08-03-12 LETTING ITEM 041

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN NORTHEAST LAKE COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION **SECTION 2012-004 I**

LAKE COUNTY

C-91-350-12

HIGHWAY STANDARDS

0

0

0

 \circ

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

720001-01 SIGN PANEL MOUNTING DETAIL

720006-03 SIGN PANEL ERECTION DETAILS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

UNITERRUPTABLE POWER SUPPLY (UPS)

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

LOCATION MAP SEE SHEET NO. 3

LAKE COUNTY

SECTION

2012-004 I

D-91-350-12

LAKE 97 I ILLINOIS CONTRACT NO. 60T42

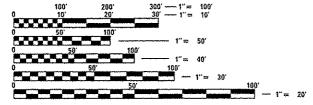
Expires 11-30-2013 05/18/11

LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DIM M. O'Keyi M.
DIRECTOR OF HIGHWAYS, REGION ENGINEER John D. Baranzolli, P.Z. William R. Frez B.

Chicago, IL '60631-3551

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

OR 811

PROJECT ENGINEER: SUDUD MAHMOUD PROJECT MANAGER: DARYLE DREW

CONTRACT NO. 60T42

INDEX OF SHEETS

1 COVER SHEET 2 INDEX OF SHEETS 3 LOCATION MAP 4-9 SUMMARY OF QUANTITIES 10-15 DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

TRAFFIC SIGNAL PLANS:

PAGE*	TS*	INTERSECTION NAME
16	7030	IL ROUTE 131 (GREEN BAY RD) AT WADSWORTH RD
	21545	IL ROUTE 21 (MILWAUKEE AVE) AT GAGES LAKE ROAD
18	21544	IL ROUTE 21 (MILWAUKEE AVE) AT IL 120 SOUTH RAMP
19	21543	IL ROUTE 21 (MILWAUKEE AVE) AT IL 120 NORTH RAMP
20	21195	IL ROUTE 132 (GRAND AVE) AT BELLE PLAINE STREET
21	21119	IL ROUTE 132 (GRAND AVE.) AT STONEBROOK DRIVE
22	21118	IL RTE. 132 (GRAND AVE.) AT ROLLINS ROAD
23	21117	IL RTE 132 (GRAND AVE) AT ALMOND/HUTCHINS RD
24	21115	IL 132 (CRAND AVE.) AT CURNEE MILLS WEST / WELLS
	21110	IL 132 (GRAND AVE.) AT GURNEE MILLS SE ACCESS/ TRI STATE
	21000	IL 132 (GRAND AVE) AT GURNEE MILLS SW ACCESS
	11930	IL ROUTE 120 AT HUNT CLUB ROAD
	7085	IL ROUTE 132 (GRAND AVE) AT DILLEYS ROAD
	7065	IL RTE 132 (GRAND AVE) AT O'PLAINE ROAD
	7062	IL ROUTE 132 (GRAND AVE) AT BROOKSIDE DRIVE
	7060	ILLINOIS RTE 132 (GRAND AVE) AT HUNT CLUB ROAD
	7055	IL 132 (GRAND AVE) AT SIX FLAGS PKWY / LAWSON BLVD
	6732	IL ROUTE 21 (MILWAUKEE AVE) AT SIX FLAGS
	6730	IL ROUTE 21 (MILWAUKEE AVE) AT WASHINGTON STREET
	6705	IL RTE 21 (RIVERSIDE DR) AT IL RTE 132 (GRAND AVE)
	6551	IL RTE 132 (GRAND AVE) AT FIRST STREET
	6618	US ROUTE 45 AT DADA DRIVE / GRANT DRIVE
	21717	IL RTE 43 (WAUKEGAN RD.) AT ATKINSON AVENUE
	21715	IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 4
	21085	IL ROUTE 137 (SHERIDAN RD) AT 22ND ST / MARTIN LUTHER KING DR
	21010	IL RTE 137 (AMSTUTZ EXPY) AT IL RTE 137 (BUCKLEY RD)
	11598	SHERIDAN ROAD AT "D" STREET / METRA ENT.
	11597	SHERIDAN ROAD AT FARRAGUT AVENUE
	11596 11595	SHERIDAN ROAD AT 24TH STREET
	9415	SHERIDAN ROAD AT BUCKLEY ROAD
	9407	IL ROUTE 137 (SHERIDAN RD.) AT 14TH STREET
	9385	IL ROUTE 137 (SHERIDAN RD.) AT 10TH ST / ABBOTT LABORATORIES
	7175	IL ROUTE 131 (GREEN BAY RD.) AT ARGONNE DRIVE IL RTE 137 (BUCKLEY RD) AT RAY STREET / FORRESTAL VILLAGE
	7170	IL ROUTE 137 (BUCKLEY ROAD) AT ILLINOIS STREET
	7160	ILLINOIS RTE 137 (BUCKLEY RD) AT LEWIS AVENUE
	7125	IL ROUTE 137 AT ABBOTT NO ENTRANCE / GATE 3
	7120	IL ROUTE 137 (BUCKLEY RD.) AT MISSISSIPPI STREET
54	- 120	TO MANUE TO MENDEUTER WAY WE MEDGESSELLE DEUTER

PAGE*	TS*	INTERSECTION NAME
55	7115	IL ROUTE 137 (BUCKLEY ROAD) AT GREAT LAKES DRIVE
56	7015	IL RTE 131 (GREEN BAY RD) AT IL RTE 137 (BUCKLEY RD)
57	6820	IL ROUTE 43 (WAUKEGAN RO.) AT ABBOTT LABS CATE 2
58	6815	IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 1/ WACKER PARK DR.
59	6800	IL RTE 43 (WAUKEGAN RD) AT IL RTE 137 (BUCKLEY RD)
	7110	IL RTE 137 (BUCKLEY RD) AT ST MARY'S RD
	21969	IL RTE 120 AT MILL ROAD
	21695	IL ROUTE 43 (WAUKEGAN RD) AT BAXTER DR / NORMAN DR
	15131	IL ROUTE 137 (SHERIDAN RD) AT S. GENESEE ST
	15060	IL RTE. 137 (SHERIDAN RD.) AT GREENWOOD
	15035	IL ROUTE 137 (SHERIDAN RD.) AT BELVIDERE ROAD
	15030 15022	IL ROUTE 137 (SHERIDAN RD.) AT SOUTH STREET
	15022	IL ROUTE 131 (GREEN BAY RD) AT BROOKSIDE AVE IL ROUTE 131 (GREEN BAY RD) AT IL ROUTE 132 (GRAND AVE)
	14974	BELVIDERE ROAD AT BELVIDERE MALL EAST ENTRANCE
	14972	BELVIDERE RD. AT LAKE PLAZA / PIONEER ST
	14970	BELVIDERE ROAD AT KELLER AVENUE
	14965	BELVIDERE ROAD AT GENESEE STREET
73	14960	BEVIDERE ROAD AT MARTIN LUTHER KING JR. AVENUE / COUNTY ST.
74	14955	BELVIDERE STREET AT MCALISTER AVENUE / LIBERTY STREET
	14950	BELVIDERE ROAD AT JACKSON STREET
	14945	BELVIDERE ROAD AT GLEN ROCK AVENUE
	14940	BELVIDERE ST AT LEWIS AVENUE
	14917	IL ROUTE 43 (WAUKEGAN RD) AT LAKESIDE DRIVE/BAXTER
	14915	IL ROUTE 43 (WAUKEGAN RD) AT LAKEHURST NORTH DR / NORTHPOINT BLVD
	14910 14905	IL ROUTE 43 (WAUKEGAN RD) AT FOUNTAIN SOUARE PL
	7820	IL ROUTE 43 (WAUKEGAN RD) AT LAKEHURST RD (SOUTH DR) IL ROUTE 131 (GREEN BAY RD) AT IL ROUTE 120 (BELVIDERE RD)
	7010	IL ROUTE 120 AT O'PLAINE ROAD
	6810	IL ROUTE 43 AT 22ND ST / M.L. KING JR. DRIVE
	7005	IL ROUTE 120 AT KNIGHT AVENUE
86	12145	IL ROUTE 137 (SHERIDAN RD) AT 7TH STREET
	8795	IL ROUTE 137 (SHERIDAN RD) AT 9TH STREET
	20908	IL ROUTE 137 (SHERIDAN RD) AT 34TH STREET
	20907	IL ROUTE 137 (SHERIDAN RD) AT 33RD STREET
	20906	IL ROUTE 137 (SHERIDAN RD) AT 31ST STREET
	20905	IL ROUTE 137 (SHERIDAN RD) AT 25TH STREET (SHILOH BLVD)
	20904 20903	IL ROUTE 137 (SHERIDAN RD) AT 29TH STREET
	20903	IL ROUTE 137 (SHERIDAN RD) AT 27TH STREET
	20901	IL ROUTE 137 (SHERIDAN RD) AT 23RD STREET IL ROUTE 137 (SHERIDAN RD) AT IL ROUTE 173 (21ST ST)
	20900	IL ROUTE 173 AT LEWIS AVENUE
	7195	IL RTE 137 (SHERIDAN RD) AT WADSWORTH RD
1		עון ווויוועמעונו ווין ווויועמייאיייי יעל פייי פייי

GENERAL NOTES:

- 1. CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEAD INTERSECTIONS OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING SIGNAL HEAD, LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES, AND SECTIONS AS SPECIFIED IN THE PLANS.
- 2. CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL. RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE TRAFFIC SIGNAL POST. GALVANIZED STEEL PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.
- 3. DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTORSHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION, THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION. ANY RLR CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION:

6705 - IL ROUTE 21 (RIVERSIDE DR) AT IL ROUTE 132 (GRAND AVE)

7060 - IL ROUTE 132 (GRAND AVE) AT HUNT CLUB ROAD 7085 - IL ROUTE 132 (GRAND AVE) AT DILLEYS ROAD

VILLAGE OF GURNEE 325 N. O'PLAINE RD GURNEE, IL 60031-2636 847-599-7500

REDFLEX TRAFFIC SYSTEMS, INC. 23751 N. 23RD AVE, STE 150 PHOENIX, AZ 85085-1854 623-207-2000

RLR CAMERA LOCATION:

6800 - IL ROUTE 43 (WAUKEGAN RD) AT IL ROUTE 137 (BUCKLEY RD) 7015 - IL ROUTE 131 (GREEN BAY RD) AT IL ROUTE 137 (BUCKLEY RD)

CITY OF NORTH CHICAGO 1850 LEWIS AVE NORTH CHICAGO, IL 60064 847-596-8724

REDFLEX TRAFFIC SYSTEMS, INC. 23751 N. 23RD AVE, STE 150 PHOENIX, AZ 85085-1854

RLR CAMERA LOCATION:
7820 - IL ROUTE 131 (GREEN BAY RD) AT IL ROUTE 120 (BELVIDERE RD)
15020 - IL ROUTE 131 (GREEN BAY RD) AT IL ROUTE 132 (GRAND AVE)

CITY OF WAUKEGAN 100 N, MARTIN LUTHER KING JR. AVE 400 EISENHOWER LANE NORTH WAUKEGAN, IL 60085 E039-317-5700 639-317-5700

COUNTY TOTAL SHEETS NO. LAKE 97 2 CONTRACT NO. 60T42

		,	···	·			
FILE MANE :	USER NAME : \$USERS	DESIGNED -	D₩	REVISED -			F.A. SECTION
Hi/Projecte3/12994/DeergnCAD/Shant Files	12-882 Sheets NE Loke Co\68142 LAKE.index.	KORAWN -	JDH	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS	1535.
	PLOT SCALE : *SCALE*	CHECKED .	KMM	REVISED	DEPARTMENT OF TRANSPORTATION	HEDEA OF SHEETS	2012-004 [
	PLOT DATE + 5/16/2012	DATE .		REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	Tur bross eco. 410





LOCATION TS* IL ROUTE 131 (GREEN BAY RD) AT WADSWORTH RD IL ROUTE 21 (MILWAUKEE AVE) AT GAGES LAKE ROAD
IL ROUTE 21 (MILWAUKEE AVE) AT IL 120 SOUTH RAMP 21545 IL ROUTE 21 (MILWAUKEE AVE) AT IL 120 NORTH RAMP 21195 IL ROUTE 132 (GRAND AVE) AT BELLE PLAINE STREET 21119 IL ROUTE 132 (GRAND AVE.) AT STONEBROOK DRIVE 21118 IL RTE. 132 (GRAND AVE.) AT ROLLINS ROAD 7. 21118 IL RTE. 132 (GRAND AVE.) AT ROLLINS ROAD
8. 21117 IL RTE 132 (GRAND AVE.) AT ALMOND/HUTCHINS RO
9. 21115 IL 132 (GRAND AVE.) AT GURNEE MILLS WEST / WELLS
10. 21110 IL 132 (GRAND AVE.) AT GURNEE MILLS SE ACCESS/ TRI STATE
11. 21000 IL 132 (GRAND AVE.) AT GURNEE MILLS SW ACCESS
12. 11930 IL ROUTE 120 AT HUNT CLUB ROAD
13. 7085 IL ROUTE 132 (GRAND AVE.) AT DILLEYS ROAD
14. 7065 IL ROUTE 132 (GRAND AVE.) AT D'PLAINE ROAD
15. 7062 IL ROUTE 132 (GRAND AVE.) AT BROOKSIDE DRIVE IL ROUTE 132 (GRAND AVE) AT BROOKSIDE DRIVE 15. 7062 15. 7062 IL ROUTE 132 (GRAND AVE) AT BROOKSIDE DRIVE
16. 7060 ILLINOIS RTE 132 (GRAND AVE) AT HUNT CLUB ROAD
17. 7055 IL 132 (GRAND AVE) AT SIX FLAGS PKWY / LAWSON BLVD
18. 6732 IL ROUTE 21 (MILWAUKEE AVE) AT SIX FLAGS
19. 6730 IL ROUTE 21 (MILWAUKEE AVE) AT WASHINGTON STREET
20. 6705 IL RTE 21 (RIVERSIDE DR) AT IL RTE 132 (GRAND AVE)
21. 6551 IL RTE 132 (GRAND AVE) AT FIRST STREET
22. 6618 US ROUTE 45 AT DADA DRIVE / GRANT DRIVE
23. 21717 IL RTE 43 (WAUKEGAN RD.) AT ATKINSON AVENUE
24. 21715 IL ROUTE 43 (WAUKEGAN RD.) AT ABROTT LARS GATE 4 IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 4 24. 21715 25. 21085 IL ROUTE 137 (SHERIDAN RD) AT 22ND ST / MARTIN LUTHER KING DR IL RTE 137 (AMSTUTZ EXPY) AT IL RTE 137 (BUCKLEY RD) 27. 11598 SHERIDAN ROAD AT "D" STREET / METRA ENT. 28. 11597 SHERIDAN ROAD AT FARRAGUT AVENUE 29. 11596 SHERIDAN ROAD AT 24TH STREET 30. 11595 SHERIDAN ROAD AT BUCKLEY ROAD SHERIDAN ROAD AT BUCKLEY ROAD

IL ROUTE 137 (SHERIDAN RD.) AT 14TH STREET

IL ROUTE 137 (SHERIDAN RD.) AT 10TH ST / ABBOTT LABORATORIES

IL ROUTE 131 (GREEN BAY RD.) AT ARGONNE DRIVE

IL RTE 137 (BUCKLEY RD) AT RAY STREET / FORRESTAL VILLAGE 32. 9407 IL ROUTE 137 (BUCKLEY ROAD) AT ILLINOIS STREET 35. 7170 ILLINOIS RTE 137 (BUCKLEY RD) AT LEWIS AVENUE ILLINOIS RTE 137 (BUCKLEY RD) AT LEWIS AVENUE
IL ROUTE 137 AT ABBOTT NO ENTRANCE / GATE 3
IL ROUTE 137 (BUCKLEY RD.) AT MISSISSIPPI STREET
IL ROUTE 137 (BUCKLEY ROAD) AT GREAT LAKES DRIVE
IL RTE 131 (GREEN BAY RD) AT IL RTE 137 (BUCKLEY RD)
IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 2
IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 1/ WACKER PARK DR.
IL RTE 43 (WAUKEGAN RD.) AT ST MARY'S RD. 37. 7125 38, 7120 39. 7115 41. 6820 42. 6815 43. 6800 44, 7110 IL RTE 137 (BUCKLEY RD) AT ST MARY'S RD 45. 21969 IL RTE 120 AT MILL ROAD 46. 21695 IL ROUTE 43 (WAUKEGAN RD) AT BAXTER DR / NORMAN DR 47. 15131 IL ROUTE 137 (SHERIDAN RD) AT S. GENESEE ST 48. 15060 IL RTE. 137 (SHERIDAN RD.) AT GREENWOOD 49. 15035 IL ROUTE 137 (SHERIDAN RD.) AT BELVIDERE ROAD
50. 15030 IL ROUTE 137 (SHERIDAN RD.) AT SOUTH STREET
51. 15022 IL ROUTE 131 (GREEN BAY RD) AT BROOKSIDE AVE
52. 15020 IL ROUTE 131 (GREEN BAY RD) AT IL ROUTE 132 (GRAND AVE) 53. 14974 BELVIDERE ROAD AT BELVIDERE MALL EAST ENTRANCE 54. 14972 BELVIDERE RD. AT LAKE PLAZA / PIONEER ST 55. 14970 BELVIDERE ROAD AT KELLER AVENUE 56. 14965 BELVIDERE ROAD AT GENESEE STREET 57. 14960 BEVIDERE ROAD AT MARTIN LUTHER KING JR. AVENUE / COUNTY ST. 58. 14955 BELVIDERE STREET AT MCALISTER AVENUE / LIBERTY STREET 59. 14950 BELVIDERE ROAD AT JACKSON STREET
60. 14945 BELVIDERE ROAD AT CLEN ROCK AVENUE
61. 14940 BELVIDERE ST AT LEWIS AVENUE
62. 14917 IL ROUTE 43 (WAUKEGAN RD) AT LAKESIDE DRIVE/BAXTER 63. 14915 IL ROUTE 43 (WAUKEGAN RD) AT LAKEHURST NORTH DR / NORTHPOINT BLVD 64, 14910 IL ROUTE 43 (WAUKEGAN RD) AT FOUNTAIN SQUARE PL 65. 14905 IL ROUTE 43 (WAUKEGAN RD) AT LAKEHURST RD (SOUTH DR) 66. 7820 IL ROUTE 131 (GREEN BAY RD) AT IL ROUTE 120 (BELVIDERE RD) IL ROUTE 120 AT O'PLAINE ROAD 68. 6810 IL ROUTE 43 AT 22ND ST / M.L. KING JR. DRIVE 69. 7005 IL ROUTE 120 AT KNIGHT AVENUE
70. 12145 IL ROUTE 137 (SHERIDAN RD) AT 7TH STREET
71. 8795 IL ROUTE 137 (SHERIDAN RD) AT 9TH STREET
72. 20908 IL ROUTE 137 (SHERIDAN RD) AT 34TH STREET 73. 20907 IL ROUTE 137 (SHERIDAN RD) AT 33RD STREET 74. 20906 IL ROUTE 137 (SHERIDAN RD) AT 31ST STREET 75. 20905 IL ROUTE 137 (SHERIDAN RD) AT 25TH STREET (SHILOH BLVD) 76. 20904 IL ROUTE 137 (SHERIDAN RD) AT 29TH STREET 77. 20903 IL ROUTE 137 (SHERIDAN RD) AT 27TH STREET 78. 20902 IL ROUTE 137 (SHERIDAN RD) AT 23RD STREET 79. 20901 IL ROUTE 137 (SHERIDAN RD) AT IL ROUTE 173 (21ST ST) 80. 20900 IL ROUTE 173 AT LEWIS AVENUE 81. 7195 IL RTE 137 (SHERIDAN RD) AT WADSWORTH RD

COTIL ENGINEERING CONSULTANTS 8619
Chicago Chi

······································			1			3	OWNERS OF	OUANTITIES FUNDING P			iv (UNUMIN	002	. /				 		
OLUMN	T.C.:	THERETATION		LAKE		NORTH	T			PARK	THIRD	WARREN	GURNEE	ABBOTT		NAVFAC		SIMON PROP.	IMPERIAL	CARDINAL
UMBER	TS*	INTERSECTION	STATE	COUNTY	GURNEE	CH1CAGO	WAUKEGAN	HARBOR	ZION	CITY		RD. DIST.		LABS	NAVY	MIDWEST	METRA	SIMON PROP. GROUP (ILLINDIS) L.P.	REALTY	HEALTH
3-	7030	TE ROUTE (31 I GREEN BAY RD) AT WADSWORTH RD	95%	5%-														(
3	21545	IL ROUTE 21 (MILWAUKEE AVE) AT GAGES LAKE ROAD	96.7%	3.3%											1					
1	21544	IL ROUTE 21 (MILWAUKEE AVE) AT IL 120 SOUTH RAMP	100%																	
1	21543	IL ROUTE 21 (MILWAUKEE AVE) AT IL 120 NORTH RAMP	100%																	
4	21195	IL ROUTE 132 (GRAND AVE) AT BELLE PLAINE STREET	95%		5%															
35	21119	IL ROUTE 132 (GRAND AVE.) AT STONEBROOK DRIVE	96. 7%		3. 3%															
5	21118	IL RTE. 132 (GRAND AVE.) AT ROLLINS ROAD	95%	2.5%	2.5%															
4	21117	IL RTE 132 (GRAND AVE) AT ALMOND/HUTCHINS RD	95%		5%															
7	21115	IL 132 (GRAND AVE.) AT GURNEE MILLS WEST / WELLS	95%										5%							
7		IL 132 (GRAND AVE.) AT GURNEE MILLS SE ACCESS/ TRI STATE	95%										5%							
7		IL 132 (GRAND AVE) AT GURNEE MILLS SW ACCESS	95%	*****	1		1						5%							
2		IL ROUTE 120 AT HUNT CLUB ROAD	96. 7%	3. 3%	ľ											·····				
5		IL ROUTE 132 (GRAND AVE) AT DILLEYS ROAD	95%	2. 5%	2, 5%														······································	
3		IL RTE 132 (GRAND AVE) AT O'PLAINE ROAD	95%	5%																
4		IL ROUTE 132 (GRAND AVE) AT BROOKSIDE DRIVE	95%		5%															
3		ILLINOIS RTE 132 (GRAND AVE) AT HUNT CLUB ROAD	95%	5%															·····	
4		IL 132 (GRAND AVE) AT SIX FLAGS PKWY / LAWSON BLVD	95%		5%															
4		IL ROUTE 21 (MILWAUKEE AVE) AT SIX FLAGS	95%		5%															
3		IL ROUTE 21 (MILWAUKEE AVE) AT WASHINGTON STREET	95%	5%	İ	<u> </u>														
1		IL RTE 21 (RIVERSIDE DR) AT IL RTE 132 (GRAND AVE)	100%																	
4		IL RTE 132 (GRAND AVE) AT FIRST STREET	95%		5%	<u> </u>		1			-									
6		US ROUTE 45 AT DADA DRIVE / GRANT DRIVE	95%		2. 5%						2.5%									
9		IL RTE 43 (WAUKEGAN RD.) AT ATKINSON AVENUE	95%	**************		5%		-					·							
12		IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 4	95%											5%						
10		IL ROUTE 137 (SHERIDAN RD) AT 22ND ST / MARTIN LUTHER KING DR	95%	2.5%		2. 5%						-								
1		IL RTE 137 (AMSTUTZ EXPY) AT IL RTE 137 (BUCKLEY RD)	100%		ļ		 												······································	
17		SHERIDAN ROAD AT "D" STREET / METRA ENT.	95%	·····-			†								2. 5%		2, 5%			
13		SHERIDAN ROAD AT FARRAGUT AVENUE	96. 7%				 								3. 3%		2.5%			
8		SHERIDAN ROAD AT FARRAGOT AVENCE	96. 7%		 	3. 3%	 								3. 3%					
-		SHERIDAN ROAD AT 24TH STREET	100%			J. J.	-													
10		IL ROUTE 137 (SHERIDAN RD.) AT 14TH STREET	95%	2, 5%	 	2.5%	 													
4		IL ROUTE 137 (SHERIDAN RD.) AT 10TH ST / ABBOTT LABORATORIES	95%		 	5%	 													
9		IL ROUTE 131 (GREEN BAY RD.) AT ARGONNE DRIVE	95%		 	5%	 													
~		IL RTE 131 (BUCKLEY RD) AT RAY STREET / FORRESTAL VILLAGE	95%		ļ		ļ								2.5%	2.5%				
		IL ROUTE 137 (BUCKLEY ROAD) AT ILLINOIS STREET	95%		 	 	 								5%					
			95%	2. 5%	<u> </u>										J/.	2. 5%				
		ILLINOIS RTE 137 (BUCKLEY RD) AT LEWIS AVENUE IL ROUTE 137 AT ABBOTT NO ENTRANCE / GATE 3	96. 7%	t. 3/1	 	 	 	 	<u> </u>					3, 3%		4. 34				
		IL ROUTE 137 (BUCKLEY RD.) AT MISSISSIPP1 STREET	96. 7%			 								J. J/,	3, 3%					
			95%	adveniment average											5%			***************************************		
	1	IL ROUTE 137 (BUCKLEY ROAD) AT GREAT LAKES DRIVE	100%			 	 								2/4					
		IL RTE 131 (GREEN BAY RD) AT IL RTE 137 (BUCKLEY RD)	95%																	
	· · ·	IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 2		······································										5%						
		IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 1/ WACKER PARK DR.	95%			ļ	 							5%						
		IL RTE 43 (WAUKEGAN RD) AT IL RTE 137 (BUCKLEY RD)	100%	7 ~			<u> </u>													
2	1110	IL RTE 137 (BUCKLEY RD) AT ST MARY'S RD	96. 7%	J. 3%	L	L			L									1		

											R	lev.
FILE NAME :	USER NAME = \$USER\$	DESIGNED	- DW	REVISEO -		T	SUMMARY OF QUANTITIE	9	F.A.	SECTION	COUNTY	TOTAL SHEE
Ni/Project331128041DesignCAD1Sheet Files	12-002 Sheets HE Loke Co\60142 LAKE.SOOLd	PORAWN	- JDH	REVISED -	STATE OF ILLINOIS	1		3	77.6-	2012-004 1	LAKE	O7 A
	PLOT SCALE : *SCALE*	CHECKED	- KWW	REVISED .	DEPARTMENT OF TRANSPORTATION		(SHEET 1 OF 6)		<u> </u>	2012-004 1	CONTRAC	CT NO. 60T42
	PLOT DATE + 5/16/2012	DATE	-	REVISED -		SCALE:	SHEET NO. OF SHEETS STA.	TO STA.		ILL INOIS F	ED. AID PROJECT	7



							J	FUNDING P				IRBAN	1	<i></i>		············				
OLUMN JMBER	TS#	INTERSECTION	STATE	LAKE COUNTY	GURNEE	NORTH CHICAGO	WAUKEGAN	WINTHROP HARBOR	ZION	PARK CITY	THIRD LAKE	WARREN RD. DIST.	GURNEE M. L. P.	ABBOTT LABS	NAVY	NAVFAC MIDWEST	METRA	SIMON PROP. GROLIP (ILLINOIS)L.P.	IMPERIAL REALTY	CARDINAL HEALTH
18	21969	IL RTE 120 AT MILL ROAD	96.7%					North de la colonière d'au passer a com a fin				3, 3%						1		
26	21695	IL ROUTE 43 (WAUKEGAN RD) AT BAXTER DR / NORMAN DR	95%																······································	5%
20		IL ROUTE 137 (SHERIDAN RD) AT S. GENESEE ST	96. 7%				3. 3%						······································							
22	15060	IL RTE. 137 (SHERIDAN RD.) AT GREENWOOD	95%	2.5%			2.5%									/			·	
19		IL ROUTE 137 (SHERIDAN RD.) AT BELVIDERE ROAD	97.5%				2.5%	·					······································			······································				·
21		1L ROUTE 137 (SHERIDAN RD.) AT SOUTH STREET	95%				5%													
20		IL ROUTE 131 (GREEN BAY RD) AT BROOKSIDE AVE	96. 7%				3. 3%												··	
1		IL ROUTE [3] (GREEN BAY RD) AT IL ROUTE 132 (GRAND AVE)	100%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,																
25		BELVIDERE ROAD AT BELVIDERE MALL EAST ENTRANCE	95%																5%	
24		BELVIDERE RD. AT LAKE PLAZA / PIONEER ST	95%									, , , , , , , , , , , , , , , , , , , ,						5%		
20	14970	BELVIDERE ROAD AT KELLER AVENUE	96. 7%				3. 3%						***************************************		·····					*
21		BELVIDERE ROAD AT GENESEE STREET	95%				5%						-			······································				
21		BEVIDERE ROAD AT MARTIN LUTHER KING JR. AVENUE / COUNTY ST.	95%				5%													·····
20		BELVIDERE STREET AT MCALISTER AVENUE / LIBERTY STREET	96, 7%	************			3. 3%									***************************************				***************************************
21		BELVIDERE ROAD AT JACKSON STREET	95%	~			5%													
20		BELVIDERE ROAD AT GLEN ROCK AVENUE	96. 7%	····			3. 3%													
21	····	BELVIDERE ST AT LEWIS AVENUE	95%				5%													
27		IL ROUTE 43 (WAUKEGAN RD) AT LAKESIDE DRIVE/BAXTER	95%				2.5%													2. 5%
21	***************************************	IL ROUTE 43 (WAUKEGAN RD) AT LAKEHURST NORTH DR / NORTHPOINT BLVD	95%				5%													
20		IL ROUTE 43 (WAUKEGAN RD) AT FOUNTAIN SOUARE PL	96. 7%				3. 3%												-	
20		IL ROUTE 43 (WAUKEGAN RD) AT LAKEHURST RD (SOUTH DR)	96. 7%				3, 3%												,	· · · · · · · · · · · · · · · · · · ·
1			100%																	~~~~
3		IL ROUTE 120 AT O'PLAINE ROAD	95%	5%																
2	- 1	IL ROUTE 43 AT 22ND ST / M.L. KING JR, DRIVE	96. 7%																	·
23		IL ROUTE 120 AT KNIGHT AVENUE	95%				2. 5%			2, 5%						• • • • • • • • • • • • • • • • • • • •				
28		IL ROUTE 137 (SHERIDAN RD) AT 7TH STREET	95%					5%												
29		IL ROUTE 137 (SHERIDAN RD) AT 9TH STREET	95%	2. 5%				2.5%												
31		IL ROUTE 137 (SHERIDAN RD) AT 34TH STREET	95%						5%											
31		IL ROUTE 137 (SHERIDAN RD) AT 33RD STREET	95%						5%											
31		IL ROUTE 137 (SHERIDAN RD) AT 31ST STREET	95%						5%											
31	{-	IL ROUTE 137 (SHERIDAN RD) AT 25TH STREET (SHILOH BLVD)	95%						5%				-							
		IL ROUTE 137 (SHERIDAN RD) AT 29TH STREET	95%						5%											·····
1		IL ROUTE 137 (SHERIDAN RD) AT 27TH STREET	95%			·			5%											
31		IL ROUTE 137 (SHERIDAN RD) AT 23RD STREET	95%						5%											
30		IL ROUTE 137 (SHERIDAN RD) AT IL ROUTE 173 (21ST ST)	97. 5%						2,5%											
3	1	IL ROUTE 173 AT LEWIS AVENUE	95%	5%					-, 5"											
32		IL RTE 137 (SHERIDAN RD) AT WADSWORTH RD		2.5%					2. 5%											
		IL 132 (GRAND AVE.) AT GURNEE MILLS WEST / WELLS (EVP)	33/4	C1 U/1	100%				2. 3/.											,
34		11 ROUTE 43 (WAUKEGAN RD) AT LAKEHURST NORTH DR / NORTHPOINT BLVD			100/4		100%													
 -		(EAb)	1				100%	and the same of th							***					

												Rey.	
FILE NAME X	USER NAME . SUSERS	DESIGNED -	DW	REVISED -			CIII	MMARY OF QUANTITIES		F.A.	SECTION	COUNTY	TOTAL SHEET
Ni\Projects3\12004\DesignCAD\Sheat Files	12-002 Sheets NE Lake Col60142 LAKE.5002,c	DRAWN -	JOH	REVISEO -	STATE OF ILLINOIS	-	JUN			RIE.		 	SHEETS NO.
	PLOT SCALE : *SCALE*	CHECKED -	KWW	REVISED -	DEPARTMENT OF TRANSPORTATION	ł		(SHEET 2 OF 6)		ļ	2012-004 1	LAKE	NO. 60142
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE	SHEET NO.	OF SHEETS STA.	TO STA.		ILLINOIS FED. A		NU. 60142



				1 2	2 3	4	5 6	7	8 9	10 1	1 12	13 1	4 15	16	17 18	19	20 2	1 22	23	24 2	5 26	27 7	28 29	30 31	32 33	3 34 3	.5
CODE	ITEM	UNIT	TOTAL											TRAFF		IGNA											
NO.	2,5,1	0.77	OUANTITY	Y											URBAI												
		and an entered of	The state of the s	**************************************			***			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			***************************************				***						***************************************			-	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6									-														
													-	+		11		+								- Avenue	+-
67100100	MODILIZATION	1 6:34	4								-			+		1		-	1-1	_		\vdash			-	-	-
67100100	MOBILIZATION	L SUM	1	1											_				1			-			 	4-4-	_
									_																		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				, and a second					-		***************************************	***************************************										understanding and second	-
		- t- confidence					-					-	***************************************				THE STREET STREET										
81028200	UNDERGROUND CONDUIT. GALVANIZED STEEL. 2" DIA.	FOOT	60		10	10							1		1	10	10 1	0		\top	1			10			
		Anna anna anna anna anna anna anna anna		++								-	-							-			-				+-
85000000	MAINTENANCE OF EVICTING TOURISE EVOUS INCTAINATION	5 1 0 1 2	20	+			-			-						+		-		_		 				++	_
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	80	9 4	1 5	-		3	1 3	2	1 3	4	2 1		1 1		1 6		1	1	1 1 	1	1 1	1 7	-		1
		4.00					_		_									_		_							
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1				***********		1		***************************************	-					*******		**********		***				Anning the Annie the Anning the A		-
		e de la constante de la consta					***********																				
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2					1					-				1	1			1		+				
											1-1			\vdash	_		-	-			+-	\vdash	+				+-
07500440	TOURS AS CARNING PAGE AND		<u> </u>											+				-	-		-	\vdash	_			-	
8/502440	TRAFFIC SIGNAL POST. GALVANIZED STEEL 10 FT.	EACH	5	4		1							_	-		1-1				_	_	\sqcup		 		11	
		na and an and an and an																									
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	14	2			de de calendar de la	to the second se	*******			1	1 3	2			3	2			and the second s			***************************************			
				Andrew Control of the			The state of the s																				
87502490	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	3									2	1	-			+	+			-		+				+
**					-							-	+	-			-	-		+		-	+			+	+
87502500	TRAFFIC CLOUD DOCT CALVANIZED CTC. AC ST													+-+			_	-		-							-
81502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	31	1	2							1 :	5 2	2	1	1	2	1	4		4		44		<u> </u>		
																							and a second				
87900200	DRILL EXISTING HANDHOLE	EACH	6	***************************************	1	1		4					Auduskriterduster	A	and the same of th	1	1 1	- Annahadan da Ann					and the second s	1			
				And the state of t																1							1
88030020	SIGNAL HEAD. LED. 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	41	4	9			Verbaumente spiradischin	- International Control			3	3 6	4		\Box	3	7	2	\dashv		_					
					-								-	+		H		-		\dashv	-		+	-		1	-
0007000				-	-			12.00		-		Anna	-			1-1		-		-		_					
88030050	SIGNAL HEAD. LED. 1-FACE, 3-SECTION. BRACKET MOUNTED	EACH	12	1	1						44	1 4	1 2	2	_		1										
			1					1	1 [1 1	1	- 1	1	l	1	1	1		1	1	. 1	1 1	1			

CONSTRUCTION CODE

SECTION COUNTY SHEETS NO.

012-004 1 LAKE 97 6

CONTRACT NO. 60T42

| ILLIHOIS|FED. A|O PROJECT FILE NOME : DESIGNED -USER NAME : SUSERS ₽₩ REVISED SUMMARY OF QUANTITIES STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION JOH tis\Projects3\12024\DosignC60\Shed 12-002 Sheata NC Lake ColGOT42 LAKE SOO3. NORAWN REVISED 2012-004 1 (SHEET 3 OF 6) REVISED REVISED PLOT SCALE : #SCALE# CHECKED -PLOT DATE + 5/16/2012 DATE SHEET NO. OF SHEETS STA. SCALE TO STA.



													CO	NSTR	UCTI	ON C	ODE						·····				-
h				1	2 3	4 5	6	7 8	9 1	0 11	12 1	3 14	4 15	16	17 18	19	20 2	1 22	23	24 25	26 2	7 28	29 30	0 31	32 33	34 3	5
CODE	ITEM	UNIT	TOTAL										Ţ		1C S		L							******			
NO.			OUANTIT	Υ				···	· · · · · · · · ·						URBAI												
		relation to the second		***************************************	***************************************	ndu-bole de		- Armen				Tenn of the second seco	-	***************************************						Averlands are fines			Andrew fresh er lefter A				
88030070	SIGNAL HEAD, LED. 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	3					-				2 1											-				
				11						1			1					1									+
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	4	+						+	++	2	-					-	2					+			- Landinus
			,	+	+	_	+								_	-		-	2	_				+	-		+
									-	-		-						-				_		-			\bot
88030100	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	16	2	6							1 2	2	2			1	<u> </u>									_
																								-			-
88030110	SIGNAL HEAD, LED. 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	29	3	7	- Annual market	*************					1 7	3	2			1	3	2								
								1									\top			_					1		T
88030210	SIGNAL HEAD, LED. 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4		++			-					 		-		1	2						+		+	+
					\dashv		+						 	\vdash		-		+-	\blacksquare		+				-	++	+
0007000		1			++			_					-	-						_				+			\downarrow
88030220	SIGNAL HEAD, LED. 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3							_		2	-	-				1				_					
		***										and the same of th															
88030230	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	2		***************************************		ober der der der der der der der der der d	***	non-transmission of the second	and the state of t	**************	************							2								
and the state of t		The state of the s		The state of the s						****																	1
88030240	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	6	1	11	-		-		-			1				_	1	2	-				+		++	+
		-	<u> </u>		+											H					1		-	+	-	+	-
99070350	CIONAL UEAD AND A FACE A A CENTION AS CONTROL DE CONTROL				+++					-			-			+		-						-	_		1
88030250	SIGNAL HEAD, LED. 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1	-					<u> </u>	-		1		-		-	_	- -				4					1
								_																			
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	158	14	14	18 4	2 2	2 2	4		2 2	2			4	2	14 2	0 2	2	********************************	***	8	8	32	Andrews of the Control of the Contro	2	
																							****				1
88102747	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	46	5	3	9 2	7	?	1 4	4	1	1				3	3 4	3					4	2			1
				1				-										-				+	-	+	-		+
88102757	PEDESTRIAN SIGNAL HEAD, LED. 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	-	2	-					\vdash						2	+		_		+		-		-	-
	TEST TO THE TEST PER START START TO THE TEST PER START TO THE TEST	LACIT					1			-			-					-				4-4					+
					_			-					-			1	_			_							-
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	116	7	16				8		22 4	4 12	2 9	6			4	10	6					4	8		
		444			Angen and Angel	A-4	***************************************		-	***************************************		***************************************			-	***************************************			-								
88500100	INDUCTIVE LOOP DETECTOR	EACH	35				1	4	10	The state of the s							1	1									T
			***************************************			***************************************	-	+-							+			-		+		$\dagger \dagger$		++	-		-

41.5		F'		p*							Kev	.
FILE HAME .	USER NAME = SUSERS	DESIGNED -	DW	REVISED -		l	SUMMARY OF QUANTITIES	F.A.	SECTION	COUNTY	TOTAL SH	EET
Ni/Projecte3/12004/DesignCnO/Sheet File	12-002 Sheets HE Lake Col66142 LAKE, 5004.	90RAWN -	JDH	REVISED -	STATE OF ILLINOIS	1		RIE.		CODICIT	SHEETS N	10,
1	PLOT SCALE : *SCALE*	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	ļ	(SHEET 4 OF 6)		2012-004	LAKE	97	7
	PLOT DATE + 5/16/2017	0175	, , , , , , , , , , , , , , , , , , ,	REGIONS	DECAMBLE OF HIGHEST CHIMITON			4		CONTRACT	1 NO. 60T	42
L	7.00 Out + 3/30/2012	DAIL	·····	HEATZED -		SCALE	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	***************************************	



				****	2 3	4	5	6	7 8	9	10	111	2 13	3 14	7	ISTR				·	1 22	2 23	24	25	26	27 2	28 2	9 3	0 31	32	33	34 35	5
CODE NO.	ITEM	UNIT	TOTAL	Υ											T	*********	OO2	1	NAL														
																	URBA	414									Anna anna anna anna anna anna anna anna						
88800100 PEDESTI	RIAN PUSH-BUTTON	EACH	89	2		14		2	3	2	8		2				4		4	8		2						8	3 28			2	
89500100 RELOCA	TE EXISTING SIGNAL HEAD	EACH	26	14													1		5						6								
89501410 RELOCA	TE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2			***************************************											municipal designation of the second		-												1	1	-
89502210 MODIFY	EXISTING CONTROLLER CABINET	EACH	72	8	4 5	6	2		2 1	2	***	- Annahusky kapitakaran da da marka da	3 2	2	1	1	1	1 1	6	4	1	1	1	1	1	1	1	1 1	7	1		1	
89502375 REMOVE	EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	62	6	4 4	6	1	1	2 1	3	2		2 2	2	1	V	-	1	5	6	purk	1			1		1	1 1	1 6			1	THE RESIDENCE OF THE PARTY OF T
X8570226 FULL-A	CTUATED CONTROLLER AND TYPE IV CABINET. SPECIAL	EACH	2		Andreas de la constante de la				1					A CONTRACTOR OF THE CONTRACTOR			edicitivateres de constitución			1	e un particular de la companie de la												
X8620050 UNINTER	RRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	6	-	-	1		THE PERSON NAMED IN COLUMN TO PE	-									1	1	1	**************************************								1				
X8620200 UNINTER	RRUPTABLE POWER SUPPLY. SPECIAL	EACH	69	8 4	4 4	5	2		3 1	3	1	1	3 2	2	•	1	1	1	5	4	***************************************	1	1	1	1	1	1	1 1	1 6	1		474	
X8803038 SIGNAL	HEAD. LED. 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT	EACH	***	te so		unterproduction de la constitución de la constituci				The state of the s	and the second s																						
X8803040 SIGNAL	HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	21			6			1 1	2		1	4													1	The second secon		3	1		1	
X8803050 SIGNAL	HEAD. LED. 3-FACE. 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	####					and the state of t	1				THE THE STREET AND ADDRESS OF THE STREET,				***************************************		***************************************														
X8803082 S1GNAL	HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	41		3	2		distribute de colonia	2	4	1	3	4 3					3							***************************************		4		9			3	5
X8803084 SIGNAL	HEAD. LED. 1-FACE. 3-SECTION. MAST ARM MOUNTED. RETROFIT	EACH	125		2	25		With the control of t	5 3	14	7	6 2	0 3					3	The second of th						2	1	2 4	4 3	3 20	1		4	
X8803086 SIGNAL	HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	12		12					de la companya de la											-				-	_							
		Antidotte		and a second				***************************************		<u></u>					-			Transition of the same	***************************************				<u> </u>										

NEMPROJECTS/128094\DesignCAO\Sheet Files 12-002 Sheets NE Lake Co\60142 LAKE.5008-09RAWN - JDH REVISED - STATE OF ILLINOIS	COUNTY SUCETS
	SHEE 12 N
PLOT SCALE - S	CONTRACT NO. 60T

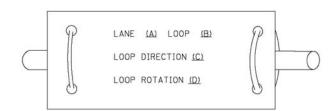
			- 65 - 65 - 75 - 75 - 75 - 75 - 75 - 75 - 75 - 7	1 62	0		1 (1	6 ¹ , 9	60	4 02	- 95	٠ ٥٩	95 os	06	51 b	7 13	14	15	16 16	09	10 11	λο	ಬಂ	27 Y	L 13	58 0	01 07	2 75	
			A	3 B	C	P)	C, G			G	S	G		*****	who was described on the				30	G	G G	С	C 2	<u> 5 C</u>	. (B	PF	<u> 2 c</u>	
			1	2 3	4	5	6 7	8	9 1	0 11	12	13		NSTR					22 23	24 2	25 26	5 27	28 2	29 3	0 31	32	33 3	4 35	Γ
CODE	UNIT	TOTAL												TRAFF	10	SIGNA				<u></u>									
NO. ITEM	UNII	QUANTIT	Υ		··········						· · · · ·				URBA		1 1												_
										_						_													+
X8803088 SIGNAL HEAD. LED. 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	88		2	14		5	1	10	1 1	4	1									6	7	2	4 5	16	7		1	-
							_		_	_						-				11	_	_	<u> </u>	_			_	_	
X8803090 SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	17			2					2	3	1	_		***************************************	_									9		_		
							_								_				***************************************				1	_					+
X8803110 SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2			1			+	-		-					-						-			-	-		_	+
					-												and the second							-					+
X8803120 SIGNAL HEAD. LED, 1-FACE, 4-SECTION. MAST ARM MOUNTED. RETROFIT	EACH	3	-							-	3			-		_						-		_				_	-
	****						-			-	-					_							and the second s	_			_	_	-
X8803210 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	44			7		- International Control	2	6	1	2	1				l 					2		2	4 3	3 13	+-+			-
	**************************************															-		\dashv					And the state of t	_	-				***************************************
X8803280 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED, RETROFIT	EACH	4		4							-		under de		_								***************************************	+	-	+		+	+
VACCUTATE OF THE PARTY OF THE P	5101	10		•	•			***************************************	•							-				-	-	3		-	1 1	+		-	+
X8803910 SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT	EACH	16		1	1				+		1		and the second s		-	-			-			+		-+'				-	
X8880015 PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	135	16	1,8	B 15	6	4	-	3	4	3		and		_	5	1.3	25	5	+++			7	4	7			+	
AGGGGGTS PEDESTRIAN POSITION, NON-EXTENTING	LAGII	100								7	<u> </u>											+		+					-
X8803060 SIGNAL HEAD, LED. 3-FACE, 3-SECTION, BRACKET MOUNTED RETROFIT	EACH	3		1						1	1											+-		+	***************************************	+		1	***************************************
									+															+	-	\Box		-	ł
X8803053 SIGNAL HEAD, LED. 3-FACE, 2-4 SECTION, 1-3 SECTION, BRACKET MOUNTED. RETROFIT	EACH	1			1															+		-		+	-		- Annual Property of the Prope	_	+
		100		-	-															+		-		-		T		-	***************************************
K6803042 SIGNAL HEAD, LED. 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1								***	1													+	-				-
																								1					***************************************
X8803058 SIGNAL HEAD, LED. 3-FACE. 2-5 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1					***************************************				•																-		+
							Andrew Street Street								1									J-40		\prod			**************
X8803056 SIGNAL HEAD, LED, 3-FACE, 2-4 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1			1		er e															1							***************************************
÷																													************
		100				-						-																	+
		And a state of the					West of the latest of the late						and the same						and the state of t						and the state of t				

															Rev	<u>.</u>
FILE NAME +	USER NAME : \$USER\$	DESIGNED -	DW	REVISED -		·	SUM	MARY	OF QUA	NTITIES		F.A. RTE.	SECTION	COUNTY	TOTAL S	NO.
Mr\Projects3\12804\DexignCAO\Sheet Files	12-802 Sheets HE take Co\60142 take.5006.c	gBRAWN .	JOH	REVISED -	STATE OF ILLINOIS				[6 OF				2012-004 1	LAKE	97	9
	PLOT SCALE = #SCALE#	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION			OUCE	I D UF	0		_		CONTRACT	NO. 60	142
	PLOT DATE • 5/16/2012	DATE -		REVISED -		SCALE:	SHEET NO.	0F	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

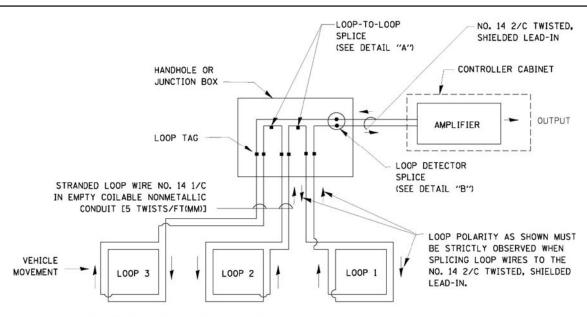
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

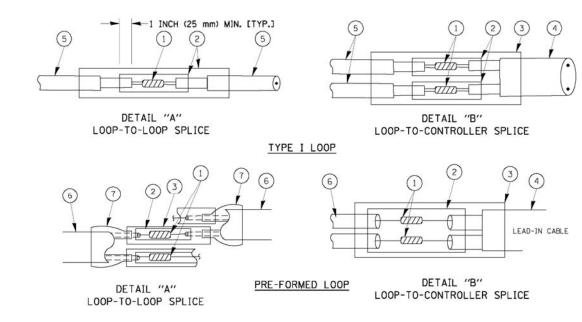


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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

- (1) 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

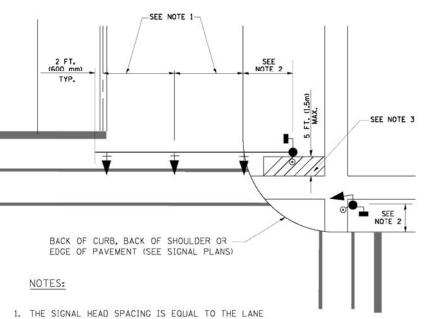
FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-	$\overline{}$
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\60T42 IDOT DETAIL	_1D#GAWN	-	JDH	REVISED	-	ı
	PLOT SCALE = \$SCALE\$	CHECKED	-	кмм	REVISED	-	ı
	PLOT DATE = 5/16/2012	DATE	-		REVISED	-	ı

STATE (OF ILLINOIS
DEPARTMENT OF	TRANSPORTATION

							F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DISTRICT O	NE – STAN	DADD	TDAEEIC	CICNIAI	DECION I	DETAILS		2012-004 I	LAKE	97	10
י וטוחונוע	INE - STAIN	DAND	INAFFIL	SIGNAL	DESIGN I	JE I AILO			CONTRACT	NO. 6	OT42
SCALE: N.T.S.	SHEET NO. 1	OF 6	SHEETS	STA.	TO S	STA.		ILLINOIS FED. AI	D PROJECT		

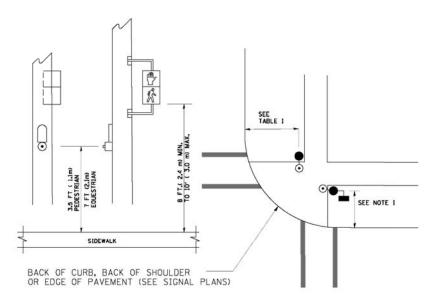
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



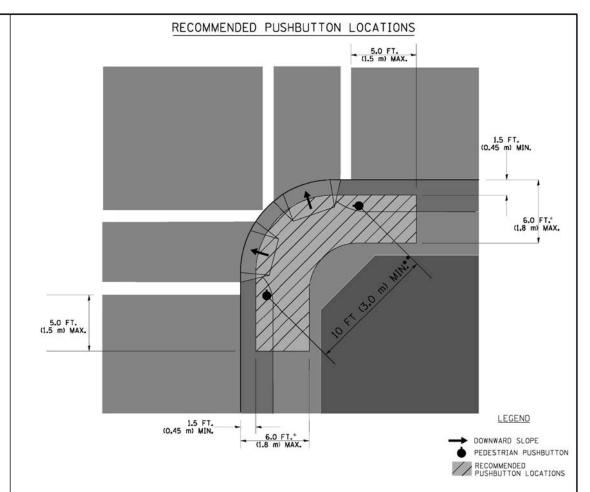
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF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

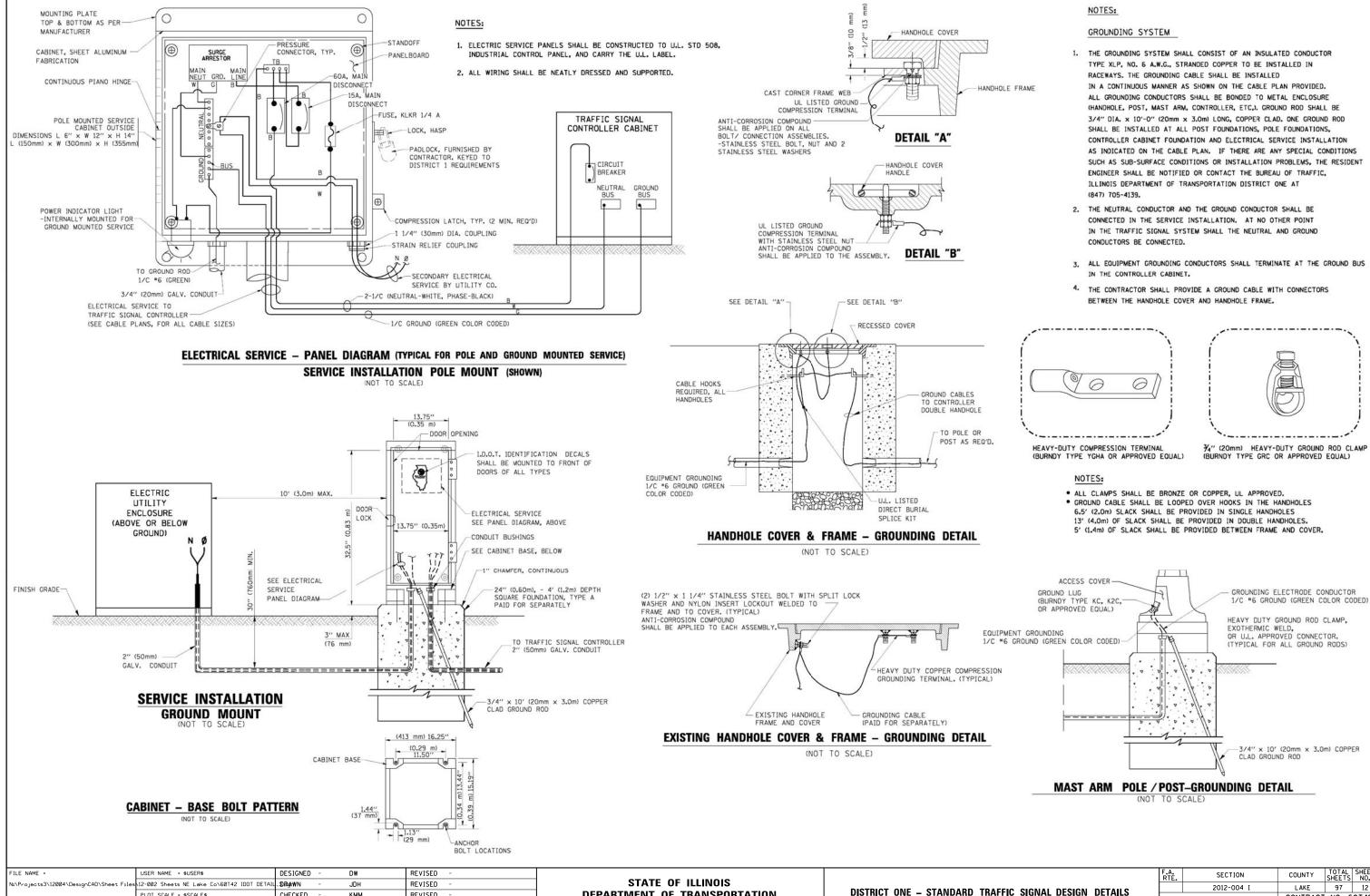
	THAIT TO STOTIAL ENDIT MILITING	7.1321
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	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
N:\Projects3\12004\DesignCAD\Sheet Files	s 12-002 Sheets NE Lake Co\60T42 IDOT DETAI		JDH	REVISED -	STATE OF ILLINOIS	DICTRICT ONE CTANDARD TRA	FFIO CIONIAL	DECICN DETAILS		2012-004 I	LAKE	97 11
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - STANDARD TRA	FFIC SIGNAL	DESIGN DETAILS			CONTRAC	NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 2 OF 6 SHE	ETS STA.	TO STA.		ILLINOIS FED	AID PROJECT	





DEPARTMENT OF TRANSPORTATION

SHEET NO. 3 OF 6 SHEETS STA.

CONTRACT NO. 60T42

ILLINOIS FED. AID PROJECT

CHECKED

DATE

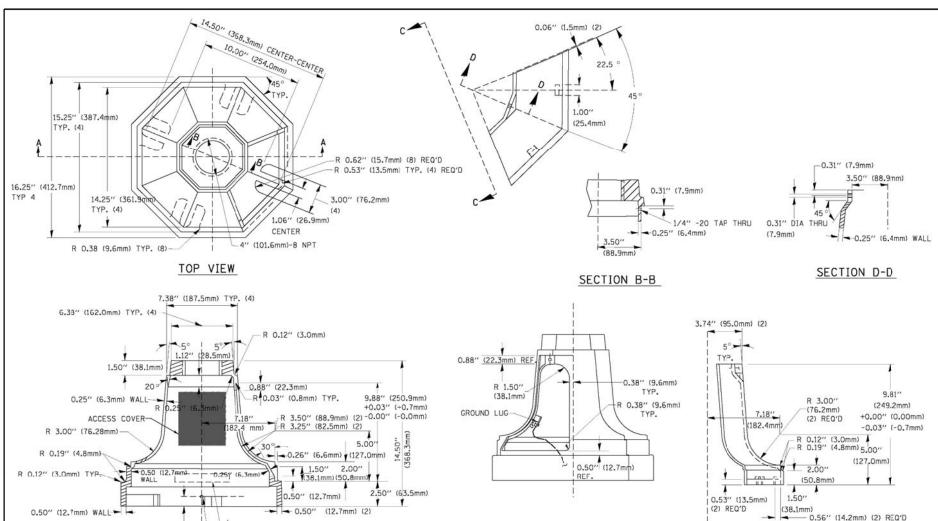
PLOT DATE = 5/16/2012

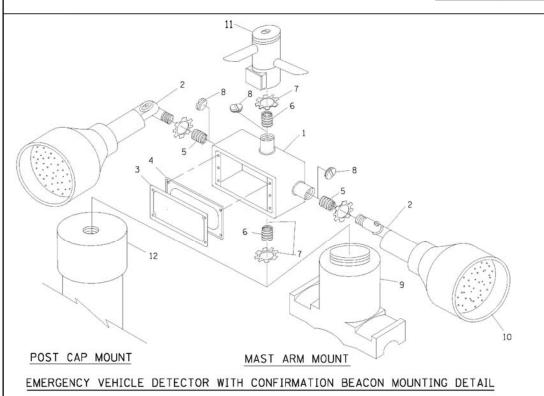
KMM

REVISED

REVISED







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

NAME OF COUNTRY OF ORIGIN

-1/4"-20 TAP THRU

1.00" (25.4mm)

SECTION A-A

ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	¾''(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

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.

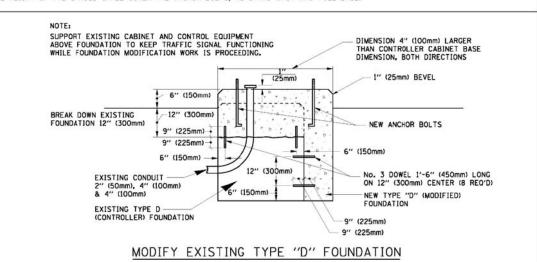
R0.50" (12mm) R0.50" (12mm) R0.50" (6mm) R11.81" (300mm) 0.25" (6mm) 0.25" (6mm) 0.25" (6mm) 0.25" (6mm) 0.25" (6mm) 0.25" (6mm) 0.25" AATM A36 STEEL ASTM A-123 HOT DIPPED GALVANIZED

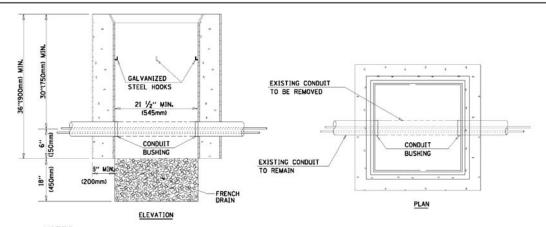
Α	В	С	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

NOTES:

- 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.





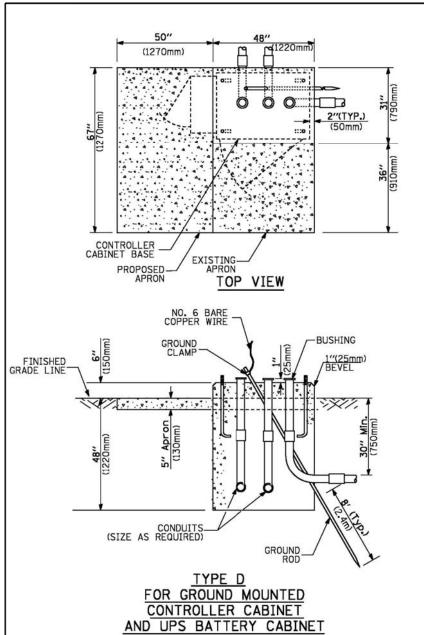
NOTES:

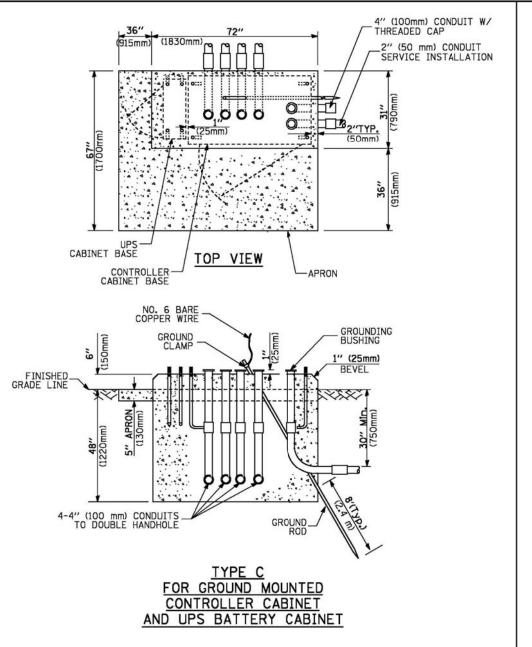
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

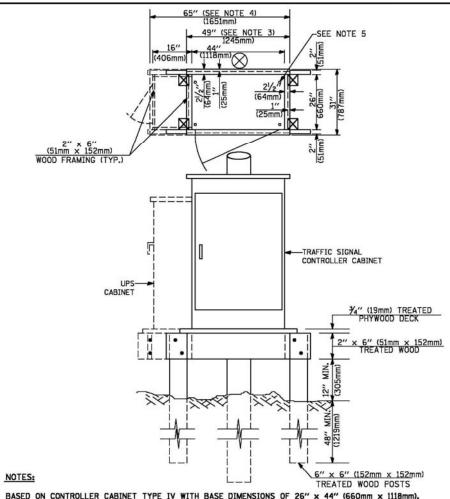
HANDHOLE TO INTERCEPT EXISTING CONDUIT

									100							
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -								F.A. RTF	SECTION	COUNTY	TOTAL SHE	EET JO.
N:\Projects3\12004\DesignCAD\Shee	t Files 12-002 Sheets NE Lake Co\60T42 IDOT DETA	IL_40RoA₩N -	JDH	REVISED -	STATE OF ILLINOIS								2012-004 I	LAKE	97 1	13
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	DIS	TRICT ONE	- STANL	DARD TRAFF	IC SIGNAL	. DESIGN DETAILS			CONTRAC	T NO. 60T4	42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.	.S. SHE	EET NO. 4	OF 6 SHEETS	STA.	TO STA.		ILLINOIS FED. A			_









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

NOTES:

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

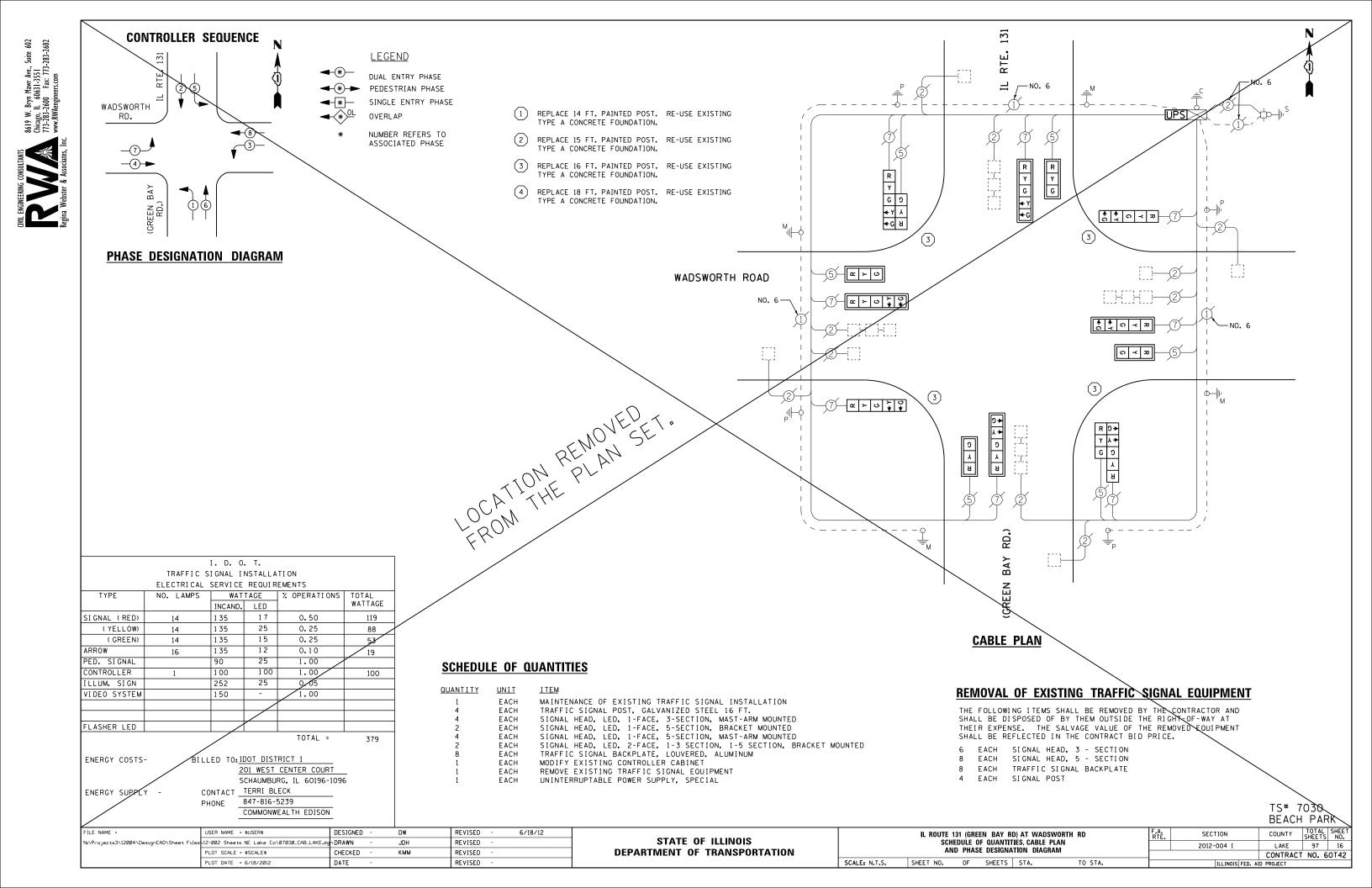
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -					F.A. RTF	SECTION	COUNTY	TOTAL SHEETS	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\60T42 IDOT DETAIL	-10RoAWN -	JDH	REVISED -	STATE OF ILLINOIS	DIOTRICT	ONE OTANDARD TRAFFIC	CIONAL DECION DETAILS		2012-004 I	LAKE	97	14
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	DISTRICT	ONE – STANDARD TRAFFIC	SIGNAL DESIGN DETAILS			CONTRAC	T NO. 6	0T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. 5 OF 6 SHEETS	STA. TO STA.		ILLINOIS FED.	AID PROJECT		

CIVIL ENGINEERING CONSULTANTS 8619 W. Bryn Hawr Ave., Suite 602 Chicago, IL 60631-3551 773-283-2600 Fax: 773-283-2602 Regina Webster & Associates, Inc.

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	FYISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
ITEM CONTROL FOR CARTINET				ITEM		EXISTING	<u>PROPOSED</u>	ITEM ELECTRIC CABLE IN CONDUIT, TRACER,	NEWO VAL		
CONTROLLER CABINET	\bowtie^{R}			EMERGENCY VEHICLE LIGHT DETECTOR	'è✓ Ro-(]	⊗ <		NO. 14 1/C, UNLESS NOTED OTHERWISE		1	
RAILROAD CONTROL CABINET	R			CONFIRMATION BEACON		o-()	•-	COAXIAL CABLE		<u> </u>	<u> </u>
COMMUNICATIONS CABINET MASTER CONTROLLER	c c l'	E C C	СС	HANDHOLE	R □						<u> </u>
MASTER MASTER CONTROLLER		EMMC	MC MMC	HEAVY DUTY HANDHOLE	R	Н	H	VENDOR CABLE FOR CAMERA			
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE,		<u>—6</u> —	<u> </u>
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	-□ ^R	- <u>□</u> -	- ■ P	JUNCTION BOX	R		•	NO. 18 3 PAIR TWISTED, SHIELDED FIBER OPTIC CABLE		/-	
TELEPHONE CONNECTION			<u> </u>	GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				NO. 62.5/125, MM12F		— <u>12F</u> —	
(P) POLE OR (G) GROUND MOUNT	R	PT	T	TEMPORARY SPAN WIRE, TETHER WIRE,	_R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		—24F	<u>—24F</u> —
STEEL MAST ARM ASSEMBLY AND POLE ALUMINUM MAST ARM ASSEMBLY AND POLE	, D	0	-	AND CABLE			0.7	FIBER OPTIC CABLE NO. 62.5/125,		\prec	
STEEL COMBINATION MAST ARM		0		COMMON TRENCH COILABLE NONMETALLIC CONDUIT (EMPTY)			CT CNC	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		-	-
ASSEMBLY AND POLE WITH LUMINAIRE	^R OX	0-×	• ×	SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER,		С ₁ —«	Cu
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PIM	(<u>P</u>][2]	₽ <u>I</u>	INTERSECTION ITEM		I	ΙP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		- ∥	^C ⊪→
SIGNAL POST	R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R ⊗	\otimes	•	RELOCATE ITEM	RL						
BETTER) 45 FOOT (13.7m) MINIMUM	\\ \rightarrow \text{R}			ABANDON ITEM	А			STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
GUY WIRE	R		>	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD SIGNAL HEAD CONSTRUCTION STAGES	\rightarrow	>	→	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R		FOUNDATION TO BE REMOVED			
(NUMBERS INDICATE THE CONSTRUCTION STAGE)		→ ²	TEELON AND ONLEN THAT TO STONAL TACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF ○—X———		
SIGNAL HEAD WITH BACKPLATE	+₽ R	+>	+-			(R)	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	R —□>′′P′′	-[>′′P′′	-► "P"	SIGNAL FACE			G ◆Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF O		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R ○	O-t>"F"	●→ "F"			₹	∢ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
PEDESTRIAN SIGNAL HEAD	R -□	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	©	©	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G	EXISTING INTERSECTION LOOP DETECTOR	D	Р	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTO	OR ® APS	<pre> @APS</pre>	APS O APS O O O O O O O O O O O O O				← Y ← G	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	к	-	
ILLUMINATED SIGN	R					"P"	"P"	EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	R	[PP]	
"NO LEFT TURN"			lacktriangle	12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		OW W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R			12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS PS	PS
DETECTOR LOOP, TYPE I		[2]		INTERNATIONAL SYMBOL, OUTLINED							<u> </u>
PREFORMED DETECTOR LOOP		'' P	P	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		(*	RAILROAD	SYMRO	LS	
	R	•—•		PEDESTRIAN SIGNAL HEAD, INTERNATIONAL				HAILIIOAD		_0	
MICROWAVE VEHICLE SENSOR	R M	M	M	SYMBOL, WITH COUNTDOWN TIMER		C C	₽ C ★ D			EXISTING	<u>PROPOSED</u>
VIDEO DETECTION CAMERA	R [V]]	(V)	\bigcirc	RADIO INTERCONNECT	 0	##**	 •	RAILROAD CONTROL CABINET			
VIDEO DETECTION ZONE				RADIO REPEATER	R ERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	X	$X \times X$	X XX
PAN, TILT, ZOOM CAMERA	R Pī l d	PI	(P)	DENOTES NUMBER OF CONDUCTORS, ELECTRIC				FLASHING SIGNAL		$\times \Theta \times$	X ⊖ X
WIRELESS DETECTOR SENSOR	R(W)	(W)	(W)	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	***
WIRELESS ACCESS POINT	R		(W)	GROUND CABLE IN CONDUIT		(1)	<u> </u>	CROSSBUCK		≯	*
FILE NAME = USER NAME = \$USER\$	In	ESIGNED - DW	REVISED -	NO. 6 SOLID COPPER (GREEN)					F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files\12-002 Sheets NE Loke PLOT SCALE = \$SCALE\$	Co\60T42 IDOT DETAIL_6		REVISED -	STATI DEPARTMENT	E OF ILLINOIS		DI	STRICT ONE – STANDARD TRAFFIC SIGNAL DESIGN DETAI		2012-004 I	LAKE 97 15
PLUT SCALE = \$SCALES PLOT DATE = 5/16/20		ATE - KMM	REVISED -	DEFANTIVIENT	UI INANSPL	MIMIUN	SCALE: N.			ILLINOIS FE	CONTRACT NO. 60T42





ILL RTE 21

ENERGY COSTS-

ENERGY SUPPLY -



4-6)−

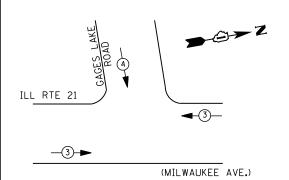
(MILWAUKEE AVE.)

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	-	1

	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	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	-	90	25	1.00				
CONTROLLER	1	100	100	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	ı	1.00				
FLASHER LED								
				TOTAL =	327			

BILLED TO: IDOT DISTRICT 1

CONTACT TERRI BLECK

847-816-5239

PHONE

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

→ G→Z INTERCONNECT TO WASHINGTON ST. INTERCONNECT TO
IL RTE 120 NORTH RAMP TRACER CABLE TRACER CABLE ILL. ROUTE 21 (MILWAUKEE AVE.)

CABLE PLAN

SCHEDULE OF QUANTITIES

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

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET EACH

EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH

TS# 21545

GURNEE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 21 (MILWAUKEE AVE) AT GAGES LAKE ROAD	F.A. RTF	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21545_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULI	E OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11.12	2012-004 I	LAKE 97 17
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT





DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

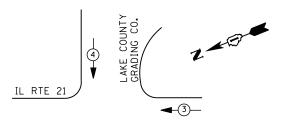
NUMBER REFERS TO ASSOCIATED PHASE

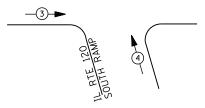
_6-

(8)

IL RTE 21

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEH	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		↓ †

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	13	1 35	17	0.50	111
(YELLOW)	13	1 35	25	0.25	81
(GREEN)	13	1 35	15	0.25	49
ARROW	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	-	1.00	-
FLASHER LED					
				TOTAL =	401

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

QUANTITY <u>UNIT</u>

> MODIFY EXISTING CONTROLLER CABINET EACH

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH

AKE COUNTY GRADING CO. TRACER CABLE -ပ INTERCONNECT TO IL RTE 120 NORTH RAMP NO. 6-INTERSECTION AND SAMPLING (SYSTEM) DETECTORS (*)(*)(*)(*)(*) ILL. ROUTE 21 (MILWAUKEE AVE.) **CABLE PLAN**

SCHEDULE OF QUANTITIES

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

EACH PEDESTRIAN SIGNAL HEAD

PEDESTRIAN PUSH-BUTTON EACH

SAMPLING (SYSTEM) AND QUEUE DETECTORS

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

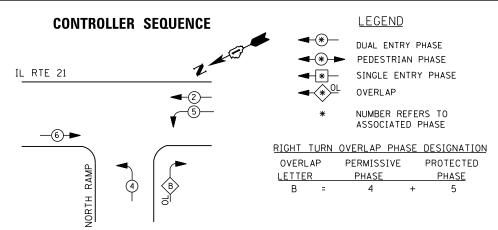
SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

TS# 21544 GURNEE

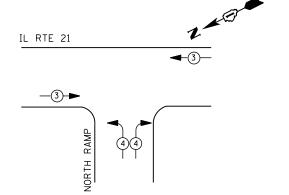
COUNTY TOTAL SHEET NO.

LAKE 97 18 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW IL ROUTE 21 (MILWAUKEE AVE) AT IL 120 SOUTH RAMP SECTION COUNTY STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\2!544_CAB_LAKE.dg DRAWN JDH REVISED 2012-004 I **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T42 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 5/16/2012 REVISED DATE





PHASE DESIGNATION DIAGRAMS



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PREE	EMPTORS
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	4	1 35	12	0.10	5		
PED. SIGNAL		90	25	1.00			
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
				TOTAL =	327		

ENERGY COSTS-

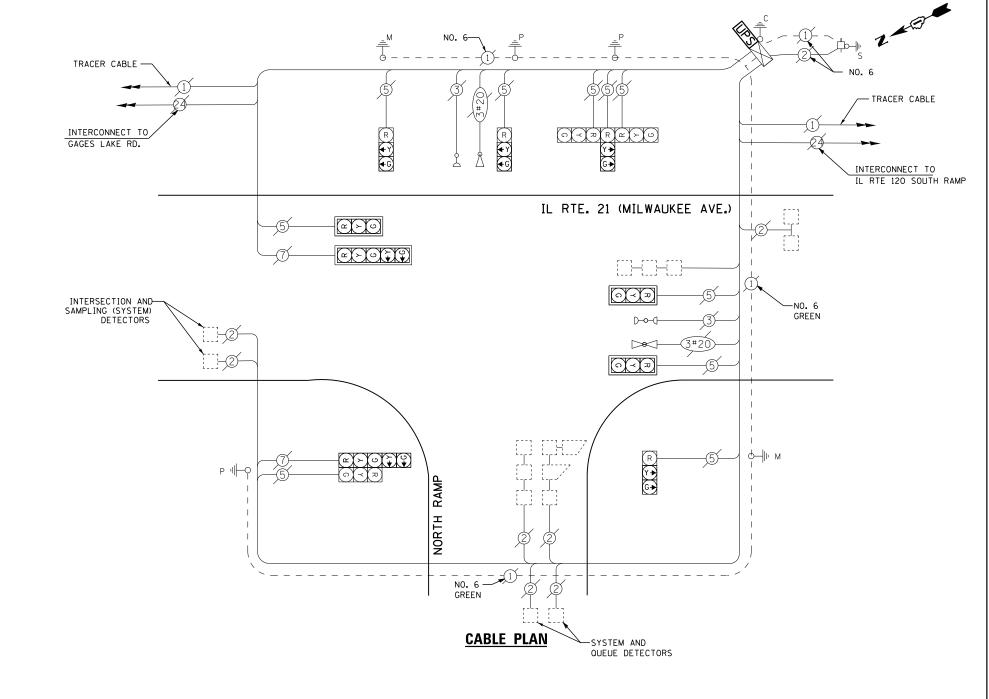
BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE

847-816-5239 COMMONWEALTH EDISON



SCHEDULE OF QUANTITIES

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

TS# 21543 GURNEE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 21 (MILWAUKEE AVE) AT IL 120 NORTH RAMP	F.A. RTF.	SECTION	COUNTY TOTAL SHEET	
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21543_CAB_LAKE.dgi	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		***************************************	2012-004 I	LAKE 97	19
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO.	60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	



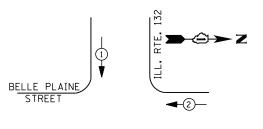
BELLE PLAINE STREET

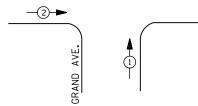


PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	EMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2		
MOVEMENT	↓ ↑	—		

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

I. D. O. T.

ENERGY COSTS-

BILLED TO: VILLAGE OF GURNEE 325 N. O'PLAINE RD

GURNEE, IL 60031-2636

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

TOTAL =

541

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
1	EACH	DRILL EXISTING HANDHOLE
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED
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

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"

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

→②→ Z

Ø

* * O < 7

|ດ| ≺ | ਸ਼ |

№ C

۲>

Y

Я

R

Y G +Y +G

+λ C λ B

CABLE PLAN

C V

R Y G

띰

Y G ←Y ←G

~ > U > U

_ œ ≻ ∪ <mark>≻ ∪</mark>

BELLE PLAINE ST.

၁ ဝ

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

> TS# 21195 GURNEE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 132 (GRA				F.A. RTE.	SECTION	COUNTY	TOTAL SHEET	SHEE NO.
N:\Projects3\12004\DesignCAD\Sheet File:	s 12-002 Sheets NE Lake Co\21195_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCI	CHEDULE OF QUANTITIES, C					2012-004 I	LAKE	97	20
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY	Y VEHICLE I	KEEMPIION	SEQUENCE			CONTRAC	T NO.	0T42ء
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		





IL RTE 132 (GRAND AVE.)

DUAL ENTRY PHASE PEDESTRIAN PHASE

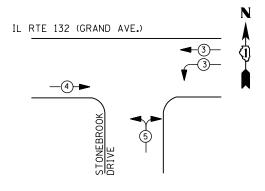
SINGLE ENTRY PHASE

LEGEND

NUMBER REFERS TO ASSOCIATED PHASE

	RIGHT	TURN	OVERLA	AΡ	PHASE	DESI	GNATI	<u>ON</u>
OVER	LAP	PERM	ISSIVE		PROTE	CTED		DISPLA
LETTI	ΞR	PHA	SE		PHA	SE		PHASE
Α	=	2	2	+	3	5	-	2
D	=		3	+	1			

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGE	NCY VEHICL	E PREEMPT	ORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	5	
MOVEMENT	-	-	-	

		I. D. O	. T.						
	TRAFFIC S	I GNAL I	NSTALLA	TION					
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	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	4	1 35	12	0.10	5				
PED. SIGNAL	2	90	25	1.00	50				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ı	1.00	-				
FLASHER LED									
				TOTAL =	700				

ENERGY COSTS-

BILLED TO: VILLAGE OF GURNEE 325 N. O'PLAINE RD

GURNEE, IL 60031-2636

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

TRACER CABLE -

UPS

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

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

2 EACH PEDESTRIAN SIGNAL HEAD

2 EACH PEDESTRIAN PUSH-BUTTON

R

+Y +G

- NO. 6

STONEBROOK DRIVE

CABLE PLAN

ILL RTE. 132 (GRAND AVE.)

ဂ ≺ ဩ R ၕ ≻ ပ

G+

ດ ≺ ⊅

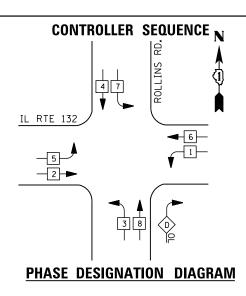
TS# 21119 GURNEE

-TRACER CABLE

INTERCONNECT TO GRAND HUNT CENTER

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 132 (GRAND AVE.) AT STONEBROOK DRIVE	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21119_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEI	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,,,,,,	2012-004 I	LAKE	97	21
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 6	OT42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI			





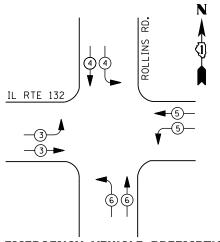
<u>LEGEND</u>

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN	OVERLAP	PHASE	DESIGNATION
OVERLAP	PERMISS	IVE	PROTECTED
LETTER	PHASE		PHASE

D



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6			
MOVEMENT		 	—	1			

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							
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	6	1 35	12	0.10	7					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						

FLASHER LED TOTAL = 665

150

BILLED TO: VILLAGE OF GURNEE ENERGY COSTS-325 N. O'PLAINE RD

VIDEO SYSTEM

ENERGY SUPPLY -

GURNEE, IL 60031-2636

1.00

150

CONTACT TERRI BLECK PHONE 847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

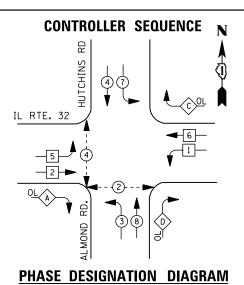
QUANTITY <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH EACH EACH

TS# 21118 GURNEE

									0.	O1 11 1		
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE, 132 (GRAND AVE.) AT ROLLINS ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL	SHE	ĒT
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21118_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11112	2012-004 I	LAKE	97	2	<u></u>
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO.	60T4	42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	1	ILL INOIS FED	. AID PROJECT			_

			INTERCONNECT ALMOND R	OAD N
	OAKWOOD DRIVE		TRACER CABLE	
	NO. 6	=M + 0	= M	X
ILL. RTE. 132				
(GRAND AVE.) S S S S S S S S S S S S S		(C)		EXISTING INTERSECTIO AND SAMPLING (SYSTEI DETECTORS
EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS 5 5 7 7 7 7 7 7 7 7 7 7 7		D- 3 D- 3 D- 3 D- 3 D- 3 D- 3 D- 3 D- 3	NO. 6	
		20 a 3 C	 	NO. C
`	ROLLINS ROAD CABLE PLAN	TR CABLE INTERCON	<u>UPS</u> NECT TO US 45	NO. 6
DULE OF QUANTITIES	<u> </u>	¥ ¥		





DUAL ENTRY PHASE PEDESTRIAN PHASE

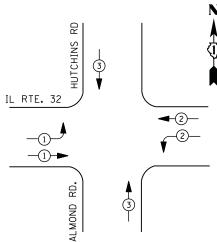
SINGLE ENTRY PHASE

ASSOCIATED PHASE

NUMBER REFERS TO

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERL	AΡ	PERMISSIVE		PROTECTED		
LETTER	?	PHASE		PHASE		DISPLA
Α	=	2	+	3	-	2
С	=	6	+	7	-	6
D	_	0		1		0



А	-	2	т
С	=	6	+
D	=	8	+

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	1	2	3						
MOVEMENT		—	1						

	Ι.	D.	0.	Т.	
TRAFFIC	SIG	NAL	ΙN	STALLATION	
ELECTRI CAL	. SEI	RVI	CE	REQUIREMENT:	S

	LLLCTRICAL	JLIN VI CL	INE GOT IN	LIVILIAIS	
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	20	1 35	12	0.10	24
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 =	576

ENERGY COSTS-

BILLED TO: VILLAGE OF GURNEE 325 N. O'PLAINE RD

GURNEE, IL 60031-2636 ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

LETTER	7	PHASE		PHASE		DISPLAY
Α	=	2	+	3	-	2
С	=	6	+	7	-	6
D	=	8	+	1	-	8

(GRAND AVENUE)

ILLINOIS ROUTE 132

C A

7-----

AL MOND ROAD

CABLE PLAN

9

HUTCHINS ROAD

Y G ←Y ←G

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UN I T</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFI
6	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
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

4 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

7 R Y G Y+ G+

A ←C

9 G

≯. ■

G

TS# 21117 **GURNEE** COUNTY TOTAL SHEET NO.

LAKE 97 23

CONTRACT NO. 60T42

SECTION 2012-004 I

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL RTE 13	(GRAN	D AVE) AT	ALMOND/HUTCHIN	IS RD	F.A. RTE.
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21117_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEE				, PHASE DESIGNAT		1012.
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			JENCE			
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	



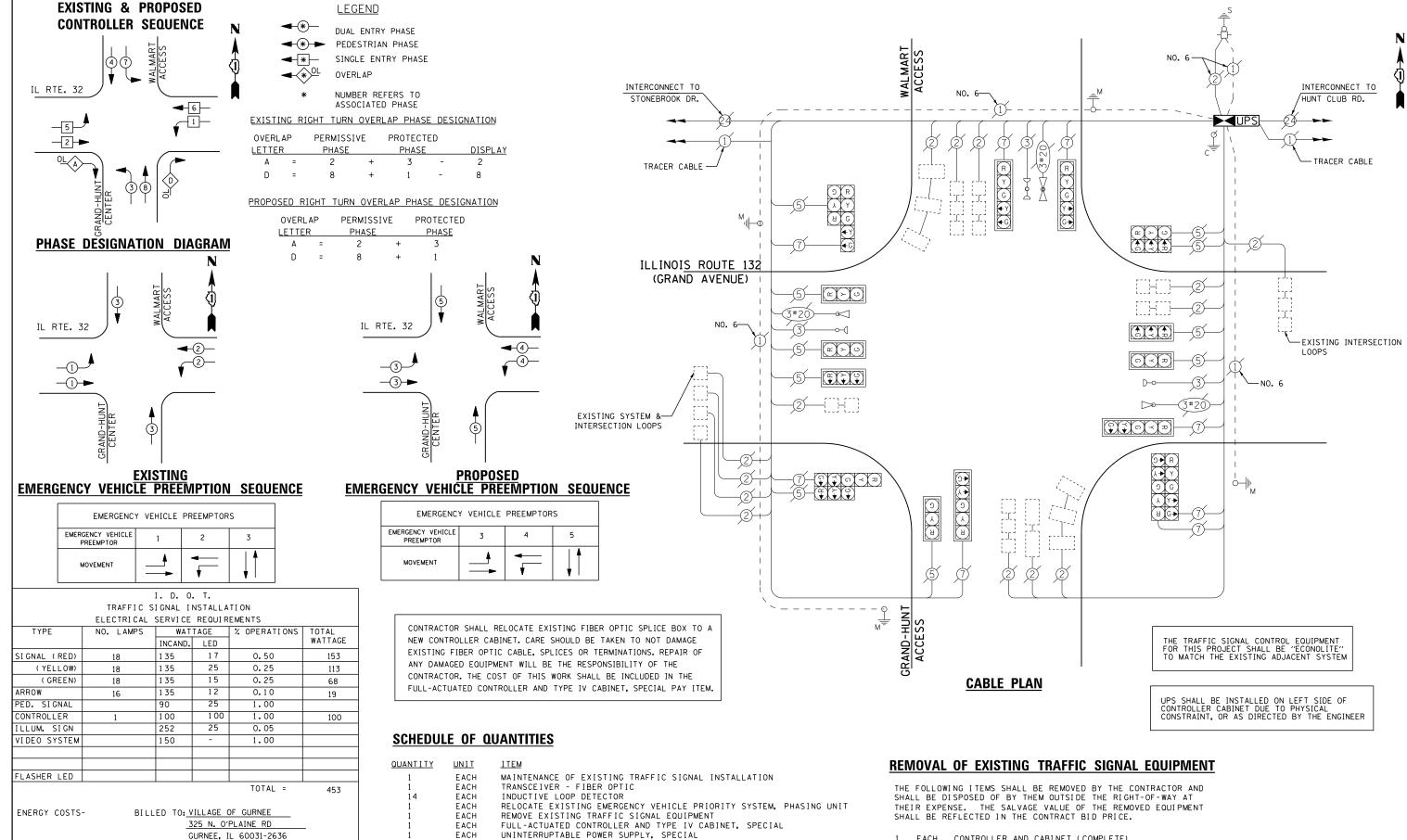
ENERGY SUPPLY -

CONTACT TERRI BLECK

847-816-5239

COMMONWEALTH EDISON

PHONE

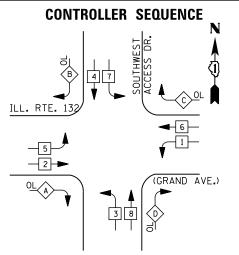


1 EACH CONTROLLER AND CABINET (COMPLETE)

TS# 21115 **GURNEE**

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL 132 (GRAND AVE.) AT GURNEE MILLS WEST/WEL	LS	F.A. SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21115_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION		2012-004 I	LAKE 97 24
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		<u> </u>	CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO	STA.	ILLINOIS FED.	AID PROJECT





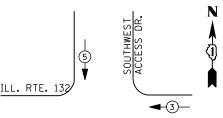
DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

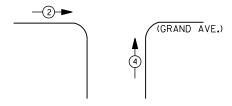
NUMBER REFERS TO ASSOCIATED PHASE

IGHT TURN	OVERLAP PH	ASE	DESIGNATION
OVERLAP	PERMISSIVE	:	PROTECTED
LETTER	PHASE		PHASE
Α =	2	+	3

PHASE DESIGNATION DIAGRAM



SOUTHWEST ACCESS DR.	N (1)



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	2	3	4	5
MOVEMENT	*	\	†	\

I. D. O. T.							
TRAFFIC SIGNAL INSTALLATION							
	ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	22	1 35	1 7	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		90	25	1.00			
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 GURNEE 325 N. O'PLAINE RD

GURNEE, IL 60031-2636

COMMONWEALTH EDISON

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

TOTAL =

527

SCHEDULE OF QUANTITIES

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

INTERCONNECT TO

TRACER CABLE

ILLINOIS ROUTE 132 (GRAND AVENUE)

SOUTHWEST ACCESS DR.

NO. 6

TRI-STATE PARKWAY **CABLE PLAN**

<u>UPS</u>

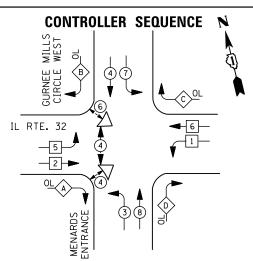
SOUTHEAST

ACCESS DRIVE

TS# 21110 GURNEE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL 132 (GRAND AVE.) AT GURNEE MILLS SE ACCESS/TRI STATE	F.A. SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	-	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	2012-004 I	LAKE 97 25
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEFAITMENT OF THANSFORTATION		·	CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. A	AID PROJECT





DUAL ENTRY PHASE PEDESTRIAN PHASE

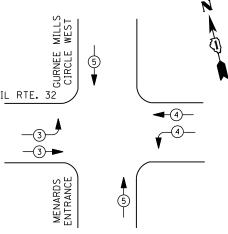
SINGLE ENTRY PHASE

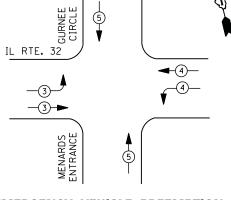
NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION

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

PHASE DESIGNATION DIAGRAM





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

	LLLCTRICAL	SLIVICE	IVEQUIT	LIVILIVIO	
TYPE	NO. LAMPS WATTAGE		% 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	6	90	25	1.00	150
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 GURNEE

325 N. O'PLAINE RD GURNEE, IL 60031-2636

TOTAL =

631

ENERGY SUPPLY -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.

PEDESTRIAN SIGNAL HEAD

4 EACH PEDESTRIAN PUSH-BUTTON

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

INTERCONNECT TO

HUNT CLUB RD.

TRACER CABLE

ILLINOIS ROUTE 132

(GRAND AVENUE)

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

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

TS# 21000 **GURNEE**

INTERCONNECT TO

TRACER CABLE

SOUTH EAST ACCESS DR.

DESIGNED REVISED FILE NAME = USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet Fil 12-002 Sheets NE Lake Co\21000_CAB_LAKE.do DRAWN JDH REVISED CHECKED KMM REVISED PLOT DATE = 5/16/2012 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL 132 (GRAND AVE) AT GURNEE MILLS SW ACCESS
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEET NO.

LAKE 97 26 SECTION COUNTY 2012-004 I CONTRACT NO. 60T42

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

CABLE PLAN

\ \ \ \ \ \

NO. 6

9 G

Y C

- C - U + +

₩ ¥ C ≺ X 8

Y G + Y + G

G Y **→** G **→**

R o→

′G+ ย

MENARDS ENTRANCE





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

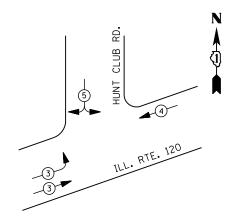
<u>LEGEND</u>

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

PERMISSIVE PROTECTED PHASE 4

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4	5		
MOVEMENT		•			

I. D. O. T.							
	TRAFFIC SIGNAL INSTALLATION						
ELECTRICAL SERVICE REQUIREMENTS							
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	14	1 35	1 7	0.50	119		
(YELLOW)	14	1 35	25	0.25	88		
(GREEN)	14	1 35	15	0.25	53		
ARROW	4	1 35	12	0.10	5		
PED. SIGNAL		90	25	1.00			
CONTROLLER	1	1 00	100	1.00	100		
ILLUM. SIGN		252	25	0.05	-		
VIDEO SYSTEM		150	ı	1.00	1		
FLASHER LED							
				TOTAL =	364		

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

CLUB -INTERSECTION AND SAMPLING DETECTORS INTERSECTION AND -SAMPLING DETECTORS

CABLE PLAN

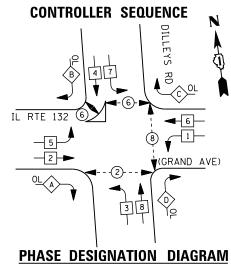
SCHEDULE OF QUANTITIES

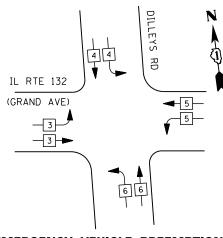
QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 11930 GURNEE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL RTE 1	120 AT HUN	T CLUB ROAI	D	F.A. RTF.	SECTION	COUNTY	TOTAL SHE
N:\Projects3\12004\DesignCAD\Sheet File	s 12-002 Sheets NE Lake Co\11930_CAB_LAKE.dg		JDH	REVISED -	STATE OF ILLINOIS	SCHEI				GNATION DIAGRAM		2012-004 I	LAKE	97 2
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY	Y VEHICLE PI	KEEMPTION	SEGUENCE			CONTRACT	NO. 60T4
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	







EMERGENCY VEHICLE PREEMPTION SEQUENCE

EI	MERGENCY	VEHICLE PR	EEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT			—	1

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

	LLLCTRICAL	JLIN VI CL	INLUGIT	LIVILIAIS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	25	1 35	17	0.50	213
(YELLOW)	25	1 35	25	0.25	156
(GREEN)	25	1 35	15	0.25	94
ARROW	18	1 35	12	0.10	22
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					

ENERGY COSTS-

BILLED TO: VILLAGE OF GURNEE

325 N. O'PLAINE RD GURNEE, IL 60031-2636

TOTAL =

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON DESIGNED REVISED DW

935

OVERLAP

LETTER

RIGHT TURN OVERLAP PHASE DESIGNATION DILLEYS ROAD PROTECTED PERMISSIVE PHASE 3 ∪ <u>□</u> > O O - K ILLINOIS ROUTE 132 (GRAND AVENUE) 1(c)(r)(o) NO. 6 INTERSECTION AND SAMPLING DETECTORS NO. 10-CAT5--NO. 6 <u></u> NO. 8 **CABLE PLAN**

SCHEDULE OF QUANTITIES

EACH

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

PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

INTERCONNECT TO

TRACER CABLE

CAM

NO. 10

NO. 10

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

-INTERSECTION AND SAMPLING DETECTORS

LAWSON BLVD/ GREAT AMERICA 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.

PEDESTRIAN SIGNAL HEAD

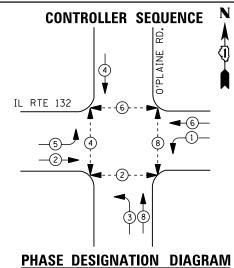
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

EACH PEDESTRIAN PUSH-BUTTON TS# 7085 **GURNEE**

COUNTY TOTAL SHEET NO.

LAKE 97 28 FILE NAME = USER NAME = \$USER\$ IL ROUTE 132 (GRAND AVE) AT DILLEYS ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM SECTION COUNTY STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\07085_CAB_LAKE.do DRAWN JDH REVISED 2012-004 I AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CHECKED KMM REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60T42 SCALE: N.T.S. OF SHEETS STA. SHEET NO. PLOT DATE = 5/16/2012 DATE REVISED





DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

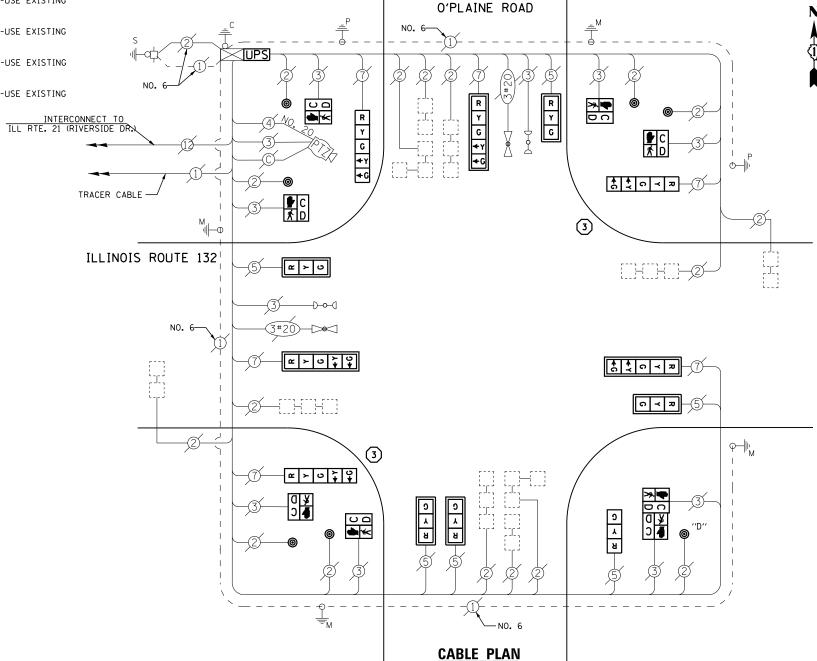
NUMBER REFERS TO ASSOCIATED PHASE 1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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

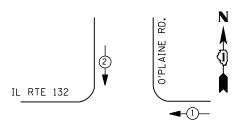
REPLACE 16 FT. PAINTED POST. RE-USE EXISTING

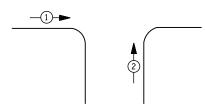
TYPE A CONCRETE FOUNDATION.

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



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





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

	TRAFFIC SIGNAL INSTALLATION								
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	17	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
(GREEN)	12	1 35	15	0.25	45				
ARROW	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	1	150	-	1.00	150				

I. D. O. T.

ENERGY COSTS-

FLASHER LED

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

686

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

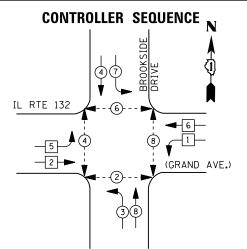
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

TS# 7065 **GURNEE**

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL RTI	E 132 (G	GRAND	AVE)	AT O'PLAIN	IE ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEE	ĬΤ
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\07065_CAB_LAKE.d	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEI						SIGNATION DIAGRAM	1,1,1,2	2012-004 I	LAKE	97	29	,—
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EM	IERGENC	Y VEHIC	CLE PR	EEMPTION	SEQUENCE			CONTRAC	T NO. F	60T4	$\overline{2}$
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHE	ETS	STA.	TO STA.		ILLINOIS FED. A				





<u>LEGEND</u>

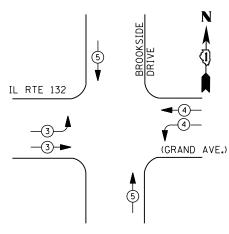
DUAL ENTRY PHASE

*) PEDESTRIAN PHASE

* SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGEN	NCY VEHICL	E PREEMPTO	ORS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT		-	↓ ↑

		1. D. O	. .		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	18	1 35	1 7	0.50	153
(YELLOW)	18	1 35	25	0.25	113
(GREEN)	18	1 35	15	0.25	105
ARROW	8	1 35	12	0.10	14
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	-
VIDEO SYSTEM	1	150	ļ	1.00	150
FLASHER LED					
				TOTAL =	830

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF GURNEE

847-816-5239

CONTACT TERRI BLECK

PHONE

325 N. O'PLAINE RD

GURNEE, IL 60031-2636

COMMONWEALTH EDISON

830

NO. 6-(GREEN) DRIVE BROOKSIDE \ **\ ≫** • C R Y G +Y +G Y G ←Y ←G G \$ \$ \$ C > 0 EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS (GRAND AVE.) EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS (GREEN) ILLINOIS ROUTE 132 C < 2 4 7 9 TRACER CABLE -R N S Y TRACER CABLE **≯**♥ Y INTERCONNECT TO INTERCONNECT TO STONEBROOK DRIVE ALMOND RD./HUTCHINS RD. **CABLE PLAN** RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D NOTE: PUSH-BUTTON "A" SHALL PLACE A CALL TO PHASES 2 AND 4.

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
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
8	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, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
7	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.

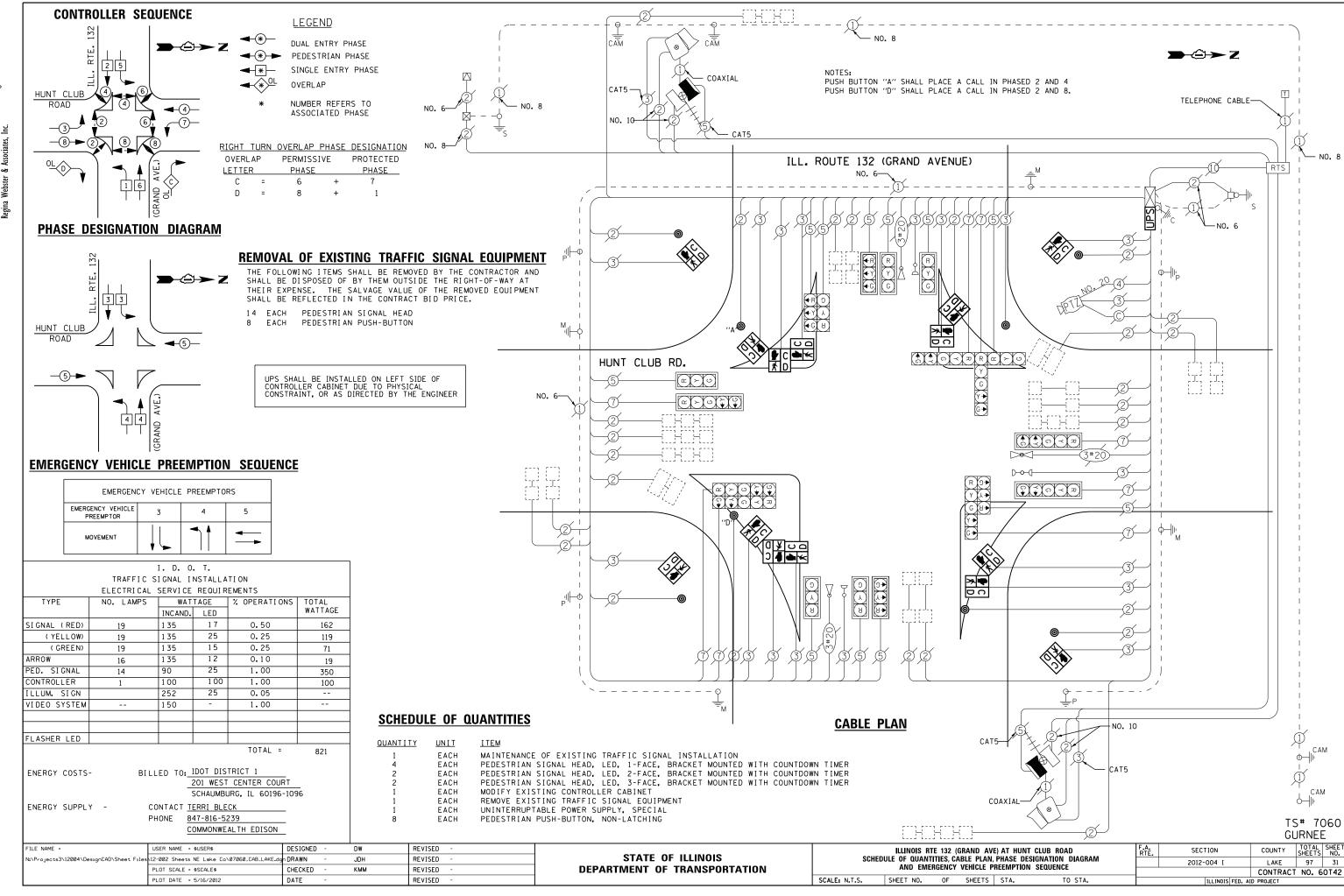
8 EACH PEDESTRIAN SIGNAL HEAD

EACH PEDESTRI AN PUSH-BUTTON

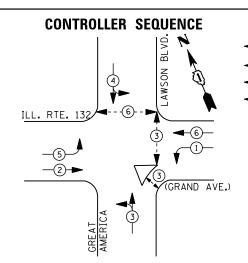
TS# 7062 GURNEE

- 1																_	J C L		
ſ	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE	132 (GR	AND A	VE) AT	BROOKSI	DE DRIVE	F.A.	SECTION	COUNTY	TOTAL	SHE	ĒT
١	N:\Projects3\12004\DesignCAD\Sheet Files	\12-002 Sheets NE Lake Co\07062_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE						GNATION DIAGRAM	11.12.	2012-004 I	LAKE	97	3/	-
١		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMER	RGENCY	VEHICLE	E PREEI	MPTION	SEQUENCE			CONTRAC	T NO.	60T4	12
		PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEET	rs st	TA.	TO STA.		ILLINOIS FED	AID PROJECT			









DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

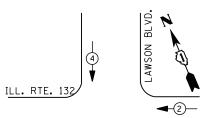
REPLACE 14 FT. PAINTED POST. RE-USE EXISTING

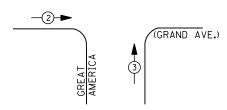
REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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

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

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEH	HICLE PREE	MPTORS	
EMERGENCY VEHICLE PREEMPTOR	2	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)	14	1 35	1 7	0.50	119				
(YELLOW)	14	1 35	25	0.25	88				
(GREEN)	20	1 35	15	0.25	75				
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	ı	1.00	1				
FLASHER LED									
TOTAL = 542									

ENERGY COSTS-BILLED TO: VILLAGE OF GURNEE 325 N. O'PLAINE RD

ENERGY SUPPLY -

N:\Projects3\12004\DesignCAD\Sheet Fil

FILE NAME =

GURNEE, IL 60031-2636 CONTACT TERRI BLECK

847-816-5239 PHONE COMMONWEALTH EDISON

DESIGNED REVISED USER NAME = \$USER\$ s 12-002 Sheets NE Lake Co\07055_CAB_LAKE.do DRAWN JDH REVISED CHECKED КММ REVISED PLOT DATE = 5/16/2012 DATE REVISED

SCHEDULE OF QUANTITIES

EACH

EACH

EACH

EACH

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL 132 (GRAND AVE) AT SIX FLAGS PKWY /LAWSON BLVD SCHEDULE OF QUANTITIES CABLE PLAN PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEET NO. LAKE 97 32 SECTION COUNTY 2012-004 I CONTRACT NO. 60T42

(5)

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

TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH EACH EACH FACH

ILLINOIS ROUTE 132

INTERCONNECT TO DILLEYS RD.

TRACER CABLE

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

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

SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT PEDESTRIAN PUSH-BUTTON, NON-LATCHING

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

PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

1 EACH SIGNAL POST

CABLE PLAN

SIX FLAGS

LAWSON BOULEVARD

A A O < Z C > O —(1)

↑ ↑ ∩ ≺ ¬

5+ C ≺ Z

R V

R

G 4G

□ C

ງ**→**

TS# 7055 GURNEE

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

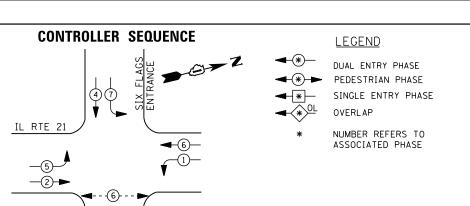
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 3 AND 6

INTERCONNECT TO

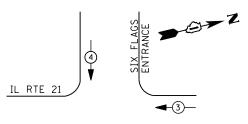
ILLINOIS ROUTE 21

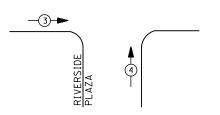
TRACER CABLE





PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

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	2	90	25	1.00	50				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
	TOTAL = 391								

ENERGY COSTS-

BILLED TO: VILLAGE OF GURNEE

325 N. O'PLAINE RD GURNEE, IL 60031-2636

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

847-816-5239 COMMONWEALTH EDISON

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
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 WASHINGTON ST.

TRACER CABLE

EXISTING INTERSECTION— AND SAMPLING (SYSTEM)

DETECTORS

ILL. RTE. 21

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

(MILWAUKEE AVE.)

D-0-(1-

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.

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

SIX FLAGS ENTRANCE

RIVERSIDE PLAZA

CABLE PLAN

NO. 6-

5-07-0

ပ

TS# 6732 GURNEE

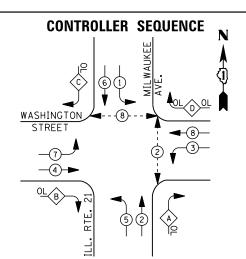
EXISTING INTERSECTION

AND SAMPLING (SYSTEM)

DETECTORS

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 21 (MILWAUKEE AVE) AT SIX FLAGS	F.A. SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\06732_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2012-004 I	LAKE 97 33
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED.	





DUAL ENTRY PHASE PEDESTRIAN PHASE

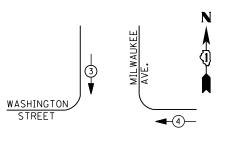
SINGLE ENTRY PHASE

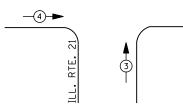
NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION

INTOTT	10111	OVENER	IIIAJL	DESIGNATIO	
OVER	LAP	PERMISS	IVE	PROTECTED	
LETTE	R	PHASE		PHASE	
Α	=	2	+	3	
В	=	4	+	5	
С	=	6	+	7	
D	=	8	+	1	

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEH	HICLE PREE	MPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	†	† †		

1. D. O. 1.								
TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL	SERVI CE	REQUI R	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	32	1 35	12	0.10	38			
PED. SIGNAL	4	90	25	1.00	100			
CONTROLLER	1	1 00	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 847-816-5239

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

INTERCONNECT TO SIX FLAGS DRIVE

TRACER CABLE

R + 9 Y + A G 9 + Y A + G 8

WASHINGTON STREET

⊃ <u>0</u>

INTERCONNECT TO GAGES LAKE ROAD

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

4 EACH PEDESTRIAN SIGNAL HEAD

(MILWAUKEE

21

RTE.

CABLE PLAN

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

≫ •

3 EACH PEDESTRIAN PUSH-BUTTON

TS# 6730 **GURNEE**

INTERCONNECT TO

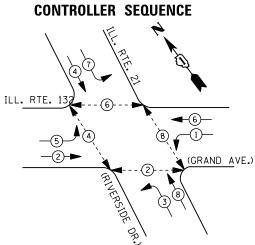
TRACER CABLE

O'PLAINE ROAD

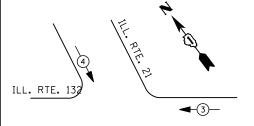
			1											_
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 21 (MILWAUKEE A)	VE) AT WASHINGTO	ON STREET	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	\12-002	dgn DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLA			111111111111111111111111111111111111111	2012-004 I	LAKE	97	34
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE	E PREEMPTION SE	:QUENCE			CONTRACT	NO. 6	60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEET	TS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

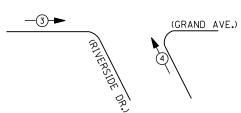
TRACER CABLE -





PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

1	I. D.	0.	т.	
TRAFFIC SI	I GNAL	INS	TALLAT	TI ON
ELECTRICAL S	SERVIC	E R	EQUI RE	MENTS
110 11100			0.5	

	ELECTRICAL	SERVICE	REQUIR	EMENIS		
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	16	1 35	1 7	0.50	136	
(YELLOW)	16	1 35	25	0.25	100	
(GREEN)	16	1 35	15	0.25	60	
ARROW	16	1 35	12	0.10	19	
PED. SIGNAL	8	90	25	1.00	200	
CONTROLLER	1	100	1 00	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM	1	150	ı	1.00	150	
FLASHER LED						
				TOTAL =	765	

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

PEDESTRIAN PHASE

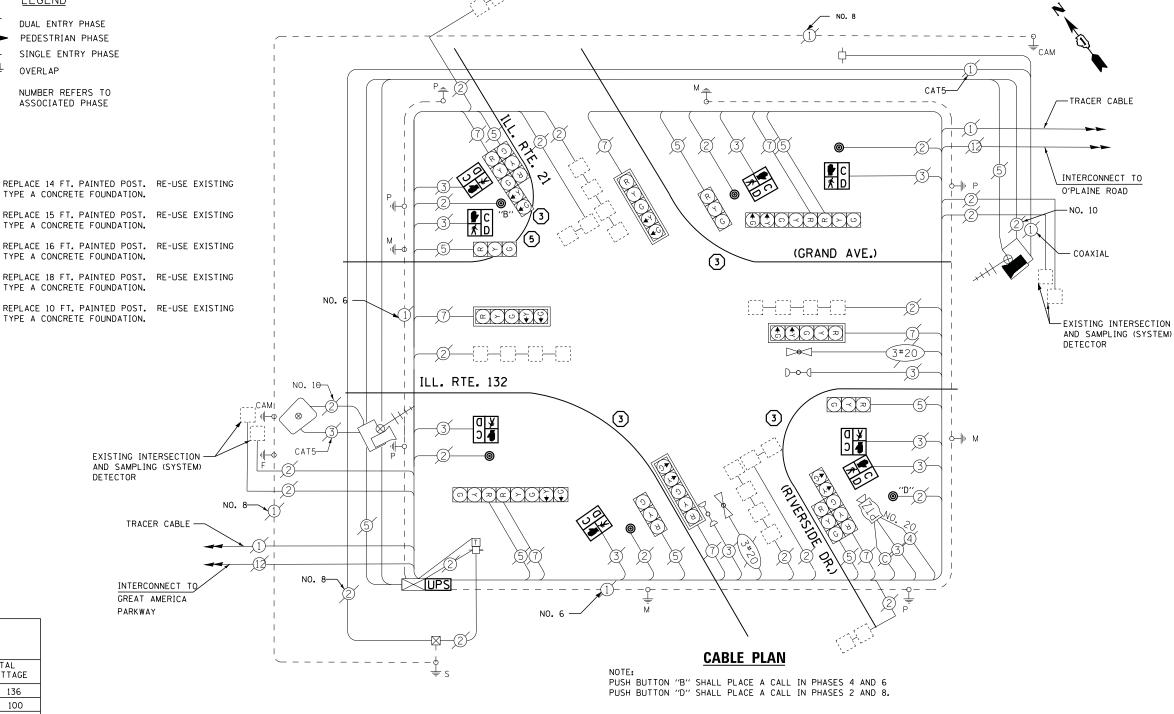
SINGLE ENTRY PHASE

LEGEND

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

- REPLACE 14 FT. PAINTED POST. RE-USE EXISTING
- 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.



SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
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
8	EACH	RELOCATE EXISTING SIGNAL HEAD
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

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 EACH

EACH SIGNAL POST

> TS# 6705 GURNEE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED	-
N:\Projects3\12004\DesignCAD\Sheet Files	\12-002 Sheets NE Lake Co\06705_CAB_LAKE.dg	DRAWN -	JDH	REVISED	-
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED	-
	PLOT DATE = 5/16/2012	DATE -		REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL RTE 21 (RIVERSIDE DR) AT IL RTE 132 (GRAND AVE) SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

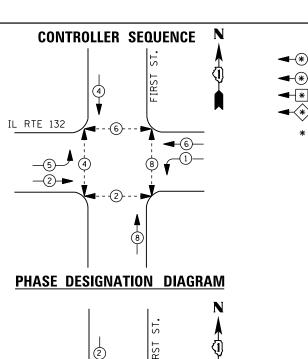
COUNTY TOTAL SHEET NO.

LAKE 97 35 COUNTY CONTRACT NO. 60T42

SECTION

2012-004 I





EMERGENCY VEHICLE PREEMPTION SEQUENCE

1

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	1	2						
MOVEMENT	—	—						

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE % OPERATIONS TOTAL WATTAGE INCAND. LED SIGNAL (RED) 17 102 1 35 0.50 25 0.25 (YELLOW) 12 135 75 (GREEN) 1 35 15 0.25 45 12 ARROW 1 35 0.10 10 PED. SIGNAL 1.00 200 CONTROLLER 100 1 00 1.00 100 25 ILLUM. SIGN 252 0.05 --VIDEO SYSTEM 1.00 150 FLASHER LED TOTAL = 532

I. D. O. T.

ENERGY COSTS-

IL RTE 132

—(1)→

BILLED TO: VILLAGE OF GURNEE

325 N. O'PLAINE RD

GURNEE, IL 60031-2636

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

847-816-5239 COMMONWEALTH EDISON

LEGEND

DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

EXISTING INTERSECTION
AND SAMPLING (SYSTEM)
DETECTORS

TRACER CABLE

ILLINOIS ROUTE 132

INTERCONNECT TO
O'PLAINE ROAD

(*A**)

5 (2)

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

FIRST STREET

R Y G

R Y G

↑ ↑ O ≺ ¬

ਨ ੈ ਨ ≺ ਲ

G ≺ ₹ 5

NO. 6-

R Y G

ت × ع

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

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

R C

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

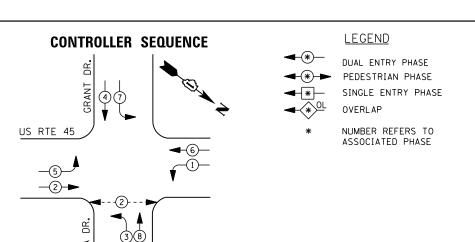
8 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

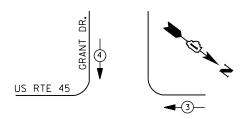
> TS# 6551 GURNEE

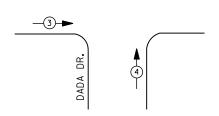
-EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	STATE OF ILLINOIS	IL RTE 132 (GRAND AVE) AT FIRST STREET			SECTION	COUNTY	TOTAL	SHEE
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\06551_CAB_LAKE.dg	DRAWN -	JDH	REVISED -		SCH'	HEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	IXIE.	2012-004 I	LAKE	97	36
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012 00 1	CONTRACT	NO. E	OT42	
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	ID PROJECT		









EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	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	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									

ENERGY COSTS-

BILLED TO: VILLAGE OF GURNEE

325 N. O'PLAINE RD

GURNEE, IL 60031-2636

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

TOTAL =

391

R > G (*) G Mill-O **(1)** US ROUTE 45 **≯.** □ C DADA DRIVE **CABLE PLAN**

GRANT DRIVE

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

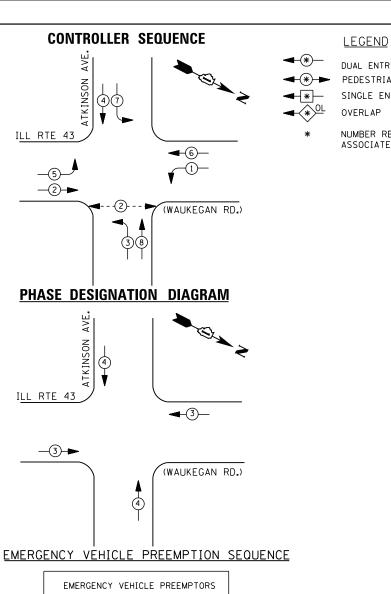
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

TS# 6618 GURNEE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -							RANT DRIVE	F./	A. TE.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-002 Sheets NE Lake Co\06618_CAB_LAKE.dg		JDH	REVISED -	STATE OF ILLINOIS	SCH					DESIGNATION DIAGRAN	<i>n</i> ====		2012-004 I	LAKE	97 37
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRAC	T NO. 60T42						
	PLOT DATE = 5/16/2012	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	-	1	
_		I. D.	. O. T.	_

TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	14	1 35	17	0.50	119				
(YELLOW)	14	1 35	25	0.25	88				
(GREEN)	14	1 35	15	0.25	53				
ARROW	16	1 35	12	0.10	19				
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									

ENERGY COSTS-

BILLED TO: CITY OF NORTH CHICAGO 1850 LEWIS AVE

NORTH CHICAGO, IL 60064

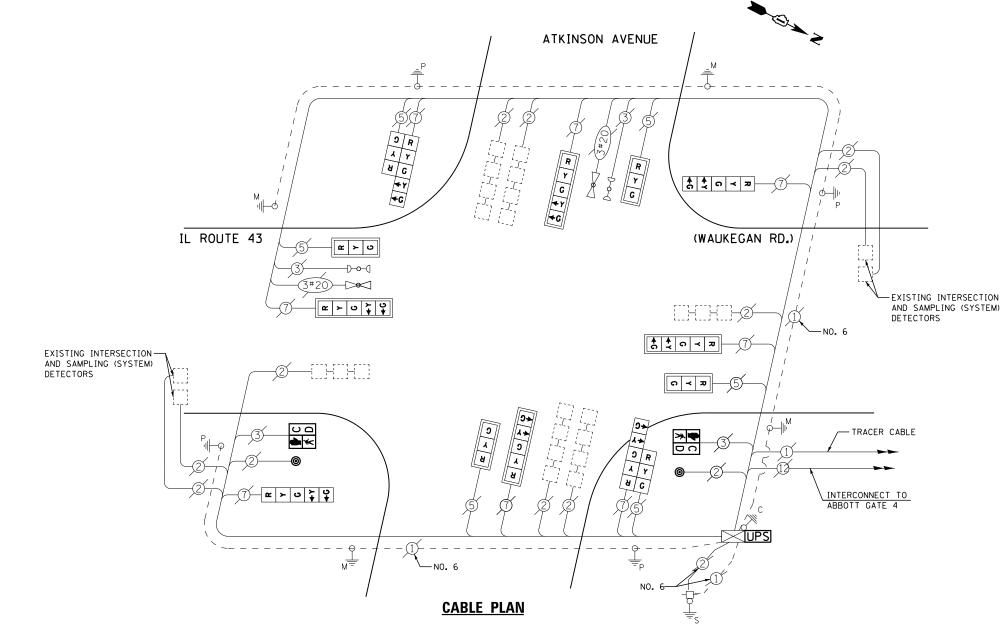
ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE



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

SECTION

2012-004 I

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

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 TRAFFIC SIGNAL BACKPLATE

> TS# 21717 NORTH CHICAGO

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-	
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21717_CAB_LAKE.dgr	DRAWN	-	JDH	REVISED	-	ı
	PLOT SCALE = \$SCALE\$	CHECKED	-	KMM	REVISED	-	İ
	PLOT DATE = 5/16/2012	DATE	-		REVISED	-	ĺ

TOTAL =

429

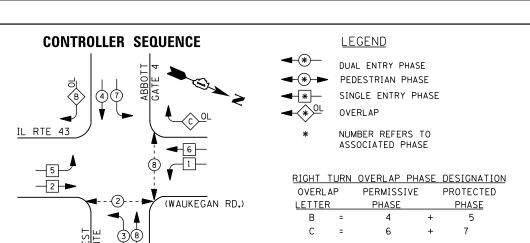
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

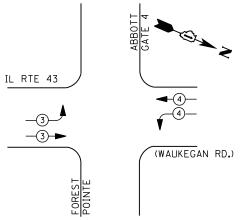
SCHEDU	LE OF C	LUANTÌTIES,	(EGAN RD.) AT Cable Plan, V Vehicle Pri	PHASE DESI	IGNATION DIAGRAM
SCALE: N.T.S.	SHEET	NO. OF	SHEETS	STA.	TO STA.

COUNTY TOTAL SHEET NO.

LAKE 97 38 CONTRACT NO. 60T42







EMERGENCY VEHICLE PREEMPTION SEQUENCE

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)	19	1 35	1 7	0.50	162				
(YELLOW)	19	1 35	25	0.25	119				
(GREEN)	19	1 35	15	0.25	71				
ARROW	16	1 35	12	0.10	19				
PED. SIGNAL	4	90	25	1.00	100				
CONTROLLER	1	1 00	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	1	150	-	1.00	150				
FLASHER LED									
				TOTAL =	721				

I. D. O. T.

ENERGY COSTS-

BILLED TO: CITY OF NORTH CHICAGO

1850 LEWIS AVE NORTH CHICAGO, IL 60064

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

4 EACH PEDESTRIAN SIGNAL HEAD 3 EACH PEDESTRIAN PUSH-BUTTON

10 EACH TRAFFIC SIGNAL BACKPLATE

TS# 21715 NORTH CHICAGO

FILE NAME = USER NAME = \$USER\$ DESIGNED - DW REVISED N:\Projects3\12004\DesignCAD\Sheet Files\\\ 12-002 Sheets NE Loke Co\21715_CAB_LAKE.dgr DRAWN - JDH REVISED PLOT SCALE = \$SCALE\$ CHECKED - KMM REVISED PLOT DATE = 5/16/2012 DATE PLOT DATE = 5/16/2012 DATE -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

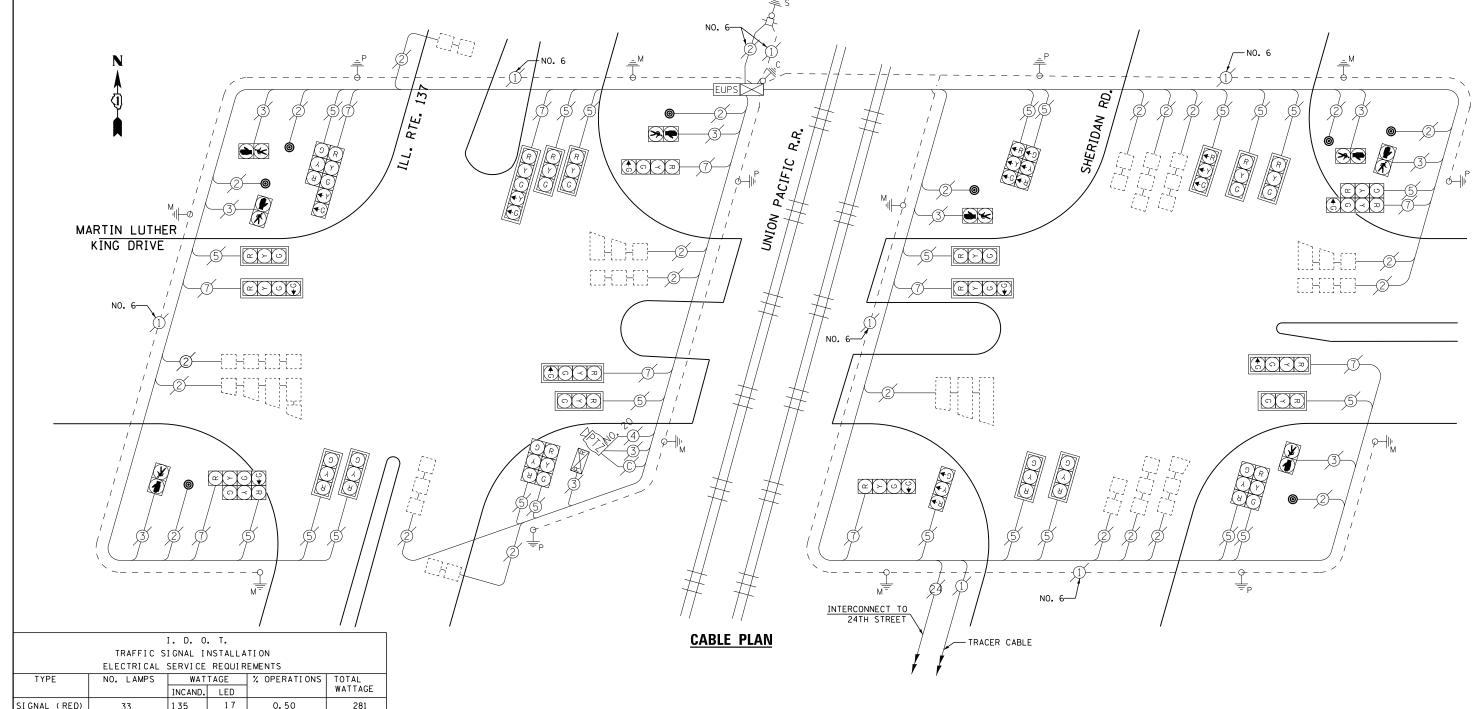
SCALE: N.T.S.

	8 4G / / / / / / / / / / / / / / / / / /	ABBOTT GATE 4	
IL ROUTE 43 5 6 7 7 7 7 7 7 7 7 7 7 7 7			(WAUKEGAN RD.) (WAUKEGAN RD.) A 20 NO. 6 (GREEN) O V D 5
TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE TRACER CABLE	FOREST POINTE	ABLE PLAN	R D TRACER CABLE INTERCONNECT TO ABBOTT GATE 1 ON NO. 6

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

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D





	LLLCTRICAL	JLIN VI CL	INE GOT IN	LIVILIA	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	33	1 35	17	0.50	281
(YELLOW)	33	1 35	25	0.25	206
(GREEN)	41	1 35	15	0.25	154
ARROW	4	1 35	12	0.10	5
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	1 00	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	1	150	-	1.00	150
FLASHER LED					

ENERGY COSTS-

BILLED TO: CITY OF NORTH CHICAGO 1850 LEWIS AVE

NORTH CHICAGO, IL 60064

TOTAL =

1096

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

EACH

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

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN PUSH-BUTTON REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT 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 PUSH-BUTTON

TS# 21085 NORTH CHICAGO

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (SHERIDAN RD) AT 22ND ST/MARTIN LUTHER	MNO DD	F.A. SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\	Sheet Files 12-002 Sheets NE Lake Co\21085_CAB_L	AKE.dgn DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, SEQUENCE OF OPER		2012-004 I	LAKE 97 40
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND RAILROAD PREEMPTION SEQUENCE OF OPERATION		2012-004 1	CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO	STA.	ILLINOIS FED	. AID PROJECT

										SE	QU	ENC	E_C)F_()PEI	RAT	ION																			-
MOVEMENT ILL. RTE. 137 AND MLK JR DR. MLK JR DR. AND SHERIDAN RD.	Z 4 @ · · · · · · · · · · · · · · · · · ·	1	2			#	P		~P		***	1		7/1	^		# # #		##	J.	4	71#	#	P P	/.	/ 11;		##	14	P	_			!#	<i>*</i>	F L
PHASE					1							2						3					4					5					6			
INTERVAL		1	2	3A	38	44	48	4C	4D	5	64	6B	7A	7B	70	7D	8	9A	9B	9C	9D	10	11	12	13	14	15A	158	16A	16B	17	18A	188	18C	18D	S
CHANGE TO			/	2 0f 3	١ ا		4 QF	: 5		/	3			4 01	R 5		/		4 QF	5		Λ	Λ	5	Ą	/	1, Of 6	2	3	.		1, 7	2. 3.	4 OR	5	Н
MARTIN LUTHER KING JR. DR. W FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS (EAST OF TRACK	7B	С	С	Υ	R	Υ	R	R	R	Ř	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
MARTIN LUTHER KING JR. DR.	/B	G -4 G	C G	Υ	R	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
END MAST ARM AND FAR LEFT SIGNALS (EAST OF TRACKS) MARTIN LUTHER KING JR. DR. FAR RIGHT MAST ARM SIGNAL (WEST OF TRACKS)	78	G	G	G	G	С	G	Y	R	G	G	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
	/B	G 	G G	G G	G 	G 	G G	Y	R	G G	G 	С 	G G	G 	Y	R	G G	G G	G G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Ŗ	R
	/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	6	G	G	Υ	R	R
MARTIN LUTHER KING JR. DR. E	/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G	G G	G 	Y	R	R
END MAST ARM AND FAR LEFT SIGNALS (EAST OF TRACKS) MARTIN LUTHER KING JR. DR. FAR RIGHT MAST ARM AND NEAR RIGHT SIGNAL (WEST OF TRACKS)	7B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Я	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	R	R
	/B	R	R	R	R	R	R	R	R	R	R	R.	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G	Y	R	R	Ŗ	R
	/B	R	R	R	R	R	R	R	R	G	G	G	C	G	G	С	G	G	G	G	G	G	С	G	C	G	Y	R	G	G	R	R	R	R	R	R
	1/B	-R	- R	⊸ R	R	⊸ R	R	-≪ R	- R	--G	Y	⊸ R	Y	- ⊲ R	− ≪ R	R	- R	R	R	-R	⊸ R	⊸R	R	⊸ R	R	⊸ R	R	₩R	— a R	R	⊸R	- - R	R	⊸R	⊸ R	⊸R
	5/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	С	G	G	G	G	G	Y	R	С	С	R	R	R	R	R	R
	5/8	R ==	R=	R ===	R ===	R ==-	R =	R=	R 😓	R=	R ===	R ==-	R ==	R ==	R-	R ===	c-	Y-	R=	R=	R ==-	R =	R=	R-	R=	R ≠	R-	R==	R==	R-	R-	R 🖚	R==	R=	R-	R=-
ILL. RTE. 137	1/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G G	G G	G •••Y	G	G	Υ	R	Υ	R	R	R	R	R	R	R
The title 10.	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	Y	R	R	R	R	R	R	R
	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Ç	Υ	R	Y	R	R	R	R	R	R	R
ALL SIGNALS PEDESTRIAN SIGNAL CROSSING MARTIN LUTHER KING JR. DR.		н	н	Н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	н	p*	FH	Н,	p	FĤ	н	н	н	н	н	Н	н	н	н	н
ON EAST SIDE OF SHERIDAN RD. PEDESTRIAN SIGNAL CROSSING SHERIDAN RD.	a==	P	FH	Н	Н	н	н	н	н	н	Н	н	н	н	Н	н	н	н	н	н	Н	н	Н	Н	н	н	н	н	н	н	н	н	н	н	н	н
ON NORTH SIDE OF MARTIN LUTHER KING JR. DR. PEDESTRIAN SIGNAL CROSSING IL. RTE. 137		p	FH	н	н	н	Н	н	н	н	н	Н	Н	Н	н	н	н	н	н	н	Н	Н	н	н	н	н	н	н	н	Н	н	н	Н	н	н	Н
ON NORTH SIDE OF MARTIN LUTHER KING JR. DR. PEDESTRIAN SIGNALS CROSSING MARTIN LUTHER KING JR. DR. ON WEST SIDE OF IL. RTE. 137		н	н	н	К	н	н	Н	Н	н	Н	н	н	н	н	н	н	н	н	н	н	н	н	н	ρ°	FĤ	н	н	Н	н	н	Н	н	Н	н	н

• TO APPEAR ONLY UPON PUSHBUTTON ACTUATION.
•• FLASHING IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK
PHASE 5 SHALL BE PLACED ON RECALL

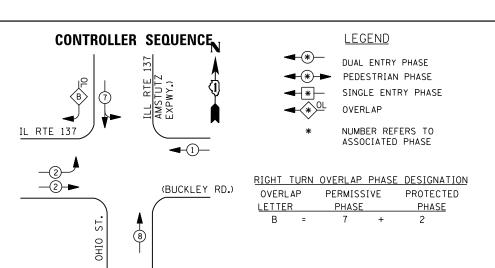
RAILROAD PREEMPT	<u>ION</u>	SEC	UEN	ICE	OF	OPE	RAT	TON					PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8		10)	13	5	17	,					
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	14	18	1C	1D	ΙE	1F	1G	1H	1J	1K	1L	1M	2	3.	4	5	CLEAR TO
CHANCE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	18	2	10	2	1F	S	1H	2	1K	2	1M	2	3	4	5		NORMAL SEQUENCE
MARTIN LUTHER KING JR. DR. W/B FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS (EAST OF TRACKS)	Y	R	R	R	R	R	R	R	R	R	R	R	R	. R	R	R	Δ
MARTIN LUTHER KING JR. OR. END MAST ARM AND FAR LEFT SIGNALS (EAST OF TRACKS)	Υ	R	R	R	к	R	R	к	R	R	R	R	R	R	R	R	Δ
MARTIN LUTHER KING JR. DR. W/B FAR RIGHT MAST ARM SIGNAL (WEST OF TRACKS)	С	G	G	С	G	G	R	Ŕ	R	R	R	R	G	Υ	R	R	Δ
MARTIN LUTHER KING JR. DR. W/8 END MAST ARM AND FAR LEFT SIGNALS (WEST OF TRACKS)	G —G	- - -€	G ⊸ec	G G	G 	с —•с	R	R	R	R	R	R	G	Y	R	R	Δ
MARTIN LUTHER KING JR. DR. E/8 FAR RIGHT MAST ARM SIGNAL (EAST OF TRACKS)	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	Δ
MARTIN LUTHER KING JR. DR. E/B END MAST ARM AND FAR LEFT SIGNALS (EAST OF TRACKS)	R	R	R	R	R	R	R	R	R	R	G	G G	- -G	Y	R	R	Δ
MARTIN LUTHER KING JR. DR. E/B FAR RIGHT MAST ARM AND NEAR RIGHT SIGNAL (WEST OF TRACKS)	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Δ
MARTIN LUTHER KING JR. DR. E/B END MAST ARM AND FAR LEFT SIGNALS (WEST OF TRACKS)	R	R	R	R	Ŕ	R	R	R	R	Ŕ	Y	R	R	R	R	R	Δ.
SHERIDAN ROAD N/B NEAR RIGHT, FAR RIGHT AND MID MAST ARM SIGNALS	R	R	Υ	R	Y	R	Y	R	Y	R	R	R	R	R	R	C	Δ
SHERIDAN ROAD N/B END MAST ARM AND FAR LEFT SIGNALS	■R	-R	⊸ Y	⊸R	−€R	- ⊸ R	⊸ R	→R	~ ≪ R	R	⊸ R			⊸R	⊸R	-R	Δ
SHERIDAN ROAD S/B MID MAST ARM, END MAST ARM, AND FAR LEFT SIGNALS	R	R	R	R	Ÿ	R	Υ	R	Υ	R	R	R	R	R	R	G	Δ
SHERIDAN ROAD S/B NEAR RIGHT AND FAR RIGHT SIGNALS	R ===	R=	R=	R==	Y=	R==	R-	R-	R-	R=	R=	R=	R →	R==	R►	R=	Δ
ILL. RTE. 137 N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	Υ	R	Y	R	R	R	R	R	R	G	Δ
ILL. RTE. 137 N/B FAR RIGHT MAST ARM SIGNAL AND NEAR RIGHT SIGNAL	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	G	Δ
ILL. RTE. 137 S/B ALL SIGNALS	R	R	R	R	Ŕ	R	R	R	Y	8	R	R	R	R	R	G	Δ
PEDESTRIAN SIGNAL CROSSING MARTIN LUTHER KING JR. DR. ON EAST SIDE OF SHERIDAN RD.	Н	н	н	н	Н	Н	FH	н	FH	н	н	н	н	Н	н	н	Δ
PEDESTRIAN SIGNAL CROSSING SHERIDAN RD. ON NORTH SIDE OF MARTIN LUTHER KING JR. DR.	FH	Н	н	н	Н	н	н	н	н	Н	н	н	н	н	н	н	Δ
PEDESTRIAN SIGNAL CROSSING IL. RTE. 137 ON NORTH SIDE OF MARTIN LUTHER KING JR. DR.	FH	К	Н	н	н	Н	Н	н	н	н	н	H	н	н	Н	н	Δ
PEDESTRIAN SIGNALS CROSSING MARTIN LUTHER KING JR. DR. ON WEST SIDE OF IL. RTE. 137	н	н	н	н	н	н	н	н	FH	н	н	н	н	н	н	н	Δ

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

TS# 21085 NORTH CHICAGO

								·	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (SHERIDAN RD) AT 22ND ST/MARTIN LUTHER KING DR	F.A. RTF	SECTION	COUNTY TOTAL SHEE
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21085A_CAB_LAKE.c	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, SEQUENCE OF OPERATION		2012-004 I	LAKE 97 41
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND RAILROAD PREEMPTION SEQUENCE OF OPERATION		2012 00 1	CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. AI	





		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	17	1 35	1 7	0.50	145
(YELLOW)	17	1 35	25	0.25	106
(GREEN)	26	1 35	15	0.25	98
ARROW	0	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	ı	1.00	1
FLASHER LED					
				TOTAL =	449

USER NAME = \$USER\$

PLOT DATE = 5/16/2012

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

PHASE DESIGNATION DIAGRAM

201 WEST CENTER COURT

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

REVISED

REVISED

REVISED

REVISED

SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT TERRI BLECK

FILE NAME =

N:\Projects3\12004\DesignCAD\Sheet File

PHONE 847-816-5239 COMMONWEALTH EDISON

s 12-002 Sheets NE Lake Co\21010_CAB_LAKE.dg

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION IL RTE 137 (AMSTUTZ EXPY) AT IL RTE 137 (BUCKLEY RD) SCHEDULE OF QUANTITIES, CABLE PLAN 2012-004 I AND PHASE DESIGNATION DIAGRAM SHEET NO. OF SHEETS STA.

SCHEDULE OF QUANTITIES

QUANTITY EACH

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

OHIO STREET

CABLE PLAN

TS# 21010 NORTH CHICAGO

TRACER CABLE INTERCONNECT TO ILLINOIS STREET М∥⊸ф NO. 6 — GREEN ILL. ROUTE 137

SCALE: N.T.S.

(F) (F) (F)

037

φ-||⊩M

(BUCKLEY ROAD)

−NO. 6 GREEN

ILL. ROUTE 137

(AMSTUTZ EXPWY.)

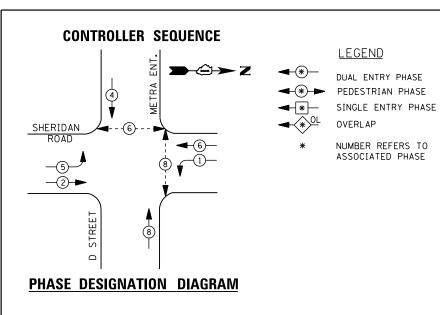
CONTRACT NO. 60T42

COUNTY TOTAL SHEET NO.

LAKE 97 42

COUNTY



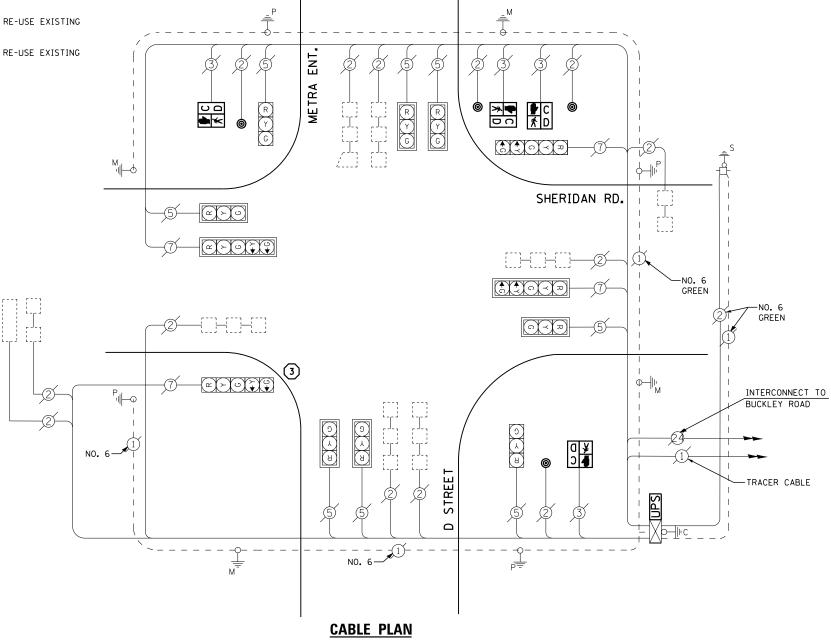


1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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

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

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



I. D. O. T. TRAFFIC SIGNAL INSTALLATION

	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	12	1 35	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	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: IDOT DISTRICT 1 201 WEST CENTER COURT

TOTAL =

SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK PHONE 847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	RELOCATE EXISTING SIGNAL HEAD
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.

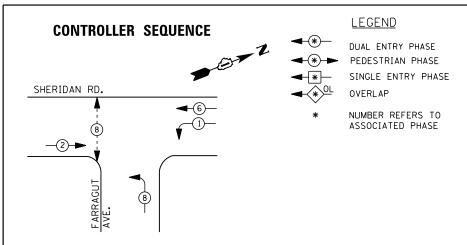
EACH PEDESTRIAN PUSH-BUTTON

4 EACH PEDESTRIAN SIGNAL HEAD 1 EACH SIGNAL POST

TS# 11598 NORTH CHICAGO

→②→ Z

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			SHERIDAN ROAD AT "D" STREET /METRA ENT.	F.A.	SECTION	COUNTY	TOTAL SHE
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\11598_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES, CABLE PLAN	11112	2012-004 I	LAKE	97 4
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND PHASE DESIGNATION DIAGRAM			CONTRACT	NO. 60T4
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.		



		I. D. O	. т.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	10	1 35	17	0.50	85
(YELLOW)	10	1 35	25	0.25	63
(GREEN)	10	1 35	15	0.25	38
ARROW	4	1 35	12	0.10	5
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	1 00	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	1
VIDEO SYSTEM		150	-	1.00	-
FLASHER LED					

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

PHASE DESIGNATION DIAGRAM

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

CONTACT TERRI BLECK ENERGY SUPPLY -

FILE NAME =

PLOT SCALE = \$SCALE\$

PLOT DATE = 5/16/2012

PHONE 847-816-5239 COMMONWEALTH EDISON USER NAME = \$USER\$ DESIGNED REVISED DW N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\11597_CAB_LAKE.dg DRAWN JDH REVISED

KMM

CHECKED

DATE

PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN PUSH-BUTTON EACH EACH MODIFY EXISTING CONTROLLER CABINET EACH 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 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

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

SCHEDULE OF QUANTITIES

<u>ITEM</u>

<u>UNIT</u>

EACH

EACH

QUANTITY

REVISED

REVISED

<u>UPS</u> TRACER CABLE TRACER CABLE R Y G റ ≺ ਸ਼ R INTERCONNECT TO 24TH STREET G SHERIDAN ROAD _(5)<u>~</u> x > v ~ ~ ° ~ ° NO. 6-ດ ≺ ⊅ ~ > U + V R Y G FARRAGUT AVENUE

CABLE PLAN

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

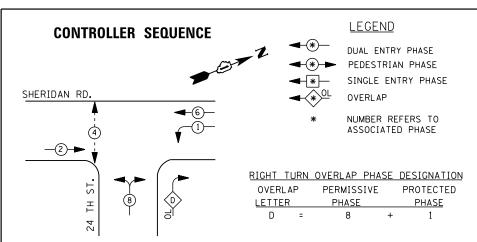
PEDESTRIAN SIGNAL HEAD 2 EACH

2 EACH PEDESTRIAN PUSH-BUTTON

> TS# 11597 NORTH CHICAGO

CTATE OF HUMBIO				OAD AT FA			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STATE OF ILLINOIS				OF QUANTIT				2012-004 I	LAKE	97	44
DEPARTMENT OF TRANSPORTATION			D PHAS	E DESIGNA		KAW			CONTRACT	NO. 6	0T42
	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





		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)	10	1 35	1 7	0.50	85
(YELLOW)	10	1 35	25	0.25	63
(GREEN)	10	1 35	15	0.25	38
ARROW	8	1 35	12	0.10	10
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
				TOTAL =	346

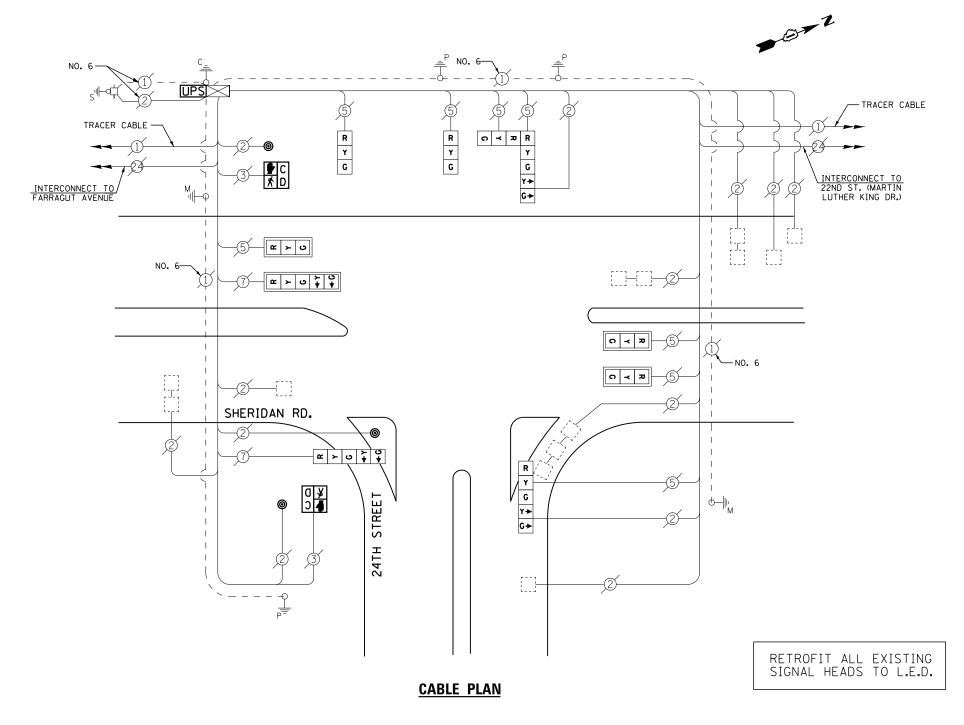
ENERGY COSTS-

BILLED TO: CITY OF NORTH CHICAGO

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

1850 LEWIS AVE NORTH CHICAGO, IL 60064 847-816-5239 COMMONWEALTH EDISON



SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

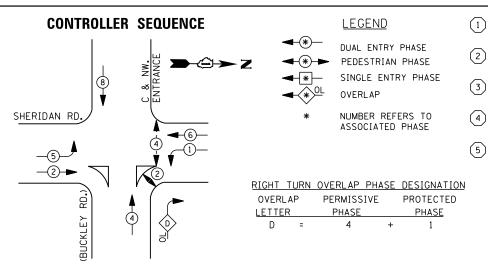
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

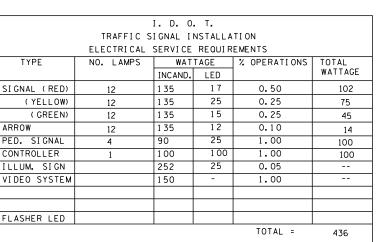
2 EACH PEDESTRIAN SIGNAL HEAD 3 EACH PEDESTRIAN PUSH-BUTTON

TS# 11596 NORTH CHICAGO

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		SHERIDAN ROAD AT 24TH STREET	F.A. SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\S	et Files 12-002 Sheets NE Lake Co\11596_CAB_LAKE	dgr DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN	2012-004 I	LAKE 97 45
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND PHASE DESIGNATION DIAGRAM	'	CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. A	AID PROJECT







BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

201 WEST CENTER COURT SCHAUMBURG. IL 60196-1096

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

PHASE DESIGNATION DIAGRAM

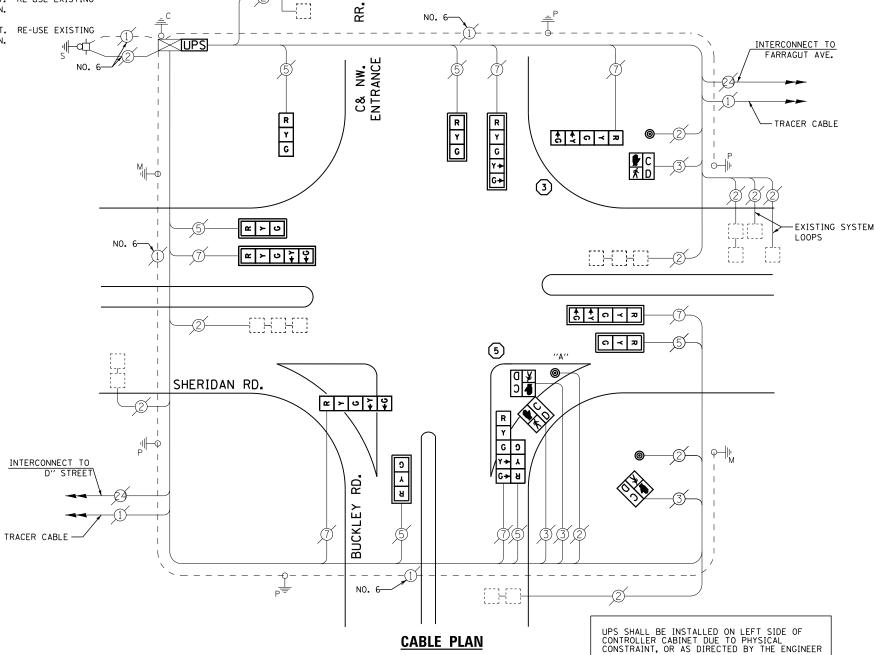
847-816-5239 COMMONWEALTH EDISON 1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

(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.

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



SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
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
7	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
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.

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

EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

EACH TRAFFIC SIGNAL BACKPLATE SIGNAL POST EACH

SCALE: N.T.S.

SHEET NO.

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

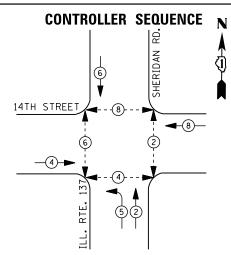
TS# 11595 NORTH CHICAGO

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\11595_CAB_LAKE.dg DRAWN JDH REVISED CHECKED KMM REVISED PLOT DATE = 5/16/2012 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SHERIDAN ROAD AT BUCKLEY ROAD SECTION COUNTY SCHEDULE OF QUANTITIES, CABLE PLAN LAKE 97 46 2012-004 I AND PHASE DESIGNATION DIAGRAM CONTRACT NO. 60T42 OF SHEETS STA. TO STA.





LEGEND

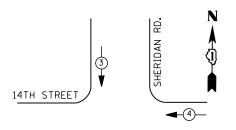
DUAL ENTRY PHASE PEDESTRIAN PHASE

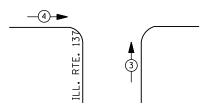
OVERLAP

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)	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	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 =	715					

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: CITY OF NORTH CHICAGO 1850 LEWIS AVE

NORTH CHICAGO, IL 60064

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

R Y G ←Y ←G Y G 14TH STREET ت × ع NO. 6-D-0-(1-ດ **≺** ສ <u>අ</u> ≻ ප R Y G RTE. -TRACER CABLE **CABLE PLAN** INTERCONNECT TO RETROFIT ALL EXISTING 16TH STREET SIGNAL HEADS TO L.E.D. PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

INTERCONNECT TO 10TH STREET

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

8 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

> TS# 9415 NORTH CHICAGO

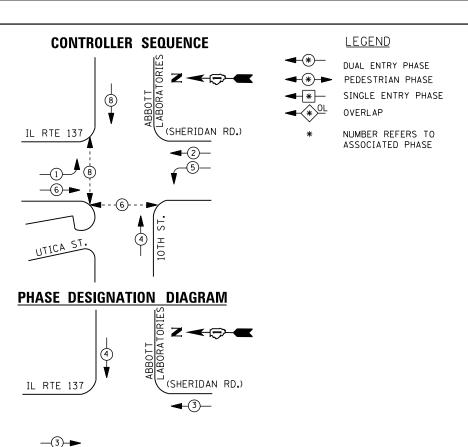
COUNTY TOTAL SHEET NO. LAKE 97 47

CONTRACT NO. 60T42

N

FI	ILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (SHERIDAN RD.) AT 14TH STREET	F.A. RTF.	SECTION	COUNTY
N:	:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\09415_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT
		PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AII	ID PROJECT





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	† †	†				

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE % OPERATIONS TOTAL WATTAGE NO. LAMPS INCAND. LED SIGNAL (RED) 111 1 35 17 0.50 25 0.25 (YELLOW) 13 135 81 (GREEN) 1 35 15 0.25 49 13 ARROW 1 35 0.10 10 PED. SIGNAL 1.00 100 CONTROLLER 100 1 00 1.00 100 25 ILLUM. SIGN 252 0.05 --VIDEO SYSTEM --1.00 150 FLASHER LED TOTAL =

I. D. O. T.

ENERGY COSTS-

BILLED TO: CITY OF NORTH CHICAGO 1850 LEWIS AVE

NORTH CHICAGO, IL 60064 CONTACT TERRI BLECK ENERGY SUPPLY -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.

4 EACH PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON

ABBOTT LABORATORIES R Y G R Y G * * O < * * O <u>د</u> ۲ ت ILLINOIS ROUTE 137 NO. 4-(SHERIDAN ROAD) w > ∪ ¥ ¥ A A O < 7 n ≺ ಸ –5 ~ > U } R S R C 0 ¥ ∪ □ 3 **4 →** ≮ Я STREET RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D. **CABLE PLAN** UTICA STREET TDOWN TIMER TDOWN TIMER PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

Z - -

SCHEDULE OF QUANTITIES

QUANTITY	<u>UN 1 T</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNT
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNT
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
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
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TS# 9407 NORTH CHICAGO

FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\09407_CAB_LAKE.do DRAWN JDH REVISED CHECKED KMM REVISED REVISED PLOT DATE = 5/16/2012 DATE

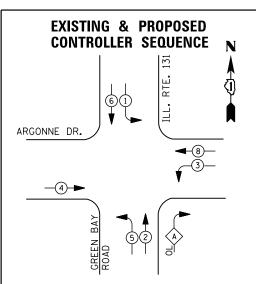
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: N.T.S.

COUNTY TOTAL SHEET NO.

LAKE 97 48 COUNTY IL ROUTE 137 (SHERIDAN RD.) AT 10TH ST/ABBOTT LABORATORIES SECTION SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 2012-004 I CONTRACT NO. 60T42 SHEET NO. OF SHEETS STA.





LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION PERMISSIVE PROTECTED 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)	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		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	360				

ENERGY COSTS-

ENERGY SUPPLY -

FILE NAME =

BILLED TO: CITY OF NORTH CHICAGO 1850 LEWIS AVE

NORTH CHICAGO, IL 60064

CONTACT TERRI BLECK PHONE 847-816-5239

USER NAME = \$USER\$

PLOT DATE = 5/16/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\09385_CAB_LAKE.do

COMMONWEALTH EDISON

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
10	EACH	INDUCTIVE LOOP DETECTOR
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, 3-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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)

CABLE PLAN

(S) | (B) | (C) |

ILL. RTE. 131

R Y G ←Y ←G

(5) (2)

ARGONNE DR.

~ × ° × °

- x > 0 }

SCALE: N.T.S.

(GREEN BAY RD.)

R Y G G + G +

o ≺ x 5

TS# 9385 NORTH CHICAGO

UPS

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

								NONTH	CHIC	, AG
	IL ROUTE 131 (GREEN BAY RD.) AT ARGONNE DRIVE					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE
SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM							2012-004 I	LAKE	97	49
								CONTRACT	NO. 6	50T4
	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	AID PROJECT		

A → YD GA Y →B G →

REVISED

REVISED

REVISED

REVISED

SEQUENCE OF OPERATION

								·			*************					•
MOVEMENT P			ز _ 5	· —	1	+	— 6 — 1	5 - 2 -	<i>_</i> •	2-	- +-	6		4 1 † 8		F.
PHASE			1 -	+ 5		1 -	÷ 6	2 -	+ 5	- 7	2 + (3	-	1 + 8	3	L
INTERVAL		1	2	3	4	5	6	7	8	9	104	108	11	12A	12B	Δ 5
CHANGE TO			1+6	2+5	2+6		2+6		2+6		4-	ł-8		1 · 2 ·	÷ ÷ ÷ ÷	н
ILL ROUTE 137 (BUCKLEY ROAD) FAR RIGHT MAST ARM SIGNAL	E/B	R	R	R	R	R	R	G	G	G	Υ	R	R	R	R	R
ILL ROUTE 137 (BUCKLEY ROAD) END MAST ARM AND FAR LEFT SIG	E/B NALS	R ⊸s G	- ₹ ~-•••• Υ	R ⊶• G	R ⊸a-Y	R	R	G ~≪a.G	G ⊶#∙Y	G	Y	R	R	Ħ	R	R
ILL. ROUTE 137 (BUCKLEY ROAD) FAR RIGHT MAST ARM SIGNAL	W/B	R	Я	R	R	G	G	R	R	G	Υ	R	R	R	R	R
ILL. ROUTE 137 (BUCKLEY ROAD) END MAST ARM AND FAR LEFT SIG	W/B NALS	R 	R ⊸≕+G	-R 	R - 4 - Y	G ⊸• G	G ⊸∓ Y	R	ľ₹	G	Υ	R	R	R	R	R
RAY STREET ALL SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	Ft
HAY STREET ALL SIGNALS	5/8	R	R	R	R	R	В	R	R	R	R	R	G	Y	R	R

PHASE 2+6 SHALL BE PLACED ON RECALL.

RAILROAD PREEMPTION SEQUENCE OF OPERATION

									NUMBER 2				
	1	5		7		3	1	1					
	1,4	1B	10	10	1 E	1F	1 G	18	2	3	4	5	CLEAR
BER	2	2	1D	2	1F	2	1H	2	3	4	5		NORMAL SEQUENCE
E/8	R	R	Y	R	Υ	R	R	R	R	R	R	R	Δ
E/B	R es-Y	R	Y	R	Y	R	R	R	R	R	R	R	Δ
K/8	R	G	R	R	G	G	R	R	G	Υ	R	R	Δ
W/B	R ⊸≪-G	G - ≠G	R	R	G	G	R	R	G ⊸n:G	Y	R	R	Δ
/8	R	R	R	R	R	R	Y	R	Ŗ	R	R	G	Δ
/B	R	R	R	R	R	R	Υ	R	R	R	R	G	Δ
	BER E/B E/B W/B W/B	2 E/B R E/B R R W/B R R R R R R R R R R R R R R R R R R R	1.4 1B 2 2 E/B R R E/B R R E/B R R MY/B R G MY/B R G MY/B R G MY/B R R	1 Å 1 B 1 C BER Z Z 1 D E/B R R Y E/B R R Y E/B R G R M/B R G R M/B R G R M/B R G R	1A 1B 1C 1B ERR Z 2 1D 2 E/B R R Y R E/B R R Y R M/B R G R R M/B R G R R M/B R G R R M/B R G R R	1A 1B 1C 1D 1E BER Z 2 1D 2 1F E/B R R Y R Y E/B R R Y R Y E/B R G R R G M/B R G R R G M/B R G R R G M/B R G R R G	1A 1B 1C 1B 1E 1F BER Z Z 1D Z 1F Z E/B R R Y R Y R E/B R R Y R Y R MYB R G R R G G MYB R G R R G G MYB R R R R R R R	1 A 1 B 1 C 1 D 1 E 1 F 1 G BER	1A 1B 1C 1B 1E 1F 1G 1H 2 2 1D 2 1F 2 1H 2 E/B R R Y R Y R R R E/B R R Y R Y R R R E/B R R R R R R R R R E/B R R R R R R R R R E/B R R R R R R R R E/B R R R R R R R R E/B R R R R R R R R E/B R R R R R R R R R E/B R R R R R R R R R	1 5 7 9 11 14 18 10 10 16 17 16 18 2 2 18 2 3 3 3 3 3 3 3 3 3	1 5 7 9 11 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 5 7 9 11 1 1 1 1 1 1 1	HUMBER 2 1 5 7 9 11

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

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	10	1 35	1 7	0.50	85
(YELLOW)	10	1 35	25	0.25	63
(GREEN)	10	1 35	15	0.25	38
ARROW	8	1 35	12	0.10	10
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	ı	1.00	-
FLASHER LED					

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

TOTAL =

296

ENERGY SUPPLY -CONTACT TERRI BLECK

ENERGY COSTS-

PHONE 847-816-5239 COMMONWEALTH EDISON

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

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

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

RAY STREET INTERCONNECT TO ILLINOIS STREET TRACER CABLE -R Y G TRACER CABLE **↑** ↑ ∩ ≺ ¬ 3 INTERCONNECT TO 1 LEWIS AVENUE (BUCKLEY ROAD) **2** ≻ ∪ NO. 6-(GREEN) @ > O \ \ **↑** ↑ ○ ≺ ¬ (GREEN) [○ ≺ 교 ILL. ROUTE 137 ~ > O } Q **CABLE PLAN**

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

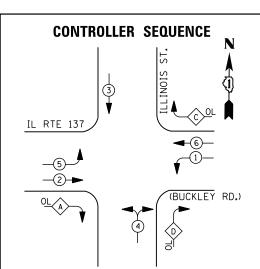
6 EACH SIGNAL HEAD, 3 - SECTION SIGNAL HEAD, 5 - SECTION EACH

TRAFFIC SIGNAL BACKPLATE 6 EACH SIGNAL POST 4 EACH

> TS# 7175 NORTH CHICAGO

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL RTE 137 (BU	UCKLEY	RD) AT	RAY S	STREET /FOR	RESTAL VILLAGE	F.A.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\07175_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES, CABLE PLAN, SEQUENCE OF OPERATION			RIE.	2012-004 I	LAKE	97 50			
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND RAILROAD PREEMPTION SEQUENCE OF OPERATION						CONTRACT	T NO. 60T42		
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OI	SHE	EETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT	





LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

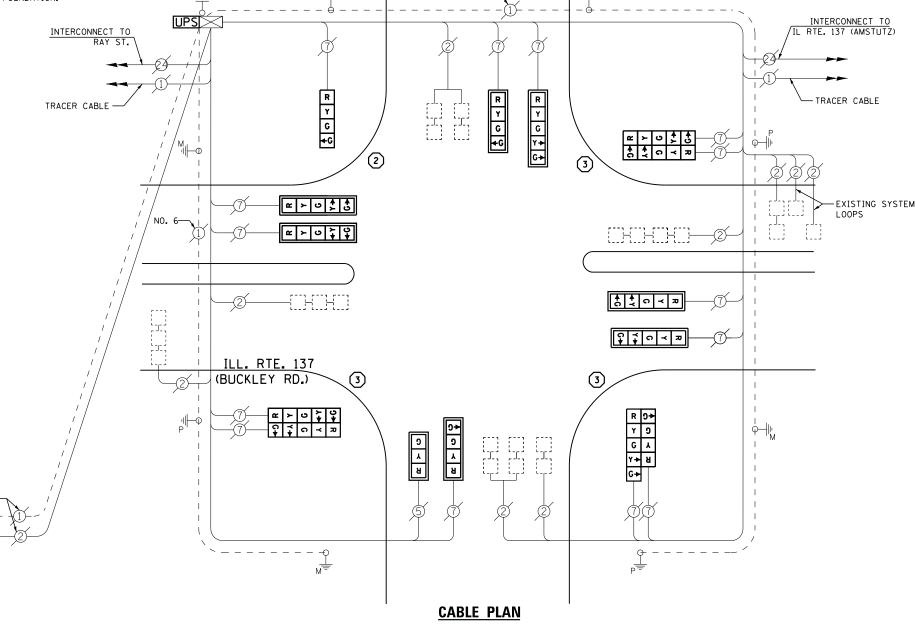
RIGHT	TURN	OVERLAP	PHASE	DESIGNATIO	Ν
OVERL	AP	PERMISSI	.VE	PROTECTED	
LETTE	R	PHASE		PHASE PHASE	
Α	=	2	+	4	
С	=	6	+	3	
D	=	4	+	1	

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

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.



ILLINOIS STREET

NO. 6-

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

TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	15	1 35	1 7	0.50	128
(YELLOW)	15	1 35	25	0.25	94
(GREEN)	19	1 35	15	0.25	71
ARROW	20	1 35	12	0.10	24
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					

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

TOTAL =

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
i	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 15 FT.
3	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, 4-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

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, 4 - SECTION 10 EACH SIGNAL HEAD, 5 - SECTION 4 EACH SIGNAL POST 8 EACH

SCALE: N.T.S.

TRAFFIC SIGNAL BACKPLATE TS# 7170

NORTH CHICAGO

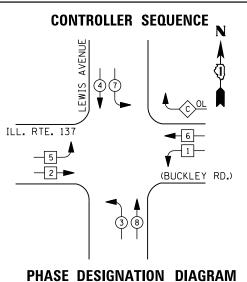
FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\07170_CAB_LAKE.dg DRAWN JDH REVISED CHECKED KMM REVISED PLOT DATE = 5/16/2012 REVISED DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY TOTAL SHEET NO.

LAKE 97 51 COUNTY IL ROUTE 137 (BUCKLEY ROAD) AT ILLINOIS STREET SECTION SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM 2012-004 I CONTRACT NO. 60T42 SHEET NO. OF SHEETS STA. TO STA.





RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED LETTER PHASE

PHASE PHASE

LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

I. D. O. T.

INCAND. LED

17

25

15

1 00

25

BILLED TO: IDOT DISTRICT 1

CONTACT TERRI BLECK 847-816-5239

WATTAGE % OPERATIONS TOTAL

0.50

0.25

0.25

0.10

1.00

1.00

0.05

1.00

TOTAL =

201 WEST CENTER COURT

COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

WATTAGE

145

106

64

14

100

150

579

TRAFFIC SIGNAL INSTALLATION

ELECTRICAL SERVICE REQUIREMENTS

1 35

135

1 35

1 35

100

252

150

PHONE

17

17

12

SIGNAL (RED)

PED. SIGNAL

CONTROLLER

ILLUM. SIGN

VIDEO SYSTEM

FLASHER LED

ENERGY COSTS-

ENERGY SUPPLY -

ARROW

(YELLOW)

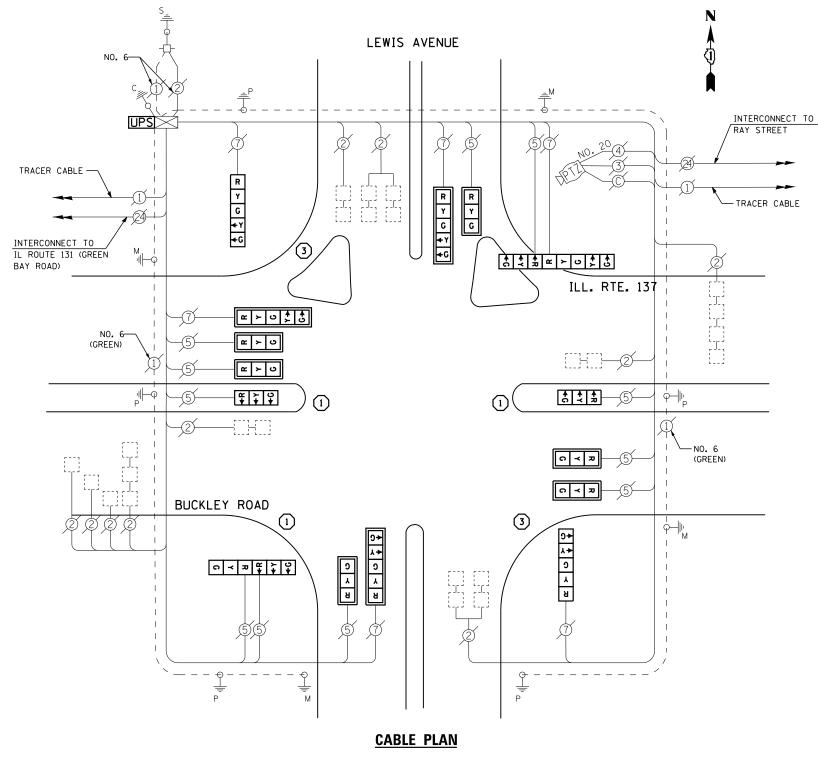
(GREEN)

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

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

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

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



SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	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, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
9	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

SIGNAL HEAD, 3 - SECTION SIGNAL HEAD, 5 - SECTION EACH 9 EACH TRAFFIC SIGNAL BACKPLATE

5 EACH SIGNAL POST

SCALE: N.T.S.

TS# 7160 NORTH CHICAGO

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\07160_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	
	PLOT DATE = 5/16/2012	DATE -		REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	ILLINOIS RTE 137 (BUCKLEY RD) AT LEWIS AVENUE SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM						F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								2012-004 I	LAKE	97	52
	AIVL	FIIAS	DE DESIGNA	TION DIAGN	AIVI				CONTRACT	NO. 6	OT42
	SHEET NO.	OF	SHEETS	STA.	Т	O STA.		ILLINOIS FED. A	D PROJECT		



IL RTE 137



⇘

DUAL ENTRY PHASE PEDESTRIAN PHASE

LEGEND

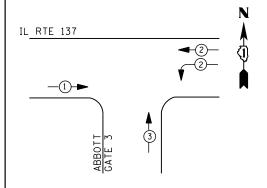
SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION PERMISSIVE PROTECTED <u>LETTER</u> PHASE PHASE PHASE 2 Α 2 8

PHASE DESIGNATION DIAGRAM

8



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	1	2	3					
MOVEMENT	-							

TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% 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	4	1 35	12	0.10	5					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00	-					
FLASHER LED										
				TOTAL =	383					

I. D. O. T.

ENERGY COSTS-

FILE NAME =

BILLED TO: CITY OF NORTH CHICAGO 1850 LEWIS AVE

USER NAME = \$USER\$

PLOT SCALE = \$SCALE\$

PLOT DATE = 5/16/2012

NORTH CHICAGO, IL 60064

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

N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\07125_CAB_LAKE.dg

COMMONWEALTH EDISON

DRAWN

DATE

CHECKED

MOVEMENT	-								
EMERGENCY VEHICLE PREEMPTOR	1	2	3						
EMERGENCY VEHICLE PREEMPTORS									

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

> TS# 7125 NORTH CHICAGO

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

N

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION						NCE /GATE 3	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCHE	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE					2012-004 I	LAKE	97	53	
		AND EIVIE	NGENUT	VENIULE P	NEEIVIP I IU	N SEQUENCE			CONTRAC	T NO. 6	OT42
	SCALE: N.T.S.	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.						TILINOIS FED A	ID PROJECT		

	,	,	<u>=</u> P -→	<u>=</u> M ↑	NO.	6	- \	
	/ 	5	5	\$55	3#20	5		
	 	R ←Y ←G	R ←Y ←G	Υ÷ G÷	, Å	R Y+ G+		
	M	ILLINOIS ROUTE 13	7					
		5				[]-[]-[]-[]-[]-[]-[]-[]-[]-[]-[]-[]-[]-[
		3				3#20 D-0 3		
	[-]				○	₹ ↑ ₹ ₽		
	Ø		\					
TRACER C	ABI F —				R Y+			TRACER CABLE
		75			G +		INTER I	CONNECT TO L ROUTE 43
INTERCONNECT TO/ RAMPS A & B (I-94, TRI-STATE TOLLWAY)		<u> </u>					-1/2	
				ABBOTT GATE 3	I		NO. 6	
				CABLE PLAN			\$ s	

SCHEDULE OF QUANTITIES

DESIGNED REVISED DW

REVISED

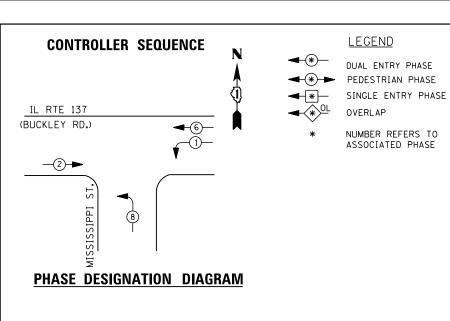
REVISED

REVISED

JDH

KMM



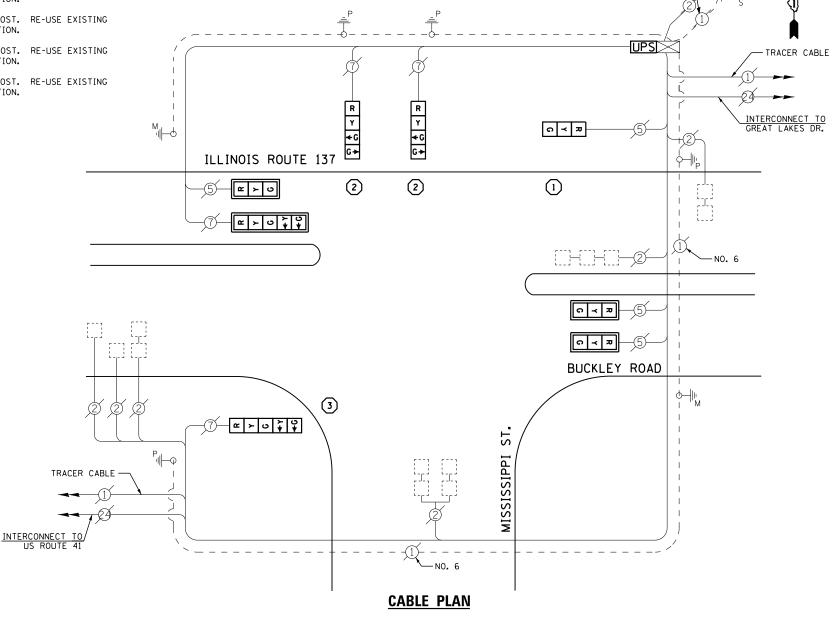


REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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

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

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



I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REOUIREMENTS TYPE NO. LAMPS WATTAGE % OPERA

	ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL							
		INCAND.	LED		WATTAGE							
SIGNAL (RED)	8	1 35	1 7	0.50	68							
(YELLOW)	8	1 35	25	0.25	50							
(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	1 00	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	ı	1.00								
FLASHER LED												

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

TOTAL =

ENERGY SUPPLY - CONTACT TERRI BLECK

CONTACT TERRI BLECK
PHONE 847-816-5239

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SCALE: N.T.S.

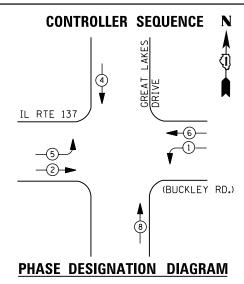
TS# 7120 NORTH CHICAGO

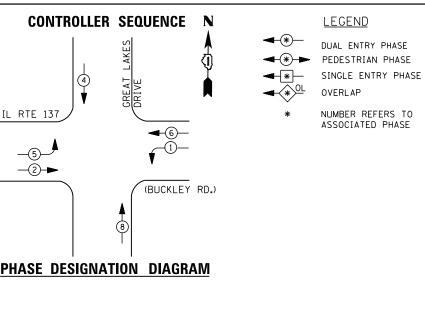
FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\07120_CAB_LAKE.dg	DRAWN	-	JDH	REVISED	-
	PLOT SCALE = \$SCALE\$	CHECKED	-	кмм	REVISED	-
	PLOT DATE = 5/16/2012	DATE	-		REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

								NONTH	CHIC	AUU
	IL ROUTE 13					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM					2012-004 I	LAKE	97	54	
							CONTRACT	NO. 6	OT42	
	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		







I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.		WATTAGE						
SIGNAL (RED)	10	1 35	1 7	0.50	85					
(YELLOW)	10	1 35	25	0.25	63					
(GREEN)	10	1 35	15	0.25	38					
ARROW	8	1 35	12	0.10	10					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	ı	1.00	1					
FLASHER LED										
				TOTAL =	296					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

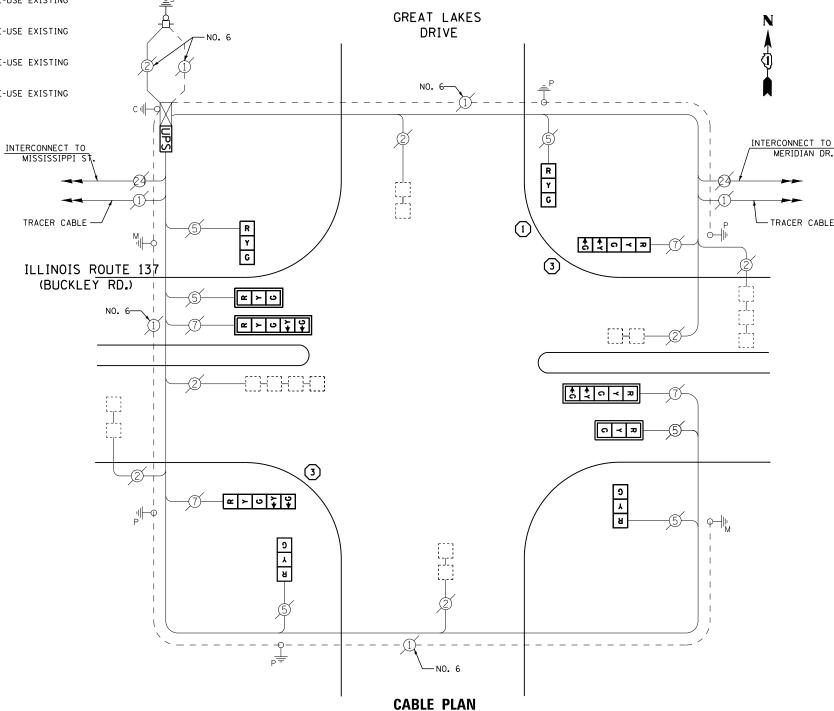
SCHAUMBURG, IL 60196-1096

847-816-5239 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.

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



SCHEDULE OF QUANTITIES

<u>YTITNAUQ</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTE
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTE
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

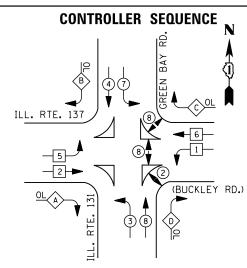
6 EACH SIGNAL HEAD, 3 - SECTION 4 EACH SIGNAL HEAD, 5 - SECTION 4 EACH TRAFFIC SIGNAL BACKPLATE

3 EACH SIGNAL POST

TS# 7115 NORTH CHICAGO

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (BUCKLEY ROAD) AT GREAT LAKES DRIVE	F.A.	SECTION CO	TOT	TAL SHEET
N:\Projects3\12004\DesignCAD\Sheet File	12-002 Sheets NE Lake Co\07115_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN	KIL.	2012-004 I L	AKE 9	7 55
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND PHASE DESIGNATION DIAGRAM			TRACT NO	. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJ	ECT	





LEGEND

DUAL ENTRY PHASE

** PEDESTRIAN PHASE

SINGLE ENTRY PHASE

★OL OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	1	
OVERI	_AP	PERMISS	IVE	PROTECTED		
LETTE	R	PHASE		PHASE PHASE		
Α	=	2	+	3		
В	=	4	+	5		
С	=	6	+	7		
D	_	Ω		1		

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
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	24	1 35	12	0.10	29					
PED. SIGNAL	6	90	25	1.00	150					
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM	1	150	-	1.00	150					
FLASHER LED										
				TOTAL =	837					

ENERGY COSTS- BI

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

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

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

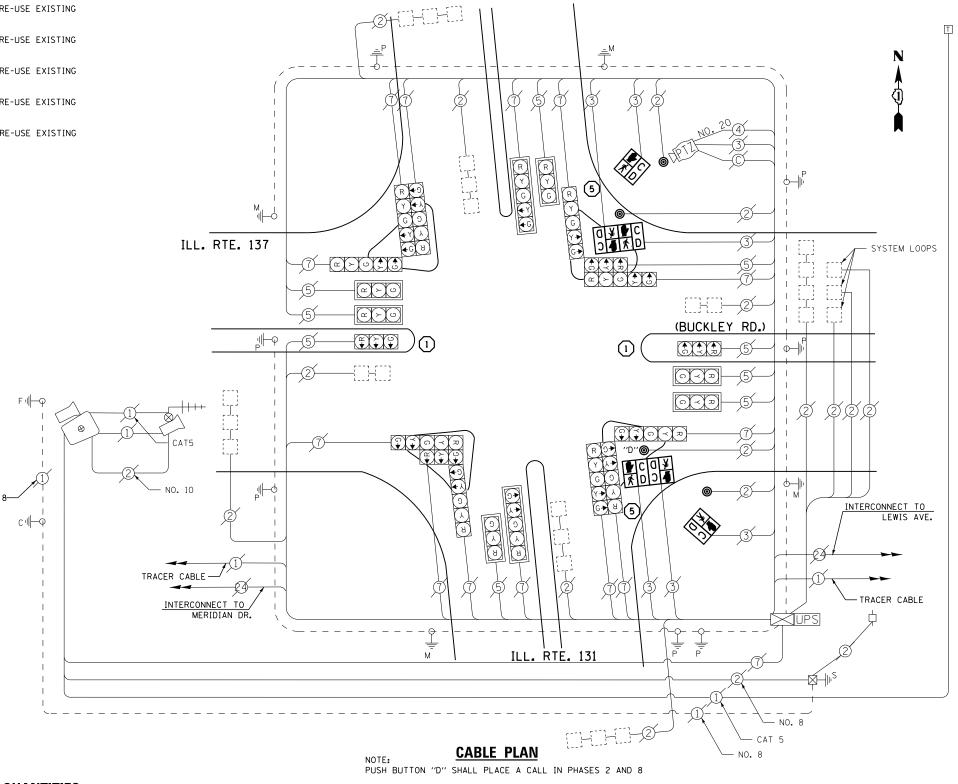
847-816-5239 COMMONWEALTH EDISON 1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

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.

TYPE A CONCRETE FOUNDATION.



(GREEN BAY ROAD)

SCHEDULE OF QUANTITIES

UANTITY	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 14 FT.
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME
2	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

6 EACH PEDESTRIAN SIGNAL HEAD

4 EACH PEDESTRIAN PUSH-BUTTON

4 EACH SIGNAL POST

TS# 7015 NORTH CHICAGO

												NURTH	CHICAGO
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE 131 (GREEN BAY RD) AT IL RTE 137 (BUCKLEY RD) SCHEDULE OF QUANTITIES, CABLE PLAN				F.A. RTF	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	112-002 Sheets NE Lake Co\07015_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS						2012-004 I	LAKE	97 56
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND PHASE DESIGNATION DIAGRAM				CONTRACT	T NO. 60T42		
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI		



ILL. RTE. 43

2



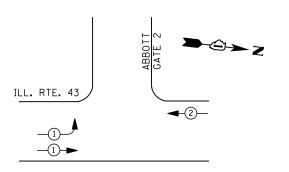
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

LEGEND

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

	RIGHT	TURN	OVERLAP	PHASE	DESIGN	ATION	
OVER	_AP	PERM:	ISSIVE	PROTE	CTED	DI	SPLAY
LETTE	:R	PHA	SE	PHA:	SE	F	PHASE
С	=	6	+	4		-	6



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	<u> </u>	-

1. D. O. 1.										
TRAFFIC SIGNAL INSTALLATION										
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	NO. LAMPS WATTAGE % OPERATIONS								
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	14	1 35	17	0.50	119					
(YELLOW)	14	1 35	25	0.25	88					
(GREEN)	14	1 35	15	0.25	53					
ARROW	4	1 35	12	0.10	5					
PED. SIGNAL	i	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 =	365					

ENERGY COSTS-

BILLED TO: CITY OF NORTH CHICAGO 1850 LEWIS AVE

NORTH CHICAGO, IL 60064

ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE 847-816-5239

COMMONWEALTH EDISON

NO. 6 -GREEN 8 ∀> O < 20 5 ILL. RTE. 43 TRACER CABLE --TRACER CABLE INTERCONNECT TO ABBOTT GATE 1 INTERCONNECT TO ILL. RTE. 137 RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D **CABLE PLAN**

SCHEDULE OF QUANTITIES

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

TS# 6820 NORTH CHICAGO

COUNTY TOTAL SHEET NO.

LAKE 97 57

CONTRACT NO. 60142 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW IL ROUTE 43 (WAUKEGAN RD.) AT ABBOTT LABS GATE 2
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\06820_CAB_LAKE.dg DRAWN JDH REVISED 2012-004 I **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 5/16/2012 DATE



FLASHER LED

ENERGY COSTS-

ENERGY SUPPLY -

TOTAL =

BILLED TO: CITY OF NORTH CHICAGO

847-816-5239

CONTACT TERRI BLECK

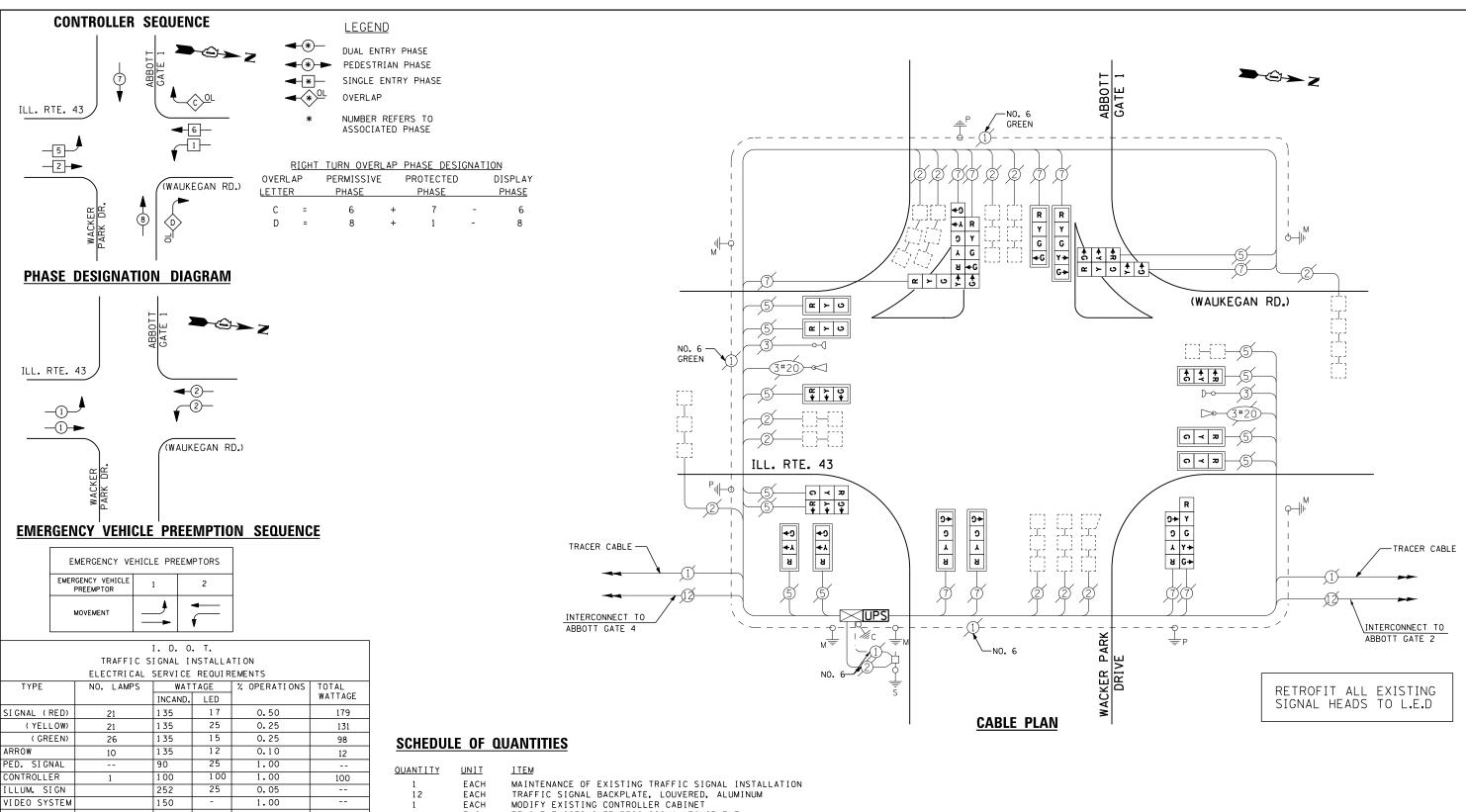
PHONE

1850 LEWIS AVE

NORTH CHICAGO, IL 60064

COMMONWEALTH EDISON

520



QUANTITY	<u>UNIT</u>	<u>ltem</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
8	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
3	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 3-FACE, 2-5 SECTION, 1-4 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.

12 EACH TRAFFIC SIGNAL BACKPLATE

TS# 6815 NORTH CHICAGO

																	000
FILE	E NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 43 (WAUKE	EGAN	RD.) AT	ABBOT	T LABS (GATE 1/WA	ACKER PARK DR.	F.A. RTF	SECTION	COUNTY	TOTAL SHEE
N:\Pi	Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\06815_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUAN								2012-004 I	LAKE	97 58
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	T NO. 60T42					
		PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO.	0.	OF	SHEETS	S STA.		TO STA.		ILLINOIS FED. A		



ILL. RTE. 43



DUAL ENTRY PHASE PEDESTRIAN PHASE

LEGEND

SINGLE ENTRY PHASE

OVERLAP

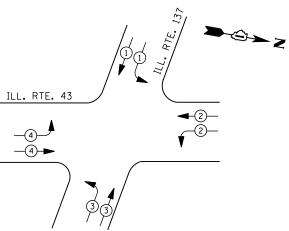
NUMBER REFERS TO

ASSOCIATED PHASE

RIGHT	TURN	OVERI AP	PHASE	DESIGNATION
1110111	10111	OVENER	IIIAJL	DESTONATION

OVERLA	·P	PERMISSIVE	F	PROTECTED		DISPLAY
LETTER	TTER PHASE PHASE					PHASE
Α	=	2	+	3	-	2
В	=	4	+	5	-	4
С	=	6	+	7	-	6
D	=	8	+	1	-	8

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	1	2	3	4			
MOVEMENT	/(7/				

	I. D.	O. T.
TRAFFIC	SIGNAL	INSTALLATION
FLECTRICAL	SERVIO	CE REQUIREMENTS

	LLLCTRICAL	LIVILIVIO			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	26	1 35	17	0.50	221
(YELLOW)	26	1 35	25	0.25	163
(GREEN)	26	1 35	15	0.25	98
ARROW	14	1 35	12	0.10	17
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					

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

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	1	2	3	4					
MOVEMENT	//	—	7/						

(WAUKEGAN RD.) ILL. RTE. 43 INTERCONNECT TO MARTIN LUTHER KING JR. DRIVE TRACER CABLE — INTERCONNECT TO
ABBOTT GATE 2 TRACER CABLE COAXIAL NO. 6-TRACER CABLE **CABLE PLAN** UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

INTERCONNECT TO ABBOTT GATE 3

SCHEDULE OF QUANTITIES

<u>QUANTITY</u> <u>UN I T</u> <u>ITEM</u>

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

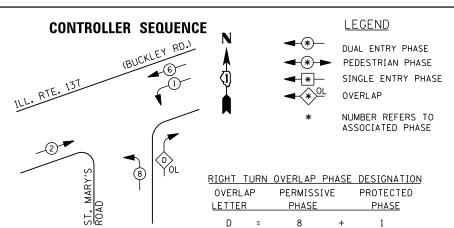
EACH

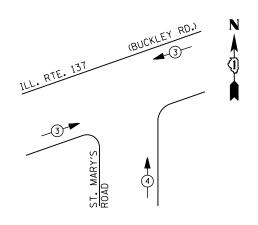
EACH

TS# 6800 NORTH CHICAGO

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ IL RTE 43 (WAUKEGAN RD) AT IL RTE 137 (BUCKLEY RD)
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE COUNTY SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet File s 12-002 Sheets NE Lake Co\06800_CAB_LAKE.do DRAWN JDH REVISED LAKE 97 59 2012-004 I **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED CONTRACT NO. 60T42 SCALE: N.T.S. SHEET NO. OF SHEETS STA. REVISED PLOT DATE = 5/16/2012 DATE







EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PREE	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)	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	1	150	-	1.00	150					
FLASHER LED										
				TOTAL =	482					

ENERGY COSTS-

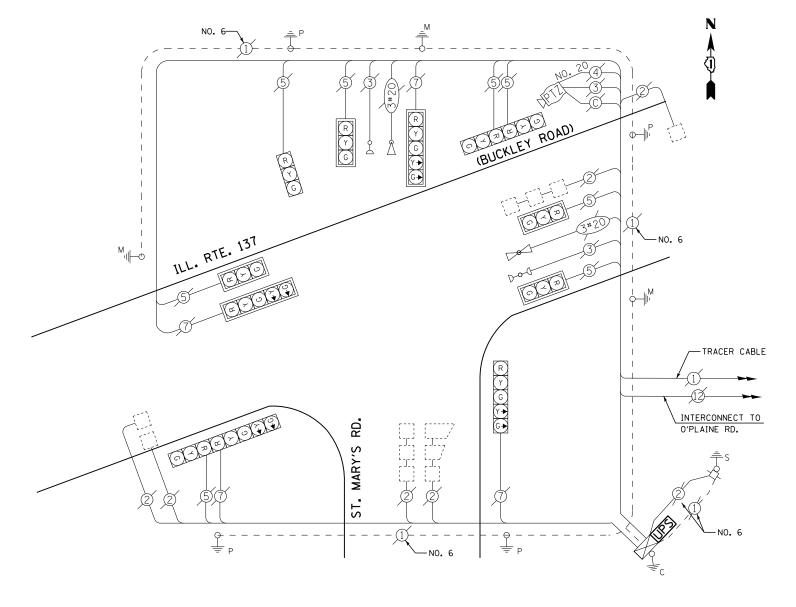
BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239

COMMONWEALTH EDISON



CABLE PLAN

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u>

EACH

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

> TS# 7110 UNICORPORATED

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL RTE	E 137 (BU	CKLEY RE	D) AT ST I	//ARY'S RD	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\07110_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		IVIE.	2012-004 I	LAKE	97	60				
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRAC	T NO. f	60T42				
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





ILL. RTE. 120

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

LEGEND

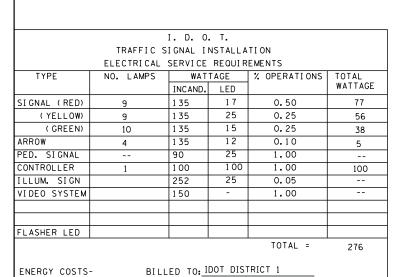
NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

_5 **-2**

ENERGY COSTS-

ENERGY SUPPLY -



CONTACT TERRI BLECK

847-816-5239

PHONE

201 WEST CENTER COURT

COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096

SCHEDULE OF QUANTITIES

2 ≻ ∪

2 ≻ ∪

ILL. RTE. 120

|ت| ≺ | يم |

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

NO. 6 GREEN

CABLE PLAN

NO. 6 — GREEN

↑ ↑ C ≺ R

↑ ↑ 0 ≺ 2

TS# 21969 WARREN ROAD DISTRICT

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

COUNTY TOTAL SHEET NO.

LAKE 97 61 FILE NAME = USER NAME = \$USER\$ DESIGNED REVISED DW IL RTE 120 AT MILL ROAD SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM SECTION STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\21969_CAB_LAKE.dgr DRAWN JDH REVISED 2012-004 I **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T42 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. PLOT DATE = 5/16/2012 DATE REVISED

NO. 6 -GREEN





5

-2

OL A

47 IL RTE 43

LEGEND DUAL ENTRY PHASE

PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO

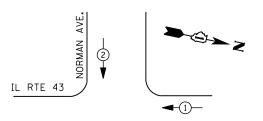
ASSOCIATED PHASE

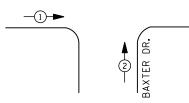
RIGHT	THRN	OVERI AP	PHASE	DESIGNATION
1110111	101111	OVENLAI	IIIAJL	DESTONATION

		1110111	101111	I IIIIOL DE	010.17.11	10.,			
OVERLAP			PERMISSIVE		PROTECTE	D	DISPLAY		
LETTER			PHASE	PHASE			PHASE		
	Α	=	2	+	3	-	2		
	С	=	6	+	7	-	6		

PHASE DESIGNATION DIAGRAM

38





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRI	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	-	1

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

	ELECTRICAL	SERVICE	REGULA	EMENIS	
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	24	1 35	12	0.10	29
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	-
FLASHER LED					
	·			TOTAL =	389

ENERGY COSTS-

BILLED TO: CITY OF WAUKEGAN

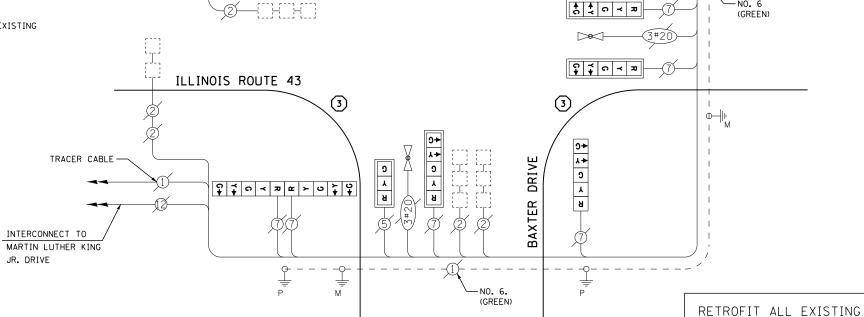
100 N. MARTIN LUTHER KING JR. AVE WAUKEGAN, IL 60085

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.





NO. 6-(GREEN)

~ > ∪ ↑ ↑

DRIVE

\$ \$ G < R & > O \$ \$

R Y G ← Y ← G

R Y G

CABLE PLAN

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.
6	EACH	RELOCATE EXISTING SIGNAL HEAD
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, MAST ARM MOUNTED, RETROFIT
6	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED RETROFIT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

4 EACH SIGNAL POST

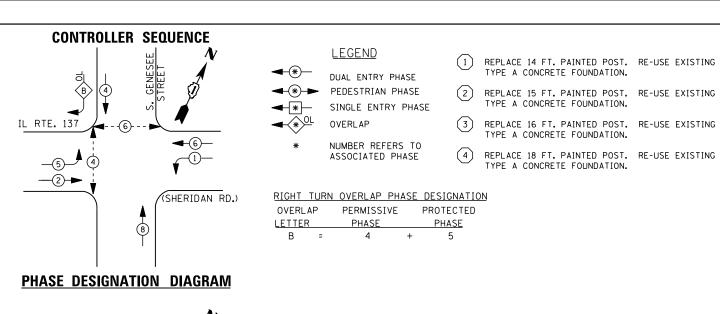
TS# 21695 WAUKEGAN

SIGNAL HEADS TO L.E.D

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

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 43 (WAUKEGAN RD) AT BAXTER DR /NORMAN DR SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		F.A.	SECTION	COUNTY	TOTAL	SHEE 1		
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\21695_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS				2012-004 I	LAKE	97	62		
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	NO. 6	JT42		
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEET	S STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





IL RTE. 137 **-**3**-**► (SHERIDAN RD.)

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	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: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE WAUKEGAN, IL 60085

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
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
5	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

NO. 6-ST GENESEE Š (SHERIDAN RD.) ILL. RTE. 137 1 ENT LOT **PARKING CABLE PLAN**

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

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.

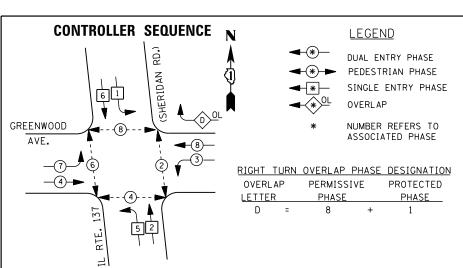
EACH PEDESTRIAN SIGNAL HEAD

3 EACH PEDESTRIAN PUSH-BUTTON 3 EACH SIGNAL POST

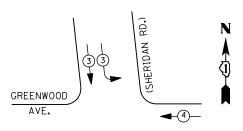
> TS# 15131 WAUKEGAN

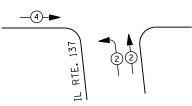
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 137 (SHERIDAN RD) AT S. GENESEE ST	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	.12-002 Sheets NE Lake Co\15131_CAB_LAKE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEI	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,112.	2012-004 I	LAKE	97	63
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	T NO. 6	OT42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI			





- 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.





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE 2 3 4									
MOVEMENT			—						

	Ι.	D.	0.	T.	
TRAFFIC	SIG	NAL	ΙN	STALL	ATION
ELECTRICAL	. 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	12	1 35	12	0.10	14			
PED. SIGNAL	8	90	25	1.00	200			
CONTROLLER	1	100	1 00	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								

ENERGY COSTS-

BILLED TO: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE

TOTAL =

WAUKEGAN, IL 60085 ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON

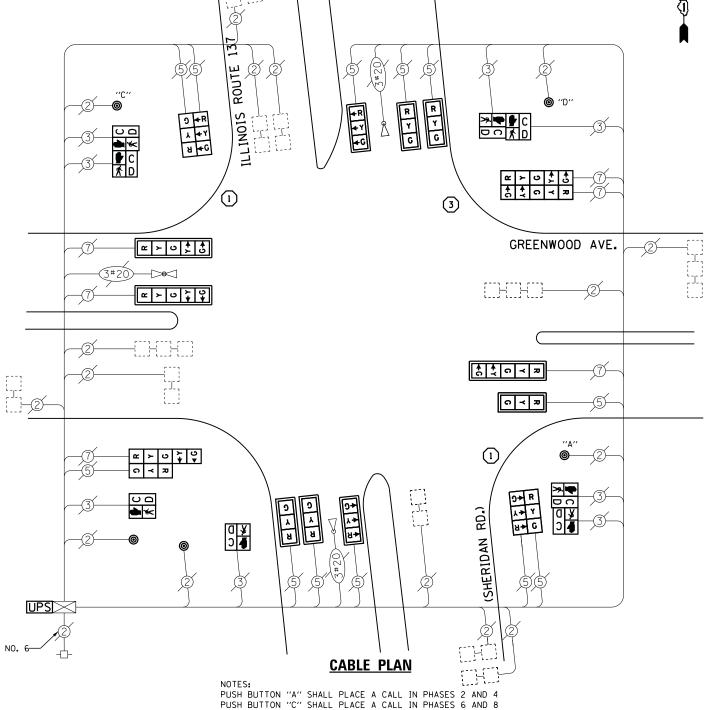
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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.

SIGNAL HEAD, 3 - SECTION SIGNAL HEAD, 5 - SECTION EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON 10 EACH TRAFFIC SIGNAL BACKPLATE 3 FACH SIGNAL 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.
1	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT.
7	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD. LED. 1-FACE. 5-SECTION. MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	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
3	EACH	PEDESTRIAN SIGNAL HEAD, LED. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



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

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

TS# 15060 WAUKEGAN

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12004\DesignCAD\Sheet File s 12-002 Sheets NE Lake Co\15060_CAB_LAKE.do DRAWN JDH REVISED CHECKED KMM REVISED REVISED PLOT DATE = 5/16/2012 DATE

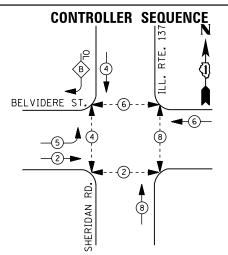
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE: N.T.S.

COUNTY TOTAL SHEET NO.

LAKE 97 64 IL RTE. 137 (SHERIDAN RD.) AT GREENWOOD AVENUE SECTION COUNTY SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 2012-004 I CONTRACT NO. 60T42 SHEET NO. OF SHEETS STA.





LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE

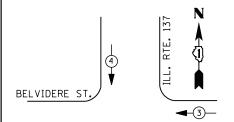
SINGLE ENTRY PHASE

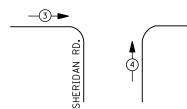
OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED PHASE LETTER PHASE

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

1. D. O. 1.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	13	1 35	1 7	0.50	111					
(YELLOW)	13	1 35	25	0.25	81					
(GREEN)	13	1 35	15	0.25	49					
ARROW	8	1 35	12	0.10	10					
PED. SIGNAL	8	90	25	1.00	200					
CONTROLLER	1	1 00	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM	1	150	ı	1.00	150					
FLASHER LED										
				TOTAL =	701					

BILLED TO: CITY OF WAUKEGAN ENERGY COSTS-

ENERGY SUPPLY -

100 N. MARTIN LUTHER KING JR. AVE WAUKEGAN, IL 60085

CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON

SCHEDUL	.E OF 0	NUANTITIES
<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
10	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	DRILL EXISTING HANDHOLE
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, GROUND MOUNTED
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

2" UNDERGROUND CONDUIT, — GALVANIZED STEEL

TRACER CABLE

INTERCONNECT TO GENESEE ST.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

0 ¥ ⊃ **4** ≫ **₹**

INTERCONNECT TO WASHINGTON ST.

RTE.

υ <u>α</u>

0 ¥ ∪ □ 3 **4 •** ≪

BELVIDERE RD.

NO. 6-

- TRACER CABLE

-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.

EACH PEDESTRIAN SIGNAL HEAD 5 EACH PEDESTRIAN PUSH-BUTTON

SHERIDAN

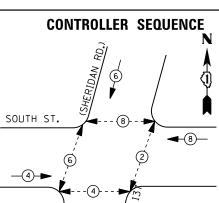
CABLE PLAN

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

TS# 15035 WAUKEGAN

									" "	TOIL	OAIN	١.
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (SHERIDAN RD.) AT BELVIDERE ROAD	F.A.	SECTION	COUNTY	TOTAL	AL SHE	EET
N:\Projects3\12004\DesignCAD\Sheet Files	\12-002 Sheets NE Lake Co\15035_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE	97	6	5 <u>.</u> 55
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO.	60T/	42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	$\overline{}$	ILLINOIS FED.				





<u>LEGEND</u>

DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OL OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

I. D. O. T.										
	TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	1 7	0.50	102					
(YELLOW)	12	1 35	25	0.25	75					
(GREEN)	12	1 35	15	0.25	45					
ARROW	0	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	ı	1.00	1					
FLASHER LED										

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE

TOTAL =

522

WAUKEGAN, IL 60085

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

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
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	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

RD.)

A ()

≯. €

≯ •

DEED - 5

(SHERIDAN

RYO

⊃ <u>0</u>

RTE. 137

NO. 6-

CABLE PLAN

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

ILL.

SOUTH STREET

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

TS# 15030 WAUKEGAN

										11 (1)	ONLO	/AIN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 137 (SHERIDAN RD.) AT SOUTH STREET	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\15030_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS		SCHEDULE OF QUANTITIES, CABLE PLAN	1	2012-004 I	I AKF	97	66
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION		AND PHASE DESIGNATION DIAGRAM			CONTRACT	T NO. (60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.	$\overline{}$	ILLINOIS FED.			



CONTROLLER SEQUENCE

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

LEGEND

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

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

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.

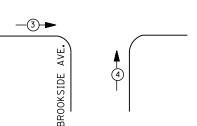
PHASE DESIGNATION DIAGRAM



IL RTE 131 (GREEN BAY RD.)

IL RTE 131 (GREEN BAY RD.)

—②→



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)	8	1 35	17	0.50	68					
(YELLOW)	8	1 35	25	0.25	50					
(GREEN)	8	1 35	15	0.25	30					
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										

USER NAME = \$USER\$

PLOT DATE = 5/16/2012

BILLED TO: CITY OF WAUKEGAN ENERGY COSTS-

N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\15022_CAB_LAKE.dg

100 N. MARTIN LUTHER KING JR. AVE

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

TOTAL =

WAUKEGAN, IL 60085

CONTACT TERRI BLECK ENERGY SUPPLY -

FILE NAME =

PHONE 847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

REVISED

REVISED

REVISED

REVISED

QUANTITY	<u>UN I T</u>	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.
3	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
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
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.

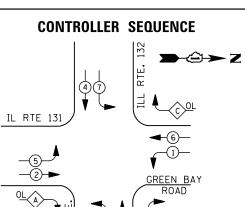
6	EACH	SIGNAL HEAD. 3 - SECTION
2	EACH	SIGNAL HEAD, 5 - SECTION
2	EACH	PEDESTRIAN SIGNAL HEAD
2	EACH	PEDESTRIAN PUSH-BUTTON
4	EACH	TRAFFIC SIGNAL BACKPLATE
2	EACH	SIGNAL POST

TS# 15022 WAUKEGAN

CTATE OF ILLINOIS						OOKSIDE AVE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE						2012-004 I	LAKE	97	67	
DEPARTMENT OF TRANSPORTATION			IGENCI		NEEIVIF I IU				CONTRACT	NO. 6	OT42
	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

→�→ Z ILLINOIS ROUTE 131 1 <u>~</u> ≻ ∪ ` ↓ ↓ ດ ≺ ¤ GREEN BAY RD. -TRACER CABLE TRACER CABLE INTERCONNECT TO ILL. RTE. 132 (GRAND AVE.) -NO. 6 **CABLE PLAN**





LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

(1)	REPLACE 14 FT. PAINTED POST.	RE-USE EXISTING	
\smile	TYPE A CONCRETE FOUNDATION.		

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

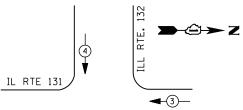
REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

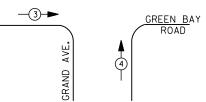
REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP PERMISSIVE PROTECTED					DISPLAY		
LETTER	₹	PHASE		PHASE		PHASE	
Α	=	2	+	3	-	2	
С	=	6	+	7	-	6	
D	=	8	+	1	-	8	

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	16	1 35	1 7	0.50	136
(YELLOW)	16	1 35	25	0.25	100
(GREEN)	16	1 35	15	0.25	60
ARROW	28	1 35	12	0.10	34
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	1 00	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM	1	150	150	1.00	150
FLASHER LED					

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

TOTAL =

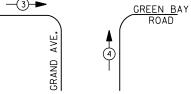
580

SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

OVERL	AP	PERMISSIVE		PROTECTED		DISPLAY
ETTER	7	PHASE		PHASE		PHASE
Α	=	2	+	3	-	2
С	=	6	+	7	-	6
D	=	8	+	1	-	8



EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	1
	I. D.	O. T.

SCHEDULE OF QUANTITIES

<u>JANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	RELOCATE EXISTING SIGNAL HEAD
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TRACER CABLE -

INTERCONNECT TO

BROOKSIDE 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.

2 EACH SIGNAL POST

-NO. 6

(3)

GREEN BAY RD.

- NO.

TS# 15020 WAUKEGAN

→②→ Z

-TRACER CABLE

INTERCONNECT TO

CRESCENT AVE.

FIL	E NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 131 (GREEN BAY RD) A			F.A. RTF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\	Projects3\12004\DesignCAD\Sheet Files	.12-002 Sheets NE Lake Co\15020_CAB_LAKE.dg		JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012-004 I	LAKE	97	68			
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE	PREEMITION SE				CONTRACT	NO. 6	JT42
		PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS	S STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

Ми⊩ф

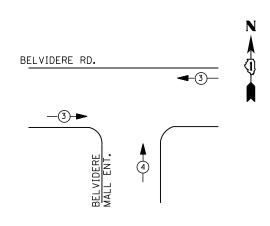
ILL ROUTE 131

CABLE PLAN



PROPOSED CONTROLLER SEQUENCE

PHASE DESIGNATION DIAGRAMS



EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

		I. D. O.	. T.								
	TRAFFIC S	I GNAL I	NSTALLA	TION							
	ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	% OPERATIONS	TOTAL								
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	10	1 35	1 7	0.50	85						
(YELLOW)	10	1 35	25	0.25	63						
(GREEN)	10	1 35	15	0.25	38						
ARROW	4	1 35	12	0.10	5						
PED. SIGNAL	0	90	25	1.00							
CONTROLLER	1	100	100	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	ı	1.00							
FLASHER LED											
				TOTAL =	290						

ENERGY COSTS- BILLED TO: <u>CITY OF WAUKEGAN</u>

100 N. MARTIN LUTHER KING JR. AVE
WAUKEGAN, IL 60085

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

<u>LEGEND</u>

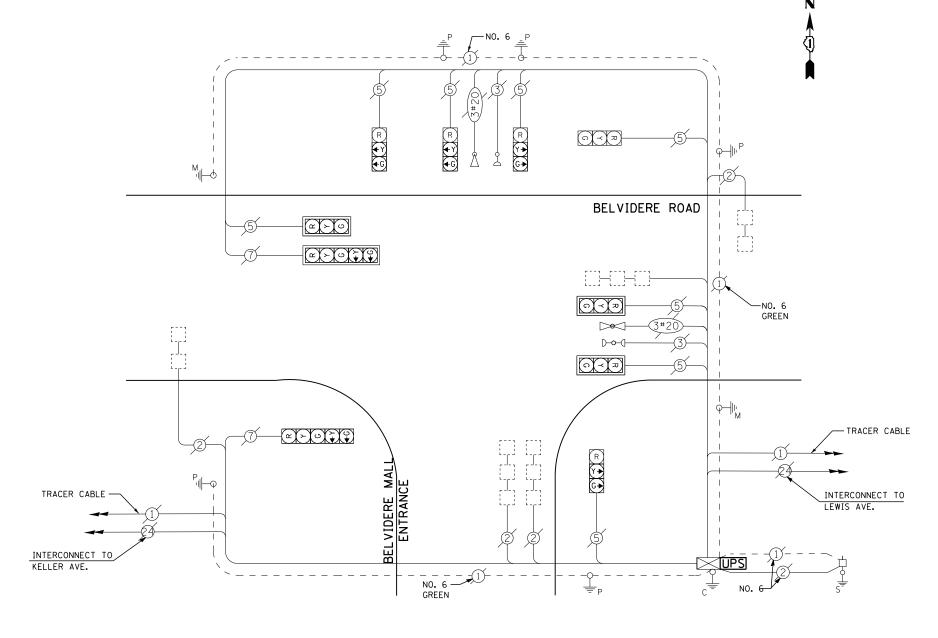
DUAL ENTRY PHASE

PEDESTRIAN PHASE

* SINGLE ENTRY PHASE

* OL OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE



CABLE PLAN

SCHEDULE OF QUANTITIES

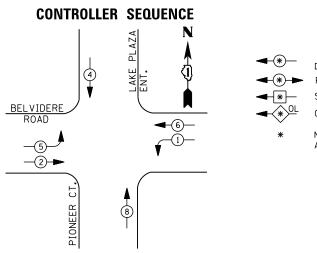
OUANTITY UNIT ITEM

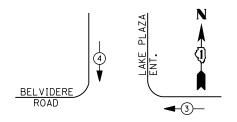
1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

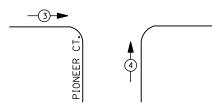
TS# 14974 WAUKEGAN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			BELVIDERE ROAD AT BELVIDERE MALL EAST ENTRANCE	F.A. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\14974_CAB_LAKE.dgi	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE	97 69
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEH	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	↓ ↑

		I. D. O.	. т.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUI R	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	12	1 35	1 7	0.50	102
(YELLOW)	12	1 35	25	0.25	75
(GREEN)	12	1 35	15	0.25	45
ARROW	6	1 35	12	0.10	7
PED. SIGNAL	1	90	25	1.00	
CONTROLLER	1	1 00	100	1.00	100
ILLUM. SIGN		252	25	0.05	-
VIDEO SYSTEM	1	150	ı	1.00	1
FLASHER LED					
				TOTAL =	329

ENERGY COSTS-

BILLED TO: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE

WAUKEGAN, IL 60085

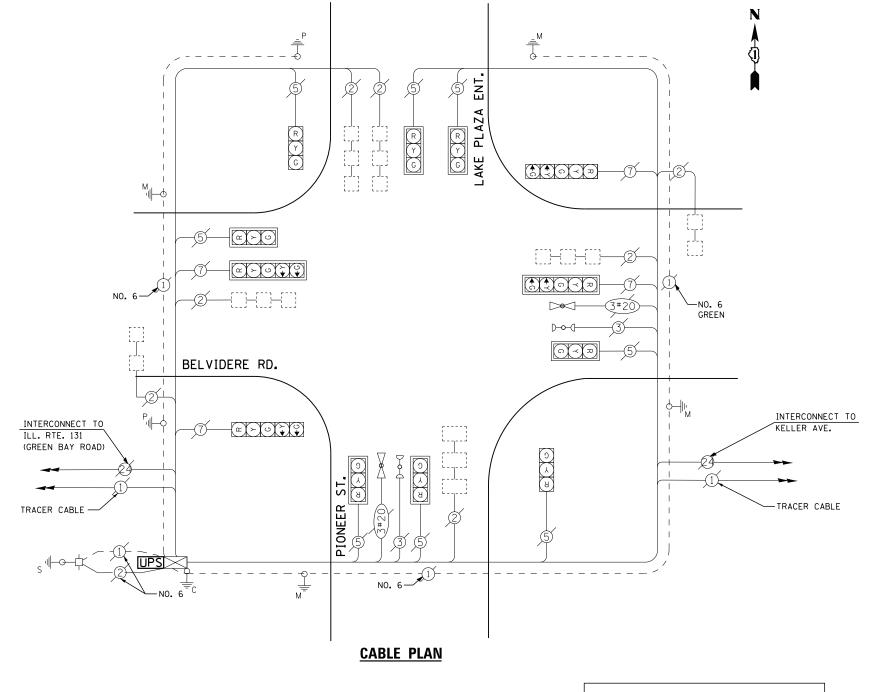
ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE



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

SCHEDULE OF QUANTITIES

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

EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

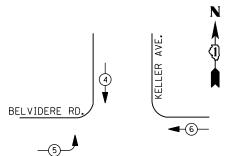
MODIFY EXISTING CONTROLLER CABINET EACH EACH

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 14972 WAUKEGAN

									1171011207111
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		BELVIDERE RD. AT LAKE PLAZA /PIONEER ST	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\14972_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE 97 70
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	





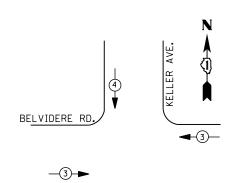
LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

2



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS							
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)	10	1 35	1 7	0.50	85				
(YELLOW)	10	1 35	25	0.25	63				
(GREEN)	10	1 35	15	0.25	38				
ARROW	4	1 35	12	0.10	5				
PED. SIGNAL	0	90	25	1.00					
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ı	1.00					
FLASHER LED									
				TOTAL =	290				

ENERGY COSTS-

BILLED TO: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE

ENERGY SUPPLY -

FILE NAME =

CONTACT TERRI BLECK

PLOT DATE = 5/16/2012

PHONE

847-816-5239 COMMONWEALTH EDISON

CHECKED

DATE

WAUKEGAN, IL 60085

USER NAME = \$USER\$ DESIGNED REVISED DW N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\14970_CAB_LAKE.dg DRAWN JDH REVISED

REVISED

REVISED

KMM

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

М

NO. 6-

BELVIDERE RD.

TRACER CABLE NO. 14-

INTERCONNECT TO PIONEER COURT/ LAKE PLAZA ENT.

> BELVIDERE ROAD AT KELLER AVENUE
> SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM SECTION 2012-004 I AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CONTRACT NO. 60T42 SCALE: N.T.S. SHEET NO. OF SHEETS STA.

SCHEDULE OF QUANTITIES

QUANTITY <u>UN I T</u>

(E) (\$\frac{1}{2}\)

EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET

KELLER

TRACER CABLE NO. 14

INTERCONNECT TO BELVIDERE MALL ENT.

TS# 14970 WAUKEGAN

COUNTY TOTAL SHEET NO.

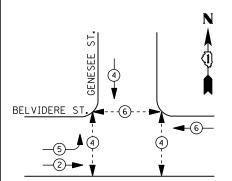
LAKE 97 71

COUNTY

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

CABLE PLAN



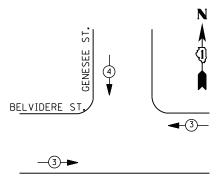


LEGEND

DUAL ENTRY PHASE * PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



EMERGI

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4				
MOVEMENT	—	\				

1. 0. 1.									
TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WATTAGE 2		% 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	6	90	25	1.00	150				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	477				

BILLED TO: CITY OF WAUKEGAN ENERGY COSTS-

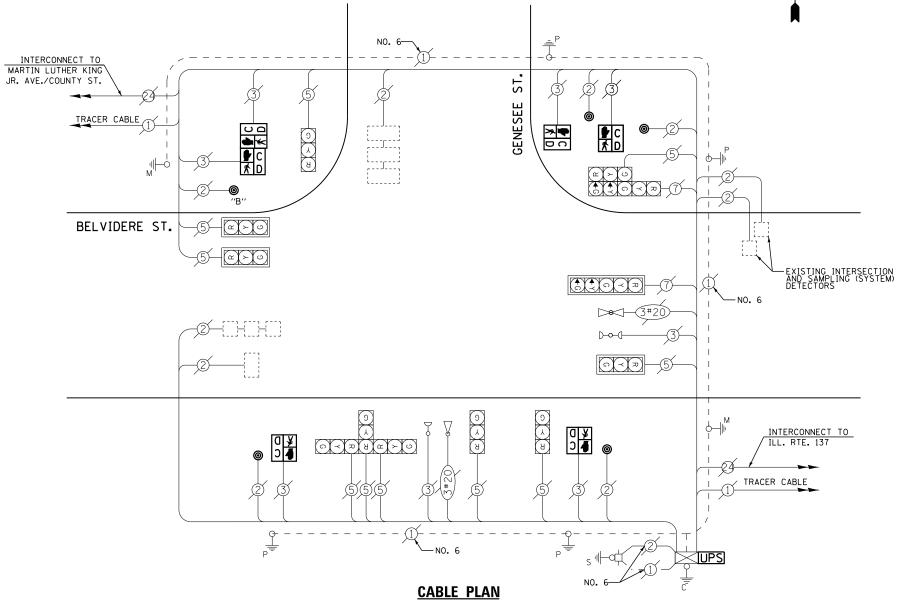
100 N. MARTIN LUTHER KING JR. AVE

WAUKEGAN, IL 60085

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239 COMMONWEALTH EDISON

_3→		Ø—[]	
EMERGENCY VEHICLE PREMERGENCY VEHICLE PREEMPTOR 3 MOVEMENT	I SEQUENCE		555 3 #



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

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

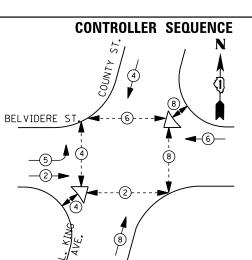
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

6 EACH PEDESTRIAN SIGNAL HEAD 5 EACH PEDESTRIAN PUSH-BUTTON

> TS# 14965 WAUKEGAN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	07475 05 11111010	BELVIDERE ROAD AT GENESEE STREET	F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\14965_CAB_LAKE.dg		JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE 97 72
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT





<u>LEGEND</u>

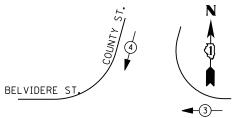
DUAL ENTRY PHASE

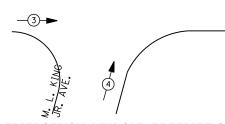
PEDESTRIAN PHASE

SINGLE ENTRY PHASE

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.	0.	T.		
TRAFFIC	SIG	NAL	ΙN	STALL	ATION	
ELECTRI CAL	. SEI	RVI	CE	REQUI	REMENT	īS

ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND. LED			WATTAGE					
SIGNAL (RED)	14	1 35	17	0.50	119					
(YELLOW)	14	1 35	25	0.25	88					
(GREEN)	14	1 35	15	0.25	53					
ARROW	4	1 35	12	0.10	5					
PED. SIGNAL	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	I					
FLASHER LED										

ENERGY COSTS-

BILLED TO: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE

TOTAL =

WAUKEGAN, IL 60085

ENERGY SUPPLY -

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

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	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
8	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

- TRACER CABLE TRACER CABLE -⊃ Q **♣**≰ INTERCONNECT TO GENESEE ST. INTERCONNECT TO McCALISTER AVENUE/ LIBERTY ST. BELVIDERE RD. **≫ ●** ນ <u>ດ</u> **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

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 8 EACH PEDESTRIAN PUSH-BUTTON

> TS# 14960 Waukegan

															***		<u> </u>	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		BEVIDERE ROAD AT MARTIN LUTHER KING JR. AVENUE /COUNTY ST. SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		UE /COUNTY ST.	F.A.	SECTION	COUNTY	TOTAL	SHEET	1				
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\14960_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS			1,1,2	2012-004 I	LAKE	97	73	1					
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				QUENCE			CONTRAC	T NO. 6	60T42	1		
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHE	ETS	STA.	TO STA.		ILLINOIS FED. AI				





LIBERTY ST.

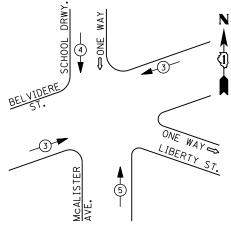
LEGEND

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

(8)



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	5							
MOVEMENT	+		†						

1		I. D. O			
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% 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	4	1 35	12	0.10	5
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					
				TOTAL =	583

BILLED TO: CITY OF WAUKEGAN ENERGY COSTS-100 N. MARTIN LUTHER KING JR. AVE

ENERGY SUPPLY -

WAUKEGAN, IL 60085

CONTACT TERRI BLECK 847-816-5239 PHONE

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> FOOT UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH DRILL EXISTING HANDHOLE PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH EACH MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED FACH EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

EXISTING INTERSECTION

DETECTORS

INTERCONNECT TO

JACKSON ST

TRACER CABLE -

AND SAMPLING (SYSTEM)

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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."

LIBERTY STREET ONE WAY SIME

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 7 EACH PEDESTRIAN PUSH-BUTTON

RYG (R) > (G)

O O

UPS

MCALISTER

CABLE PLAN

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

2" UNDERGROUND CONDUIT, GALVANIZED STEEL

TS# 14955 WAUKEGAN

TRACER CABLE

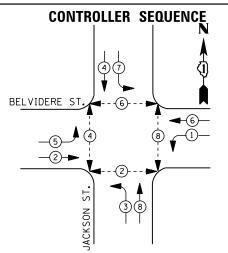
INTERCONNECT TO M.L.K AVE./COUNTY ST.

DETECTORS

-EXISTING INTERSECTION AND SAMPLING (SYSTEM)

														· · · ·	AUNLUAIN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			BELVIDERE STI	REET AT	McALISTEI	R AVENUE	/LIBERTY STREET	F.A. RTF	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\14955_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			2012-004 I	LAKE	97 74				
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION				2012 001 1		NO. 60T42				
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AI		





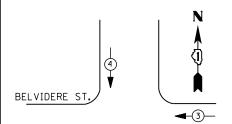
DUAL ENTRY PHASE PEDESTRIAN PHASE

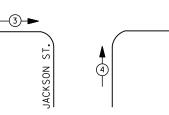
SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

	EMERGENCY VI	EHICLE PRE	EMPTORS
EM	MERGENCY 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)	16	1 35	1 7	0.50	136								
(YELLOW)	16	1 35	25	0.25	100								
(GREEN)	16	1 35	15	0.25	60								
ARROW	16	1 35	12	0.10	19								
PED. SIGNAL	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													

BILLED TO: CITY OF WAUKEGAN ENERGY COSTS-

100 N. MARTIN LUTHER KING JR. AVE

TOTAL =

WAUKEGAN, IL 60085

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE

847-816-5239

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	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

BELVIDERE ST.

NO. 6-

TRACER CABLE -

INTERCONNECT TO

GLEN ROCK AVE.

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

№ C

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

CABLE PLAN

EACH PEDESTRIAN PUSH-BUTTON

TS# 14950 WAUKEGAN

TRACER CABLE

INTERCONNECT TO

McCALISTER AVE./

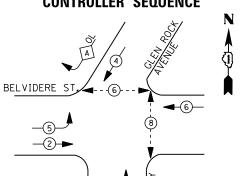
LIBERTY ST.

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

			_							WAUKEGAN
FILE	NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		BELVIDERE ROAD AT JACKSON STREET	F.A. RTF	SECTION	COUNTY TOTAL SHEE
N:\Pr	rojects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\14950_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE 97 75
		PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60T42
		PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	







DUAL ENTRY PHASE PEDESTRIAN PHASE

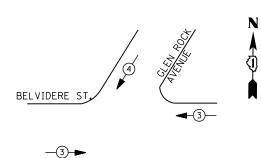
SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

PERMISSIVE PROTECTED OVERLAP LETTER PHASE PHASE

PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEH	ICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	

		I. D. O	. т.								
TRAFFIC SIGNAL INSTALLATION											
	ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	14	1 35	17	0.50	119						
(YELLOW)	14	1 35	25	0.25	88						
(GREEN)	14	1 35	15	0.25	53						
ARROW	8	1 35	12	0.10	10						
PED. SIGNAL	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: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE

TOTAL =

WAUKEGAN, IL 60085 ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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
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

TRACER CABLE

BELVIDERE RD.

INTERCONNECT TO

LEWIS AVE.

PRIVATE DRWY.

`_N0. 6

CABLE PLAN

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

PC 1x D → C

TRACER CABLE

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

INTERCONNECT TO

JACKSON ST.

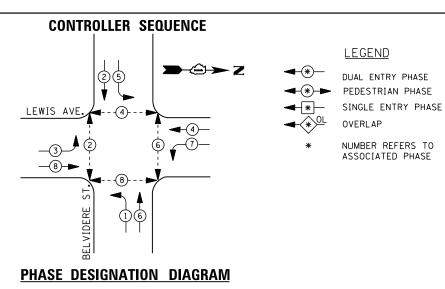
PEDESTRAIN SIGNAL HEAD FΔCH

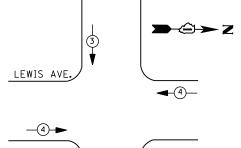
PEDESTRIAN PUSH-BUTTON EACH

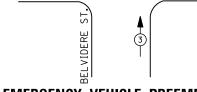
TS# 14945 WAUKEGAN

									WAU	INLUAIN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		BELVIDERE ROAD AT GLEN ROCK AVENUE	F.A. SEC	CTION	COUNTY TO	OTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	\12-002 Sheets NE Lake Co\14945_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	.,,,,	2-004 I	LAKE 9	97 76
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO	10. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	i	ILLINOIS FED. AII		









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)	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											

BILLED TO: CITY OF WAUKEGAN ENERGY COSTS-

100 N. MARTIN LUTHER KING JR. AVE

TOTAL =

WAUKEGAN, IL 60085

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

BELVIDERE MALL ENT 2" UNDERGROUND CONDUIT, GALVANIZED STEEL -TRACER CABLE NO. 6 TRACER CABLE INTERCONNECT TO WASHINGTON ST. INTERCONNECT TO DUGDALE RD. LEWIS AVE. EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS (F) ELVIDERE -TRACER CABLE INTERCONNECT TO EXISTING INTERSECTION AND GLEN ROCK AVE. SAMPLING (SYSTEM) DETECTORS **CABLE PLAN**

TRACER CABLE

INTERCONNECT TO

EXISTING INTERSECTION AND

SAMPLING (SYSTEM) DETECTORS

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

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

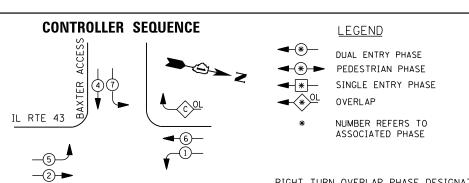
UPS SHALL BE INSTALLED ON A SEPARATE FOUNDATION DUE TO PHYSICAL CONSTRAINTS, OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED".

→②→ Z

TS# 14940 WAUKEGAN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				BELVIDERI	E ST AT I	LEWIS A	VENUE		F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\14940_CAB_LAKE.dg		JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUAN	TITIES, CA	BLE PLAN	I, PHASE	DESIGNATION			2012-004 I	LAKE	97	77
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EME	ERGENCY	VEHICLE I	PREEMPT	TION SEQUENC	CE			CONTRAC	T NO. f	60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.		TO STA.		ILLINOIS FED. AI	D PROJECT		



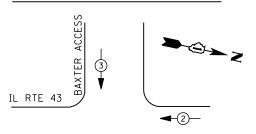


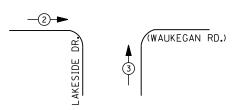
(WAUKEGAN RD.)

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVER	LAP	PERMISS	SIVE	PROTECTED
LETTE	ER	PHASE		PHASE
Α	=	2	+	3
С	=	6	+	7
П	_	Ω		1

PHASE DESIGNATION DIAGRAM

38





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	2	3
MOVEMENT	-	↓ ↑

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	1 7	0.50	136						
(YELLOW)	16	1 35	25	0.25	100						
(GREEN)	16	1 35	15	0.25	60						
ARROW	28	1 35	12	0.10	34						
PED. SIGNAL		90	25	1.00	-						
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05	-						
VIDEO SYSTEM		150	-	1.00	1						
FLASHER LED											
				TOTAL =	430						

ENERGY COSTS- BILLED TO: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE WAUKEGAN, IL 60085

ENERGY SUPPLY - CONTACT TERRI BLECK

PHONE 847-816-5239
COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

NO. 6-(GREEN)

~ ~ O * &

~ ~ ° ` °

-{:}}{:}

ILLINOIS ROUTE 43

ACCESS

BAXTER

4 4 G < Z

↑ ↑ 0 ≺ 2

9→ R 1→ Y 2→ G 3→ C 3→ C 4→ Y 3→ C 4→ D 3→ C

AKESIDE

(GREEN)

R Y G G + Y + G + G

CABLE PLAN

S B B C S C S

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

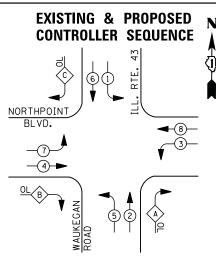
-NO. 6 (GREEN)

UPS Pro

TS# 14917 WAUKEGAN

									WA	NUNEG	AIN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 43 (WAUKEGAN RD) AT LAKESIDE DRIVE/BAXTER	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	\12-002 Sheets NE Lake Co\14917_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE	97	78
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	F NO. 6	50T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.			





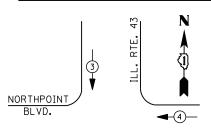
→* DUAL ENTRY PHASE PEDESTRIAN PHASE

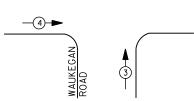
─ SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATIO	10
OVERI	_AP	PERMISS	IVE	PROTECTED	
LETTE	:R	PHASE		PHASE	
Α	=	2	+	3	
В	=	4	+	5	

PHASE DESIGNATION DIAGRAM





EXISTING & PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

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)	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	28	1 35	12	0.10	34				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	VIDEO SYSTEM 150 -				1				
FLASHER LED									

ENERGY COSTS-BILLED TO: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE WAUKEGAN, IL 60085

TOTAL =

411

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

CONTRACTOR SHALL RELOCATE EXISTING FIBER OPTIC SPLICE BOX TO A NEW CONTROLLER CABINET. CARE SHOULD BE TAKEN TO NOT DAMAGE EXISTING FIBER OPTIC CABLE, SPLICES OR TERMINATIONS. REPAIR OF ANY DAMAGED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

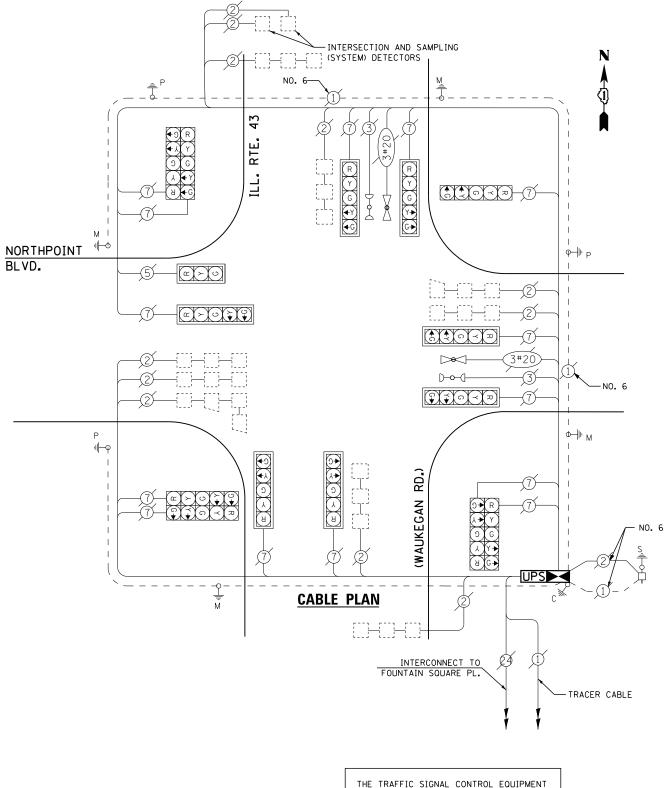
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

1 EACH CONTROLLER AND CABINET (COMPLETE)

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
1 1	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



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

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

TS# 14915 WAUKEGAN

COUNTY TOTAL SHEET NO.

LAKE 97 79 DESIGNED REVISED FILE NAME = USER NAME = \$USER\$ DW IL ROUTE 43 (WAUKEGAN RD) AT LAKEHURST NORTH DR /NORTHPOINT BLVD SECTION COUNTY STATE OF ILLINOIS N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\14915_CAB_LAKE.dg DRAWN JDH REVISED SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM 2012-004 I AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CHECKED KMM REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60T42 SCALE: N.T.S. SHEET NO. OF SHEETS STA. PLOT DATE = 5/16/2012 DATE REVISED



FOUNTAIN

SQUARE PL. -4)-

OL_B



DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

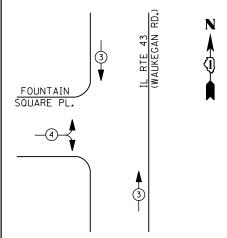
NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP PERMISSIVE PROTECTED PHASE **PHASE** 4 6

PHASE DESIGNATION DIAGRAM

52



EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRE	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	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	-	1.00					
FLASHER LED									

ENERGY COSTS-

FILE NAME =

BILLED TO: CITY OF WAUKEGAN

100 N. MARTIN LUTHER KING JR. AVE WAUKEGAN, IL 60085

TOTAL =

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE

847-816-5239 COMMONWEALTH EDISON

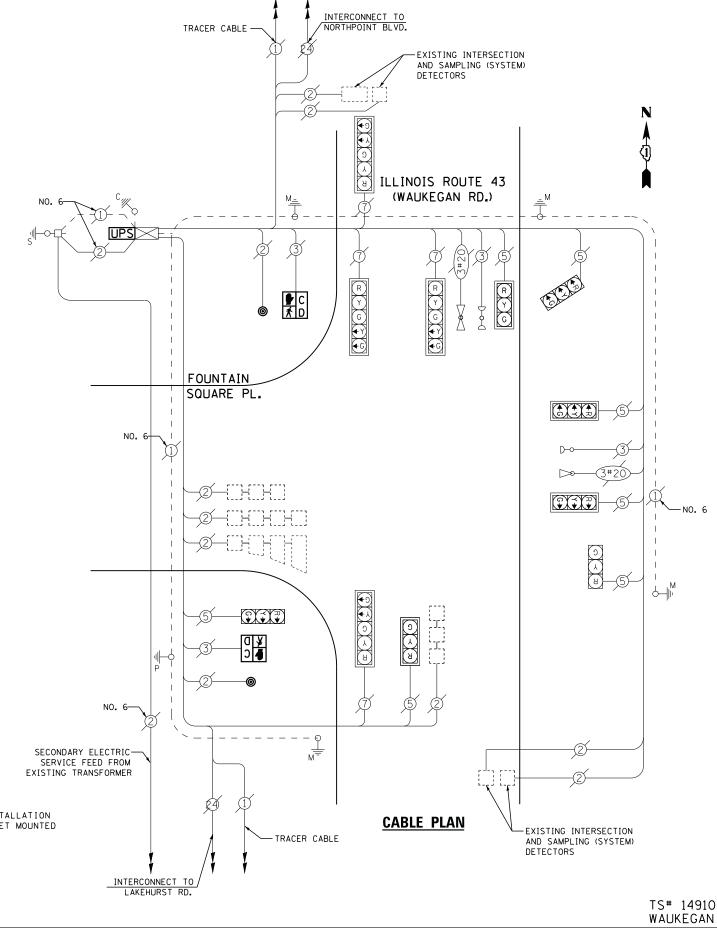
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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



STATE OF ILLINOIS

COUNTY TOTAL SHEET NO.

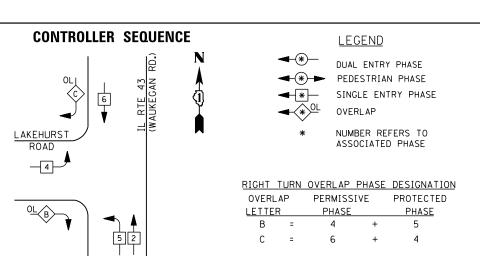
LAKE 97 80 IL ROUTE 43 (WAUKEGAN RD) AT FOUNTAIN SQUARE PL SECTION COUNTY SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM 2012-004 I AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CONTRACT NO. 60T42 SCALE: N.T.S. OF SHEETS STA. SHEET NO.

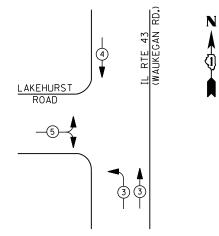
DEPARTMENT OF TRANSPORTATION

USER NAME = \$USER\$ N:\Projects3\12004\DesignCAD\Sheet File s 12-002 Sheets NE Lake Co\14910_CAB_LAKE.do

DESIGNED REVISED DW DRAWN JDH REVISED CHECKED KMM REVISED PLOT DATE = 5/16/2012 DATE REVISED







EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4	5			
MOVEMENT	1					

WAUKEGAN, IL 60085

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

REVISED

REVISED

REVISED

REVISED

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

FILE NAME =

847-816-5239 COMMONWEALTH EDISON

USER NAME = \$USER\$

PLOT DATE = 5/16/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\14905_CAB_LAKE.dge

SCHEDULE OF QUANTITIES

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

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

IL ROUTE 43 (WAUKEGAN RD) AT LAKEHURST RD (SOUTH DR)
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

EXISTING INTERSECTION

DETECTORS

TRACER CABLE

AND SAMPLING (SYSTEM)

CABLE PLAN

TS# 14905 WAUKEGAN COUNTY TOTAL SHEET SHEET NO.

LAKE 97 81 SECTION 2012-004 I CONTRACT NO. 60T42

ILLINOIS FED. AID PROJECT

INTERCONNECT TO PULASKI DR.

DEP/

STATE OF ILLINOIS ARTMENT OF TRANSPORTATION	

	EMERGENCY VEHICLE PREEMPTOR	3	4	5	
	MOVEMENT				
		I. D. O			
	TRAFFIC				
	ELECTRICAL				
TYPE	NO. LAMPS	_	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		90	25	1.00	
CONTROLLER	1	1 00	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTE	M	150	1	1.00	
FLASHER LED					
				TOTAL =	327
ENERGY COST	S- BIL	LED TO: <u>C</u>		NAUKEGAN ARTIN LUTHER KIN	IG JR. AVE

DETECTORS	•
NO. 6 NO. 6 ILLINOIS ROUTE 43 (WAUKEGAN RD.)	N 1 1 1 1 1 1 1 1 1 1
	5
LAKEHURST RD.	
NO. 6————————————————————————————————————	D-0
	3#20 NO. 6

INTERCONNECT TO FOUNTAIN SQUARE PL.

-EXISTING INTERSECTION AND SAMPLING (SYSTEM)

TRACER CABLE



IL RTE 131



DUAL ENTRY PHASE

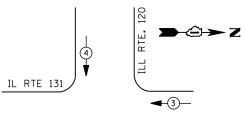
PEDESTRIAN PHASE SINGLE ENTRY PHASE

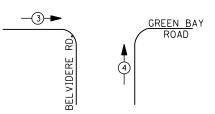
OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN OVERLAP	PHASE DESIGN	NATION
OVERLAP	PERMISSIVE	PROTECTED	DISPLA
ETTER .	PHASE	PHASE	PHASE

PHASE DESIGNATION DIAGRAM





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												
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL							
		INCAND.	LED		WATTAGE							
SIGNAL (RED)	14	1 35	1 7	0.50	119							
(YELLOW)	14	1 35	25	0.25	88							
(GREEN)	14	1 35	15	0.25	53							
ARROW	20	1 35	12	0.10	24							
PED. SIGNAL	4	90	25	1.00	100							
CONTROLLER	1	100	100	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM	1	150	150	1.00	150							
FLASHER LED												

ENERGY COSTS-

FILE NAME = N:\Projects3\12004\Design BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

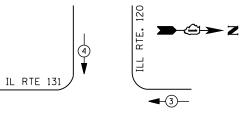
TOTAL =

634

CONTACT TERRI BLECK ENERGY SUPPLY -

847-816-5239

COMMONWEALTH EDISON



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

SCHEDULE	0F	QUANTITIES

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

TRACER CABLE

INTERCONNECT TO

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

GREEN BAY RD.

BELVIDERE RD.

CABLE PLAN

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

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

4 EACH PEDESTRIAN SIGNAL HEAD

120

ROUTE

ILL ROUTE 131

3 EACH PEDESTRIAN PUSH-BUTTON

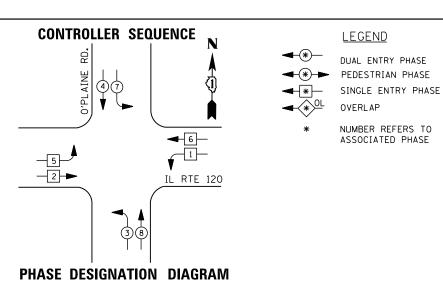
TS# 7820 Waukegan

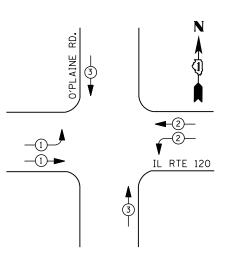
-TRACER CABLE

INTERCONNECT TO WASHINGTON ST.

		<u> </u>							W	AUKE	AN
	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 131 (GREEN BAY RD) AT IL ROUTE 120 (BELVIDERE RD)	F.A.	SECTION	COUNTY	TOTAL SHEETS	
signCAD\Sheet Files	12-002 Sheets NE Lake Co\07820_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11.12.	2012-004 I	LAKE	97	82
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012 00 1	CONTRAC	T NO. 6	50T42
	PLOT DATE = 5/16/2012	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	1	2	3							
MOVEMENT										

1. D. O. 1.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	16	1 35	1 7	0.50	136						
(YELLOW)	16	1 35	25	0.25	100						
(GREEN)	16	1 35	15	0.25	60						
ARROW	8	1 35	12	0.10	10						
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	1 00	100	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00	1						
FLASHER LED											
				TOTAL =	406						

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

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET EACH 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 EACH 12 EACH EACH

R R R Y G ←Y ←G R Y G ←Y ←G ILL. RTE. 120 _ œ ≻ ∪ œ ≻ ∪ O'PLAINE ROAD Y RETROFIT ALL EXISTING **CABLE PLAN** SIGNAL HEADS TO L.E.D.

SCHEDULE OF QUANTITIES

<u>UNIT</u>

EACH

QUANTITY

TS# 7010 WAUKEGAN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	27.77 25 11.111212					PLAINE ROA		F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\07010_CAB_LAKE.dg	_	JDH	REVISED -	STATE OF ILLINOIS	SCHE		ITITIES, CAI ERGENCY 1			IGNATION DIAGRAM Sequence		2012-004 I	LAKE	97 83
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION			ENGENCI		NECIVIF I IUN	SEGUENCE			CONTRAC	CT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	





IL RTE 43

LEGEND DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

	RIGHT	THRN O	/FRI AP	PHASE	DESIGNAT	LION
OVER		PERMISS		PROTE		DISPLAY
ETT	ER	PHASE		PHA	SE	PHASE
Α	=	2	+	8	-	2
D	_	Ω	_	1		

PHASE DESIGNATION DIAGRAM

		. D 0	T		
		I. D. O			
	TRAFFIC S				
	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		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

332

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

က ≺ ဩ R ထ ≻ ပ +Y +G G≯ ILLINOIS ROUTE 43 7-2-2 -TRACER CABLE TRACER CABLE -INTERCONNECT TO UPS - Inc MARTIN LUTHER KING JR. DRIVE

CABLE PLAN

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

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

SCHEDULE OF QUANTITIES

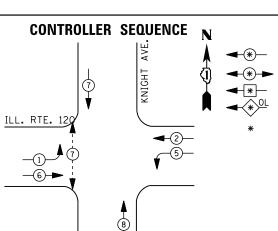
QUANTITY <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
MODIFY EXISTING CONTROLLER CABINET
UNINTERRUPTABLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION,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

TS# 6810 WAUKEGAN

COUNTY TOTAL SHEET NO.

LAKE 97 84 FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW IL ROUTE 43 AT 22ND ST /M.L. KING JR. DRIVE SECTION COUNTY STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM N:\Projects3\12004\DesignCAD\Sheet Fil s 12-002 Sheets NE Lake Co\06810_CAB_LAKE.do DRAWN JDH REVISED 2012-004 I **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60T42 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. REVISED PLOT DATE = 5/16/2012 DATE



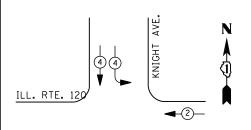


DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

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.

PHASE DESIGNATION DIAGRAM

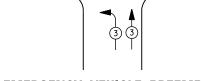


REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

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

SIGNAL POST EACH



-2

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS										
EMERGENCY VEHICLE PREEMPTOR	2	3	4							
MOVEMENT	-	1								

I. D. O. T.

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS									
	ELECTRICAL	SERVI CE	REQUIR						
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	8	1 35	12	0.10	10				
PED. SIGNAL	2	90	25	1.00	50				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00	1				
					•				
FLASHER LED									

ENERGY COSTS-

FILE NAME =

BILLED TO: IDOT DISTRICT 1

USER NAME = \$USER\$

PLOT SCALE = \$SCALE\$

PLOT DATE = 5/16/2012

N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\07005_CAB_LAKE.do

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

ENERGY SUPPLY -CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

SCHEDULE

QUANTITY

† 7005 JKEGAN TOTAL SHEET SHEETS NO. 97 85 NO. 60T42 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT

R Y G G

ILL. ROUTE 120

↑ ↑ ○ √ ∞

ด **≺** ฆ⊢

<u>DU</u>	JLE OF Q	<u>UANTITIES</u> _{LTEM}		No. 6	2 S			□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	KNIGHT AVENUE	3	2→ 2) R A Y B G 		φ	
	EACH EACH EACH	TRAFFIC SIGNA	OF EXISTING TRAFFIC SIG AL POST, GALVANIZED STE LED, 1-FACE, 3-SECTION,	EL 16 FT.										
	EACH		LED, 1-FACE, 4-SECTION,											
	EACH	SIGNAL HEAD,	LED. 1-FACE. 5-SECTION	, MAST-ARM MOUNTED)				ניין ניין					
	EACH		LED, 2-FACE, 1-3 SECTION											
	EACH EACH		LED, 2-FACE, 1-3 SECTI IGNAL HEAD, LED, 1-FACE,											
	EACH		AL BACKPLATE, LOUVERED,		WITH COUNTDOWN	TIWEN		OADIE D						
	EACH	PEDESTRIAN PL			FR	ONT. ROAD		<u>Cable P</u>	<u>'LAN</u>					
	EACH		ING CONTROLLER CABINET											
	EACH		ING TRAFFIC SIGNAL EQUI											
	EACH	UNINIERRUPIA	BLE POWER SUPPLY, SPECI.	AL									TS	# -
								\					WA	
Т.	REVISED -						U D0	UTF 400 AT VALIDUT AVE	· · · · · · · · · · · · · · · · · · ·		F.A.	CECTION		
_	REVISED -		STAT	E OF ILLINOIS		SCHEL		UTE 120 AT KNIGHT AVE S, Cable Plan, Phase Di		,	F.A. RTE.	SECTION		TOT. SHEE
_	REVISED -			OF TRANSPORTA	ATION			NCY VEHICLE PREEMPTIO		.		2012-004 I	CONTRACT	97
_	REVISED -		DEI AIII INIEIU	J. IIIAIIOI JIII		SCALE: N.T.S.	SHEET NO. C	OF SHEETS STA.	TO STA.			ILLINOIS FED.		NU.
							10:122: 7101	5 5				ILEE INOTS I ED.	AID THOULET	

y A C

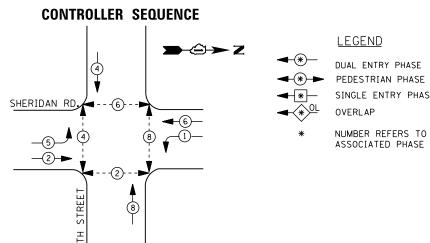
∝ ≻ ∪

~ ≻ ∪ ` ↓ ♀

OLD PLANK ROAD

NO. 6-





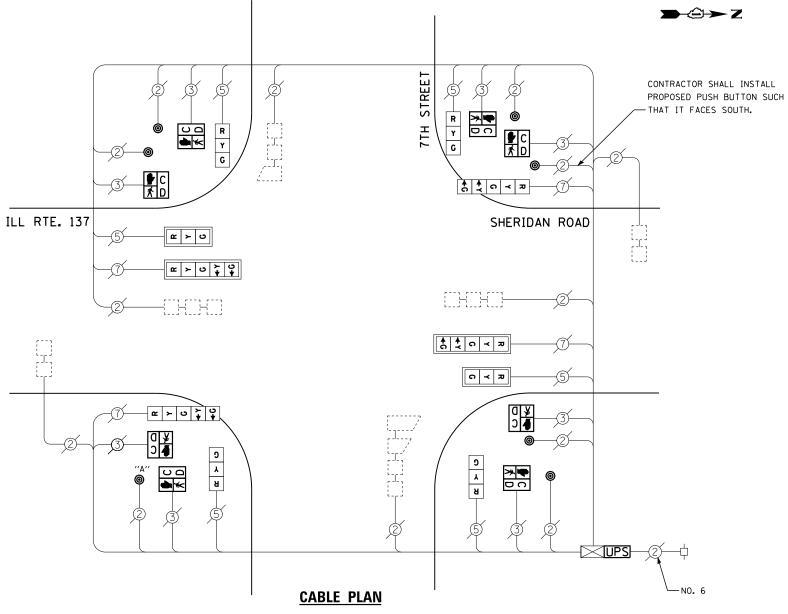
	I. D. O. T.								
	TRAFFIC SIGNAL INSTALLATION								
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	10	1 35	1 7	0.50	85				
(YELLOW)	10	1 35	25	0.25	63				
(GREEN)	10	1 35	15	0.25	38				
ARROW	8	1 35	12	0.10	10				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ı	1.00					
FLASHER LED									
				TOTAL =	496				

BILLED TO: VILLAGE OF WINTHROP HARBOR ENERGY COSTS-830 SHERIDAN RD

WINTHROP HARBOR, IL 60096

ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON SINGLE ENTRY PHASE



PUSH BUTTON "A" SHALL PLACE A CALL IN PHASED 2 AND 4.

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

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

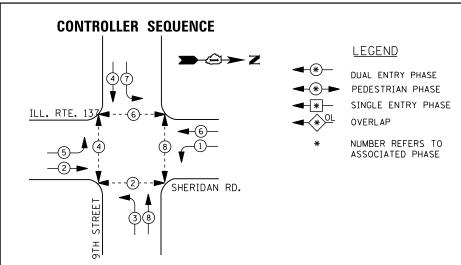
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN SIGNAL HEAD 7 EACH PEDESTRIAN PUSH-BUTTON

TS# 12145 WINTHROP HARBOR

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (SHERIDAN RD) AT 7TH STREET SCHEDULE OF QUANTITIES, CABLE PLAN		F.A.	SECTION	COUNTY	TOTAL S	SHEET	
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\12145_CAB_LAKE.dgr	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS			1,112.	2012-004 I	LAKE	97	86	
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND PHASE DESIGNATION DIAGRAM					CONTRACT	T NO. 60)T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA.	TO STA.		ILLINOIS FED. AII			





		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	12	1 35	1 7	0.50	102
(YELLOW)	12	1 35	25	0.25	75
(GREEN)	12	1 35	15	0.25	45
ARROW	16	1 35	12	0.10	19
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

ENERGY COSTS-

FILE NAME =

ENERGY SUPPLY -

TOTAL =

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

BILLED TO: VILLAGE OF WINTHROP HARBOR

830 SHERIDAN RD

847-816-5239

CONTACT TERRI BLECK

USER NAME = \$USER\$

PLOT DATE = 5/16/2012

PHONE

N:\Projects3\12004\DesignCAD\Sheet Files 12-002 Sheets NE Lake Co\08795_CAB_LAKE.do

WINTHROP HARBOR, IL 60096

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

OUANTITY UNIT ITEM

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

PEDESTRIAN PUSH-BUTTON, NON-LATCHING

FACH

EACH

EACH

EACH

REVISED

REVISED

REVISED

REVISED

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

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 4 EACH PEDESTRIAN PUSH-BUTTON

STREET

9ТН

ດ ≺ ⊅

R V □ ¥ ⊃ **4** D C

SHERIDAN ROAD

R

Y G

Y G ←Y ←G

+ ↓ ↓ ↓

CABLE PLAN

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

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

A V D

ILL RTE. 137

Y G ←Y ←G

∥ແ|≻|ບ|

~ ~ v \ \

C A D

~ > ° > °

TS# 8795 WINTHROP HARBOR

RETROFIT ALL EXISTING

SIGNAL HEADS TO L.E.D.

→②→ Z

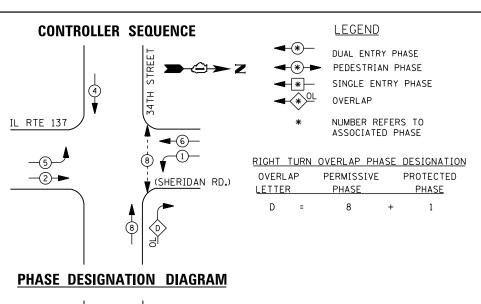
-NO. 6

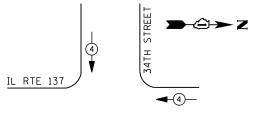
STATE OF ILLINOIS

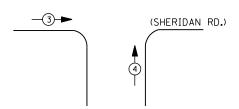
DEPARTMENT OF TRANSPORTATION

| SCALE: N.T.S. | SHEET NO. | OF | SHEET | STA. | TO STA. | SHEET | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | STA. | TO STA. | ILLINOIS | STA. | TO STA. | ILLINOIS | STA. | TO STA. | ILLINOIS | STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA. | TO STA









EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	17	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
(GREEN)	12	1 35	15	0.25	45				
ARROW	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 =	386				

I. D. O. T.

ENERGY COSTS-

BILLED TO: CITY OF ZION

2828 SHERIDAN RD

ZION, IL 60099

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

PHONE 847-816-5239

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

TRACER CABLE

INTERCONNECT TO WADSWORTH RD.

R
Y
G
D

TRACER CABLE

TRACER CABLE

TRACET TO

STREET

R 9

Y A

2 ≻ ∪

ILL ROUTE 137

Y C

2 <u>UPS</u>

œ ≻ ∪ ` ↓ ∵

R

Y G

↑ ↑ C ≺ ਸ਼

(SHERIDAN RD.)

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

→②→ Z

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.

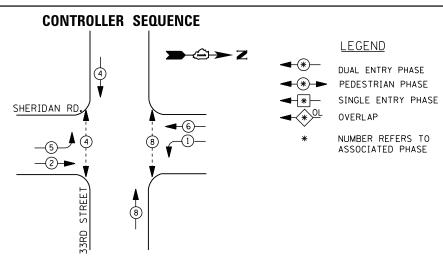
2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

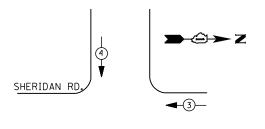
CABLE PLAN

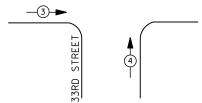
TS# 20908

									210	JIN		
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (SHERIDAN RD) AT 34TH STREET	F.A.	SECTION	COUNTY	TOTAL	SHEE	ſ
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\20908_CAB_LAKE.dg	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,1,1,1	2012-004 I	LAKE	97	88	_
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO.	60T42	
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	$\overline{}$	ILL INOIS FEE	D. AID PROJECT			-









EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL	SERVI CE	REQUIR	EMENTS				
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	12	1 35	1 7	0.50	102			
(YELLOW)	12	1 35	25	0.25	75			
(GREEN)	12	1 35	15	0.25	45			
ARROW	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	ı	1.00	-			
FLASHER LED								
				TOTAL =	432			

I. D. O. T.

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: CITY OF ZION

2828 SHERIDAN RD ZION, IL 60099

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON

→②→ Z C A Y B D Y G \$ \$ 0 < Z SHERIDAN ROAD œ ≻ ∪ ` Ç ↑ ↑ ∩ ≺ *R* - TRACER CABLE STREET Y A TRACER CABLE 33RD INTERCONNECT TO INTERCONNECT TO 34TH STREET RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D. **CABLE PLAN**

SCHEDULE OF QUANTITIES

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

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

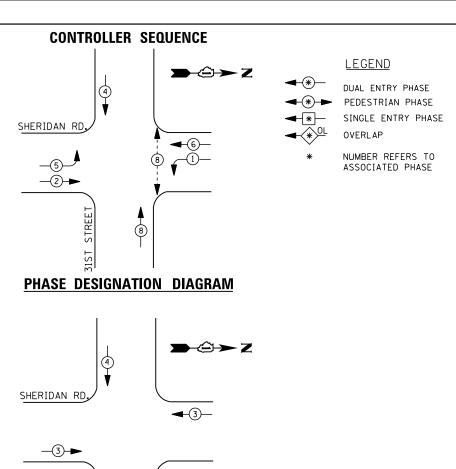
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

TS# 20907 ZION

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 137 (SHERIDAN RD) AT 33RD STREET	F.A. RTF	SECTION	COUNTY	TOTAL SHEET		
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\20907_CAB_LAKE.d	1	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE					2012-004 I	LAKE	97 89
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	NO. 60T42		
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT			





EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE 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)	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	ļ	1.00	1		
FLASHER LED							
				TOTAL =	382		

I. D. O. T.

ENERGY COSTS-

BILLED TO: CITY OF ZION

2828 SHERIDAN RD ZION, IL 60099

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239

COMMONWEALTH EDISON

NO. 6 **UPS** STREET R 9 31ST Y A SHERIDAN ROAD <u>α</u> ≻ υ ↑ ↑ C ≺ ਸ਼ R R TRACER CABLE INTERCONNECT TO 33RD STREET

SCHEDULE OF QUANTITIES

QUANTITY	<u>UN I T</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
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

→②→ Z

- TRACER CABLE

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

INTERCONNECT TO

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

Y

\$ \$ 0 < x

ດ **≺** ສ

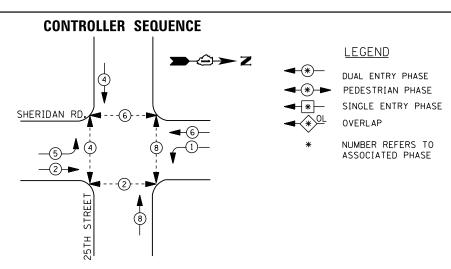
CABLE PLAN

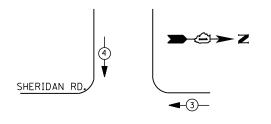
4 EACH TRAFFIC SIGNAL BACKPLATE

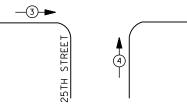
TS# 20906 ZION

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 137 (SHERIDAN RD) AT 31ST STREET	F.A. RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\20906_CAB_LAKE.d	gr DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM			2012-004 I	LAKE	97	90
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	NO. 6	0T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE 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)	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	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ı	1.00					
FLASHER LED									
	TOTAL = 573								

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: CITY OF ZION

2828 SHERIDAN RD

ZION, IL 60099 CONTACT TERRI BLECK

PHONE 847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
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
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

SHERIDAN ROAD

TRACER CABLE -

INTERCONNECT TO 27TH STREET

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

 $\Rightarrow \ominus > Z$

- TRACER CABLE

INTERCONNECT TO 23RD STREET

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.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.

8 EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

≯ C

BL VD.

SHILOH

STREET

Å Å G ≺ Æ

↑ ↑ ∩ ≺ *R*

R Y G

R K

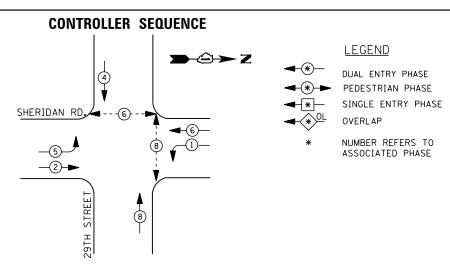
CABLE PLAN

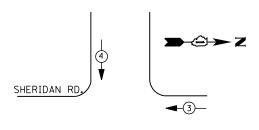
○ ○

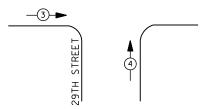
TS# 20905 710N

											210	JIN	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 137 (SHERIDAN RD) AT	25TH STREET (SHILOH BLVD)	F.A.	SECTION	COUNTY	TOTAL S	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\20905_CAB_LAKE.d	gn DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHED	DULE OF QUANTITIES, CABLE PLAN		111111	2012-004 I	LAKE	97	91
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE P	REEMPTION SEQUENCE		2012 00 1 1		T NO. 60)T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	$\overline{}$	ILLINOIS FED. AI			









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PRI	EEMPTORS				
EMERGENCY VEHICLE 3 4						
MOVEMENT	—	1				

TRAFFIC SIGNAL INSTALLATION							
ELECTRICAL SERVICE REQUIREMENTS							
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	ND. 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	4	90	25	1.00	100		
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN		252	25	0.05	1		
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
				TOTAL =	432		

I. D. O. T.

ENERGY COSTS-

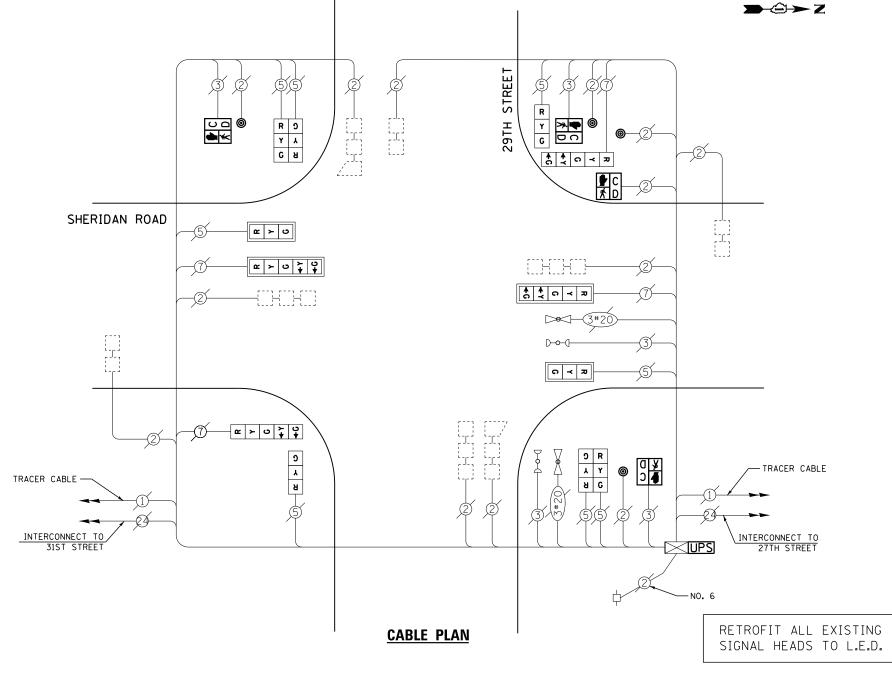
BILLED TO: CITY OF ZION

2828 SHERIDAN RD

ZION, IL 60099 ENERGY SUPPLY -

CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON



SCHEDULE OF QUANTITIES

QUANTITY	<u>UN I T</u>	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 EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

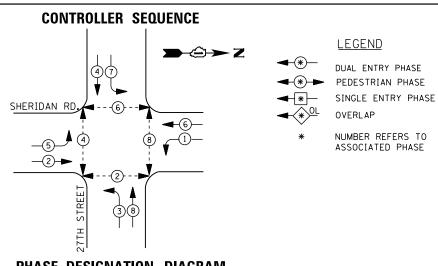
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

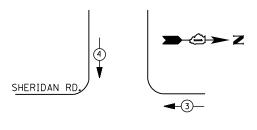
4 EACH PEDESTRI AN SI GNAL HEAD 4 EACH PEDESTRI AN PUSH-BUTTON

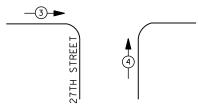
TS# 20904 ZION

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (SHERIDAN RD) AT 29TH STREET			SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\20904_CAB_LAKE.d	1	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM			2012-004 I	LAKE	97 92
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VE	HICLE PR	EEMPTORS		
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)	12	1 35	1 7	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
(GREEN)	12	1 35	15	0.25	45				
ARROW	16	1 35	12	0.10	19				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	5.41				

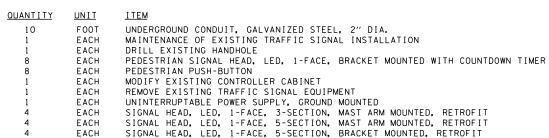
ENERGY COSTS-

BILLED TO: CITY OF ZION

2828 SHERIDAN RD

ZION, IL 60099 ENERGY SUPPLY -CONTACT TERRI BLECK PHONE

847-816-5239 COMMONWEALTH EDISON **SCHEDULE OF QUANTITIES**



$\Rightarrow \Leftrightarrow z$ - TRACER CABLE ∪ <u>0</u> R Y G R Y G +Y +G INTERCONNECT TO Å Å C ≺ Z SHILOH BLVD. (25TH ST.) G 2" UNDERGROUND CONDUIT, GALVANIZED STEEL SHERIDAN ROAD D-0-(I 2 - 0 + 9 **↑** ↑ 0 ≺ ₽ 3 ↓ 0 ↓ 3 1 J 4 ~ > U \ \ \ \ \ \ ٨ STREET **○** ы **№** C TRACER CABLE INTERCONNECT TO 29TH STREET RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

CABLE PLAN

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

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.

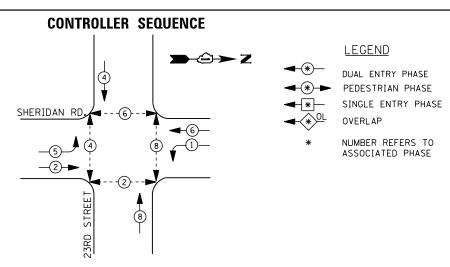
8 EACH PEDESTRIAN SIGNAL HEAD

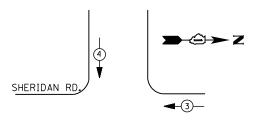
8 EACH PEDESTRIAN PUSH-BUTTON

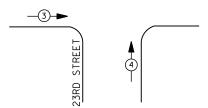
TS# 20903 ZION

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 137 (SHERIDAN RD) AT 27TH STREET	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\20903_CAB_LAKE.de	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE	97	93
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	T NO. 60	0T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI			









EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS		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	1				
FLASHER LED									
I				TOTAL -	F 7.0				

I. D. O. T.

ENERGY COSTS-

BILLED TO: CITY OF ZION

2828 SHERIDAN RD

ZION, IL 60099

CONTACT TERRI BLECK ENERGY SUPPLY -

PHONE 847-816-5239

TOTAL = 532

COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

33233.		
<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TRACER CABLE

INTERCONNECT TO SHILOH (25TH ST.)

SHERIDAN ROAD

REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

8 EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

23RD STREET

G A

| ლ | ≻ | ∪ |

~ × v * v

o c

CABLE PLAN

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

R R

« > U > Q

R W C C

↑ ↑ O ≺ ₽

 $D \rightarrow U$

C ≺ 20

Y X

≫ ●

TS# 20902 710N

→②→ Z

- TRACER CABLE

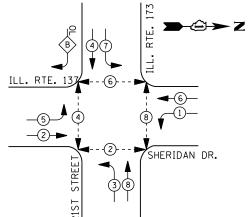
INTERCONNECT TO ILL. RTE. 173/21ST ST.

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

													210	J14	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 1	37 (SHERIDAN	RD) AT 23R	D STREET	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\20902_CAB_LAKE.d	gn DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHED				SIGNATION DIAGRAM	1,112	2012-004 I	LAKE	97	94
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERG	ENCY VEHICLE	PREEMPTION	SEQUENCE			CONTRACT	NO. 60	0T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	\vdash	ILL INOIS FED. AT			







DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINCLE ENTRY PHASE

SINGLE ENTRY PHASE

**OL OVERLAP

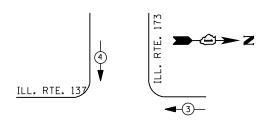
- OVERLAP

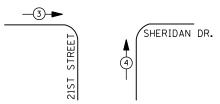
4

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION
OVERLAP PERMISSIVE PROTECTED
LETTER PHASE PHASE

PHASE DESIGNATION DIAGRAM





EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

110 11100			
ELECTRICAL S	SERVICE	REQUIR	FMFNTS
TRAFFIC SI	IGNAL I	NSTALLA	TION
1	I. D. O.	. T.	

	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		150	-	1.00						
FLASHER LED										

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

565

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

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

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

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

NO. 6-

ZUPS

→②→ Z

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

ILL. ROUTE

R Y G ←Y ←G

R ←9 Y ← X

G D

2 ≻ ∪

α ≻ υ , υ

0 ★۲

CABLE PLAN

ILL. RTE. 137

WITH SYSTEM— OUTPUT

TRACER CABLE -

INTERCONNECT TO 23RD STREET

≯ • C

↑ ↑ 0 ≺ 2

១

A Y **≯** C

↑ ↑ ∩ ≺ *¤*

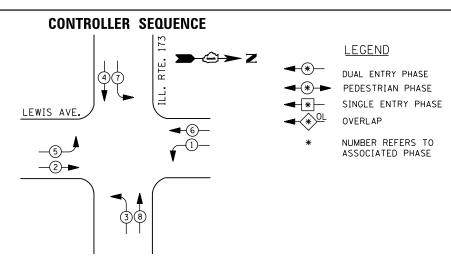
SHERIDAN RD.

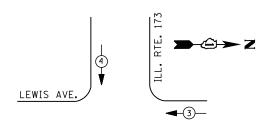
PEDESTRIAN SIGNAL HEAD
PEDESTRIAN PUSH-BUTTON

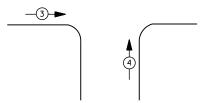
TS# 20901 ZION

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 137 (SHERIDAN RD) AT IL ROUTE 173 (21ST ST)	F.A.	SECTION	COUNTY TOTAL	SHEE
N:\Projects3\12004\DesignCAD\Sheet File	s 12-002 Sheets NE Lake Co\20901_CAB_LAKE.do	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012-004 I	LAKE 97	95
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 6	60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	ID PROJECT	









EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	*	1						

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	13	1 35	17	0.50	111					
(YELLOW)	13	1 35	25	0.25	81					
(GREEN)	13	1 35	15	0.25	49					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
1				TOTAL =	700					

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

SCHAUMBURG, IL 60196-1096

CONTACT TERRI BLECK ENERGY SUPPLY -PHONE

847-816-5239 COMMONWEALTH EDISON

SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UN I T</u>	<u>ITEM</u>
10	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	DRILL EXISTING HANDHOLE
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED

ROUTE R Y G γ G +Υ +G Y G +Y +G ↑ ↑ O ≺ ₽ LEWIS AVENUE R C -EXISTING LOCAL/SYTEM DETECTION **~** ≻ ∪ > ↓ ↓ \$ \$ 0 < 2 EXISTING-LOCAL/SYTEM DETECTION D-O-(1-C ≺ Z C B C G B TRACER CABLE -INTERCONNECT TO 21ST STREE 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" **CABLE PLAN** -2" UNDERGROUND CONDUIT, GALVANIZED STEEL

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 8 EACH SIGNAL HEAD, 5 - SECTION

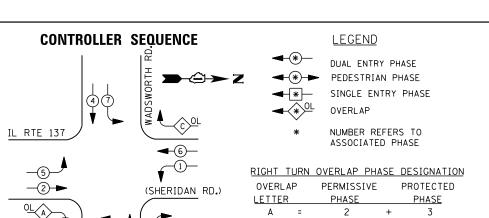
8 EACH TRAFFIC SIGNAL BACKPLATE

TS# 20900 ZION

 $\Rightarrow \hat{\mathbf{z}} \rightarrow \mathbf{z}$

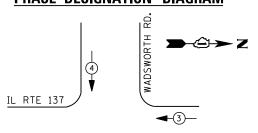
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 173 AT LEWIS AVENUE	F.A. RTF.	SECTION	COUNTY S	TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\20900_CAB_LAKE.d	1 -	JDH	REVISED -	STATE OF ILLINOIS	SCHEE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-004 I	LAKE	97 96
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT I	NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	ID PROJECT	

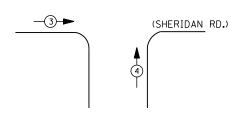




38

 \bigcirc





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										
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	28	1 35	12	0.10	34					
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 = 430									

BILLED TO: IDOT DISTRICT 1

CONTACT <u>TERRI BLECK</u>

847-816-5239

PHONE

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

ENERGY COSTS-

ENERGY SUPPLY -

SCHEDULE OF QUANTITIES

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

8 EACH TRAFFIC SIGNAL BACKPLATE

TS# 7195 ZION

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL RTE 137 (SHERIDAN RD) AT WADSWORTH RD	F.A. SECTION	COUNTY TOTAL SHEET
N:\Projects3\12004\DesignCAD\Sheet Files	12-002 Sheets NE Lake Co\07195_CAB_LAKE.dg		JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	2012-004 I	LAKE 97 97
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60T42
	PLOT DATE = 5/16/2012	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED.	AID PROJECT

P		M 	> - △ > Z
A P SWORTH RD.		**************************************	
7 4 4 0 4 2		(SHERIDAN RD	
		D-0-(1)	EXISTING LOCAL/SYSTEM DETECTION
ILL ROUTE 137		3*20 (3*20)	
2	9+	R D+	ф_ _M
	2 2 2 2 3 3 m 7 2 2 2 2 2	Y A+ G O Y+ A G+ B	INTERCONNECT TO 34TH STREET
NO. 6		= _p	

CABLE PLAN

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D