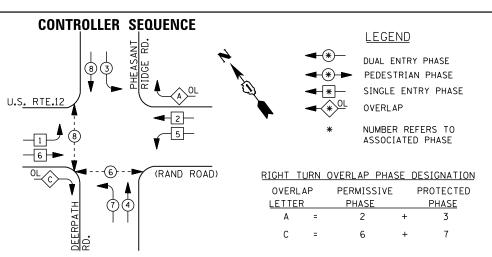
4 EACH PEDESTRIAN SIGNAL HEAD 3 EACH PEDESTRIAN PUSH-BUTTON

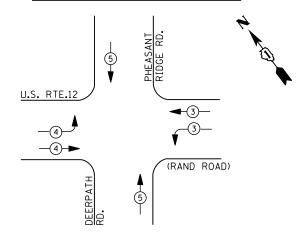
TS# 6785 LAKE ZURICH

-TRACER CABLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 22	AT OLD	MILL GR	ROVE RO	AD/OAKWOOD	ROAD	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06785_CAB_LAKE.do		JDH	REVISED -	STATE OF ILLINOIS	SCH	HEDULE OF QUAN							2012-039TS	LAKE	84	41
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EME	RGENCY	VEHICLE	PREEM	PTION SEQUE	NCE			CONTRAC	T NO. F	0T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	S STA		TO STA.		ILLINOIS FED. AI	D PROJECT		







#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	CY VEHICLI	E PREEMPTO	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	<b>—</b>		<b>↓</b> †

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	18	1 35	17	0.50	153				
(YELLOW)	18	1 35	25	0.25	113				
( GREEN)	18	1 35	15	0.25	68				
ARROW	16	1 35	12	0.10	19				
PED. SIGNAL	4	90	25	1.00	100				
CONTROLLER	1	1 00	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	0	150	-	1.00	-				
FLASHER LED									
				TOTAL =	553				

ENERGY COSTS-

BILLED TO: VILLAGE OF LAKE ZURICH 70 EAST MAIN STREET

LAKE ZURICH, IL 60047

ENERGY SUPPLY - CONTACT <u>DAVE SCHACHT</u>

PHONE <u>630-437-2129</u>

<u>COMMONWEALTH EDISON</u>

#### SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

TRACER CABLE

INTERCONNECT TO

JUNE TERRACE/
HOME DEPOT DRIVE

#### 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.

U.S. RTE. 12 (RAND ROAD)

**S** 

4 EACH PEDESTRIAN PUSH-BUTTON

**CABLE PLAN** 

TS# 20535 LAKE ZURICH

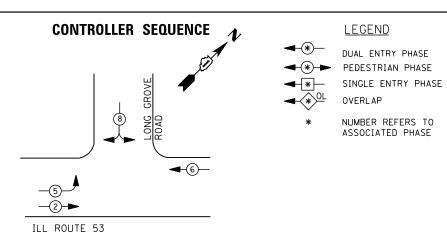
TRACER CABLE

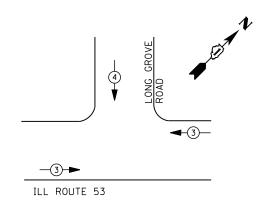
INTERCONNECT TO

OLD RAND ROAD

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		U.S. ROUTE 12 (RAND ROAD) AT		F.A. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\20535_CAB_LAKE.d	1	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN			2012-039TS	LAKE	84 42
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PR	REEMPTION SEQUENCE			CONTRAC	T NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS	STA. TO STA.		ILLINOIS FED. AI	PROJECT	







#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEH	ICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>→</b>

ENERGY SUPPLY -

	I. D. O. T.									
	TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	14	1 35	17	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		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 =	365					
ENERGY COSTS	ENERGY COSTS- BILLED TO: VILLAGE OF LONG GROVE									
1	ENERGY COSTS BIELED TO: VILLENCE OF EGNO GROVE									

3110 RFD

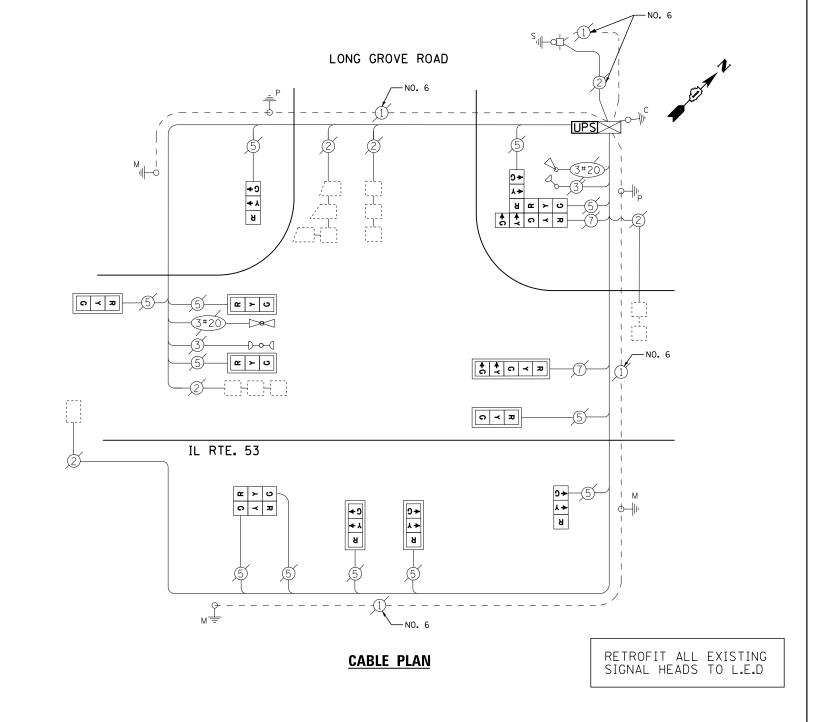
847-816-5239

CONTACT <u>TERRI BLECK</u>

PHONE

LONG GROVE, IL 60047

COMMONWEALTH EDISON



#### **SCHEDULE OF QUANTITIES**

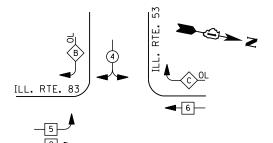
<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
6	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

TS# 966 LONG GROVE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	27.77 25 11.111212	ILLINOIS ROUTE 53 AT LONG GROVE ROAD	F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\00966_CAB_LAKE.d		JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-039TS	LAKE 84 43
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT

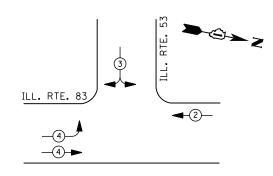






#### **EXISTING AND PROPOSED** PHASE DESIGNATION DIAGRAM

RIGHT	TURN	OVERLAP	PHASE	DESIGNATI	10
OVEF	RLAP	PERMIS	SIVE	PROTECTE	D
LETT	ER	PHASE		PHASE	
В	=	4	+	5	
C	_	6		1	



#### EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENO	CY VEHICLE	PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	2	3	4
MOVEMENT	+	<b>★</b>	<u></u>

	1. D. O. I.									
	TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE										
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	14	1 35	17	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		90	25	1.00						
CONTROLLER	1	100	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 TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

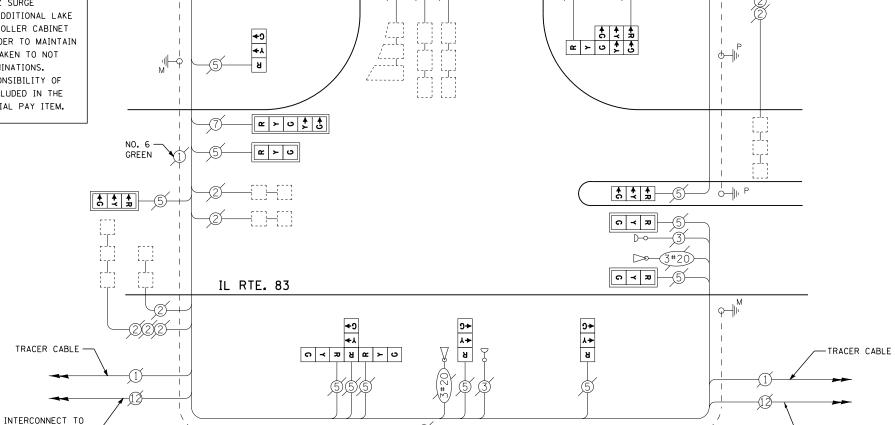
NUMBER REFERS TO ASSOCIATED PHASE

LEGEND

DUAL ENTRY PHASE

PEDESTRIAN PHASE SINGLE ENTRY PHASE

EXISTING FIBER OPTIC SPLICE BOX, POWER SUPPLIES, PTZ SURGE PROTECTORS, ALL NECESSARY WIRING/CABLES AND ANY ADDITIONAL LAKE COUNTY EQUIPMENT SHALL BE RELOCATED TO NEW CONTROLLER CABINET AS NECESSARY, OR AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN THE EXISTING INTERCONNECT SYSTEM. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.



GREEN

INTERCONNECT TO OLD McHENRY RD.

TRACER CABLE

#### **CABLE PLAN**

#### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
5	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
12	EACH	INDUCTIVE LOOP DETECTOR
<b>*</b> 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
4	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, 3-FACE, 3-SECTION, BRACKET MOUNTED RETROFIT

ARLINGTON HEIGHTS RD.

* 100% COST TO LONG GROVE

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

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

INTERCONNECT TO COFFIN ROAD

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

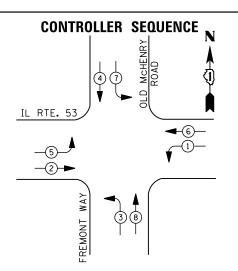
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

5 EACH TRAFFIC SIGNAL BACKPLATE 1 EACH CONTROLLER AND CABINET (COMPLETE)

TS# 6835 LONG GROVE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 53 AT IL ROUTE 83	F.	A. SECTION	COUNTY	TOTAL	L SHEE
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06835_CAB_LAKE.do	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRA	M	2012-039TS	LAKE	84	44
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		<u>'</u>	CONTRAC	CT NO.	60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS F	ED. AID PROJECT		

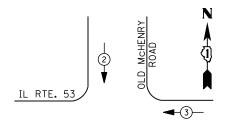


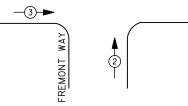


DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEI	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	2	3
MOVEMENT		<b>—</b>

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	13	1 35	17	0.50	111				
( YELLOW)	13	1 35	25	0.25	81				
( GREEN)	13	1 35	15	0.25	49				
ARROW	16	1 35	12	0.10	19				
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 = 360								

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF LONG GROVE

3110 RFD

LONG GROVE, IL 60047

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

## **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
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, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
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
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

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

TS# 6839 LONG GROVE

FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\06839_CAB_LAKE.dqnDRAWN JDH REVISED CHECKED REVISED PLOT DATE = 8/23/2012 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

COUNTY TOTAL SHEET NO.

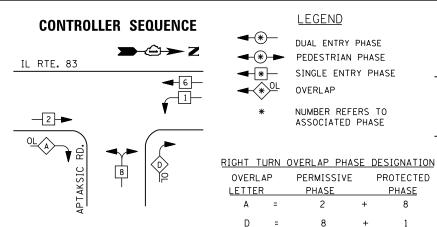
LAKE 84 45

CONTRACT NO. 60184 IL ROUTE 53 AT OLD MCHENRY ROAD
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION 2012-039TS SHEET NO. OF SHEETS STA.

, 0		<u>=</u> M	(1) ■
M COLO MOHENRY	QAOA	\$\frac{1}{2} \cdot \frac{1}{2}	
IL RTE. 53 MARCH CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTR			No. 6
NO. 6  EXISTING PHASE AND SYSTEM DETECTORS		0+ 0+	
No. 6	3 0 7 7 2 2 3 3 0 7 7 7 2 2 3 3 0 7 7 7 7 2 2 3 3 0 7 7 7 7 7 2 2 3 3 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	FREMONT WAY	INTERCONNECT TO IL RTE. 83  TRACER CABLE
s Mod	No. 6		

**CABLE PLAN** 





OVERLAP

*-

OVERLAP

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PROTECTED

**PHASE** 8

PERMISSIVE

### DUAL ENTRY PHASE

**-2**→







**→ ② → Z** 

INTERCONNECT TO/ COFFIN RD.

Y **→** G **→** 

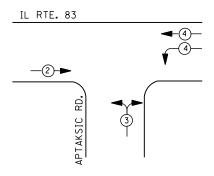
ດ ≺ ਸ਼ R ແ ≻ ບ G→

IL RTE. 83

#### **EXISTING** PHASE DESIGNATION DIAGRAM

#### **PROPOSED** PHASE DESIGNATION DIAGRAM





#### **EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	2	3	4	
MOVEMENT	-	<b>*</b>		

	I.	D.	0.	т.		
TRAFFIC	SIG	NAL	١١	NSTAL	LATION	
ELECTRICAL	. SE	RVI	CE	REQU	I REMEN	TS

TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	14	1 35	17	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		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	1	150	-	1.00	150
FLASHER LED					
				TOTAL =	515

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: IDOT DISTRICT 1

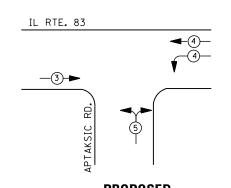
201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK

847-816-5239 PHONE

COMMONWEALTH EDISON



#### **PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	
MOVEMENT	<b>†</b>	-		

#### 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)

#### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
8	EACH	INDUCTIVE LOOP DETECTOR
<b>*</b> 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
5	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, 3-FACE, 3-SECTION, BRACKET MOUNTED RETROFIT
1	EACH	RELOCATE EXISTING SWITCH (SPECIAL)
1	EACH	RELOCATE EXISTING VIDEO ENCODER, SPECIAL

* 100% COST TO LONG GROVE

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

APTAKSIC ROAD

**CABLE PLAN** 

SCH

SCALE: N.T.S.

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

EXISTING FIBER OPTIC SPLICE BOX, POWER SUPPLIES, PTZ SURGE PROTECTORS, ALL NECESSARY WIRING/CABLES AND ANY ADDITIONAL LAKE COUNTY EQUIPMENT SHALL BE RELOCATED TO NEW CONTROLLER CABINET AS NECESSARY, OR AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN THE EXISTING INTERCONNECT SYSTEM. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

> TS# 6955 LONG GROVE

**→**�→ Z

TRACER CABLE

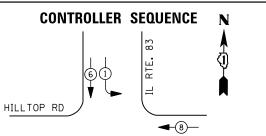
INTERCONNECT TO BRIAR CREST DR.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -		DW	REVISED -
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	PLOT SCALE = \$SCALE\$	CHECKED -	-	кмм	REVISED -
	PLOT DATE = 8/23/2012	DATE -			REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

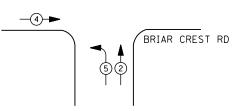
								20110	, 0	O , L
			83 AT AP			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	
HED	HEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE					2012-039TS	LAKE	84	46	
	AND EIVIE	RGENCY	VERILLE P	KEEWIPTIU	N SEQUENCE			CONTRACT	NO. 6	50T84
	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. 4	ID PROJECT		



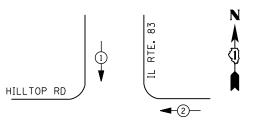


DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

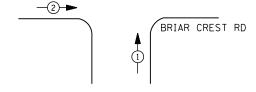
NUMBER REFERS TO ASSOCIATED PHASE



#### **EXISTING AND PROPOSED** PHASE DESIGNATION DIAGRAM



EXISTING FIBER OPTIC SPLICE BOX, POWER SUPPLIES, PTZ SURGE PROTECTORS, ALL NECESSARY WIRING/CABLES AND ANY ADDITIONAL LAKE COUNTY EQUIPMENT SHALL BE RELOCATED TO NEW CONTROLLER CABINET AS NECESSARY, OR AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN THE EXISTING INTERCONNECT SYSTEM. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	<b>1</b>	<del></del>

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

	LLLCTRICAL	JLIN VI CL	INE GOT IN	LIVILIVIO	
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	8	1 35	12	0.10	10
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

USER NAME = \$USER\$

PLOT DATE = 8/23/2012

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ENERGY COSTS-

FILE NAME =

BILLED TO: VILLAGE OF LONG GROVE 3110 RFD

LONG GROVE, IL 60047

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

847-<u>816-5239</u> COMMONWEALTH EDISON

TOTAL =

332

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

КММ

#### 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)

## INTERCONNECT TO TRACER CABLE -83 R Y G ←Y RTE. **←** Y Y $\exists$ ດ **≺** ສ HILLTOP RD. −NO. 6 GREEN NO. 6-GREEN BRIAR CREST DR γ γ γ γ A Y γ γ γ GREEN TRACER CABLE INTERCONNECT TO **CABLE PLAN** APTIKISIC RD THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
7	EACH	INDUCTIVE LOOP DETECTOR
<b>*</b> 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
4	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
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

REVISED

REVISED

REVISED

REVISED

LONG GROVE COUNTY TOTAL SHEET NO. LAKE 84 47 IL ROUTE 83 AT HILLTOP RD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION 2012-039TS CONTRACT NO. 60T84

RETROFIT ALL EXISTING

TS# 6957

SIGNAL HEADS TO L.E.D

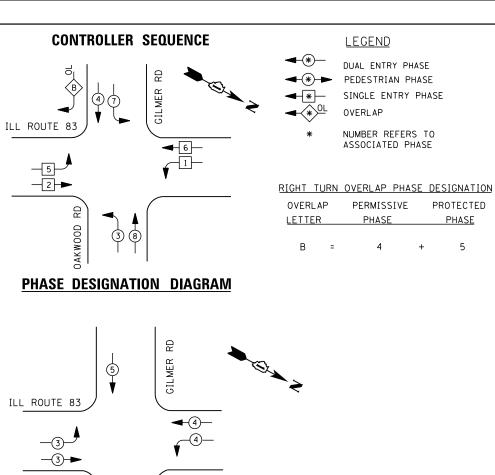
2		EAC	н	210	н	
*	100%	COST	ТО	LONG	GROV	Έ

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE: N.T.S.

SHEET NO. OF SHEETS STA.





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	3 4				
MOVEMENT	<b>_</b>	<b>—</b>	<b> </b>			

5

I. D. O. T.									
	TRAFFIC SIGNAL INSTALLATION								
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	18	1 35	17	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	14				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	1	150	-	1.00	150				
FLASHER LED									
I				TOTAL =	E00				

ENERGY COSTS-

BILLED TO: VILLAGE OF LONG GROVE
3110 RFD

LONG GROVE, IL 60047

ENERGY SUPPLY -

CONTACT TERRI BLECK
PHONE 847-816-5239
COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

<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
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
7	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

ILL ROUTE 83

GREEN

INTERCONNECT TO

TRACER CABLE -

EXISTING INTERSECTION— SAMPLING (SYSTEM)

DETECTORS

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

O-I'M INTERCONNECT TO

-TRACER CABLE

WESTMORELAND DRIVE

TS# 6990 LONG GROVE

-EXISTING INTERSECTION SAMPLING (SYSTEM) DETECTORS

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-
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	PLOT SCALE = \$SCALE\$	CHECKED	-	KMM	REVISED	-
	PLOT DATE = 8/23/2012	DATE	-		REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GILMER ROAD

+3 R +1 Y O G 1 +Y 8 +G

**2** ≻ ∪

5 0 < 7 5 4 7 9 -NO. 6 GREEN

RYG

OAKWOOD ROAD

─NO. 6 GREEN

**CABLE PLAN** 

R Y G +Y +G

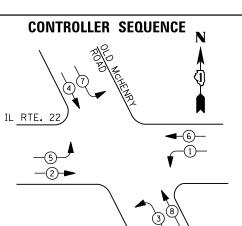
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9+ 4+ 9 4 8

			LUNG	GIVE	, v ∟
IL ROUTE 83 AT GILMER ROAD /OAKWOOD ROAD	I TO I Co	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION AND EMERGENCY VEHICLE PREEMPTION SEQUENC		2012-039TS	LAKE	84	48
AND EWENDENCT VERICLE FREEWIFTION SEQUENCE			CONTRACT	NO. 6	OT84
SCALE: N.T.S. SHEET NO. OF SHEETS STA.	O STA.	ILLINOIS FED. AI	ID PROJECT		

C A G B





DUAL ENTRY PHASE

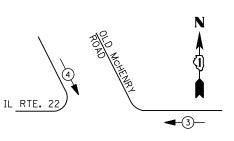
PEDESTRIAN PHASE

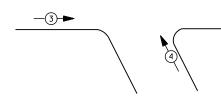
PEDESTRIAN PHASE SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

## EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b></b>	1

	1	. D.	O. T.	
	TRAFFIC S	[ GNAL	INSTALLA	TION
	ELECTRICAL S	SERVIC	E REQUIR	EMENTS
PF	NO. LAMPS	WΔ	TTAGE	% OPERA

	ELECTRICAL	SERVICE	REMENTS		
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	14	1 35	17	0.50	119
(YELLOW)	14	1 35	25	0.25	88
( GREEN)	14	1 35	15	0.25	53
ARROW	16	1 35	12	0.10	19
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	1 00	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	-
VIDEO SYSTEM		150	-	1.00	1
FLASHER LED					

TOTAL =

BILLED TO: VILLAGE OF LONG GROVE

3110 RFD LONG GROVE, IL 60047 379

ENERGY SUPPLY - CONTACT <u>TERRI BLECK</u>

ENERGY COSTS-

PHONE 847-816-5239

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION FULL-ACTUATED CONTROLLER AND TYPE IV CABINET EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM INDUCTIVE LOOP DETECTOR RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT EACH EACH FACH 100% COST TO LONG GROVE

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

**CABLE PLAN** 

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

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.

8 EACH TRAFFIC SIGNAL BACKPLATE

↑ ↑ C ≺ Z

**↑ ↑ ○ → ₽** 

C ≺ Z

3#20

1 EACH CONTROLLER AND CABINET (COMPLETE)

TS# 21525 LONG GROVE

		_							LONG	6 GR	UVE
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 22 AT OLD McHENRY ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEE
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\21525_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11112	2012-039TS	LAKE	84	49
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	NO. 6	0184د
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		

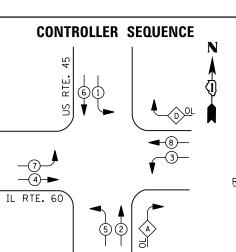
ت × m

IL RTE. 22

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DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

> NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATIO	١
OVER	LAP	PERMISS	SIVE	PROTECTED	
LETT	ER	PHASE	=	PHASE	
Α	=	2	+	3	
D	=	8	+	1	

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

TRACER CABLE

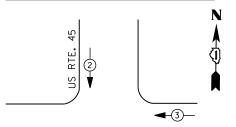
SCALE: N.T.S.

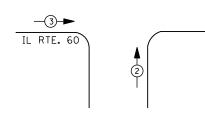
MUNDEL ETN

TS# 6605

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

PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	2	3				
MOVEMENT	<b>4</b>	<b>†</b> †				

	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% 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	24	1 35	12	0.10	29
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	0	150	-	1.00	0
FLASHER LED					

I. D. O. T.

ENERGY COSTS-

FILE NAME =

BILLED TO: IDOT DISTRICT 1

USER NAME = \$USER\$

PLOT DATE = 8/23/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\06605_CAB_LAKE.do

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

425

ENERGY SUPPLY -

CONTACT TERRI BLECK 847-816-5239 PHONE

COMMONWEALTH EDISON

**SCHEDULE OF QUANTITIES** 

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

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 -TRACER CABLE TYPE A CONCRETE FOUNDATION. 'n Š INTERCONNECT TO G 8 ← Y ← G OAK CREEK PLAZA +Y +G α ≻ ∪ † † † † Ω ≺ π (3) IL RTE. 60 **α** ≻ ∪ **† †** NO. 6 <u>~ > 0 } </u> \$ \$ 0 < R C ≺ R G D TRACER CABLE INTERCONNECT TO WILLOW SPRINGS RD. TRACER CABLE INTERCONNECT TO US 45 **CABLE PLAN** 

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

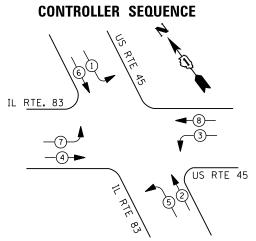
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2 EACH SIGNAL HEAD,1-FACE, 3 - SECT 6 EACH SIGNAL HEAD,1-FACE, 5 - SECT 2 EACH SIGNAL HEAD,2-FACE, 1-3 SECT 1-5 SECTION 2 EACH SIGNAL HEAD,2-FACE, 2-5 SECT 1 EACH SIGNAL POST					
2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECT 1-5 SECTION 2 EACH SIGNAL HEAD, 2-FACE, 2-5 SECT	2	EACH	SIGNAL HEAD, 1-FACE,	3 -	<b>SECTION</b>
1-5 SECTION 2 EACH SIGNAL HEAD, 2-FACE, 2-5 SECT	6	EACH	SIGNAL HEAD, 1-FACE,	5 -	<b>SECTION</b>
•	2	EACH		1 - 3	SECTI ON.
1 EACH SIGNAL POST	2	EACH	SIGNAL HEAD, 2-FACE,	2-5	SECTION
	1	EACH	SIGNAL POST		

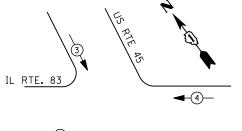
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

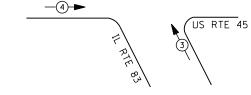
DESIGNED REVISED DW DRAWN JDH REVISED CHECKED KMM REVISED REVISED DATE

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			JTE 45 AT			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEE					ESIGNATION DIAGRAM N SEQUENCE		2012-039TS	LAKE	84	50
	AND EINEN	GENUT	VERICLE FI	AEEIVIF I JUI	N SEQUENCE			CONTRACT	NO. 6	OT84
.S.	SHEET NO.	ΩF	SHEETS	STA.	TO STA.		TILINOIS EED AT	D PPO IECT		



## EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM





#### LEGEND

DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

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

EXISTING FIBER OPTIC SPLICE BOX, POWER SUPPLIES, PTZ SURGE PROTECTORS, ALL NECESSARY WIRING/CABLES AND ANY ADDITIONAL LAKE COUNTY EQUIPMENT SHALL BE RELOCATED TO NEW CONTROLLER CABINET AS NECESSARY, OR AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN THE EXISTING INTERCONNECT SYSTEM. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	-

	1	I. D. O	. T.	
	TRAFFIC SI	I GNAL I	NSTALLA	TION
	ELECTRICAL S	SERVI CE	REQUIR	EMENTS
YPE	NO. LAMPS	WAT	TAGE	% OPERATIONS
		INCAND.	LED	

TYPE	NO. LAMPS	WAT	TAGE	% 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	16	1 35	12	0.10	19
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	1	150	-	1.00	150
FLASHER LED					

ENERGY COSTS- BILI

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON

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

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
2	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, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
17	EACH	INDUCTIVE LOOP DETECTOR
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM. PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET. SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL
1	EACH	RELOCATE EXISTING SWITCH (SPECIAL)
1	EACH	RELOCATE EXISTING VIDEO ENCODER, SPECIAL

* 100% COST TO MUNDELEIN

## TRACER CABLE -SAMPLING LOOPS -EXISTING SAMPLING LOOPS US RTE. 45 დ ≻ ს 2 × 2 <del>↑</del> <del>↑</del> \$ \$ C < 2 3#20 ດ ≺ ѫ IL RTE. 83 TRACER CABLE INTERCONNECT TO **CABLE PLAN** WESTMORELAND DR. SAMPLING LOOPS 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
- 4 EACH SIGNAL HEAD, 5 SECTION
- EACH SIGNAL HEAD, 2 FACE, 1-3 SECTION,
- 1-5-SECTION
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH SIGNAL POST
  1 EACH CONTROLLER AND CABINET (COMPLETE)

TS# 6610 MUNDELEIN

FILE NAME = USER NAME = \$USER\$ DESIGNED - DW REVISED Ni\Projects3\12004\DesignCAD\Sheet Files\12-003 Sheets SW Loke Co\06660_CAB_LAKE.dg\DRAWN - JDH REVISED PLOT SCALE = \$SCALE\$ CHECKED - KMM REVISED PLOT DATE = 8/23/2012 DATE - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.

INTERCONNECT TO

IL RTE. 60 AT

US RTE. 45



#### **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
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	18	1 35	17	0.50	153
(YELLOW)	18	1 35	25	0.25	113
( GREEN)	18	1 35	15	0.25	68
ARROW	20	1 35	12	0.10	24
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	1	150	-	1.00	150
FLASHER LED					

TOTAL =

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT TERRI BLECK

847-816-5239 PHONE

COMMONWEALTH EDISON

658

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

EXISTING INTERSECTION AND SAMPLING DETECTOR LOOPS

EXISTING SPECIAL RAILROAD COMMUNICATION-

CABLE WITH (3) INDIVIDUALLY SHEILDED #14 CONDUCTORS

(LOCAL SUPPLIER: CONTRACTING & MATERIALS PHONE (773) 286-7600)

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

G 9+

G**→** ଧ+

TS# 6865

INTERCONNECT TO ASPEN STREET

TRACER CABLE

d-li_P

MUNDELEIN COUNTY TOTAL SHEET NO. LAKE 84 52 FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW ILL ROUTE 60 AT BUTTERFIELD ROAD SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\06865_CAB_LAKE.do DRAWN JDH REVISED SCHEDULE OF QUANTITIES AND CABLE PLAN 2012-039TS **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T84 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. REVISED PLOT DATE = 8/23/2012 DATE

TRACER CABLE -

IL RTE. 60

(GREEN)

INTERCONNECT TO HAWTHORN PKWY

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(GREEN)

**CABLE PLAN** 

-NO. 6 (GREEN)

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#### SEQUENCE OF OPERATIONS

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BUTTERFIELD ROAD N/8 NEAR RIGHT AND FAR RIGHT SIGNALS	RRRR	R R	RR	RRR	RR	RR	RR	RF	RR	R	G	G G	GR Y	R	G G	R	R	RR	R	R	RC	G	G Y	GR	G Y	R	Y F	₹Y	RI
BUTTERFIELD ROAD N/B MO-MOUNTED WAST ARM SKIMAL	RRRR	RR	RR	RRR	RR	RR	RR	RI	RR	R	G	G Y	RY	R	G G	R	R	RR	R	R	R	G	Υ	R	Y	R	Y F	łΥ	RI
BUTTERFIELD BOAD N/B DID OF MAST ARM AND FAR LEFT SIGNALS	-R -R -R -R	-R-R	-R -R	-R -R -R	R-R	-G -Y	-R -	Y -R -	G G Y	-R	-G	-G-Y	-R-Y	-R	-Y -R	-R	-R	R-1	₹ -R -	-8-	R	R -F	-R	-R	-R	-R	R	R-R	-R-
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BUTTERFIELD ROAD S/B MID-MOUNTED MAST ARM SGRAL	RRRR	RR	RR	RRR	RR	RR	RR	RF	RR	R	R	RR	RR	R	RR	G	Υ	RY	R	G	G	G	Υ	R	Y	R	YF	₹Y	RI
BUTTERFIELD ROAD S/B DID OF WAST ARM AND FAR LEFT SIGNALS	-R-R-R-	-R -R	-R -R	-R -R -R	-R -R	-G -Y	-R -	Y -R -	Y -R -G	-G	-R	-R -F	-R - F	-R	-R -R	-G	-¥ -	R -:	r-R	- Υ	R-	R - F	₹ -R	-R	-R	R	R-	R-R	-R-
ILL ROUTE 60 E/B NEAR RIGHT AND FAR RIGHT SIGNALS	RRRR	RR	GG	GYR	YR	RR	RR	RI	RR	R	R	RR	RR	R	RR	R	R	RF	R	R	RF	R	R	R	R	R	R F	₹R	RI
ILL ROUTE 60 E/B END OF WAST ARM AND FAR LEFT SIGNALS	RRRR	RR	G G	GYR	YR	RR	RR	RI	RR	R	R	RR	RR	R	RR	R	R	RF	R	R	RF	R	R	R	R	R	R F	₹ R	RI
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ELL ROUTE 60 W/S END OF MAST ARM AND FAR LEFT SIGNALS	R R R R	G G	RR	GYR	YR	RR	RR		RR	R	R	RR	RR	R	RR	R	R	RR	R	R	RI	R	R	R	R	R	RF	₹ R	RI
PEDESTRIAN SIGNALS CROSSING EAST LEG OF ILL ROUTE 60	humuhum	1	frankriene.	DWDWDW	DWDW	OWDW	DW D	WDWD	WDWDW	VDW	w	E DV	OWDV	VDW	DWDW	DW	DWE	)WD	NDW	) WC	W W	V 6	DW	DW	DWI	J WC	)WD	WDW	OWD

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

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

PHASE 2+6 SHALL BE PLACED ON RECALL

#### EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS

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EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1.4	18	10	16		ŧξ	1F	16	184	14	ŧΚ	ΊŁ	166	IN	16	10	18	15 1	T	u n	/ 1%	111	17	12	IAA	198	ICC 1	00 1	E 1F	F IGO	1918	1 14	1KK	11.1.	. 786	a int	( 1P	100	ant c	2	3	4	TO NORM
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BUTTERFELD ROAD N/B NEAR RIGHT AND FAR RIGHT SIGNALS	Y-	Y R	G	- Y	R Y	R	R	, R	G -	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	R	RI	₹ F	R	G	Y	R	G	Y	R	G	G	G	R	R	G	<b>♦</b>
BUTTERFIELD ROAD N/B RD-WOUNTED MAST ARM SKINAL	R	R	R	F	3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	₹ F	R	R	G	Υ	R	G	R	RI	3 F	R	G	Υ	R	G	Y	R	G	G	G	R	R	G	$\Diamond$
EUTTERFIELD ROAD N/B DND OF MAST ARM AND FAR LEFT SIGNALS	-R	-R	- F	- 1	₹ -	R-	R	R	-R	-R	-R	-R	-R	R	-R	R	R	¥-	R-	Y -1	₹ - €	-6	-G	-¥	-R	-G	-R	R-	R-I	₹ - F	-R	-F	-R	-R	- F	1 - F	- F	F-F	₹ -R	-R	-R	-G	<b>\Q</b>
BUTTERFIELD ROAD S/10 WEAR RIGHT AND FAR RIGHT SIGNALS	y R	G	Į, I	F	1	R	R	R	R	R Y	R	G R	R	R	R	R	R	R	R	<b>R</b>	R	R	R	R	R	R	Y	R	3 1	R	G	Y	R	G	G	G	G	Y	R	R	G	R	♦
BUTTERFIELD ROAD S/B MD-MOINTED WAST ARM SIGNAL	R	R	8	-4					·	- Andrewson	approxim	(magnetimes)	Garan profes	R	R	R	R	R	R	₹ F	R	R	R	R	R	R	Y	R	3 1	R	G	Y	R	G	G	G	G	Y	R	R	G	R	0
BUTTERFIELD ROAD S/B BND OF WAST ARM AND FAR LEFT SIGNALS	-13	-8	- 6	-1	₹ -	R-	R	R	-R	-R	-R	-R	-R	-R	-R	R	-R	γ.	R-	G - (	G - 1	-R	-R	-R	-R	-8	· ¥ -	R-	G -	Y - R	-FR	- F	-R	-R	1 - R	-6	- 5	-F	₹ -R	-R	-G	-R	<b>♦</b>
LE ROUTE SO E/B WEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	F		R	R	R	R	G	Υ	R	Y	R	G	Y	R	R	R	₹ 6	R	R	R	R	R	R	R	RI	₹ 6	R	R	R	R	R	R	R	R	R	R	G	R	R	$\Diamond$
LL ROUTE 60 E/B IND OF WAST ARM AND FAR LEFT SIGNALS	R	R	R.	F	1	R	R	R	R	G y	Y	R	Y	R	G	Y	R	R	R	₹ 19	R	R	R	R	R	R	R	RI	₹ F	R	R	R	R	R	R	R	R	R	R	G	R	R	♦
LL ROUTE 60 W/B EAR RIGHT AND FAR RIGHT SIGNALS	R	R	ž .	G	- 1	Y	R	Υ	R	R	R	R	R	R	G	Y	R	R	R	R R	۱,	R	R	R	R	R	R 6	RY	RY	R	R	R	R	R	R	R	R	R	R	G	R	R	0
LL ROUTE BO W/B NO OF MAST ARM AND PAR LEFT SIGNALS	R	R	R.	G	V	Υ	R	Y	R	R	R	R	R	R		minned.		anne fra			and the second	4	2	2		3			-	R	8	- Same	- Santana	3	2		R	R	R	G	R	R	0
PEDESTRIAN SIGNAL CROSSING EAST LEG OF ILL ROUTE 60	nw	DW	nv	vo	wo	wr	wc	wir	w	DW	DW	DW	DW E	)W	wc	wi	wc	owo	wb	WD	NON	V D W	FL	DW	DW	FL.	) W C	wb	wlo	N DV	F.	DV	VDW	FL	DV	VOV	/FL	DV	VDW	DW	DW	DW	0

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

#### RAILROAD PREEMPTION SEQUENCE OF OPERATIONS

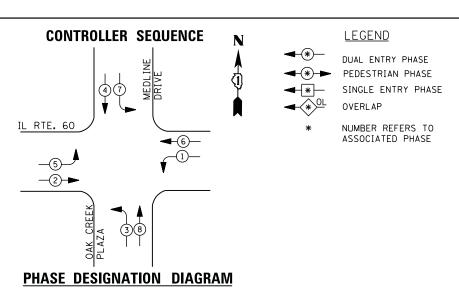
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CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5	7	1	9	1	2	1	7	2	22	2	6	$\geq$	<	$\geq$	<	$\geq$	<					
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RAILROAD PREEMPTION SECRENCE OF OPERATION INTERVAL NUMBER	1A	18	10	10	1E	15	16	114	ال	180	1£	184	114	152	1Q	18	15	17	1U	17	2	3	4	5	70
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	10	2	2	1F	2	784	2	190	2	184	2	169	2	捞	2	17	2	1V	2	3	4	5	$\times$	NORW SEQUE
BUTTERFIELD ROAD N/B MEAR RIGHT AND FAR MIGHT SIGNALS	YR	Y R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Υ	R	R	R	R	G	Δ
BUTTERFIELD ROAD N/B	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Y	R	R	R	R	G	1
BUTTERFIELD ROAD N/B END OF MAST ARM AND FAR LEFT SIGNALS	2		-R	1	-R	-R	-¥	-R	-¥	-R	-R	·R	- <del>R</del>	-R	-R	-R	-R	-R	-¥	-R	-R	-R	-8	-R	
BUTTERFIELD ROAD S/B NEAR HIGHT AND FAR NIGHT SIGNALS	Y-R	R	R	Y R	R	R	R	R	R	R	Υ	R	Y	R	R	R	Υ	R	R	R	R	R	R	G	4
BUTTERFIELD ROAD S/B MB-MCMTED MAST ARM BONAL	R	R	R	R	R	R	R	R	R	R	Υ	R	Υ	R	R	R	Y	R	R	R	R	R	R	G	1
BUTTERFIELD ROAD S/B DID OF MAST ARM AND FAR LIFT SCHALS	-R	-R	·R	-R	-R	-R	-Y	-R	-R	-R	-¥	-R	-R	-R	-R	-R	-¥	-R	- <del>R</del>	-R	-R	-R	-19	-R	1
ILL ROUTE GO E/B NEAR RIGHT AND FAR RIGHT SIGNALS	R	R	R	G	G	G	R	R	R	R	R	R	R	R	G	G	R	R	R	R	G	Y	R	R	1
RL ROUTE 60 E/B END OF MAST ARM AND FAR LEFT SIGNALS	P G	R	R	G	G	G	R	R	R	R	R	R	R	R	G	G	R	R	R	R	G G	Y	R	R	1
EL ROUTE 60 W/B NEAR BYST AND FAR BYSHT DISHALS	R	Y	R	R	Υ	R	R Y-	R	R	R	Y R	R	R	R	Y	R	R	R	R	R	R	R	R	R	4
EL ROUTE 60 W/B END OF MAST ARM AND FAR LEFT SIGNALS	R - Y	Y	R	R	Y	R	R	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	R	Δ
PEDESTRIAN SIGNAL CROSSING EAST LEG OF ILL ROUTE 60	DW	DW	DW	DW	DW	DW	DW	DW	FL	D₩	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	1
Manufacture of Ambient Annual Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Con									e-quap-Pictoria															HOLE	

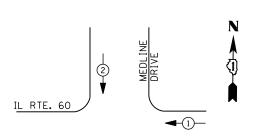
RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

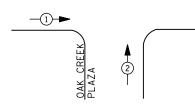
TS# 6865 MUNDELEIN

														101011	.0 1	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			ILL RO	OUTE 60	AT BUTTI	ERFIELD R	0AD	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06865A_CAB_LAKE.c	9ÐRAWN -	JDH	REVISED -	STATE OF ILLINOIS						ON SEQUENCE OF OPERATIONS	11112	2012-039TS	LAKE	84	53
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND RAILROAD	PREEMF	TION SEC	QUENCE O	F OPERATIONS			CONTRAC	T NO. F	50T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI			









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	<b>←</b>	<b> </b>

	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% 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	16	1 35	12	0.10	19
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	0	150	-	1.00	
FLASHER LED					
				TOTAL =	415

I. D. O. T.

ENERGY COSTS-

BILLED TO: VILLAGE OF MUNDELEIN

440 E. HAWLEY STREET

MUNDELEIN, IL 60060
ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239
COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

 QUANTITY
 UNIT
 ITEM

 1
 EACH
 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

 8
 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

 4
 EACH
 SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT

 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

INTERCONNECT TO U.S. RTE.45

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

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

#### 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 TRAFFIC SIGNAL BACKPLATE

NO. 6 GREEN

R

G

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**↑ ↑ 6 ≺ 8** 

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R Y G +Y +G

NO. 6 GREEN

**CABLE PLAN** 

R Y

DRIVE

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2 7 0 7 V

TS# 6905 MUNDELEIN

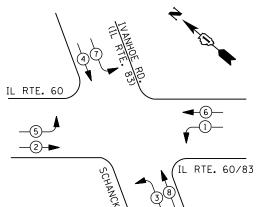
														_			
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			il	L ROUTE	60 AT 0	AK CREEK PLA	AZA	F.A.	SECTION	COUNTY	TOTAL	SHE	Ē
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06905_CAB_LAKE.dg	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	sc					SIGNATION DIAGRAM	IVIE.	2012-039TS	LAKE	84	5	4
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EM	ERGENCY	VEHICLE	PREEMPTION	SEQUENCE			CONTRACT	T NO.	60TF	34
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT			

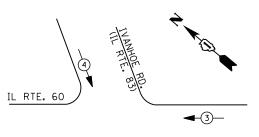
TRACER CABLE

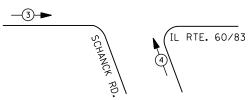
IL RTE. 60











#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	-	1

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
INCAND. LED   WATTA					
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	16	1 35	12	0.10	19
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	ı	1.00	
FLASHER LED					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

415

ENERGY SUPPLY - CO

CONTACT <u>TERRI BLECK</u>

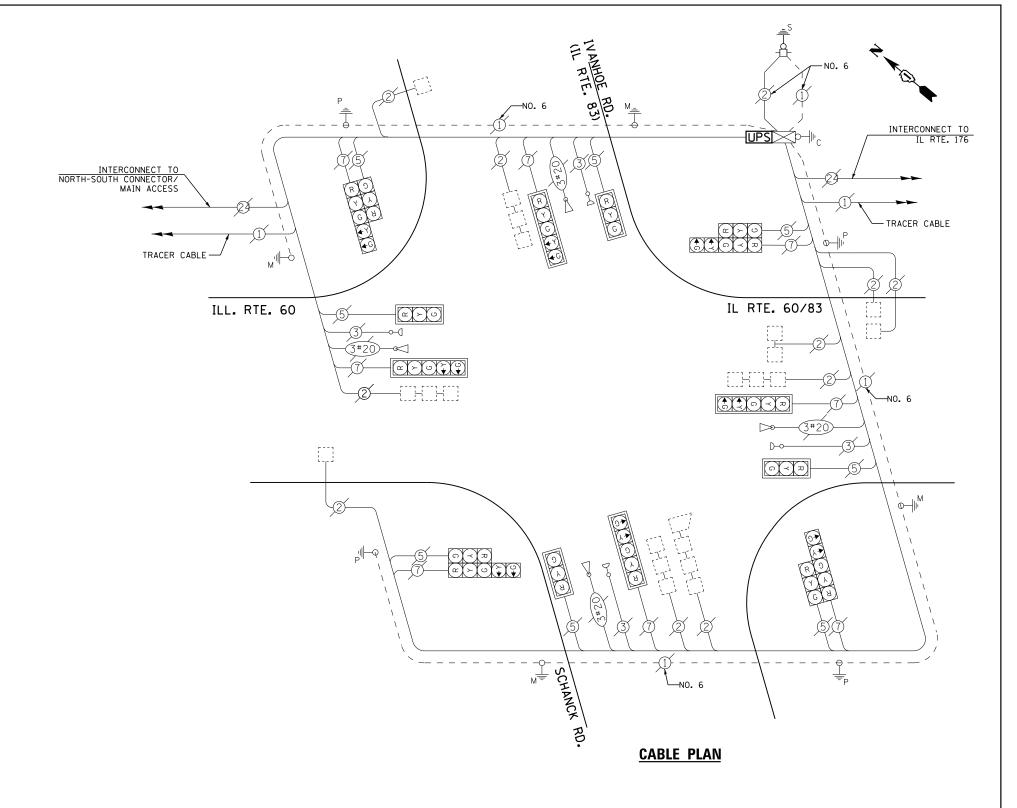
PHONE <u>847-816-5239</u>

COMMONWEALTH EDISON

#### <u>LEGEND</u>

DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE



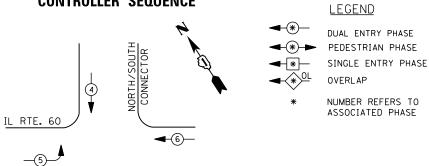
#### **SCHEDULE OF QUANTITIES**

<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

TS# 6910 MUNDELEIN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUT	TE 60- IL	L ROUTE	83 AT SCHA	NCK ROAD		F.A. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06910_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	EDULE OF QUAN							2012-039TS	LAKE	84	55
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EME	RGENCY	VEHICLE	PREEMPTIO	N SEQUENCE				CONTRACT	NO. 60	T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO	STA.		ILLINOIS FED.	AID PROJECT		

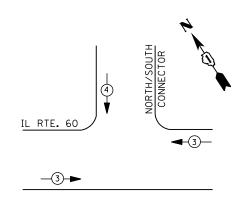




**2** 

ENERGY COSTS-

ENERGY SUPPLY -



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS										
EMERGENCY VEHICLE PREEMPTOR	3	4								
MOVEMENT	-	↓								

		1. D. O			
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	10	1 35	1 7	0.50	85
(YELLOW)	10	1 35	25	0.25	63
( GREEN)	10	1 35	15	0.25	38
ARROW	4	1 35	12	0.10	5
PED. SIGNAL	0	90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	ı	1.00	
FLASHER LED					
I					

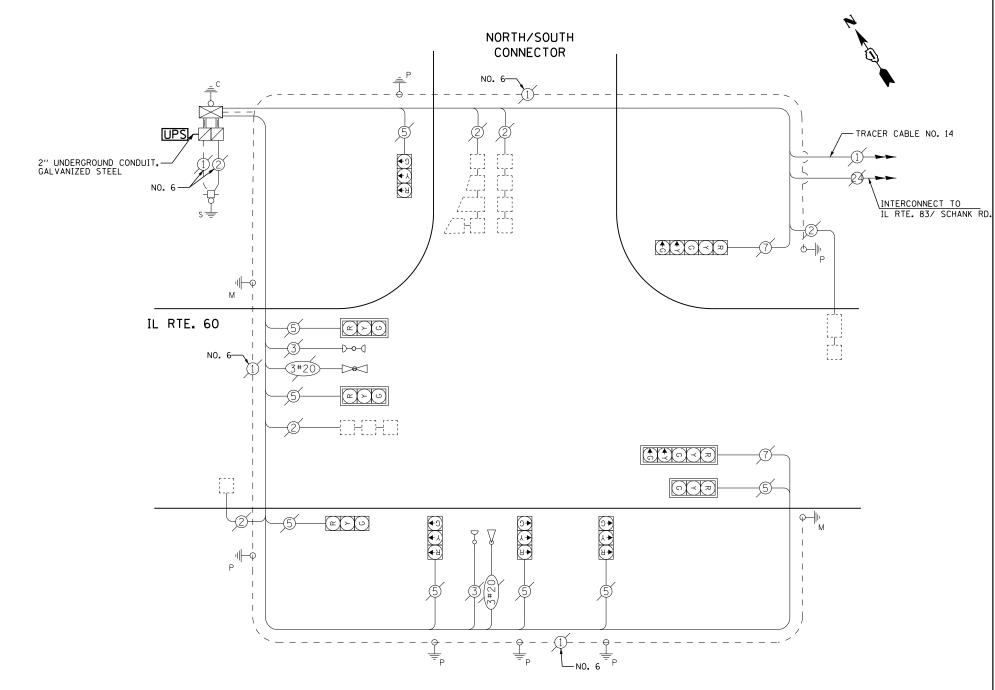
TOTAL = 291 10 F00T 1 EACH 1 EACH 1 EACH 440 E. HAWLEY STREET 1 EACH

MUNDELEIN, IL 60060

CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON



#### **CABLE PLAN**

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

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
10	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	DRILL EXISTING HANDHOLE
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED

TS# 6911 MUNDELEIN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	IL ROUTE 60 AT CONNECTOR								F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET S NO.	
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06911_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS			SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM					2012-039TS		LAKE	84	56	
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION  SCALE: N.T.S. SHEET NO. OF SHEETS STA.				AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			E			CONTRAC	T NO.	60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -						T	O STA.		ILLINOIS FED.	_				





IL RTE. 176 4

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

**LEGEND** 

NUMBER REFERS TO ASSOCIATED PHASE

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

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

-TRACER CABLE

**UPS** 

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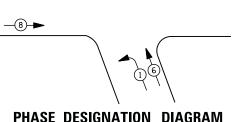
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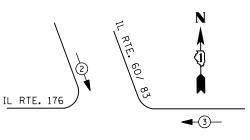
IL RTE. 176

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

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



#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS		
EMERGENCY VEHICLE PREEMPTOR	2	3		
MOVEMENT	1	<b>—</b>		

I. D. O. T.								
TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL	SERVI CE	REQUIR	EMENTS				
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	10	1 35	1 7	0.50	85			
(YELLOW)	10	1 35	25	0.25	63			
( GREEN)	10	1 35	15	0.25	38			
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	1	150	ı	1.00	1			
FLASHER LED								

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

296

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET 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, 3-SECTION, BRACKET MOUNTED
5	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

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

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#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

**CABLE PLAN** 

EACH SIGNAL POST

TRAFFIC SIGNAL BACKPLATE 5 EACH

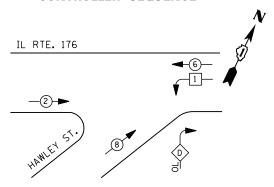
TS# 6915 MUNDELEIN

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FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL RO	OUTE 60-	IL ROUTE	83 AT I	L ROUTE 176	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06915_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		KIE.	2012-039TS	LAKE	84	57				
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE					CONTRAC	T NO. F	60T84			
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



#### CONTROLLER SEQUENCE



#### <u>LEGEND</u>

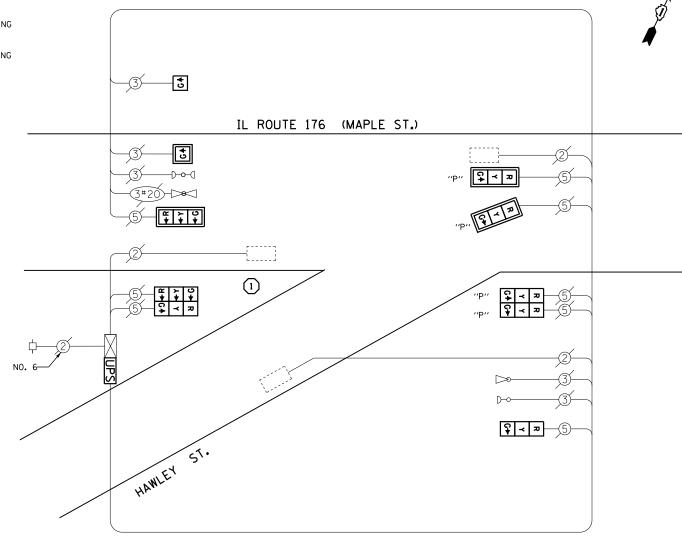
<b>-</b> *-	DUAL ENTRY PHASE PEDESTRIAN PHASE
	SINGLE ENTRY PHASE
<b>★</b> OL	OVERLAP
*	SINGLE ENTRY PHASE

NUMBER REF	ERS TO
ASSOCIATED	PHASE

RIGHT TURN	OVERLAP PHASE	DESIGNATION		
OVERLAP	PERMISSIVE	PROTECTED		
LETTER	PHASE	PHASE		
D =	8 +	1		

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

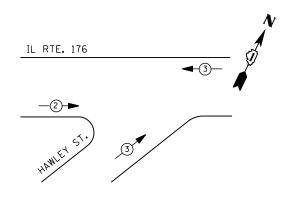
- 2 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- 3 REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- 4 REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



#### **CABLE PLAN**

4 EACH

#### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	2	3					
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)	8	1 35	17	0.50	68					
(YELLOW)	8	1 35	25	0.25	50					
( GREEN)	10	1 35	15	0.25	38					
ARROW		1 35	12	0.10						
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	256					

ENERGY COSTS-

BILLED TO: VILLAGE OF MUNDELEIN

440 E. HAWLEY STREET
MUNDELEIN, IL 60060

ENERGY SUPPLY - CONTACT <u>TERRI BLECK</u>

PHONE 847-816-5239

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

011111777		TTTU
<u>QUANTITY</u>	<u>UN I T</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 1-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 3-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.

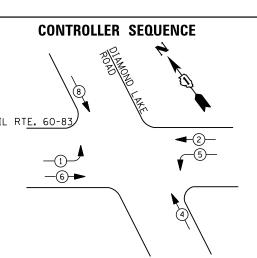
2 EACH SIGNAL HEAD,1 - FACE, 1 - SECTION
4 EACH SIGNAL HEAD,1 - FACE, 3 - SECTION
2 EACH SIGNAL HEAD,2 - FACE, 2-3 SECTION
1 EACH SIGNAL POST

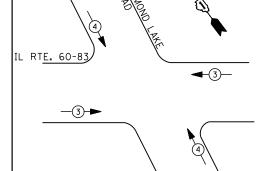
TRAFFIC SIGNAL BACKPLATE

TS# 6916 MUNDELEIN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 176 AT HAWLEY EAST STREET	F.A. RTF.	SECTION		TOTAL SHE	.T
N:\Projects3\12004\DesignCAD\Sheet File:	12-003 Sheets SW Lake Co\06916_CAB_LAKE.dc	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012-039TS	LAKE	84 5	, 🕇 .
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 60TE	4
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT		_



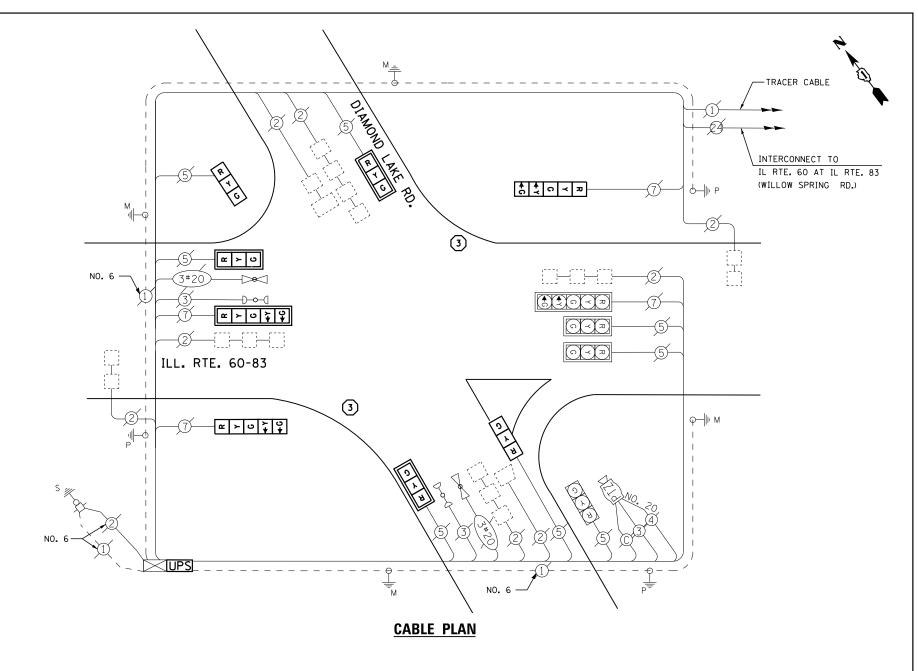




#### LEGEND

- DUAL ENTRY PHASE
  - > PEDESTRIAN PHASE

    → SINGLE ENTRY PHASE
  - OVERLAP
- NUMBER REFERS TO ASSOCIATED PHASE
- 1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- 2 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- 3 REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- 4 REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- (5) REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	<b></b>	1						

	1. 0. 0. 1.					
	TRAFFIC SIGNAL INSTALLATION					
	ELECTRI CAL	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	8	1 35	12	0.10	10	
PED. SIGNAL	1	90	25	1.00		
CONTROLLER	1	1 00	1 00	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM	1	150	-	1.00	150	
FLASHER LED						
				TOTAL =	482	

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239
COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UN I T</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	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, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM 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.

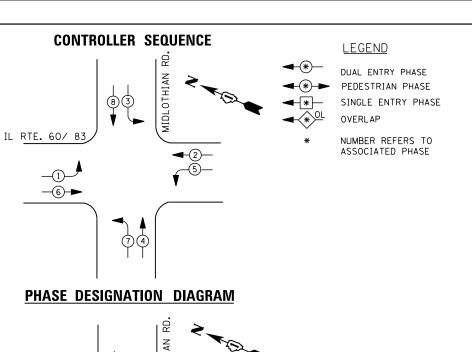
5 EACH SIGNAL HEAD, 3 - SECTION 3 EACH SIGNAL HEAD, 5 - SECTION 4 EACH TRAFFIC SIGNAL BACKPLATE

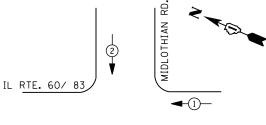
2 EACH SIGNAL POST

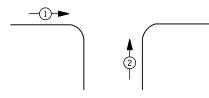
TS# 6920 MUNDELEIN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE	60- IL ROUTE 83 AT DIAMOND	LAKE ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet File	12-003 Sheets SW Lake Co\06920_CAB_LAKE.do	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUA	NTITIES, CABLE PLAN, PHASE DI	SIGNATION DIAGRAM		2012-039TS	LAKE	84	59
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EM	IERGENCY VEHICLE PREEMPTION	SEQUENCE			CONTRACT	T NO. (	60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO.	OF SHEETS STA.	TO STA.		ILLINOIS FED. A			









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	-	<b>↓</b> †

	TRAFFIC SIGNAL INSTALLATION					
	ELECTRICAL	SERVI CE	REQUIR	EMENTS		
TYPE	NO. LAMPS	WAT INCAND.	TAGE LED	% OPERATIONS	TOTAL WATTAGE	
SIGNAL (RED)	8	1 35	1 7	0.50	68	
(YELLOW)	8	1 35	25	0.25	50	
( GREEN)	8	1 35	15	0.25	30	
ARROW	16	1 35	12	0.10	19	
PED. SIGNAL		90	25	1.00	0	
CONTROLLER	1	100	1 00	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM		150	-	1.00		

I. D. O. T.

ENERGY COSTS-

FLASHER LED

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

267

ENERGY SUPPLY -

CONTACT TERRI BLECK
PHONE 847-816-5239

847-816-5239 COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

 OUANTITY
 UNIT
 ITEM

 1
 EACH
 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

 1
 EACH
 MODIFY EXISTING CONTROLLER CABINET

 1
 EACH
 UNINTERRUPTABLE POWER SUPPLY, SPECIAL

 8
 EACH
 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED, RETROFIT

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

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

TS# 6925 MUNDELEIN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 60- IL ROUTE 83 AT MIDLOTHIAN ROAD	F.A. RTF.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06925_CAB_LAKE.d		JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-039TS	LAKE 84 60
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.   SHEET NO. OF SHEETS   STA. TO STA.		ILLINOIS FED. A	AID PROJECT

IL RTE. 60/ 83

B.

MIDLOTHIAN

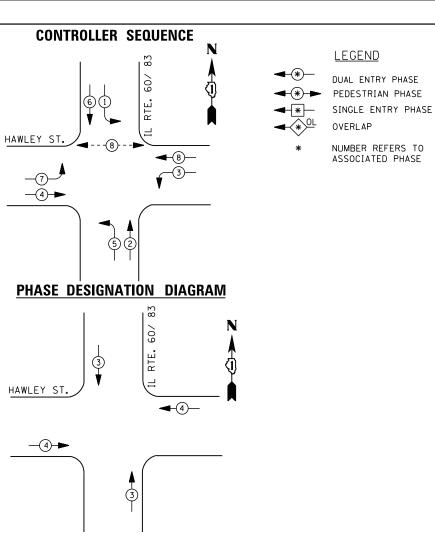
R Y G + Y + G

R
Y
G
+Y
+G

**CABLE PLAN** 

3+ A B 7





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	1	<b>†</b>	

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS							
TYPE	NO. LAMPS						
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	8	1 35	1 7	0.50	68		
( YELLOW)	8	1 35	25	0.25	50		
( GREEN)	8	1 35	15	0.25	30		
ARROW	16	1 35	12	0.10	19		
PED. SIGNAL	2	90	25	1.00	50		
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	ı	1.00	1		
FLASHER LED							

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

TOTAL =

317

ENERGY SUPPLY - CONTACT <u>TERRI BLECK</u>

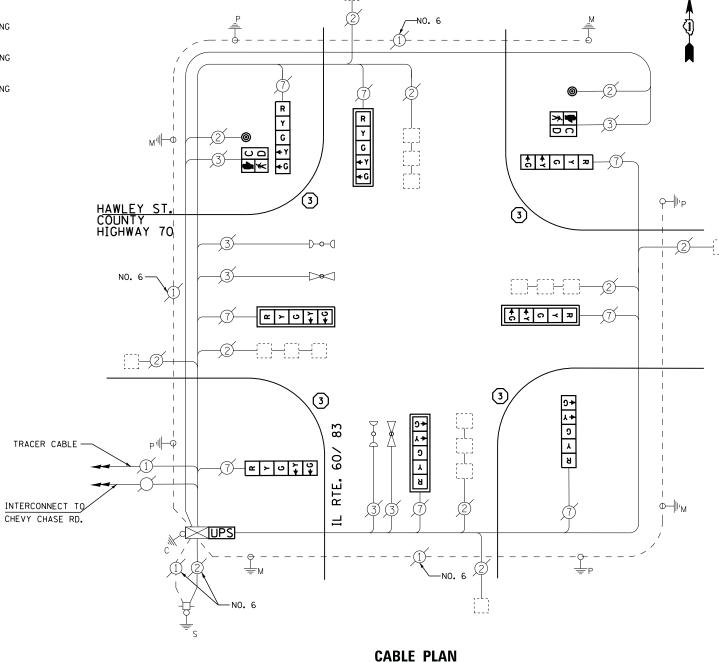
CONTACT TERRI BLECK
PHONE 847-816-5239

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

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

3 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

<u>OUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
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
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	UNINTERRUPTARIE POWER SUPPLY SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

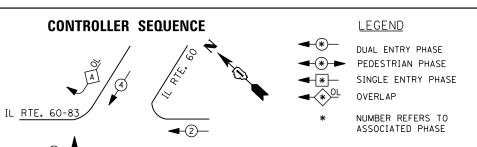
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

TS# 6930 MUNDELEIN

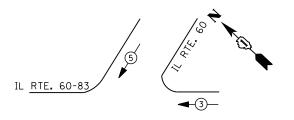
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			83 AT HAWLEY STREET	F.A. RTF	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06930_CAB_LAKE.c	den DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			2012-039TS	LAKE 84 61
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEE	TS STA. TO STA.		ILLINOIS FED. A	AID PROJECT

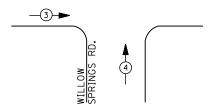




RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	
OVERI	AP	PERMISS	IVF	PROTECTED	
LETTE	R	PHASE		PHASE	
Α	=	4	+	1	

(3)





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEH	ICLE PREE	EMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	<b>—</b>	1	/

I. D. O. T.												
	TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS												
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL							
		INCAND.	LED		WATTAGE							
SIGNAL (RED)	13	1 35	1 7	0.50	111							
(YELLOW)	13	1 35	25	0.25	81							
( GREEN)	13	1 35	15	0.25	49							
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	1							
FLASHER LED												
				TOTAL =	351							

ENERGY COSTS-

BILLED TO: VILLAGE OF MUNDELEIN 440 E. HAWLEY STREET

MUNDELEIN, IL 60060

CONTACT TERRI BLECK ENERGY SUPPLY -PHONE 847-816-5239

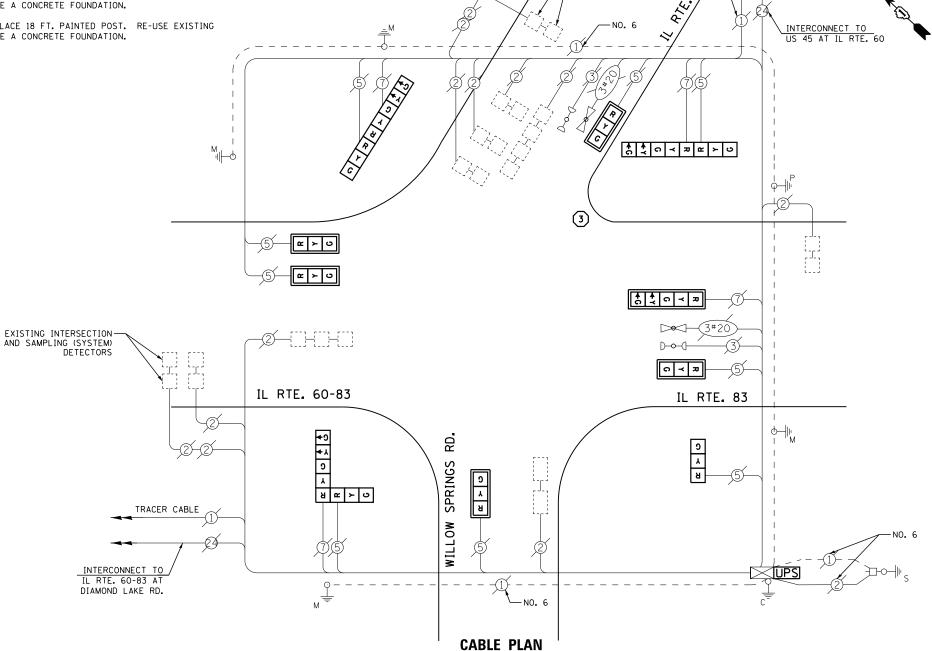
COMMONWEALTH EDISON

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

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
6	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

TRACER CABLE -

-EXISTING INTERSECTION
AND SAMPLING (SYSTEM)
DETECTORS

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 EACH EACH

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

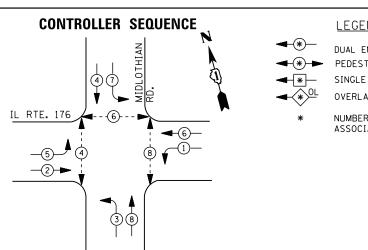
1-5-SECTION TRAFFIC SIGNAL BACKPLATE EACH

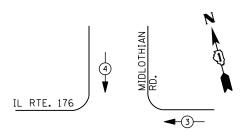
EACH SIGNAL POST

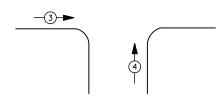
TS# 6935 MUNDELEIN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	OTATE OF HUMOIO					W SPRINGS ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL	L SHEE
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06935_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				2012-039TS	LAKE	84	62		
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRAC	CT NO.	60T84			
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF	F SHE	ETS STA.	TO STA.		ILLINOIS FE	D. AID PROJECT		









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VI	EHICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>†</b>	

	TRAFFIC SIGNAL INSTALLATION											
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% 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	16	1 35	12	0.10	19							
PED. SIGNAL	6	90	25	1.00	150							
CONTROLLER	1	100	100	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	ı	1.00								
FLASHER LED												
				TOTAL =	528							

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

COMMONWEALTH EDISON

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

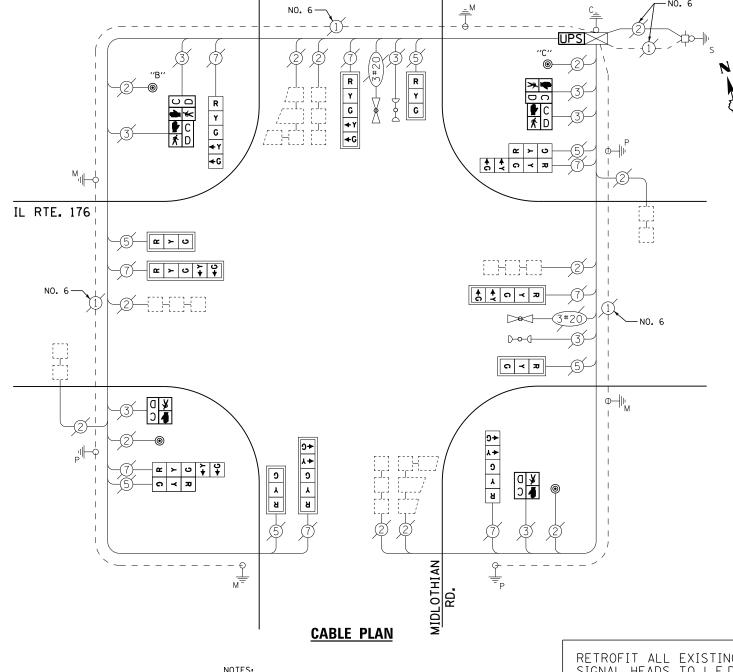
847-816-5239

#### LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

#### **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 WITH COUNTDOWN TIMER
2	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
2	EACH	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
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
2	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
4	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

EACH PEDESTRIAN PUSH-BUTTON

TS# 7145 MUNDELEIN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 176 AT MIDLOTHIAN ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-003 Sheets SW Lake Co\07145_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,112	2012-039TS	LAKE	84	63
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	T NO. 6	OT84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJE			



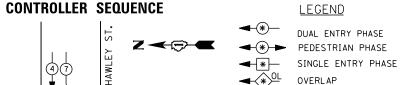
MIDLOTHIAN

RD.

-(1)-

OL C

**−**6 **→** 



NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN		OVERLAP	PHASE	DESIGNATIO		
OVERI	_AP	PERMISS	PROTECTED			
LETTE	R	PHASE	PHASE			
В	=	8	+	5		
C =		6	+	3		

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

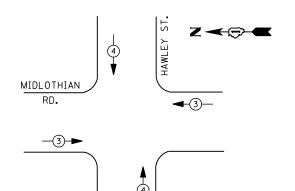
REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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

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

#### PHASE DESIGNATION DIAGRAM

3 8 B



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	<b>—</b>	<b>↓</b> ↑			

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	% 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	24	1 35	12	0.10	29
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					

ENERGY COSTS-

BILLED TO: VILLAGE OF MUNDELEIN 440 E. HAWLEY STREET

MUNDELEIN, IL 60060

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

TOTAL =

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	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

**CABLE PLAN** 

-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.

- EACH
- SIGNAL HEAD, 1 FACE, 5 SECTION SIGNAL HEAD, 2 FACE, 2-5 SECTION PEDESTRIAN SIGNAL HEAD FACH FACH
- EACH PEDESTRIAN PUSH-BUTTON EACH TRAFFIC SIGNAL BACKPLATE
- SIGNAL POST EACH

ST.

HAWLEY

⊃ Q **♣** ≰

**MIDLOTHIAN** AVE.

-NO. 6

GREEN

R Y G + Y + G

G Y **→** G **→** 

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**≯** • C

TS# 14335 MUNDELEIN

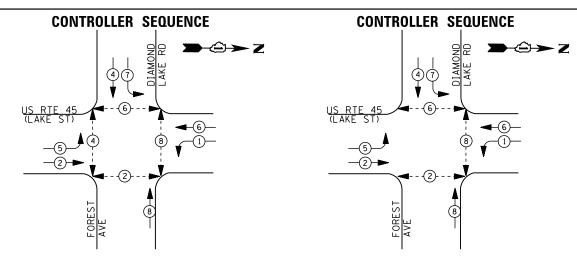
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-NO. 6 GREEN

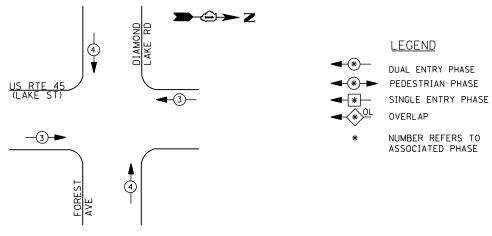
-NO. 6

									MU	ששעווע	.EIN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		MIDLOTHIAN AVENUE AT HAWLEY STREET	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\14335_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11112	2012-039TS	LAKE	84	64
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. F	0T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.   SHEET NO. OF SHEETS   STA. TO STA.		ILLINOIS FED	AID PROJECT		





#### **EXISTING PHASE DESIGNATION DIAGRAM** PROPOSED PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b> ^	<b> </b>

	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	17	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	6	90	25	1.00	150
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	0	150	-	1.00	0
	•				·
FLASHER LED	·				

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

CONTACT TERRI BLECK ENERGY SUPPLY -PHONE

847-816-5239 COMMONWEALTH EDISON

### **SCHEDULE OF QUANTITIES**

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

T- -

NO. 6 -

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. 8 EACH PEDESTRIAN SIGNAL HEAD 7 EACH PEDESTRIAN PUSH-BUTTON

DIAMOND LAKE RD

NO. 6 -GREEN

REMOVE EXISTING PEDESTRIAN HEAD AND PUSH-BUTTON, AND

ABANDON EXISTING CABLE

NO. 6 GREEN

FOREST AVE

**CABLE PLAN** 

REMOVE EXISTING PEDESTRIAN

HEAD AND ABANDON EXISTING

CABLE

US RTE. 45

(LAKE ST.)

TS# 14340 MUNDFLEIN

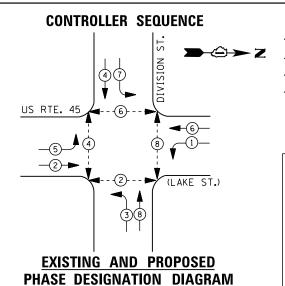
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TRACER CABLE

INTERCONNECT TO ALLANSON RD.

										,,,D
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 45 AT DIAMOND LAKE ROAD	F.A. S	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\14340_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	20	12-039TS	LAKE	84 65
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				T NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED AT		



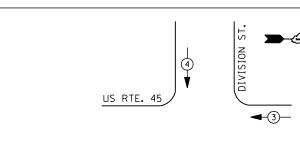


EXISTING FIBER OPTIC SPLICE BOX, POWER SUPPLIES, PTZ SURGE PROTECTORS, ALL NECESSARY WIRING/CABLES AND ANY ADDITIONAL LAKE COUNTY EQUIPMENT SHALL BE RELOCATED TO NEW CONTROLLER CABINET AS NECESSARY, OR AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN THE EXISTING INTERCONNECT SYSTEM. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

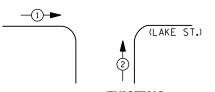
LEGEND

DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



**-**(3)**-**►



US RTE. 45

## EMERGENCY VEHICLE PREEMPTION SEQUENCE

**1** 

EMERGENCY VE	HICLE PREI	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	<b>—</b>	

	Ι.	D.	0.	Т.	
TRAFFIC	SIG	NAL	ΙN	ISTALLATION	
ELECTRICAL	. SEI	RVI	CE	REQUIREMENTS	ŝ

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	16	1 35	12	0.10	19
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 =	541

ENERGY COSTS-

BILLED TO: VILLAGE OF MUNDELEIN
440 E. HAWLEY STREET

MUNDELEIN, IL 60060

ENERGY SUPPLY - CONTACT <u>TERRI BLECK</u>
PHONE 847-816-5239

847-816-5239 COMMONWEALTH EDISON



EMERGENCY VE	HICLE PREI	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

(LAKE ST.)

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

1 EACH CONTROLLER AND CABINET (COMPLETE)

#### **SCHEDULE OF QUANTITIES**

QUANTI	<u>TY</u> <u>UNIT</u>	TIEM P
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	INDUCTIVE LOOP DETECTOR
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
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
*	100% COST TO	MUNDELEIN

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

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

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

> TS# 14345 MUNDELEIN

-TRACER CABLE

INTERCONNECT TO

HAWYLEY ST.

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet File s 12-003 Sheets SW Lake Co\14345_CAB_LAKE.do DRAWN JDH REVISED CHECKED КММ REVISED PLOT DATE = 8/23/2012 DATE REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRACER CABLE -

INTERCONNECT TO

NO. 6 (GREEN)

COURTLAND ST.

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SCALE: N.T.S.

US RTE. 45

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SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

SHEET NO. OF SHEETS STA. TO STA.

MUNDELE IN

F.A. RTE. SECTION COUNTY TOTAL SHEETS NO.

2012-039TS LAKE 84 66

CONTRACT NO. 60T84

NO. 6 (GREEN)

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**CABLE PLAN** 

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

**S** 

ST

DIVISION

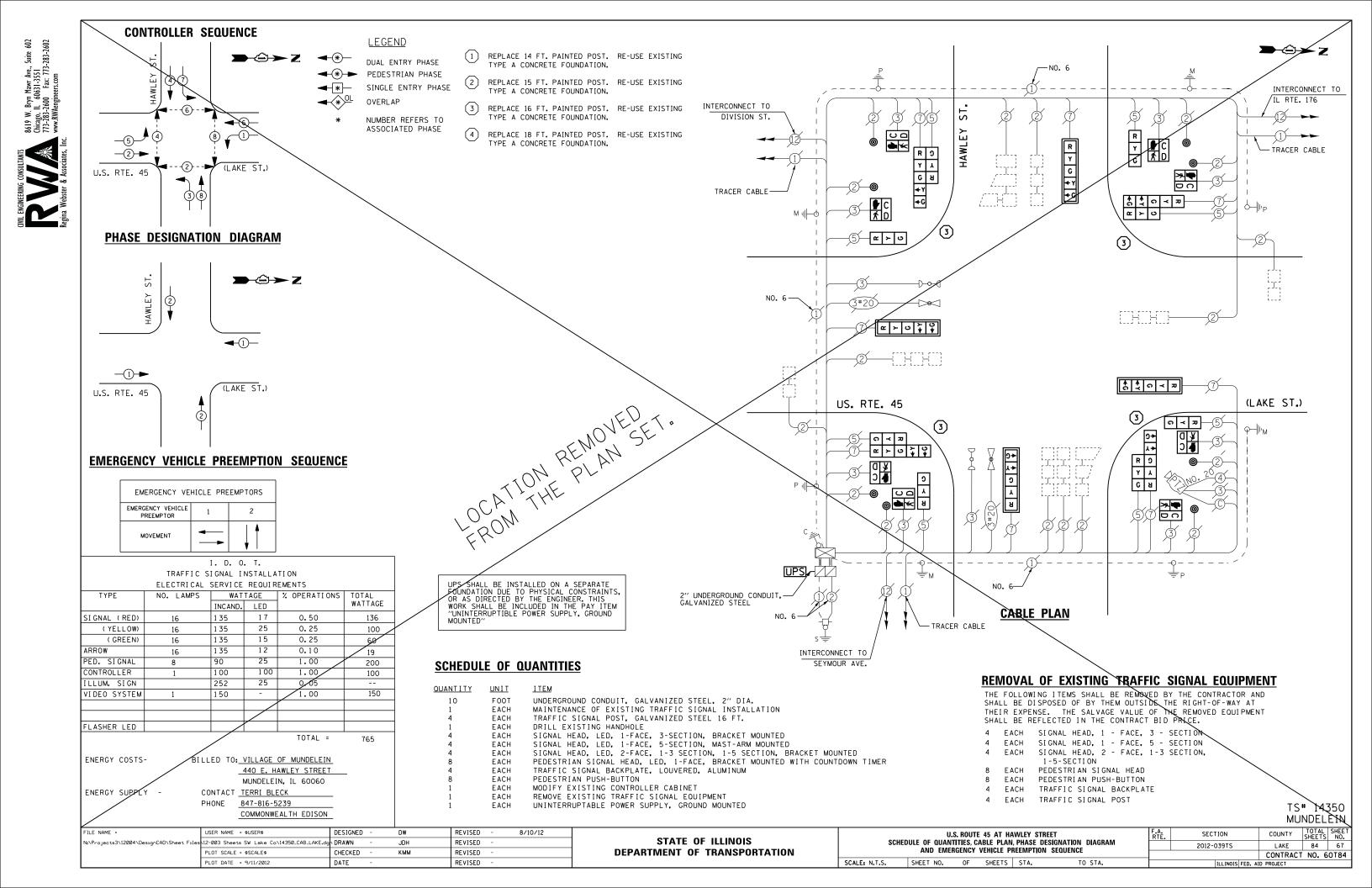
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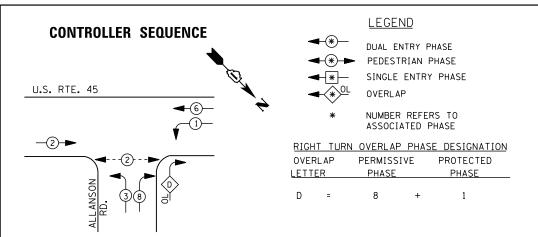
r V B

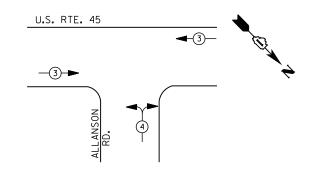
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(LAKE ST.)









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	EHICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>*</b>

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	10	1 35	17	0.50	85
(YELLOW)	10	1 35	25	0.25	63
( GREEN)	10	1 35	15	0.25	38
ARROW	8	1 35	12	0.10	10
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					

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY - CONTACT <u>TERRI BLECK</u>
PHONE 847-816-5239

ONE 847-816-5239

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 TIMER
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TRACER CABLE -

## R 7 (5) INTERCONNECT TO DIAMOND LAKE ROAD EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS (a)_\(\pi\) U.S. RTE. 45 (LAKE ST.) ALLANSON , C ₩ D **≯** ♥ φ- -**CABLE PLAN**

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

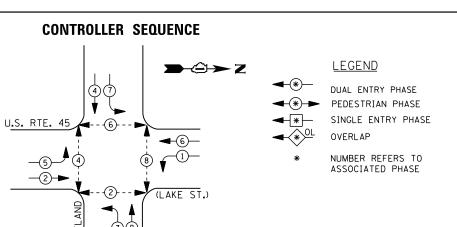
2 EACH PEDESTRIAN SIGNAL HEAD

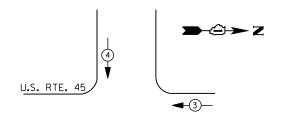
2 EACH PEDESTRIAN PUSH-BUTTON

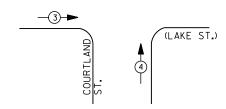
TS# 14370 MUNDELEIN

F	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			US ROUTE 45 AT ALLANSON ROAD	F.A.	SECTION	COUNTY TOTAL SHEET
١	N:\Projects3\12004\DesignCAD\Sheet Files	.12-003 Sheets SW Lake Co\14370_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDU		11112	2012-039TS	LAKE 84 68
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T84	
		PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>←</b>	

	I. D. O. T.													
	TRAFFIC S	I GNAL I	NSTALLA	TION										
	ELECTRICAL	SERVI CE	REQUI R	EMENTS										
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	16	1 35	12	0.10	19									
PED. SIGNAL	8	90	25	1.00	200									
CONTROLLER	1	100	100	1.00	100									
ILLUM. SIGN		252	25	0.05										
VIDEO SYSTEM		150	ı	1.00										
					·									
FLASHER LED														
				TOTAL =	541									

ENERGY COSTS-

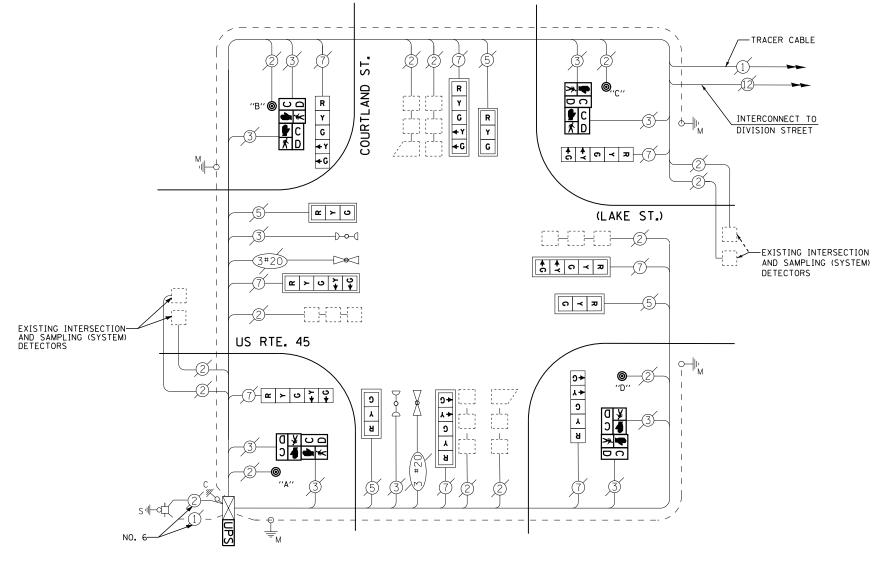
ENERGY SUPPLY -

BILLED TO: VILLAGE OF MUNDELEIN 440 E. HAWLEY STREET

MUNDELEIN, IL 60060

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON 541



#### **CABLE PLAN**

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

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

#### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	<u>ITEM</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

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

8 EACH PEDESTRIAN SIGNAL HEAD

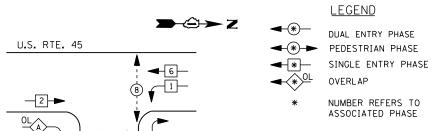
4 EACH PEDESTRIAN PUSH-BUTTON

TS# 14372 MUNDELEIN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		U.S. ROUTE 45 AT COURTLAND STREET SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\14372_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS			2012-039TS	LAKE 84 69
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT

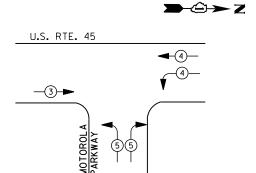


#### **CONTROLLER SEQUENCE**



	RIGHT	TURN OVE	RLAP	PHASE	DESIGNA	TION
OVERL	.AP	PERMISSIVE	Ξ	PROTEC	TED	DISPLAY
LETTER	7	PHASE		PHASE		PHASE
Α	=	2	+	3	-	2
D	=	6	+	1	_	8

#### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	RS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5		
MOVEMENT	-	<b>—</b>	<b>T</b>		

		I. D. 0	. Т.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	<b>ELECTRI CAL</b>	SERVI CE	REQUI R	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	13	1 35	17	0.50	111
(YELLOW)	13	1 35	25	0.25	81
( GREEN)	13	1 35	15	0.25	49
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 =	401

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF MUNDELEIN 440 E. HAWLEY STREET

MUNDELEIN, IL 60060 CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

QUANTITY <u>UNIT</u> 401

EACH

**SCHEDULE OF QUANTITIES** 

EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN PUSH-BUTTON

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

EXISTING INTERSECTION -AND SAMPLING (SYSTEM)

DETECTORS

EACH MODIFY EXISTING CONTROLLER CABINET REMOVE 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

EACH PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSH-BUTTON

MOTOROLA PARKWAY

**CABLE PLAN** 

## REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

SHALL	DE	DI 3F 03	SED O	г Б	1 10	E IVI OL	101		INE	KI GHI - OF	- WAI	AI
THEIR	EXF	PENSE.	THE	SAI	LVAG	E VAL	_UE	OF	THE	REMOVED	EQUI	PMENT
SHALL	BE	REFLEC	CTED	IN	THE	CONTR	RACT	ΒI	D PF	RICE.		

UPS>

0 ¥ 3 **4** 

TS# 21260 MUNDELEIN

**>**-2→Z

-EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

-TRACER CABLE

INTERCONNECT TO

WINCHESTER ROAD

COUNTY TOTAL SHEET NO.

LAKE 84 70 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED US ROUTE 45 AT MOTOROLA PARKWAY
SCHEDULE OF QUANTITIES. CABLE PLAN. PHASE DESIGNATION DIAGRAM DW SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\21260_CAB_LAKE.dg DRAWN JDH REVISED 2012-039TS AND EMERGENCY VEHICLE PREEMPTION SEQUENCE **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T84 SCALE: N.T.S. SHEET NO. OF SHEETS STA. REVISED PLOT DATE = 8/23/2012 DATE

TRACER CABLE -

U.S. RTE. 45



U.S. RTE. 45

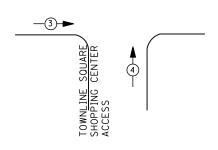
LEGEND DUAL ENTRY PHASE **→** * PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### PHASE DESIGNATION DIAGRAMS

U.S. RTE. 45 **(**3)—



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>—</b>	4		

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	10	1 35	17	0.50	85
(YELLOW)	10	1 35	25	0.25	63
( GREEN)	10	1 35	15	0.25	38
ARROW	4	1 35	12	0.10	5
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 =	291

BILLED TO: VILLAGE OF MUNDELEIN ENERGY COSTS-440 E. HAWLEY STREET MUNDELEIN, IL 60060 CONTACT TERRI BLECK ENERGY SUPPLY -PHONE 847-816-5239 COMMONWEALTH EDISON

## R Y ←G R റ ≺ ਸ਼ R G→ м ⊪ф U.S. RTE. 45 **æ** ≻ ∪ ~ > U \ \ \ ດ ≺ ສ TRACER CABLE -~ > o \ \ \ \ \ \ INTERCONNECT TO

TOWNLINE SQUARE SHOPPING CENTER ACCESS

NO. 6-

**CABLE PLAN** 

#### **SCHEDULE OF QUANTITIES**

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

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

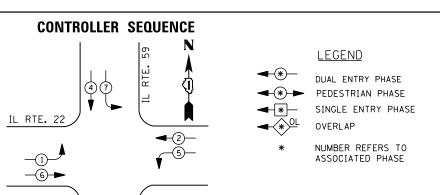
RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

TS# 21975 MUNDELEIN

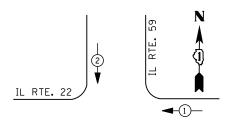
**→②**→ Z

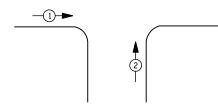
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		U.S ROUTE 45 AT TOWNLINE SI SCHEDULE OF QUANTITIES, CABLE PLAN, PHA AND EMERGENCY VEHICLE PREEMI				F. R	.A.	SECTION	COUNTY	TOTAL	SHEET		
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\21975_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS			: PLAN, PHASE DESIGNATION DIAGRAM				2012-039TS	LAKE	84	71		
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EIVIER	IGENUT	VEHICLE PI	NECIVIP I IUN	3 SEQUENCE				CONTRAC	T NO. (	о́ОТ84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO.		OF	SHEETS	STA.	TO STA.			ILLINOIS FED. A			





38





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	1	2					
MOVEMENT	-	<b>↓</b> ↑					

		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	19			
PED. SIGNAL		90	25	1.00				
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05	-			
VIDEO SYSTEM	1	150	ı	1.00	1			
FLASHER LED								
				TOTAL =	341			

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

ENERGY SUPPLY -

CONTACT DAVE SCHACHT PHONE 630-437-2129

COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

# —NO. 6 GREEN RTE. NO. 6 — GREEN IL RTE. 22 NO. 6 -GREEN **CABLE PLAN**

#### SCHEDULE OF QUANTITIES

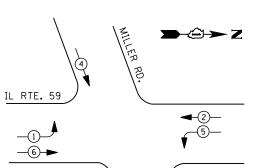
<u>OUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 6740 NORTH BARRINGTON

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 22 AT IL ROUTE 59	F.A.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06740_CAB_LAKE.dg	nDRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		11112	2012-039TS	LAKE	84 72
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T84		
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FE	D. AID PROJECT	





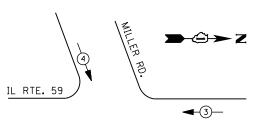


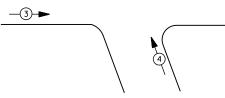
#### <u>LEGEND</u>

DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OVERLAP

* NUMBER REFERS TO ASSOCIATED PHASE

#### **PHASE DESIGNATION DIAGRAM**





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	\^

1. D. O. 1.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	14	1 35	17	0.50	119						
(YELLOW)	14	1 35	25	0.25	88						
( GREEN)	14	1 35	15	0.25	53						
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	1						
FLASHER LED											
				TOTAL =	370						

BILLED TO: IDOT DISTRICT 1

CONTACT DAVE SCHACHT

630-437-2129

PHONE

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

ENERGY COSTS-

ENERGY SUPPLY -

#### **SCHEDULE OF QUANTITIES**

OUANTITY UNIT ITEM

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

IL RTE. 59

TS# 6860 NORTH BARRINGTON

**CABLE PLAN** 

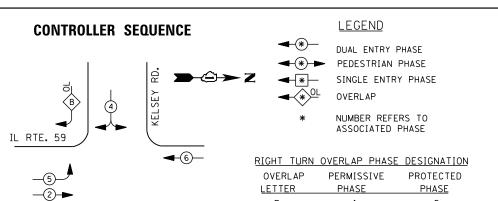
**→**②→ Z

COUNTY TOTAL SHEET NO.

LAKE 84 73

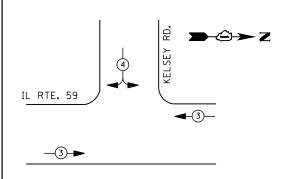
CONTRACT NO. 60184 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED IL ROUTE 59 AT MILLER ROAD
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\06860_CAB_LAKE.do DRAWN JDH REVISED 2012-039TS **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 8/23/2012 DATE





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#### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>←</b>	<b>——</b>

I. D. O. T.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	11	1 35	17	0.50	94						
(YELLOW)	11	1 35	25	0.25	69						
( GREEN)	11	1 35	15	0.25	41						
ARROW	4	1 35	12	0.10	5						
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00	1						
FLASHER LED											
				TOTAL =	309						

ENERGY COSTS-

BILLED TO: VILLAGE OF TOWER LAKES 400 NORTH IL RTE 59

TOWER LAKES, IL 60010

CONTACT TERRI BLECK ENERGY SUPPLY -PHONE 847-816-5239

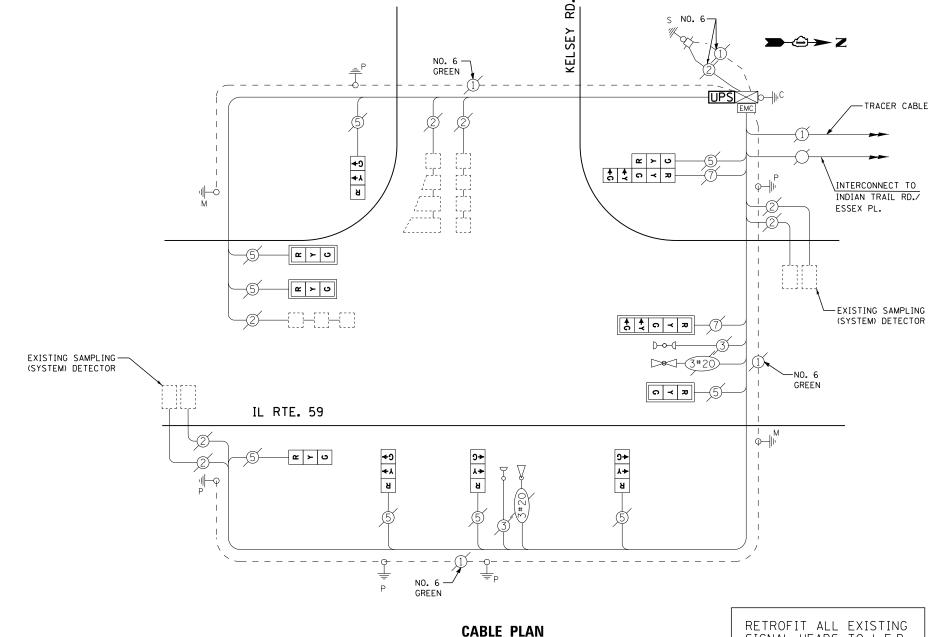
COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
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, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
5	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

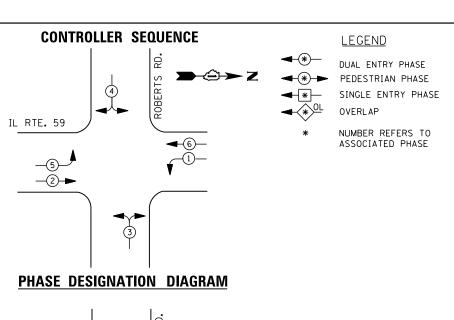
TS# 21190 TOWER LAKES

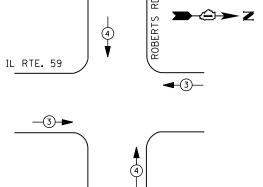
COUNTY TOTAL SHEET NO. LAKE 84 74 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW IL ROUTE 59 AT KELSEY ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION COUNTY STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\21190_CAB_LAKE.dg DRAWN JDH REVISED 2012-039TS **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T84 REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 8/23/2012 DATE



RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D







#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE 3 4

MOVEMENT 4

1. D. O. I.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	13	1 35	1 7	0.50	111					
(YELLOW)	13	1 35	25	0.25	81					
( GREEN)	17	1 35	15	0.25	64					
ARROW	8	1 35	12	0.10	10					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	ı	1.00						
FLASHER LED										
				TOTAL =	366					

ENERGY COSTS-

BILLED TO: VILLAGE OF TOWER LAKES
400 NORTH IL RTE 59

TOWER LAKES, IL 60010

ENERGY SUPPLY -

CONTACT TERRI BLECK
PHONE 847-816-5239
COMMONWEALTH EDISON

OF TOWER LAKES

CABLE PLAN

SCHEDULE OF QUANTITIES

QUANTITY UNIT ITEM

10 FOOT UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

1 EACH DRILL EXISTING HANDHOLE

1 EACH MODIFY EXISTING CONTROLLER CABINET

1 EACH UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED

2 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT

3 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

2 EACH SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT

2 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

2 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

IL RTE. 59

NO. 6

2" UNDERGROUND CONDUIT, GALVANIZED STEEL

EXISTING SAMPLING — (SYSTEM) DETECTOR

TRACER CABLE -

INTERCONNECT TO INDIAN TRAIL RD./ ESSEX PL.

B.

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

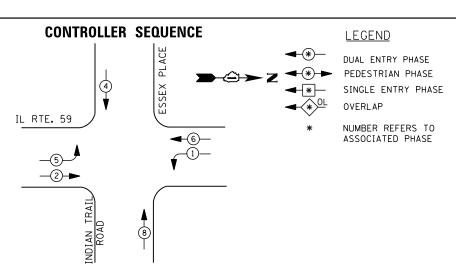
-EXISTING SAMPLING (SYSTEM) DETECTOR

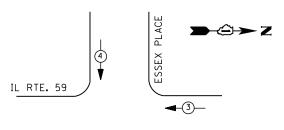
UPS SHALL BE INSTALLED ON A SEPARATE FOUNDATION DUE TO PHYSICAL CONSTRAINTS, OR AS DIRECTED BY THE ENGINEER, THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED"

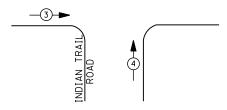
TS# 22040 TOWER LAKES

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 59 AT ROBERTS ROAD	F.A.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\22040_CAB_LAKE.d	∩DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	HEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11,12	2012-039TS	LAKE	84 75
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				T NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A		









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>†</b>	<del></del>

I. D. O. T.											
TRAFFIC SIGNAL INSTALLATION											
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	8	1 35	12	0.10	10						
PED. SIGNAL	0	90	25	1.00	0						
CONTROLLER	1	100	100	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00	1						
FLASHER LED											
	TOTAL = 332										

ENERGY COSTS- BILLED TO: VILLAGE OF TOWER LAKES

400 NORTH IL RTE 59

TOWER LAKES, IL 60010

ENERGY SUPPLY - CONTACT <u>TERRI BLECK</u>
PHONE 847-816-5239

COMMONWEALTH EDISON

## 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
2 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
2 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
2 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

INTERCONNECT TO KELSEY RD.

TRACER CABLE -

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

**→**②→ Z

INTERCONNECT TO ROBERTS RD.

TRACER CABLE

TS# 22041 TOWER LAKES

											TOWLIN	LANL	-3
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 59 AT INDIAN	I TRAIL ROAD	F.A.	SECTION	COUNTY	TOTAL S	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	\12-003 Sheets SW Lake Co\22041_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			1112	2012-039TS	LAKE	84	76
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	T NO. 60	T84	
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.		ILLINOIS FED.	AID PROJECT		

IL RTE. 59

NO. 6-

PLACE

ESSEX

INDIAN

-NO. 6

**CABLE PLAN** 

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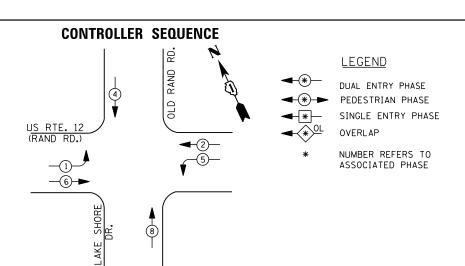
A A O X 7

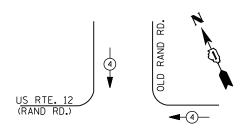
1 1 0 4 D

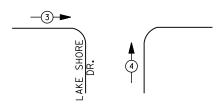
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#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	<b>↓</b> †

I. D. O. T.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% 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	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	1	150	ı	1.00	1						
FLASHER LED											
				TOTAL =	370						

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CO

CONTACT TERRI BLECK
PHONE 847-816-5239

COMMONWEALTH EDISON

### SCHEDULE OF QUANTITIES

<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

TS# 960 UNINC.

B.

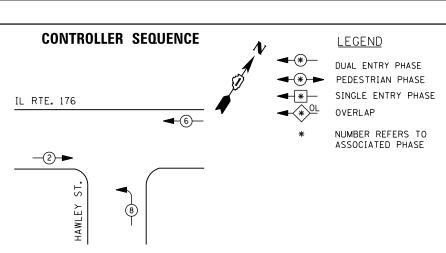
OLD RAND

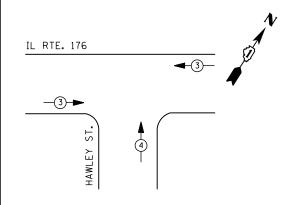
**CABLE PLAN** 

US RTE. 12 (RAND RD.)

										0.11.101
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 12 AT LAKE SHORE DRIVE	F.A. SE	CTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\00960_CAB_LAKE.d	g∩DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2012	-039TS	LAKE	84 77
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				T NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE, N.T.S. SHEET NO. OF SHEETS STA. TO STA.	1	THE INOIS FED.	ID PROJECT	







#### EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS										
EMERGENCY VEHICLE PREEMPTOR	3	4								
MOVEMENT	<b>—</b>	<b>†</b>								

I. D. O. T.													
TRAFFIC SIGNAL INSTALLATION													
ELECTRICAL SERVICE REQUIREMENTS													
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL								
		INCAND.	LED		WATTAGE								
SIGNAL (RED)	10	1 35	17	0.50	85								
(YELLOW)	10	1 35	25	0.25	63								
( GREEN)	10	1 35	15	0.25	38								
ARROW		1 35	12	0.10									
PED. SIGNAL	0	90	25	1.00	0								
CONTROLLER	1	100	1 00	1.00	100								
ILLUM. SIGN		252	25	0.05									
VIDEO SYSTEM		150	-	1.00									
FLASHER LED													
				TOTAL =	286								

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239 COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

EXISTING INTERSECTION -AND SAMPLING (SYSTEM) DETECTOR

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

NO. 6-

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IL RTE. 176

C - 2 2 - C

**CABLE PLAN** 

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

- TRACER CABLE

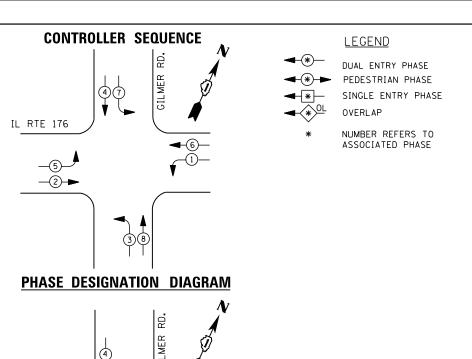
— EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR

INTERCONNECT TO GILMER RD.

TS# 6917 UNINC.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	CTATE OF ILLINOIS	IL ROUTE 176 AT HAWLEY STREET WEST	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06917_CAB_LAKE.d	g DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,112.	2012-039TS	LAKE 84 78
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS											
EMERGENCY VEHICLE PREEMPTOR	3	4									
MOVEMENT	-	<b> </b>									

I. D. O. T.													
TRAFFIC SIGNAL INSTALLATION													
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	19								
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 =	341								

ENERGY COSTS-

IL RTE 176

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
MODIFY EXISTING CONTROLLER CABINET
UNINTERRUPTABLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT EACH EACH EACH FACH FACH

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

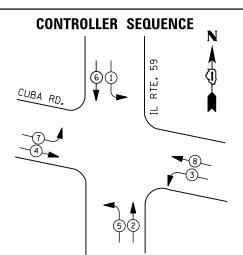
> TS# 7142 UNINC.

COUNTY TOTAL SHEET NO.

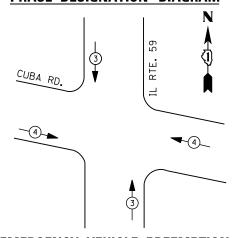
LAKE 84 79 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED IL ROUTE 176 AT GILMER ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE DW SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-003 Sheets SW Lake Co\07142_CAB_LAKE.dgh DRAWN JDH REVISED 2012-039TS **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED CONTRACT NO. 60T84 SCALE: N.T.S. SHEET NO. OF SHEETS STA. REVISED PLOT DATE = 8/23/2012 DATE

	EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR
NO. 6	NO. 6  R Y G H Y G H Y G H Y G H Y G H X H X G H X H X G H X H X H X H X H
IL RTE. 176	
EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	DETECTOR  LING (S)  DETECTOR
INTERCONNECT TO HAWLEY ST. (WEST)  TRACER CABLE	
`	EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR HAWLEY ST. (EAST)  TRACER CABLE  CABLE PLAN





## EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS											
EMERGENCY VEHICLE PREEMPTOR	3	4									
MOVEMENT	<b>↓</b> †	<del></del>									

TRAFFIC SIGNAL INSTALLATION													
ELECTRICAL SERVICE REQUIREMENTS													
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL								
		INCAND.	LED		WATTAGE								
SIGNAL (RED)	14	1 35	17	0.50	119								
(YELLOW)	14	1 35	25	0.25	88								
( GREEN)	14	1 35	15	0.25	53								
ARROW	16	1 35	12	0.10	19								
PED. SIGNAL	0	90	25	1.00	0								
CONTROLLER	1	100	1 00	1.00	100								
ILLUM. SIGN		252	25	0.05									
VIDEO SYSTEM		150	-	1.00									

I. D. O. T.

ENERGY COSTS-

FLASHER LED

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

TOTAL =

379

ENERGY SUPPLY -

CONTACT DAVE SCHACHT
PHONE 630-437-2129

COMMONWEALTH EDISON

<u>LEGEND</u>

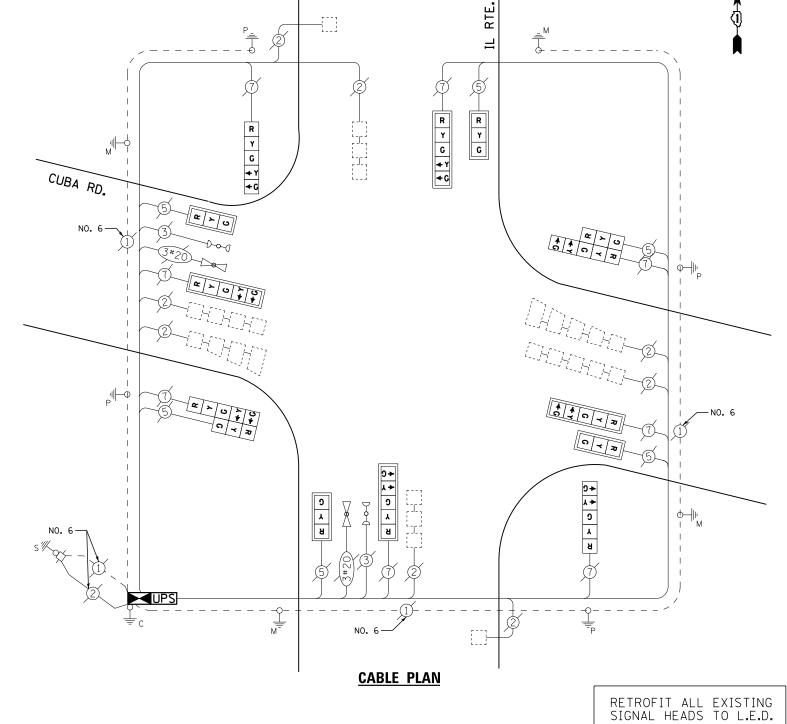
DUAL ENTRY PHASE

→ PEDESTRIAN PHASE

→ SINGLE ENTRY PHASE

OL OVERLAP

* NUMBER REFERS TO ASSOCIATED PHASE



#### **SCHEDULE OF QUANTITIES**

QUANT	<u>ITY</u> <u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
8	EACH	INDUCTIVE LOOP DETECTOR
<b>*</b> 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
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
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
*	100% COST TO	AKE COUNTY

#### 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# 21350 UNINC.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	27477 25 11111012	IL ROUTE 59 AT CUBA ROAD				F.A. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.	
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\21350_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		M [		2012-039TS	LAKE	84	80		
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE						CONTRACT	NO. f	OT84	
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF	SHEETS ST	A. TO STA.	•		ILLINOIS FED. A			





#### **CONTROLLER SEQUENCE**

**-**2**→** 



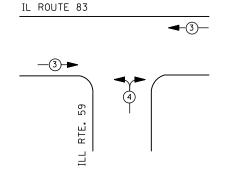
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED LETTER PHASE

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS				
EMERGENCY VEHICLE 3 4						
MOVEMENT	<b></b>	<b>*</b>				

ENERGY COSTS-

ENERGY SUPPLY -

	I. D. O. T.								
	TRAFFIC SIGNAL INSTALLATION								
	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	6	1 35	12	0.10	7				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	1	150	-	1.00	150				
FLASHER LED									
				TOTAL =	479				

BILLED TO: VILLAGE OF VERNON HILLS

847-816-5239

CONTACT TERRI BLECK

PHONE

290 EVERGREEN DRIVE VERNON HILLS, IL 60061

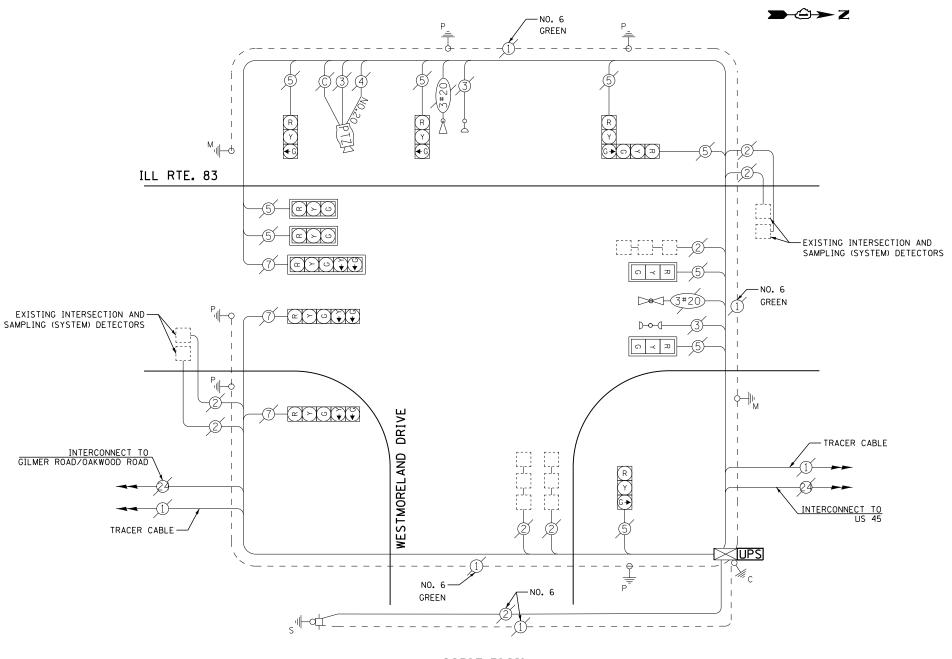
COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

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

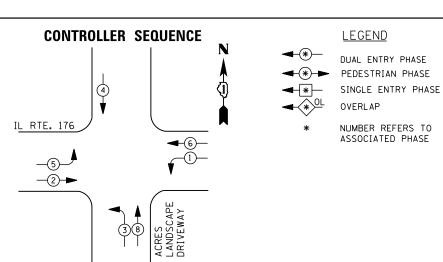
#### TS# 6992 VERNON HILLS

											. •
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 83 AT WESTMORELAND DRIVE	F.A.	SECTION	COUNTY	TOTAL S	HEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06992_CAB_LAKE.d	g∩DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,,,,,,	2012-039TS	LAKE	84	81
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012 00510	CONTRACT	T NO. 60	T84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	$\neg$	ILL INOIS FEE	D. AID PROJECT		



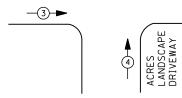
#### **CABLE PLAN**





# IL RTE. 176

PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS			
EMERGENCY VEHICLE 3 4					
MOVEMENT	<b>←</b>	<b>1</b>			

	TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	NO. LAMPS WATTAGE		% 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	12	1 35	12	0.10	14					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	336					

I. D. O. T.

ENERGY COSTS-

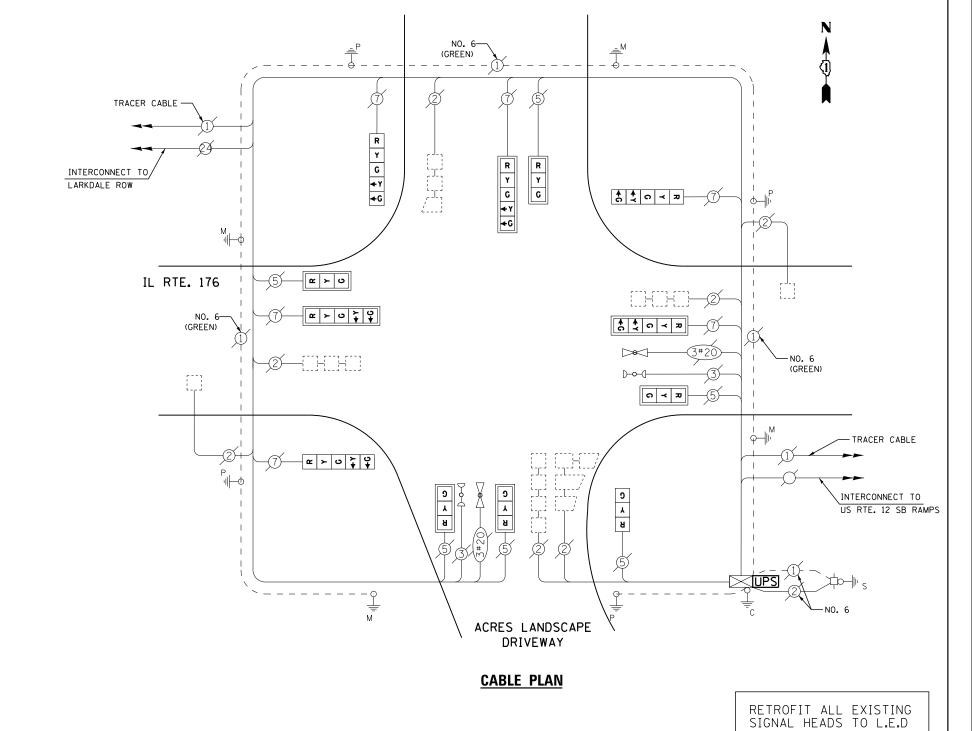
BILLED TO: VILLAGE OF WAUCONDA

101 N. MAIN STREET WAUCONDA, IL 60084

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE <u>847-816-5239</u>

COMMONWEALTH EDISON



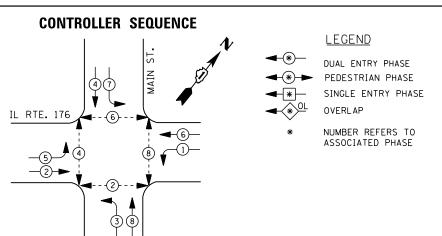
#### SCHEDULE OF QUANTITIES

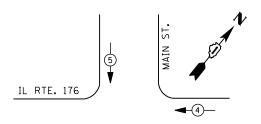
<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM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

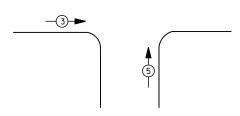
TS# 6517 WAUCONDA

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 176 AT WAUC	ONDA CROSSING	F.A. RTF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-003 Sheets SW Lake Co\06517_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN			2012-039TS	LAKE	84	82
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PR	REEMPTION SEQUENCE			CONTRAC	T NO. 6	OT84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.		ILLINOIS FED.	AID PROJECT		









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR								
MOVEMENT	<b>A</b>	+	<b>↓</b> †					

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
	<b>ELECTRI CAL</b>	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	19				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	150	1.00					
FLASHER LED									
				TOTAL =	541				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON SCHEDULE OF QUANTITIES

EACH EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

<u>QUANTITY</u> <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET EACH

> TS# 7150 WAUCONDA

- COMMUNICATION ANTENNA

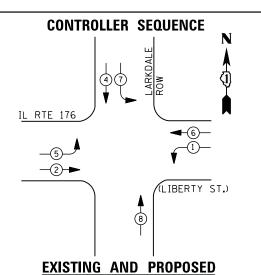
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 176 AT OLD RAND ROAD	F.A. RTF	SECTION	COUNTY TOTAL SHE	IEET
N:\Projects3\12004\DesignCAD\Sheet Files	s 12-003 Sheets SW Lake Co\07150_CAB_LAKE.d	g DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,,,,,,	2012-039TS	LAKE 84 8	83
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T	84
	PLOT DATE = 8/23/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILL INOIS FF'	FD. AID PROJECT	_

IL RTE. 176

**CABLE PLAN** 

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





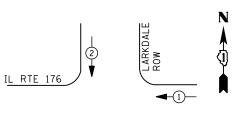
#### LEGEND

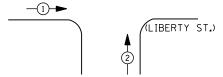
DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

EXISTING FIBER OPTIC SPLICE BOX, POWER SUPPLIES, PTZ SURGE PROTECTORS, ALL NECESSARY WIRING/CABLES AND ANY ADDITIONAL LAKE COUNTY EQUIPMENT SHALL BE RELOCATED TO NEW CONTROLLER CABINET AS NECESSARY, OR AS DIRECTED BY THE ENGINEER IN ORDER TO MAINTAIN THE EXISTING INTERCONNECT SYSTEM. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.





**EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE** 

EMERGENCY VE	HICLE PREE	EMPTORS				
EMERGENCY VEHICLE 1 2						
MOVEMENT	<b>—</b>	<b> </b>				

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

	ELECTRICAL	SERVICE	REGULK	EMENIS	
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	12	1 35	12	0.10	14
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 =	336

ENERGY COSTS-

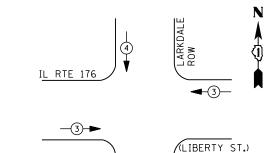
BILLED TO: VILLAGE OF WAUCONDA 101 N. MAIN STREET

WAUCONDA, IL 60084

ENERGY SUPPLY -CONTACT TERRI BLECK

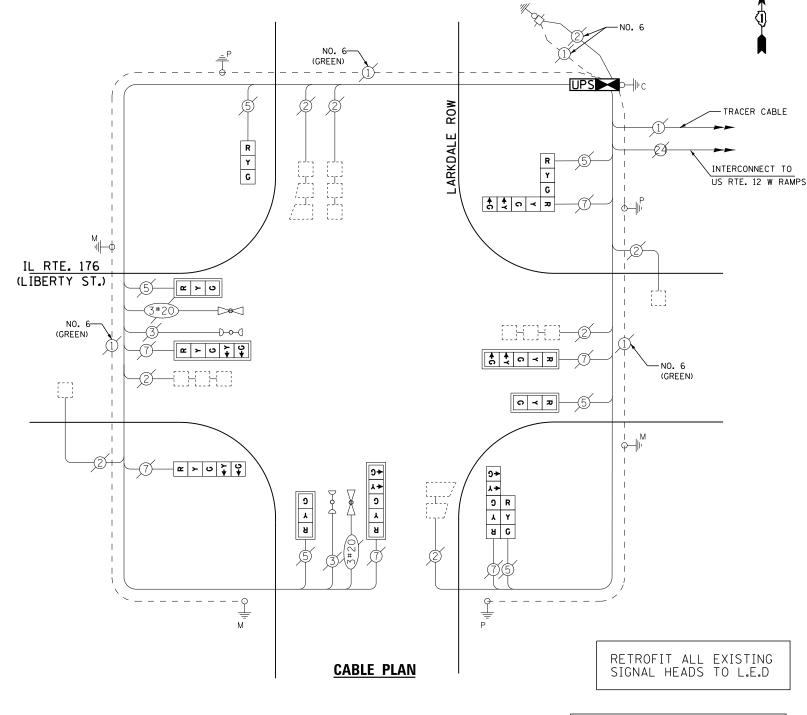
PHONE 847-816-5239

COMMONWEALTH EDISON



#### **PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	1	<b> </b>						



#### **SCHEDULE OF QUANTITIES**

* 100% COST TO WAUCONDA

<u>QUANT I T Y</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
7	EACH	INDUCTIVE LOOP DETECTOR
<b>*</b> 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

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

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

1 EACH CONTROLLER AND CABINET (COMPLETE)

TS# 7152 WAUCONDA

			1		
FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED -
N:\Projects3\12004\DesignCAD\Sheet Files	\12-003 Sheets SW Lake Co\07152_CAB_LAKE.dg	DRAWN	-	JDH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED	-	KMM	REVISED -
	PLOT DATE = 8/23/2012	DATE	-		REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE: N.T.S.

COUNTY TOTAL SHEET NO.

LAKE 84 84 IL ROUTE 176 AT LARKDALE ROW SECTION COUNTY SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 2012-039TS CONTRACT NO. 60T84 SHEET NO. OF SHEETS STA.