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 \circ

06-15-12 LETTING ITEM 142

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

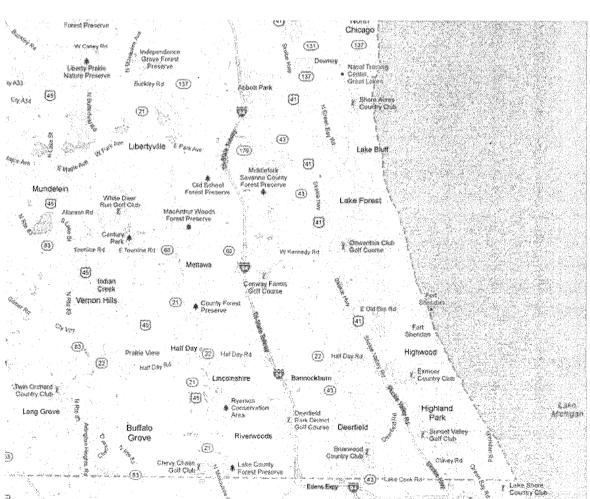
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN LAKE COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION SECTION 2012-003 I LAKE COUNTY

C-91-349-12



LAKE COUNTY LOCATION MAP SEE SHEET NO. 3 D-91-349-12

LAKE



WILL
062-06095 Sign
REGISTERED
PROFESSIONAL
OF
Date

Signed DANIEL WIKTORZAK, P.E. IL. Lic. No. 062-060950

Expires 11-30-2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED

MANN 30 20 12

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

MANN 11 20 12

ENGINEER OF DESIGN AND ENVIRONMENT

20 12

DIVIDING TO THE ENGINEER

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STANDARDS

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

701701–08 URBAN LANE CLOSURE MULTILANE INTERSECTION

701901–02 TRAFFIC CONTROL DEVICES

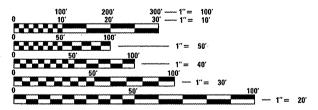
720006-03 SIGN PANEL ERECTION DETAILS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

62001-01 UNITERRUPTABLE POWER SUPPLY (UPS

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

PROJECT ENGINEER: SUDUD MAHMOUD PROJECT MANAGER: DARYLE DREW

CONTRACT NO. 60T41

11. ENDIRECEMBY CURVULIANT) 8619 W. Bryn Hawr Ave., Suite 602 Chirago, II. 60631-3551 773-283-2600 Fax: 773-283-2602 WAYN, RWAR, RWAR, REPRESENCE TO THE CONTROL OF THE

INDEX OF SHEETS

26

1	COVER SHEET	56 220	D50 IL 21 MILWAUKEE AVE AT MARKET PLACE
2	INDEX OF SHEETS	57 220	D52 IL 21 MILWAUKEE AVE AT CONTINENTAL DR
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		61 696	60 IL 83 AT ARLINGTON HEIGHTS RD

TRAFFIC SIGNAL PLANS:

			63 6975 IL 83 AT BUFFALO GROVE RD
16	935	IL 137 AT I 94 WEST RAMP	64 6985 IL 83 AT BUFFALO GROVE SC/HIGHPOINT
17	936	IL 137 AT 194 EAST RAMP	65 9885 IL 83 MCHENRY RD AT PAULINE AVE/TOW

OWN PLACE PK IL 176 AT 194 TRISTATE TLWY WEST RAMP IL 22 AT BUFFALO GROVE RD

IL 176 AT 194 TRISTATE TLWY E RAMP/LAMB

IL 22 AT BUFFALO GROVE FIRE HOUSE 930 19 2367 IL 43 WAUKEGAN RD AT OAKMONT AVE US 45-IL 21 MILWAUKEE AVE AT RIVERWALK/COLUMBUS 68 20995

IL 22 AT ARBORETUM WAY 12920 IL 43 WAUKEGAN RD AT KATES RD 69 21215

IL 83 AT DEERFIELD PKWY/CHECKER

12915 IL 43 WAUKEGAN RD AT MCDONALDS/CADWELLS CR 70 21965 IL 22 AT STEVENSON HS ENT/PALAZZO

6543 IL 22 AT US 41 NORTH RAMP 71 6715 IL 21 MILWAUKEE AVE AT IL 176

11875 US 41 AT CLAVEY RD/OLD SKOKIE RD IL 21 MILWAUKEE AVE AT ROCKLAND RD 72 12120 11876 SKOKIE VALLEY RD AT CLAVEY RD IL 21 MILWAUKEE AVE AT VALLEY PARK DRIVE 73 14005

11877 US 41 AT SKOKIE VALLEY RD IL 21 MILWAUKEE AVE AT CONDELL 74 14007

6595 US 45-IL 21 MILWAUKEE AVE AT US 45 OLD HALF DAY RD IL 21 MILWAUKEE AVE AT GOLF RD LIBERTYVILLE 27 75 14017

6630 US 45-IL 21 MILWAUKEE AVE AT APTAKISIC RD IL 21 MILWAUKEE AVE AT RED TOP DR GREENTREE BLVD 76 14015

IL 43 WAUKEGAN ND AT MODES.

IL 22 AT US 41 NORTH RAMP

US 41 AT CLAVEY RD/OLD SKOKIE RD

SKOKIE VALLEY RD AT CLAVEY RD

US 41 AT SKOKIE VALLEY RD

US 45-IL 21 MILWAUKEE AVE AT US 45 OLD HALF DAY RD

US 45-IL 21 MILWAUKEE AVE AT APTAKISIC RD

IL 22 AT ELMOXFORD DRIVE

US 45-IL 21 MILWAUKEE AVE AT KNIGHTSBRIDGE PKWY

US 45-IL 21 MILWAUKEE AVE AT MARRIOTT LINCOLNSHIRE 11605 IL 22 AT ELM/OXFORD DRIVE 77 13985 IL 21 MILWAUKEE AVE AT WINCHESTER 29 6665 78 13990 IL 21 MILWAUKEE AVE AT COOK AV.

6695 US 45-IL 21 MILWAUKEE AVE AT MARRIOTT LINCOLNSHIRE IL 21 MILWAUKEE AVE AT CHURCH ST. 79 13995 31

6760 IL 22 AT PORT CLINTON/OLD HALF DAY 80 21490 IL 21 MILWAUKEE AVE AT LAKE ST.

6770 IL 22 AT RIVERWOODS/BRADLEY 33 81 7094 IL 137 AT BUTTERFIELD SQUARE 6780 IL 22 AT BARCLAY/OLD HLF DAY 82 14020 IL 176 AT BUTTERFIELD RD

21405 US 45-IL 21 MILWAUKEE AVE AT TOWER PKWY 35 83 14025 IL 176 AT GARFIELD AVE/BRAINERD

6640 US 45 AT BUTTERFIELD RD 14030 IL 176 AT DAWES ST 6641 US 45 AT OAKWOOD RD 37 14035 IL 176 AT 4TH AVE

6655 US 45 AT DEERPATH DR 20375 IL 176 AT BRADLEY DR 38–39

US 45 AT COMMUTER LOVRANNEY 87 6675 US 45 AT 137 (PETERSON RD.)

6658 US 45 AT BUFFALO GROVE RD/FAIRWAY US 45 AT IL 137 (BUCKLEY) 88 6675

6700 IL 21 MILWAUKEE AVE AT IL 60 IL 21 (MILWAUKEE) AT ALDER PARK (N. FIRE STATION) 21660 6720 IL 21 MILWAUKEE AVE AT HAWTHORN CTR DR #6

IL 43 WAUKEGAN RD AT IL 60 90 6795 6725 IL 21 MILWAUKEE AVE AT HAWTHORN CTR DR #7 IL 43 WAUKEGAN RD AT WESTMORELAND DR (MIDDLE FORK) 91 6806

6870 IL 60 AT DEERPATH RD 92 10665 IL 43 WAUKEGAN AT DEER PATH RD

6875 IL 60 AT LAKEVIEW PKWY/HAWTHORN CTR #1 93-94 10670 IL 43 WAUKEGAN RD AT EVERETT RD 6880 IL 60 AT HAWTHORN CENTER DRIVE #3 95 10675 IL 43 WAUKEGAN RD AT WESTLEIGH RD

IL 43 WAUKEGAN RD AT GLOUCHESTER CROSSING 6885 IL 60 AT HAWTHORN CENTER DRIVE #4 96 10676

6890 IL 60 AT HAWTHORN CENTER DRIVE #5 IL 60 AT LAKE FOREST ACADEMY 97 11708

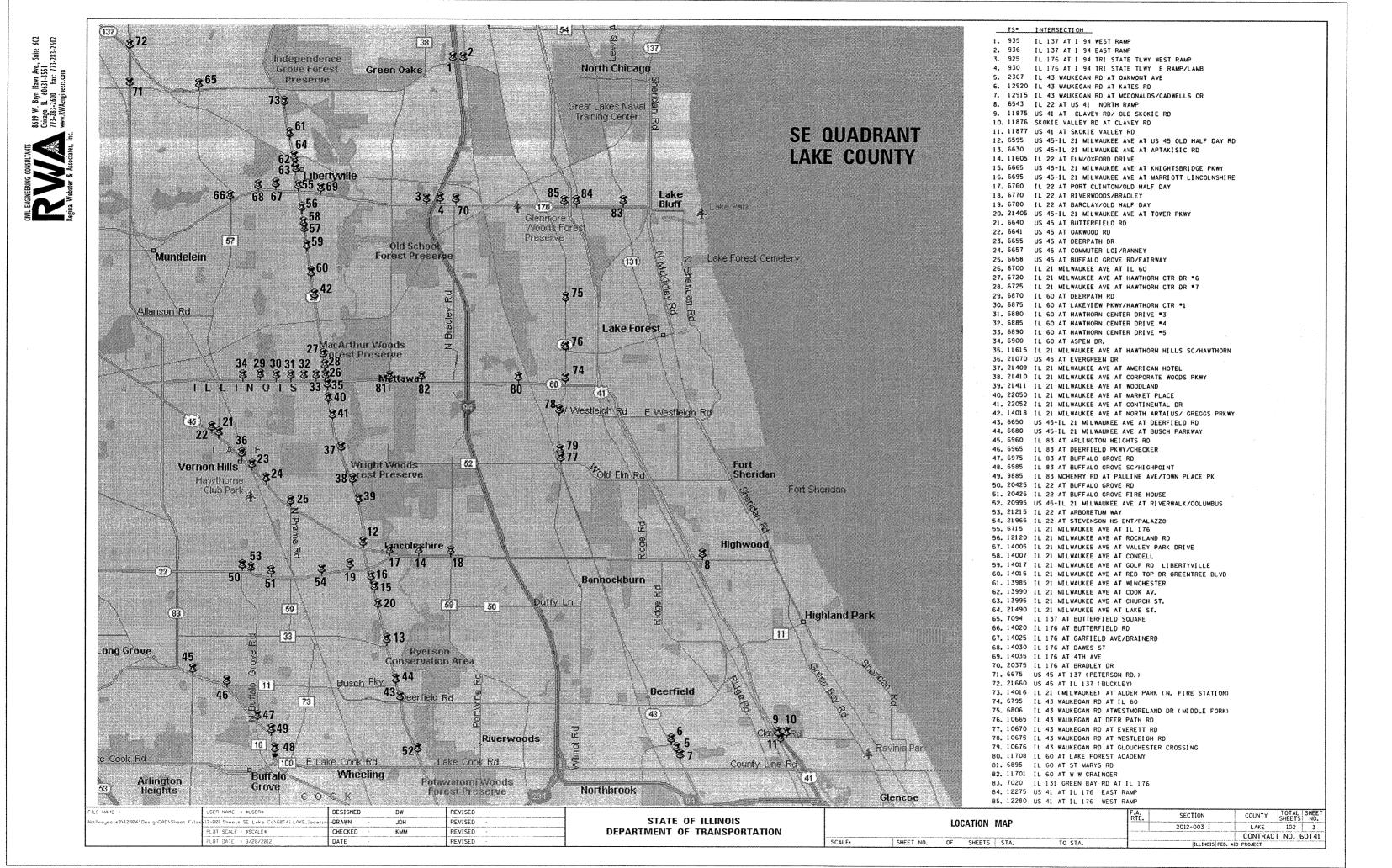
6900 IL 60 AT ASPEN DR. 98 6895 IL 60 AT ST MARYS RD 50 11615 IL 21 MILWAUKEE AVE AT HAWTHORN HILLS SCHAWTHORN 99 11701 IL 60 AT W W GRAINGER

21070 US 45 AT EVERGREEN DR 100 7020 IL 131 GREEN BAY RD AT IL 176

21409 IL 21 MILWAUKEE AVE AT AMERICAN HOTEL 101 12275 US 41 AT IL 176 EAST RAMP

21410 IL 21 MILWAUKEE AVE AT CORPORATE WOODS PKWY 102 12280 US 41 AT IL 176 WEST RAMP 21411 IL 21 MILWAUKEE AVE AT WOODLAND

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OLUMN IUMBER	TS#	INTERSECTION	STATE	LAKE COUNTY	GREEN OAKS	DEER- FIELD	HIGHLAND PARK	LINCOLN- SHIRE	VERNON HILLS	BUFFALO GROVE	LIBERTY- VILLE	LAKE FOREST	METTAWA	LAKE BLUFF	HAWTHORN L.P.	MID. AM	HAWTHORN V. H. LLC	INLAND
1	935	IL 137 AT I 94 WEST RAMP	100%															
1	936	IL 137 AT I 94 EAST RAMP	100%													***************************************		
1	925	IL 176 AT I 94 TRI STATE TLWY WEST RAMP	100%															i
1 .	930	IL 176 AT I 94 TRI STATE TLWY E RAMP/LAMB	100%													······································		
2	2367	IL 43 WAUKEGAN RD AT OAKMONT AVE	95%			√ 5%										An Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti-		
3	12920	IL 43 WAUKEGAN RD AT KATES RD	96. 7%		***************************************	3. 3%		***************************************								***************************************		
2	12915	IL 43 WAUKEGAN RD AT MCDONALDS/CADWELLS CR	95%			√ 5%												
1	6543	IL 22 AT US 41 NORTH RAMP	100%															
1	11875	US 41 AT CLAVEY RD/ OLD SKOKIE RD	100%															
4	11876	SKOKIE VALLEY RD AT CLAVEY RD	95%				5%											<u> </u>
1	11877	US 41 AT SKOKIE VALLEY RD	100%					***************************************										
1	6595	US 45-IL 21 MILWAUKEE AVE AT US 45 OLD HALF DAY RD	100%															
7	6630	US 45-IL 21 MILWAUKEE AVE AT APTAKISIC RD	96. 7%	3. 3% /														
6	11605	IL 22 AT ELM/OXFORD DRIVE	95%					5%. /										
6	6665	US 45-IL 21 MILWAUKEE AVE AT KNIGHTSBRIDGE PKWY	95%					5%		***************************************								
6	6695	US 45-IL 21 MILWAUKEE AVE AT MARRIOTT LINCOLNSHIRE /	95%					5%	***************************************									
1	6760	IL 22 AT PORT CLINTON/OLD HALF DAY	100%															
8	6770	IL 22 AT RIVERWOODS/BRADLEY	95%	5% /				· · · · · · · · · · · · · · · · · · ·								***************************************		
5	6780	IL 22 AT BARCLAY/OLD HLF DAY	97.5%	J.,				2. 5%								······		
6	21405	US 45-IL 21 MILWAUKEE AVE AT TOWER PKWY	95%					5%		·								
7	6640	US 45 AT BUTTERFIELD RD	96. 7%	3. 3%				57.										
9	6641	US 45 AT OAKWOOD RD	96. 7%	3. 3/.					3.3% ~									
9	6655	US 45 AT DEERPATH DR	96. 7%						3. 3%									
10	6657	US 45 AT COMMUTER LOI/RANNEY	95%						5% /	r		***************************************						
11	6658	US 45 AT BUFFALO GROVE RD/FAIRWAY	95%	2.5%					2.5%									
1	6700	IL 21 MILWAUKEE AVE AT IL 60	100%	2. 3/.					2. 3/. 0									
13	6720	IL 21 MILWAUKEE AVE AT HAWTHORN CTR DR #6	95%															
13	6725	IL 21 MILWAUKEE AVE AT HAWTHORN CTR DR #7	95%					***************************************							5%	·····]
9	6870	IL 60 AT DEERPATH RD	96. 7%			***************************************		······································	3. 3%	,					5% 🗸	· · · · · · · · · · · · · · · · · · ·		
19	6875	IL 60 AT LAKEVIEW PKWY/HAWTHORN CTR *1	95%					***************************************	2.5%							***************************************		
14	6880	IL 60 AT HAWTHORN CENTER DRIVE #3	95%															2.5%
15	6885	IL 60 AT HAWTHORN CENTER DRIVE #4	95%						2.5%						1. 25%	1. 25%		
16	6890	IL 60 AT HAWTHORN CENTER DRIVE #5	95%			***************			***************************************						2.5%	2.5%	0 54 5	
	6900	IL 60 AT ASPEN DR.	95%					······································	5% 🗸						2.5%		2.5%	
10								***************************************	37.									
17	11615		95%						7 71	,		***************************************					2.5%	2.5% ~
9	21070		96. 7%						3. 3%									
10	21409		95%					······································	5%		w							
10	21410		95%						5%.									
10	21411	•	95%				•••••		5% ~									
18	22050		95%								·····					5%		
10	22052		95%					·····	5%									***************************************
12	14018	IL 21 MILWAUKEE AVE AT NORTH ARTAIUS/ GREGGS PRKWY	95%						2.5%		2.5%							
8	6650	US 45-IL 21 MILWAUKEE AVE AT DEERFIELD RD	95%	5% 🗸												***************************************		
20	6680	US 45-IL 21 MILWAUKEE AVE AT BUSCH PARKWAY	95%					***************************************		5%	***************************************		***************************************			······		
21	6960	IL 83 AT ARLINGTON HEIGHTS RD	95%	2.5%~						2.5%								
21	6965	IL 83 AT DEERFIELD PKWY/CHECKER	95%	2.5%.						2.5%								
8	6975	IL 83 AT BUFFALO GROVE RD	95%	5%. /	***************************************		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									~~~		
20	6985	IL 83 AT BUFFALO GROVE SC/HIGHPOINT	95%							5%								

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COLUMN NUMBER	TS#	INTERSECTION	STATE		GREEN OAKS	DEER- FIELD	HIGHLAND PARK	LINCOLN- SHIRE	VERNON HILLS	BUFFALO GROVE	LIBERTY- VILLE	LAKE FOREST	METTAWA	LAKE BLUFF	HAWTHORN L.P.	MID. AM	HAWTHORN V. H. LLC	INLAND
20	9885	IL 83 MCHENRY RD AT PAULINE AVE/TOWN PLACE PK	95%							5%			***************************************			***************************************		
8	20425	IL 22 AT BUFFALO GROVE RD	95%	5%. 🗸												~~~		
20	20426	IL 22 AT BUFFALO GROVE FIRE HOUSE	95%							5% ~	·····					***************************************		***************************************
20	20995	US 45-IL 21 MILWAUKEE AVE AT RIVERWALK/COLUMBUS 🗸	95%							5%	***************************************							~~~
20	21215	IL 22 AT ARBORETUM WAY	95%						***************************************	5%						* - * * * * * * * * * * * * * * * * * *		***************************************
20	21965	IL 22 AT STEVENSON HS ENT/PALAZZO	95%							5% /	***************************************							
1	6715	IL 21 MILWAUKEE AVE AT IL 176	100%				~~~~		····									***************************************
23	12120	IL 21 MILWAUKEE AVE AT ROCKLAND RD	95%								5%					***************************************		
22	14005	IL 21 MILWAUKEE AVE AT VALLEY PARK DRIVE	96. 7%				·····		***************************************		3. 3%							
23	14007	IL 21 MILWAUKEE AVE AT CONDELL	95%								5%							
23	14017	IL 21 MILWAUKEE AVE AT GOLF RD LIBERTYVILLE	95%				***************************************			~·····································	5%			 		······································		
23	14015	IL 21 MILWAUKEE AVE AT RED TOP DR GREENTREE BLVD 🔑	95%								5% 🗸							
25	13985	IL 21 MILWAUKEE AVE AT WINCHESTER	95%	2.5%~					***************************************		2.5%							**************************************
23	13990	IL 21 MILWAUKEE AVE AT COOK AV.	95%	<u> </u>			***************************************				5%							
23	13995	IL 21 MILWAUKEE AVE AT CHURCH ST.	95%								5% -							
22	21490	IL 21 MILWAUKEE AVE AT LAKE ST.	96. 7%								3. 3%.							
23	7094	IL 137 AT BUTTERFIELD SQUARE	95%				**************************************				5% ~							
8	14020	IL 176 AT BUTTERFIELD RD	95%	5%														
23	14025	IL 176 AT GARFIELD AVE/BRAINERD	95%								5% ~							
23	14030	IL 176 AT DAWES ST	95%				***************************************				5% v		***************************************					
23	14035	IL 176 AT 4TH AVE	95%								5%						1.	
35	20375	IL 176 AT BRADLEY DR	95%		5% /						· ·							
24	6675	US 45 AT 137 (PETERSON RD.)	97.5%	2.5%														
1	21660	US 45 AT IL 137 (BUCKLEY)	100%							····								
23	14016	IL 21 (MILWAUKEE) AT ALDER PARK (N. FIRE STATION) 🗸	95%				***************************************				5%							
1	6795	IL 43 WAUKEGAN RD AT IL 60	100%															
26	6806	IL 43 WAUKEGAN RD AT WESTMORELAND DR (MIDDLE FORK) 🗸	95%	 								5%	***************************************	·····		***************************************		
26	10665	IL 43 WAUKEGAN AT DEER PATH RD	95%								***************************************	5%						
26	10670		95%									5%				***************************************		
		IL 43 WAUKEGAN RD AT WESTLEIGH RD	95%	<u> </u>								5%		***************************************		· · · · · · · · · · · · · · · · · · ·		······································
26	10676		95%	 								5%		~~				
26	11708		95%	 							***************************************	5%					-	***************************************
8	6895	IL 60 AT ST MARYS RD	95%	5%														
27	11701	IL 60 AT W W GRAINGER	95%										5%.	***************************************				***************************************
28	7020	IL 131 GREEN BAY RD AT IL 176	97.5%	†										2.5% ~	×			
1	12275	US 41 AT IL 176 EAST RAMP	100%															
1	12280	US 41 AT IL 176 WEST RAMP	100%															
29	12915	IL 43 WAUKEGAN RD AT MCDONALDS/CADWELLS CR (EVP)				100% 🗸												
30	11875	US 41 AT CLAVEY RD/ OLD SKOKIE RD (EVP)					100%											***************************************
30	11876	SKOKIE VALLEY RD AT CLAVEY RD (EVP)					100%				***************************************					***************************************	 	······································
31	6630	US 45-IL 21 MILWAUKEE AVE AT APTAKISIC RD (EVP)						100%						***************************************				
32	6641	US 45 AT OAKWOOD RD (EVP)							100%	<i>*</i>	***************************************			~~~~				·
32	11615	IL 21 MILWAUKEE AVE AT HAWTHORN HILLS SC/HAWTHORN (EVP)							100%									
32	21410	IL 21 MILWAUKEE AVE AT CORPORATE WOODS PKWY (EVP)							100% 🛩					e de la companya della companya de la companya della companya dell		***************************************		
32	22050	IL 21 MILWAUKEE AVE AT MARKET PLACE (EVP)							100%									
	6960	IL 83 AT ARLINGTON HEIGHTS RD (EVP)		T			***************************************			100%	·····						 	
34		IL 21 MILWAUKEE AVE AT WINCHESTER (EVP)					***************************************				100%							
34		IL 176 AT DAWES ST (EVP)		†				~~~~			100%					***************************************		*******************************
34		IL 176 AT 4TH AVE (EVP)							***************************************		100%					***************************************		***************************************
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 TRAFFIC SIGNAL CODE TOTAL ITEM UNIT 0021 NO. QUANTITY URBAN 67000400 ENGINEER'S FIELD OFFICE. TYPE A CAL MO 6 67100100 MOBILIZATION L SUM 1 70102635 TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 L SUM 1 81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. FOOT 20 15 2 1 1 1 4 2 6 4 6 1 1 2 1 1 1 1 1 7 2 2 11 1 1 6 1 1 85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH 86000105 MASTER CONTROLLER (SPECIAL) EACH 86400100 TRANSCEIVER - FIBER OPTIC EACH 87502440 TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT. EACH 4 87502480 TRAFFIC SIGNAL POST. GALVANIZED STEEL 14 FT. EACH. 16 2 2 87502500 TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. EACH 37 87502520 TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT. EACH 5 87900200 DRILL EXISTING HANDHOLE EACH 2 6 3 EACH 11 88030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED 42 EACH 2 3 88030050 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED 23 88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED EACH 19

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1160 STATE	88102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	7						2		1						2	2	2								+
1504. PRODUCT 1.00						-		*****															- minor annual principal de est an-					+
11EM	88102747	PEDESTRIAN SIGNAL HEAD. LED. 2-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	38	4	1				6	5	1					1 4	4	1	6		5						1
1TEM OL 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	3																		3						1
1TEM OLA TEM O	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	159	22	2 2	2 4	4 4	4	18 4	14	7			2	2	2 1	0 12	2 4	30		6	6					+
THE NO. 11TEM 11TE	88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4						2												2					_	
SECONAL MEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED SACKET MOUNTED	88060130	CUMBINATION SIGNAL HEAD, LED, Z-FACE, 1-3 SECTION OPTICALLY PROGRAMED, 1-5 SECTION, BRACKET MOUNTED	EACH																									1
NO. STONAL HEAD, LED, 1-FACE, S-SECTION, BRACKET MOUNTED EACH 19 2 2 4 1 1 1 1 1 1 1 1 1	00000:77	COMPINATION CIONAL HEAD LED 2 FACE 1.7 CECTION ORTHORIZY BROCEAUSD 1.5 CECTION DRIVET HOUSE	EACH	2	2																							1
NO. STANDAY THEM STANDAY TO STAND	88055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1	1										-								-					+
1TEM	88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2 .	2																						-	1
NO. PARTEE NO. 1TEM 1NTEM 1NTE	88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3.	3											-							-				-	
NO. PARTEE NO. 1TEM 1NTEM 1NTE																											-	1
NO. SIGNAL HEAD. LED. 2-FACE. 3-SECTION, BRACKET MOUNTED EACH EA	88030310	SIGNAL HEAD, LED, 3-FACE, 3-SECTION. BRACKET MOUNTED	EACH	2		1		1																				
NO. OUNTITY TITEM	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	19	2	2		4		7										4								
NO. ITEM UNIT OUANTITY OUANTITY URBAN 88030110 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 51 5 2 8 9 1 6 8 8 8 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8				1		1					2			3		1								+
NO. ITEM UNIT QUANTITY OUANTITY URBAN URBAN	88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	13	3	1				1					-			2		2		4	_					
NO. ITEM UNIT QUANTITY OUANTITY URBAN	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	51	5	2		8		9 1					6			В		8		Annual (1800), 17 A 1800 (1800)	4	and the second second second	No. on a plant of the contract			
NO. ITEM UNIT OUANTITY 0021																BAN												
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CYNL ENGINEERING CONSULIANTS

8619 W. Byn Mawr Ave, Suite 602
Chicago, II. 60651-3551
773-283-2600 Fax. 773-283-2602
Regina Webster & Associates, Inc.

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89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4																									1		1		2	
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X8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	2																1			1	-						_				
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X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	14	2 2	2 1				1	2	1							3	1						1								
X8803050	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1																	1									_				
X8803051	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	3					1		1										1													~ =====
x8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	46	21	3			2		3	7								1			5			4								

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X8803086 S	IGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	12								12																	
x8803088 S	IGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	74	10	2	1 5			2 6	2	7					1	5	7	8	5		14						
X8803090 S	IGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	16	5	2													2	2	5							\Box	
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X8803110 S	IGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2	2		+						\exists			T										$\dagger \dagger$		$\ \cdot\ $	
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X8803280 S	IGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	4			-		_		-	4	_		ļ	-	_		-					ļļ.				-	
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X8803910 S	IGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	14	3		2			1 2		1					:	1	1	1			2						
X8808119 0	PTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	5	1														4										
X8880015 P	EDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	127	5	3				19	3	13	9				3	3 3	21	6 5	5 21	6	6 3		7				
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88060110 C	OMBINATION SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION OPTICALLY PROGRAMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1	1																					11			
8806040S C	OMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SEC OPTICALLY PROGRAMED, 1-5 SEC OPTICALLY PROGRAMED, 1-3 , BRACKET MOUNTED	EACH	1	1																								
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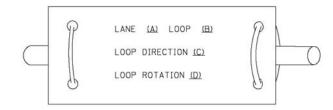
CONSTRUCTION CODE

SUMMARY OF QUANTITIES SECTION STATE OF ILLINOIS 12-001 Sheets SE Lake CoN60141 LAKE S005.dg DRAWN REVISED 2012-003 I (SHEET 6 OF 6) DEPARTMENT OF TRANSPORTATION PLOT SCALE : \$SCALE\$ CHECKED KMM REVISED PLOT DATE : 3/26/2012 DATE REVISED SCALE: SHEET NO. OF SHEETS STA. TO STA.

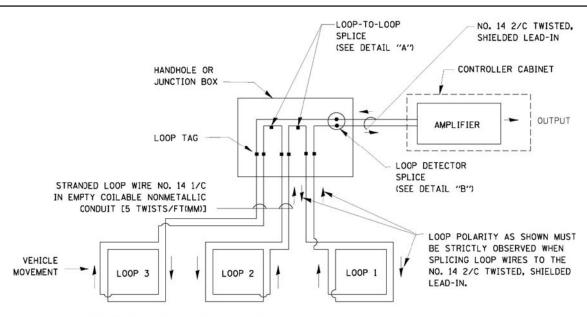
LOOP DETECTOR NOTES

- 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

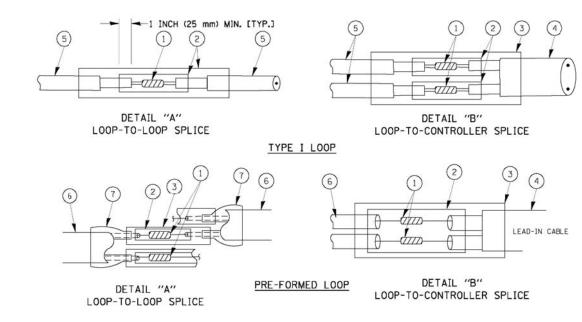


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

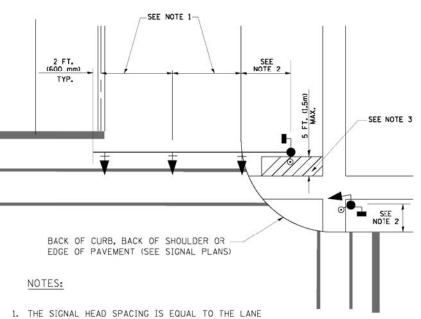
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STATI	E OF	: ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

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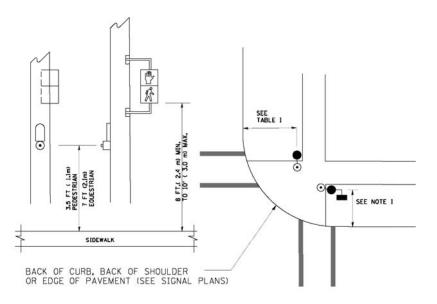
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



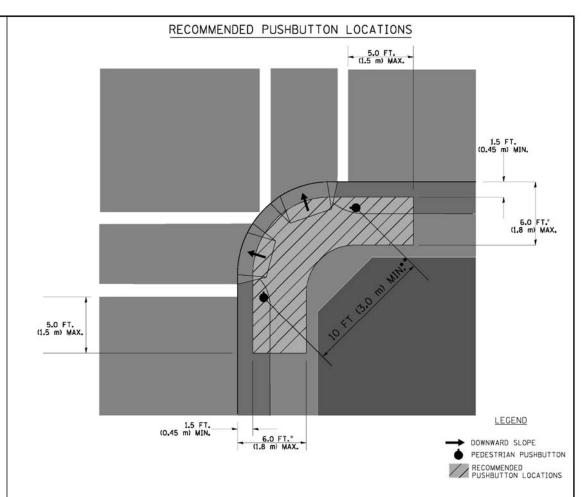
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF 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

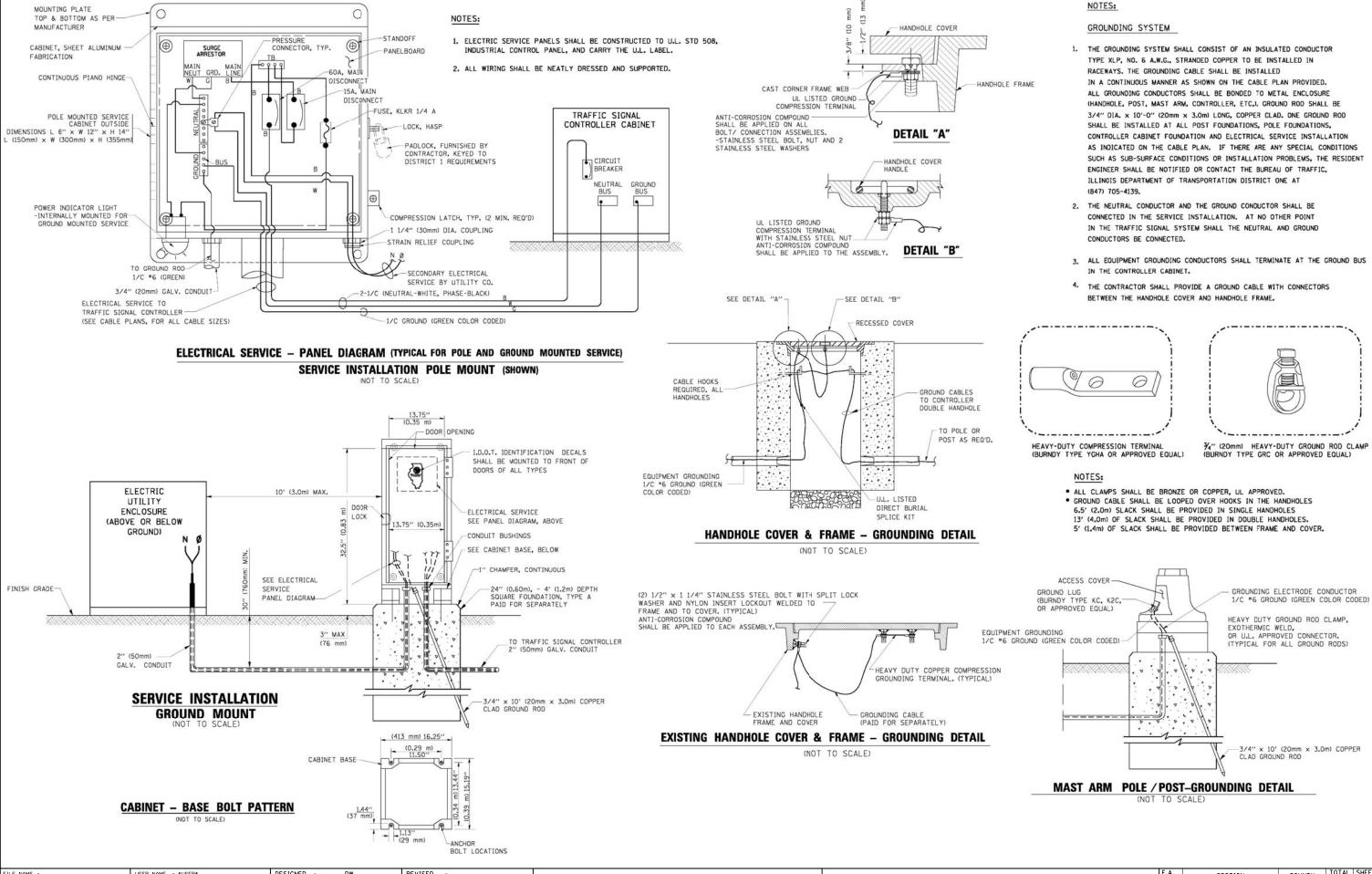
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				F.A. RTF.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	DISTRICT ONE – STANDARD TRAFFI	C SIGNAL DESIGN DETAILS			CONTRACT	NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 2 OF 6 SHEETS	STA. TO STA.		ILLINOIS FE	AID PROJECT	





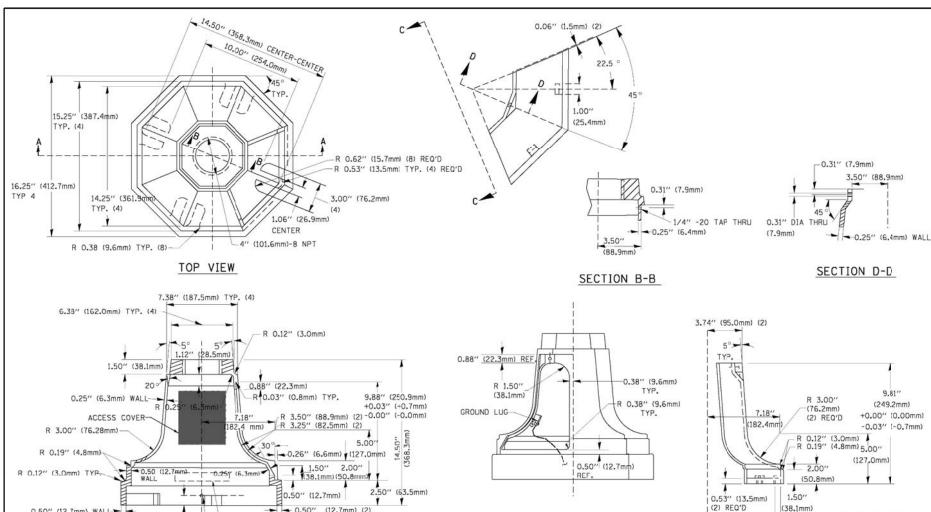
DESIGNED REVISED FILE NAME = USER NAME = \$USER\$ SECTION COUNTY STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files\12-001 Sheets SE Lake Co\60T4!IDOT DETAIL_3d@RAWN JDH REVISED 2012-003 I LAKE 102 12 DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS CHECKED KMM REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60T41 SHEET NO. 3 OF 6 SHEETS STA. PLOT DATE = 3/28/2012 DATE REVISED ILLINOIS FED. AID PROJECT

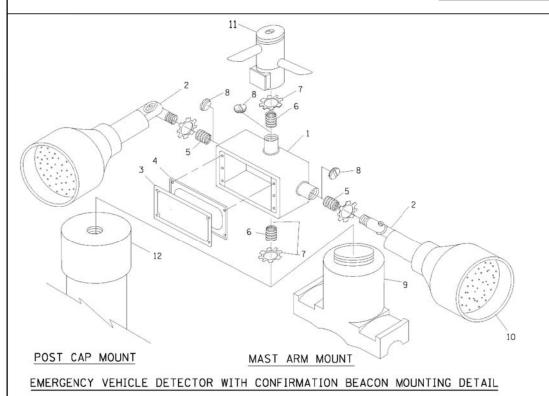


0.50" (12.7mm) WALL-

1.00" (25.4mm)

SECTION A-A





CAST IN 1/8" (3.0mm) HIGH CHARACTERS

NAME OF COUNTRY OF ORIGIN

-1/4"-20 TAP THRU

IDENTIFICATION OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) LAMP HOLDER AND COVER OUTLET BOX COVER RUBBER COVER GASKET REDUCING BUSHING 3/4"(19 mm) CLOSE NIPPLE 74 "(19 mm) LOCKNUT 74"(19 mm) LOCKNUT 74"(19 mm) HOLE PLUG SADDLE BRACKET - GALV. 6 WATT PAR 38 LED FLOOD LAMP DETECTOR UNIT POST CAP [18 FT. (5.4 m) POST MIN.]

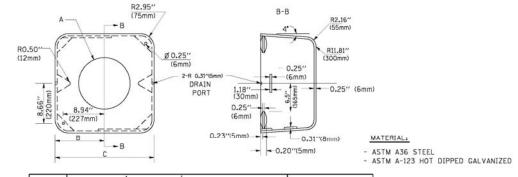
- 0.56" (14.2mm) (2) REQ'D

NOTES:

VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

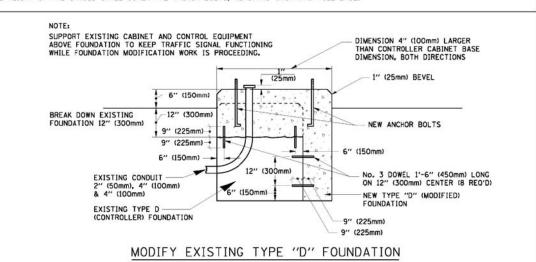
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS "2 AND "11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE 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.

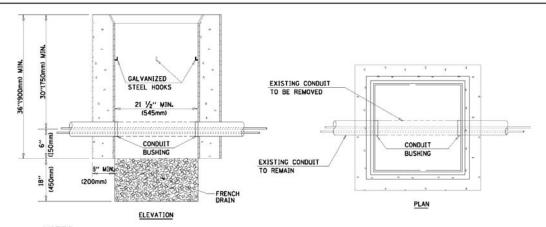


АВ		С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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



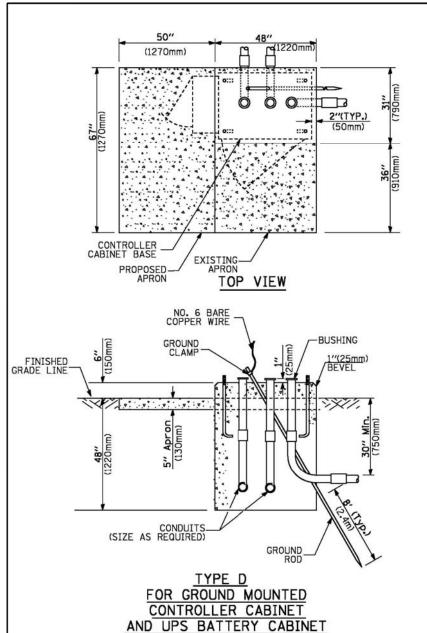


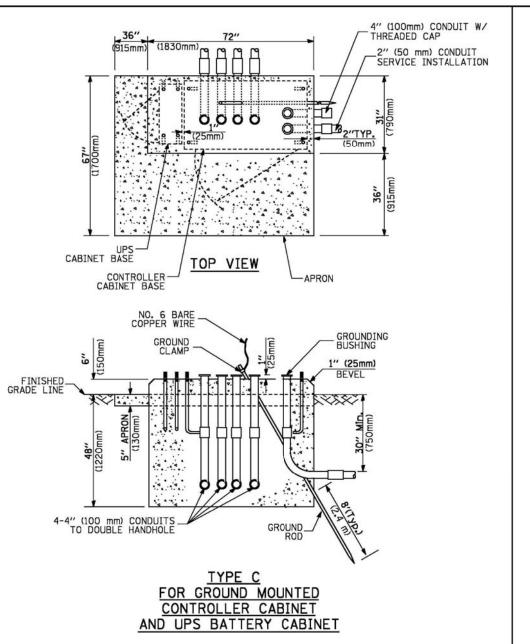
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

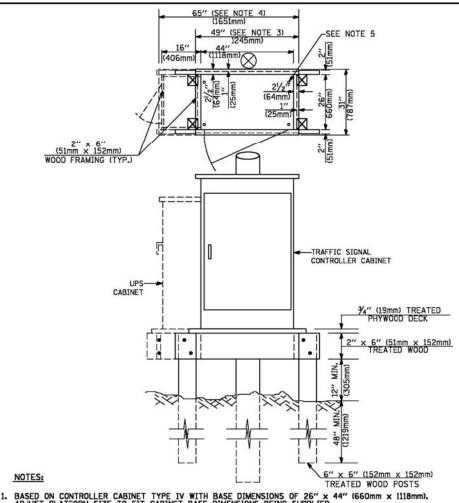
HANDHOLE TO INTERCEPT EXISTING CONDUIT

										100							
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	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T	.S.	SHEET NO). 4 OF	F 6 SHEETS	STA.	TO STA.		ILLINOIS FED.	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:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

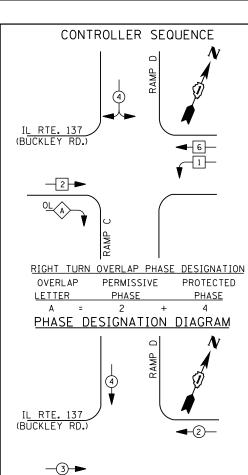
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	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 5 OF 6 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	

CIVIL ENGINEERING CONSULTANTS 86 19 W. Bryn Mawr Ave., Suite 602 Chicago, IL 60631-3551 773-283-2602 www.RWAengineers.com Regina Webster & Associates, Inc.

TRAFFIC SIGNAL LEGEND

<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED	ITEM		REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R	$\overline{\boxtimes}$			ICLE LIGHT DETECTOR		——		ELECTRIC CABLE IN CONDUIT, TRACER,			<u></u>
RAILROAD CONTROL CABINET				CONFIRMATION (Ro–d	o-()	⊷	NO. 14 1/C, UNLESS NOTED OTHERWISE			
COMMUNICATIONS CABINET	C C	ECC	СС			R			COAXIAL CABLE		— <u>c</u>	—©—
MASTER CONTROLLER		EMC	MC	HANDHOLE								
MASTER MASTER CONTROLLER		EMMC	MMC	HEAVY DUTY HA	NDHOLE	R	Н	H	VENDOR CABLE FOR CAMERA			
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS	DOUBLE HANDHO	LE	R			COPPER INTERCONNECT CABLE,		<u></u>	_6_
SERVICE INSTALLATION,	-□ ^R	- <u>□</u> -	- ■ P	JUNCTION BOX		R		0	NO. 18 3 PAIR TWISTED, SHIELDED FIBER OPTIC CABLE		,	
(P) POLE OR (G) GROUND MOUNT TELEPHONE CONNECTION			_	GALVANIZED STI IN TRENCH (T)					NO. 62.5/125, MM12F		— <u>12F</u> —	
(P) POLE OR (G) GROUND MOUNT STEEL MAST ARM ASSEMBLY AND POLE	R T	P _T			N WIRE, TETHER WIRE,	_R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		—24F—	—(24F)—
ALUMINUM MAST ARM ASSEMBLY AND POLE	O	0		COMMON TRENCH	ı			СТ	FIBER OPTIC CABLE NO. 62.5/125,		\prec	
STEEL COMBINATION MAST ARM	D				' ETALLIC CONDUIT (EMPTY)			CNC	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			-
ASSEMBLY AND POLE WITH LUMINAIRE	~ <u>×</u> —	0- X	• ×	SYSTEM ITEM			S	S	GROUND ROD AT (C) CONTROLLER,		C III	c ∥ ⊢ •
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PI	(PIX	PĪ	INTERSECTION I	TEM		I	IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		"├─	" →
SIGNAL POST	_	0	•	REMOVE ITEM		R			CONTROLLER CABINET AND	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	RO R	8	•	RELOCATE ITEM		RL			FOUNDATION TO BE REMOVED			
BETTER) 45 FOOT (13.7m) MINIMUM GUY WIRE	⊗ R	> <u> </u>	>	ABANDON ITEM	AFFIC SIGNAL SECTION	А	R	R	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
	R			12 (300)	AFFIC SIGNAL SECTION			K	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD SIGNAL HEAD CONSTRUCTION STAGES	\rightarrow	>	_		D WITH 8" (200mm) EEN TRAFFIC SIGNAL FACE		R S S					
(NUMBERS INDICATE THE CONSTRUCTION STAGE)			→ ²	TEELOW AND GIV	LEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O-X		
SIGNAL HEAD WITH BACKPLATE	+₽ ^R	+1>	+►				(R) (Y)	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	R →⊃′′P′′	—[>"p"	→ "P"	SIGNAL FACE				G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF O		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O- ⊳ ′′F′′	○- □ ′′F′′	●→ "F"				◆ ©	← Y ← G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
PEDESTRIAN SIGNAL HEAD	R -	-1	-				R	R	SAMPLING (SYSTEM) DETECTOR		S	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	©	©	SIGNAL FACE W	ITH BACKPLATE. PROGRAMMED HEAD			G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT(DR	Р	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	<pre> @APS</pre>	APS				"P"	₹G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		•	
ILLUMINATED SIGN	R		lacksquare					"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO)R	[PP]	
"NO LEFT TURN"				12" (300mm) PE WALK/DON'T WA	DESTRIAN SIGNAL HEAD LK SYMBOL		DW W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R				DESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS
DETECTOR LOOP, TYPE I		1 1		INTERNATIONAL	SYMBOL, OUTLINED						<u>↓ </u>	<u> </u>
PREFORMED DETECTOR LOOP		'' P	P	12" (300mm) PE INTERNATIONAL	DESTRIAN SIGNAL HEAD SYMBOL, SOLID		(₽ *	RAILROAD	SYMRO	N S	
	R	4							HAILIIOAD	O I WIDC	LU	
MICROWAVE VEHICLE SENSOR	R (M)(1)	MI	M		COUNTDOWN TIMER		① C ② D	₽ C * D			EXISTING	<u>PROPOSED</u>
VIDEO DETECTION CAMERA	R (V)∫	(V)	√	RADIO INTERCON	NNECT	 0		 	RAILROAD CONTROL CABINET			R
VIDEO DETECTION ZONE				RADIO REPEATE	3	R ERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	Σ	X OX X X	X OX X
PAN, TILT, ZOOM CAMERA	R ₽ ï M	PI	P I		R OF CONDUCTORS, ELECTRIC	2	21111		FLASHING SIGNAL		$\times \Theta \times$	X ⊖ X
WIRELESS DETECTOR SENSOR	R(W)	(W)	(W)	CABLE NO. 14, I	JNLESS NOTED OTHERWISE, LOOP CABLE TO BE SHIELDED				CROSSING GATE		202 >	X0 X —
WIRELESS ACCESS POINT	R		w)	GROUND CABLE	IN CONDUIT				CROSSBUCK		*	*
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\$FILEL\$ PLOT SCALE = \$SCALE\$		AWN - JDH	REVISED -		STATE DEPARTMENT O	OF ILLINOIS OF TRANSPO		DIS	STRICT ONE – STANDARD TRAFFIC SIGNAL DESIGN DETA		2012-003 I	LAKE 102 15
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EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	2	3	4					
MOVEMENT		-	•					

TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	WATTAGE % OPERATION		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	2	1 35	12	0.10	2						
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 =	362						

I. D. O. T.

ENERGY COSTS-

FILE NAME =

BILLED TO: IDOT DISTRICT 1

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

REVISED

REVISED

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

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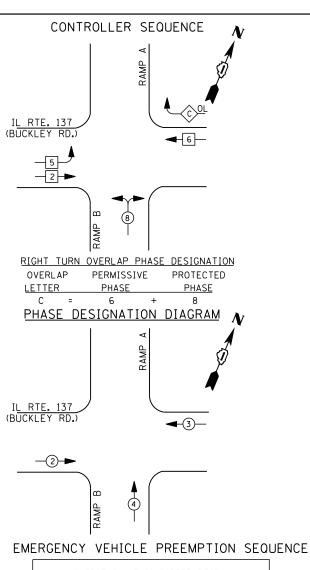
PHONE 847-816-5239 COMMONWEALTH EDISON REVISED REVISED

TS# 935 GREEN OAKS

/ RAMP D /	
	_
NO. 6	
	S
ILLINOIS ROUTE 137 4 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
NO. 6	
	D-0-3#20
TRACER CABLE	OF TRACER CABLE TRACER CABLE
INTERCONNECT TO O'PLAINE ROAD	5
UPS No. 6	INTERCONNECT TO RAMPS A AND B
RAMP C	(I-94, TRI-STATE TOLLWAY)
CABLE PLAN	
	RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.
SCHEDULE OF QUANTITIES	CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS OR AS DIRECTED BY THE ENGINEER. THE COST
OUANTITY UNIT 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 6 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, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.
6 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, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	

											-
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 137	(BUCKLEY F	(OAD)	& I–94	WEST RAMP	S – CABLE PLAN,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	SCHEDULE OF QUANTITIES, PHASE DESIGN, DIAGRAM & EVP SEQUENCE						2012-003 I	LAKE	102	16	
		domininico,	1 IIAU	- DLUIG	v. DIAGIIAW	Q EVI DEGOENOE	1		CONTRAC	T NO. 6	от4,
	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		





EMERGENO	Y VEHICLE	PREEMPTOF	RS
EMERGENCY VEHICLE PREEMPTOR	2	3	4
MOVEMENT	-	-	1

TRAFFIC SIGNAL INSTALLATION												
ELECTRICAL SERVICE REQUIREMENTS												
TYPE	NO. LAMPS	WATTAGE %		WATTAGE 2		% 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	2	1 35	12	0.10	2							
PED. SIGNAL		90	25	1.00								
CONTROLLER	1	100	100	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	-	1.00								

I. D. O. T.

FLASHER LED TOTAL = 362

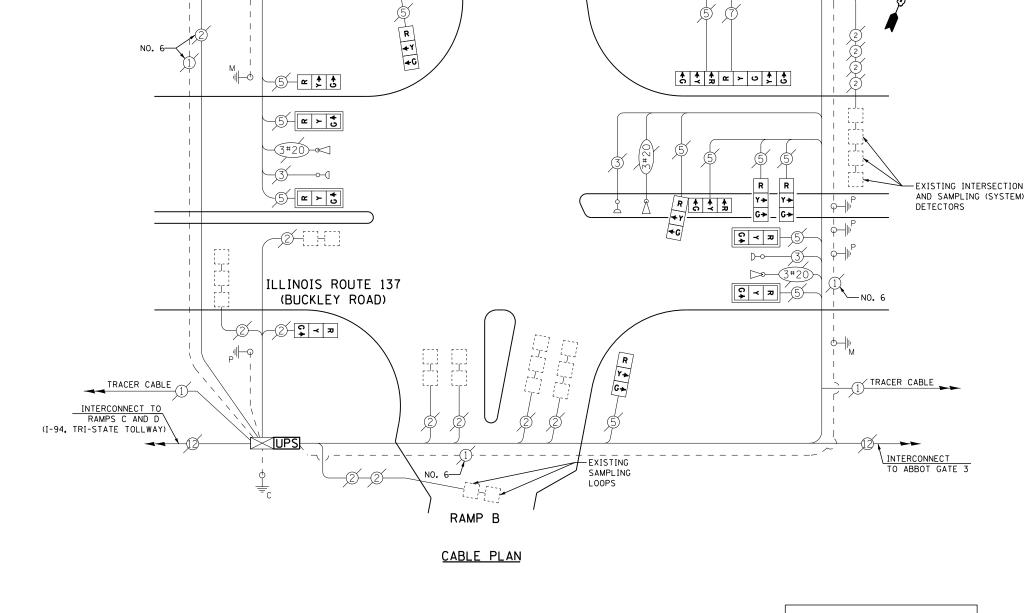
BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

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

ENERGY COSTS-

COMMONWEALTH EDISON



RAMP A

♣₽

NO. 6-

SCHEDULE OF QUANTITIES

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

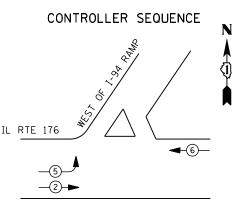
RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

TS# 936 GREEN OAKS

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	STATE OF HAINOIS IL ROUTE 137 (BUCKLEY ROAD) & I-94 EAST RAMPS - CABLE PLAN,		F.A. RTF	SECTION	COUNTY TOTAL SHEET SHEETS NO.			
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\00936_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS		QUANTITIES, PHASE DESI				2012-003 I	LAKE 102 17
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDOLE OF	QUANTITIES, PHASE DESI	IUIN DIAGNAIVI Q	EVP SEQUENCE			CONTRACT NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS	S STA.	TO STA.		ILLINOIS FED. AI	D PROJECT





LEGEND

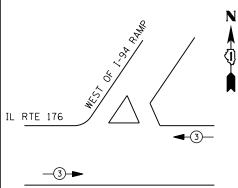
DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

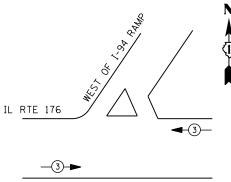
EMERGENCY VEHICLE PREEMPTOR	3	
MOVEMENT	—	

ENERGY COSTS-

201 WEST CENTER COURT

CONTACT TERRI BLECK ENERGY SUPPLY -

COMMONWEALTH EDISON



EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	
MOVEMENT	←	

	I. D.	O. T.	
TRAFFIC S	I GNAL	INSTALLA	TION
LECTRICAL	SERVIC	E REQUIR	EMENTS
		TT 1 0 F	** **

	ELECTRICAL	SERVICE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WATTAGE :		% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	5	1 35	17	0.50	43
(YELLOW)	5	1 35	25	0.25	31
(GREEN)	7	1 35	15	0.25	26
ARROW		1 35	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	1
FLASHER LED					
				TOTAL =	200

BILLED TO: IDOT DISTRICT 1

SCHAUMBURG, IL 60196-1096

PHONE 847-816-5239

TRACER CABLE

ILLINOIS ROUTE 176

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

INTERCONNECT TO ILL. 176 & ST. MARY'S ROAD

CABLE PLAN

WEST OF I-94 RAMP

— NO. 6

5

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u>

<u>ITEM</u>

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

EACH EACH EACH

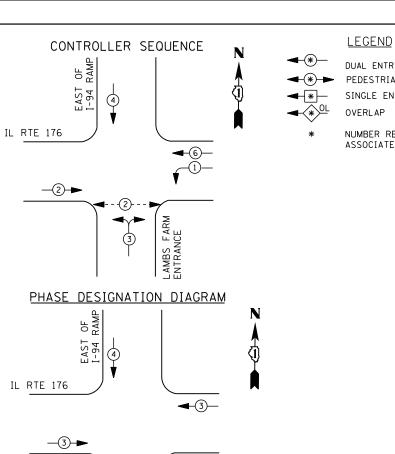
TS# 925 GREEN OAKS

TRACER CABLE EXISTING INTERCONNECT TO ILL. 176 @ EAST RAMP I-94

FILE NAME = USER NAME = SUSERS DESIGNED - DW REVISED - STATE OF ILLINOIS ROUTE 176 & V	WEST OF LOA RAMP _	– CABLE PLAN.	RTE	SECTION	COUNTY SHEETS	SHEET
Nt/Projects3\12004\DesignCAD\Sheet Files\12-001 Sheets SE Loke Co\00925_CAB_LAKE.dgf DRAWN - JDH REVISED - STATE OF ILLINUIS		· · · · · · · · · · · · · · · · · · ·	1	2012-003 I	LAKE 102	18
PLOT SCALE = SSCALES CHECKED - KMM REVISED - DEPARTMENT OF TRANSPORTATION SCHEDULE OF QUANTITIES, PH.	HASE DESIGN. DIAGRAM	I & EVP SEQUENCE				60T41
PLOT DATE = 3/28/2012 DATE - REVISED - SCALE: N.T.S. SHEET NO. OF	OF SHEETS STA.	TO STA.		ILLINOIS FED. AID	PROJECT	

<u>_5</u>_______





EMERGENCY	VEHICLE	PREEMPTO	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	←	ļ	^

	TRAFFIC SIGNAL INSTALLATION						
	ELECTRI CAL	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)	14	1 35	15	0.25	53		
ARROW	4	1 35	12	0.10	5		
PED. SIGNAL	2	90	25	1.00	50		
CONTROLLER	1	1 00	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
				TOTAL =	385		

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096 CONTACT TERRI BLECK ENERGY SUPPLY -

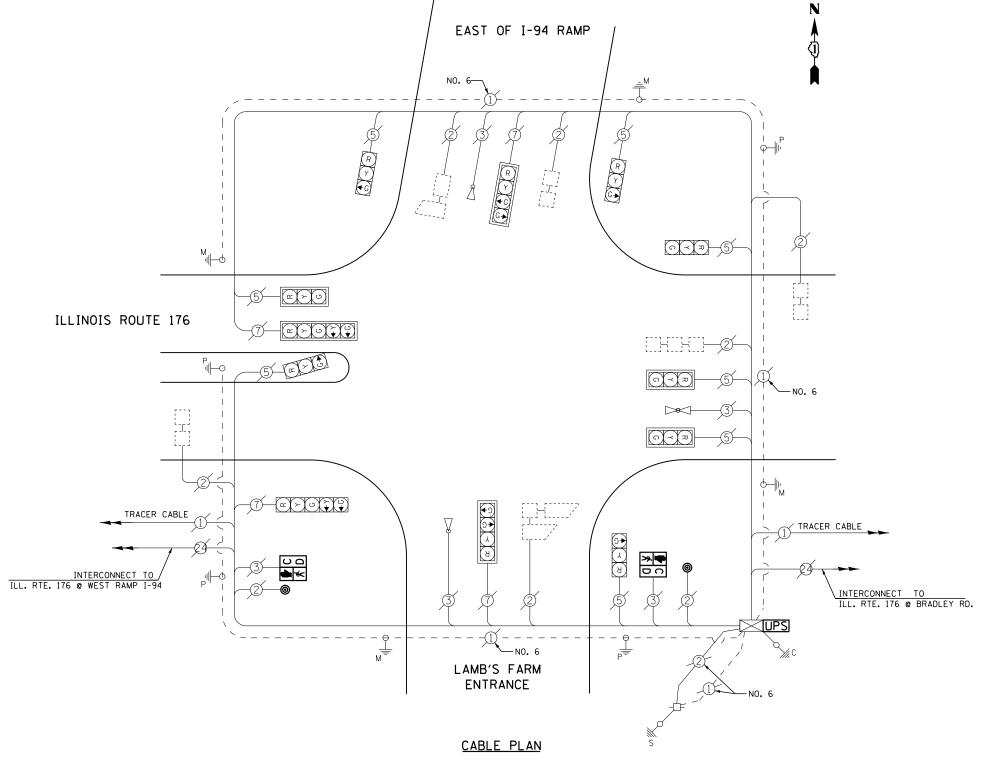
PHONE 847-816-5239

COMMONWEALTH EDISON

PEDESTRIAN PHASE

DUAL ENTRY PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



SCHEDULE OF QUANTITIES

QUANTITY	UNII	<u>IIEM</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 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.

PEDESTRAIN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

> TS# 930 GREEN OAKS

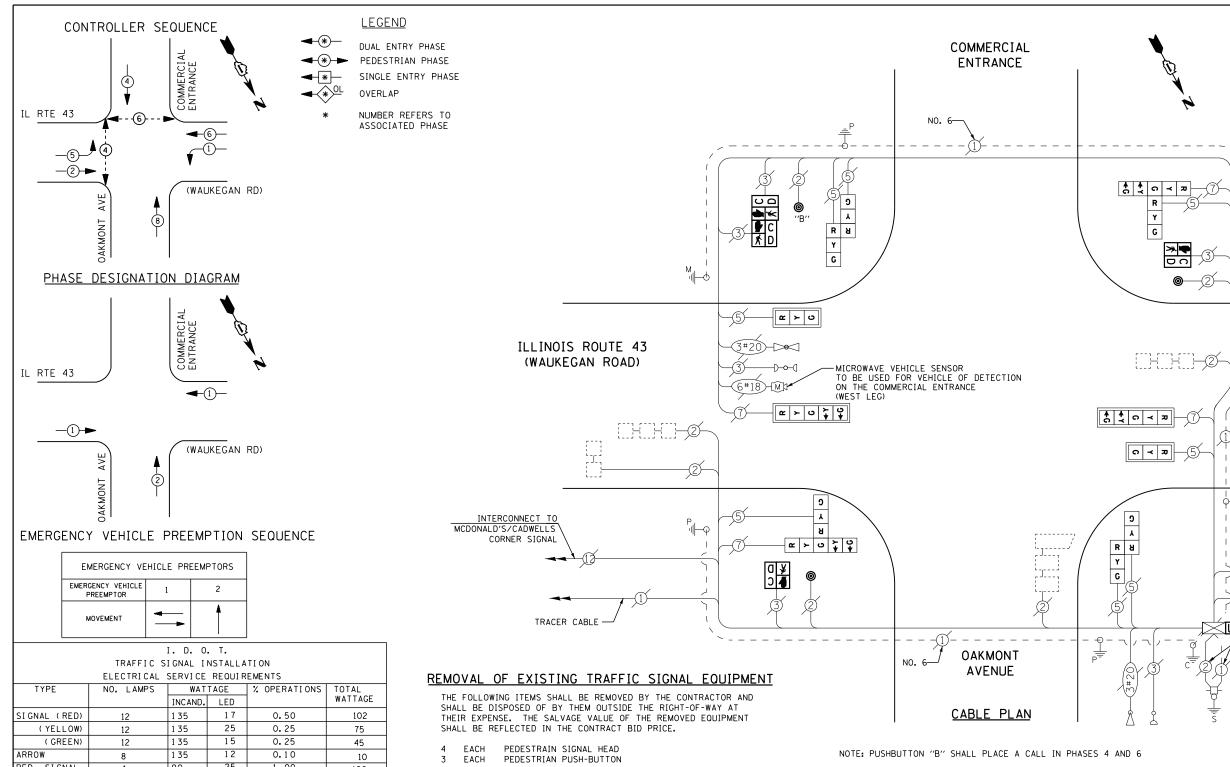
FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-	i
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\00930_CAB_LAKE.dgr	DRAWN	-	JDH	REVISED	-	İ
	PLOT SCALE = \$SCALE\$	CHECKED	-	кмм	REVISED	-	İ
	PLOT DATE = 3/28/2012	DATE	-		REVISED	-	i

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL RTE. 176 &	EAST OF I	94 RAN	1P/LAMB	S FARM EN	ITR. – CABLE PLAN	F
					& EVP SEQUENCE	- 1
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	T

Ė.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	2012-003 I		LAKE	102	19
			CONTRACT	NO. 6	OT41
	ILL INOIS	FED. AI	D PROJECT		





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	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 =	432

ENERGY COSTS-

BILLED TO: VILLAGE OF DEERFIELD 850 WAUKEGAN ROAD

DEERFIELD, IL 60015

ENERGY SUPPLY -

CONTACT TERRI BLECK 847-816-5239 PHONE

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY <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
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
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, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH FACH

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

INTERCONNECT TO KATES ROAD SIGNAL

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

(TRACER CABLE)

FIBER OPTIC CABLE.

NO. 62.5/125, 12F

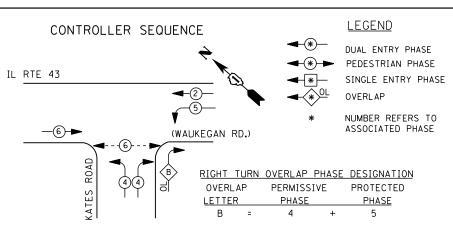
TS# 2367 DEERFIELD

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\02367_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -
	PLOT DATE = 3/28/2012	DATE -		REVISED -

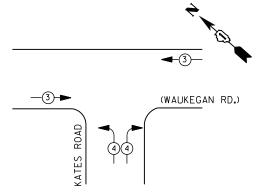
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TOTAL SHEET SHEETS NO. SECTION COUNTY ILL RTE 43 & OAKMONT AVE /COMMERCIAL ENTRANCE - CABLE PLAN, 2012-003 I LAKE 102 20 SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SHEET NO. OF SHEETS STA.





PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	 	<u></u>

ENERGY COSTS-

ENERGY SUPPLY -

	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)	13	1 35	17	0.50	111					
(YELLOW)	13	1 35	25	0.25	81					
(GREEN)	13	1 35	15	0.25	49					
ARROW	4	1 35	12	0.10	5					
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 =	396					

BILLED TO: VILLAGE OF DEERFIELD

847-816-5239

CONTACT TERRI BLECK

PHONE

850 WAUKEGAN ROAD DEERFIELD, IL 60015

COMMONWEALTH EDISON

QUANTITY UNIT 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-BUITTON
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
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
4 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED RETROFIT
1 EACH SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED RETROFIT
1 EACH SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED RETROFIT

SCHEDULE OF QUANTITIES

-TRACER CABLE ດ ≺ ສ R ແ ≻ ບ **+**Υ **+**G +G G→ EXISTING INTERCONNECT TO OAKMONT AVENUE (WAUKEGAN ROAD) ت ≺ ∞ -EXISTING INTERSECTION AND ಜ ≻ ೮ SAMPLING (SYSTEM) DETECTORS $\neg \infty$ NO. 6 -GREEN ~ > U > U |ດ| ≺ | ສ EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS |ດ | ≺ | ສ ILL. RTE. 43 ~ > U \ \ \ ດ ≺ ສ **≯.** ♥ C ₩ Y → G→ O UPS NO. 6 GREEN KATES ROAD TRACER CABLE RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D. CABLE PLAN CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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. EXISTING INTERCONNECT TO CORPORATE 500/KELBURN

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

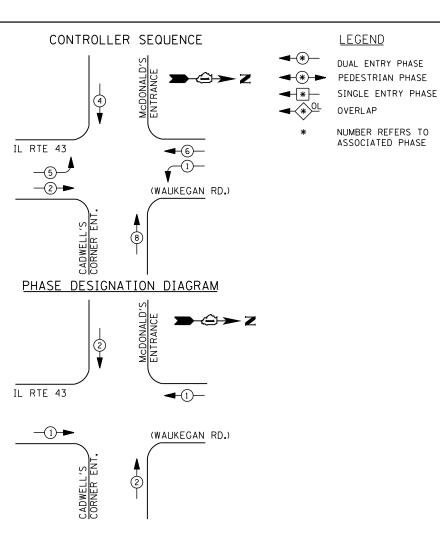
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON

TS# 12920 DEERFIELD

													DELINI		
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTF //3	/WAIIKEGAN	N BUVU 8	KVIEZ BUVD	– CABLE PLAN,	F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-001 Sheets SE Lake Co\12920_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS		•	•		· ·		2012-003 I	LAKE	102	21
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDOLE OF	QUANTITIES,	, PHASE DES	IGN. DIAGKAN	1 & EVP SEQUENCE		2012 000 1	CONTRAC	T NO. 6	50T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEET	S STA.	TO STA.		ILLINOIS FED. A			





EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	—	

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

	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		
FLASHER LED						
				TOTAL =	370	

BILLED TO: VILLAGE OF DEERFIELD

PLOT DATE = 3/28/2012

850 WAUKEGAN ROAD DEERFIELD, IL 60015

CONTACT TERRI BLECK ENERGY SUPPLY -PHONE

ENERGY COSTS-

N:\Projects3\12004\DesignCAD\Sheet File

FILE NAME =

847-816-5239 COMMONWEALTH EDISON

DESIGNED USER NAME = \$USER\$ REVISED DW s 12-001 Sheets SE Lake Co\12915_CAB_LAKE.do DRAWN JDH REVISED

CHECKED

DATE

* - 100% COST TO VILLAGE OF DEERFIELD

REVISED

REVISED

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

INTERCONNECT TO

LAKE-COOK RD. FIBER OPTIC CABLE

NO. 62.5/125. 12F

TRACER CABLE

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 10 EACH EACH TRAFFIC SIGNAL BACKPLATE

EACH STEEL POST

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
3 2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED. 3-FACE, 3-SECTION, BRACKET MOUNTED
1 2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
* 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

CABLE PLAN

NO. 6

RELOCATE EXISTING EVP

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MCDONALD,

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ILL ROUTE 43

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NO. 6

DETECTOR UNIT TO NEW 18' POST

↑ ↑ O ≺ R E ≻ O

(WAUKEGAN RD.)

↑ ↑ 0 ≺ R

G

1

ENT.

CORNER

- 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.

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.

TS# 12915 DEERFIELD

TRACER CABLE

INTERCONNECT TO OAKMONT AVE.

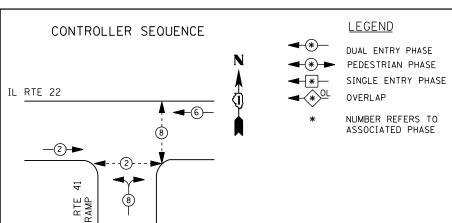
-FIBER OPTIC CABLE NO. 62.5/125. 12F

IL. RTE. 43 AND McDONALD'S/CADWELL'S CORNER ENT. - CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE SHEET NO. OF SHEETS STA.

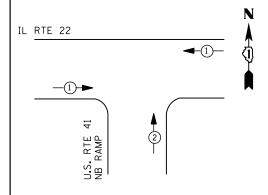
_		ILL INOIS F	 CONTRACT	NU. 6	0014
			CONTRACT		O T 4
		2012-003 I	LAKE	102	22
	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**





PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	—	†

TRAFFIC SIGNAL INSTALLATION								
ELECTRICAL SERVICE REQUIREMENTS								
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	0	1 35	12	0.10				
PED. SIGNAL	4	90	25	1.00	100			
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05	-			
VIDEO SYSTEM		150	ı	1.00	-			
FLASHER LED								
				TOTAL =	386			

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1
201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096

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

847-816-5239 COMMONWEALTH EDISON

JANTITY	<u>UNIT</u>	<u>ITEM</u>
1 2 1	EACH EACH EACH EACH	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 PEDESTRIAN PUSH-BUTTON
1 1 1	EACH EACH EACH	MÖDÍFY ÉXISTÍNG CONTROLLER CABINET REMOVE EXISTÍNG TRAFFIC SIGNAL EOUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4 4 1	EACH EACH EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT

SCHEDULE OF QUANTITIES

R Y G RYG R Y G (5) - | 0 NO. 6-<u>∝ ≻ ∪</u> n ≺ ¬ —(5) ILLINOIS ROUTE 22 5 — ≃ > ∪ Y TRACER CABLE -RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D. U.S. ROUTE 41 NORTHBOUND RAMP

CABLE PLAN

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

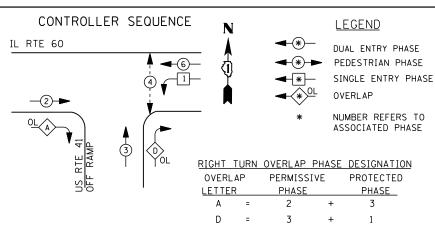
4 EACH PEDESTRIAN SIGNAL HEAD

4 EACH PEDESTRIAN PUSH-BUTTON

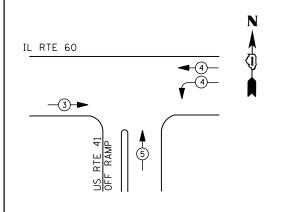
TS# 6543 HIGHLAND PARK

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FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II ROUTE 22	& II C BUII	TF //1 N	ORTHR	OLIND BAMI	P – CABLE PLAN,	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	\12-001 Sheets SE Lake Co\06543_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS						· ·	11112	2012-003 I	LAKE	102	23
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SI		& EAL SEGUENCE			CONTRAC		60T41			
1	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF S	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		





PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5				
MOVEMENT	-	—	†				

	Ι.	D. 0.	Τ.	
TF	RAFFIC SIC	SNAL IN	NSTALLATIC	N
ELEC	CTRICAL SE	RVICE	REQUI REME	NTS

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	8	1 35	12	0.10	10	
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	ı	1.00	-	
FLASHER LED						

ENERGY COSTS-

BILLED TO: CITY OF HIGHLAND PARK 1707 ST. JOHNS AVENUE

12-001 Sheets SE Lake Co\11875_CAB_LAKE.do

ENERGY SUPPLY -

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FILE NAME =

CONTACT TERRI BLECK

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

PHONE

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

HIGHLAND PARK, IL 60035

TOTAL =

382

DESIGNED

CHECKED

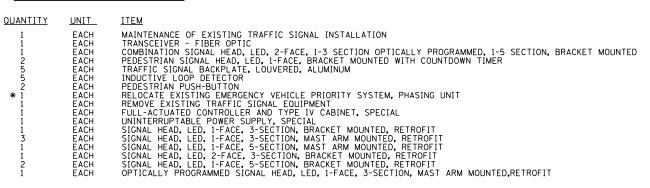
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DATE

DW

JDH

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* - 100% COST TO CITY OF HIGHLAND PARK

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INTERCONNECT TO SKOKIE VALLEY ROAD R Y G R Y G Y→ TRACER CABLE -EXISTING INTERSECTION AND SAMPLING (SYSTEM) اد|≺|∡|⊸[ن] DETECTORS |ດ|∢|⊅|⊦ CLAVEY ROAD 3#20 EXISTING INTERSECTION AND D-0-(1-SAMPLING (SYSTEM) DETECTORS G Y+ G+ 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. ROUTE 41 PEDESTRIAN SIGNAL HEAD RETROFIT ALL EXISTING OFF RAMP PEDESTRI AN PUSH-BUTTON SIGNAL HEADS TO L.E.D. CONTROLLER AND CABINET (COMPLETE)

CABLE PLAN

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

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

> TS# 11875 HIGHLAND PARK

SECTION COUNTY U.S. ROUTE 41 & CLAVEY ROAD /OLD SKOKIE RD - CABLE PLAN, 2012-003 I LAKE 102 24 SCHEDULE OF QUANTITIES & PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SHEET NO. OF SHEETS STA. ILLINOIS FED. AID PROJECT

SIGNAL HEAD, 1 - FACE, 3 - SECTION

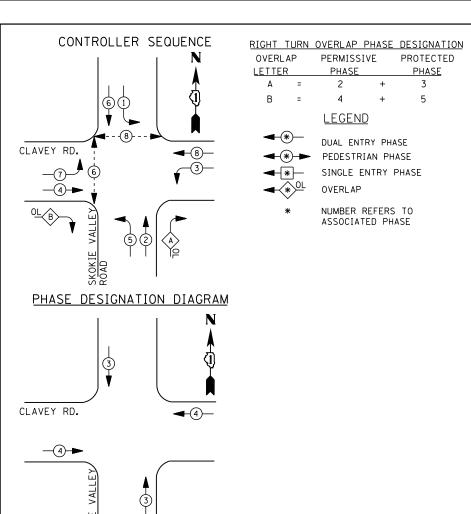
SIGNAL HEAD, 1 - FACE, 5 - SECTION

TRAFFIC SIGNAL BACKPLATE

SCHEDULE OF QUANTITIES

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**





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

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

TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	15	1 35	17	0.50	128	
(YELLOW)	15	1 35	25	0.25	94	
(GREEN)	15	1 35	15	0.25	56	
ARROW	24	1 35	12	0.10	29	
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: CITY OF HIGHLAND PARK

1707 ST. JOHNS AVENUE HIGHLAND PARK, IL 60035

ENERGY SUPPLY -

FILE NAME =

CONTACT TERRI BLECK PHONE

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

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TOTAL =

507

DW

JDH

КММ

DESIGNED

CHECKED

DRAWN

DATE

847-816-5239 COMMONWEALTH EDISON

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.

CONTROLLER AND CABINET (COMPLETE) FACH

EACH MASTER CONTROLLER EACH PEDESTRIAN SIGNAL HEAD

EACH PEDESTRIAN PUSH-BUTTON TRAFFIC SIGNAL BACKPLATE

SCHEDULE OF QUANTITIES

QUANTITY	<u>unit</u>	ITEM
QUANTITY 1 1 1 2 1 8 8 4 * 1 1 1 1 3 5 3	Y UNIT EACH EACH EACH EACH EACH EACH EACH EAC	ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MASTER CONTROLLER (SPECIAL) TRANSCEIVER - FIBER OPTIC PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM INDUCTIVE LOOP DETECTOR PEDESTRIAN PUSH-BUTTON RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL 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, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

EXISTING INTERSECTION -

AND SAMPLING (SYSTEM)

DETECTORS

* - 100% COST TO CITY OF HIGHLAND PARK

REVISED

REVISED

REVISED

REVISED

NO. 62.5/125F /INTERCONNECT TO U.S. RTE. 41 NB RAMPS **ਨ ‡** ਨ ≺ 🌣 υ <u>α</u> TRACER CABLE м ⊪Ф മ ≻ ∪ -EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS D-0-(1-Ç ; c ≺ z CLAVEY ROAD R SKOKIE CABLE PLAN NO. 62.5/125F -TRACER CABLE INTERCONNECT TO U.S. RTE. 41 SB RAMPS 12 RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

> TS# 11876 HIGHLAND PARK

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

SECTION COUNTY SKOKIE VALLEY ROAD AT CLAVEY ROAD - CABLE PLAN, STATE OF ILLINOIS 2012-003 I LAKE 102 25 SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.





DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

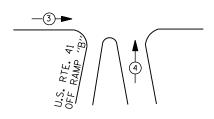
NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

SKOKIE VALLEY ROAD

-(2)





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS				
EMERGENCY VEHICLE 3 4						
MOVEMENT	-	†				

]	. D.	0. T			
TRAFFIC SI	GNAL	INST	ALLAT	ΓΙΟΝ	
ELECTRICAL S	SERVI	E RE	QUI RE	EMENTS	
NO LAMBC	147.7	TTAC	_	*/ ADED	_

	ELECTRICAL SERVICE REQUIREMENTS											
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	2	90	25	1.00	50							
CONTROLLER	1	100	1 00	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	ı	1.00								
FLASHER LED												

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: CITY OF HIGHLAND PARK 1707 ST. JOHNS AVENUE

HIGHLAND PARK, IL 60035

TOTAL =

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

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

EXISTING INTERSECTION AND

SAMPLING (SYSTEM) DETECTORS

QUANTITY	<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
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	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

EACH PEDESTRIAN SIGNAL HEAD

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SKOKIE VALLEY RD.

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ON RAMP

CABLE PLAN

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EACH PEDESTRIAN PUSH-BUTTON 4 EACH TRAFFIC SIGNAL BACKPLATE

TS# 11877 HIGHLAND PARK

-EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

INTERCONNEC TO

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

CLAVEY ROAD

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II S ROUTE	. 41 RAMP	ς ΔT S	SKUKIE /	/ΔΙΙΕΎ ROΔD	- CABLE PLAN	F.A.	SECTION	COUNTY	TOTAL	. SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\11877_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS							11122	2012-003 I	LAKE	102	26
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF	UUANIIII	3, РПА	9E DE9I	GN. DIAGRAM	& EVP SEQUENCE	_		CONTRAC	T NO.	60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	ID PROJECT		



LINCOLNSHIRE, IL 60069

COMMONWEALTH EDISON

DESIGNED

CHECKED

DRAWN

DATE

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REVISED

REVISED

CONTACT TERRI BLECK

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

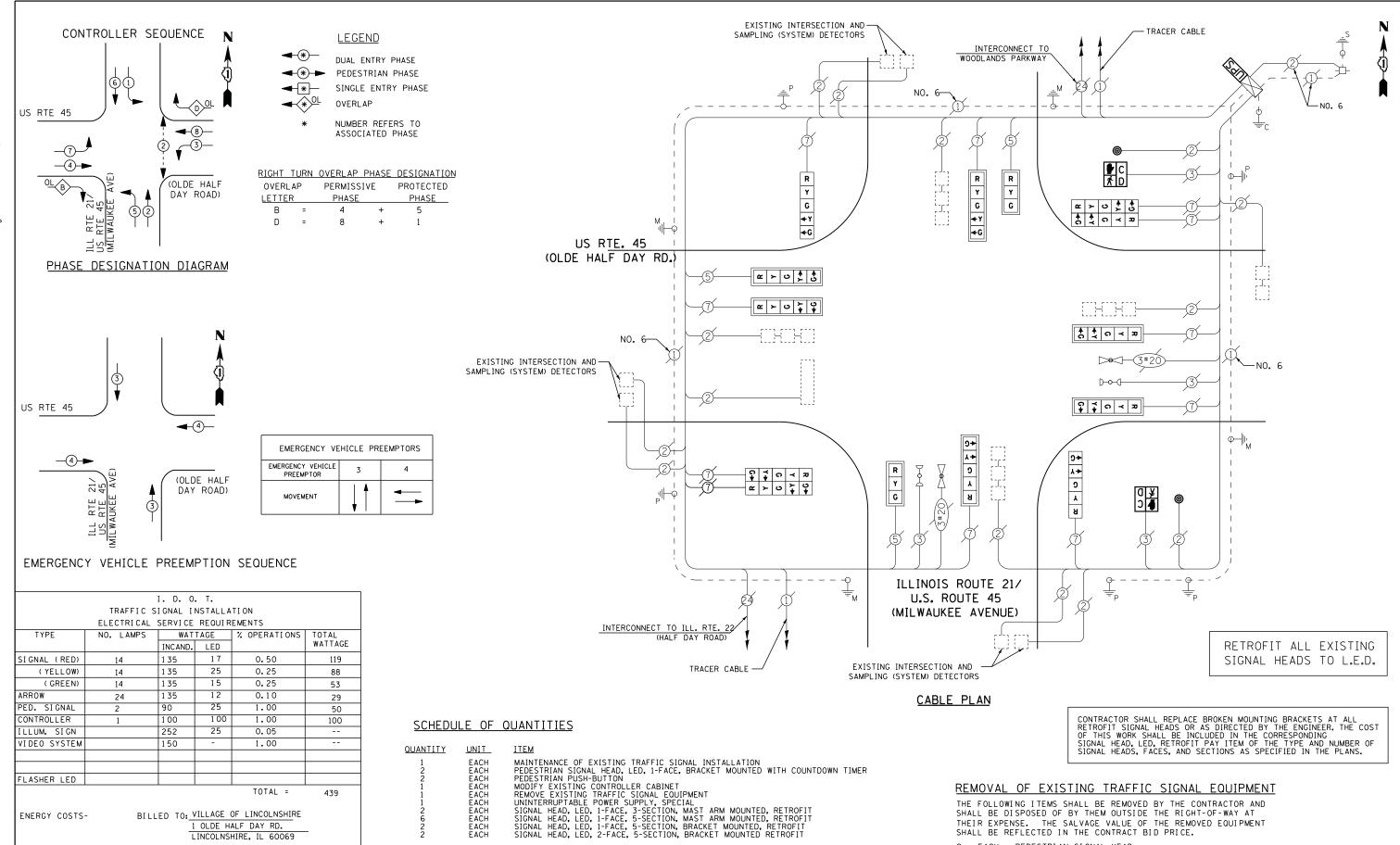
847-816-5239

PHONE

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ENERGY SUPPLY -

FILE NAME =



PEDESTRIAN PUSH-BUTTON TS# 6595 LINCOLNSHIRE

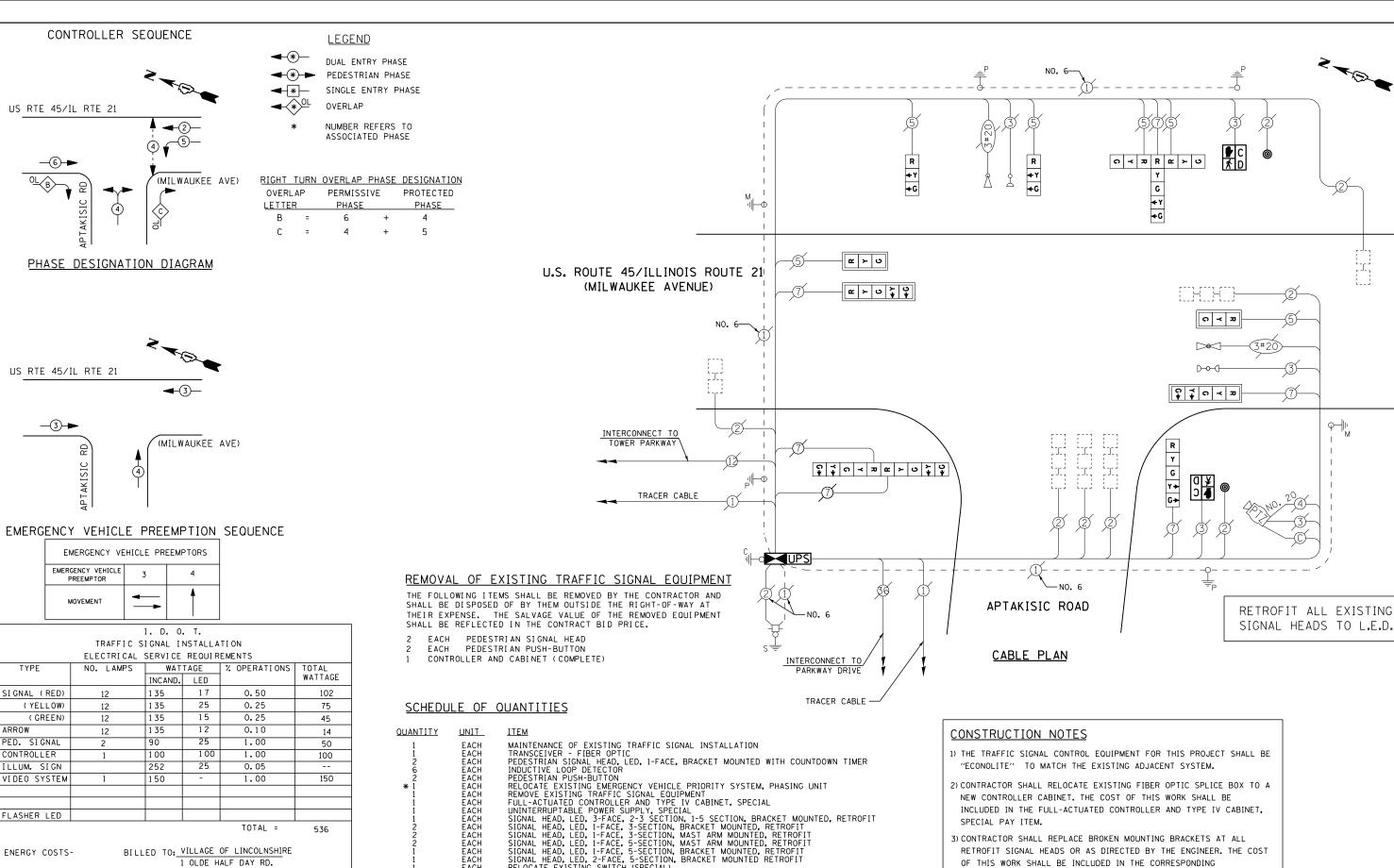
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL RTE. 21 (MILW	AUKEE AVE	.) & U	S. 45 (0	LDE HALF (DAY RD.)-CABLE PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
'		•			1 & EVP SEQUENCE		2012-003 I	LAKE	102	27
SUILDULL OF	LOANTITIES	, ו וואט	L DESIG	V. DIAGITAIV	1 & EVI SEGULNUE			CONTRAC	T NO. 6	50T41
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

EACH PEDESTRIAN SIGNAL HEAD





<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
2	EACH	PEDESTRIAN SIGNAL HEAD. LED. 1-FACE. BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	PEDESTRIAN PUSH-BUTTON
* 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
Ī	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
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
Ī	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
ī	EACH	SIGNAL HEAD, LED. 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT
Ī	EACH	RELOCATE EXISTING SWITCH (SPECIAL)
Ī	EACH	RELOCATE EXISTING VIDEO ENCODER, SPECIAL

* - 100% COST TO VILLAGE OF LINCOLNSHIRE

TS# 6630 LINCOLNSHIRE

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	- <i>5/4/12</i>
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	PLOT SCALE = \$SCALE\$	CHECKED	-	кмм	REVISED	-
	PLOT DATE = 5/7/2012	DATE	-		REVISED	-

LINCOLNSHIRE, IL 60069

COMMONWEALTH EDISON

CONTACT TERRI BLECK

847-816-5239

PHONE

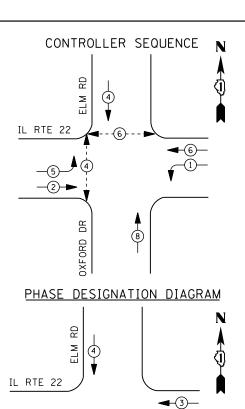
ENERGY SUPPLY -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

U.S. RTE. 45/IL R	TE. 21 (MILV	VAUKE	E AVE.) a	& APTAKISI	C ROAD-CABLE PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDIIIE OF	OUANTITIES	рилс	F DESIG	N DIAGRAM	& EVP SEQUENCE		2012-003 I	LAKE	102	28
SUILDULL OF	COANTITIES	, ו וותט	L DESIG	N. DIAGITAIN	& LVI SEGULIVOE			CONTRAC	T NO. 6	OT41
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

SIGNAL HEAD, LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES, AND SECTIONS AS SPECIFIED IN THE PLANS.





EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	—	 						

		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	4	90	25	1.00	100							
CONTROLLER	1	1 00	1 00	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	-	1.00								
FLASHER LED												
				TOTAL =	432							

ENERGY COSTS-

-3-**→**

BILLED TO: VILLAGE OF LINCOLNSHIRE 1 OLDE HALF DAY RD.

LINCOLNSHIRE, IL 60069

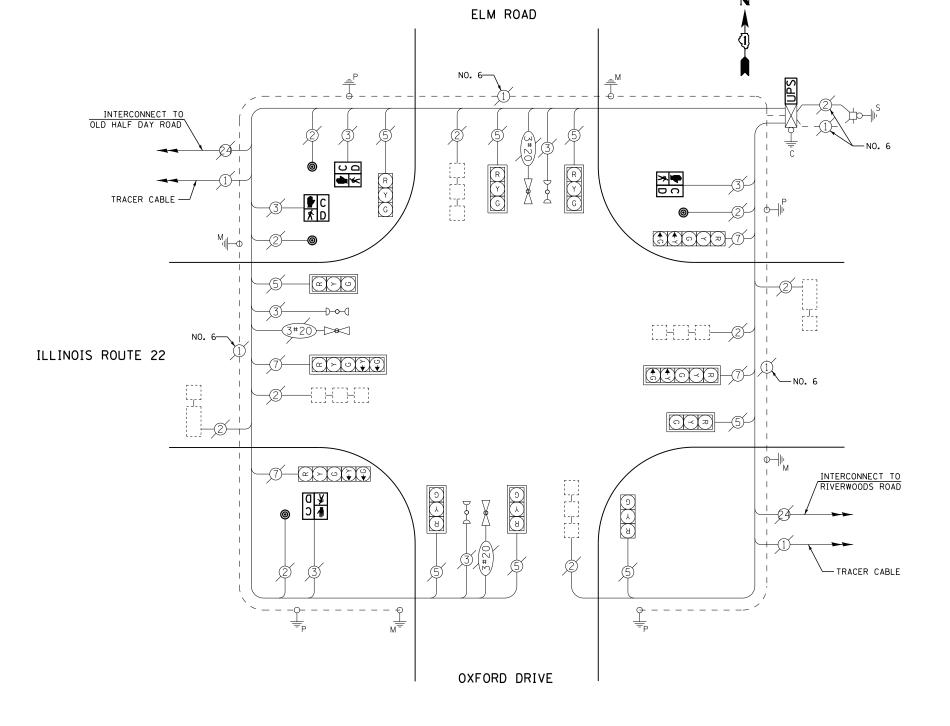
ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239 COMMONWEALTH EDISON

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

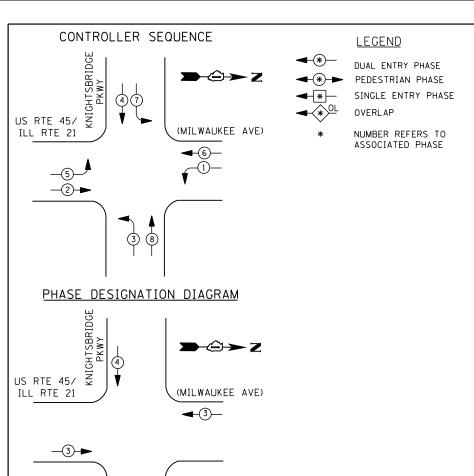
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

TS# 11605 LINCOLNSHIRE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		ILLINOIS BO	IITF 22 & F	IM RO	AD /OXFORD	DRIVE – CABLE PLAN.	F.A. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\11605_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE			2012-003 I	LAKE	102 29			
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRAC	T NO. 60T41			
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	PROJECT	





(4)

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	†	↓ ↑

TRAFFIC SIGNAL INSTALLATION											
	ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	17	1 35	1 7	0.50	145						
(YELLOW)	17	1 35	25	0.25	106						
(GREEN)	17	1 35	15	0.25	64						
ARROW	16	1 35	12	0.10	19						
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	-						

I. D. O. T.

ENERGY COSTS-

FLASHER LED

BILLED TO: VILLAGE OF LINCOLNSHIRE 1 OLDE HALF DAY RD.

LINCOLNSHIRE, IL 60069

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239 COMMONWEALTH EDISON

TOTAL =

434

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
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
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH EACH EACH EACH EACH

QUANTITY

EACH EACH

U.S. ROUTE 45/ILLINOIS ROUTE 21

INTERCONNECT TO

TRACER CABLE

(MILWAUKEE AVENUE)

INTERCONNECT TO MARRIOT DRIVE — NO. 6 CABLE PLAN SCHEDULE OF QUANTITIES REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT <u>UNIT</u> <u>ITEM</u>

KNIGHTSBRIDGE

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PARKWAY

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NO. 6-

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 TRAFFIC SIGNAL BACKPLATE FACH EACH

EACH

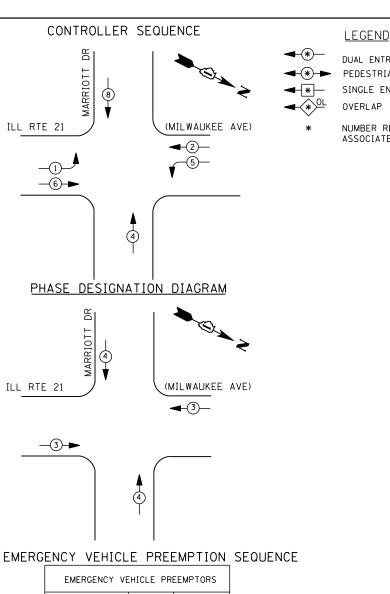
TS# 6665 LINCOLNSHIRE

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TRACER CABLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II S RTF //F	/II RTF 21	S. KIN	ICHTCR	BIDGE DKWA	_ CARLE PLAN	F.A.	SECTION	COUNTY	TOTAL	SHE	ĒΤ
$N: \Projects 3 \12004 \Design CAD \Sheet Files$	12-001 Sheets SE Lake Co\06665_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	U.S. RTE. 45 /IL RTE. 21 & KNIGHTSBRIDGE PKWY. – CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE		1012	2012-003 I	LAKE	102	3	÷				
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION			DIE DE DUANTILIES PRASE DESIGN DIAGRAM & EVP SEUDENGE 🗕 🗕 💮 💮 💮			CONTRAC	T NO.	60T4	41			
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT			





EMERGENCY VE	EEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	†					

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

	LLLCTRICAL	ELECTRICAL SERVICE REGULATS								
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						
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 LINCOLNSHIRE 1 OLDE HALF DAY RD.

LINCOLNSHIRE, IL 60069

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

ILLINOIS ROUTE 21 (MILWAUKEE AVENUE)

TRACER CABLE

INTERCONNECT TO

KNIGHTS BRIDGE PKWY.

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 TRAFFIC SIGNAL BACKPLATE

SIGNAL POST

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	<u>ITEM</u>
1 2	EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2 5 3	EACH EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3 2 2	EACH EACH EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
7 1	EACH EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM MODIFY FXISTING CONTROLLER CABINET
1 1	EACH EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 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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REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

CABLE PLAN

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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.

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.

MARRIOTT DRIVE

TS# 6695 LINCOLNSHIRE

TRACER CABLE

INTERCONNECT TO

ILLINOIS ROUTE 22

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TOTAL =

332

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY IL RTE. 21 (MILWAUKEE AVE.) & MARRIOTT DRIVE - CABLE PLAN, 2012-003 I LAKE 102 31 SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SHEET NO. OF SHEETS STA.





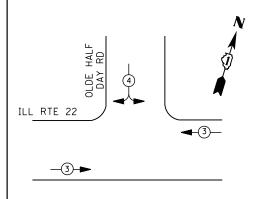
ILL RTE 22 **4**-6)− -5-**-2**→

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	-	*

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	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									

ENERGY COSTS-

BILLED TO: VILLAGE OF LINCOLNSHIRE

1 OLDE HALF DAY RD. LINCOLNSHIRE, IL 60069

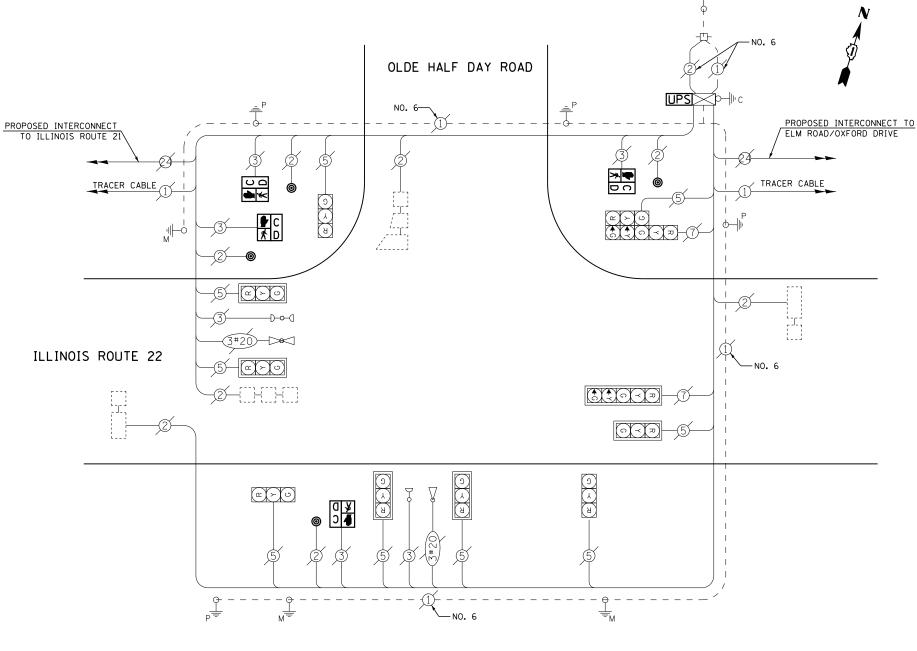
TOTAL =

409

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON



CABLE PLAN

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

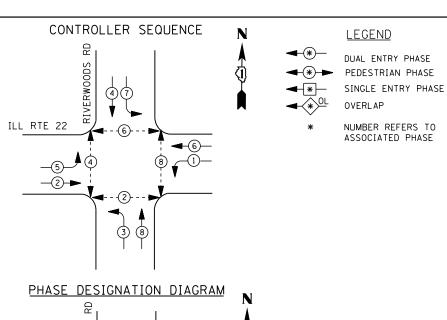
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

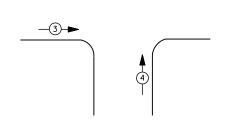
TS# 6760 LINCOLNSHIRE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II JIMOIS I	ROUTE 22 & OL	DE HALE DA	V ROAD _	CARIE PIAN	F.A.	SECTION	COUNTY	TOTAL SHE	EET
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	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHA		ASE DESIGN.	. DIAGRAIVI	& EAL SEGUENCE				T NO. 60T	41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. X OF	F X SHEETS	STA.	TO STA.		ILLINOIS FED. A			





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ILL RTE 22

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	—	↓ ↑				

	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	8	90	25	1.00	200					
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM	1	150	-	1.00	150					
FLASHER LED										

I. D. O. T.

ENERGY COSTS-

BILLED TO: VILLAGE OF LINCOLNSHIRE 1 OLDE HALF DAY RD.

LINCOLNSHIRE, IL 60069

TOTAL =

765

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

SCHEDULE OF QUANTI

<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 3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMES
ī	EACH	MODIFY EXISTING CONTROLLER CABINET
ī	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
Ī	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

INTERCONNECT TO-ELM ROAD

TRACER CABLE -

FIL	LE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		HIINOIS	ROUTE 22	& RIV	/FRW(OODS ROA	AD – CABLE PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL	L SHE
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		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION			, FIIASI	DE DE	DIGIN. DIA	dhaw a EVF SEQUENCE	-		CONTRAC	T NO.	60T
		PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEE	TS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

STATE OF ILLINOIS	ILLINOIS ROUTE 22 & RIVERWOODS ROAD - CABLE PLAN F.A. SECTION COUNTY TOTAL SHEETS NO.
	TS# 6770 LINCOLNSHIRE
	8 EACH PEDESTRIAN SIGNAL HEAD 5 EACH PEDESTRIAN PUSH-BUTTON
TRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN Y EXISTING CONTROLLER CABINET WE EXISTING TRAFFIC SIGNAL EQUIPMENT ERRUPTABLE POWER SUPPLY, SPECIAL STRIAN PUSH-BUTTON, NON-LATCHING	TIMER 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.
ENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION STRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN	REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT
TITIES	± S
	PUSH BUTTON "A" SHALL PLACE A CALL IN PHASED 2 AND 4 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASED 4 AND 6 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASED 2 AND 8
	CABLE PLAN NOTES:
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RIVERWOODS ROAD

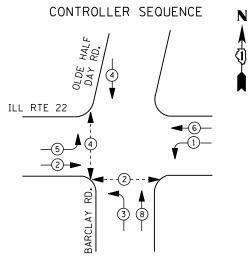
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ILLINOIS ROUTE 22

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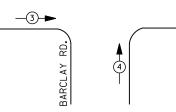
LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

HAL RD OLDE DAY 4 ILL RTE 22 **3**—



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	↓ ↑

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

	ELECTRICAL	SERVICE	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	12	1 35	12	0.10	14
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		150	-	1.00	
FLASHER LED					
				TOTAL =	510

ENERGY COSTS-

BILLED TO: VILLAGE OF LINCOLNSHIRE 1 OLDE HALF DAY RD.

LINCOLNSHIRE, IL 60069

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

ILLINOIS ROUTE 22

TRACER CABLE -

INTERCONNECT TO STEVENSON DRIVE/ PALAZZO 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.

EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

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OLDE HALF DAY ROAD

-NO. 6

BARCLAY BOULEVARD

CABLE PLAN

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TS# 6780 LINCOLNSHIRE

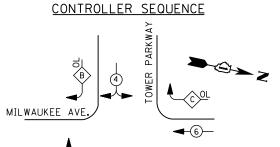
-TRACER CABLE

INTERCONNECT TO

ILL. RTE. 21 (MILWAUKEE AVE.)

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FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTE 22 & RARCIAN	V ROLLEV	ARD /O	DE HAIE DA	AY RD. – CABLE PLAN,	F.A.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANT	IIIIES, PHA	AZE DEZ	IGN. DIAGKA	M & EVP SEQUENCE			CONTRAC	CT NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET	NO. OF	SHEET	S STA.	TO STA.		ILLINOIS FED.	AID PROJECT	





LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

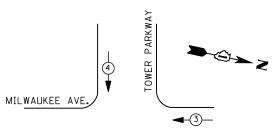
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(ILL. RTE. 21)

В

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED PHASE PHASE

PHASE DESIGNATION DIAGRAM



─ 3 ►	(ILL.	RTE.	21)

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	•

	I.	D.	0.	Τ.	
TRAFFIC	SIG	NAL	ΙN	STALL	ATION
ELECTRICA	L SE	RVI	CE	REQUI	REMENTS

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	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
				TOTAL =	332		

ENERGY COSTS-

BILLED TO: VILLAGE OF LINCOLNSHIRE 1 OLDE HALF DAY RD.

LINCOLNSHIRE, IL 60069

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON



EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	+	ļ

SCHEDULE OF QUANTITIES

INTERCONNECT TO APTAKISIC ROAD

FIBER OPTIC CABLE 62.5/125 12F MULTIMODE

TRACER CABLE #10

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

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MILWAUKEE AVE.

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

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TOWER

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CABLE PLAN

Ŋ B

NO. 6-

TS# 21405 LINCOLNSHIRE

-FIBER OPTIC CABLE

62.5/125

PKWY

12F MULTIMODE

TRACER CABLE #10

- INDUCTION LOOP DETECTOR AMPLIFIER WITH SYSTEM OUTPUT (TYPICAL FOR ILL. RTE. 21)

INTERCONNECT TO KNIGHTS BRIDGE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		
N:\Projects3\12004\DesignCAD\Sheet Files	\12-001 Sheets SE Lake Co\21405_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	00115011
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDU
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T

			· · · · · · ·	-		
IL ROUTE 21 & TOWER PARKWAY – CABLE PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ULE OF QUANTITIES, PHASE DESIGN,DIAGRAM & EVP SEQUENCE		2012-003 I	LAKE	102	35	
DEL OF GOARTHES, FRASE DESIGN. DIAGRAM & EVE SEGULIVOE			CONTRAC	NO. 6	OT41	
T.S. SHEET NO. OF SHEETS STA. TO STA.	THE INDISERT AND PROJECT					

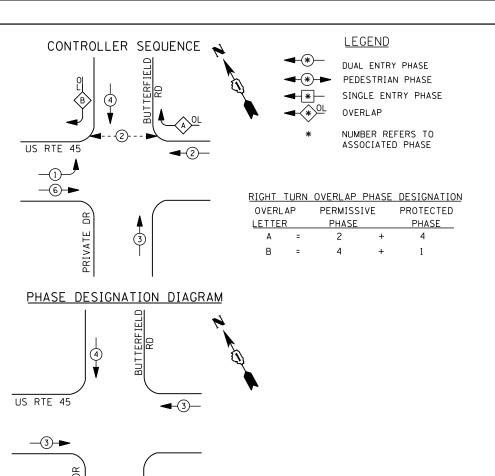
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(ILL. ROUTE 21)

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EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	4							
MOVEMENT	+	•							

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	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 =	589								

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT <u>TERRI BLECK</u>
PHONE 847-816-5239

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

 QUANTITY
 UNIT
 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

INTERCONNECT TO OAKWOOD RD.

TRACER CABLE -

U.S. ROUTE 45

______ **____** ←

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.

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

BUTTERFIELD ROAD

NO. 6-

PRIVATE DRIVE

CABLE PLAN

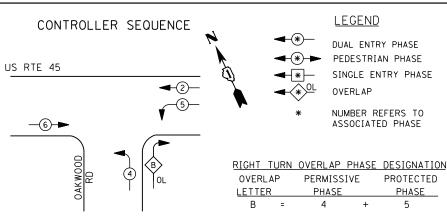
TS# 6640 VERNON HILLS

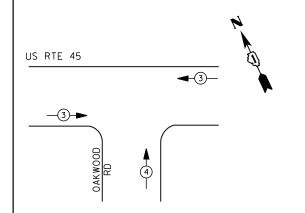
INTERCONNECT TO EVERGREEN DR.

TRACER CABLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		U.S. ROUTE 45 & BUTTERFIELD ROAD – CABLE PLAN,					F.A. RTF	SECTION	COUNTY	TOTAL SHEETS	SHEET	
N:\Projects3\12004\DesignCAD\Sheet Files	\12-001 Sheets SE Lake Co\06640_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS						•		2012-003 I	LAKE	102	36
PLOT SCALE = \$SCALE\$ CHECKED -		КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	2CHEDOLE OF	QUANTITIES	, PHAS	E DESIG	N. DIAGKAI	M & EVP SEQUENCE			CONTRAC		0T41	
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		







EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEI	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	†

	TRAFFIC SIGNAL INSTALLATION											
	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		90	25	1.00								
CONTROLLER	1	100	100	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	-	1.00								
	•				•							

I. D. O. T.

ENERGY COSTS-

FLASHER LED

BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DRIVE

VERNON HILLS, IL 60061

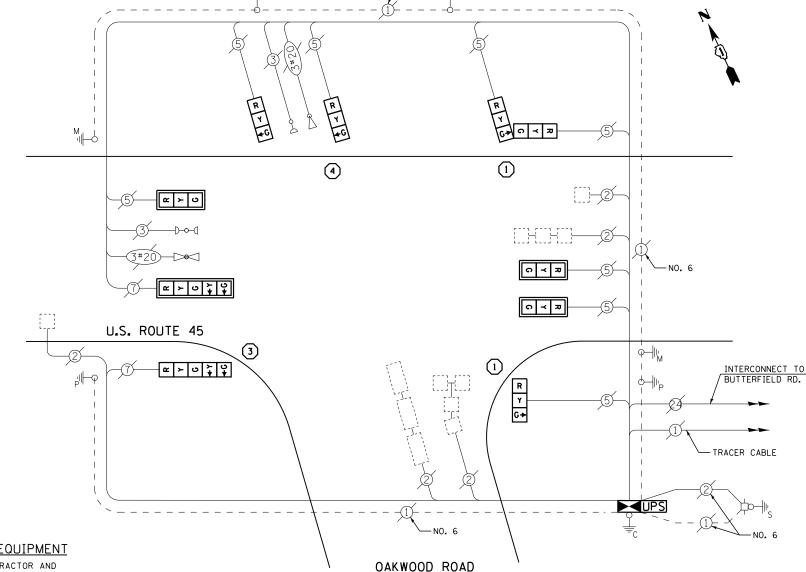
TOTAL =

ENERGY SUPPLY

CONTACT TERRI BLECK 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.



REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

CONTROLLER AND CABINET (COMPLETE)

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
2	EACH EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
ž	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
Ī	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
4 5	EACH	
5 * 1	EACH EACH	INDUCTIVE LOOP DETECTOR RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
[*] 1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
i	EACH	
Ī	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
* - 100	% COST TO	VILLAGE OF VERNON HILLS

CONSTRUCTION NOTES

CABLE PLAN

- 1) THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.
- 2) CONTRACTOR SHALL RELOCATE EXISTING FIBER OPTIC SPLICE BOX TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.
- 3) 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.

TS# 6641 VERNON HILLS

DESIGNED REVISED USER NAME = \$USER\$ N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\06641_CAB_LAKE.do DRAWN JDH REVISED CHECKED REVISED PLOT DATE = 3/28/2012 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY SECTION U.S. ROUTE 45 & OAKWOOD ROAD - CABLE PLAN, 2012-003 I LAKE 102 37 SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.



- 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.

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.

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS TYPE NO. LAMPS WATTAGE % OPERATIONS TOTAL WATTAGE INCAND. LED SIGNAL (RED) 17 85 1 35 0.50 10 25 0.25 (YELLOW) 1 35 63 10 (GREEN) 1 35 15 0.25 38 10 ARROW 1 35 12 0.10 10 25 PED. SIGNAL 1.00 50 CONTROLLER 100 100 1.00 100 25 ILLUM. SIGN 252 0.05 VIDEO SYSTEM 150 150 1.00 FLASHER LED

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DRIVE

VERNON HILLS, IL 60061

TOTAL =

496

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 1 EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. 1 EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	
1 EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	
1 FACH TRAFFIC SIGNAL POST CALVANIZED STEEL 16 FT	
2 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	
2 ĒACH PEDESTRIĀN SIĞNAL HÉAD, LED, 1-FACE, BRACKET MOUNTED 2 EACH PEDESTRIAN PUSH-BUTTON 3 EACH RELOCATE EXISTING SIGNAL HEAD	
3 EACH RELOCATE EXISTING SIGNAL HEAD	
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, 1-5 SECTION, BRACKET MOUNTED, RETR	OFIT
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	
2 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.

- EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH SIGNAL POST

TS# 6655 VERNON HILLS

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED - 5/4/12			U.S. RTE. 45 AND DEERPATH DRIVE	F.A.	SECTION (COUNTY T	OTAL	HEE1
N:\Projects3\12004\DesignCAD\Sheet File	s 12-001 Sheets SE Lake Co\06655_CAB_LAKE.dg		JDH	REVISED -	STATE OF ILLINOIS		CABLE PLAN & SCHEDULE OF QUANTITIES		2012-003 I	LAKE	102	38
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	CABLE PLAN & SCHEDULE OF QUANTITIES			С	ONTRACT	NO. 6	T41
	PLOT DATE = 5/7/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				

INTERCONNECT /EVERGREEN DR.	<u>TO</u>	
TRACER CABLE	10	
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	6 \$ \$ \$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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		NO. 6 GREEN
		GREEN
NO. 6	① DF	ERPATH DR.
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T T	NO. 6 PP	
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TRACER CABLE —	CABLE PLAN	
1		
	NECT TO VE. (COMMUTER	RETROFIT ALL EXISTING
STATION)		SIGNAL HEADS TO L.E.D.

2 EACH PEDESTRIAN PUSH-BUTTON



FILE NAME =

PHASE	1+	1.6		2 -	- 6			-				
MOVEMENT (NORTH)	11			116							123	
INTERVAL		2	3	4	5A	5B	6	7A	79	8A	88	45
CHANGE TO PHASE	/	2+6	/			4	/	24	-5	21	-6	
U.S. ROUTE 45 SOUTH-EASTBOLED FAR RIGHT SIGNAL	G	G	G	G	Y	R	R	R	R	R	R	R
U.S. FIOUTE 45 SOUTH-EASTBOUND END MAST ARM AND FAR LEFT SIGNALS	G G	G — Y	G	G	Υ	R	R	R	R	R	R	R
U.S. ROUTE 45 NORTH-WESTBOUND FAR RIGHT SIGNAL END MAST ARM AND FAR LEFT SIGNALS	R	R	G	G	Υ	R	R	R	R	R	I R	R
DEERPATH DRIVE SOUTHBOUND NEAR AND FAR RIGHT SIGNALS	R G	R Y	R	R	R	R	G	Y G-	R G	Ϋ́	R	R
DEERPATH DRIVE SOUTHBOUND FAR LEFT AND CENTER SIGNAL	R	R	R	R	R	R	G	Υ	B	Υ	R	R
PEDESTRIAN CROSSING ON NORTH SIDE OF U.S. ROUTE 45	DW	DW	* W	FL DW	DW	DW	DW	DW	ĎΜ	DW	DW	DARK

NOTE: PHASES 2 + 6 SHALL BE PLACED ON RECALL

PROPOSED EMERGENCY VEHICLE PREEMP	TION SE	QUENCE	or or	ERATIO	И		2005 200			[PRE- EMPTOR	PRE - EMPTOR 4
FROM NORMAL INTERVAL	1		1	3_		3		i	5	6	$\geq \leq$	$\geq \leq$
EMERGENCY VEHICLE PRE-EMPTION	2000											7
SEQUENCE INTERVAL	1A	18	10	10	1E	1F	1G	1H	1,1	1K	2	3_
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION INTERVAL	2	10	3	2	ıF	1G	3	1.5	2	3	\Q	\Diamond
U.S. ROUTE 45 SOUTH-EASTBOUND										ř.	1	
FAR RIGHT SIGNAL '	G	Υ	R	G	G	Y	R	R	R	_ R	G	2
U.S. ROUTE 45 SOUTH-EASTBOUND	G											
END MAST ARM AND FAR LEFT SIGNALS	<u>→</u> Y	Y	R	G	G	Y	R	R	15	R	G	R
U.S. ROUTE 45 NORTH-WESTBOUND					1	i				!		
FAR RIGHT SIGNAL	R	R	R	G	G	Y	R	R	R	R	G	R
END MAST ARM AND FAR LEFT SIGNALS							1			!		
DEERPATH DRIVE SOUTHBOUND	R	R	R							1	1000	
NEAR AND FAR RIGHT SIGNALS	Y	G	G	R	R	R	R	Y	15	G	R	G
DEERPATH DRIVE SOUTHBOUND			1				0.00			[
FAR LEFT AND CENTER SIGNAL	R	R	Ŕ	R	R	- FK	R	Y	-3	G	K	G
PEDESTRIAN CROSSING	5.4	5.00	Dill	FL.	** FL	DV	DW	DW	DW	DW	1 DW	DW
ON NORTH SIDE OF U.S. ROUTE 45	OW.	DW	DW	DW	I DW	DW	L DW	1 UW	; UW	Un	TIME	1744

♦ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANGE INTERVAL TO RESUME THE HOPMAL SEQUENCE OF OMERATION OR PROPER CLEARANCE INTERVAL 1: DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY INTERVAL 2 OR 3 IS TERMINATED.

PROPOSED RAILROAD PRE-EMPTION SECU	JENCE C	F OPER	HOIFA			PRE-E	MPTOR	PRE-E	MP FOR	PRE-EMPTOR 2				
FROM NORMAL INTERVAL	1		3	1	6									
FROM EMERGENCY VEHICLE PRE-EMPTION SEQUENCE INTERVAL NUMBER	\times	\geq	\leq	\geq	\leq		2	3				·	····	CLEAR TO
RAILROAD PREEMPTION INTERVAL	1A	1B	10	10	16	1F	1G	1H	13	2	_ 3	- 4 -	5	NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION INTERVAL	2	10	2	1E	2	1G	2	1.J	2	3	4	5	6	Δ
U.S. ROUTE 45 SOUTH-EASTBOURD FAR RIGHT SIGNAL	G	G	G	R	R	G	G	R	R	G	Y_	R	R	Δ
U.S. ROUTE 45 SOUTH-EASTBOUND END MAST ARM AND FAR LEFT SIGNALS	G G	G	G	R	R	G	G	R	R	G G	Y	R	R	Δ
U.S. ROUTE 45 NORTH-WESTBOUND FAR RIGHT SIGNAL END MAST ARM AND FAR LEFT SIGNALS	R	Y	R	R	R	Y	R	R	F?	R	R	R	R	Δ
DEERPATH DRIVE SOUTHBOUND NEAR AND FAR RIGHT SIGNALS	R Y—	R	R	Y	R	R	R	Y	R	R	R	R	G	Δ
DEERPATH DRIVE SOUTHBOUND FAR LEFT AND CENTER SIGNAL	R	R	R	Y	R	R	R	Y	ί₹	R	R	R	G	Δ
PEDESTRIAN CROSSING ON NORTH SIDE OF U.S. ROUTE 45	DW	** FL DW	DW	DW	DW	DW	DW	DW	DW	UW	DW	DW	wa	Δ
													HOLD	

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

TS# 6655 VERNON HILLS

COUNTY TOTAL SHEET NO.

LAKE 102 39 SECTION COUNTY U.S. RTE. 45 AND DEERPATH DRIVE - SEQUENCE OF OPERATION, 2012-003 I RAILROAD SEQUENCE OF OPERATION & EVP SEQUENCE CONTRACT NO. 60T41

* 10 APPEAR ONLY UPON PUSHBUTTON ACTUATION.

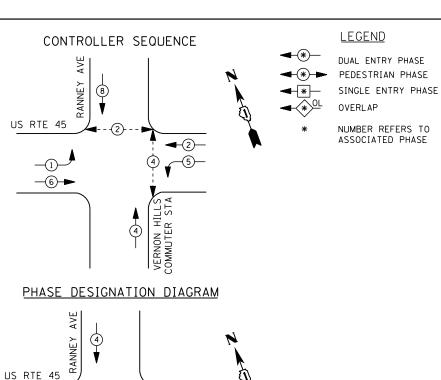
SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA.

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

USER NAME = \$USER\$ DESIGNED -REVISED N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\06655_CAB_LAKE CHAPDRAWN REVISED CHECKED REVISED REVISED PLOT DATE = 3/28/2012 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**





EMERGENCY VEHICLE PREEMPTION SEQUENCE

VERNON HILLS COMMUTER STA

4

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	

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

ELECTRICAL	SEKALCE	KEUUIK	EMEN I S	
NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
	INCAND.	LED		WATTAGE
13	1 35	17	0.50	111
13	1 35	25	0.25	81
13	1 35	15	0.25	49
8	1 35	12	0.10	10
4	90	25	1.00	100
1	1 00	1 00	1.00	100
	252	25	0.05	
	150	-	1.00	-
	13 13 13 13	NO. LAMPS WAT INCAND. 13 135 13 135 13 135 4 90 1 100 252	NO. LAMPS WATTAGE INCAND. LED 13 135 17 13 135 25 13 135 15 8 135 12 4 90 25 1 100 100 252 25	INCAND. LED 13 135 17 0.50 13 135 25 0.25 13 135 15 0.25 8 135 12 0.10 4 90 25 1.00 1 100 100 1.00 252 25 0.05

ENERGY COSTS-

-(3)**-**►

BILLED TO: VILLAGE OF VERNON HILLS
290 EVERGREEN DRIVE

VERNON HILLS, IL 60061

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239
COMMONWEALTH EDISON

TOTAL =

451

QUANTITY UNIT ITEM

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4 EACH PEDESTRIAN PUSH-BUTTON
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
6 EACH SIGNAL HEAD, LED, 1-FACE, 3-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
2 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

R R Y G Y G G G ↑ ↑ n ≺ ਸ਼ NO. 6-U.S. ROUTE 45 **♣** ♣ ० ≺ ਸ਼ ~ > U \ \ \ INTERCONNECT TO DEERPATH DRIVE INTERCONNECT TO FAIRWAY DRIVE/ R PRAIRIE AVENUE B TRACER CABLE TRACER CABLE REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **VERNON HILLS** THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND COMMUTER STATION SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE. CABLE PLAN RETROFIT ALL EXISTING EACH PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON SIGNAL HEADS TO L.E.D. EACH

SCHEDULE OF QUANTITIES

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

TS# 6657 VERNON HILLS

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet File s 12-001 Sheets SE Lake Co\06657_CAB_LAKE.do DRAWN JDH REVISED CHECKED KMM REVISED PLOT DATE = 3/28/2012 DATE REVISED

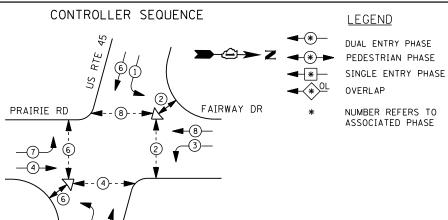
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

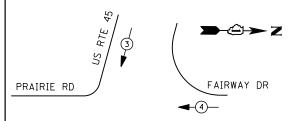
					ON – CABLE PLAN & EVP SEQUENCE	F.
SCALE: N.T.S.	SHEET NO.	OF	SHEETS		TO STA.	┺
JUALE: N. 1.5.	SHEET NO.	UF	SULE 12	SIA.	IU SIA.	1

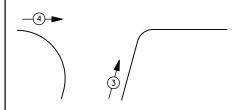
RANNEY AVENUE

A. ΓĒ.	SECTI	ON		COUNTY	TOTAL SHEETS	SHEET NO.
	2012-0	03 I		LAKE	102	40
				CONTRACT	T NO. 6	OT41
	I	LLINOIS	FED. A	D PROJECT		









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	-

	I.	D.	0.	Τ.		
TRAFFIC	SIG	NAL	I١	NSTAL	LATION	
ELECTRI CAL	_ SE	RVI	CE	REQU	IREMENT	S

ELECTRICAL SERVICE REGULATION					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	22	1 35	17	0.50	187
(YELLOW)	22	1 35	25	0.25	138
(GREEN)	22	1 35	15	0.25	83
ARROW	16	1 35	12	0.10	19
PED. SIGNAL	12	90	25	1.00	300
CONTROLLER	1	1 00	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	1	150	-	1.00	150
FLASHER LED					

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DRIVE

VERNON HILLS, IL 60061

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239 COMMONWEALTH EDISON SCHEDULE OF QUANTITIES

QUANTITY UNIT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

12 EACH PEDESTRIAN SIGNAL HEAD 9 EACH PEDESTRIAN PUSH-BUTTON

RANNEY AVENUE TRACER CABLE U.S. ROUTE 45 ᆂ⊸Ĝ-≻z ∪ ••• R > G + > G PRAIRIE RD. .H.H.H. FAIRWAY DR. INTERSECTION AND-SAMPLING (SYSTEM) DETECTORS CABLE PLAN

INTERCONNECT TO

JANIIII	UNII	<u>11EM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
7	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMEF
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 3-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
9	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TS# 6658 **VERNON HILLS**

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\06658_CAB_LAKE.dgr DRAWN JDH REVISED CHECKED REVISED PLOT DATE = 3/28/2012 DATE REVISED

TOTAL =

977

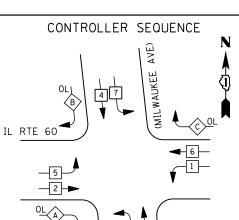
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION U.S. ROUTE 45 & BUFFALO GROVE RD./FAIRWAY DR. - CABLE PLAN 2012-003 I SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE SHEET NO. OF SHEETS STA.

COUNTY LAKE 102 41 CONTRACT NO. 60T41

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





LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE

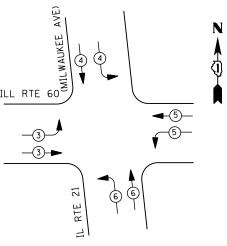
SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

IGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVERL	.AP	PERMISS	IVE	PROTECTED

OVERL	AP	PERMISS:	IVE	PROTECTED
LETTER	₹	PHASE		PHASE
Α	=	2	+	3
В	=	4	+	5
۲	=	6	+	7

PHASE DESIGNATION DIAGRAM



THE AVEE AV	N (1)
-3- -3-	
11. RTE 21	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6		
MOVEMENT	-					

	Ι.	D.	0.	Т.	
TRAFFIC	SIGN	NAL	I١	ISTALLATION	
ELECTRI CAL	. SEF	₹VI	CE	REQUIREMENTS	

	ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	23	1 35	17	0.50	196		
(YELLOW)	23	1 35	25	0.25	144		
(GREEN)	23	1 35	15	0.25	86		
ARROW	12	1 35	12	0.10	14		
PED. SIGNAL	0	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 =	540		

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

INTERCONNECT TO EAST HAWTHORN ENT.

TRACER CABLE

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

TRACER CABLE -

 $(\sqrt{-1})^2$ (CX/X)

TS# 6700

INTERCONNECT TO RIVER TREE COURT

FILE NAME = DESIGNED REVISED N:\Projects3\12004\DesignCAD\Sheet File s 12-001 Sheets SE Lake Co\06700_CAB_LAKE.do DRAWN JDH REVISED CHECKED KMM REVISED REVISED PLOT DATE = 3/28/2012 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INTERCONNECT TO HAWTHORN #6

NO. 6-

SECTION IL RTE. 60 (TOWNLINE RD.) & IL RTE. 21 (MILWAUKEE AVE.) – CABLE PLAN 2012-003 I SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF X SHEETS STA.

CABLE PLAN

ILLINOIS ROUTE 21 (MILWAUKEE AVENUE)

-TRACER CABLE

ILLINOIS ROUTE 60

VERNON HILLS COUNTY TOTAL SHEET NO.

LAKE 102 42 COUNTY

QUANTITY





OL B

IL RTE 21

DRIVE #6

LEGEND

W DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OL OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

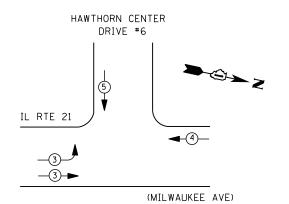
6 (MILWAUKEE AVE)

RIGHT TURN OVERLAP PHASE DESIGNATION
OVERLAP PERMISSIVE PROTECTED
LETTER PHASE PHASE

B = 4 + 5

PHASE DESIGNATION DIAGRAM

THASE BESTONATION BIAGNAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4	5		
MOVEMENT		-			

		I. D. 0	. Т.							
	TRAFFIC S	I GNAL I	NSTALLA	TION						
	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	2	1 35	12	0.10	10					
PED. SIGNAL	0	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 =	351					

290 EVERGREEN DRIVE
VERNON HILLS, IL 60061

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

ENERGY COSTS-

847-816-5239 COMMONWEALTH EDISON

BILLED TO: VILLAGE OF VERNON HILLS

HAWTHORN CENTER DRIVE #6 INTERCONNECT TO /HAWTHORN CENTER DRIVE #7 RING DRIVE INTERCONNECT TO ILL. RTE. 60 (TOWNLINE RD.) TRACER CABLE TRACER CABLE ÷ (*) (c) (-) (d) ILLINOIS ROUTE 21 (MILWAUKEE AVENUE)

CABLE PLAN

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

TS# 6720 VERNON HILLS

								12::::0:1 :::2220
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE. 21 (MILWAUKEE AVE.) & HAWTHORN CENTER. DR. #6 -CABLE PLAN. RTE.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\06720_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	,	2012-003 I	LAKE 102 43
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE		CONTRACT NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID	PROJECT





OL B

IL RTE 21

HAWTHORN CENTER

DRIVE #7

RING DRIVE

DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OUVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

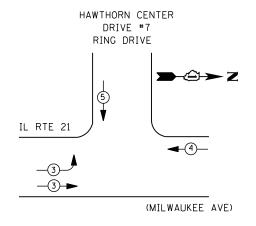
 RIGHT
 TURN
 OVERLAP
 PHASE
 DESIGNATION

 OVERLAP
 PERMISSIVE
 PROTECTED

 LETTER
 PHASE
 PHASE

 B
 =
 4
 +
 5

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4	5			
MOVEMENT	1	•	l l			

	I. D. O	. T.							
TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL	SERVI CE	REQUIR	EMENTS						
NO. LAMPS	WAT	% OPERATIONS	TOTAL						
	INCAND.	LED		WATTAGE					
13	1 35	17	0.50	111					
13	1 35	25	0.25	81					
13	1 35	15	0.25	49					
4	1 35	12	0.10	5					
0	90	25	1.00						
1	100	1 00	1.00	100					
	252	25	0.05						
	150	-	1.00	1					
	TRAFFIC S ELECTRICAL NO. LAMPS 13 13 13 13	TRAFFIC SIGNAL I ELECTRICAL SERVICE NO. LAMPS WAT INCAND. 13 135 13 135 13 135 0 90 1 100 252	Columbia	TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS NO. LAMPS WATTAGE INCAND. LED 13 135 17 0.50 13 135 25 0.25 13 135 15 0.25 4 135 12 0.10 0 90 25 1.00 1 100 100 1.00 252 25 0.05					

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS

290 EVERGREEN DR. VERNON HILLS, IL 60061

TOTAL =

ENERGY SUPPLY -

CONTACT TERRI BLECK
PHONE 847-816-5239
COMMONWEALTH EDISON

NO. 6-TRACER CABLE NO. 14 TRACER CABLE NO. 14-INTERCONNECT TO NORTH HOLLISTER PKWY HAWTHORN CENTER DRIVE #6 (SOUTH HAWTHORN ENT.) NO. 6-ILLINOIS ROUTE 21 (MILWAUKEE AVENUE)

HAWTHORN CENTER

DRIVE #7

RING DRIVE

→②→ Z

CABLE PLAN

SCHEDULE OF QUANTITIES

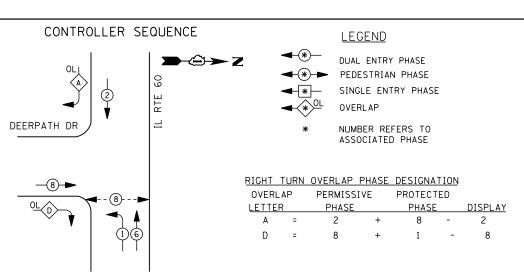
QUANTITY UNIT ITEM

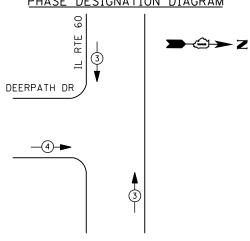
1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 6725 VERNON HILLS

	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTF 21 /MILV	VALIKEE AV	F \ 2. I	IAWTHOR	N CENTER	DR. #7-CABLE PLAN.	F.A.	SECTION	COUNTY	TOTAL	SHEET
	N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\06725_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	,		,			•		2012-003 I	LAKE	102	44
		PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	20HEDOLE OF	QUANTITIES	o, PHAS	E DESIG	N. DIAGKAIVI	& EVP SEQUENCE			CONTRACT		T41
l		PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		







EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

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

	ELECTRICAL	SERVICE	REGULA	EMENIS	
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	12	1 35	12	0.10	14
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 =	368

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

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ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS

290 EVERGREEN DR. VERNON HILLS, IL 60061

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

ENERGY SUPPLY -

FILE NAME =

CONTACT TERRI BLECK PHONE 847-816-5239 COMMONWEALTH EDISON

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

EACH PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH

SCHEDULE OF QUANTITIES

REVISED

REVISED

REVISED

REVISED

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

> TS# 6870 VERNON HILLS

> > 102 45

NO. 60T41

- TRACER CABLE

→�→ Z

RYG

OZ-



			VERNO	٧
ILLINOIS ROUTE 60 & DEERPATH DRIVE – CABLE PLAN	F.A. RTE.	SECTION	COUNTY	S
SCHEDULE OF QUANTITIES, PHASE DESIGN, DIAGRAM & EVP SEQUENCE		2012-003 I	LAKE	
SCHEDOLL OF GOARTHES, PHASE DESIGN. DIAGRAM & EVE SEGULINGE			CONTRACT	
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	_

CABLE PLAN

INTERCONNECT TO LAKEVIEW PARKWAY

INTERCONNECT TO

ILLINOIS ROUTE 60

ASPEN STREET

TRACER CABLE

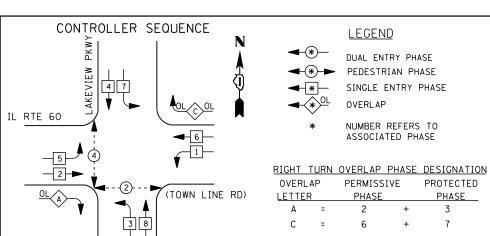
INTERCONNECT TO PHILLIP ROAD

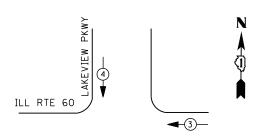
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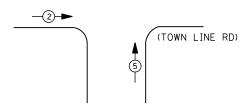
NO. 6-

DEERPATH DRIVE









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EME	RGENCY VEH	ICLE PREEI	MPTORS	
EMERGENCY VEHICLE PREEMPTOR	2	3	4	5
MOVEMENT	-	+	•	•

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	20	1 35	17	1 00	170
(YELLOW)	20	1 35	25		125
(GREEN)	20	1 35	15		75
ARROW	8	1 35	12		10
PED. SIGNAL	4	90	25		100
CONTROLLER	1	100	100		100
ILLUM. SIGN		252	25		
VIDEO SYSTEM	1	150	-		150
FLASHER LED					

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS

290 EVERGREEN DR.

VERNON HILLS, IL 60061

ENERGY SUPPLY -

CONTACT TERRI BLECK
PHONE 847-816-5239

847-816-5239 COMMONWEALTH EDISON

TOTAL =

730

SCHEDULE OF QUANTITIES

QUANTITY	<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

-INTERCONNECT TO HAWTHORN SHOPPING CENTER WEST ENT. #3 INTERCONNECT TO DEERPATH DRIVE RYG TRACER CABLE TRACER CABLE -ILL. RTE. 60 (TOWN LINE RD.) 7-2011 NO. 6-**≯**♥ CABLE PLAN NOTES: PUSH BUTTON "A" SHALL PLACE A CALL IN PHASED 2 AND 4

LAKEVIEW PARKWAY

HAWTHORN CENTER #1

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.

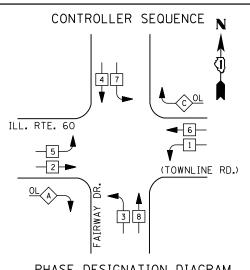
4 EACH PEDESTRIAN SIGNAL HEAD

3 EACH PEDESTRIAN PUSH-BUTTON

TS# 6875 VERNON HILLS

							·	
FILE NAME =		USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE. 60 & HAWTHORN CNTR. DR #1 /LAKEVIEW PKWY - CABLE PLAN, F.A. SECTION CO.	OUNTY TOTAL SHEET
N:\Projects3\12004\D	DesignCAD\Sheet Files	\12-001 Sheets SE Lake Co\06875_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	2012 207 1	LAKE 102 46
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	I SURFULIE DE DUANTILIES PRASE DESIGN DIAGRANI & EVE SEUDENGE	ONTRACT NO. 60T41
		PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. ILLINOIS FED. AID PRO	



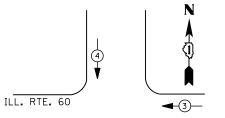


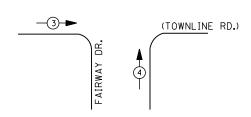
RIGHT	TURN	OVERLAP	PHASE	DESIGNATIO	٨
OVERI	_AP	PERMISS	IVE	PROTECTED	
LETTE	:R	PHASE		PHASE	
Α	=	2	+	3	
C	_	6	_	7	

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

PHASE DESIGNATION DIAGRAM





EMERGENCY VI	EHICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% 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		90	25	1.00					
CONTROLLER	1	1 00	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ı	1.00					
FLASHER LED									
TOTAL = 480									

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DR. VERNON HILLS, IL 60061

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

LAKEVIEW PARKWAY

NUMBER REFERS TO ASSOCIATED PHASE

EMERGENCY VEHICLE PREEMPTION SEQUENCE

HAWTHORN SHOPPING CENTER WEST ENT. #3 -TRACER CABLE INTERCONNECT TO INTERCONNECT TO TRACER CABLE HAWTHORN SHOPPING CENTER ENTRANCE DR. #4 м⊪ф (TOWNLINE RD.) ILL. RTE. 60

CABLE PLAN

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u>

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

SCALE: N.T.

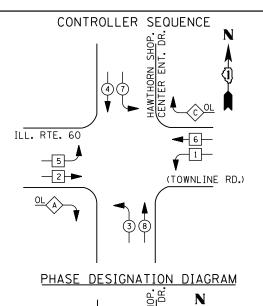
TS# 6880 VERNON HILLS

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED	-
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\06880_CAB_LAKE.dgr	DRAWN -	JDH	REVISED	-
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED	-
	PLOT DATE = 3/28/2012	DATE -		REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL RTE. 60 & HA	AWTHORN	CENTE	R DR. #3	3 /FAIRWAY	/ DR. – CABLE PLAN,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDIILE DE (OLIANTITIES	рндς	F DESIG	N DIAGRAM	1 & EVP SEQUENCE		2012-003 I	LAKE	102	47
SOULDOLL OF	COANTITIES	, 1 1170	L DLJIG	V. DIAGITATI	I & EVI SECOLINOL			CONTRAC	T NO. 6	50T41
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		





RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED LETTER PHASE PHASE A = 2 + 3

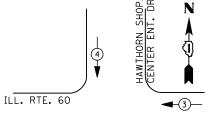
LEGEND

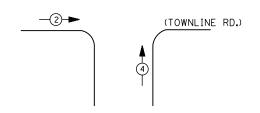
DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	2	3	4			
MOVEMENT		-	 			

ELECTRICAL SERVICE	REQUIREMENTS
TRAFFIC SIGNAL I	NSTALLATI ON
I. D. 0	D. T.

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	1 00	1 00	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM		150	-	1.00	1	
FLASHER LED						
				TOTAL =	415	

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS

290 EVERGREEN DR.
VERNON HILLS, IL 60061

ENERGY SUPPLY -

FILE

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

HAWTHORN SHOPPING CENTER ENTRANCE DR.#4 INTERCONNECT TO HAWTHORN SHOPPING CENTER EAST ENT.#5 TRACER CABLE R -TRACER CABLE INTERCONNECT TO HAWTHORN SHOPPING CENTER WEST ENT.#3 (TOWNLINE ROAD) NO. 6-(GREEN) ILL. RTE. 60 TOWNLINE COMMONS SHOPPING CENTER ENT. UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER CABLE PLAN

> TS# 6885 VERNON HILLS

ILE NAME = USER NAME = \$USER\$ DESIGNED - DW REVISED -		IL RTE. 60 AT HAWTHORN SHOPPING CENTER ENT. DR. #4 - CABLE PLAN,	A. SECTION COUNTY TOTAL SHEET
x\Projects3\12004\DesignCAD\Sheet Files\12-00 Sheets SE Loke Co\06885.CAB.LAKE.dgr DRAWN - JDH REVISED -	STATE OF ILLINOIS	· ·	2012-003 I LAKE 102 48
PLOT SCALE = \$SCALE\$ CHECKED - KMM REVISED -	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE	
PLOT DATE = 3/28/2012		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT





(TOWNLINE RD.)

 \bigcirc IL RTE 60

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

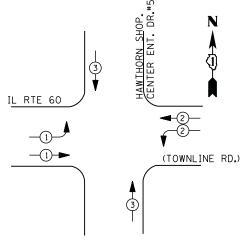
OVERL	AP	PERMISSIVE		PROTECTED		
LETTER	?	PHASE		PHASE		DISPLAY
Α	=	2	+	3	-	2
В	=	4	+	5	-	4
С	=	6	+	7	-	6
D	=	8	+	1	-	8

PHASE DESIGNATION DIAGRAM

38

2

OL A



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	1	2	3		
MOVEMENT					

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)	19	1 35	17	0.50	162
(YELLOW)	19	1 35	25	0.25	119
(GREEN)	19	1 35	15	0.25	71
ARROW	24	1 35	12	0.10	29
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
l				TOTA:	

ENERGY COSTS-

FILE NAME =

BILLED TO: VILLAGE OF VERNON HILLS

TOTAL =

DESIGNED

CHECKED

JDH

KMM

DRAWN

DATE

290 EVERGREEN DR. VERNON HILLS, IL 60061

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

PLOT DATE = 3/28/2012

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<u>QUANTITY</u>

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

TS# 6890 VERNON HILLS

REV!	VISED -		II RTE 60 AT H	AWTHORN S	HOPPING	CENTER	ENT. DR. #5 – CABLE PLAN	F.A.	SECTION	COUNTY	TOTAL	SHEET
REV!	VISED -	STATE OF ILLINOIS							2012-003 I	LAKE	102	49
REV!	VISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES & PHASE DESIGN. DIAGRAM & EVP SEQUENC							CONTRAC	T NO. 6	OT41
REVI	VISED -		SCALE: N.T.S.	SHEET NO.	OF SHE	ETS STA	A. TO STA.		ILLINOIS FED. A	AID PROJECT		

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SIM-OH

(c) (c)

الله RTE. 60 عنان

HAWTHORN SHOPPING CENTER ENTRANCE DR.#5

CABLE PLAN

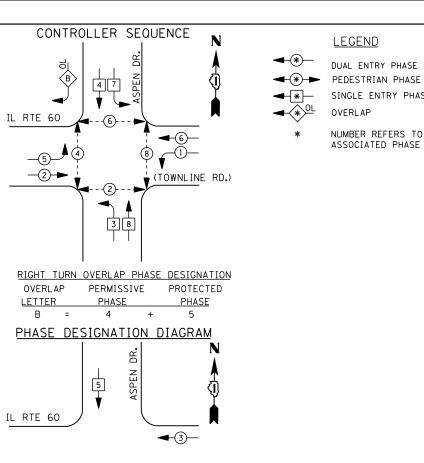
(TOWNLINE RD.)

SCHEDULE OF QUANTITIES

<u>UNIT</u>

EACH EACH EACH





4

-③**-**►

EMERGENCY VEHICLE PREEMPTION SEQUENCE

(TOWNLINE RD.)

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4	5					
MOVEMENT	+	†	—					

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

	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	12	1 35	12	0.10	14					
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 =	648					

ENERGY COSTS-

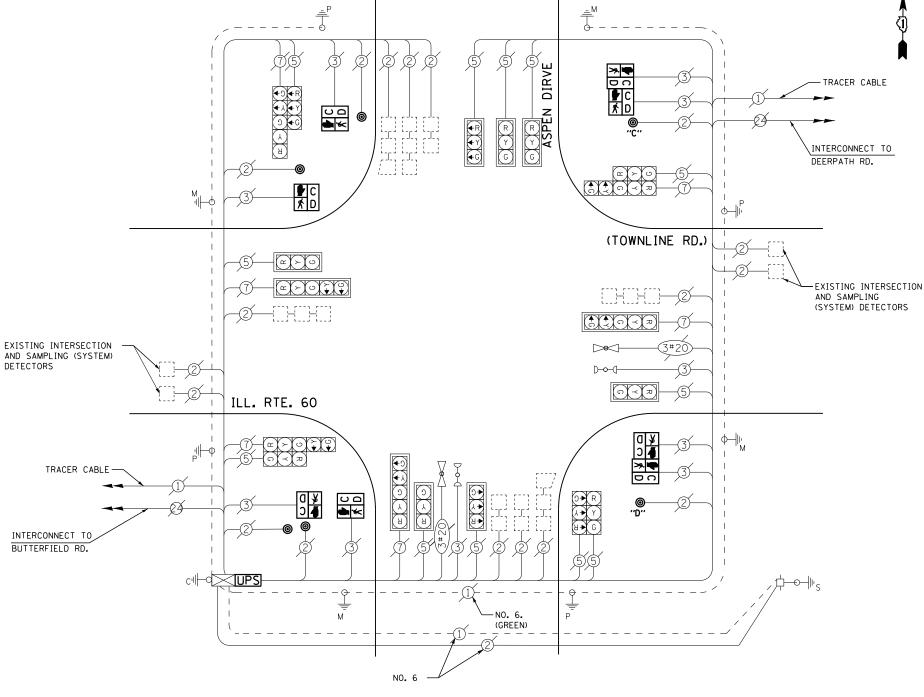
BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DRIVE VERNON HILLS, IL 60061

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

SINGLE ENTRY PHASE



CABLE PLAN

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

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> <u>ITEM</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
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTABLE POWER SUPPLY, SPECIAL
PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH EACH EACH EACH EACH EACH

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

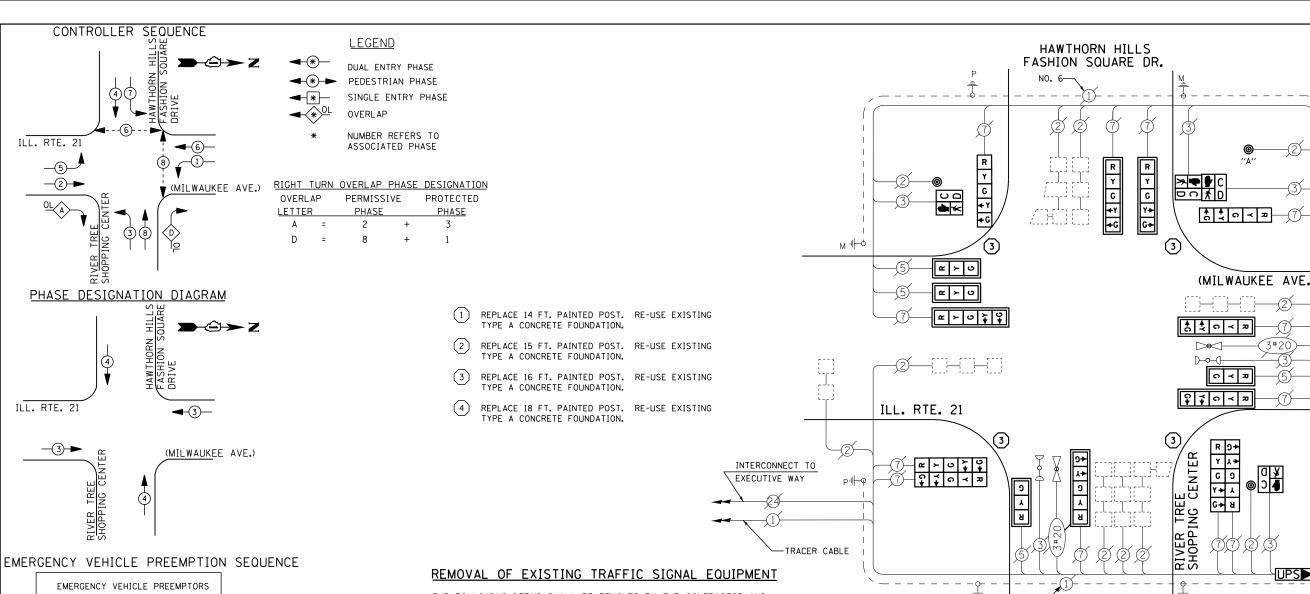
EACH PEDESTRIAN PUSH-BUTTON

TS# 6900 **VERNON HILLS**

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		ILLINOIS BOLIT	60 (TOWN	JIINE RI	n \ ANID	ASPEN DRI	IVE – CABLE PLAN,	F.A.	SECTION	COUNTY	TOTAL	SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\06900_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	1	•		,		· · · · · · · · · · · · · · · · · · ·		2012-003 I	LAKE	102	50
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	2CUEDOFE OL	UUAN IIIIES	, РПАЗЕ	DESIG	N. DIAGRAIN	& EVP SEQUENCE			CONTRAC	T NO. (OT41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

A. TĒ.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
	2012-003 1		LAKE	102	50			
		CONTRACT	NO. 6	OT41				
	ILLINOIS FED. AID PROJECT							





MOVEMENT	—	1
EMERGENCY VEHICLE PREEMPTOR	3	4
EMERGENCY VI	EHICLE PRE	EMPTORS

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	24	1 35	12	0.10	29
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	1
FLASHER LED					
				TOTAL =	525

ENERGY COSTS-

FILE NAME =

BILLED TO: VILLAGE OF VERNON HILLS

290 EVERGREEN DRIVE

VERNON HILLS, IL 60061

ENERGY SUPPLY - CONT

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

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\11615_CAB_LAKE.dgr

COMMONWEALTH EDISON

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

КММ

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 12 EACH SIGNAL HEAD, 5 - SECTION 10 EACH TRAFFIC SIGNAL BACKPLATE

4 EACH STEEL POST

3 EACH PEDESTRIAN PUSH-BUTTON 4 EACH PEDESTRIAN SIGNAL HEAD

1 EACH CONTROLLER AND CABINET (COMPLETE)

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
Ī	EACH	TRANSCEIVER - FIBER OPTIC
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
ē	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4 2 6 2 2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
ī	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
Ť	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ī	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET. SPECIAL
i	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL
÷,	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING
3	LACII	LEBESTITIAN TOSIS BOTTON, NON-EATONING

* - 100% COST TO VILLAGE OF VERNON HILLS

REVISED

REVISED

REVISED

REVISED

CONSTRUCTION NOTES

CABLE PLAN

NOTE: PUSHBUTTON "A" TO PLACE CALLS IN PHASES 6 AND 8.

- 1) THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
- 2) CONTRACTOR SHALL RELOCATE EXISTING FIBER OPTIC SPLICE BOX TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.
- 3) 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.
- 4) UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

TS# 11615 VERNON HILLS

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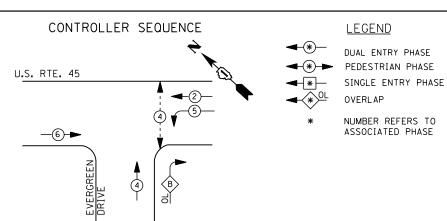
TRACER CABLE

INTERCONNECT TO
ILL. RTE. 60

TE OF ILLINOIS	IL RTE. 21 AT HA	AWTHORN I	HILLS/R	IVERTREI	SHOPPING	CNTRCABLE PLAN,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	SCHEDULE OF	DITANTITIES	PHASI	F DESIGN	I. DIAGRAM	& EVP SEQUENCE		2012-003 I	LAKE	102	51	l
T OF TRANSPORTATION			1 IIAOI		i. Diadilaw	G EVI GEGGENGE			CONTRAC	「 NO. 6	OT41	l
	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT			i

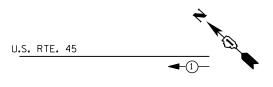
STATE OF DEPARTMENT OF

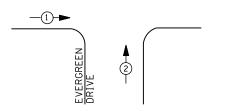




RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED PHASE PHASE DISPLAY LETTER 5 - 4

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	+	A

	TRAFFIC SIGNAL INSTALLATION									
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	11	1 35	1 7	0.50	94					
(YELLOW)	11	1 35	25	0.25	69					
(GREEN)	11	1 35	15	0.25	41					
ARROW	8	1 35	12	0.10	10					
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	ļ	1.00	1					
FLASHER LED										
				TOTAL =	364					

I. D. O. T.

ENERGY COSTS-

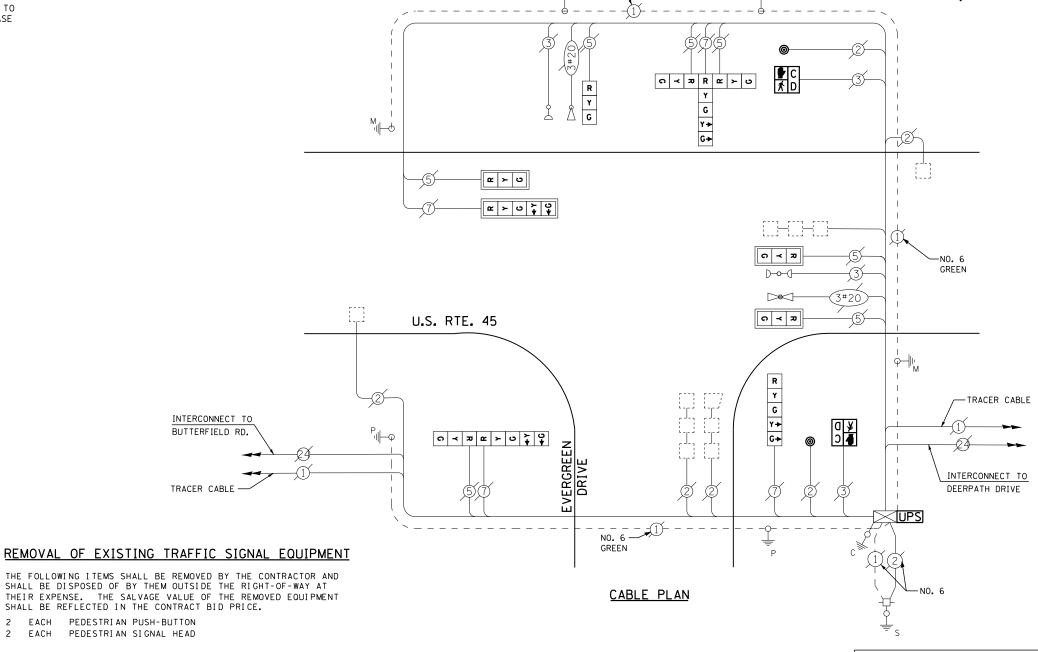
BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DRIVE VERNON HILLS, IL 60061

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

EACH



SCHEDULE OF QUANTITIES

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

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

RETROFIT ALL EXISTING

SIGNAL HEADS TO L.E.D.

TS# 21070

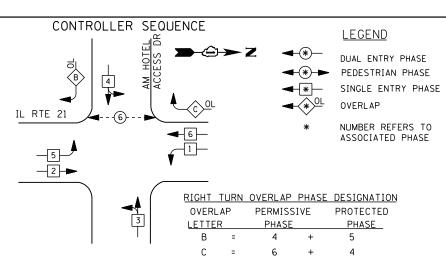
DESIGNED REVISED FILE NAME = USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet File s 12-001 Sheets SE Lake Co\21070_CAB_LAKE.do DRAWN JDH REVISED CHECKED КММ REVISED DATE REVISED PLOT DATE = 3/28/2012

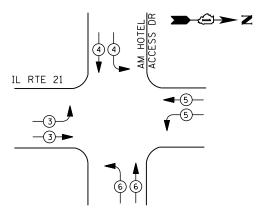
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY U.S. ROUTE 45 AT EVERGREEN DRIVE - CABLE PLAN, 2012-003 I LAKE 102 52 SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.

VERNON HILLS







EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6				
MOVEMENT		<u> </u>						

		I. D. O	. T.									
	TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS												
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL							
		INCAND.	LED		WATTAGE							
SIGNAL (RED)	19	1 35	17	0.50	162							
(YELLOW)	19	1 35	25	0.25	119							
(GREEN)	23	1 35	15	0.25	87							
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	1							
FLASHER LED												
				TOTAL =	528							

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS

290 EVERGREEN DR. VERNON HILLS, IL 60061

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239
COMMONWEALTH EDISON

TERRI BLECK
847-816-5239

SCHEDULE OF QUANTITIES

EXISTING INTERCONNECT

TO CORPORATE WOODS PKWY.

TRACER CABLE

≯ ■ C

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

CABLE PLAN

AMERICAN HOTEL

ACCESS DR.

⊃ <u>0</u>

ILL ROUTE 21

TS# 21409 VERNON HILLS

-TRACER CABLE

EXISTING INTERCONNECT

TO CDW DR.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTF 2	1 AT AMER	ICAN I	INTEL /	CCESS DR -	- CABLE PLAN	F.A.	SECTION	COUNTY	TOTAL	SHEE.	, T
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\21409_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS							1,112	2012-003 I	LAKE	102	53	_
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	20HEDOLE OF	QUANTITIES	, РНАЗ	E DESIG	IN. DIAGKAIVI	& EVP SEQUENCE			CONTRAC	T NO.	60T41	ī
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT			_



ILL. RTE. 21

5



DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

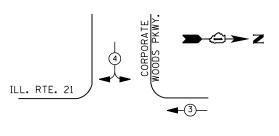
LEGEND

NUMBER REFERS TO ASSOCIATED PHASE

-2-**→** (MILWAUKEE AVE.)

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED LETTER PHASE 6

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

		I. D. O.			
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATI	ONS
		INCAND.	LED		

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								

ENERGY COSTS-

FILE NAME =

BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DRIVE VERNON HILLS, IL 60061

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\21410_CAB_LAKE.dg

847-816-5239 COMMONWEALTH EDISON

TOTAL =

332

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

SCHEDULE OF QUANTITIES

REVISED

REVISED

REVISED

REVISED

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
5	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
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

* - 100% COST TO VILLAGE OF VERNON HILLS

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.

CONTROLLER AND CABINET (COMPLETE) FACH EACH TRAFFIC SIGNAL BACKPLATE

CORPORATE WOODS PKWY NO. 6 GREEN -TRACER CABLE TRACER CABLE γ γ INTERCONNECT TO \INTERCONNECT TO WOODLANDS PARKWAY AMERICAN HOTEL REGISTER DR. A A C X R R Y O A D ILL. RTE. 21 | c | > | v | t | t | (MILWAUKEE AVE.) n ≺ x 8 a ≻ v NO. 6 GREEN RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D CABLE PLAN

CONSTRUCTION NOTES

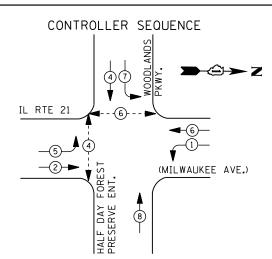
- 1) THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
- 2) CONTRACTOR SHALL RELOCATE EXISTING FIBER OPTIC SPLICE BOX TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.
- 3) CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

TS# 21410 VERNON HILLS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY SECTION IL RTE 21 (MILWAUKEE AVE) AND CORPORATE WOODS PKWY-CABLE PLAN, RTE. LAKE 102 54 2012-003 I SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.



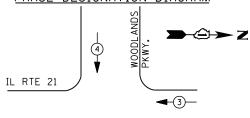


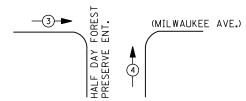
LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	1

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

ELECTRICAL SERVICE REGUINEMENTS								
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	12	1 35	12	0.10	14			
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		150	-	1.00				
FLASHER LED								
				TOTAL =	455			

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DRIVE VERNON HILLS, IL 60061

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

INTERCONNECT TO U.S. RTE. 45 (OLD HALF DAY ROAD)

NO. 62.5/125. 12F

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

PEDESTRIAN SIGNAL HEAD PEDESTRI AN PUSH-BUTTON

NOTE: PUSH-BUTTON "B" SHALL PLACE A CALL TO PHASES 4 AND 6.

CABLE PLAN

HALF DAY FOREST RESERVE ENTRANCE

S A B C S

NO. 6-(GREEN)

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ILLINOIS ROUTE 21

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G

PKWY.

WOODLANDS

G

NO. 6.

(GREEN)

SCHEDULE OF QUANTITIES

QUANTITY UNIT <u>ITEM</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
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT
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, 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
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH EACH EACH EACH EACH EACH EACH EACH

TRACER CABLE

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

RETROFIT ALL EXISTING

SIGNAL HEADS TO L.E.D

- NO 6 (GREEN)

TS# 21411 **VERNON HILLS**

TRACER CABLE

INTERCONNECT TO CORPORATE WOODS PARKWAY

NO. 62.5/125. 12F

-UPS

(MILWAUKEE AVE.)

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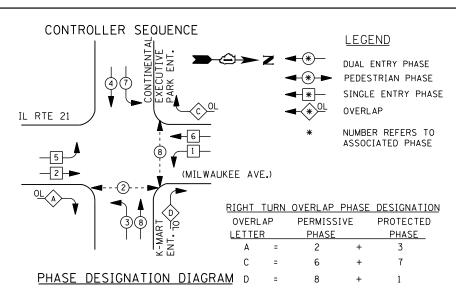
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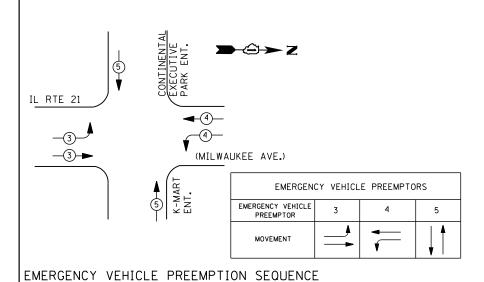
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	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	1
	PLOT DATE = 3/28/2012	DATE -		REVISED -	1

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

									1 = 1 11 10		
I	IL ROUTE 21 (M	IILWAUKEE	AVE.)	AND WO	ODLANDS	PKWY. – CABLE PLAN,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I	SCHEDIIIE DE 1	DITABLITIES	DHAG	E DEGIGI	N DIACRAM	& EVP SEQUENCE		2012-003 I	LAKE	102	55
ļ	SOUITEDOLL OF	LUANTITIES	, i iiAu	L DLJIU	V. DIAGIIAIVI	& LVI SEGULINOE			CONTRAC	T NO. 6	50T41
ı	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		







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	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
11	EACH	INDUCTIVE LOOP DETECTOR
* 2	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
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
5 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
Ĭ	EACH	SIGNAL HEAD, LED. 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

DEPARTMENT OF

* - 100% COST TO VILLAGE OF VERNON HILLS

CONSTRUCTION NOTES

K-MART ENT. CABLE PLAN

NOTE: PUSH-BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

CONTINENTAL EXECUTIVE PARK ENT.

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7

NO. 6 -GREEN

Y G ←Y ←G

Y G Y+ G+

- 1) THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
- 2) CONTRACTOR SHALL RELOCATE EXISTING FIBER OPTIC SPLICE BOX TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.
- 3) CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

(MILWAUKEE AVE.

ດ **≺** ສ

TS# 22050

TRACER CABLE

INTERCONNECT TO RIVER TREE COURT

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

STATE OF ILLINOIS MENT OF TRANSPORTATION	IL RTE. 21 AT C SCHEDULE OF	
	SCALE: N.T.S.	SHEE.

G A

ILL ROUTE 21

NO. 6 -GREEN

TRACER CABLE

INTERCONNECT TO CONTINENTAL DRIVE ~ > O \$ \$

			VERNO	N HIL	.LS
T CONTINENTAL EXE. PARK ENT./K-MART ENT CABLE PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF QUANTITIES, PHASE DESIGN, DIAGRAM & EVP SEQUENCE		2012-003 I	LAKE	102	56
DI GONITTILO, I IIAGE DESIGN.DIAGIIANI & EVI GEGOLINOL			CONTRAC	NO. 6	OT41
SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR A SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPME
	NO. LAMPS	WATTAGE INCAND. LED	% OPERATIONS	TOTAL WATTAGE	SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

	INCAND.	LED		WATTAGE	1	EACH	CONTROLLER	AND CABINE
18	1 35	1 7	0.50	153	4	EACH	PEDESTRI AN	SIGNAL HEAD
10	1 3 5	25	0.25	113	٦ ٦	EVCH	PEDESTRIAN	PUSH-RUTTON

(GREEN) 1 35 15 0.25 68 18 ARROW 1 35 0.10 20 24 PED. SIGNAL 1.00 100 CONTROLLER 1 00 1 00 1.00 100 25 ILLUM. SIGN 252 0.05 VIDEO SYSTEM 1.00 150

FLASHER LED TOTAL = 458

PLOT DATE = 3/28/2012

BILLED TO: VILLAGE OF VERNON HILLS ENERGY COSTS-290 EVERGREEN DRIVE

VERNON HILLS. IL 60061

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

TYPE

FILE NAME =

SIGNAL (RED)

(YFIIOW)

18

847-816-5239

COMMONWEALTH EDISON

USER NAME = \$USER\$ N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\22050_CAB_LAKE.dgr

DESIGNED REVISED DW DRAWN JDH REVISED CHECKED KMM REVISED REVISED DATE





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

38

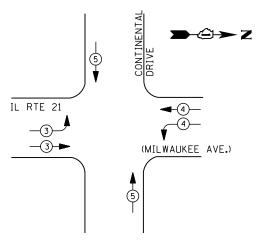
(MILWAUKEE AVE.)

CONTROLLER SEQUENCE

(4)(7)

IL RTE 21

2



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4	5					
MOVEMENT			1					

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

	ELLETRICAL SERVICE REGULATION									
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	8	1 35	12	0.10	10					
PED. SIGNAL	6	90	25	1.00	150					
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00	1					
FLASHER LED										

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DRIVE VERNON HILLS, IL 60061

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

TOTAL =

556

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

SCHEDULE OF QUANTITIES

QUANTITY <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
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRUPTABLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED, RETROFIT
PEDESTRIAN PUSH-BUTTON, NON-LATCHING FACH EACH

Я $\Rightarrow \Leftrightarrow z$ DR. TRACER CABLE CONTINENTAL Y G ←Y ←G **≫.** ♥ G ←Y ←G INTERCONNECT TO AMERICAN HOTEL REGISTER DR. (MILWAUKEE AVE.) _ œ ≻ ∪ # } \$ ດ ≺ ѫ ດ **≺** ສ -5 ດ ≺ ѫ ILL ROUTE 21 0 +√ 0 o +× * • 0 ٨ TRACER CABLE | , | Я ㅂ | INTERCONNECT TO EXECUTIVE WAY RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D 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

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

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

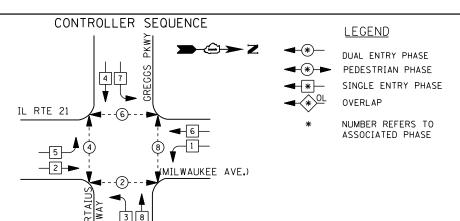
TS# 22052 VERNON HILLS

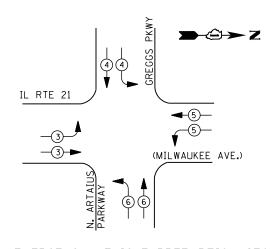
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

			V LINIO	14 1111	
IL. RTE. 21 (MILWAUKEE AVE.) AT CONTINENTAL DRIVE – CABLE PLAN,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE.
SCHEDULE OF QUANTITIES, PHASE DESIGN, DIAGRAM & EVP SEQUENCE		2012-003 I	LAKE	102	57
SCHEDOLL OF GOARTHES, FRASE DESIGN. DIAGRAM & EVE SEGULINGE			CONTRAC	T NO. 6	50T41
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		







EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE 3 4 5 6								
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)	21	1 35	17	0.50	179						
(YELLOW)	21	1 35	25	0.25	131						
(GREEN)	21	1 35	15	0.25	79						
ARROW		1 35	12	0.10							
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	-						
FLASHER LED											
				TOTAL =	689						

ENERGY COSTS-

BILLED TO: VILLAGE OF VERNON HILLS 290 EVERGREEN DR.

VERNON HILLS, IL 60061

ENERGY SUPPLY -PHONE

CONTACT TERRI BLECK <u>847-816-5239</u> COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u>

EACH EACH

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

UPS

ILL ROUTE 21

INTERCONNECT TO

S. ARTAIUS PKWY

TRACER CABLE

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF LIBERTYVILLE AND GATSO USA, INC. PRIOR TO THE START OF CONSTRUCTION.

VILLAGE OF LIBERTYVILLE 200 W. COOK AVENUE LIBERTYVILLE, IL 60048 847-918-2100

NORTH ARTAIUS PARKWAY

CABLE PLAN

GREGGS PKWY.

R > G

GATSO USA, INC. 900 CUMMINGS CENTER, SUITE 321-U BEVERLY, MA 01915 978-922-7294

 $\Rightarrow \hat{\cong} \Rightarrow \mathbf{Z}$

-TRACER CABLE

INTERCONNECT TO REDTOP DR./GREENTREE PKWY.

(MILWAUKEE AVE.)

THE VILLAGE OF LIBERTYVILLE OR GATSO USA, INC. SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION, ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

TS# 14018 VERNON HILLS/LIBERTYVILLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		III RTF 21 AT	GREGGS P	KWA W	ORTH A	RTAILIS PKV	VY. – CABLE PLAN,	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
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	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AII	PROJECT		



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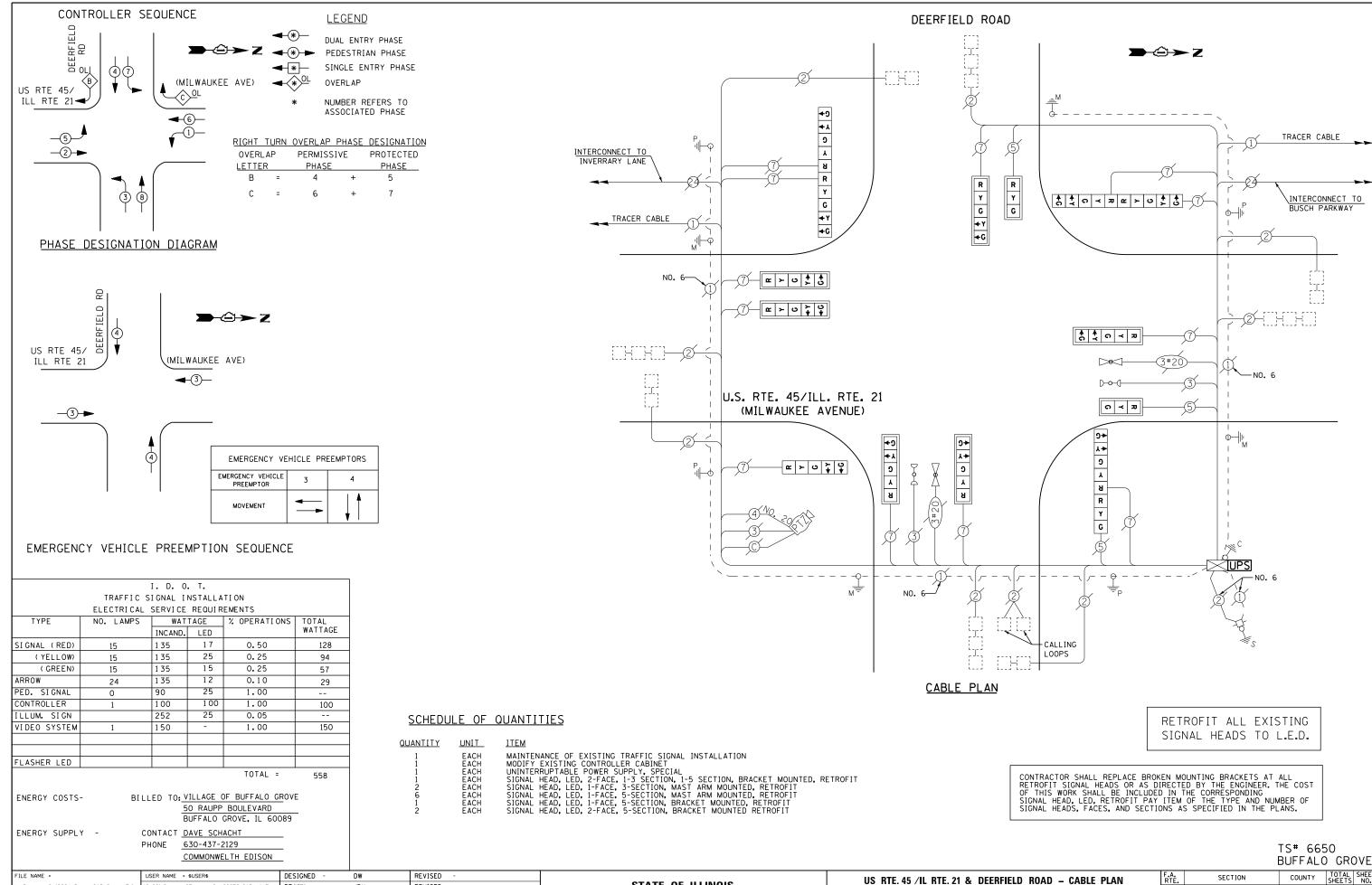
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STATE OF ILLINOIS

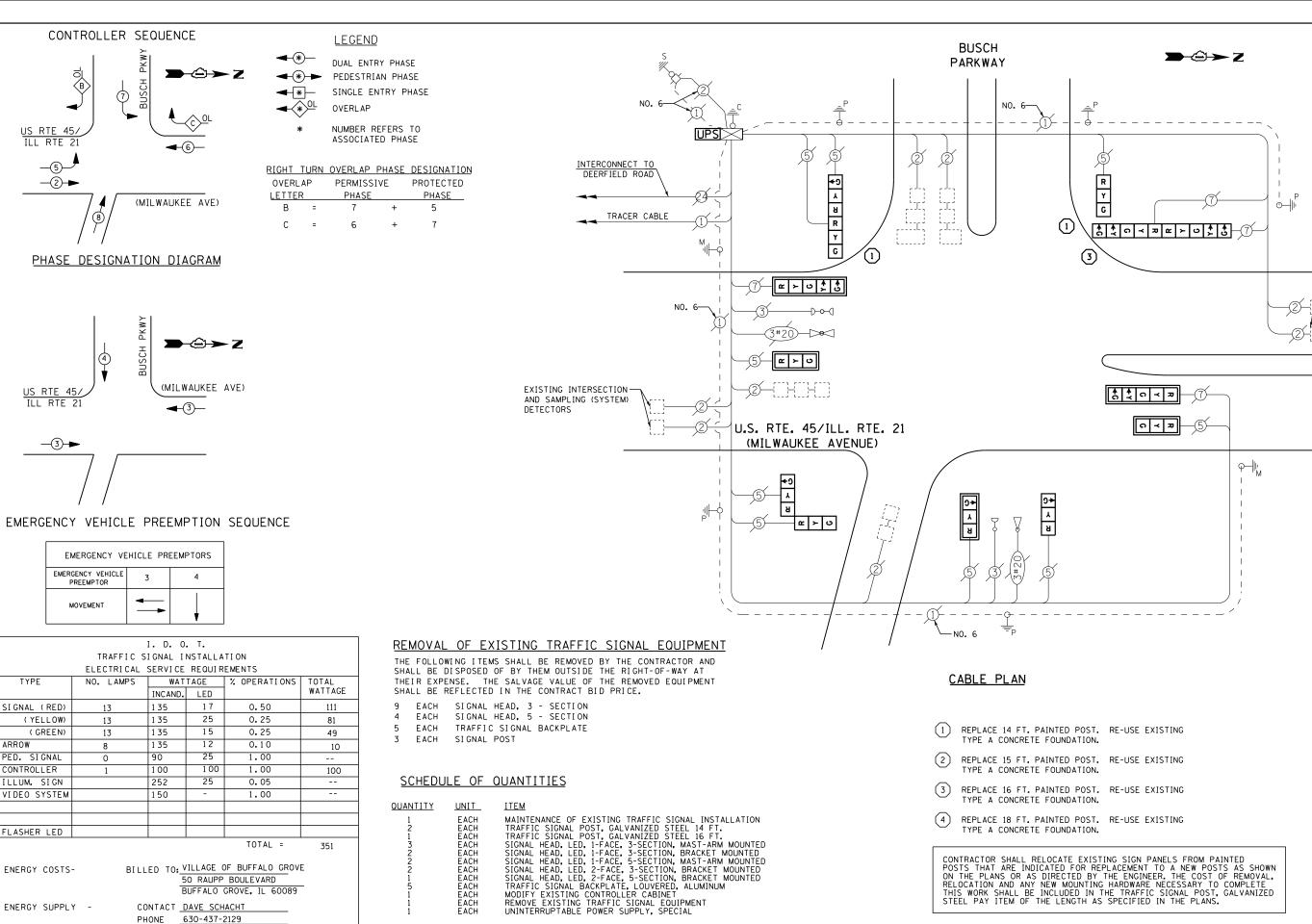
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE

SHEET NO. OF SHEETS STA.

COUNTY 2012-003 I LAKE 102 59 CONTRACT NO. 60T41





TS# 6680 BUFFALO GROVE

-EXISTING INTERSECTION

AND SAMPLING (SYSTEM)DETECTORS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMONWELTH EDISON

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

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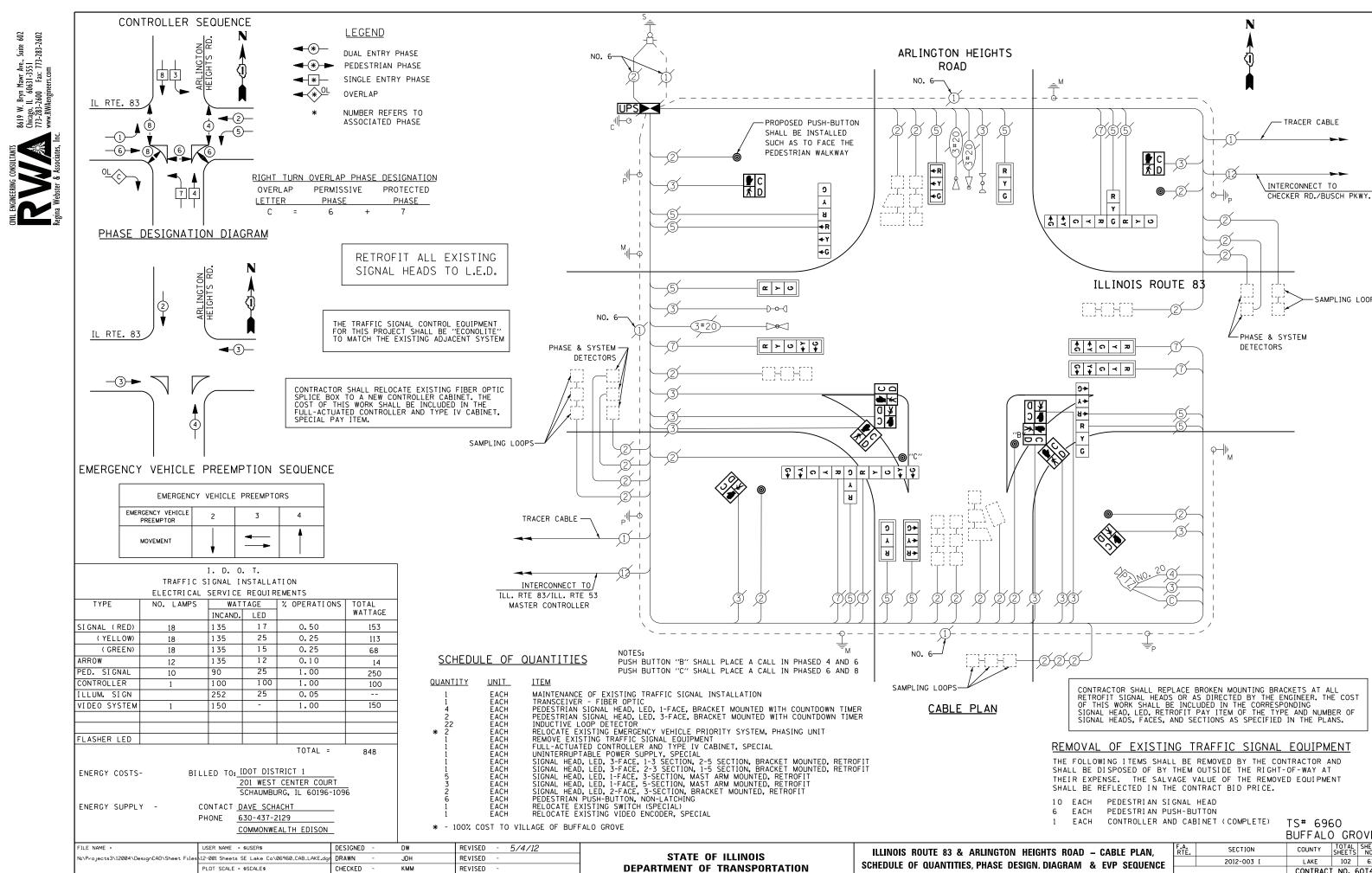
REVISED

US RTE. 45 /IL RTE. 21 & BUSCH PARKWAY – CABLE PLAN,
SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

SECTION COUNTY TOTAL SHEET NO.

2012-003 I LAKE 102 60

CONTRACT NO. 60T41



REVISED

PLOT DATE = 5/7/2012

DATE

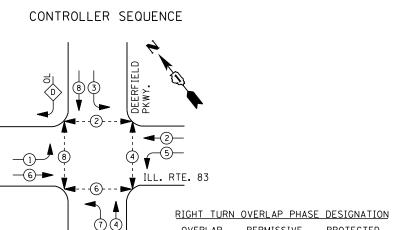
SCALE: N.T.S.

SHEET NO. OF SHEETS STA.

BUFFALO GROVE TOTAL SHEETS NO. COUNTY LAKE 102 61 CONTRACT NO. 60T41

SAMPLING LOOPS





LETTER

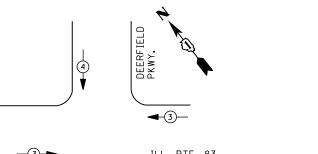
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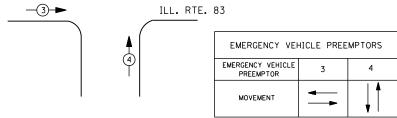
PERMISSIVE PROTECTED

PHASE

PHASE

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

		I. D. 0	. T.								
	TRAFFIC S	I GNAL I	NSTALLA	TION							
	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	20	1 35	12	0.10	24						
PED. SIGNAL	8	90	25	1.00	200						
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM	1	150	-	1.00	150						
FLASHER LED											
				TOTAL =	715						

ENERGY COSTS-

BILLED TO: VILLAGE OF BUFFALO GROVE 50 RAUPP BOULEVARD

BUFFALO GROVE, IL 60089

ENERGY SUPPLY -

CONTACT DAVE SCHACHT PHONE 630-437-2129 COMMONWEALTH EDISON SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN PUSH-BUTTON
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
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
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT EACH EACH EACH EACH EACH EACH EACH EACH EACH

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.

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

INTERCONNECT TO

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BUFFALO GROVE RD.

DEERFIELD PKWY.

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CHECKER DRIVE

CABLE PLAN

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ILL. RTE. 83

- TRACER CABLE

NO. 6

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

TS# 6965

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TRACER CABLE -

INTERCONNECT TO ILLINOIS ROUTE 83/ ARLINGTON HEIGHTS ROAD

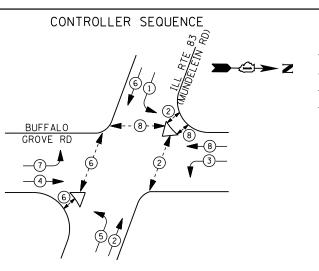
> BUFFALO GROVE COUNTY TOTAL SHEET NO. SECTION ILLINOIS ROUTE 83 & DEERFIELD PKWY./CHECKER DRIVE - CABLE PLAN, FACE. 2012-003 I LAKE 102 62 SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SHEET NO. OF SHEETS STA.

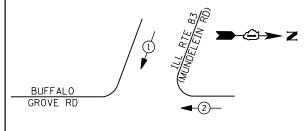
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

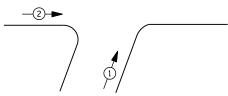
EACH PEDESTRIAN SIGNAL HEAD

EACH PEDESTRIAN PUSH-BUTTON









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	//	

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

	ELLOTTIONE	JE 1 OE		LINEITIO	
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	10	90	25	1.00	250
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	1
FLASHER LED					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

TOTAL =

665

ENERGY SUPPLY -

CONTACT DAVE SCHACHT
PHONE 630-437-2129

LEGEND

OVERLAP

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

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.

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

SCHEDULE OF QUANTITIES

CABLE PLAN

(SYSTEM) DETECTORS

(5)

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(5)

SAMPLING (SYSTEM)

DETECTORS

TRACER CABLE INTERSECTION AND SAMPLING-

BUFFALO GROVE ROAD

QUANTITY UNIT ITEM

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2 EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
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, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
5 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 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8 EACH RAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7 EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

INTERCONNECT TO ILL. RTE. 83

AND PAULINE AVENUE

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

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

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

ILLINOIS ROUTE 83

(MUNDELEIN ROAD)

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A A C X Z Z Y U

TS# 6975 BUFFALO GROVE

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№ C

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SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

E. SECTION COUNTY TOTAL SHEETS NO.

2012-003 I LAKE 102 6.3

CONTRACT NO. 60T41

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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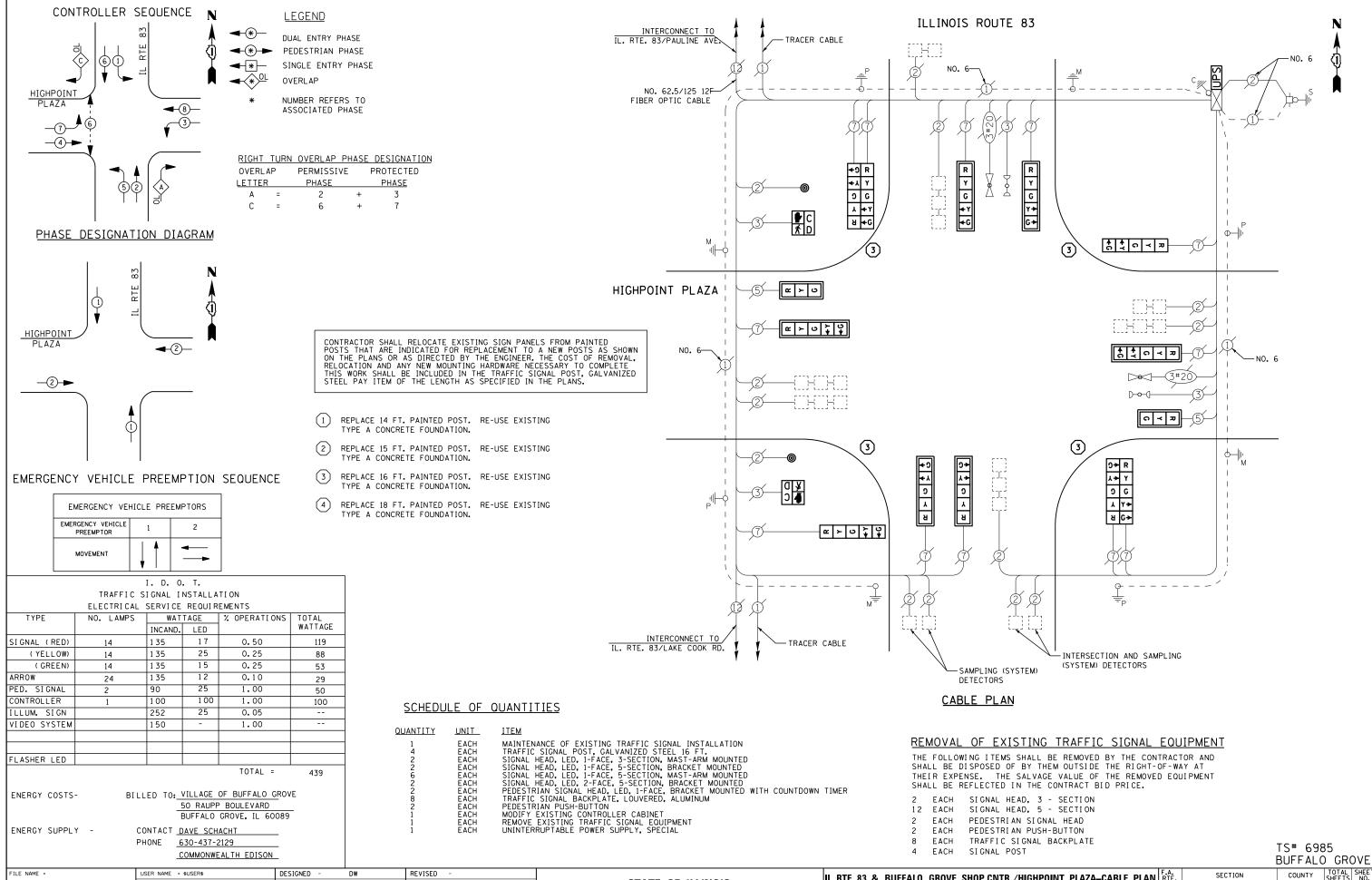
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE. 83 & BUFFALO GROVE SHOP.CNTR./HIGHPOINT PLAZA-CABLE PLAN, RTE.

SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE

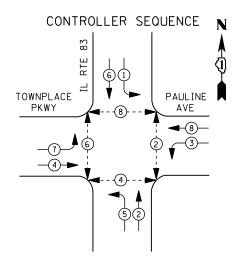
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2012-003 I

LAKE 102 64

CONTRACT NO. 60T41



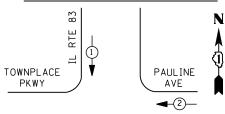


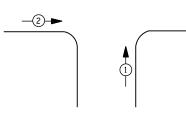
LEGEND

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	1	2
MOVEMENT		† *

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	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												

ENERGY COSTS-

FILE NAME =

BILLED TO: VILLAGE OF BUFFALO GROVE 50 RAUPP BOULEVARD

BUFFALO GROVE, IL 60089

TOTAL =

ENERGY SUPPLY -

CONTACT DAVE SCHACHT PHONE 630-437-2129

PLOT DATE = 3/28/2012

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COMMONWEALTH EDISON DESIGNED USER NAME = \$USER\$ DW

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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.

PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON 5 EACH

QUANTITY	UNIT	<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	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
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

INTERCONNECT TO

HIGHPOINT PLAZA

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

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

TS# 9885

SERVICE INSTALLATION

IL RTE. STATE OF ILLINOIS **SCHED DEPARTMENT OF TRANSPORTATION** SCALE: N

TRACER CABLE

C ○ ○ ○ ★
★ D ★ ←

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TRACER CABLE

O O

TOWNPLACE PARKWAY

ΨY

INTERCONNECT TO

BUFFALO GROVE ROAD

ILLINOIS ROUTE 83

NO. 6-

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PAULINE AVENUE

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(MCHENRY ROAD)

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CABLE PLAN

PUSHBUTTON "B" SHALL PLACE A CALL IN PHASE 4 AND 6. PUSHBUTTON "C" SHALL PLACE A CALL IN PHASE 6 AND 8.

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

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								BUFFALU	GRU) V E
E. 83 & P.	AULINE AVEI	NUE /	/TOWNP	LACE PARKV	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
E. 83 & PAULINE AVENUE /TOWNPLACE PARKWAY – CABLE PLAN,							2012-003 I	LAKE	102	65
	UUANTITIES,	THAS	L DESIGI	v. DIAGNAIVI			CONTRACT	NO. 6	OT41	
N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	ID PROJECT		

SCHEDULE OF QUANTITIES

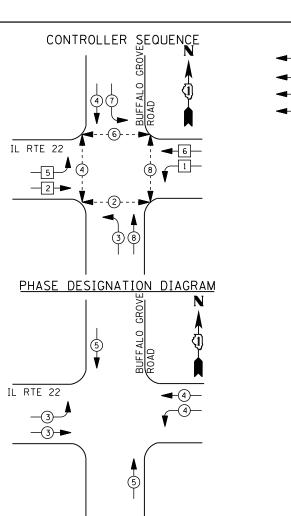
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REVISED





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS											
EMERGENCY VEHICLE PREEMPTOR	3	4	5								
MOVEMENT			 								

	I. D. O. T.												
	TRAFFIC S	I GNAL I	NSTALLA	TION									
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS									
TYPE	NO. LAMPS	WAT	% 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	8	1 35	12	0.10	10								
PED. SIGNAL	8	90	25	1.00	200								
CONTROLLER	1	1 00	100	1.00	100								
ILLUM. SIGN		252	25	0.05									
VIDEO SYSTEM		150	-	1.00									
FLASHER LED													
				TOTAL =	644								

BILLED TO: IDOT DISTRICT 1

CONTACT DAVE SCHACHT

630-437-2129

PHONE

201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

COMMONWELTH EDISON

ENERGY COSTS-

ENERGY SUPPLY -

<u>LEGEND</u>

DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	<u>ITEM</u>
1 8 1 1	EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 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.

8 EACH PEDESTRIAN PUSH-BUTTON

CABLE PLAN

BUFFALO

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ILL ROUTE 22

NO. 6-

EXISTING INTERSECTION - AND SAMPLING (SYSTEM)

TRACER CABLE -

INTERCONNECT TO
ILL. 83 (MUNDELEIN ROAD)

DETECTORS

TS# 20425 BUFFALO GROVE

-EXISTING INTERSECTION

DETECTORS

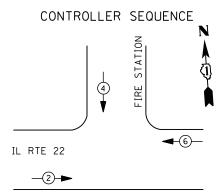
-TRACER CABLE

INTERCONNECT TO ARBORETUM WAY

AND SAMPLING (SYSTEM)

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		ILL. RTE. 22 AT BUFFALO GROVE ROAD — CABLE PLAN,	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\20425_CAB_LAKE.dg	r DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	·	IVIL.	2012-003 I	LAKE 102 66
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE			CONTRACT NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT



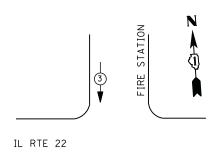


<u>LEGEND</u>

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHIC	LE PREEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	

ENERGY COSTS-

ENERGY SUPPLY -

	TRAFFIC SIGNAL INSTALLATION													
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL									
		INCAND.	LED		WATTAGE									
SIGNAL (RED)	11	1 35	1 7	0.50	94									
(YELLOW)	11	1 35	25	0.25	69									
(GREEN)	11	1 35	15	0.25	41									
ARROW		1 35	12	0.10										
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														
				TOTAL =	304									

BILLED TO: VILLAGE OF BUFFALO GROVE

630-437-2129

CONTACT DAVE SCHACHT

PHONE

50 RAUPP BOULEVARD BUFFALO GROVE, IL 60089

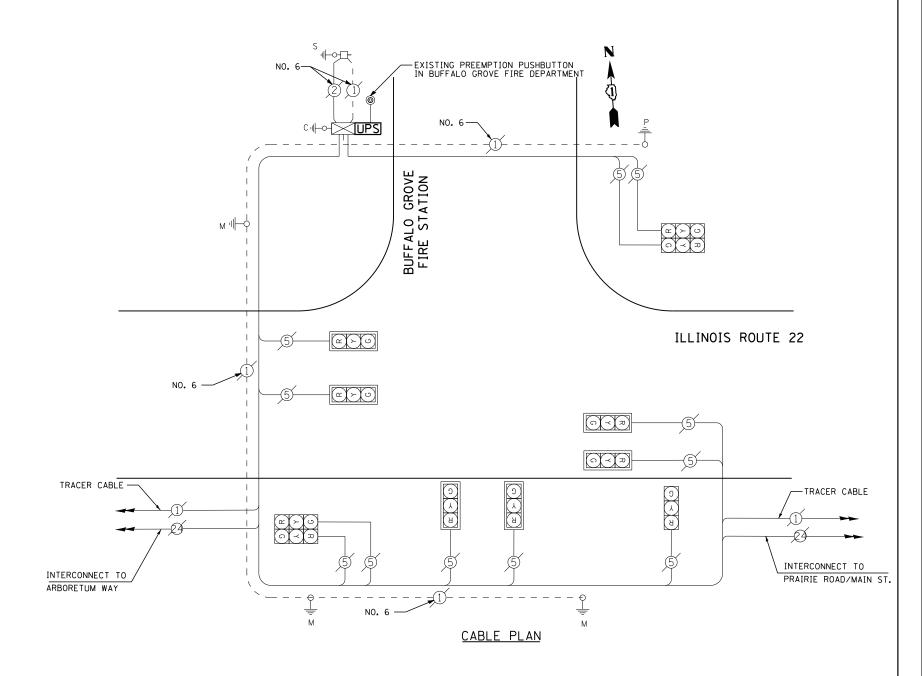
I. D. O. T.

SCHEDULE OF QUANTITIES

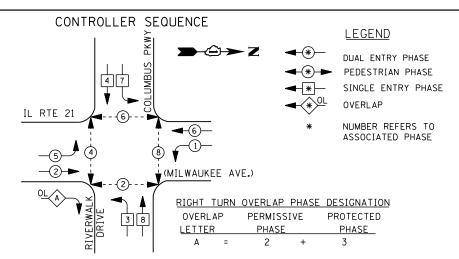
QUANTITY	<u>UNIT</u>	ITEM
1	EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY FXISTING CONTROLLER CABINET
i	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL

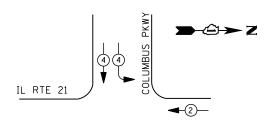
TS# 20426 BUFFALO GROVE

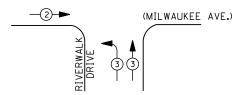
	COMMONWELTH EDISON	_												BUFFALC	GROVE
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II ROUTE 2	2 ΔT RIIFF	ALO GR	OVE (FIE	RE STATION) – CABLE PLAN,	F.A. RTE.	SECTION		TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	.12-001 Sheets SE Lake Co\20426_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS				,		•		2012-003 I	LAKE	102 67
PLOT SCALE = \$SCALE\$ CHECKED		CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	20UEDOFE OL	TOWN IIIE9	, РПАЗІ	E DESIGI	V. DIAGRAIVI	& EVP SEQUENCE			CONTRACT	T NO. 60T41
	PLOT DATE = 3/28/2012				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	2	3	4				
MOVEMENT	+		 				

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

ELECTRICAL SERVICE REGULTEMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	20	1 35	17	0.50	170					
(YELLOW)	20	1 35	25	0.25	125					
(GREEN)	20	1 35	15	0.25	75					
ARROW	12	1 35	12	0.10	14					
PED. SIGNAL	8	90	25	1.00	200					
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										

ENERGY COSTS-

BILLED TO: VILLAGE OF BUFFALO GROVE 50 RAUPP BOULEVARD

BUFFALO GROVE, IL 60089

TOTAL =

684

ENERGY SUPPLY -

CONTACT DAVE SCHACHT 630-437-2129 PHONE

COMMONWELTH EDISON

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

COLUMBUS PARKWAY -TRACER CABLE ←R 9 **>>. ▼** ᇰᆈ INTERCONNECT TO **←**Υ **←**G INVERRARY LANE **-**G ଧ G G **↑** ↑ ∩ ≺ ਸ਼ "P" **∝** ≻ ∪ (MILWAUKEE AVE.) <u>~</u> ≻ ∪ NO. 6-~ > U \ \ \ t t c ≺ z G ≺ 🇷 Ç ; 0 ≺ z ILL ROUTE 21 **∞** ≻ ∪ > 0 0**→** || ១ | ຸ (ດ | ⊲ | ສ || ວ | TRACER CABLE -В Я 심 ଧ→ G INTERCONNECT TO RAMPS A AND D (UPS NO. RIVERWALK DRIVE CABLE PLAN NOTE: PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.

SCHEDULE OF QUANTITIES

QUANTITY UNIT 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
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT
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, 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, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
PEDESTRIAN PUSH-BUTTON, NON-LATCHING FACH EACH FACH EACH EACH EACH

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

> 2 - €

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

TS# 20995 BUFFALO GROVE

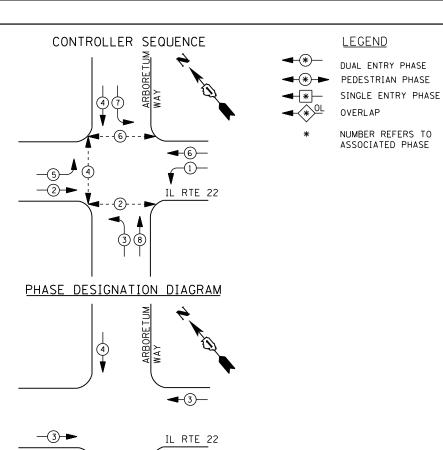
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

ILL. RTE. 21 AT COLUMBUS PKWY/RIVERWALK DR. - CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE SHEET NO. OF SHEETS STA.

TOTAL SHEET NO. SECTION COUNTY 2012-003 I LAKE 102 68 CONTRACT NO. 60T41





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

ENERGY COSTS-

ENERGY SUPPLY -

1. D. O. 1.													
	TRAFFIC SIGNAL INSTALLATION												
	ELECTRI CAL	SERVI CE	REQUI R	EMENTS									
TYPE	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	16	1 35	12	0.10	19								
PED. SIGNAL	6	90	25	1.00	150								
CONTROLLER	1	100	1 00	1.00	100								
ILLUM. SIGN		252	25	0.05									
VIDEO SYSTEM		150	-	1.00									
FLASHER LED													
				TOTAL =	491								

BILLED TO: VILLAGE OF BUFFALO GROVE

630-437-2129

CONTACT DAVE SCHACHT

PHONE

50 RAUPP BOULEVARD BUFFALO GROVE, IL 60089

COMMONWELTH EDISON

TRACER CABLE

INTERCONNECT TO BUFFALO
GROVE ROAD FIRE STATION

NO. 6

CABLE PLAN

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

SCHEDULE OF QUANTITIES

QUANTITY UNIT ITEM

10 FOOT UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1 EACH MODIFY EXISTING HANDHOLE
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT
1 EACH UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED
4 EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

2" UNDERGROUND CONDUIT, GALVANIZED STEEL

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"

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

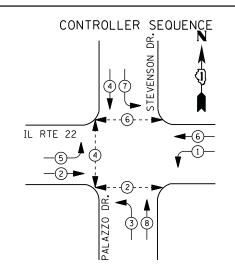
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH PEDESTRIAN PUSH-BUTTON

TS# 21215 BUFFALO GROVE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		ILL. RTE. 22 AT ARBORETUM WAY – CABLE PLAN,			F.A. RTF	SECTION	COUNTY	TOTAL	SHEET			
N:\Projects3\12004\DesignCAD\Sheet File	12-001 Sheets SE Lake Co\21215_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, PHASE DESIGN DIAGRAM & EVP SEQUENCE		STATE OF ILLINOIS			2012-003 I	LAKE	102	69		
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	T NO.	0T41ذ				
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS S	TA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





LEGEND

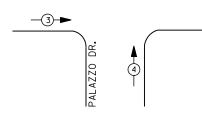
DUAL ENTRY PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO

PHASE DESIGNATION DIAGRAM

IL RTE 22



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

1. D. O. I.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	15	1 35	1 7	0.50	128					
(YELLOW)	15	1 35	25	0.25	94					
(GREEN)	15	1 35	15	0.25	56					
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	-	1.00	1					
FLASHER LED										

ENERGY COSTS-

BILLED TO: VILLAGE OF BUFFALO GROVE 50 RAUPP BOULEVARD

BUFFALO GROVE, IL 60089

TOTAL =

547

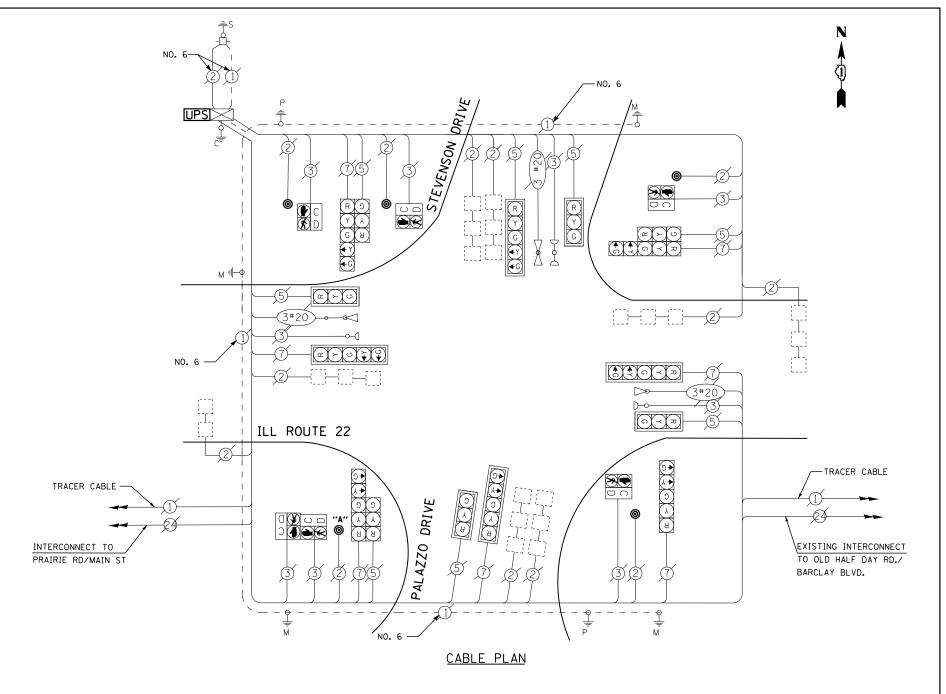
ENERGY SUPPLY -

CONTACT DAVE SCHACHT PHONE 630-437-2129

COMMONWELTH EDISON

PEDESTRIAN PHASE OVERLAP

ASSOCIATED PHASE



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

SCHEDULE OF QUANTITIES

QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH EACH EACH EACH EACH

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 PEDESTRIAN PUSH-BUTTON

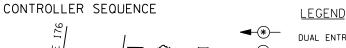
TS# 21965 BUFFALO GROVE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		III RTF 22	AT STEVEN	ISON D	RIVE/PA	Δ770 DRIVE	– CABLE PLAN,	F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\21965_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF					· ·		2012-003 I	LAKE	102	70
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF	QUANTITIE:	э, гпаэ	ב טבטוט	IV. DIAGNAIVI	a EVP SEUDENGE			CONTRAC	T NO. 6	0T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



IL RTE 21

-5 **2**



(MILWAUKEE AVE)

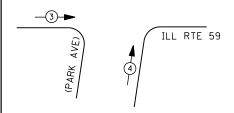
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

RTE **→**②→ Z ILL RTE 21 (MILWAUKEE AVE) **◄**-3)-



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	1

 110 1110		
ELECTRICAL	SERVICE REQUIR	EMENTS
TRAFFIC S	IGNAL INSTALLA	TION
	I. D. O. T.	

	ELECTRICAL				
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	1 00	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 =

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY <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
MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
UNINTERRIPTABLE POWER SUPPLY, SPECIAL 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.

- EACH PEDESTRIAN SIGNAL HEAD
- 5 EACH PEDESTRIAN PUSH-BUTTON

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

TS# 6715 LIBERTYVILLE

INTERCONNECT TO CHURCH STREET

TRACER CABLE

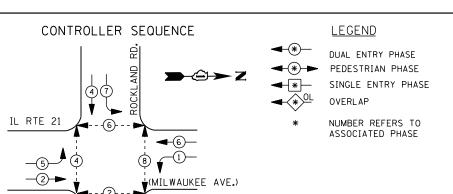
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N:\Projects3\12004\DesignCAD\Sheet Files	\12-001 Sheets SE Lake Co\06715_CAB_LAKE.dgn	DRAWN	-	JDH	REVISED	-	
	PLOT SCALE = \$SCALE\$	CHECKED	-	кмм	REVISED	-	
	PLOT DATE = 3/28/2012	DATE	-		REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

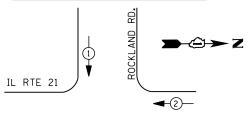
IL RTE. 21 (MIL	WAUKEE AV	E.) & 1	IL RTE. 1	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
					2012-003 I	LAKE	102	71					
SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE							CONTRACT NO. 60T41						
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT							

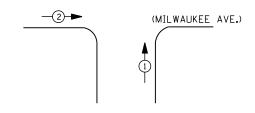
→②→ Z ILLINOIS ROUTE 176 (PARK AVENUE) NO. 6-INTERCONNECT TO ROCKLAND ROAD TRACER CABLE EXISTING CALLING LOOPS EXISTING CALLING LOOPS -EXISTING CALLING LOOPS ILLINOIS ROUTE 21 EXISTING CALLING LOOPS-0 <u>¥</u> 3 **₫ ≯**• CABLE PLAN





38





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	1	2							
MOVEMENT		†							

ENERGY COSTS-

FILE

ENERGY SUPPLY -

I. D. O. T.												
	TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS											
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	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								
FLASHER LED												
		TOTAL =	541									

BILLED TO: VILLAGE OF LIBERTYVILLE

CONTACT TERRI BLECK

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

200 E. COOK AVENUE LIBERTYVILLE, IL 60048 SCHEDULE OF QUANTITIES

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

INTERCONNECT TO CONDELL DRIVE

TRACER CABLE

TS# 12120 LIBERTYVILLE

→②→ Z

(MILWAUKEE AVE.) 2

₹ 7 8

CABLE PLAN

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASED 2 AND 4 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASED 4 AND 6 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASED 6 AND 8

AND

-R > G

-TRACER CABLE

INTERCONNECT TO
ILL. RTE. 176

COMMONWEALTH EDISON													LIBERTY	
ILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTF 21 /MI	IWAIIKEE AVE	AND BOO	KIVND BU	AD – CABLE PLAN	F.A.	SECTION	L COUNTY IS	TOTAL SHEET
:\Projects3\12004\DesignCAD\Sheet Files	s\12-001 Sheets SE Lake Co\12120_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	•		•			11122	2012-003 I	LAKE	102 72
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE						CONTRACT NO. 60T-		
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. 0	SHEETS	STA.	TO STA.		ILLINOIS FED. AII		

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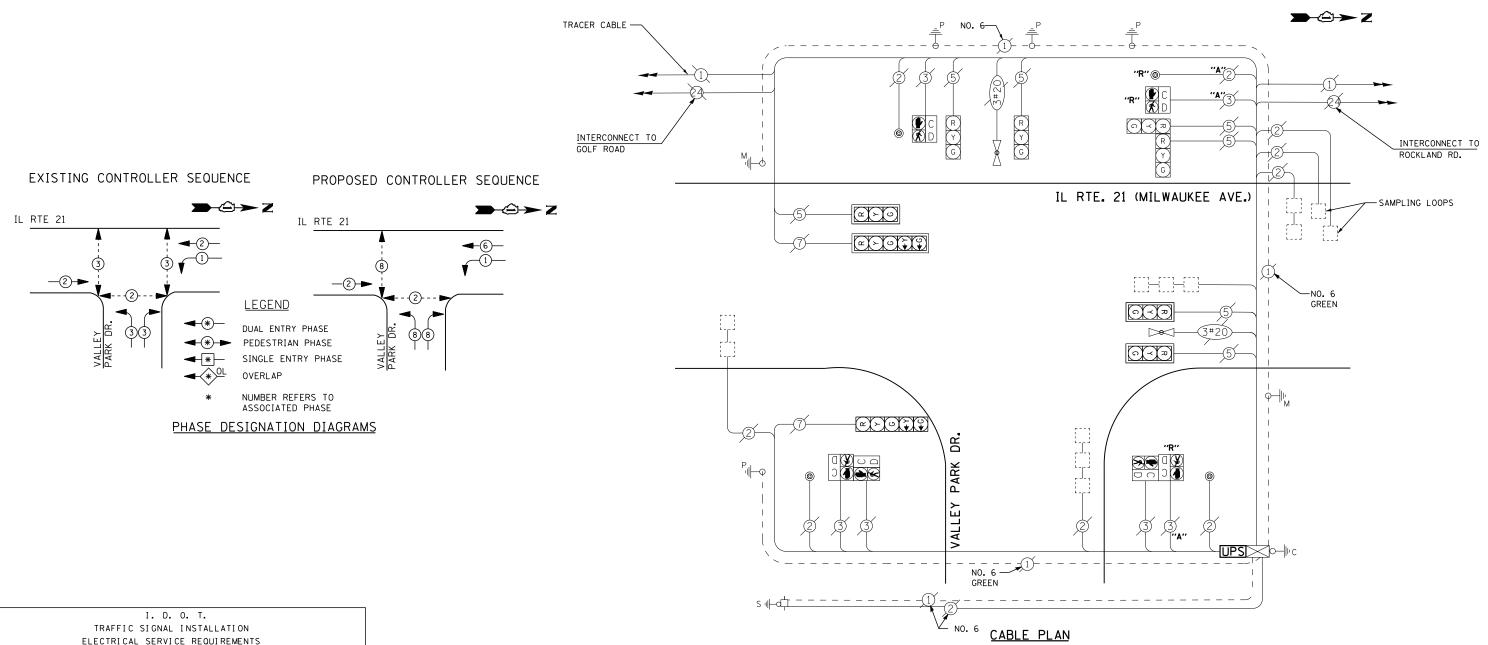
ILL ROUTE 21

7—<u>@DOF</u>

NOTES:

NO. 6





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

WATTAGE % OPERATIONS TOTAL WATTAGE TYPE INCAND. LED SIGNAL (RED) 17 76 1 35 0.50 25 0.25 (YELLOW) 56 135 (GREEN) 1 35 15 0.25 34 1 35 0.10 5 1.00 100

ARROW PED. SIGNAL CONTROLLER 100 1 00 1.00 100 25 ILLUM. SIGN 252 0.05 --VIDEO SYSTEM --1.00 150 FLASHER LED

ENERGY COSTS-

BILLED TO: VILLAGE OF LIBERTYVILLE

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

TOTAL =

200 E. COOK AVENUE LIBERTYVILLE, IL 60048

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

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

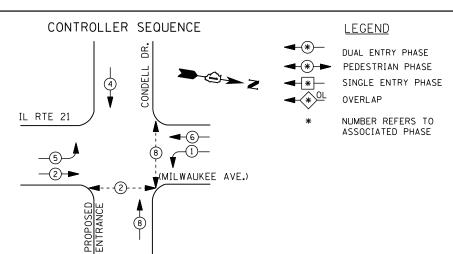
EACH PEDESTRIAN PUSH-BUTTON 2 EACH PEDESTRIAN SIGNAL HEAD

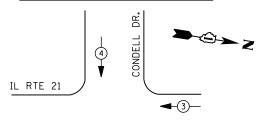
> TS# 14005 LIBERTYVILLE

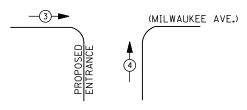
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	STATE OF HAINOIS IL RTE. 21 (MILWAUKEE AVE.) AT VALLEY PARK DRIVE – CABLE PLAN		II DTE 21 /MILWALIVEE AVE \ AT VALLEY DA		IVE CADIE DIAN	F.A.	SECTION	COUNTY	TOTAL S	SHEET		
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\14005_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	•		,				KIE.	2012-003 I	LAKE	102	73
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	2CHEDOLE OF	QUANTITIES,	, PHASE	: DESIG	I. DIAGKAW	& EVP SEQUENCE			CONTRAC		JT41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.			

LE PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SEQUENCE		2012-003 I	LAKE	102	73
SEGULINGE			CONTRACT	NO. 6	OT41
١.		ILLINOIS FED. A	ID PROJECT		









EMERGENCY VEHICLE PREEMPTION SEQUENCE

ſ			
	EMERGENCY VE	HICLE PR	EEMPTORS
	EMERGENCY VEHICLE PREEMPTOR	3	4
	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)	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	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 =	432					

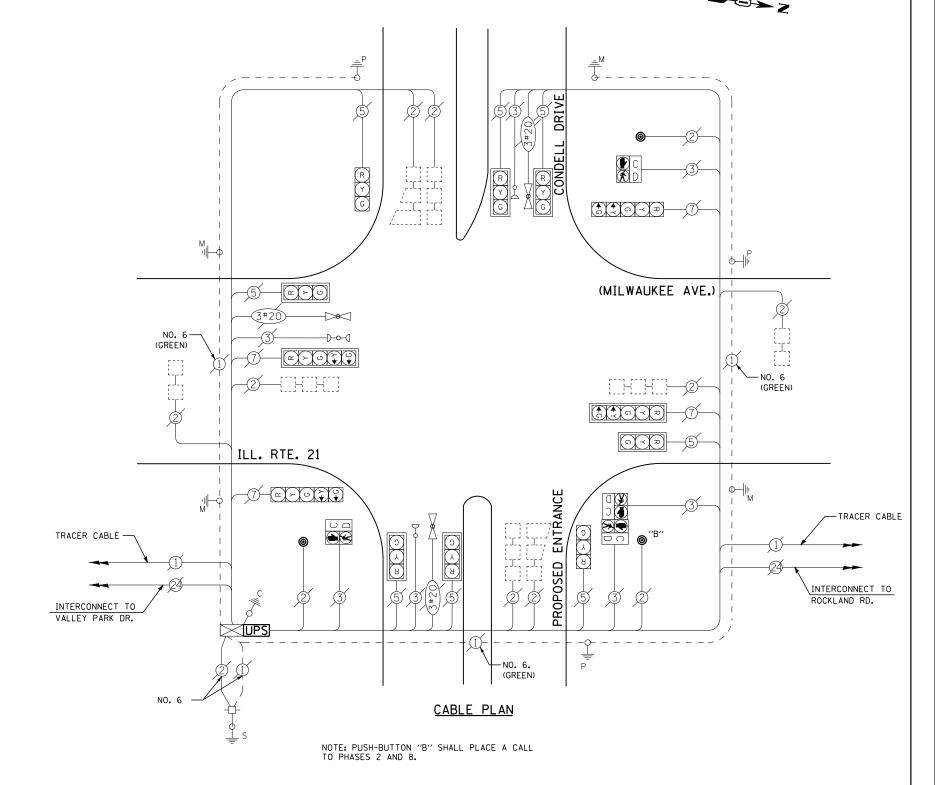
ENERGY COSTS-

BILLED TO: VILLAGE OF LIBERTYVILLE
200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

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

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
 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.

3 EACH PEDESTRIAN SIGNAL HEAD

TS# 14007 LIBERTYVILLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTF	21 /MII W/AI	IKEE V/	VF \ AT	CONDELL DE	R _ CARLE PLAN	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	\12-001 Sheets SE Lake Co\14007_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	IL RTE. 21 (MILWAUKEE AVE.) AT CONDELL DR. — CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE			2012-003 I	LAKE	102	74				
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	20UEDOFE OL	UUANTITIES,	РПАЭЕ	DESIG	N. DIAGRAIN	& EVP SEUDENGE		CONTRAC		T NO. 6	60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



IL RTE 21

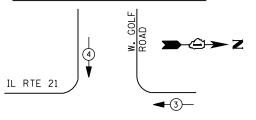


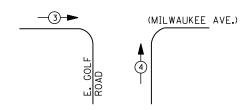
₩(MILWAUKEE AVE.)

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	—	1

	1. D. O. I.										
	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)	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	8	90	25	1.00	200						
CONTROLLER	1	1 00	100	1.00	100						
ILLUM. SIGN		252	25	0.05	-						
VIDEO SYSTEM		150	-	1.00	1						
FLASHER LED											
				TOTAL =	532						

BILLED TO: VILLAGE OF LIBERTYVILLE ENERGY COSTS-200 E. COOK AVENUE LIBERTYVILLE, IL 60048 CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239 COMMONWEALTH EDISON SCHEDULE OF QUANTITIES

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

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

-TRACER CABLE RD, GOL INTERCONNECT TO VALLEY PARK DRIVE (MILWAUKEE AVE.) 3#20 ILL ROUTE 21 **3**0 0 INTERCONNECT TO GREENTREE PKWY-REDTOP DRIVE TRACER CABLE CABLE PLAN

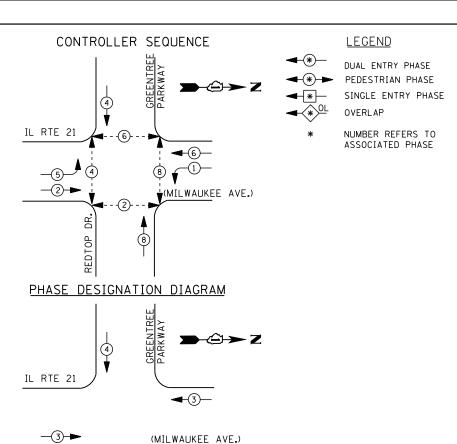
→②→ Z

NOTES:
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASED 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASED 6 AND 8

TS# 14017 LIBERTYVILLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		ILL. RTE. 21 (MILWAUKEE AVE.) AT GOLF RO	NAD - CARLE PLAN	F.A.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet F	les 12-001 Sheets SE Lake Co\14017_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	,	·		2012-003 I	LAKE	102 75
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAG	IRAM & EVP SEQUENCE				NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	





(MILWAUKEE AVE.)

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	1

		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)	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	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							
FLASHER LED											
				TOTAL =	570						

ENERGY COSTS-

BILLED TO: VILLAGE OF LIBERTYVILLE 200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u>

TRACER CABLE -

INTERCONNECT TO GREGG'S PKWY./ ARTAIUS PKWY.

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

> TS# 14015 LIBERTYVILLE

→②→ Z

GREENTREE

CABLE PLAN

RYO

(MILWAUKEE AVE.)

o-l⊩ M

---TRACER CABLE

INTERCONNECT TO

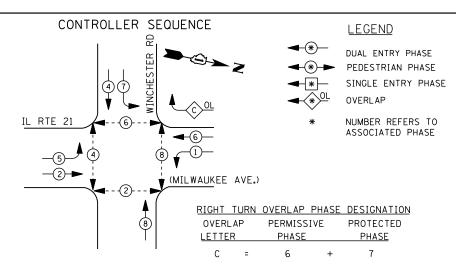
GOLF ROAD

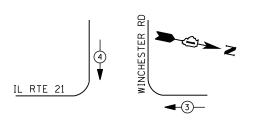
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTF 21	AT GREENT	BEE DI	KW/V ÆF	NTOP NRIVE	– CABLE PLAN.	F.A. RTF.	SECTION	COUNTY	TOTAL	L SH	EET
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\14015_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS						ONDEL TENIE,		2012-003 I	LAKE	102	2	76
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	2CHEDOLE OF	QUANTITIES	o, PHAS	PE DESI	JN. DIAGKAN	1 & EVP SEQUENCE			CONTRAC	T NO.	. 60T	41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED	AID PROJECT			

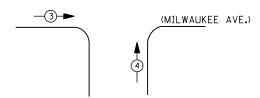
M ⊪Ф

ILL ROUTE 21









EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

	I. D.	O. T.
TRAFFIC	SIGNAL	INSTALLATION
ELECTRICAL	SERVIC	E REQUIREMENTS

TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
''' -	INU. LAWES			7. OI LIVATIONS	WATTAGE
		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	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	1	150	-	1.00	150
FLASHER LED					
				TOTAL =	710

ENERGY COSTS-

BILLED TO: VILLAGE OF LIBERTYVILLE 200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

ENERGY SUPPLY -

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

COMMONWEALTH EDISON

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)

6 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRANSCEIVER - FIBER OPTIC
7	EACH	INDUCTIVE LOOP DETECTOR
* 1 1	EACH EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL UNINTERRUPTABLE POWER SUPPLY, SPECIAL
6 1	EACH EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING RELOCATE EXISTING SWITCH (SPECIAL)
i	EACH	RELOCATE EXISTING VIDEO ENCODER, SPECIAL

* - 100% COST TO VILLAGE OF LIBERTYVILLE

TRACER CABLE -INTERCONNECT TO LIBERTYVILLE F.D.H.O INTERCONNECT TO LAKE STREET (MILWAUKEE AVE.) NO. ILL. ROUTE 21

INTERCONNECT TO LCDOT TMC

-NO. 6

CABLE PLAN

PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSH-BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

TRACER CABLE

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

CONTRACTOR SHALL RELOCATE EXISTING FIBER OPTIC SPLICE BOX TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET,

TS# 13985 LIBERTYVILLE

LAKE 102 77

CONTRACT NO. 60T41

COUNTY

TRACER CABLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED - 5/4/12
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\13985_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -
	PLOT DATE = 5/7/2012	DATE -		REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL RTE. 21 (MI	ILWAUKEE /	AVE.) A	T WINC	HESTER RO	DAD – CABLE PLAN	F.A. RTE.	SECTION
SCHEDIII E OE (DITANTITIES	PHA SI	DESIG	N DIAGRAI	M & EVP SEQUENCE		2012-003 I
SUILDULL OF	ZUANTITIES,	וטאוווי	. DESIG	N. DIAGIIA	W & LVI SECOLIVOE		
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A



IL RTE 21



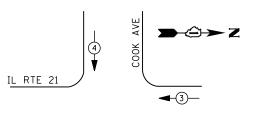
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

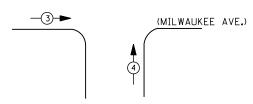
NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

(MILWAUKEE AVE.)

CONTROLLER SEQUENCE





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	

	Ι.	D.	0.	Τ.	
TRAFFIC	SIG	NAL	INS	STALLATION	
ELECTRICA	AL SE	RVIC	E F	REQUIREMENTS	5

	ELECTRICAL	SERVICE	REQUIR	EMEN IS	
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	4	1 35	12	0.10	5
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	2	252	25	0.05	3
VIDEO SYSTEM		150	-	1.00	1
FLASHER LED					

ENERGY COSTS-

BILLED TO: VILLAGE OF LIBERTYVILLE 200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

TOTAL =

530

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 8 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

<u>UANTITY</u>	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	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, 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
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

-TRACER CABLE TRACER CABLE -ပြ **≯**• Y G INTERCONNECT TO ↑ ↑ C ≺ Z INTERCONNECT TO LAKE STREET CHURCH STREET NO. 6 (MILWAUKEE AVE.) **♣** ♣ ⋒ ≺ ਸ਼ -EXISTING SAMPLING (SYSTEM) DETECTOR L00PS ດ ≺ 🋪 ILL. ROUTE 21 **≯** • G CABLE PLAN RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

TS# 13990 LIBERTYVILLE

- 1	FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	 REVISED -	STATE OF ILLINOIS	ĺ
	N:\Projects3\12004\DesignCAD\Sheet Files	N12-001 Sheets SE Lake Co\13990_CAB_LAKE.dgn PLOT SCALE = \$SCALE\$	CHECKED	-	REVISED -	DEPARTMENT OF TRANSPORTATION	S
		PLOT DATE = 3/28/2012	DATE	-	REVISED -		SC

IL RTE. 21 (MILWAUKEE AVE.) AT COOK AVE. - CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

COUNTY SECTION LAKE 102 78 2012-003 I CONTRACT NO. 60T41



LEGEND

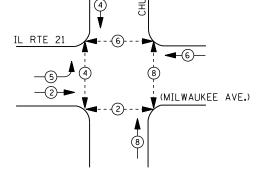
DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

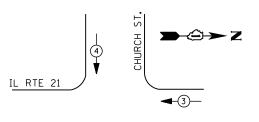
OVERLAP

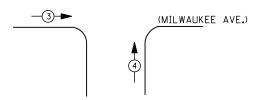
NUMBER REFERS TO ASSOCIATED PHASE



CONTROLLER SEQUENCE

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

	Ι.	D.	0.	Т.	
TRAFFIC	SIG	NAL	ΙN	STALLATION	
ELECTRICAL	. SE	RVI	CE	REQUI REMENT	S

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	4	1 35	12	0.10	5
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN	2	252	25	0.05	3
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

ENERGY COSTS-

BILLED TO: VILLAGE OF LIBERTYVILLE

200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

ENERGY SUPPLY -

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

COMMONWEALTH EDISON

TOTAL =

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.

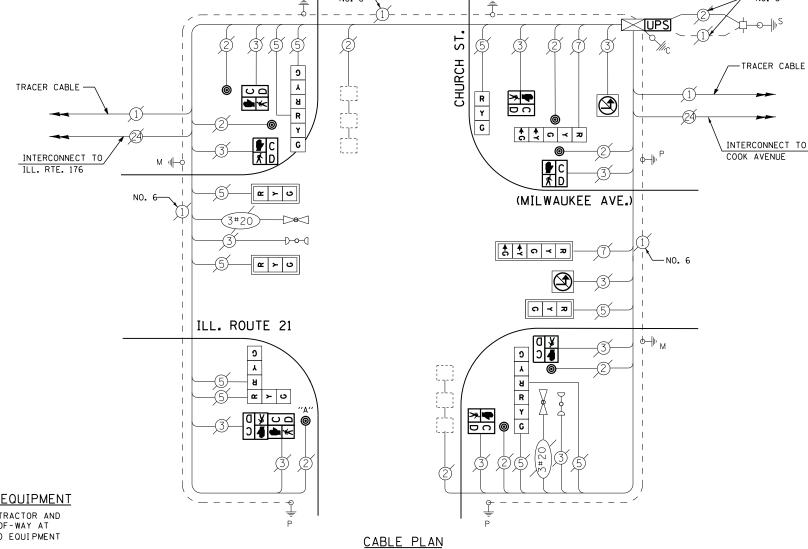
8 EACH PEDESTRIAN SIGNAL HEAD 7 EACH PEDESTRIAN PUSH-BUTTON

NOTE: PUSHBUTTON "A" SHALL PLACE A CALL ON PHASES 2 AND 4.

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.



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
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
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
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TS# 13995 LIBERTYVILLE

→②→ Z

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW SECTION COUNTY IL RTE. 21 (MILWAUKEE AVE.) AND CHURCH ST. - CABLE PLAN, STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\13995_CAB_LAKE.do DRAWN JDH REVISED LAKE 102 79 2012-003 I SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 3/28/2012 DATE REVISED

ILL. RTE. 21



DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

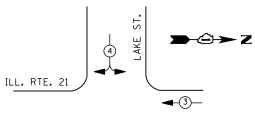
LEGEND

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

-6−

(MILWAUKEE AVE.)



-(3)**→** (MILWAUKEE AVE.)

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	-	

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
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)	9	1 35	15	0.25	34					
ARROW	4	1 35	12	0.10	5					
PED. SIGNAL	6	90	25	1.00	150					
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	422					

ENERGY COSTS-

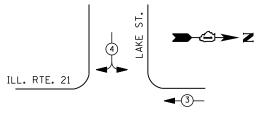
BILLED TO: VILLAGE OF LIBERTYVILLE 200 E. COOK AVENUE

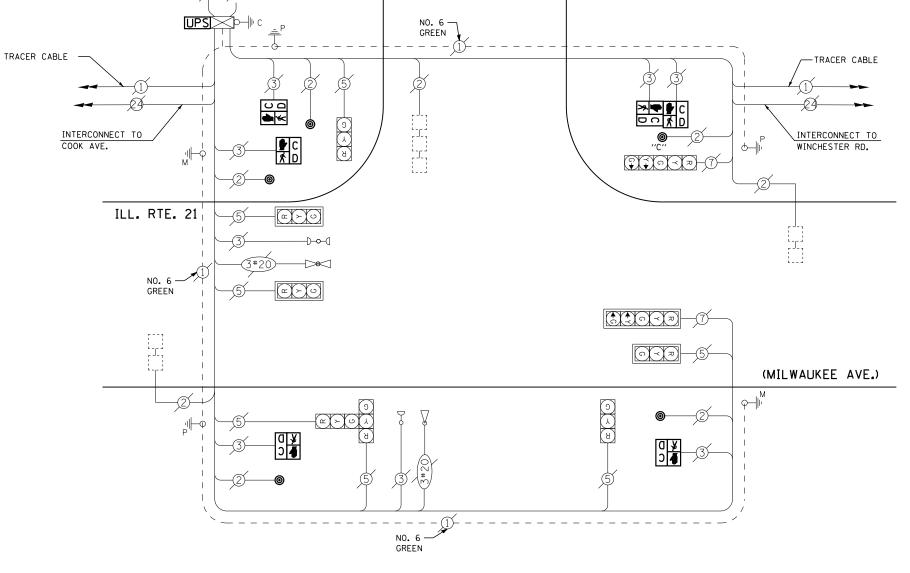
LIBERTYVILLE, IL 60048

ENERGY SUPPLY -

CONTACT <u>TERRI BLECK</u> PHONE

847-816-5239 COMMONWEALTH EDISON





LAKE STREET

CABLE PLAN

NOTES: PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 4.

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1 4 1	EACH EACH EACH EACH	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 MODIFY FXISTING CONTROLLER CABINET
1 1 5	EACH EACH EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

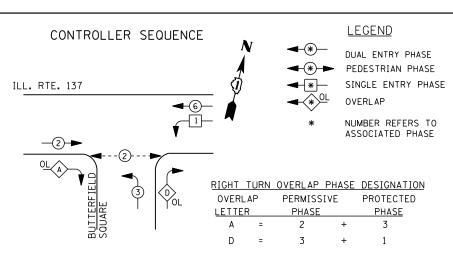
6 EACH PEDESTRIAN SIGNAL HEAD 5 EACH PEDESTRIAN PUSH-BUTTON

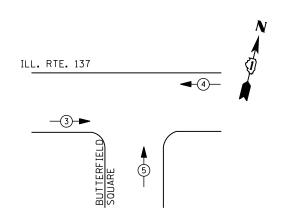
> TS# 21490 LIBERTYVILLE

→②→ Z

ET E NAME	UCED NAME AUCEDA	DECICNED	DIII	DEVICED								IE A			TOTAL	CHEET
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTF 21 /	MILWAUKEE	: AVF \ .	AND IA	KE STREET	CABLE PLAN,	l'eff	SECTION	COUNTY	SHEETS	NO.
N:\Projects3\12004\DesignCAD\Sheet Files	.12-001 Sheets SE Lake Co\21490_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS						· ·		2012 007 1	LAVE	102	-00
· -					DEDARTMENT OF TRANSPORTATION	SCHEDIII F OF	OUANTITIES	PHASE	DESIGN	DIAGRAM	& FVP SEQUENCE		2012-003 I	LAKE	102	80
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE				CONTRAC	I NO. 60	JT41				
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.			







EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	4	5				
MOVEMENT	_		†			

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	4	1 35	12	0.10	5					
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 =	396					

I. D. O. T.

ENERGY COSTS-

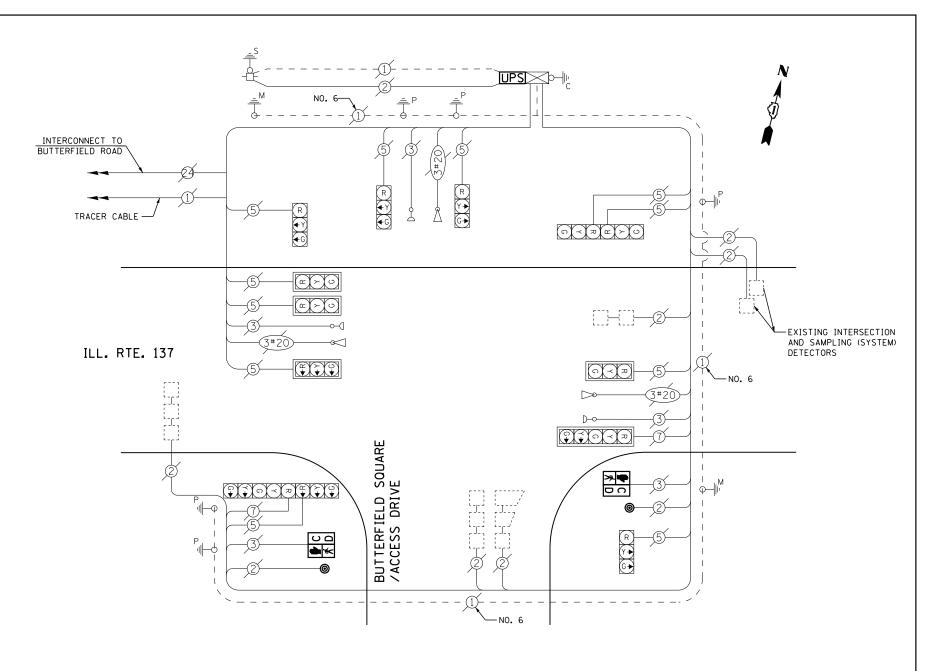
BILLED TO: VILLAGE OF LIBERTYVILLE

LIBERTYVILLE, IL 60048

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239 COMMONWEALTH EDISON

200 E. COOK AVENUE



CABLE PLAN

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

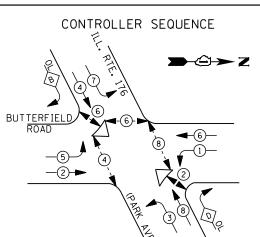
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PEDESTRIAN PUSH-BUTTON

TS# 7094 LIBERTYVILLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE. 137 AND BUTTERFIELD SQUARE /ACCESS DR. – CABLE PLAN,		F.A. RTF	SECTION	COUNTY	TOTAL SHEET	
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\07094_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	1				2012-003 I	LAKE	102 81
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENC		DIAGRAM & EVP SEQUENCE			CONTRACT	NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS S	TA. TO STA.		ILLINOIS FED.	AID PROJECT	





LEGEND

DUAL ENTRY PHASE

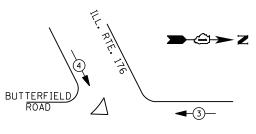
PEDESTRIAN PHASE SINGLE ENTRY PHASE

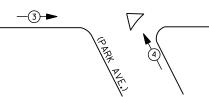
OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVERI	_AP	PERMISS	IVE	PROTECTED
LETTE	R.	PHASE		PHASE
_		_		_

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

	Ι.	D.	0.	T.		_
TRAFFIC	SIG	NAL	ΙN	STALL	ATION	
ELECTRI CAL	. SEI	RVI	CE	REQUI	REMENTS	,

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	24	1 35	12	0.10	29							
PED. SIGNAL	10	90	25	1.00	250							
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 =

789

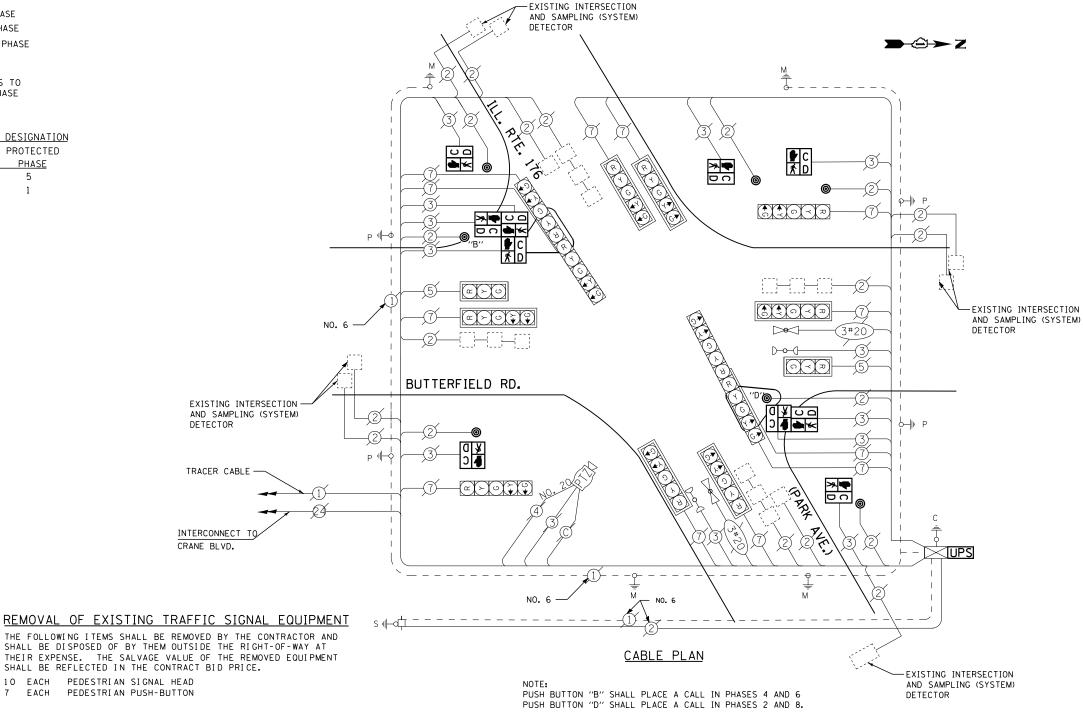
ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE

847-816-5239 COMMONWEALTH EDISON

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.

10 EACH PEDESTRIAN SIGNAL HEAD 7 EACH PEDESTRIAN PUSH-BUTTON



SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1 5 1 1 1 1 1 7	EACH EACH EACH EACH EACH EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TS# 14020

LAKE 102 82

CONTRACT NO. 60T41

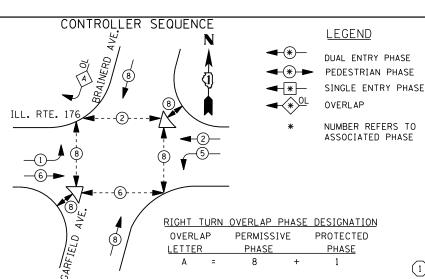
FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\14020_CAB_LAKE.dgr DRAWN JDH REVISED CHECKED KMM REVISED REVISED PLOT DATE = 3/28/2012 DATE

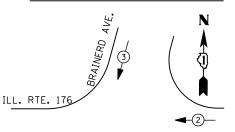
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

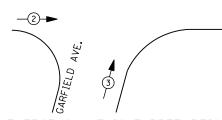
SECTION IL RTE. 176 (PARK AVE.) AT BUTTERFIELD ROAD - CABLE PLAN, 2012-003 I SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

LIBERTYVILLE COUNTY









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	2	3						
MOVEMENT		 						

	Ι.	D.	0.	Τ.	
TRAFFIC	SIG	NAL	ΙN	STALLA	TION
ELECTRI CAL	. SEI	RVI	CE	REQUIF	REMENTS

TYPE	NO. LAMPS	MPS WATTAGE INCAND. LED		% OPERATIONS	TOTAL							
					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	12	1 35	12	0.10	14							
PED. SIGNAL	12	90	25	1.00	300							
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 LIBERTYVILLE 200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

TOTAL =

600

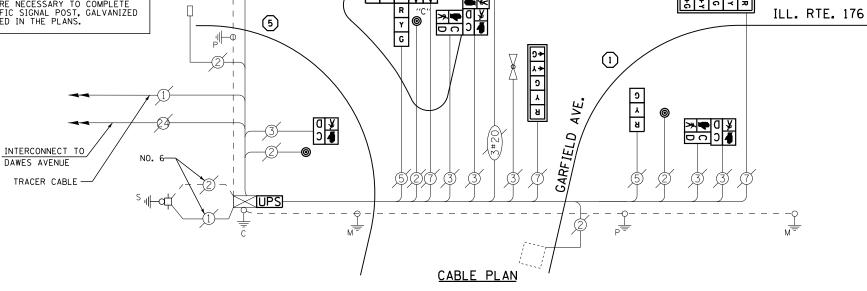
ENERGY SUPPLY -

CONTACT TERRI BLECK 847-816-5239 PHONE

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

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.



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

(3)

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NO. 6-

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 10 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT.
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, 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
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
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
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
6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

NO. 6

沙岬 ひロ

\$ \$ 0 ≺ ₽ "D"

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

EACH SIGNAL HEAD, 3 - SECTION SIGNAL HEAD. 5 - SECTION EACH PEDESTRIAN SIGNAL HEAD 12 EACH EACH PEDESTRI AN PUSH-BUTTON TRAFFIC SIGNAL BACKPLATE EACH 4 EACH SIGNAL POST

TS# 14025 LIBERTYVILLE

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet Fil s 12-001 Sheets SE Lake Co\14025_CAB_LAKE.do DRAWN JDH REVISED CHECKED КММ REVISED PLOT DATE = 3/28/2012 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL RTE. 176 AT GARFIELD AVE./BRAINERD AVE. - CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE SHEET NO. OF SHEETS STA.

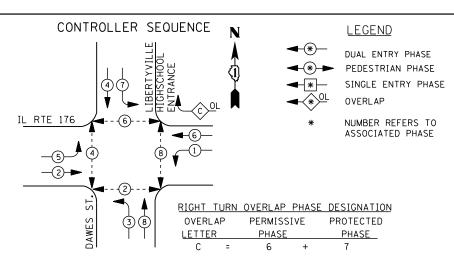
SECTION COUNTY 2012-003 I LAKE 102 83 CONTRACT NO. 60T41

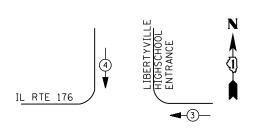
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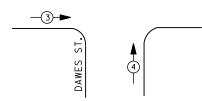
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EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

1	. D. (O. T.	
TRAFFIC SI	[GNAL]	[NSTALL A	TION
ELECTRICAL S	SERVI CE	E REQUIR	EMENTS
NO LAMBC	MALA .	TTACE	*/ ADED

ELECTRICAL SERVICE REGULATION												
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	20	1 35	12	0.10	24							
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								
FLASHER LED												

ENERGY COSTS-

BILLED TO: VILLAGE OF LIBERTYVILLE
200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

TOTAL =

510

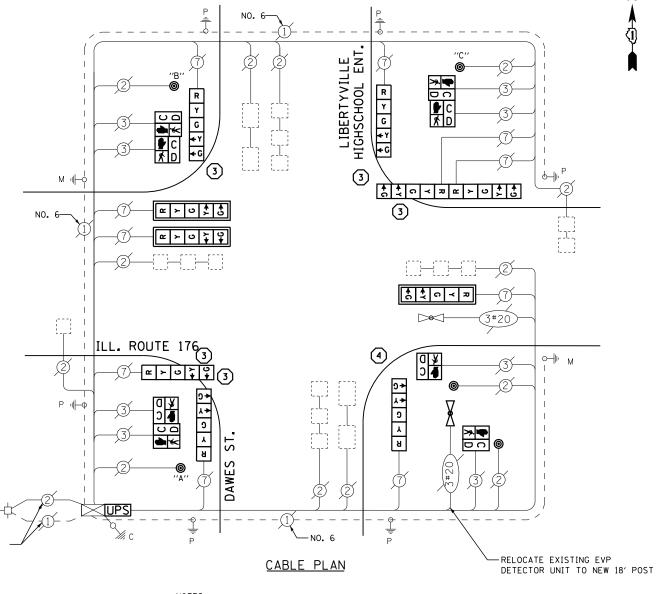
ENERGY SUPPLY -

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

COMMONWEALTH EDISON

- 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.

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.



NOTES:
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.

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
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
3	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM. DETECTOR UNIT
1	EACH	MODIFY EXISTING CONTROLLER CABINET
Ī	EACH	REMOVE EXISTING TRAFFIC SIGNAL FOUIPMENT
ī	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

* - 100% COST TO VILLAGE OF LIBERYTVILLE

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.

10 EACH SIGNAL HEAD, 5 - SECTION 8 EACH PEDESTRIAN SIGNAL HEAD 5 EACH PEDESTRIAN PUSH-BUTTON 6 EACH STEEL POST

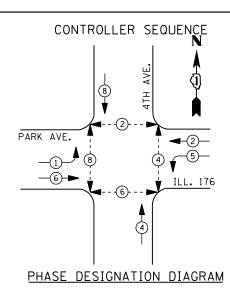
EACH

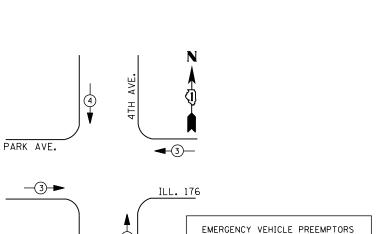
TRAFFIC SIGNAL BACKPLATE

TS# 14030 LIBERTYVILLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE. 176 AND DAWES STREET— CABLE PLAN,				F.A. RTF	SECTION	COUNTY	TOTAL	SHEET NO.		
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\14030_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS				HEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE				2012-003 I	LAKE	102	84
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDOLE OF	CHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP			I & EVP SEUDENCE			CONTRAC	T NO. 6	OT41	
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		







EMERGENCY VEHICLE PREEMPTOR MOVEMENT

EMERGENCY VEHICLE PREEMPTION SEQUENCE

		I. 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)	12	1 35	1 7	0.50	102
(YELLOW)	12	1 35	25	0.25	75
(GREEN)	12	1 35	15	0.25	45
ARROW	8	1 35	12	0.10	10
PED. SIGNAL	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 =	532

ENERGY COSTS-

BILLED TO: VILLAGE OF LIBERTYVILLE 200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE <u>847-816-5239</u> COMMONWEALTH EDISON LEGEND

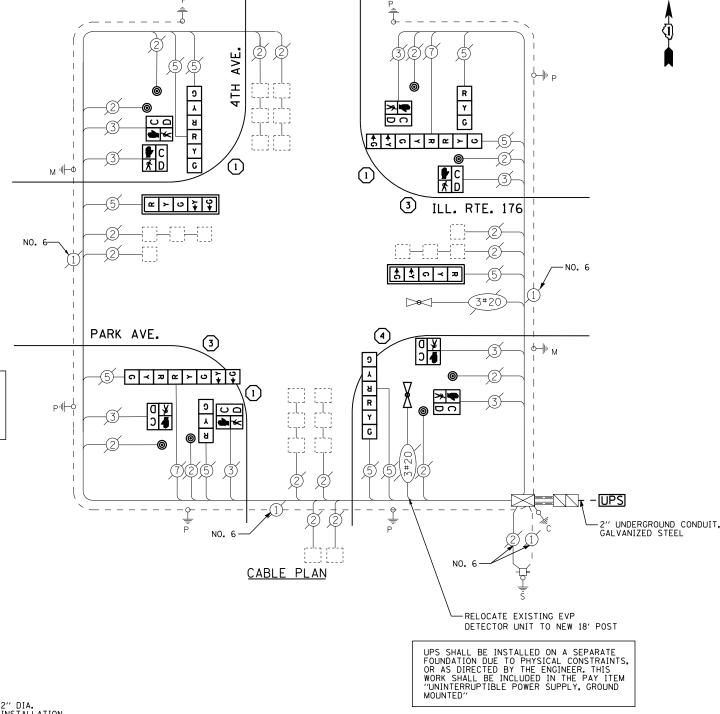
DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

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.

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.



SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
10	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
1	EACH	DRILL EXISTING HANDHOLE
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2 2	EACH	SIGNAL HEAD, LED. 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8 2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	PEDESTRIAN PUSH-BUTTON
* 1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
" i	EACH	MODIFY EXISTING CONTROLLER CABINET
i	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
i	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED
•	LACII	SHITTERING TABLE TOTIES SOFTER SHOOTED

* - 100% COST TO VILLAGE OF LIBERTYVILLE

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

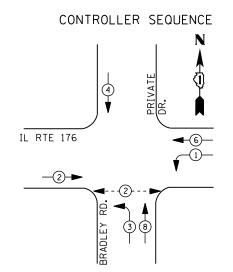
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- SIGNAL HEAD, 3 SECTION SIGNAL HEAD, 5 SECTION FACH
- PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON EACH
- EACH SIGNAL POST
- TRAFFIC SIGNAL BACKPLATE EACH

TS# 14035 LIBERTYVILLE

DESIGNED REVISED FILE NAME = USER NAME = \$USER\$ DW COUNTY SECTION IL RTE. 176 (PARK AVE.) AT 4TH AVENUE - CABLE PLAN, STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet File s 12-001 Sheets SE Lake Co\14035_CAB_LAKE.do DRAWN JDH REVISED 2012-003 I LAKE 102 85 SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 3/28/2012 DATE REVISED





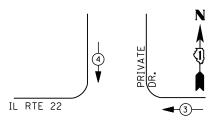
<u>LEGEND</u>

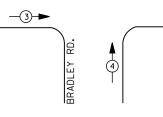
DUAL ENTRY PHASE

PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM





EMERGENCY VE	HICLE PREI	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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	42				
ARROW	8	1 35	12	0.10	10				
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	150	1.00					
FLASHER LED									
				TOTAL =	365				

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096 CONTACT TERRI BLECK

PHONE

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

−N0.6

ILL ROUTE 176

NO. 6-

EXISTING INTERSECTION-AND SAMPLING (SYSTEM)

TRACER CABLE -

EXISTING INTERCONNECT / TO ILL. RTE. 176 AT EAST

OF I-94 RAMP

DETECTORS

PRIVATE

NO. 6

BRADLEY ROAD

CABLE PLAN

TS# 20375 GREEN OAKS

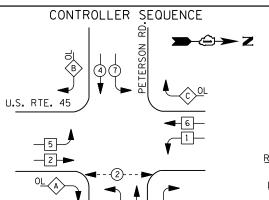
-EXISTING INTERSECTION

AND SAMPLING (SYSTEM)

DETECTORS

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE. 176 AT BRADLEY ROAD – CABLE PLAN,	F.A. SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-001 Sheets SE Lake Co\20375_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	·	2012-003 I	LAKE 102 86
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE	2012 000 1	CONTRACT NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AII	D PROJECT





LEGEND

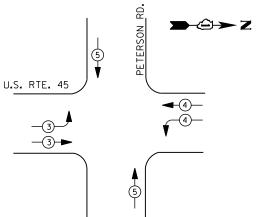
DUAL ENTRY PHASE

PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

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



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4	5		
MOVEMENT	-	—	 		

	I.	D.	0.	Т.
TRAFFIC	SIG	NAL	ΙN	STALLATION
ELECTRI CAL	. SEI	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)	18	1 35	15	0.25	68			
ARROW	24	1 35	12	0.10	29			
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

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

IANTITY	<u>UNIT</u>	ITEM
1	EACH FACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

CABLE PLAN

NO. 6-

₹? **€**

ROAD

(a) > (a) (\$\frac{1}{2}\)

U.S. ROUTE 45

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2 EACH PEDESTRIAN PUSH-BUTTON

VILLAGE OF LIBERTYVILLE 200 W. COOK AVENUE LIBERTYVILLE, IL 60048 847-918-2100 GATSO USA, INC. 900 CUMMINGS CENTER, SUITE 321-U BEVERLY, MA 01915 978-922-7294 THE VILLAGE OF LIBERTYVILLE OR GATSO USA, INC. SHALL MAKE THE RLR CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA WITHIN THE PROJECT LIMITS, CONTRACTOR SHALL NOTIFY THE VILLAGE OF LIBERTYVILLE AND GATSO USA, INC. PRIOR TO THE START OF CONSTRUCTION.

	Ir A		LIBER	6675 RTYVILLE TTOTAL SHEET	
DETERONN ROAD CARLE DIAM	F.A.	SECTION	COUNTY	TOTAL SHEET	П

FILE NAME = USER NAME = \$USER\$ N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\06675_CAB_LAKE.dgr DRAWN JDH REVISED CHECKED KMM REVISED PLOT DATE = 3/28/2012 DATE REVISED

663

DEPARTMENT OF TRANSPORTATION

INTERCONNECT TO

WINCHESTER ROAD

TRACER CABLE

COMED SERVICE POLE

U.S. RTE. 45 AT PETERSON ROAD. – CABLE PLAN,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDULE OF QUANTITIES, PHASE DESIGN, DIAGRAM & EVP SEQUENCE		2012-003 I	LAKE	102	87
SCHEDOLL OF GOANTHES, PHASE DESIGN. DIAGNAM & EVE SEGULINGE			CONTRACT	NO. 6	OT41
CALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

ROAD

PETERSON

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

PHASE DESIGNATION DIAGRAM

MOVEMENT		-		
EMERGENCY VEHICLE PREEMPTOR	3	4	5	
EMERGEN	CY VEHICLI	E PREEMPTO)RS	
MERGENCT VE	HICLE I	PREEMP	ION	2E

ELECTRICAL SERVICE REGULARMENTS										
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	24	1 35	12	0.10	29					
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	1	150	ı	1.00	150					

847-816-5239

DESIGNED REVISED DW

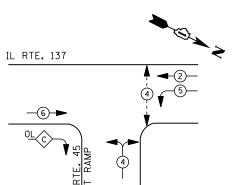
STATE OF ILLINOIS

SCA

 $rac{1}{2}$







LEGEND

★ DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

> NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED LETTER PHASE PHASE

PHASE DESIGNATION DIAGRAM

I. D. O. T.												
TRAFFIC SIGNAL INSTALLATION												
ELECTRICAL SERVICE REQUIREMENTS												
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)	11	1 35	15	0.25	41							
ARROW	8	1 35	12	0.10	10							
PED. SIGNAL		90	25	1.00								
CONTROLLER	1	100	100	1.00	100							
TILLIM STON		252	25	0.05								

150

TOTAL = 284

1.00

ENERGY COSTS-

VIDEO SYSTEM

FLASHER LED

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

R Y ←G G÷ R Y ←G G÷ ດ ≺ ѫ _5<u>~</u> ILL. RTE. 137 - μ_ν **JUPS** CABLE PLAN

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

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

TS# 21660 LIBERTYVILLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			ILL. RTE 137	211 &	RTF 45	FAST RAM	ЛP	F.A. RTF	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\21660_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS								2012-003 I	LAKE	102	88
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	CABLE PLAN, SC	UEDOFE OL A	MANIII	IES &	PHASE DES	IGNATION DIAGRAM			CONTRAC	T NO. 6	OT41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF S	HEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



ARROW

PED. SIGNAL

CONTROLLER

ILLUM. SIGN

VIDEO SYSTEM

FLASHER LED

ENERGY COSTS-

ENERGY SUPPLY -

1 35

100

252

150

PHONE

12

0.10

1.00

1.00

0.05

1.00

TOTAL =

100

BILLED TO: VILLAGE OF LIBERTYVILLE

847-816-5239 COMMONWEALTH EDISON

CONTACT TERRI BLECK

200 E. COOK AVENUE

LIBERTYVILLE, IL 60048

25

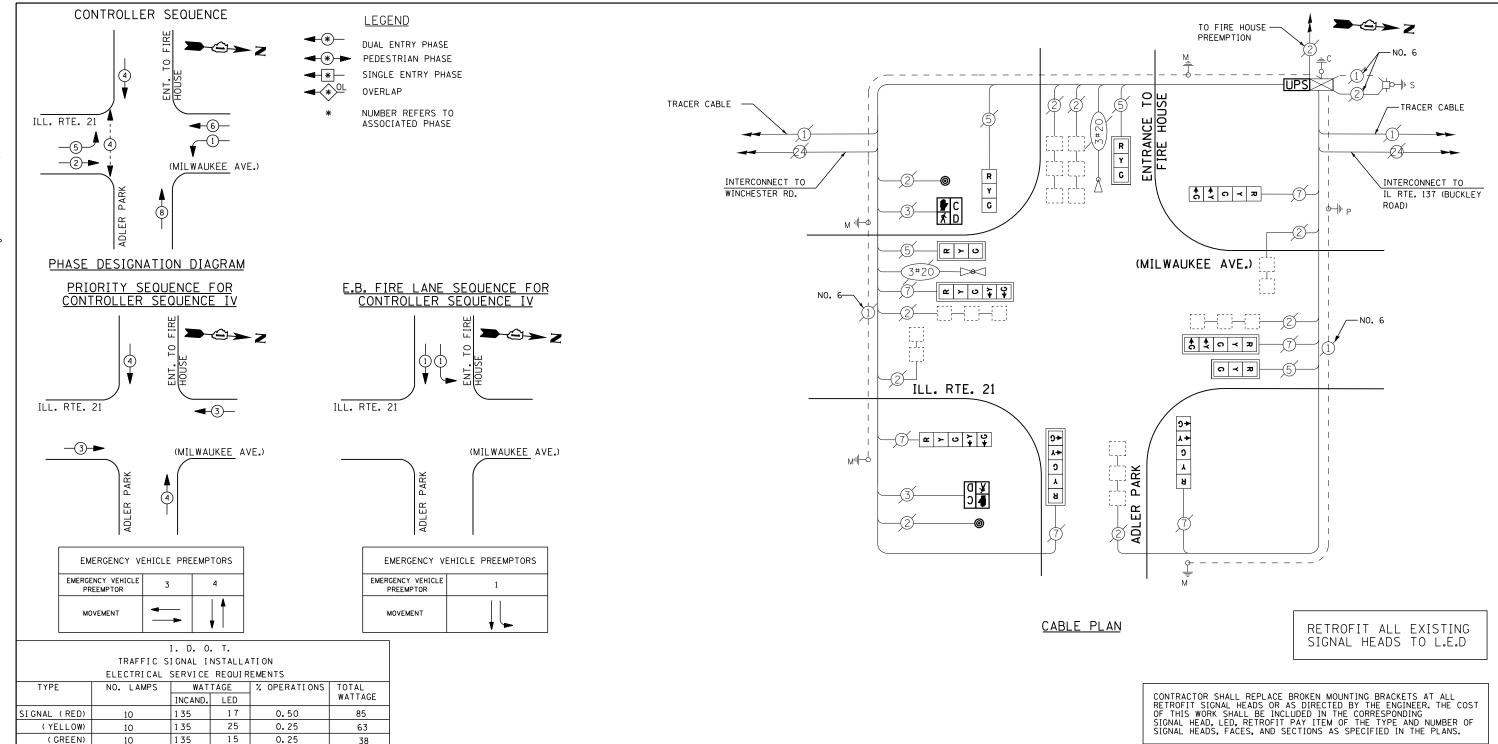
10

50

100

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350



SCHEDULE OF QUANTITIES

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

EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

> TS# 14016 LIBERTYVILLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		II RTF 21 /	T NORTH I	FIRE ST	ΛΤΙΩΝ//	DIER PARI	C – CABLE PLAN,	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-001 Sheets SE Lake Co\14016_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS						· ·	1112	2012-003 I	LAKE	102	89
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDOLE OF	QUANTITIES	, PHAS	E DESIG	N.DIAGRAN	& EVP SEQUENCE			CONTRAC		
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID			



VIDEO SYSTEM

FLASHER LED

ENERGY COSTS-

ENERGY SUPPLY -

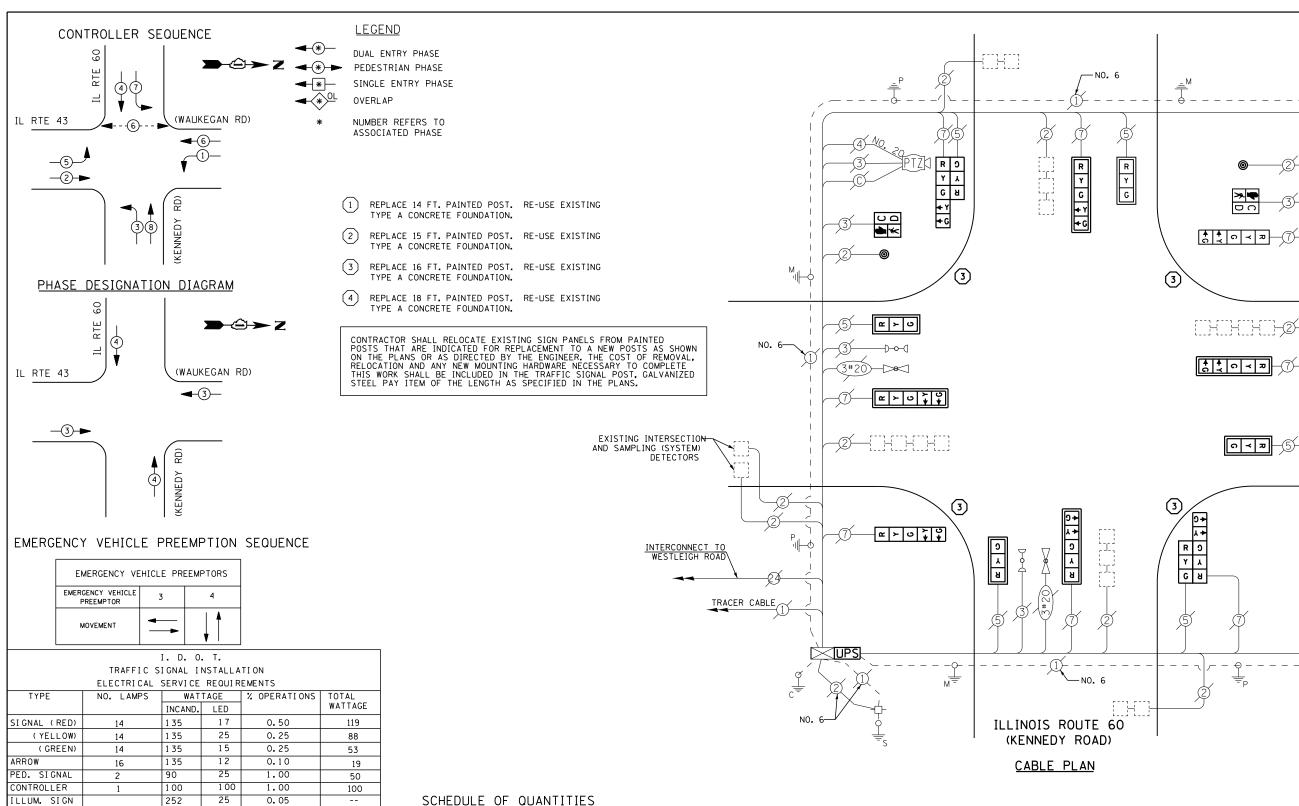
150

PHONE

BILLED TO: IDOT DISTRICT 1

CONTACT TERRI BLECK

847-816-5239



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.
4	EACH	SIGNAL HEAD. LED. 1-FACE. 3-SECTION. MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2	EACH	PEDESTRIAN PUSH-BUTTON
ī	EACH	MODIFY EXISTING CONTROLLER CABINET
i	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
Ĩ	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

- SIGNAL HEAD, 3 SECTION SIGNAL HEAD, 5 - SECTION TRAFFIC SIGNAL BACKPLATE
- PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH

EACH SIGNAL POST

TS# 6795 LAKE FOREST

ILLINOIS ROUTE 43

(WAUKEGAN ROAD)

TRACER CABLE

INTERCONNECT TO DEERPATH AVENUE

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-	Γ
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\06795_CAB_LAKE.dgr	DRAWN	-	JDH	REVISED	-	
	PLOT SCALE = \$SCALE\$	CHECKED	-	КММ	REVISED	-	
	PLOT DATE = 3/28/2012	DATE	-		REVISED	-	

1.00

TOTAL =

201 WEST CENTER COURT

COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

150

579

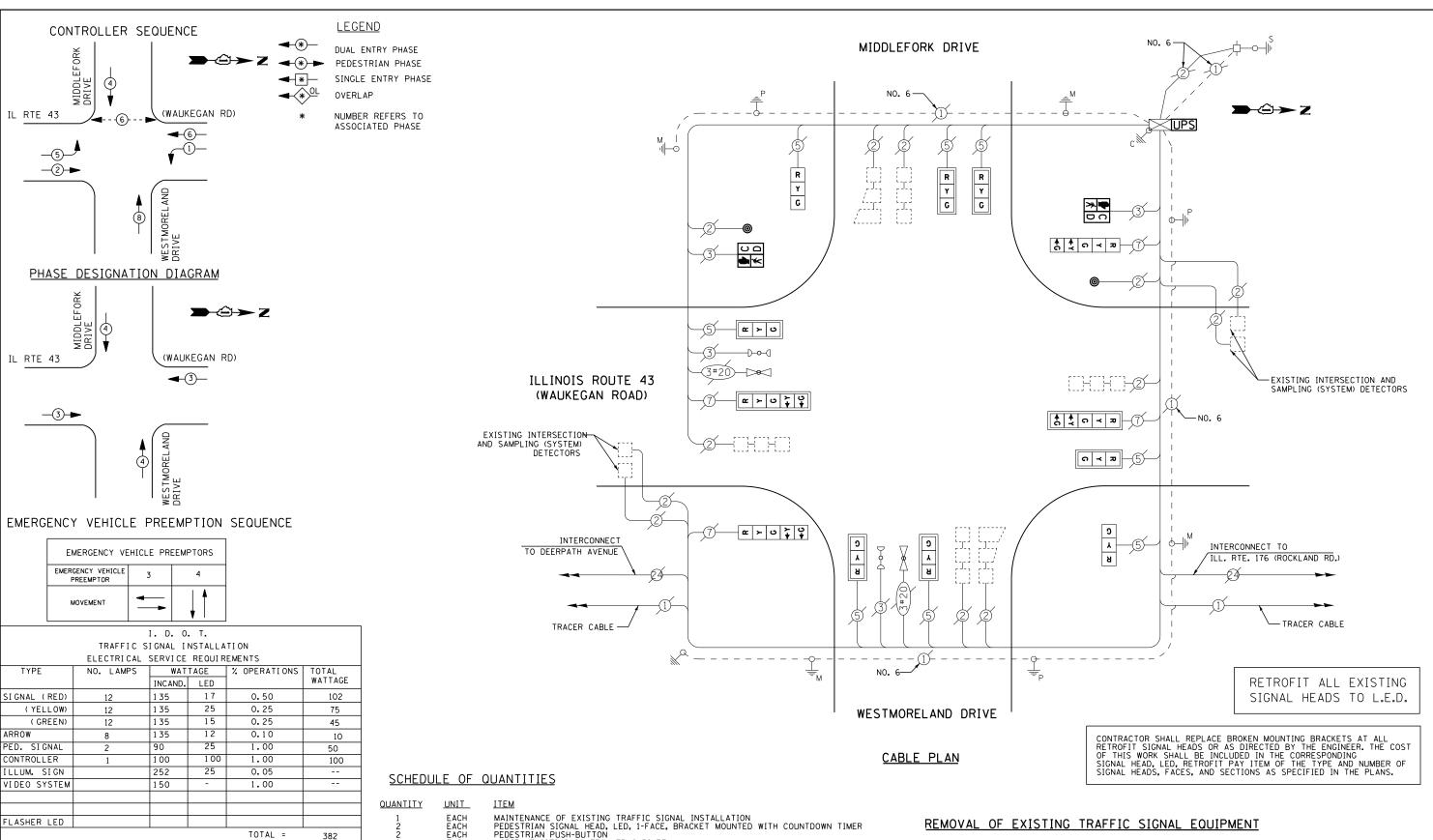
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	IL RTE. 43 (WA	UKEGAN RE) & I	L RTE. 60	(KENNEDY	RD) – CABLE PLAN,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ı	SCHEDIILE OF (NIANTITIES	рндо	E DESIG	N DIAGRAM	1 & EVP SEQUENCE		2012-003 I	LAKE	102	90
ı	SUILDULL OF	ZUANTITIES,	IIIA	L DESIG	1. DIAGITAL	1 & LVI SEGULNOL			CONTRAC	T NO. 6	50T41
ı	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



ENERGY COSTS-

ENERGY SUPPLY -



<u>UANTITY</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 PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
6	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

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

EACH PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSH-BUTTON 2 EACH

TS# 6806 LAKE FOREST

ı	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	Γ
ı	N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\06806_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	1
ı		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	1
ı		PLOT DATE = 3/28/2012	DATE -		REVISED -	1

BILLED TO: CITY OF LAKE FOREST

847-816-5239

CONTACT TERRI BLECK

PHONE

220 E. DEERPATH

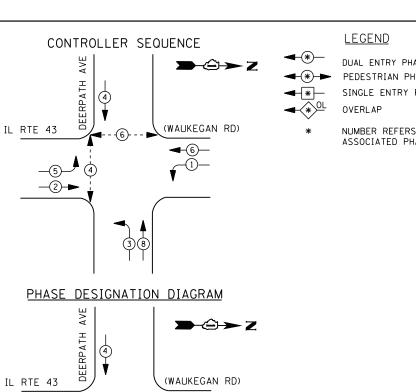
LAKE FOREST, IL 60045

COMMONWEALTH EDISON

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL RTE. 43 &	MIDDLEFOR	K DR	/WESTM	ORELAND DI	R – Cable Plan,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDIILE DE 1	DITANITIES	рнлс	E DESIGI	I DIAGRAM	& EVP SEQUENCE		2012-003 I	LAKE	102	91
SCHEDOLL OF	TOANTITIES,	TIIAS	L DESIGI	V. DIAGNAIVI	& LVI SEGULINGE			CONTRACT	NO.	50T41
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		





EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	-	—

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

	LLLCTRICAL	SLIVICE	NEGUIN	LIVILIVIO	
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	12	1 35	12	0.10	14
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	1 00	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	1
FLASHER LED					

ENERGY COSTS-

−(3) →

BILLED TO: CITY OF LAKE FOREST

220 E. DEERPATH LAKE FOREST, IL 60045

TOTAL =

455

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE

847-816-5239 COMMONWEALTH EDISON DUAL ENTRY PHASE

PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

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 PEDESTRIAN PUSH-BUTTON

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

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DEERPATH AVENUE

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CABLE PLAN

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

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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
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFI
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
5 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
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TS# 10665 LAKE FOREST

-EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

INTERCONNECT TO
/WESTMORELAND DRIVE/

MIDDLEFORK DRIVE

TRACER CABLE

RETROFIT ALL EXISTING

SIGNAL HEADS TO L.E.D.

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet File s 12-001 Sheets SE Lake Co\10665_CAB_LAKE.do DRAWN JDH REVISED CHECKED KMM REVISED REVISED PLOT DATE = 3/28/2012 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 43 (WAUKEGAN ROAD)

EXISTING INTERSECTIONAND SAMPLING (SYSTEM)

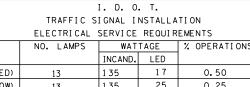
DETECTORS

INTERCONNECT TO ILL. RTE. 60

TRACER CABLE

COUNTY SECTION IL RTE. 43 (WAUKEGAN ROAD) & DEERPATH AVENUE - CABLE PLAN, LAKE 102 92 2012-003 I SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SHEET NO. OF SHEETS STA.





	ELECTRICAL	SERVICE	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	20	1 35	12	0.10	24
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN	2	252	25	0.05	25
VIDEO SYSTEM	1	150	-	1.00	150
FLASHER LED					

TOTAL =

740

ENERGY COSTS-

BILLED TO: CITY OF LAKE FOREST 220 E. DEERPATH

LAKE FOREST, IL 60045

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

8 EACH PEDESTRIAN SIGNAL HEAD

SCHEDULE OF QUANTITIES

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

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

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INTERCONNECT TO GLOUCESTER CROSSING

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ILLINOIS ROUTE 43

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CABLE PLAN

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TRACER CABLE

TS# 10670 LAKE FOREST

RETROFIT ALL EXISTING

SIGNAL HEADS TO L.E.D.

											OINEST
F	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		ILLINOIS ROUTE 43 & EVERETT ROAD	F.A.	SECTION	COUNTY	TOTAL SHEET
l l	N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\10670_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS		11.12.	2012-003 I	LAKE	102 93
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	CABLE PLAN & SCHEDULE OF QUANTITIES			CONTRACT	NO. 60T41
		PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT	

PREEMPTION TO RAILROAD CABINET

EVERETT ROAD

SEQUENCE OF OPERATION

MOVEMENT		OL.	-			+	61 L		OC.	7 1	1	+	Ì	†	1 +	8	ك	← 3		•			→					-		-	4-	-8		F
PIASE		1	+ 5		T	1	+ 5		1	2 + 5	5		2	+ 6			3	+ 7			3	+ 8				4	+ 7				4	+ 8		L
DITERYAL	1	2	3	4	1	5	6	7	8	9	10	11	12	13A	138	14	15	16	17	18	19	20A	208	21	22	23	24A	248	25	26	27	28A	288	^
CHANGE TO		1+4	2+	5 2+	6 4	1	1	2+6	1	*/	2+6	/	/	3+7 3+8		/	1+6 2+5 2+6 4+8	3+6	4+7	*/	1	1-	15 16 15	448	1	1		1+5 2+5	4+8	/	1		2+6 2+5	
LL RTE 43 GRALKEGAN ROAD N/B AR RIGHT SIGNAL	R	R	R	F	1	R	R	R	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
LL RTE. 45 (NALKEGAN ROAD) N/B NO MAST ARM AND FAR LEFT SIGNULS		₽.	R	G ₩	1	R	R	R	G 4-G	G 4-G	G -Y	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
LL RTE, 43 GRALBEGAN ROAD) NEAR S/B IGHT AND FAR RIGHT MAST ARM SIGNALS	R	R	R	F	8	G	0	G	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	1
LL RTE, 43 CHALKEGAN ROAD) S/B ND MAST ARM AND FAR LEFT SERVLS	R → G	R	100			G -	G	G ←Y	R	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	7
VERETT ROAD NEAR E/B IGHT AND FAR RIGHT MAST ARM SIGNALS	R G→	R Y→	R	- Y-		R	R	R	R G→	R G→	R Y-	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	Y	R	R
VERETT ROAD E/B NO MAST ARM AND FAR LEFT STONALS	R	R	R	F	1	R	R	R	R	R	R	R	R	R	R	R +G	R —Y	R —Y	R —G	R	R	R	R	R	G	6 -6	Y	R	G TY	G	G	Y	R	R
VERETT ROAD BYB AR REGHT SIGNAL	R	R	R	F	8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	R	R	R	R	R	0	G	Y	R	8
VERETT ROAD W/B HD MAST ARM AND FAR LEFT SIGNALS	R	R	R	F	2	R	R	R	R	R	R	R	R	R	R	R →G	R +Y	R ←G	R ←Y	6 -←G	G ←G	Y	R	G ←Y	R	R	R	R	R	G	G	Y	R	R
EDESTRIAN SEGNALS CROSSING EVENETT DAD ON THE WEST SIDE OF ILL. RTE. 43	DW	DW	DW	r Di	¥ 0	Y	DW	DM	DW	DW	DM	• 1	DW	DA	DW	DW	DW	DM	DM	DM	DM	DW	DW	DA	DW	DW	DA	DM	DM	DM	DA	DA	DW	1
EDESTRIAN SEGNALS CROSSING EVENETT DAD ON THE EAST SEDE OF ILL. RTE. 43	DA	DW	DW	r Di	w [DW I	DA	DM	e ¥	DW	DW	e 1	DW.	DA	DA	DM	DA	DA	DM	DW	DM	DW	DA	DA	DW	DW	DW	DM	DM	DW	DA	DW	DW	1
EDESTREAM SEGNALS CROSSING ILL. RTE. 45 IN THE HORTH SIDE OF EVERETT ROAD	DA	DW	DW	DI		DW I	DA	DW	DW	DM	DA	DM	DW	DA	DA	DM	DA	DA	DA	= W	OW DW	DW	DA	DA	DM	DW	DA	DA	DW	0 A	DW	DA	DM	6
EDESTRIAN SIGNALS CROSSING ILL. RTE. 43 IN THE SOUTH SIDE OF EVERETT ROAD	DM	DW	DW	f Di	A C	DW I	DA	DW	DW	DA	DM	DM	DW	DA	DW	DW	DW	DW	DW	DW	DW	DA	DA	DM	. 1	DW	DA	DA	DW	. 4	DW	DW	DM	١,

PHASES 2 AND 6 SHALL BE PLACED ON RECALL.

- TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- FLASHING "DON'T WALK" IS TO TERMINATE AT THE COMPLETION OF THE 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.
- W = "WALK"
- FL = FLASHING "DON'T WALK" DW = "DON'T WALK"

NLT = "NO LEFT TURN" OR

C 1D 2 1E R Y R R R	1D 1E Y	-	1F 16		14 1H	11	8	2	2	2	6									
2 1E R Y	1E Y	2	-		111	1,1					1									
2 1E R Y	1E Y	2	-		1H	13					10-3-3	2		3	5					
R Y	Y	-	16	-			1K	1L	1M	1N	19	10	10	1R	15	2	3	4	5	CLEAN
R Y	+	R		2	2	1K	2	1M	2	18	2	10	2	15	2	3	4	5		NORMA
	Y	$\overline{}$	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	Δ
RR		R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	Δ
	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	Δ
RR	R	R	Y	8	R	R	R	R	R	R	R	٧	R	R	R	R	R	R	C	Δ
R R G→	1	R G-Þ	R	R	R	R	R	G	G	G	G	R	R	G	0	G	Y	R	R	Δ
RR	R	R	R	R	R →G	R	R	0	G G	G	G	R	R	G	8	_C 	Y	R	R	Δ
RR	R	R	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Δ
RR	R	R	R	R	R →Y	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	Δ
M DA	DA	DA	FL	DA	DW	DA	DM	DM	DM	DW	DW	DW	DM	DW	DW	DM	DA	DW	DW	Δ
W FL			FL	DW	DW	DW	DW	DM	DM	DW	DW	DA	DM	DM	DW	DW	DA	DM	DA	Δ
M DA	DW	DA	DA	DW	DW	FL	DW	DW	DW	FL	DM	DA	DA	DM	DW	DW	DW	DW	DA	Δ
M DA	DA	DA	DA	DW	DW	DA	DW	FL.	DW	FL	DW	DM	DW	DW	DW	DW	DW	DW	DW	Δ
	TINLT	MLT	NLT	NLT	NLT	MLT	MLT	NLT	NLT	MLT	NLT	NLT	MLT	NLT	MLT	NLT	NLT	NLT	NLT	Δ
-	W	M DA M DA	M DM DM M DM DM	M DM DM DM M DM DM DM	M DM DM DM DM M DM DM DM DM	M DM DM DM DM DM DM M DM DM DM DM DM DM	M DM DM DM DM DM DM DM M DM DM DM DM DM	M DM DM DM DM DM DM DM DM DM DM DM DM DM	M DM DM DM DM DM DM DM DM DM DM DM DM DM	M DM DM DM DM DM DM DM DM DM DM DM DM DM	M DM DM DM DM DM DM DM DM DM DM DM DM DM	M DA DA DA DA DA DA DA DA DA DA DA DA DA	M DM DM DM DM DM DM DM DM DM DM DM DM DM	M DM DM DM DM DM DM DM DM DM DM DM DM DM	M DA DA DA DA DA DA DA DA DA DA DA DA DA	M DA DA DA DA DA DA DA DA DA DA DA DE DA DA DA DA DA DA DA DA DA DA DA DA DA	M DM DM DM DM DM DM DM DM DM DM DM DM DM	M DM DM DM DM DM DM DM DM DM DM DM DM DM	M ON DN DN DN DN DN DN FL DN DN DN DN DN DN DN DN DN DN DN DN DN	M DA DA DA DA DA DA DA DA DA DA DA DA DA

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

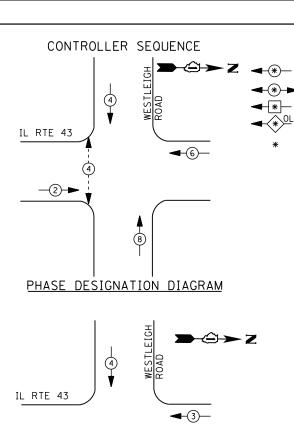
EMERGENCY VEHICLE PREEMPTI	ON	SEC	QUE	NCE	0F	OPE	RATI	ON																												PREEMPTOR	PREENTOR NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL MAMBER	1	1	1		5		5		T	8			8		1	1		11		14		18		1	8		22		2	2		26		1	26	1 500		CLEAS
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1/	1	18	10	1D	18	1	1	н	13	1K	1L	110	1N	1P	10	1R	15	17	10	17	11	1X	17	1Z	1AA	188	1CC	100	1EE	1FF	166	1 11	1,1,1	1KK	2	3	SEQUEN
CHANGE TO EMERGENCY VEHICLE PRESAPTION SEQUENCE OF OPERATION INTERVAL HAMBER	2		3	10	2	10	1	1 3	1	IK	2	111	114	3	10	2	15	1T	3	2 0R ₃	11	1X	2	12	3	188	100	2	1EE	3	166	1HH	2	1KK	3			0
ILL RTE. 43 GRAUKEGAN ROAD) N/B FAR RIGHT SIGNAL	R		R	R	R	R	-	-	1	G	G	G	Y	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	0
ILL RTE. 43 GIALREGAN ROACO N/B DID MAST ARM AND FAR LEFT SEGNALS		Y	R ←Y	R	R	R	9			G -G	G e-Y	¢ +6	Y	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	0
ILL RTE. 43 OMALNEGAN ROAD) NEIR S/B RIGHT AND FAR RIGHT WAST ARM SIGNALS	R		R	G	G	G	1	F	1	R	R	R	R	R	G	G	0	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	0
ELL RTE. 43 GRALREGAN ROACO 5/8 DIO MAST ARM AND FAR LEFT SIGNALS	R		R	G 4-G	G Y	0	1	1	1	R	R	R	R	R	G	6	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Ř	0
EVERETT ROAD NEAR E/B REIGHT AND FAR REIGHT MAST ARM SEGNALS	Y-	G	R	R	R	R	-	8		R	R Y→	R G→	R G→	R G→	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	Y	R	G	G	R	6	0
EVERETT ROAD E/B DND MAST ARM AND FAR LEFT SIGNALS	R		R	R	R	R	-		1	R	R	R	R	R	R	R	R	R	R	+¥ R	R	R	R	R	R	G ⊸G	Y	R	G +G	G ←Y	G	Y	R	G	G	R	0	0
EVERETT ROAD W/B FAR RIGHT SIGNAL	R		R	R	R	R	F	F		R	R	R	R	R	R	R	R	R	R	R	0	Y	R	G	G	R	R	R	R	R	a	Y	R	G	G	R	6	0
EVERETT ROAD W/D DID MAST ARM AND FAR LEFT SIGNALS	R	T	R	R	R	R	F	F		R	R	R	R	R	R	R	R	R	R	R →Y	G +G	Y	R	G →-G	G -Y	R	R	R	R	R	G	Y	R	G	G	R	6	0
PEDESTRIAN SIGNALS CROSSING EVERETY TOAD ON THE WEST SIDE OF ILL. RTG. 43	DI	1 0	DW	FL	DW	FL	D	D	V [MC	DW	DW	DW	DW	FL	DA	FL	DA	DA	DW	DW	DM	DW	DM	DA	DW	DW	DW	DW	DW	DM	DA	DW	DW	DA	DA	DI	0
PEDESTRIAN SIGNALS CROSSING EVERETT MOAD ON THE EAST SIDE OF ILL. RTE. 43	DI	1 0	DM	DM	DW	DI	D	f Di	# E	L	DA	FL	DW	DW	FL	DA	FL	DA	DW	DW	DW	DM	DA	DA	DA	DW	DW	DM	DW	DW	DW	DA	DW	DA	DM	DA	DI	0
PEDESTIFIAN SIGNALS CROSSING ILL. RTE. 43 IN THE NORTH SIDE OF EVENETT ROAD	01	1	DM	DM	DM	01	D	r Di		DA	DW	DW	DM	DM	DW	DA	DA	DW	DW	DW	FL	DM	DA	FL	DM	DW	DW	DM	DW	DM	FL	DW	DW	FL	DM	DW	DI	0
PEDESTREAM SIGNALS CROSSING ILL RTE. 43 ON THE SOUTH SIDE OF EVERETT HOND	DI	1 0	DW	DW	DM	DI	D	D	w	DW	DW	DW	DW	DW	DW	DW	DM	DW	DW	DW	DW	DW	DA	DW	DA	FL	DW	DA	FL	DM	FL	DA	DW	FL	DW	DA	Di	0

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

TS# 10670 LAKE FOREST

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\10670_CAB_LAKE CH4	RDRAWN	-	JDH	REVISED	-
	PLOT SCALE = \$SCALE\$	CHECKED	-	KMM	REVISED	-
	PLOT DATE = 3/28/2012	DATE	-		REVISED	-





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

(4)

1. 5. 0								
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	0	1 35	12	0.10				
PED. SIGNAL	2	90	25	1.00	50			
CONTROLLER	1	100	1 00	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				

I. D. O. T.

ENERGY COSTS- B

FLASHER LED

-(3)**-**►

BILLED TO: CITY OF LAKE FOREST

220 E. DEERPATH
LAKE FOREST, IL 60045

TOTAL =

372

ENERGY SUPPLY - CONTACT TERRI BLECK

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

COMMONWEALTH EDISON

LEGEND

DUAL ENTRY PHASE
PEDESTRIAN PHASE

SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

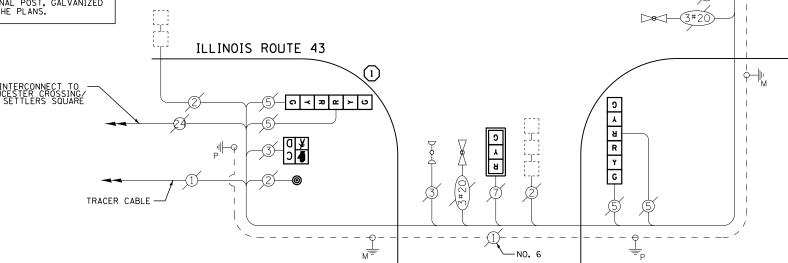
1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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.

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

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.



2 ≻ ∪

WESTLEIGH ROAD

G

CABLE PLAN

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	<u>ITEM</u>
1 1 4	EACH EACH EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. SIGNAL HEAD. LED. 1-FACE. 3-SECTION, MAST-ARM MOUNTED
4 2 4	EACH EACH EACH	SÌĠNAĹ HĒAĎ, ĽĒĎ, Ź-FAČĒ, ℥-ŚĒĊŢĬŌN, BRĀCKET MOŪNTEĎ PEDESTRIAN SIGNAL HEAD, LED, I-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2 1	EACH EACH	PEDESTRIAN PUSH-BUTTON MODIFY EXISTING CONTROLLER CABINET
1	EACH EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

→②→ Z

-UPS

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[O < 7] (5)

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

12 EACH SIGNAL HEAD, 3 - SECTION

2 EACH PEDESTRIAN SIGNAL HEAD

2 EACH PEDESTRIAN PUSH-BUTTON

4 EACH TRAFFIC SIGNAL BACKPLATE

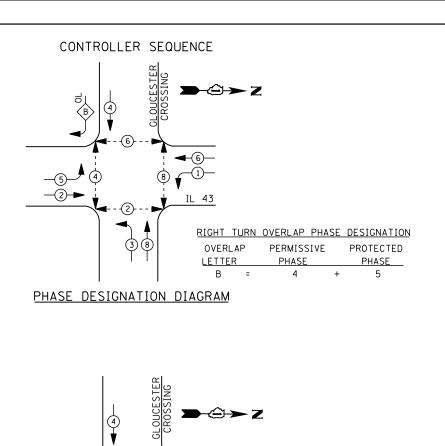
1 EACH SIGNAL POST

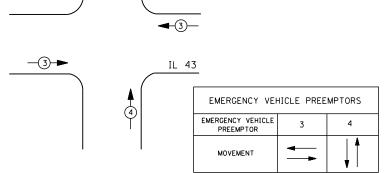
TS# 10675 LAKE FOREST

TRACER CABLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		HILIMOIS	ROUTE 43	AND V	VESTI FIGH	ROAD _ (CABLE PLAN.	F.A. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\10675_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS						& EVP SEQUENCE		2012-003 I	LAKE	102 95
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDOLE OF	QUANTITIES	э, гпазі	E DESIGN.	DIAGNAIVI	a EVP SEQUENCE			CONTRAC	T NO. 60T41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS S	TA.	TO STA.		ILLINOIS FED. AI	D PROJECT	







1. D. O. I.								
TRAFFIC SIGNAL INSTALLATION								
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS				
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	16	1 35	12	0.10	19			
PED. SIGNAL	8	90	25	1.00	200			
CONTROLLER	1	1 00	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00	1			
FLASHER LED								
				TOTAL =	560			

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

ENERGY COSTS-

BILLED TO: CITY OF LAKE FOREST

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
8 EACH PEDESTRIAN PUSH-BUTTON

SCHEDULE OF QUANTITIES

 QUANTITY
 UNIT
 ITEM

 1
 EACH
 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

 4
 EACH
 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER

 8
 EACH
 PEDESTRIAN PUSH-BUTTON

 1
 EACH
 MODIFY EXISTING CONTROLLER CABINET

 1
 EACH
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

 1
 EACH
 UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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

 4
 EACH
 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT

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

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

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

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

CROSSING +9 R G Д **+** С ΨY ◆G **↑ ↑** 0 ≺ **₽** ILLINOIS ROUTE 43 **↑ ↑** 0 ≺ **₽** NO. 6-R Y Y Y + C + C + C INTERCONNECT TO WESTLEIGH ROAD ~ > U \ \ \ \ \ \ INTERCONNECT TO EVERETT ROAD 0 R Y C **№** C , A Y Я TRACER CABLE TRACER CABLE RETROFIT ALL EXISTING CABLE PLAN SIGNAL HEADS TO L.E.D.

GLOUCESTER

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

CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEADS 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.

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TS# 10676 LAKE FOREST

FILE NAME = USER NAME = \$USER\$ DESIGNED - DW REVISED
Nt\Projects3\12004\DesignCAD\Sheet Files | 12-001 Sheets SE Loke Co\10676_CAB_LAKE.dgr | DRAWN - JDH REVISED
PLOT SCALE = \$SCALE\$ CHECKED - KMM REVISED
PLOT DATE = 3/28/2012 DATE - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 43 & GLOUCESTER CROSSING— CABLE PLAN,
SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE

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

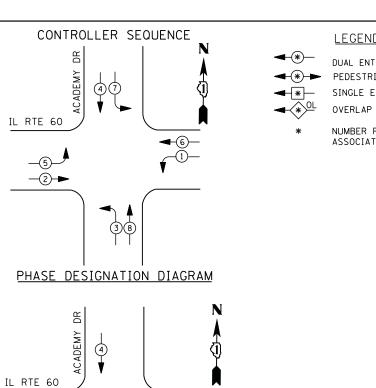
| F.A. RTE. | SECTION | 2012-003 | |

COUNTY TOTAL SHEETS NO.

LAKE 102 96

CONTRACT NO. 60T41





3—

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	—	†				

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)	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	0	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								
I				TOTAL =	7.41			

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

ENERGY COSTS-

N:\Projects3\12004\DesignCAD\Sheet File

FILE NAME =

−(3)**→**

BILLED TO: CITY OF LAKE FOREST 220 E. DEERPATH

LAKE FOREST, IL 60045

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239

s 12-001 Sheets SE Lake Co\11708_CAB_LAKE.do

COMMONWEALTH EDISON

DESIGNED

CHECKED

DRAWN

DATE

DW

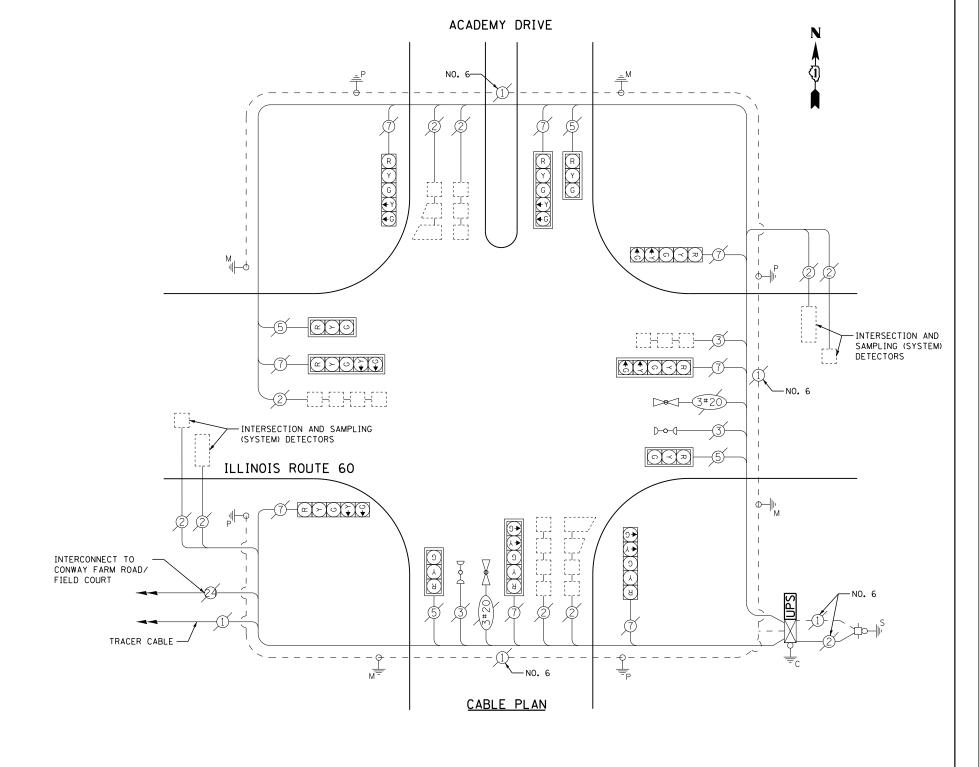
JDH

KMM

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u>

REVISED

REVISED

REVISED

REVISED

EACH EACH EACH

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

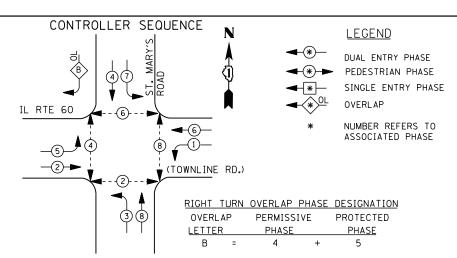
TS# 11708 LAKE FOREST

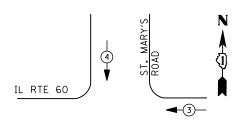
COUNTY TOTAL SHEETS NO.

LAKE 102 97 SECTION ILLINOIS ROUTE 60 & ACADEMY DRIVE - CABLE PLAN, 2012-003 I SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**







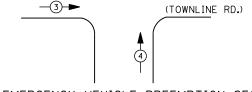
REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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.

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.



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT		1			

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

	ELECTRI CAL	SERVI CE	REQUI R	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	15	150	17	0.50	128
(YELLOW)	15		25	0.25	94
(GREEN)	15		15	0.25	56
ARROW	20		12	0.10	24
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		1 00	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM			-	1.00	150
FLASHER LED					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

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

SCHEDULE OF QUANTITIES

QUANTITY 1	<u>UNIT</u> EACH	ITEM MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
5	EACH EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
ĭ	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
16	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
l	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.

EACH SIGNAL HEAD, 3 - SECTION

SIGNAL HEAD, 5 - SECTION 10 EACH EACH TRAFFIC SIGNAL BACKPLATE

3 EACH STEEL POST

(GREEN)

NO. 6-(GREEN)

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CABLE PLAN

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ILL. RTE. 60

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ROAD

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ST.

(TOWNLINE RD.)

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MARY'S

PEDESTRIAN PUSH-BUTTON 16 EACH 8 EACH PEDESTRIAN SIGNAL HEAD

TS# 6895 METTAWA

TRACER CABLE

INTERCONNECT TO

WEST ENT. DRIVE

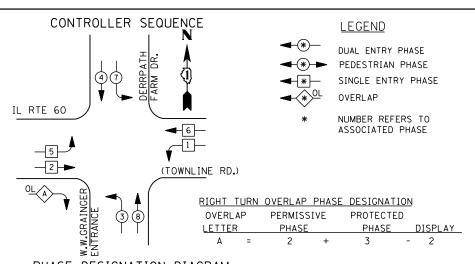
FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\06895_CAB_LAKE.dg DRAWN JDH REVISED CHECKED REVISED PLOT DATE = 3/28/2012 DATE REVISED

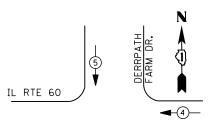
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

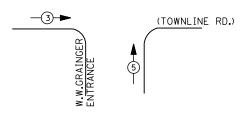
IL RTE. 60 (TOWNLINE RD.) AND ST. MARY'S RD. - CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

SECTION COUNTY LAKE 102 98 2012-003 I CONTRACT NO. 60T41









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4	5			
MOVEMENT	-	-				

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)	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	12	1 35	12	0.10	14			
PED. SIGNAL	İ	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 = 410								

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF METTAWA

26225 N. RIVERWOODS BLVD. METTAWA, IL 60045

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u>

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

INTERCONNECT TO ST. MARY'S RD.

TRACER CABLE -

ILL. RTE.60

\$\$\$\\ \alpha

		TS# 1170)1
		METTAWA	7
F.Δ.	GEOTION.	TOTAL SH	FFT

(TOWNLINE RD.)

-TRACER CABLE

INTERCONNECT TO

RIVERWOODS RD./

BRADLEY RD.

DEERPATH FARM

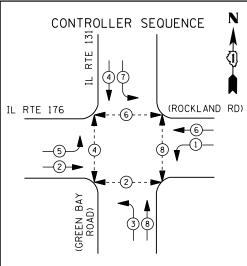
ENTRANCE

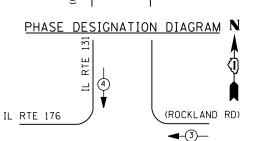
W.W.GRAINGER ENTRANCE

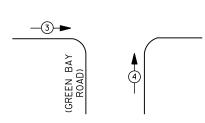
CABLE PLAN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE. 60 AND W.W. GRAINGER ENT. – CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE			F.A.	SECTION	COUNTY	TOTAL	SHEET			
N:\Projects3\12004\DesignCAD\Sheet Files	12-001 Sheets SE Lake Co\11701_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS				11122	2012-003 I	LAKE	102	99			
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	SCHEDOLE OF	QUANTITIES,	PHASE	. DESIG	N. DIAGKAN	1 & EVP SEQUENCE			CONTRACT	T NO. 6	OT41
	PLOT DATE = 3/28/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		









EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	†	↓ †

ELECTRICAL SERVICE REQUIREMENTS NO. LAMPS WATTAGE % OPERATIONS TOTAL WATTAGE INCAND. LED 102 1 35 17 0.50 25 0.25 12 135 75 1 35 15 0.25 12 1 35 0.10 16

(YFIIOW) (GREEN) 45 ARROW 19 PED. SIGNAL 200 CONTROLLER 100 100 1.00 100 LLUM. SIGN 0.05 VIDEO SYSTEM --150 1.00 FLASHER LED

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

ENERGY COSTS-

TYPE

SIGNAL (RED)

BILLED TO: VILLAGE OF LAKE BLUFF 40 E. CENTER AVENUE

LAKE BLUFF, IL 60044 ENERGY SUPPLY -

CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

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.

- 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.

ILLINOIS ROUTE 176 (ROCKLAND ROAD) EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR

NO. 6-

INTERCONNECT TO U.S. RTE. 41 EAST RAMR (SKOKIE VALLEY ROAD/ WASHINGTON AVENUE)

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

TRACER CABLE

CABLE PLAN EXISTING INTERSECTION AND SAMPLING (SYSTEM)

NOTE: PUSH BUTTON "B" SHALL PLACE A CALL IN PHASED 4 AND 6

ILLINOIS ROUTE 131

G

(GREEN BAY ROAD)

EXISTING INTERSECTION

DETECTORS

AND SAMPLING (SYSTEM)

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~ > U \ \ \ \

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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-(3#20)

CALLING DETECTOR

(3)

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

EACH SIGNAL POST TS# 7020 LAKE BLUFF

EXISTING INTERSECTION

AND SAMPLING (SYSTEM)

DETECTOR

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED - 5/4/12
N:\Projects3\12004\DesignCAD\Sheet Files	\12-001 Sheets SE Lake Co\07020_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -
	PLOT DATE = 5/8/2012	DATE -		REVISED -

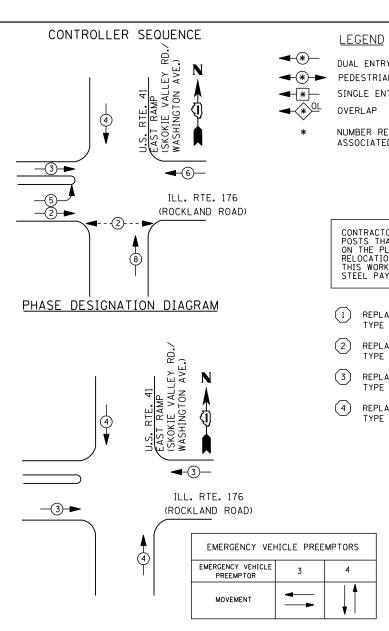
TOTAL =

541

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

				_ DLC	
IL RTE. 131 (GREEN BAY RD) & IL RTE. 176 (ROCKLAND RD)- CABLE PLAN,	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDULE OF QUANTITIES, PHASE DESIGN, DIAGRAM & EVP SEQUENCE		2012-003 I	LAKE	102	100
SUILEDGE OF GOANTITIES, I HASE DESIGN. DIAGRAM & EVI SEGUENCE			CONTRAC	T NO. 6	OT41
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		





I. D. O. T.							
TRAFFIC SIGNAL INSTALLATION							
	ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS						
		INCAND.	LED	WATTAGE			
SIGNAL (RED)	14	1 35	1 7	0.50	119		
(YELLOW)	14	1 35	25	0.25	88		
(GREEN)	14	1 35	15	0.25	53		
ARROW	4	1 35	12	0.10	5		
PED. SIGNAL	2	90	25	1.00	50		
CONTROLLER	1	100	1 00	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	ı	1.00	1		
FLASHER LED							
				TOTAL =	415		

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT TERRI BLECK

847-816-5239 PHONE

COMMONWEALTH EDISON

DUAL ENTRY PHASE

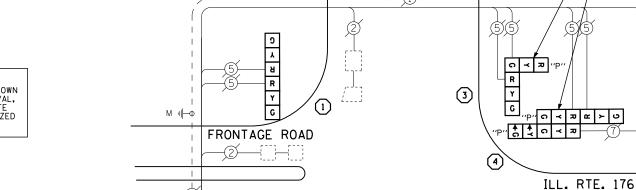
PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

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.

- 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.



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EXISTING INTERSECTION -AND PROPOSED SAMPLING (SYSTEM) DETECTORS

INTERCONNECT TO U.S. RTE. 41 WEST RAMP

(SHAGBARK RD./WASHINGTON AVE.)

TRACER CABLE

CABLE PLAN

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U.S. RTE. 41 EAST RAMP

(SKOKIE VALLEY RD./

WASHINGTON AVE.)

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
i	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
Ī	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
ī	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2 3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3	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	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED,
		1-3 SECTION, BRACKET MOUNTED
1	EACH	COMBINATION SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION OPTICALLY PROGRAMMED,
		1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

SIGNAL HEAD, 3 - SECTION SIGNAL HEAD, 5 - SECTION 12 EACH FACH

PEDESTRIAN SIGNAL HEAD FΔCH EACH PEDESTRI AN PUSH-BUTTON

EACH SIGNAL POST

TRAFFIC SIGNAL BACKPLATE EACH

> TS# 12275 LAKE BLUFF

-TRACER CABLE

\INTERCONNECT TO ILL. 131 (GREENBAY RD.)

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet Files 12-001 Sheets SE Lake Co\12275_CAB_LAKE.do DRAWN JDH REVISED CHECKED KMM REVISED PLOT DATE = 3/28/2012 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** US RTE. 41 AT IL RTE. 176 (ROCKLAND RD.) EAST RAMP - CABLE PLAN, SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

COUNTY SECTION 2012-003 I LAKE 102 101 CONTRACT NO. 60T41

-FRONTAGE ROAD

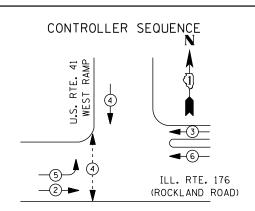
SIGNAL HEADS

(ROCKLAND ROAD)

"P" \$ \$ 0 ≺ 2

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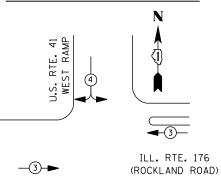


LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



(1)	REPLACE 14 FT. PAINTED POST.	RE-USE EXISTING
\smile	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.

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.

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	†				

EMERGENCY VEHICLE PREEMPTION SEQUENCE

I. D. O. T.							
TRAFFIC SIGNAL INSTALLATION							
	ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS						
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	11	1 35	1 7	0.50	94		
(YELLOW)	11	1 35	25	0.25	69		
(GREEN)	11	1 35	15	0.25	41		
ARROW	4	1 35	12	0.10	5		
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	ı	1.00			
FLASHER LED							
				TOTAL =	359		

ENERGY COSTS-BILLED TO: IDOT DISTRICT 1

USER NAME = \$USER\$

PLOT DATE = 3/28/2012

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201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK ENERGY SUPPLY -PHONE

FILE NAME =

N:\Projects3\12004\DesignCAD\Sheet File

847-816-5239 COMMONWEALTH EDISON

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

КММ

SCHEDULE OF QUANTITIES

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

TRACER CABLE -

INTERCONNECT TO

ILL. RTE. 43 (WAUKEGAN RD.)

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

EACH SIGNAL POST

U.S. RTE. 41 WEST SAMP (SHAGBARK RD./ WASHINGTON AVE.)

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CABLE PLAN

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ILL. ROUTE 176

(ROCKLAND ROAD)

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TRAFFIC SIGNAL BACKPLATE FACH

> TS# 12280 LAKE BLUFF

FRONTAGE ROAD

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-EXISTING INTERSECTION

AND PROPOSED SAMPLING (SYSTEM) DETECTOR

-TRACER CABLE

U.S. RTE. 41 EAST RAMP

(SKOKIE VALLEY RD/

WASHINGTON AVE.)

\$ \$ 0 < 2 (7)

(3)

REVISED REVISED REVISED REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY US RTE. 41 AT IL RTE. 176 (ROCKLAND ROAD) WEST RAMP - CABLE PLAN, FRAE. 2012-003 I LAKE 102 102 SCHEDULE OF QUANTITIES, PHASE DESIGN. DIAGRAM & EVP SEQUENCE CONTRACT NO. 60T41 SCALE: N.T.S. SHEET NO. OF SHEETS STA.