1-17-14 LETTING ITEM 017

OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY

STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

URBAN LANE CLOSURE, MULTILANE INTERSECTION

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

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC CONTROL DEVICES

SIGN PANEL MOUNTING DETAILS

UNINTERRUPTABLE POWER SUPPLY

TRAFFIC SIGNAL MOUNTING DETAILS

SIGN PANEL ERECTION DETAIL

HIGHWAY_STANDARD

701001-02

701006-05

701701-09

701901-03

720001--01

720006-04

857001-01

862001--01

880006-01

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

PROPOSED **HIGHWAY PLANS**

VARIOUS LOCATIONS IN NORTH COOK COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION **CONTRACT #5**

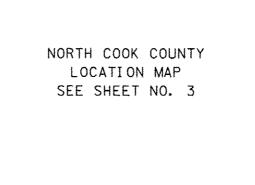
> **SECTION 2013–055TS COOK COUNTY** C-91-021-14

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

J.U.L.I.E. JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: STEVEN NGUYEN (847) 705-4184 PROJECT MANAGER: SUDUD MAHMOUD (847) 705-4420

CONTRACT NO. 60X16



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11

LOCATION MAP

PLANS PREPARED B



F.A.P. TOTAL SHEET SECTION COUNTY COOK 2013-055TS woonking No. 1 Can 01 #111 DOUGLA LOCATION OF SECTION INDICATED THUS: -JOSEPH EMRY, BA. IL LIC. NO. 062-057496 ICENSED IFESSION INGINEER OF EXPIRES 11-30-2013 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** SUBMITTED OCT II . 20 13 Ininin a John EPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER _20 13 6 John D. Baranzelli, P.E. Oner Osman PE./BL **PRINTED BY AUTHORITY** OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRI	
ł	COVER	SHEE

- INDEX OF SHEETS 2
- 3-4 LOCATION MAP
- 5-10 SUMMARY OF QUANTITIES
- DISTRICT & STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05) 11-16

SHEET NO. TS * INTERSECTION NAME

17	5235	GREENWOOD AVENUE AT EAST LAKE AVENUE
18	2050	IL ROUTE 21 (MILWAUKEE AVENUE) AT EUCLID AVENUE / LAKE AVENUE
19	4742	CENTRAL ROAD AT DEARLOVE ROAD
20	4740	CENTRAL ROAD AT DEE ROAD
21	4745	CENTRAL ROAD AT GREENWOOD AVENUE
22	2055	IL ROUTE 21 (MILWAUKEE AVENUE) AT CASTILLIAN COURT / ZENITH DRIVE
23	2010	11 ROUTE 21 (MILWAUKEE AVENUE) AT DEARLOVE ROAD/ GLENVIEW ROAD
24	2045	IL ROUTE 21 IMILWAUKEE AVENUE) AT SANDERS ROAD
25	10900	IL ROUTE 43 (WAUKEGAN ROAD) AT CARILLON SOUARE
26	10880	IL ROUTE 43 (WAUKEGAN ROAD) AT DEWES STREET
27	2300	IL ROUTE 43 (WAUKEGAN ROAD) AT EAST LAKE AVENUE
28	10905	IL ROUTE 43 (WAUKEGAN ROAD) AT GLENVIEW ROAD
29	10920	1L ROUTE 43 (WAUKEGAN ROAD) AT GROVE AVENUE
30	2780	IL ROUTE 58 (GOLF ROAD) AT HARLEM AVENUE
31	2800	1L ROUTE 58 (GOLF ROAD) AT KRAFT FOODS
32	21600	PFINGSTEN ROAD AT GLENLAKE DRIVE/ GLENBROOK HOSPITAL
33	5932	WILLOW ROAD AT PATRIOT BOULEVARD
34	5931	WILLOW ROAD AT RAVINE WAY
35	5260	GROSS POINT ROAD/ HARTS ROAD AT TOUHY AVENUE
36	1995	IL ROUTE 21 (MILWAUKEE AVENUE) AT IL ROUTE 58 (GOLF ROAD)
37	1215	US ROUTE 14 (CALDWELL AVENUE) AT GROSS POINT ROAD
38	415D	GREENWOOD AVENUE AT BALLARD ROAD
39	11165	HARLEM AVENUE AT MONROE STREET/ CLEVELAND STREET
40	5330	HOWARD STREET AT GROSS POINT ROAD/ MENARD AVENUE
4]	11260	HOWARD STREET AT WALKEGAN ROAD
42	2000	IL ROUTE 21 (MILWAUKEE AVENUE) AT BALLARD ROAD
43	2060	IL ROUTE 21 (MILWAUKEE AVENUE) AT GOLF MILL CENTER ENTRANCE
44	2065	IL ROUTE 21 (MILWAUKEE AVENUE) AT GOLF MILL NORTH ENTRANCE
45	2015	IL ROUTE 21 (MILWAUKEE AVENUE) AT CREENWOOD ROAD
45	5495	MILWAUKEE AVENUE AT WAUKEGAN ROAD
47	2030	IL ROUTE 21 (MILWAUKEE AVENUE) AT MARYLAND STREET / CHURCH STREET
48	11160	HARLEM AVENUE AT MAIN STREET
49	2411	IL ROUTE 43 (HARLEM AVENUE) AT PIONEER PARK / BROOKS PARK
50	2885	IL ROUTE 58 (GOLF ROAD) AT FOUR FLAGGS SHOPPING CENTER
51	21125	IL ROUTE 58 (GOLF ROAD) AT GOLF GLEN SHOPPING CENTER
52	11170	IL ROUTE 58 (GOLF ROAD) AT MICHAEL MANOR
53	11210	IL ROUTE 58 (GOLF ROAD) AT TOYS R US / MILWAUKEE PLAZA
54	2850	IL ROUTE 58 (GOLF ROAD) AT WASHINGTON ROAD
55	5490	MILWAUKEE AVENUE AT TOUHY AVENUE
56	11263	OAKTON STREET AT CUMBERLAND AVENUE
57	2087	OAKTON STREET AT NILES CIVIC CENTER PLAZA
58	11250	TOUHY AVENUE AT CENTRAL AVENUE
59	5841	TOUHY AVENUE AT MEADE AVENUE

SHEET NO. TS . INTERSECTION NAME

60	5843	TOUHY AVENUE AT MELVINA AVENUE
61	5840	TOUHY AVENUE AT MOBILE AVENUE
62	11161	TOUHY AVENUE AT NORTH POINT PLAZA
63	5845	TOUHY AVENUE AT RIVERSIDE DRIVE
64	20935	TOUHY AVENUE AT VILLAGE CROSSING SHOPPING CENTER ENTRANCE C
65	1230	US ROUTE 14 (CALDWELL AVENUE) AT HOWARD STREET
66	1200	US ROUTE 14 (DEMPSTER STREET) AT CUMBERLAND AVENUE
67	1265	US ROUTE 14 (DEMPSTER STREET) AT OZARK AVENUE
68	20555	WAUKEGAN ROAD AT NILES CIVIC CENTER PLAZA
69	2410	IL ROUTE 43 (HARLEM AVENUE) AT TOUHY AVENUE
70	1220	US ROUTE 14 (DEMPSTER STREET) AT HARLEM AVENUE
71	1295	US ROUTE 14 IDEMPSTER STREET) AT SHERMER ROAD
72	326	US ROUTE 14 (DEMPSTER STREET) AT 1L ROUTE 21 (MILWAUKEE AVENUE)
73	14490	IL ROUTE 43 (WAUKEGAN ROAD) AT WESTLEIGH DRIVE

GENERAL NOTES

THE ILLINDIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2012; MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION: PROJECT SPECIFICATIONS; ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION, AND ALL ADDENDA THERETO SHALL COVERN THIS WORK.

THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

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

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

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "ULLIE" AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-70D0 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED)

THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING 1007 ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

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

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED, ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND, ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMAWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

THE CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS AND EMERGENCY VEHICLE PRIORITY SYSTEM DETECTOR UNITS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO THE NEW POST AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC SIGNAL POST. GALVANIZED STEEL" OF THE HEIGHT SPECIFIED IN THE PLANS.

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

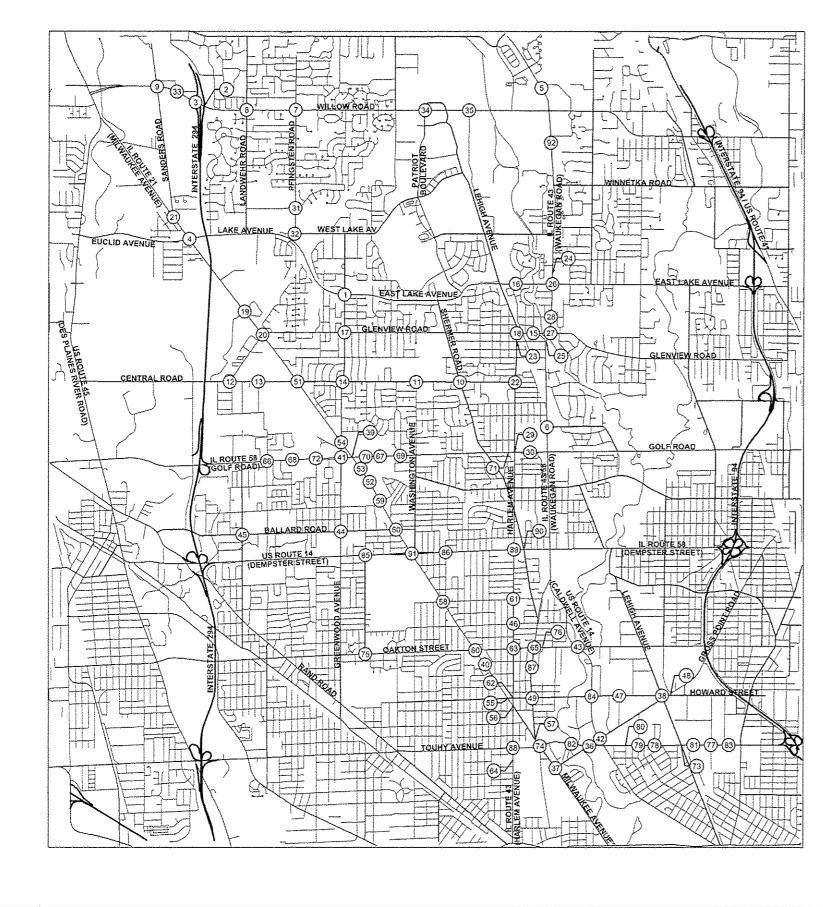
AT LOCATIONS ON THE PLANS WHERE TRAFFIC SIGNAL POST REMOVAL AND NEW TRAFFIC SIGNAL POST INSTALLATION ARE SPECIFIED, THE CONTRACTOR SHALL INSPECT THE EXISTING POST FOUNDATIONS. PRIOR TO REMOVING THE EXISTING TRAFFIC SIGNAL POST TO BE REPLACED. THE CONTRACTOR SHALL VERIFY IF THE EXISTING CONDITION OF THE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

OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

	USER NAME = jre	DESIGNED - BRD	REVISED -			
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	INDEX 0	OF SHEETS
CIVILTECH	PLOT SCALE = 40.0000 '/ in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		
	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NO SCALE SHEET NO. 1 OF 1 SH	HEETS STA

THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING CABLES DURING THE REMOVAL OF EXISITNG TRAFFIC SIGNAL POSTS OR INSTALLATION OF PROPOSED TRAFFIC SIGNAL POSTS. ANY CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION

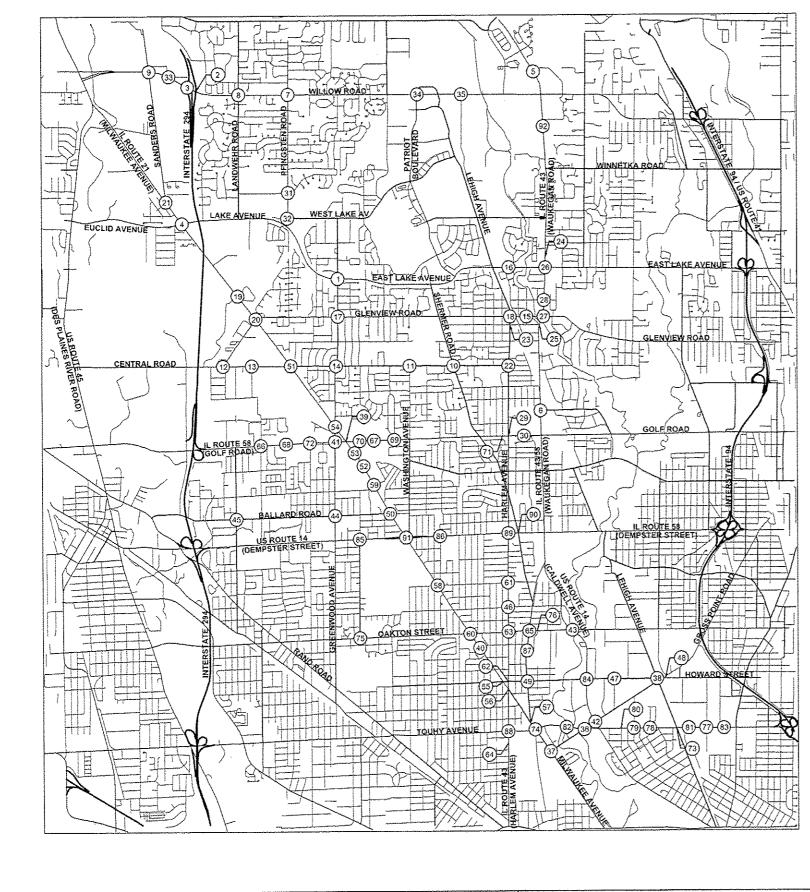
		F.A.P. RTE.	SECTION	COUNTY TOTA		SHEET	
\$			2013-05515	COOK	73	5	
				CONTRACT		60X16	
TA.	TO STA.		ILLINOIS FED. AT	D PROJECT			



LOCATION NUMBER	TS =	INTERSECTION	
1	5235	GREENWOOD AVENUE AT EAST LAKE AVENUE	
2	140	1-294 EAST RAMP AT WILLOW ROAD	DELETE
3	145	1-294 WEST RAMP AT WILLOW ROAD	DELETE
4	2050	IL ROUTE 21 IMILWAUKEE AVENUE) AT EUCLIO AVENUE / LAKE AVENUE	
5	10595	IL ROUTE 43 (WAUKEGAN ROAD) AT KRAFT FOOD/THREE LAKES	DELETE
6	21855	IL ROUTE 43 (WAUKEGAN ROAD) AT OVERLOOK OR/KRAFT FOOD ENT	DELETE
7	5655	PFINGSTEN ROAD AT WILLOW ROAD	DELETE
8	5920	WILLOW ROAD AT LANDWEHR ROAD	DELETE
9	5925	WILLOW ROAD AT SANDERS ROAD	DELETE
10	10925	CENTRAL ROAD AT SHERMER ROAD	DELETE
11	10885	CENTRAL ROAD AT WASHINGTON ROAD	DELETE
12	4742	CENTRAL ROAD AT DEARLOVE ROAD	
13	4740	CENTRAL ROAD AT DEE ROAD	
14	4745	CENTRAL ROAD AT GREENWOOD AVENUE	
15	10890	CHURCH STREET AT CLENVIEW ROAD	DELETE
16	10895	EAST LAKE AVENUE AT SCOTT FORESMAN ROAD	DELETE
17	5135	GLENVIEW ROAD AT GREENWOOD AVENUE	DELETE
18	10930	HARLEM AVENUE/LEHIGH AVENUE AT CLENVIEW ROAD	DELETE
19	2055	IL ROUTE 21 (MILWAUKEE AVENUE) AT CASTILLIAN COURT / ZENITH DRIVE	
20	2010	IL ROUTE ZI (MILWAUKEE AVENUE) AT DEARLOVE ROAD/ GLENVIEW ROAD	
21	2045	11 ROUTE 21 (MILWAUKEE AVENUE) AT SANDERS ROAD	
22	10600	HARLEM AVENUE AT CENTRAL ROAD	DELETE
23	10932	HARLEM AVENUE AT DEWES STREET	DELETE
24	10900	11 ROUTE 43 (WAUKEGAN ROAD) AT CARILLON SOUARE	
25	10880	IL ROUTE 43 (WAUKEGAN ROAD) AT DEWES STREET	·
26	2300	IL ROUTE 43 (WAUKEGAN ROAD) AT EAST LAKE AVENUE	
27	10905	IL ROUTE 43 (WAUKECAN ROAD) AT CLENVIEW RDAD	
28	10920	IL ROUTE 43 (WAUKEGAN ROAD) AT GROVE AVENUE	
29	2780	IL ROUTE 58 (GOLF ROAD) AT HARLEM AVENUE	
30	2600	IL ROUTE 58 (SOLF ROAD) AT KRAFT FOODS	
31	21600	PFINGSTEN ROAD AT GLENLAKE DRIVE/ GLENBROOK HOSPITAL	
32	11305	PFINGSTEN ROAD AT WEST LAKE AVENUE	DELETE
33	5927	WILLOW ROAD AT WATERVIEW DRIVE/PROTECTION PARKWAY	DELETE
34	5932	WILLOW ROAD AT PATRIOT BOLLEVARD	
35	5931	WILLOW RDAD AT RAVINE WAY	
36	5260	GROSS POINT ROAD/ HARTS ROAD AT TOUHY AVENUE	
37	5285	GROSS POINT ROAD/HARTS ROAD AT MILWAUKEE AVENUE	DELETE
38	5335	HOWARD STREET AT LEHIGH AVENUE	DELETE
39	1995	IL ROUTE 21 (MILWAUKEE AVENUE) AT IL ROUTE 58 (GOLF ROAD)	
40	2035	IL ROUTE 21 (MILWAUKEE AVENUE) AT DAK MILL MALL	DELETE
41	2775	IL ROUTE 58 (GOLF ROAD) AT GREENWOOD AVENUE	DELETER
42	1215	US ROUTE 14 (CALDWELL AVENUE) AT GROSS POINT ROAD	
43	1260	US ROUTE 14 (CALDWELL AVENUE) AT OKUSS FORM HONO	DELETER
44	4150	GREENWOOD AVENUE AT BALLARD ROAD	
45	4155	POTTER ROAD AT BALLARD ROAD	DELETER
46	11165	HARLEM AVENUE AT MONROE STREET/ CLEVELAND STREET	
47	11265	HOWARD STREET AT CRONAME ROAD	DELETEO
48	5330	HOWARD STREET AT DROSS POINT ROAD/ MENARD AVENUE	
49	11250	HOWARD STREET AT WAUKEGAN ROAD	
50	2000	IL ROUTE 21 (MILWAUKEE AVENUE) AT BALLARD ROAD	
51	2005	IL ROUTE 21 (MILWAUKEE AVENUE) AT CENTRAL ROAD	DELETEO
52	2060	IL ROUTE 21 (MILWAUKEE AVENUE) AT SOLF MILL CENTER ENTRANCE	
53	2065	IL ROUTE 21 MAILHAUKEE AVENUET AT SOLF MILL CENTER ENTRANCE	
54	2015	IL ROUTE 21 (MILMAUREE AVENUE) AT GOLF MILL NORTH ENTRANCE	
		IL ROUTE 21 IMILWAUKEE AVENUE AT GREENWOOD ROAD	001070
	2020		DELETE
55	1990	IL ROUTE 21 (MILWAUKEE AVENUE) AT IL ROUTE 43 (HARLEM AVENUE)	DELETER
57	5495	MILWAUKEE AVENUE AT WAUKEGAN ROAD	
58	2025	IL ROUTE 21 (MILWAUKEE AVENUE) AT MAIN STREET	DELETER
59	2030	IL ROUTE 21 (MILWAUKEE AVENUE) AT MARYLAND STREET / CHURCH STREET]	

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	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET	
WAP			2013-055TS	COOK	73	3
				CONTRACT	NO. 6	50X16
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LOCATION NUMBER	7S *	INTERSECTION	
61	11160	HARLEM AVENUE AT MAIN STREET	
62	2330	11 ROUTE 43 (HARLEM AVENUE) AT HOWARD STREET	DELETE
63	2080	IL ROUTE 43 (HARLEM AVENUE) AT IL ROUTE 43 (DAKTON STREET)	DELETE
64	2411	11 ROUTE 43 (HARLEM AVENUE) AT PIONEER PARK / BROOKS PARK	
65	2085	IL ROUTE 43 (WAUKEGAN ROAD) AT IL ROUTE 43 (DAKTON STREET)	DELETE
66	2750	11. ROUTE 58 (GOLF ROAD) AT DEE ROAD	DELETE
67	2885	IL ROUTE SB (GOLF ROAD) AT FOUR FLAGGS SHOPPING CENTER	
58	2)125	1L ROUTE 58 (GOLF ROAD) AT COLF GLEN SHOPPING CENTER	
69	11170	IL ROUTE 58 (GOLF ROAD) AT MICHAEL MANOR	
70	11210	IL ROUTE SE (GOLF ROAD) AT TOYS R US / MILWAUKEE PLAZA	
71	2850	11 ROUTE 58 (GOLF ROAD) AT WASHINGTON ROAD	
72	2855	IL ROUTE 58 (GOLF ROAD) AT WESTERN AVENUE	DELETE
73	\$455	LEHIGH AVENUE AT TOUHY AVENUE	DELETE
74	5490	MILWAUKEE AVENUE AT TOUHY AVENUE	
75	11263	OAKTON STREET AT CUMBERLAND AVENUE	
76	2087	OAKTON STREET AT NILES CIVIC CENTER PLAZA	
77	11250	TOUHY AVENUE AT CENTRAL AVENUE	
78	5841	TOUHY AVENUE AT MEADE AVENUE	
79	5843	TOUHY AVENUE AT MELVINA AVENUE	
80	5840	TOUHY AVENUE AT MOBILE AVENUE	
81	11161	TOUHY AVENUE AT NORTH POINT PLAZA	
82	5845	TOUHY AVENUE AT RIVERSIDE DRIVE	
83	20935	TOUHY AVENUE AT VILLAGE CROSSING SHOPPING CENTER ENTRANCE C	
84	1230	US ROUTE 14 (CALDWELL AVENUE) AT HOWARD STREET	
85	1200	US ROUTE 14 (DEMPSTER STREET) AT CUMBERLAND AVENUE	
86	1265	US ROUTE 14 (DEMPSTER STREET) AT OZARK AVENUE	
87	20555	WAUKEGAN ROAD AT NILES CIVIC CENTER PLAZA	
88	2410	11 ROUTE 43 (HARLEM AVENUE) AT TOUHY AVENUE	
89	1220	US ROUTE 14 (DEMPSTER STREET) AT HARLEM AVENUE	
90	1295	US ROUTE 14 (DEMPSTER STREET) AT SHERMER ROAD	
91	326	US ROUTE 14 (DEMPSTER STREET) AT IL ROUTE 21 (MILWAUKEE AVENUE)	
92	14480	IL ROUTE 43 (WAUKEGAN ROAD) AT WESTLEIGH DRIVE	

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		DRAWN -	JRT	REVISED	~	STATE OF ILLINOIS	ł		L	DCATION	N MAP
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	2013-05575	COOK	73	4
		CONTRACT	NO. 6	OX16
TA, TO STA,	ALLINOIS FED. A	10 PROJECT		

			FUNDING PARTICIPATION									
COLUMN NUMBER	TS ≖	INTERSECTION	STATE	GLENVIEW	NILES	MORTON GROVE	MAINE TWP.	T T W	700 Golf RD. LLC	MONTE CARLO PLAZA 1, LLC	MILWAUKEE GOLF MILL S.C.	INLAI PROF
1	5235	GREENWOOD AV. AT EAST LAKE AV.	100%									1
1	2050	IL ROUTE 21 MILWAUKEE AV.) AT EUCLID AV./LAKE AV.	100%						·			1
1	4742	CENTRAL RD. AT DEARLOVE RD.	100%									
3	4740	CENTRAL RD. AT DEE RD.	95%				5%					1
1	4745	CENTRAL RD. AT GREENWOOD AV.	100%	····								1
2	2055	IL ROUTE 21 (MILWAUKEE AV.) AT CASTILLIAN CT./ZENITH DR.	95%	5%								
4	2010	IL ROUTE 21 (MILWAUKEE AV.) AT DEARLOVE RD./GLENVIEW RD.	97.5%	2.5%								
5	2045	IL ROUTE 21 (MILWAUKEE AV.) AT SANDERS RD.	97.5%							2.5%		<u> </u>
2	10900	IL ROUTE 43 (WALKEGAN RD.) AT CARILLON SOUARE	95%	5%								1
2	10880	IL ROUTE 43 IWAUKEGAN RD.) AT DEWES ST.	95%	5%	*							
1	2300	IL ROUTE 43 (WAUKEGAN RD.) AT EAST LAKE AV.	100%									1
4	10905	IL ROUTE 43 (WALKEGAN RD.) AT GLENVIEW RD.	97.5%	2.5%						********		
S	10920	IL ROLITE 43 (WALKEGAN RD.) AT GROVE ST.	95%	5%	· · · · · · ·		·····					1
2	2780	IL ROUTE SB (COLF RD.) AT HARLEM AV.	95%	5%								
6	2800	IL ROUTE 58 (COLF RD.) AT KRAFT FOOD ENT.	96.7%					1.65%	1.65%			
2	21600	PFINGSTEN RD. AT GLENLAKE DR./GLENBROOK HOSPITAL ENT.	95%	5%			· · · · · · · · · · · · · · · · · · ·					
2	5932	WILLOW RD. AT PATRIOT BLVD.	95%	5%						·····		1
7	5931	WILLOW RD. AT RAVINE WAY	96.7%	3,3%								
1	5260	GROSS POINT RD. AT TOUHY AV.	100%									
3	1995	IL ROUTE 21 (MILWAUKEE AV.) AT IL ROUTE 58 (COLF RO.)	100%									[
1	1215	U.S. ROUTE 14 (CALDWELL AV.) AT GROSS POINT RD.	100%									
8	4150	BALLARD RD. AT GREENWOOD AV.	97.5%		2.5%							
э	11165	HARLEM AV, AT CLEVELAND ST./MONROE ST.	95%		5%							
9	5330	HOWARD ST. AT GROSS PDINT RD./MENARD AV.	95%		5%							
9	31260	HOWARD ST. AT WAUKEGAN RD.	95%		5%							
9	2000	IL ROUTE 21 (MILWAUKEE AV.) AT BALLARD RD.	95%		5%							
10	2060	IL ROUTE 21 (MILWAUKEE AV.) AT GOLF MILL CENTER DR.	95%	-				-			5%	
10	2065	IL ROUTE 21 (MILWAUKEE AV.) AT GOLF MILL NORTH DR.	95%								5%	
1	2015	IL ROUTE 21 (MILWAUKEE AV.) AT GREENWOOD AV.	100%									
1	5495	WILWAUKEE AV. AT WAUKEGAN RD.	100%									
9	2030	IL ROUTE 21 (MILWAUKEE AV.) AT MARYLAND ST./CHURCH ST.	95%		5%							
9	11160	HARLEM AV. AT MAIN ST.	95%		5%							
9	2413	IL ROUTE 43 (HARLEM AV.) AT PIONEER PARK ENT./BROOKS PARK ENT.	95%		5%							
12	2885	IL ROUTE 58 (COLF RD.) AT FOUR FLAGOS SHOPPING CENTER ENT.	96.7%	1					- And			



USER NAME = jne	DESIGNED - BRD	REVISED -		
	DRAWN - JRT	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUAN
PLOT SCALE = 48,2228 // in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION	
PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NO SCALE SHEET NO. 1 OF 6 SHEETS S

	1	1	T	T
AND COMM. ROP. MGMT.	THE PARK AT GOLF MILL	IMPERIAL REALTY	REGENCY CENTERS	DDR CORP
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3.3%				

Rev. NTITIES - LEGEND STA. TO STA. RTE. SECTION COUNTY TOTAL SHEET

·····				-	SUN	MARY OF QU	ANTITIES H	EADING LEG	SEND			
					FUNDING PARTICI	PATION	······					
COLUMN NUMBER	TS *	INTERSECTION	STATE	GLENVIEW	NILES	MORTON GROVE	MAINE TWP.	ITW	700 GOLF RD. LLC	MONTE CARLO PLAZA I, LLC	MILWAUKEE GOLF MILL S.C.	INL AN PROP
13	21125	IL ROUTE 58 (GOLF RD.) AT GOLF GLEN SHOPPING CENTER ENT.	95%					·	-			
9	11170	IL ROUTE 58 (GOLF RD.) AT MICHAEL MANOR	95%		5%							
14	11210	IL ROUTE S8 (GOLF RD.) AT TOYS 'R US ENT./MILWAUKEE PLAZA DR.	95%									
11	2850	JL ROUTE 58 (GOLF RD.) AT WASHINGTON RD.	95%		2,5%		2,5%					
1	5490	MILWAUKEE AV. AT TOUNY AV.	100%									
15	11263	OAKTON ST. AT CUMBERLAND AV.	96.7%		3.3%							
15	2087	OAKTON ST. AT CIVIC CENTER DR.	96.7%		3.3%							
9	11250	TOUHY AV. AT CENTRAL RD./VILLAGE CROSSING SHOPPING CENTER ENT.	95X		5%							
15	5841	TOUHY AV, AT MEADE AV.	96.7%		3.3%							
9	5843	TOUHY AV. AT MELVINA AV.	95%		5%							
9	5840	TOUHY AV. AT MOBILE AV.	95%		5%							
9	11161	TOUNY AV. AT NORTH POINT PLAZA ENT.	95%		5%							
15	5845	TOUHY AV. AT RIVERSIDE DR.	96.7%		3.3%							
19	20935	TOUHY AV, AT VILLAGE CROSSING SHOPPING CENTER ENT, C	95%									
9	1230	U.S. ROUTE 14 (CALDWELL AV.) AT HOWARD ST.	95%		5%							
9	1200	U.S. ROUTE 14 (DEMPSTER ST.) AT CUMBERLAND AV.	95%		5%						-	
16	1265	U.S. ROUTE 14 (DEMPSTER ST.) AT OZARK AV.	95%		2.5%	2.5%						
17	20555	WAUKEGAN RD. AT NILES CIVIC CENTER PLAZA ENT.	96.7%		And Annual An							
1	2410	IL ROUTE 43 (HARLEM AV.) AT TOUHY AV.	100%						-			
18	1220	U.S. ROUTE 14 (DEMPSTER ST.) AT HARLEM AV.	97,5%			2.5%						
16	1295	U.S. ROUTE 14 (DEMPSTER ST.) AT SHERNER RD.	95%		2,5%	2.5%						
1	326	U.S. ROUTE 14 (DEMPSTER ST.) AT IL ROUTE 21 (MILWAUKEE AV.)	100%									
2	14480	IL ROUTE 43 (WAUKEGAN ROAD) AT WESTLEIGH DRIVE	95%	5%								



USER NAME = jre	DESIGNED -	BRD	REVISED	-		
	DRAWN -	JRT	REVISED	~	STATE OF ILLINOIS	
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PLOT DATE = 12/2/2013	DATE -	12/02/2013	REVISED			SHEET NO.

309 - LEGEND

AND COMM. OP. MGMT.	THE PARK AT GOLF MILL	IMPERIAL REALTY	REGENCY CENTERS	DDR CORP
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		5%		
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	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
)		2013-05575	COOK	73	6
			CONTRACT	NO. 6	50X16
TA. TO STA.		ILLINOIS FED. A	10 PROJECT		

VILTECH	DRAWN - JRT REVISED -	STATE OF ILLINOIS	i					MARY						6	A.P.	SECTI	(ON	COUN	it fes	TOTAL HEETS
l	USER NAME = Jot DESIGNED - BRD REVISED -		······		L		<u>l</u>					.1		1		l		_ <u></u>		14 TO
030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EAÇH	47	6	15		4				6	4	4	1		4	**	1		
30100	SIGNAL HEAD. LED. 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	22		2			4	2		2	NJ		1		4 3	3 2	2		
30070	SIGNAL HEAD, LED. 1-FACE. 4-SECTION, BRACKET MOUNTED	EACH	4					4												
30050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	44		3			vera	1		23	7	2	3			3	1		
30020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	54	10	11		4		3		10	4		3		2	3	3		
		EAUS	17											1			2	1		
02520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	14		1						7	2		1			2			
02500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	42		7		6		2		6	4	3	1		2	6	2	,	
02480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	32	2	3				1		17	4		2			1 1			
2440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1																	
00200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1.														1			-
													*							
00200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	57	13	8		2		1	1 1	1 14	2		1	1	1	4 2	1	1	-
02635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1																
00100	MOBILIZATION	L SUM	1	1																
00400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	-															
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DDE 10.	ITEM	ITEM UNIT TOTAL 0021 URBAN																		
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						a											-			
8030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	18	2	3				1			9			1			2		
8030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		2							3								
8030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	33	6	8		4	1			1	4	1	4				2	1	
8030310	SIGNAL HEAD. LED. 3-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1									****								
	STORAL READ, CLD, J , ACL, J SECTION, DIRACLET MOONTED																			
3030330	SIGNAL HEAD, LED, 3-FACE, 2-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1		1															
8055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	2								1								
8055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	18	14				2				2								
8055200	OPTICALLY PROGRAMMED SIGNAL HEAD, LED. 1-FACE, 5-SECTION. MAST ARM MOUNTED	EACH	2	2																
8060110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	3	2								1								
8060155	COMBINATION SIGNAL HEAD, LED. 2-FACE, 1-4 SECTION OPTICALLY PROGRAMMED, 1-5 SECTION, BRACKET MOUNTED	EACH	2	2																
8060180	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1	1																
8102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	130	18	8	4		2	4		8	50	2	8		2	10	8	2	
8102747	PEDESTRIAN SIGNAL HEAD, LED, 2~FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	49	10	9		4					15					2	4		4
8102757	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	2	2															

CIVILTECH

 DRAWN
 JRT
 REVISED
 STATE OF ILLINOIS

 PLOT SCALE + 48.8282 // ID CHECKED
 JJE
 REVISED

 PLOT CATE + 12/02/2013
 DATE
 12/02/2013
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	1 2012-022	COUN	1 (2	9
		CONTRAC	T NO.	60X16
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8200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	119	30	26		8	3	4	· · · · · · · · · · · · · · · · · · ·		18	8	4	4	ļ	6	4		4	
						<u> </u>															
8500100	INDUCTIVE LOOP DETECTOR	EACH	5															5			
2000100		EACH	118	16	œ	4	8	2	4		8	40	2	8		2		6	8	2	
	PEDESTRIAN PUSH-BUTTON		110	1.0			, °				•			0		~					
9500100	RELOCATE EXISTING SIGNAL HEAD	EACH	14	-	4		2					1		-					3		
																		·			
9502210	MODIFY EXISTING CONTROLLER CABINET	EACH	54	12	8	1	2	1	1	1	1	14	2	- 1	1	1	1	3	2	1	
9502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	52	9	8	1	2	1	1			14	2	1	1	1	1	4	2	1 1	
9502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1		1								·								
5302365			L												-						
8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	2									2									
8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	52	12	8	1	2	1	1	1	1	12	2	1	1	1	1	4	1	1	
0007040	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	26		9		3				3	6						1	2		_
8803040	SIGNAL HEAD, LED, 2-FACE, 1-5 SECTION, 1-5 SECTION, BRACKET MODIVIED, RETROFT	EACO	20	1																	
8803042	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1							· · · · · · · · · · · · · · · · · · ·					-			1			
	,					-									-						
8803060	SIGNAL HEAD, LED, 3-FACE, 3-SECTION BRACKET MOUNTED, RETROFIT	EACH	1															1			
8803082	SIGNAL HEAD. LED. 1-FACE. 3-SECTION, BRACKET MOUNTED. RETROFIT	EACH	49	4	4	2	2	******		4	3	16				2		9	2		
							+														
8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	93	13	20	2	2			2	1	34				6		8	2		
							1														

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USER NAME = jrt	DESIGNED -	BRD	REVISED -			F.A.P. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
	DRAWN -	JRT	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES		2013-055TS	COOK	73	9
PLOT SCALE = 48.0008 1/ 10-	CHECKED -	JJE	REVISED -	DEPARTMENT OF TRANSPORTATION			· · · · · · · · · · · · · · · · · · ·	CONTRAC	T NO. 6	0X16
PLOT DATE + 12/2/2013	DATE -	12/02/2013	REVISED -		NO SCALE SHEET NO. 5 OF 6 SHEETS STA. TO STA.		ILLINDIS FED. A	ND PROJECT		

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					L	. L	<u>.</u>			1		TRAFI	IC SIG	NAL						- -
CODE NO.	ITEM	UNIT	TOTAL							·			0021	·					· · · · ·	
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X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	63	9	11	2	4			2	3	23			2		2	2		3
X8803090	SIGNAL HEAD, LED. 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	10	3	2	2				1		4-4					1			
X8803110	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3														3			
X8803120	SIGNAL HEAD. LED. 1-FACE. 4-SECTION, MAST ARM MOUNTED. RETROFIT	EACH	2	2																
X8803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	35	6	6	2	1				and the second se	15			2					2
X8803910	SIGNAL HEAD, LED. 2-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2							1		1								
X8880015	PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	81	14	19	*****	4					25					6	4	4	5
20076604	TRAINEES - TRAINING PRIGRAM GRADUATE	HOUR	500	500																

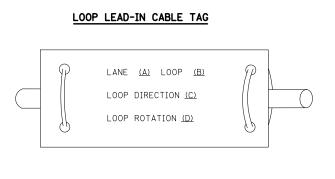
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<	USER NAME = 1015 PLOT SCALE = 48,8282 1/ 10-	DESIGNED - ORAWN - CHECKED -	BRD JRT JJE	REVISED REVISED REVISED	-	STATE OF ILLINOIS DEPARTMENT OF TBANSPORTATION			SUMM	ARY (OF QU	ANTIT
CIVILTECH	PLOT DATE + 12/2/2013	DATE -	12/02/2013	REVISED	-		NO SCALE	SHEET NO.	6 OF	6 5	HEETS	STA.

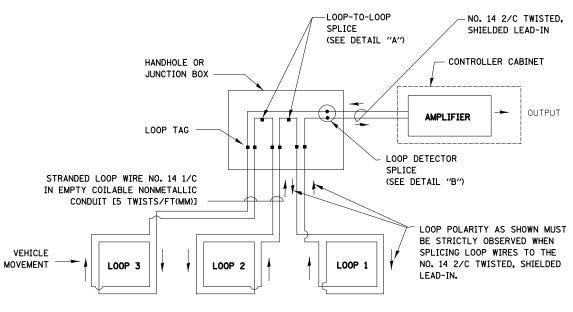
		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET ND.
TITIES			2013-05575	COOK	73	10
				CONTRACT	NO. 6	0X16
TA.	TO STA.		ILLINOIS FED. AI	O PROJECT		

LOOP DETECTOR NOTES

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

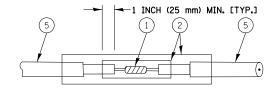


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

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



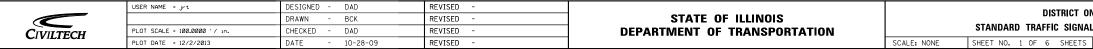
DETAIL "A" LOOP-TO-LOOP SPLICE

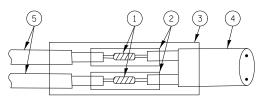
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DETAIL "A" LOOP-TO-LOOP SPLICE

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

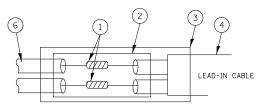
XL POLYOLEFIN 2 CONDUCTOR C BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL





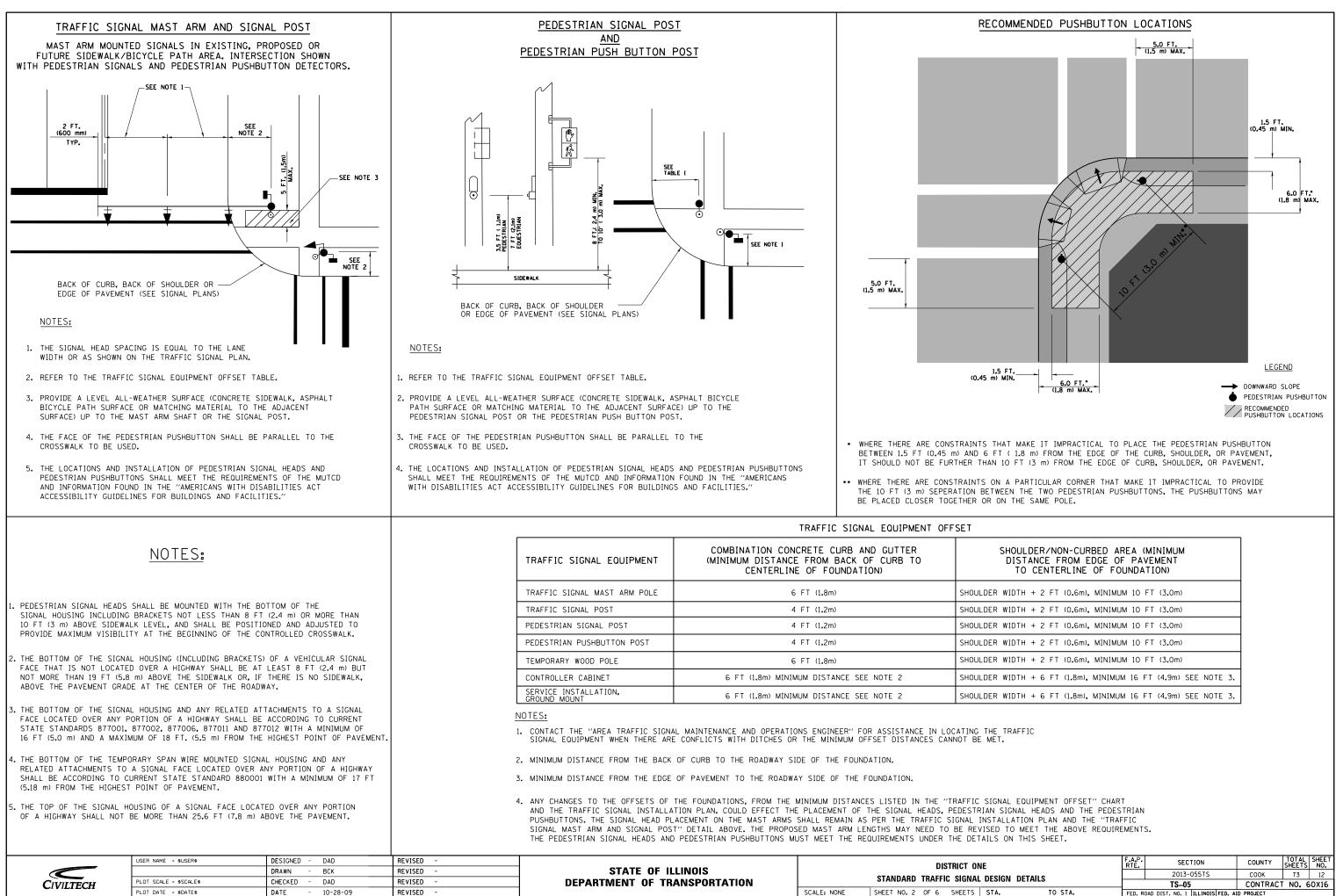
DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

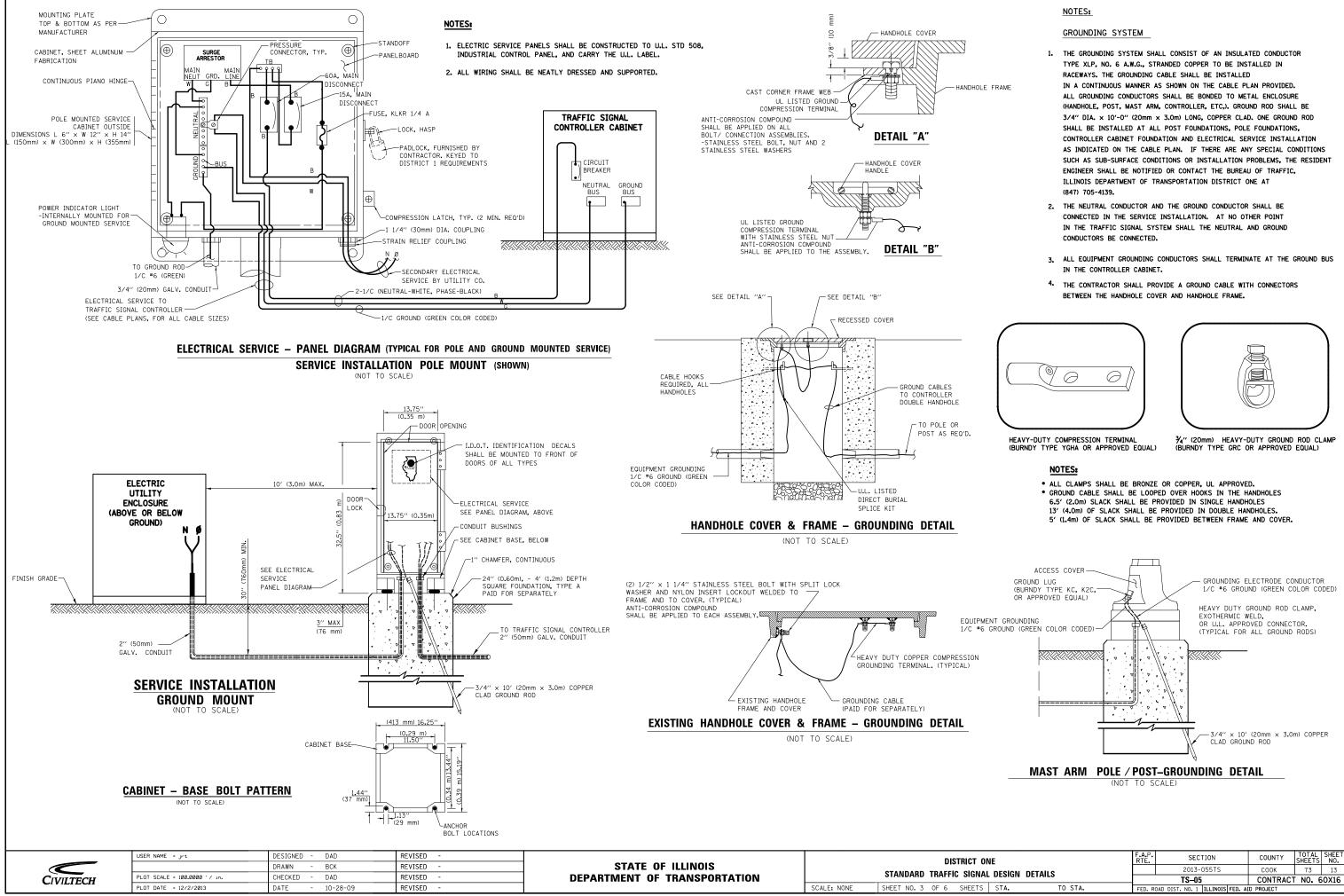


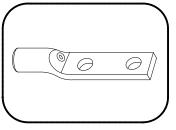
DETAIL "B" PRE-FORMED LOOP LOOP-TO-CONTROLLER SPLICE

01	IE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEE SHEETS NO.			
	DESIGN	DETAILS		2013-055TS	СООК	73	11		
	DESIGN	DETAILS		TS05	CONTRACT	F NO. 6	50X16		
5	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT				



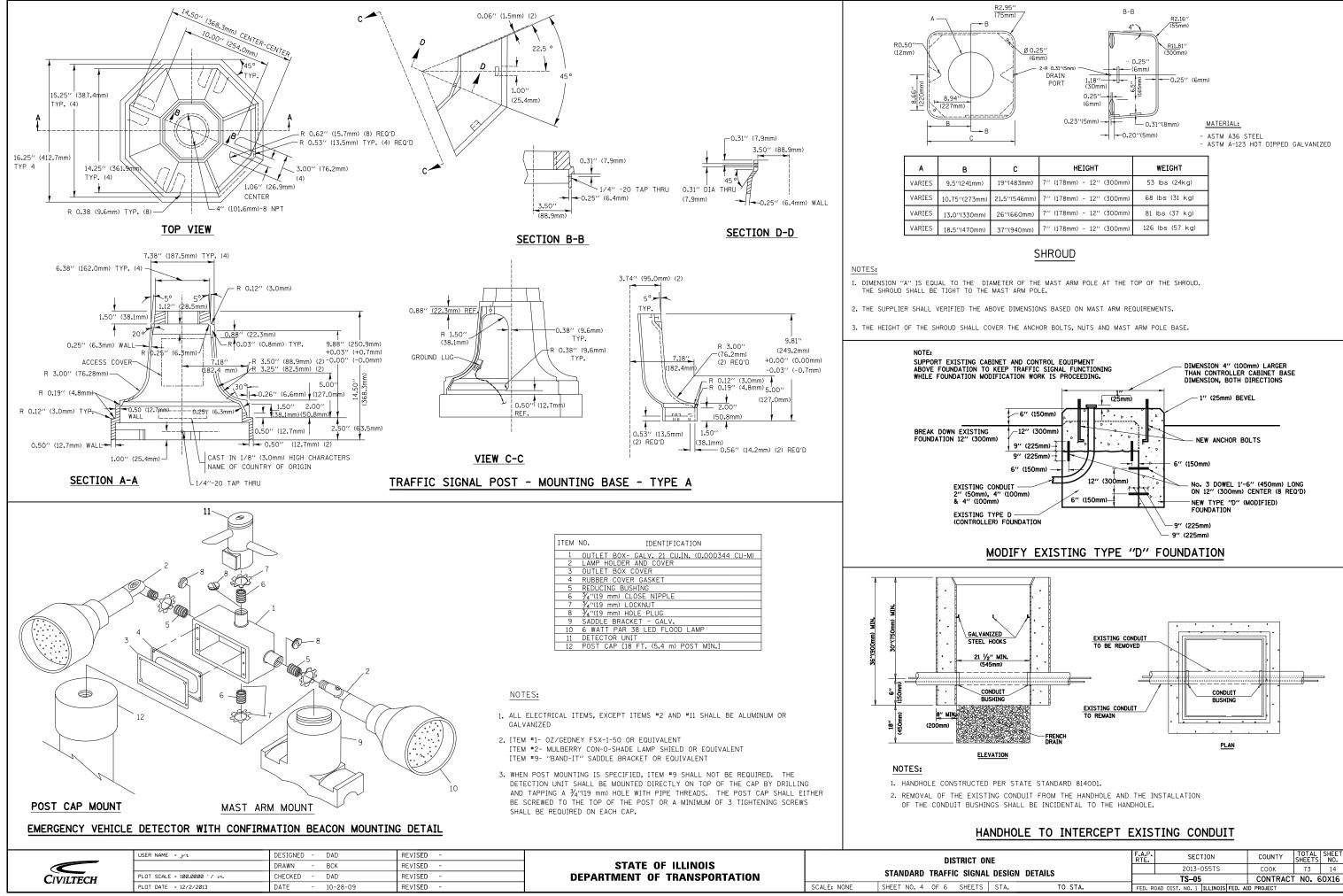
1.41	DEGICN	DETAILS				201	3-0	055TS			СООК	73		1
VAL	DESIGN	DETAILS				rs-4	05				CONTRACT	NO.	60	JX
ſS	STA.	TO STA.	FED.	. ROAD	DIST.	NO.	1	ILL INOIS	FED.	AID	PROJECT			_





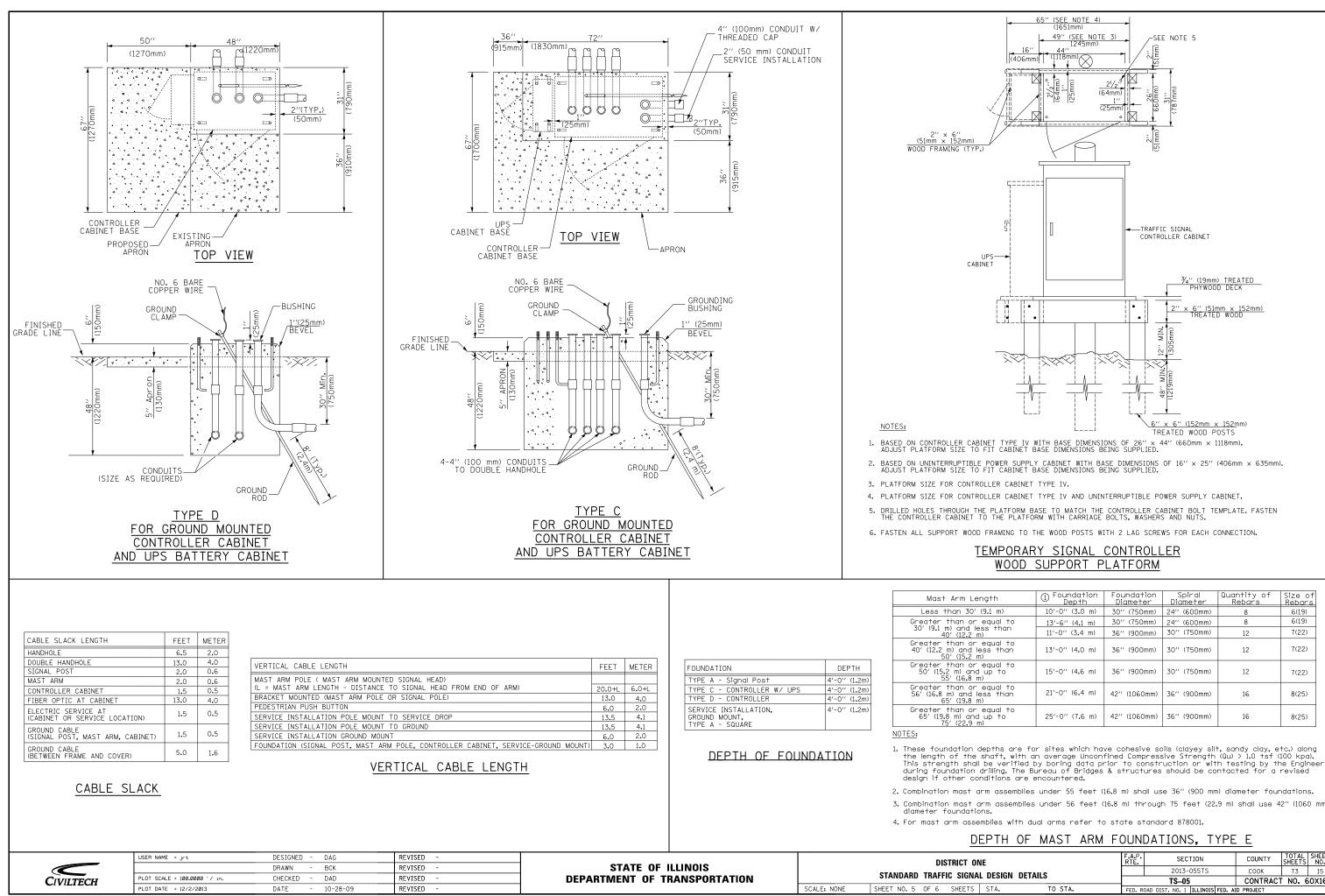


			_								
ON	E		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
	DESIGN	DETAILS		2013-055TS	COOK	73	13				
AL.	DESIGN	DETAILS	TS-05 CONTRACT NO. 60X16								
5	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT						



	С	HEIGHT	WEIGHT
)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
m)	21.5''(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
n)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
ר)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

01	IE		F.A.P. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
лі	DESIGN	DETAILS		2013-0	055TS	COOK	73	14
	DESIGN	DETAILS	_	TS05		CONTRAC	CT NO. 6	50X16
5	STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS FED.	AID PROJECT		



JEPTH	ÛF	MASI	AKM	FOUNL	JATIONS), ITPE	<u>. E</u>
				E A P			

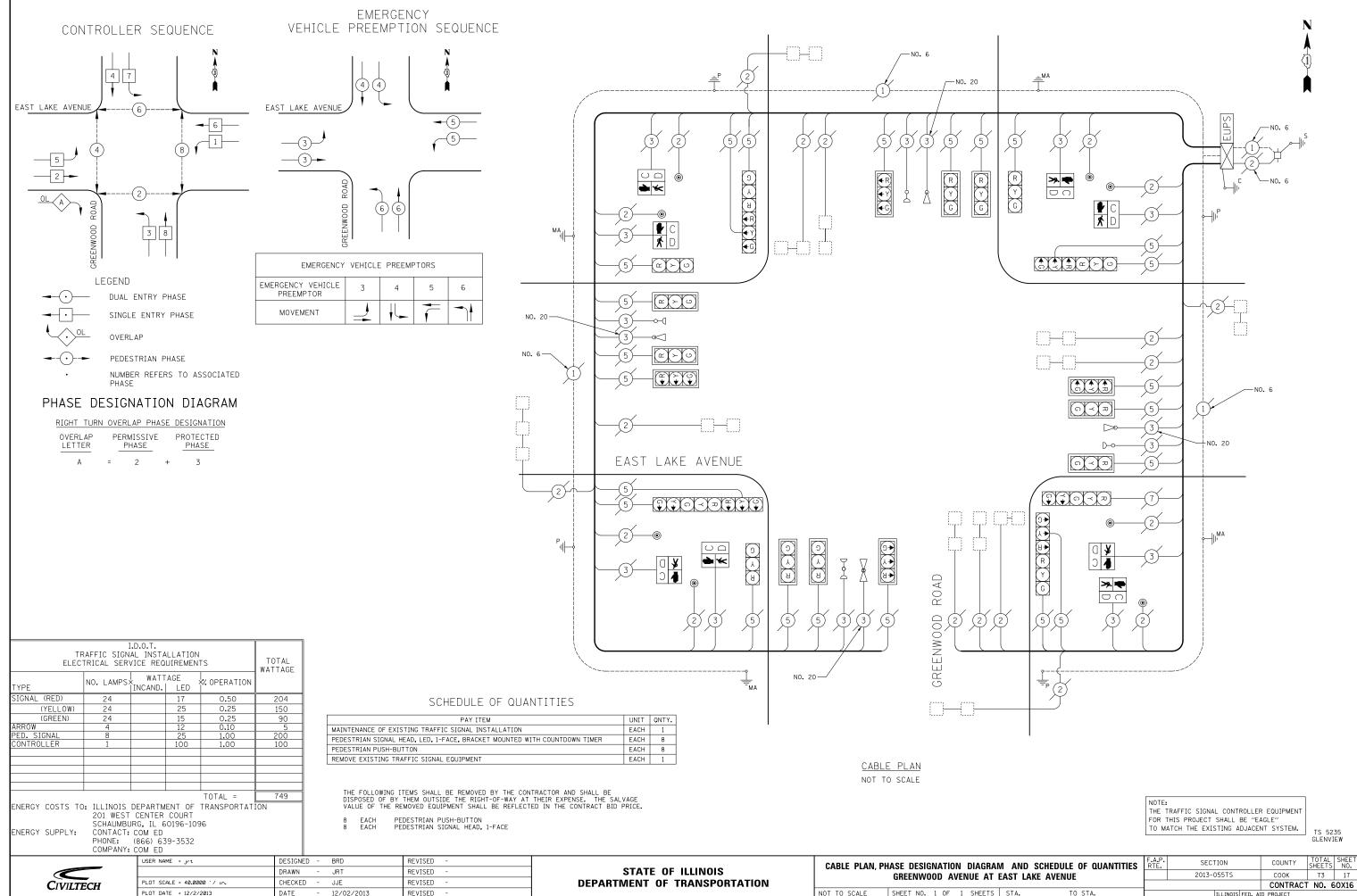
			/	0	5///20//09 ///2			
01	IE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAL DESIGN DETAILS			2013-055TS	СООК	73	15		
VAL DESIGN DETAILS				TS05	CONTRAC	T NO. 6	50X16	
c	C T A	TO STA		550 O				

_ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
)′ (9 . 1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
or equal to	13'-6'' (4.1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
less than m)	11'-0'' (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
or equal to I less than I m)	13'-0'' (4.0 m)	36″ (900mm)	30" (750mm)	12	7(22)
or equal to nd up to m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
or equal to I less than m)	21'-0'' (6.4 m)	42" (1060mm)	36'' (900mm)	16	8(25)
prequalto ndupto (m)	25'-0" (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R	\bowtie		EMERGENCY VEHICLE LIGHT DETECTOR	R	\approx	-	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			1
AILROAD CONTROL CABINET			R	CONFIRMATION BEACON	Ro-J	0()	•••			,	
OMMUNICATIONS CABINET	C C R	ECC	СС		R		5	COAXIAL CABLE		— <u> </u>	—©—
ASTER CONTROLLER		EMC	MC	HANDHOLE							
ASTER MASTER CONTROLLER	5	EMMC	MMC	HEAVY DUTY HANDHOLE	R	Н	Н	VENDOR CABLE FOR CAMERA		— <u>v</u>	—(V)—
NINTERRUPTIBLE POWER SUPPLY	UPS	EUPS	UPS	DOUBLE HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		— <u>ē</u> —	-6-
ERVICE INSTALLATION, P) POLE OR (G) GROUND MOUNT	-0- ^R		- -	JUNCTION BOX GALVANIZED STEEL CONDUIT	R	•	0	FIBER OPTIC CABLE NO. 62.5/125, MM12F		—(12F)—	
ELEPHONE CONNECTION) POLE OR (G) GROUND MOUNT	RT	P T	P T	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	_R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F)	24F)
TEEL MAST ARM ASSEMBLY AND POLE	R	0	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125,			
UMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	(NUMBER OF FIBERS & TYPE TO BE		-\$	
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH LUMINAIRE	RX	0-¤	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	NOTED ON PLANS) GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		C III	°₀⊫⊷
TEEL COMBINATION MAST ARM SSEMBLY AND POLE WITH PTZ CAMERA		(●	INTERSECTION ITEM		I	IP	OR (S) SERVICE			- III
IGNAL POST	R	0	•	REMOVE ITEM RELOCATE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
EMPORARY WOOD POLE (CLASS 5 OR ETTER) 45 FOOT (13.7m) MINIMUM	$\stackrel{R}{\otimes}$	\otimes	٢	ABANDON ITEM	Δ			STEEL MAST ARM POLE AND	RMF		
JY WIRE	R	><	\succ	12" (300mm) TRAFFIC SIGNAL SECTION		R	R	FOUNDATION TO BE REMOVED	BMF		
GNAL HEAD			-	12'' (300mm) RED WITH 8'' (200mm)		R		FOUNDATION TO BE REMOVED	0		
GNAL HEAD CONSTRUCTION STAGES JMBERS INDICATE THE CONSTRUCTION STAGE)			→ ²	YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O−¤────		
GNAL HEAD WITH BACKPLATE	R +⊅	+ >	+►			R	R	FOUNDATION TO BE REMOVED			
GNAL HEAD OPTICALLY PROGRAMMED		-[>''P''	→ "P"	SIGNAL FACE		G T T T T T T T T T T T T T T T T T T T	G ◀ Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
LASHER INSTALLATION 5 DENOTES SOLAR POWER)	0-₩'F''	O-1⊃"F"	• - •"F"			€ €	€G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
EDESTRIAN SIGNAL HEAD	R -	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
EDESTRIAN PUSHBUTTON DETECTOR	®	۲	۲	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			Y G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	OR	[<u>P]</u>	
CCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R @ aps	@APS	APS			(+ Y) (+ C) ('P''	← G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		[==• [₽₽] [==-]	
LUMINATED SIGN NO LEFT TURN''	R	\$	$\textcircled{\textbf{S}}$	12" (300mm) PEDESTRIAN SIGNAL HEAD		₩ ₩	"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT PREFORMED INTERSECTION AND SAMPLING	OR		
LLUMINATED SIGN	R	\bigcirc		WALK/DON'T WALK SYMBOL		Ŵ		(SYSTEM) DETECTOR			PIS
10 RIGHT TURN''				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		iPSi	P S
ETECTOR LOOP, TYPE I		L_l		12" (300mm) PEDESTRIAN SIGNAL HEAD							
REFORMED DETECTOR LOOP	D	۹−−۹ P ۹−−₽	Ρ	INTERNATIONAL SYMBOL, SOLID			Ŕ	RAILROAD	SYMB	DLS	
CROWAVE VEHICLE SENSOR	R MJ			PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C C D	₽ C ★ D			EXISTING	PROPOSED
DEO DETECTION CAMERA	R VJ		\mathbf{V}	RADIO INTERCONNECT				RAILROAD CONTROL CABINET			
IDEO DETECTION ZONE				RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM		X OX X X	Xex X
AN, TILT, ZOOM CAMERA	R PT	PTA	PT	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		(5)		FLASHING SIGNAL		XoX	XoX
IRELESS DETECTOR SENSOR	RW	(W)	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED		\sim		CROSSING GATE		XoX >	XOX
IRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			(1)	CROSSBUCK		¥	*
USER NAME = jrt		ESIGNED - DAG/BCK RAWN - BCK	REVISED - REVISED -	STATE	OF ILLINO	s			F.A.P. RTE.	SECTION 2013-055TS	COUNTY TOTAL SHEETS
CIVILTECH PLOT SCALE = 100.0000 ' / PLOT DATE = 12/2/2013	1 n. Cł	HECKED - DAD ATE - 10-28-09	REVISED - REVISED -		OF TRANSP	ORTATION	SCALE: NOT	STANDARD TRAFFIC SIGNAL DESIGN DETAILS NE SHEET NO. 6 OF 6 SHEETS STA. TO STA.	FED, RO	TS-05	CONTRACT NO. 60

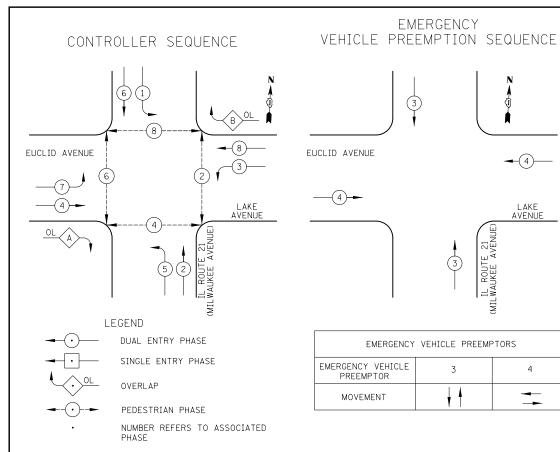
CIVILTECH	USER NAME = jrt PLOT SCALE = 100.0000 '/ in.	DESIGNED - DAG/BCK DRAWN - BCK CHECKED - DAD	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DISTRICT ONE Standard traffic signal di
CIVILIEUI	PLOT DATE = 12/2/2013	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 6 OF 6 SHEETS ST



NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA.

TU UTNO

FED ATD PROJECT



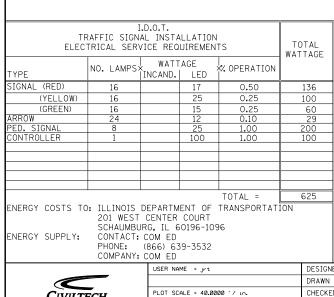
PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	P	ERMISSIVE PHASE		PROTECTED PHASE
А	=	4	+	5
В	=	8	+	1

<u>NOTES</u>

1. REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".



SCHEDULE OF QUANTITIES

-(4)----

LAKE AVENUE

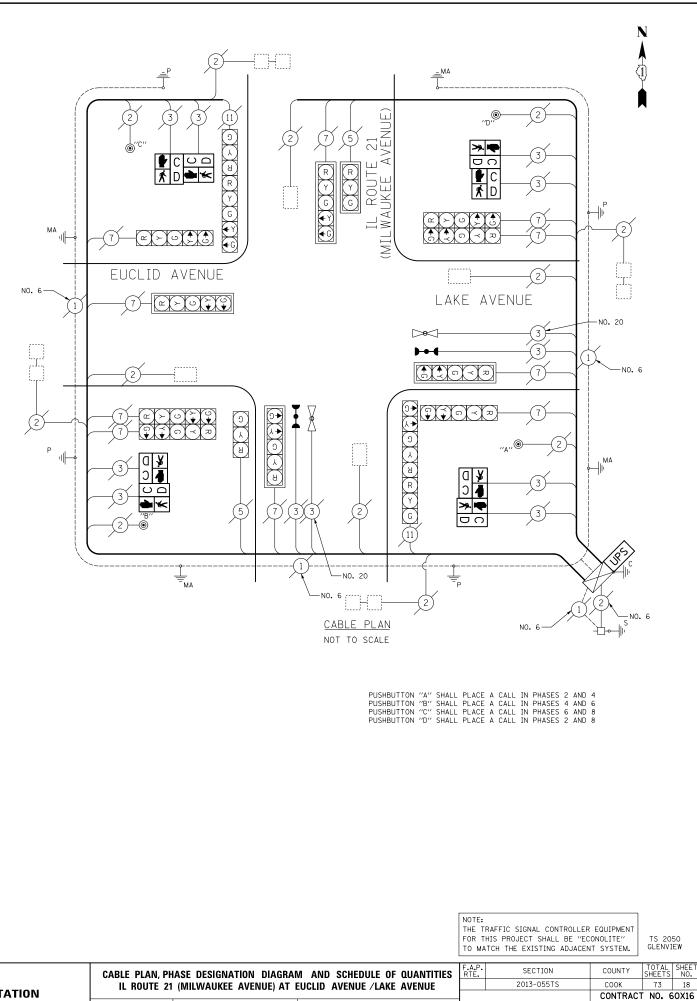
4

-

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

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.

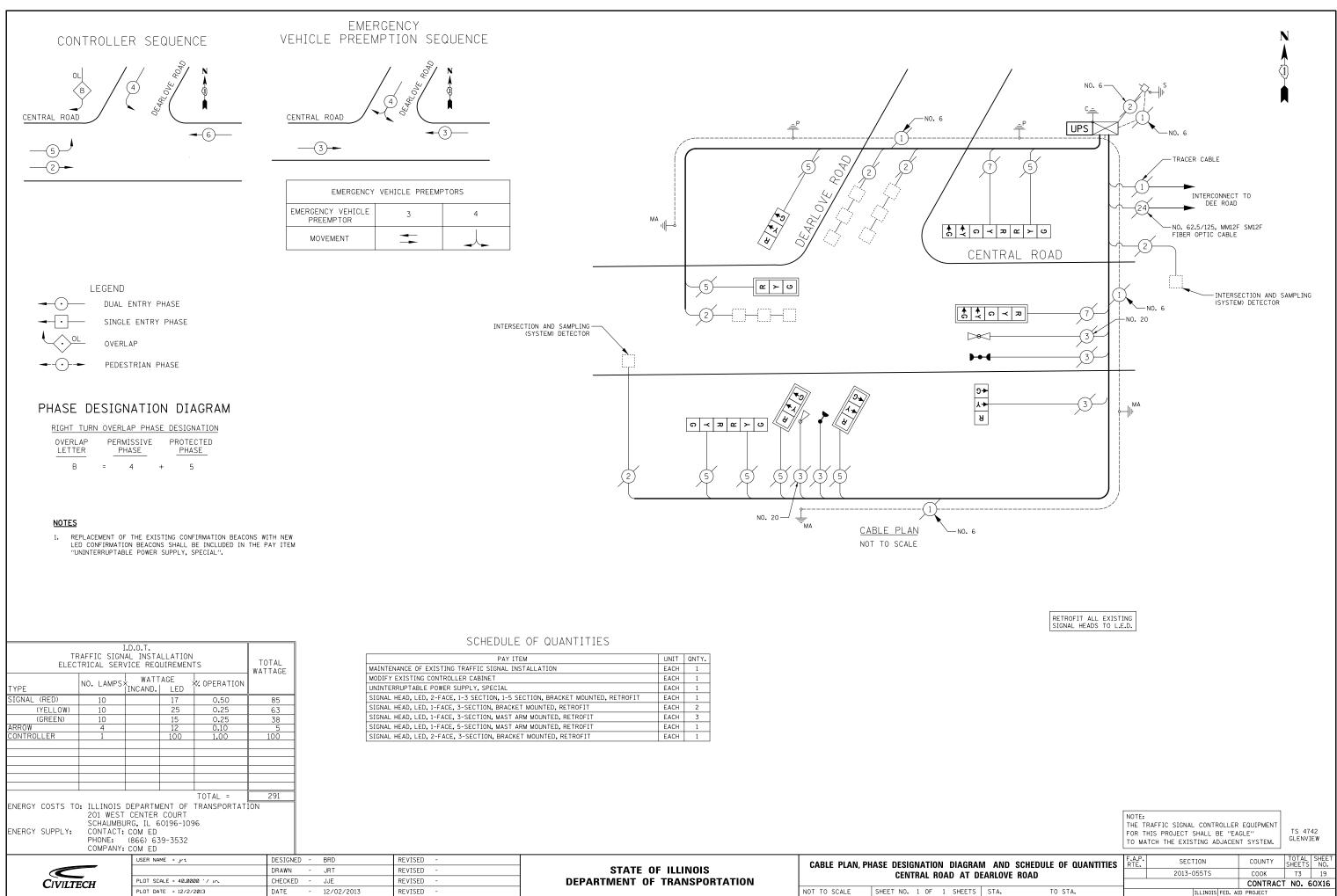
PEDESTRIAN PUSH-BUTTON, NON-LATCHING PEDESTRIAN SIGNAL HEAD, 2-FACE 4 EACH 4 EACH



TO STA.

TULINOIS FED ATD PROJECT

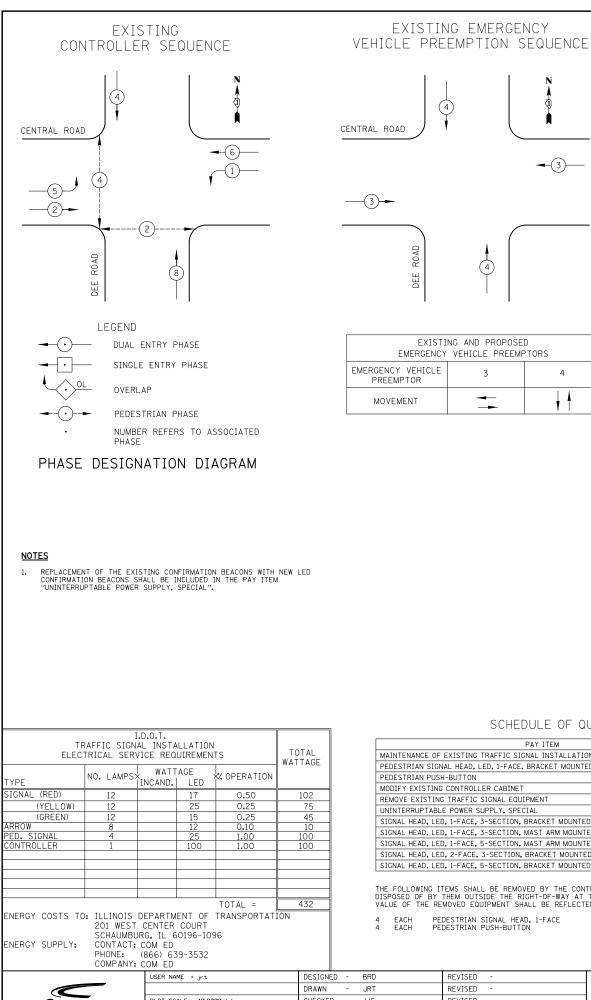
	USER NAME = jrt	DESIGNED - BRD	REVISED -			ASE DESIGNATION DIAGRAM AND
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS		I (MILWAUKEE AVENUE) AT EUCLID A
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		I (MILWAOKLE AVENOL) AT LOCEID A
Citizi zen	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS STA.

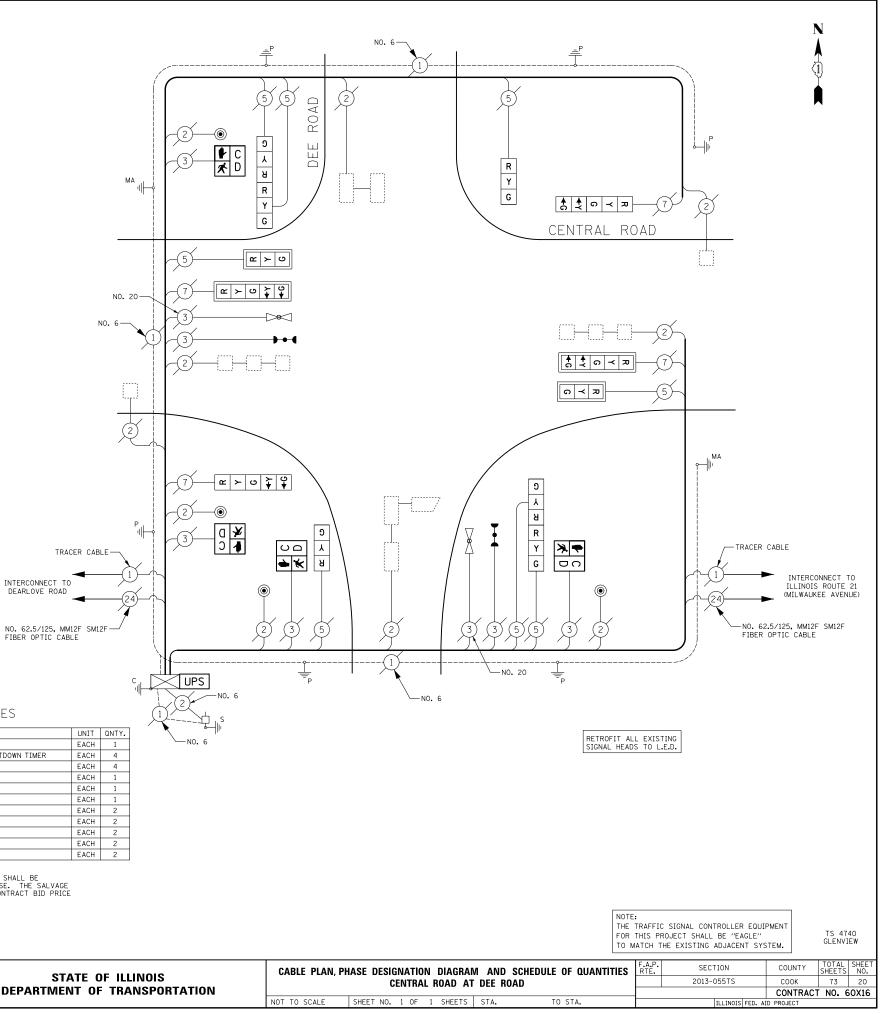


ELEC.	TOTA WATTA					
TYPE	NO. LAMPS×	WATT INCAND.		% OPERATION		
SIGNAL (RED)	10		17	0.50	8	5
(YELLOW)	10		25	0.25	6	3
(GREEN)	10		15	0.25	3	8
ARROW	4		12	0.10		5
CONTROLLER	1		100	1.00	10	0
	1 1			TOTAL =	29	91
ENERGY COSTS TO	: ILLINOIS 201 WEST SCHAUMBU	CENTER	COURT		ON	
ENERGY SUPPLY:		COM ED (866) 63				
		USER NA	ME = jrt		D	ESIGNE
					D	RAWN
	-					

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

	USER NAME = jrt	DESIGNED - BRD	REVISED -			HASE DESIGNATION DIAGRAM
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	GADLE FLAN, Fr	CENTRAL ROAD AT DE
CIVILTECH	PLOT SCALE = 40.0000 '/ in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		CENTRAL ROAD AT DE
ervieren	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS





SCHEDULE OF QUANTITIES

-(3)-

4

1

(4)

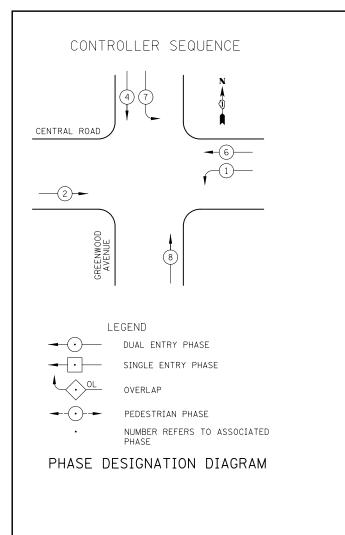
3

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

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

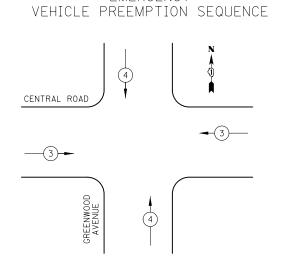
PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN PUSH-BUTTON

	USER NAME = jrt	DESIGNED - BRD	REVISED -			HASE DESIGNATION DIAGRAM
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	GADLE FLAN, FI	CENTRAL ROAD AT
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		CENTRAL ROAD AT
Orvibildan	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS



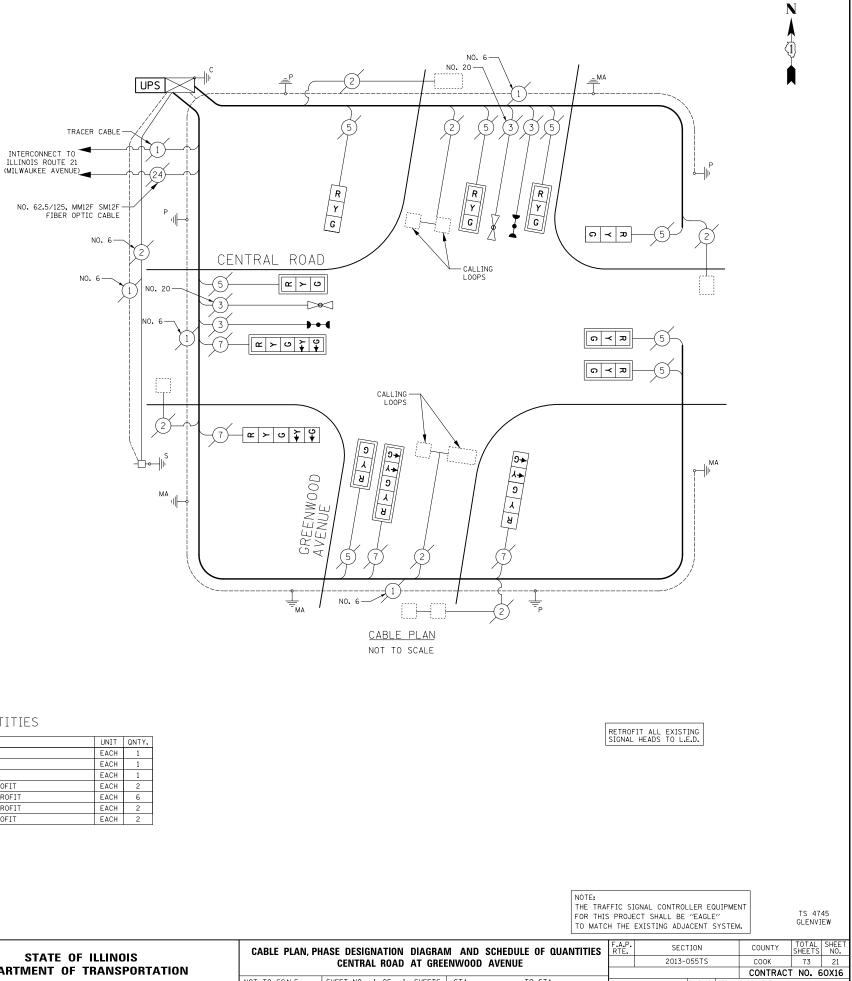
<u>NOTES</u>

REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL". 1.



EMERGENCY

PROPOSED EMERG	GENCY VEHICLE P	REEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↓ ↑



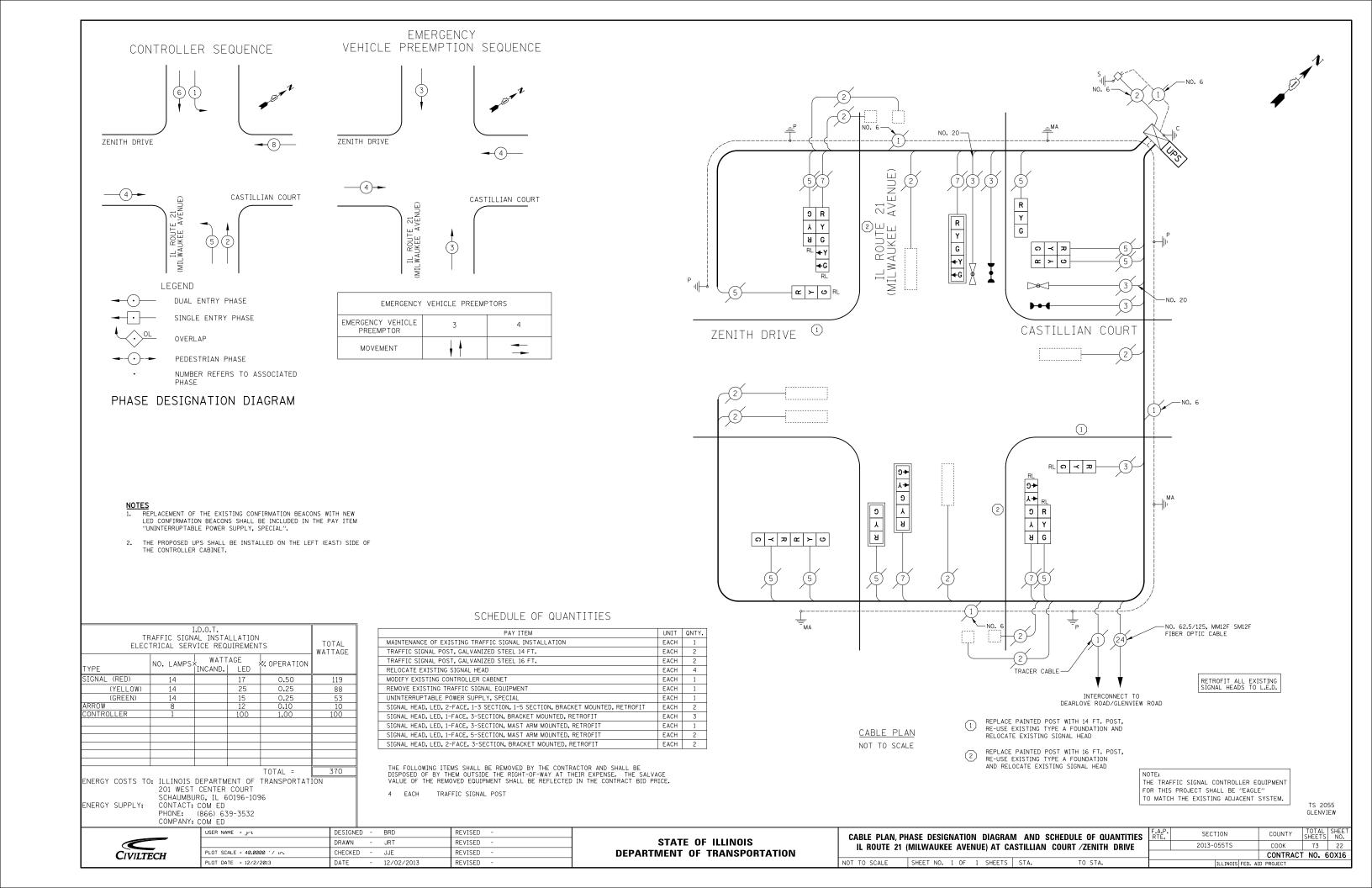
	I RAFFIC SIGN TRICAL SER'				TOTAL
TYPE	NO. LAMPS:	WATT	AGE LED	. OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.10	10
CONTROLLER	1		100	1.00	100
				TOTAL =	332
ENERGY COSTS TO	201 WEST SCHAUMBL	CENTER	COURT		ION
ENERGY SUPPLY:	CONTACT: PHONE: COMPANY:	COM ED (866) 63			
		USER NA	ME = jrt		DESIGN
C					DRAWN
Court	ECU	PLOT SC	ALE = 40.00	00 ′ / In.	CHECKE

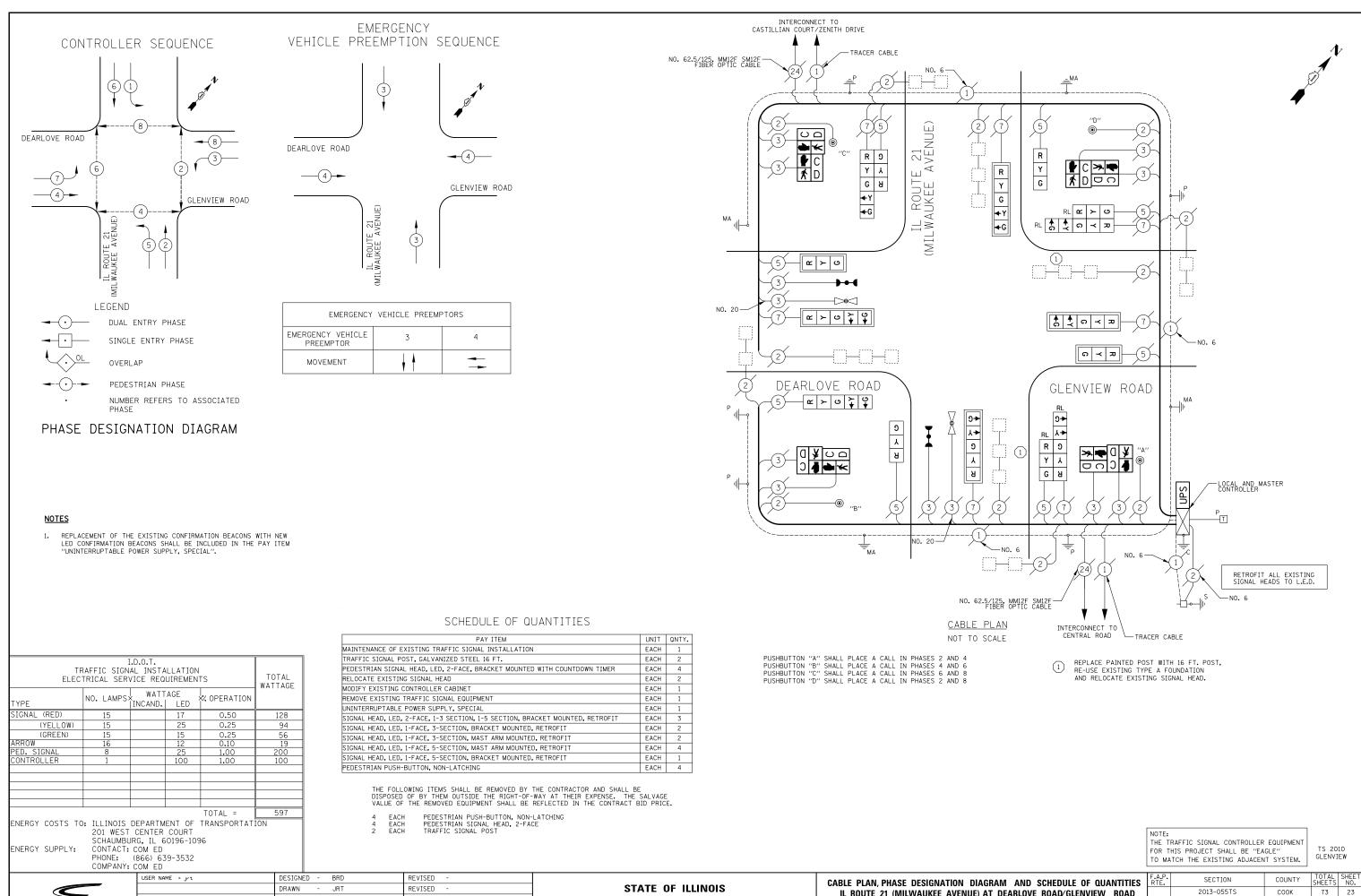
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2

	USER NAME = jrt	DESIGNED -	BRD	REVISED -			HASE DESIGNATION		<u>,</u>
		DRAWN -	JRT	REVISED -	STATE OF ILLINOIS	UADLE FLAN, FR	CENTRAL ROAD		
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED -	JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		CLIVINAL NUAD		14
ervizizen	PLOT DATE = 12/2/2013	DATE -	12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF	1 SHEETS	

STA. TO STA. ILLINOIS FED. AID PROJECT

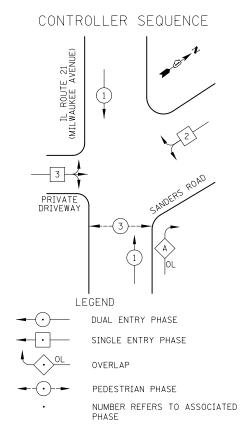




	I RAFFIC SIGNA TRICAL SERV				TOTAL WATTAG
TYPE	NO. LAMPS	WATT Incand.		COPERATION	WATTAO
SIGNAL (RED)	15		17	0.50	128
(YELLOW)	15		25	0.25	94
(GREEN)	15		15	0,25	56
ARROW	16		12	0.10	19
PED. SIGNAL	8		25 100	1.00	200
CUNTROLLER	1		100	1.00	100
				TOTAL =	597
ENERGY COSTS TO	201 WEST SCHAUMBU CONTACT: PHONE:	CENTER RG, IL 6 COM ED (866) 63	COURT 0196-109		UN
	COMPANY:	COM ED			
	COMPANY:		ME = jrt		DES
	COMPANY:		ME = jrt		
Civit	_	USER NA	ME = jrt ALE = 40.00	00 ′ / 1n.	DES DRA CHE

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
RELOCATE EXISTING SIGNAL HEAD	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	4

	USER NAME = jrt	DESIGNED - BRD	REVISED -		CABLE PLAN.	PHASE DESIGNATION DIAGRAM AND SC	HEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS		21 (MILWAUKEE AVENUE) AT DEARLOVE R			2013-055TS	COOK	73	23
CIVILTECH	PLOT SCALE = 40.0000 ' / 10.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION				_		CONTRAC	CT NO. 6	60X16
	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		-



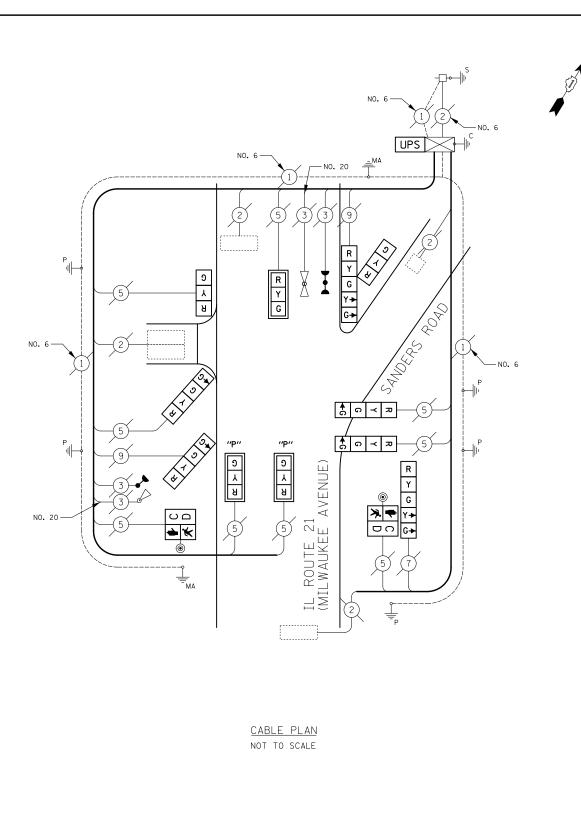
PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	Ρ	ERMISSIVE 		PROTECTED PHASE
А	=	1	+	2

EMERG Vehicle preemp	
IL ROUTE 21 (MILWAUKEE AVENUE)	* A
PRIVATE DRIVEWAY	SUNDERS ROAD

EMERGENCY	VEHICLE PREEMF	TORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	/



<u>NOTES</u>

REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS TOTAL WATTAGE NO. LAMPS | WATTAGE X OPERATION TYPE SIGNAL (RED) 0.50 0.25 17 94 11 (YELLOW) (GREEN) 25 69 56 0.25 15 ARROW ED. SIGNAL 1.00 100 1.00 100 374 TOTAL = ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT

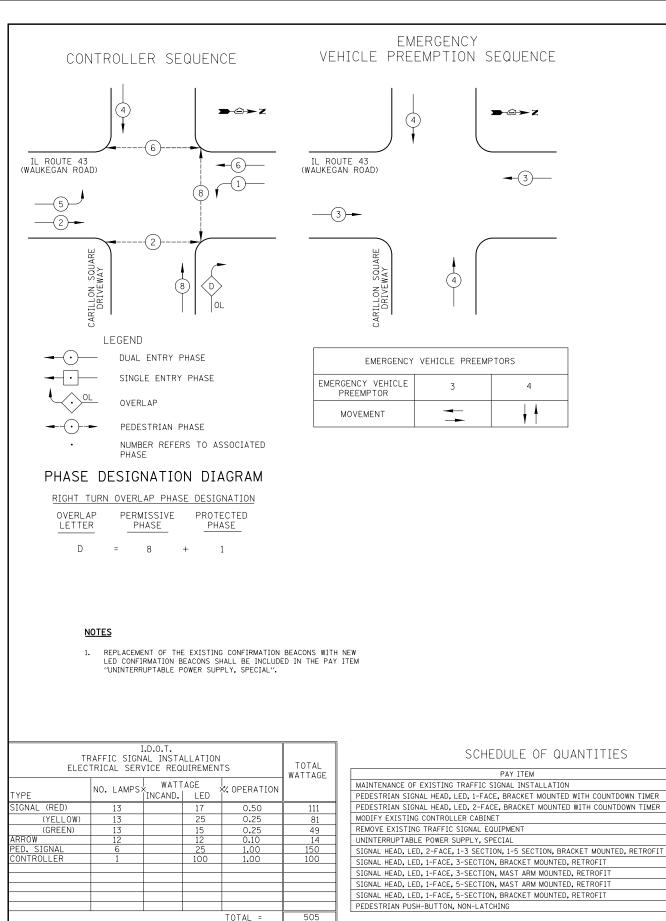
SCHEDULE OF QUANTITIES

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

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

EACH	SIGNAL	HEAD,	1-FACE,	3-SECTION
EACH .	STGNAL	HE∆D	1-EACE	4-SECTION

	PLOT DATE = 12/2/2013	DATE	- 12/02/2013	REVISED -		NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED.	AID PROJECT	
CIVILTE	PLOT SCALE = 40.0000 ' / in.	CHECKED) - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT N	0. 60X16
			- JRT	REVISED -	STATE OF ILLINOIS	IL ROUTE 21 (MILWAUKEE AVENUE) AT SANDERS ROAD	2013-055TS	COOK 7	73 24
	USER NAME = jrt		D - BRD	REVISED -		CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES	RTE, SECTION	COUNTY SHE	EETS NO.
ENERGY SUPPLY:	CONTACT: COM ED PHONE: (866) 639-3532 COMPANY: COM ED			2 EACH PEDESTRIAN PUSH-BUTTON			FOR THIS PROJECT SHALL BE " TO MATCH THE EXISTING ADJAC	CENT SYSTEM.	S 2045 LENVIEW
	201 WEST CENTER COURT Schaumburg, IL 60196-1096			1 EACH SIGNAL HEAD, 1-FACE, 5-SECT 1 EACH SIGNAL HEAD, 2-FACE, 1-3 SE 2 EACH PEDESTRIAN SIGNAL HEAD, 1-F	CTION, 1-5 SECTION		NOTE: THE TRAFFIC SIGNAL CONTROLL	ER EQUIPMENT	
ENERGY COSTS TO:	ILLINOIS DEPARTMENT OF TRANSPORTATI)N		4 EACH SIGNAL HEAD, 1-FACE, 3-SECT 4 EACH SIGNAL HEAD, 1-FACE, 4-SECT	ION				

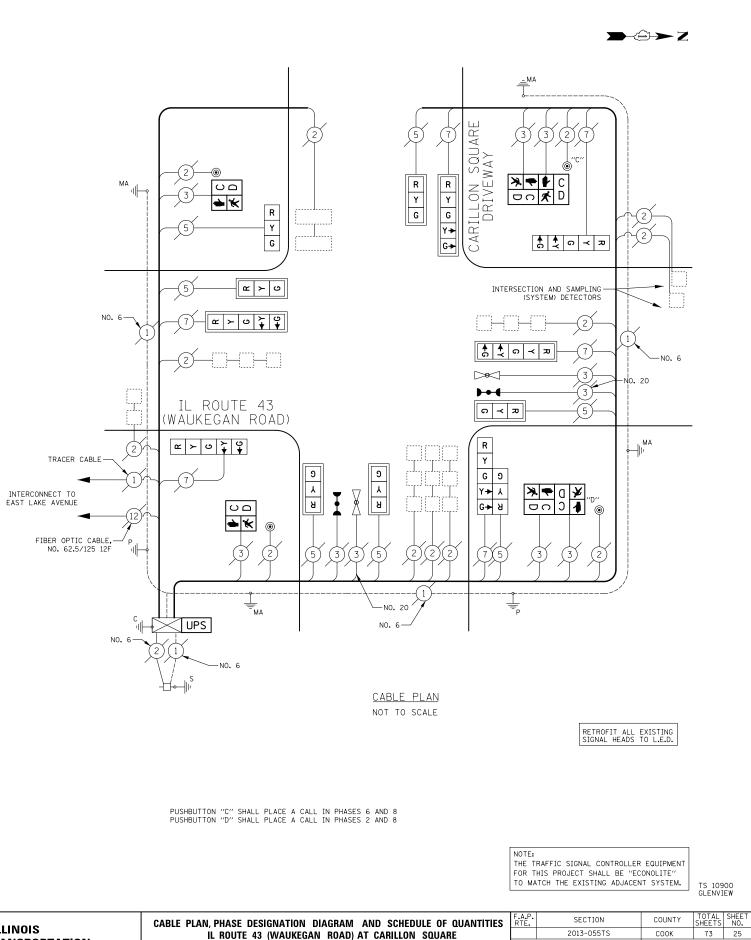


ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTACT: COM ED

ENERGY SUPPLY:

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096



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 FOULTPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

FACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN SIGNAL HEAD, 2-FACE EACH EACH 2

PHONE:	(866) 639-3532 IY: COM ED		PEDESTRIAN PUSH-BUTTUN, NUN-LATCHING PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN SIGNAL HEAD, 2-FACE									GLENVIEW
	USER NAME = jrt	DESIGNED - BRD	REVISED -			PHASE DESIGNATION DIAGR	AM AND SCH	HEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS		L ROUTE 43 (WAUKEGAN RO				2013-055TS	СООК	73 25
CIVILTECH	PLOT SCALE = 40.0000 '/ in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		E NOOTE 43 (WAOKEGAN NO		EON DECANE			CONTRAC	CT NO. 60X16
CIVILIEU	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEET	S STA.	TO STA.		ILLINOIS FEE	ILLINOIS FED. AID PROJECT	

UNIT QNTY.

EACH 1

EACH 2

EACH 2

EACH 1

EACH 1

EACH 1

EACH 1

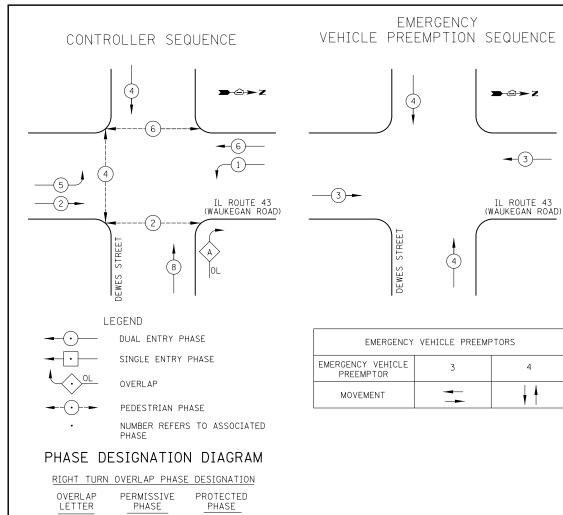
EACH 1

EACH 5

EACH 3

EACH 2

EACH 4





<u>NOTES</u>

1. REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".

	I. RAFFIC SIGNA TRICAL SERV					DTAL TAGE		MA
TYPE	NO. LAMPS×	WATT INCAND.	AGE ; LED ;	. OPERATION		TAOL		SI SI
SIGNAL (RED)	16		17	0.50		136		SI
(YELLOW)	16		25	0.25		100		TF
(GREEN)	16		15	0.25		60		мс
ARROW	12		12	0.10		14		RE
PED. SIGNAL CONTROLLER	6		25 100	1.00		150 100		UN
CONTROLLER	1		100	1.00		100		
				TOTAL =		560		
ENERGY COSTS TO	201 WEST			TRANSPORTAT	ION			
ENERGY SUPPLY:	SCHAUMBU CONTACT:	RG, IL 6	0196-109	96				
	COMPANY:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		USER NA	ME = jrt			DESIGNED	-	BRD
C						DRAWN	-	JRT
CIVILTI	ЕСН	PLOT SC	ALE = 40.00	00 ′ / ın.		CHECKED	-	JJE
C , (12)1		PLOT DA	TE = 12/2/	2013		DATE	-	12/02

SCHEDULE OF QUANTITIES

4

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

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.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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

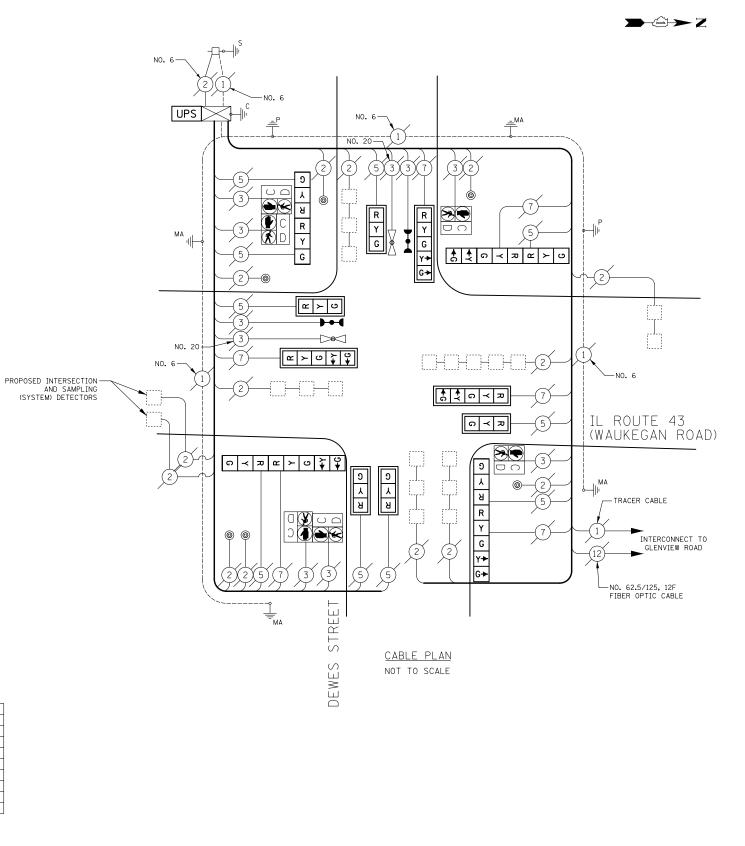
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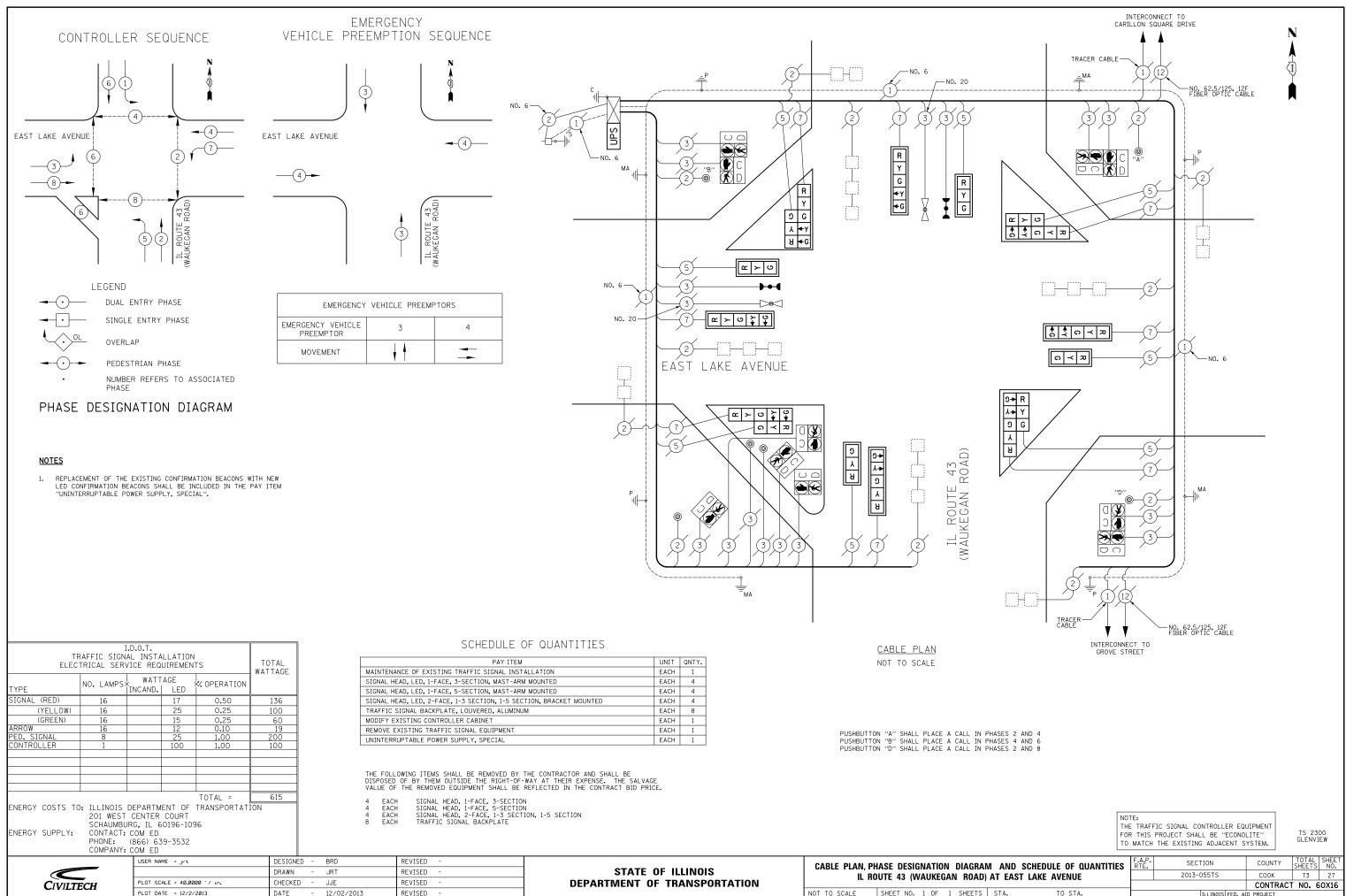
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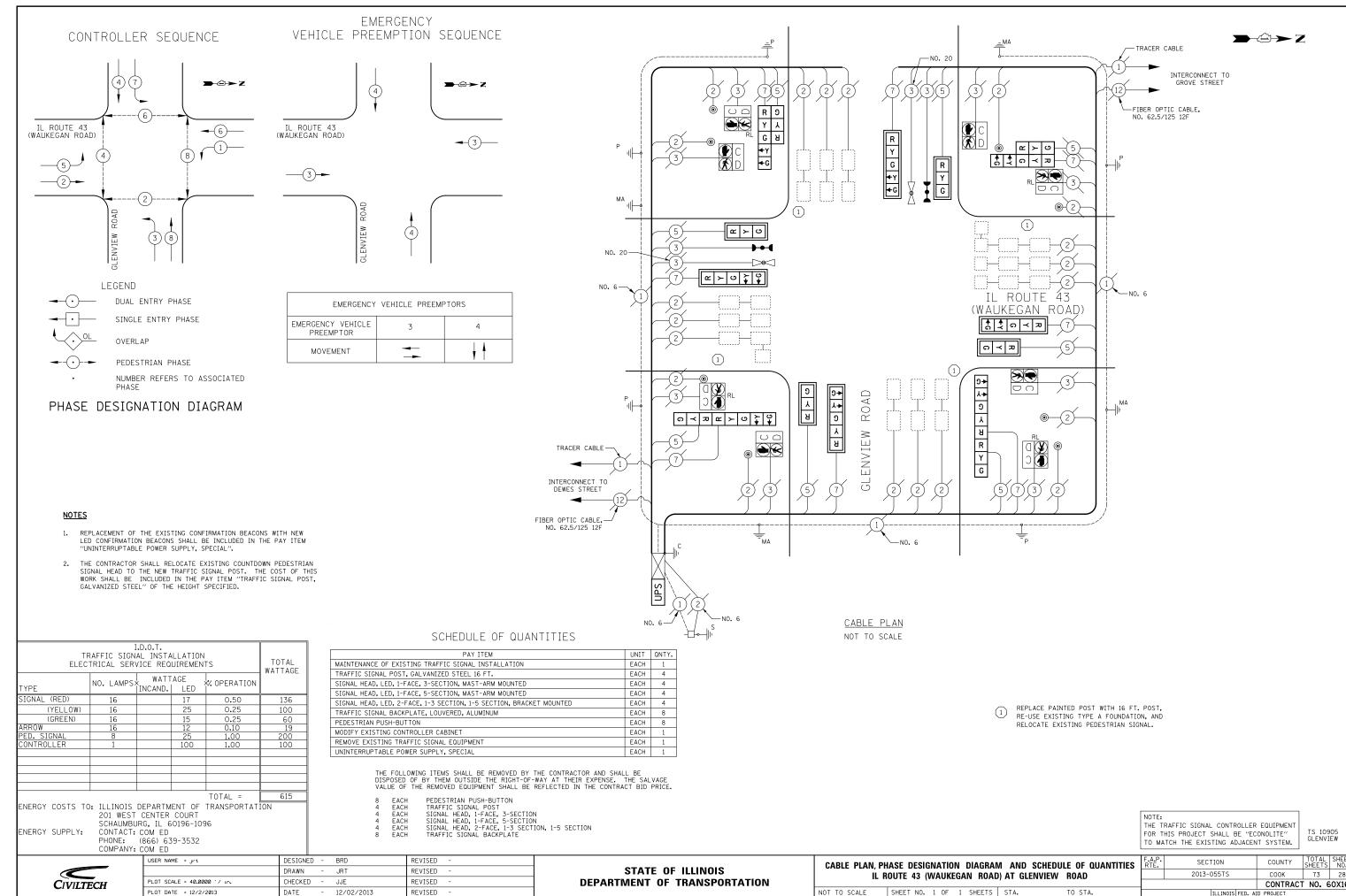
- 12/02/2013



	FOR T	RAFFIC SIGNAL CONTROLLER HIS PROJECT SHALL BE "EC TCH THE EXISTING ADJACEN	ONOLITE"	TS 10880 GLENVIEW	
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES	F.A.P. RTE	SECTION	COUNTY	TOTAL SH SHEETS N	IEET 10.
IL ROUTE 43 (WAUKEGAN ROAD) AT DEWES STREET		2013-055TS	СООК	73 2	26
	1		CONTRAC	T NO. 60X	:16
NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

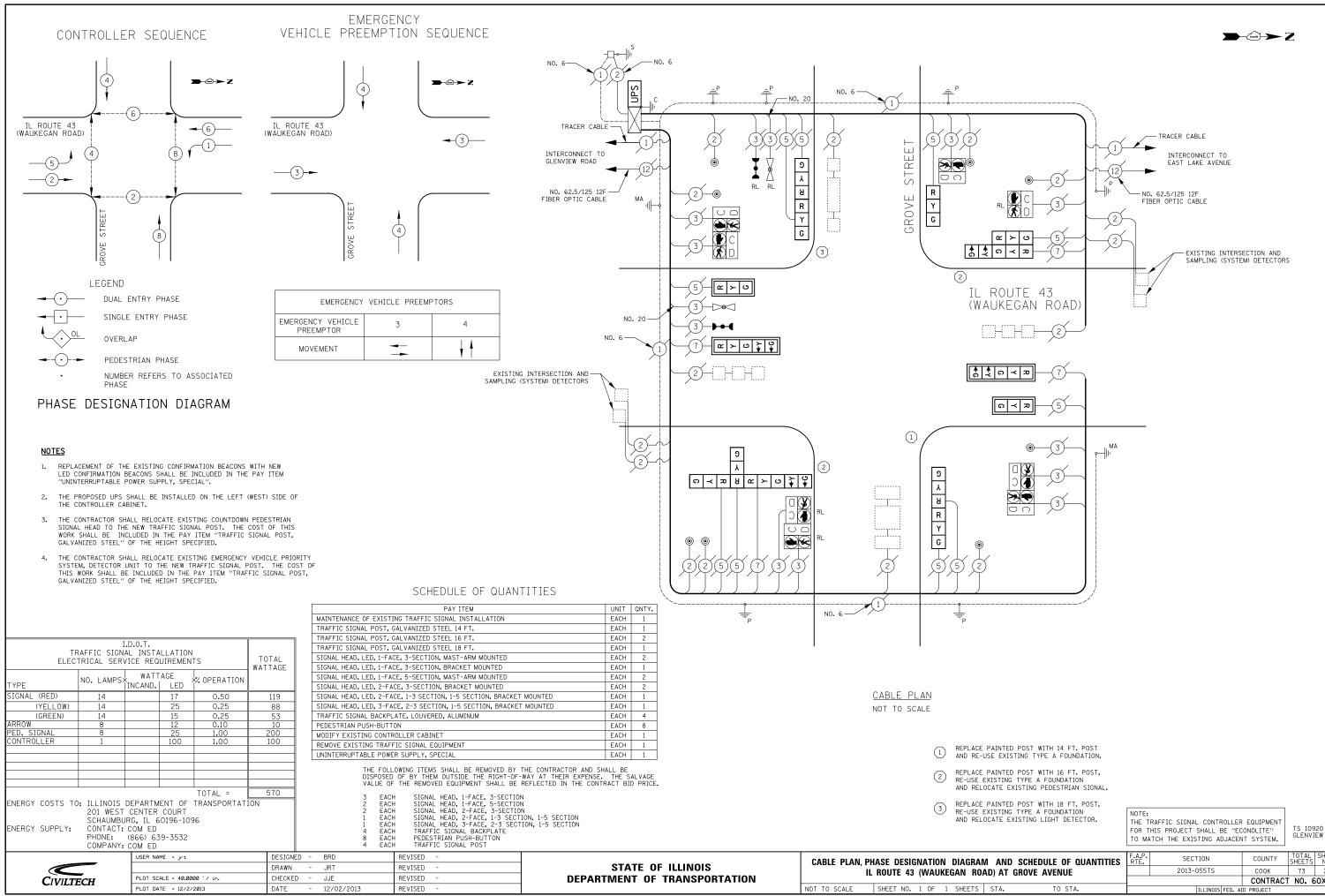


NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA.

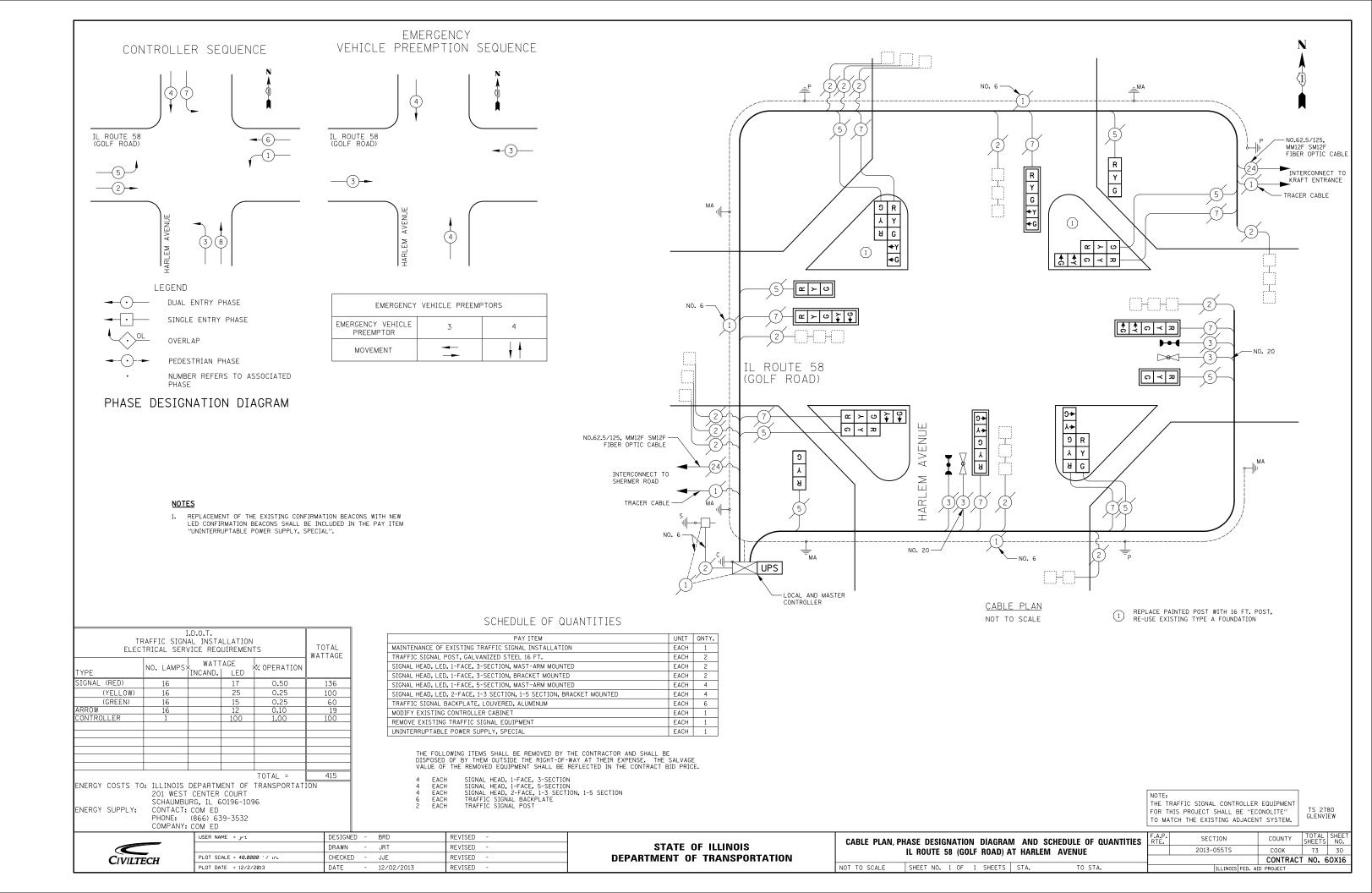


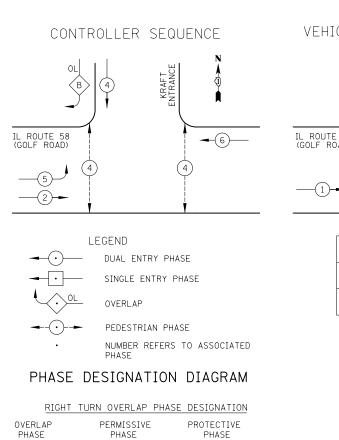
NOT		
FOF	E TRAFFIC SIGNAL CONTROLLER EQUIPMENT R THIS PROJECT SHALL BE "ECONOLITE"	
ТО	MATCH THE EXISTING ADJACENT SYSTEM.	

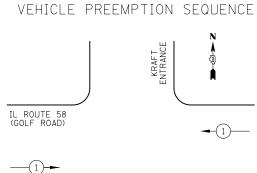
TOTAL SHEE SHEETS NO. 73 28 CONTRACT NO. 60X16 TO STA. TUL INOT FED ATD BRO IEC



TOTAL SHEE SHEETS NO. 73 29 CONTRACT NO. 60X16



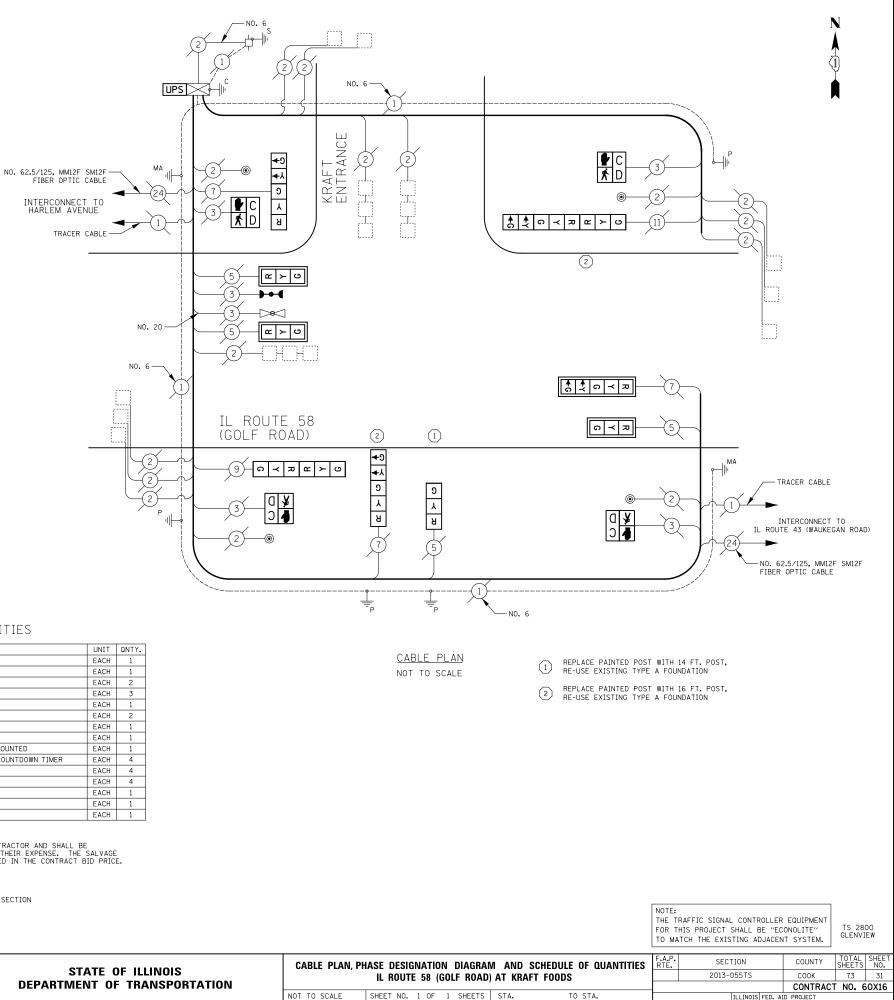




EMERGENCY

EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	1
MOVEMENT	



<u>NOTES</u>

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4

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

NO. LAMPS INCAND. LED

В

IYPE SIGNAL (RED)

ARROW PED. SIGNAL

(YELLOW)

(GREEN)

REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL". 1.

17

25

15

100

+

5

TOTAL WATTAGE

94 67

X. OPERATION

0.50 0.25

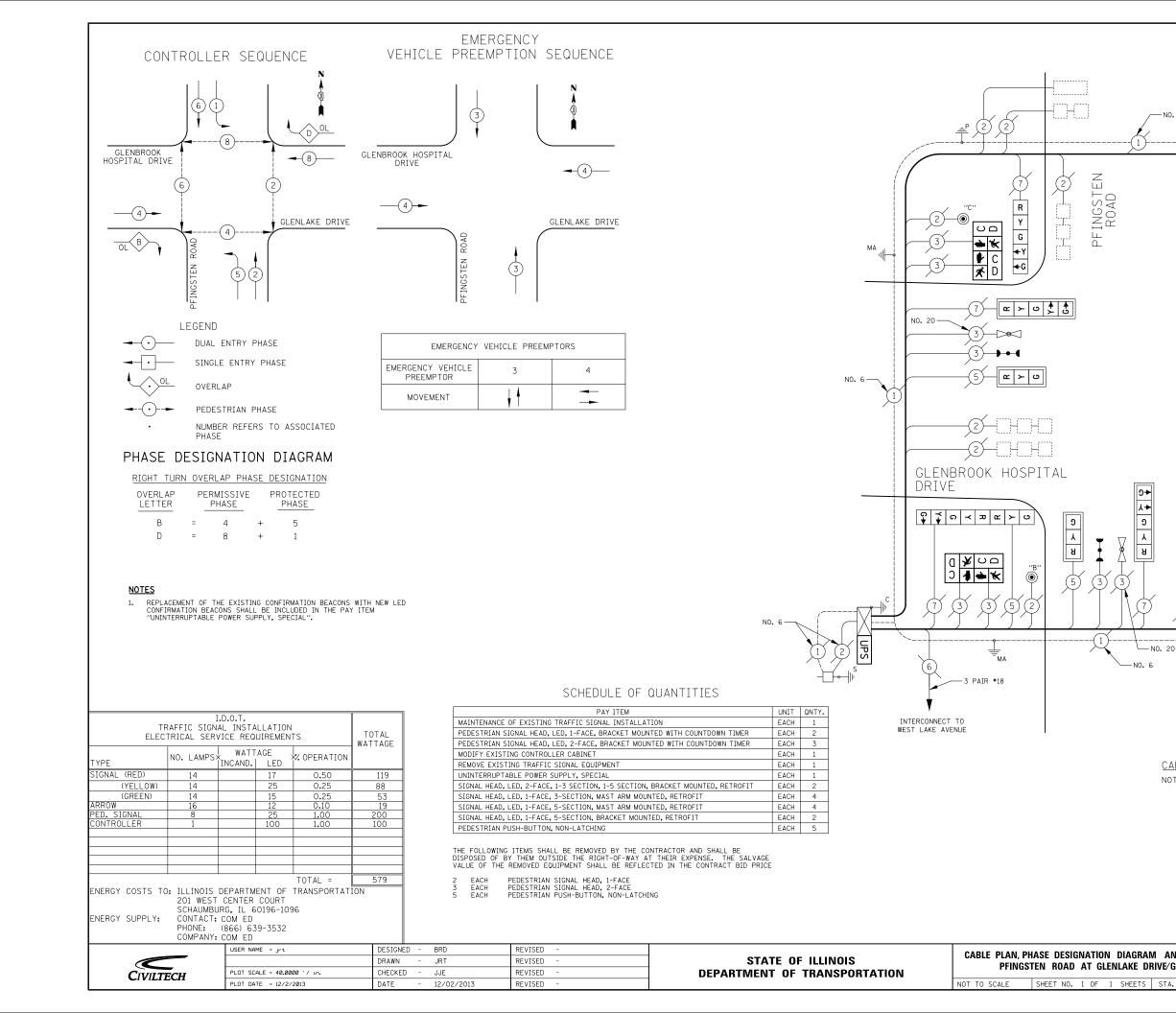
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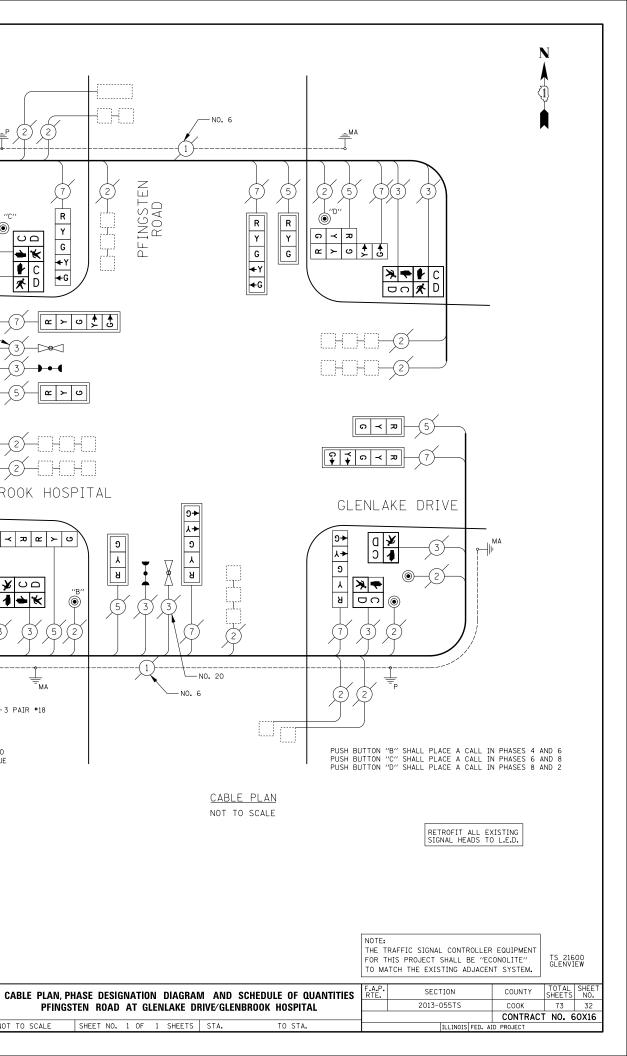
1.00

SCHEDULE OF QUANTITIES

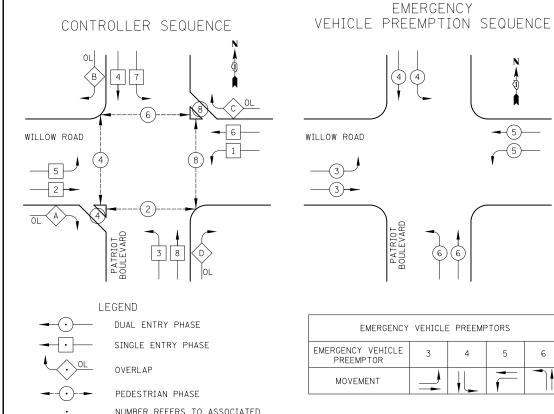
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

201 WE SCHAUM ENERGY SUPPLY: CONTAC PHONE:	TOTAL = TOTAL = TOTAL = TIS DEPARTMENT OF TRANSPORTATIO ST CENTER COURT //BURG, IL 60196-1096 T: COM ED (866) 639-3532 YY: COM ED	DISPOSE VALUE C 4 EAU 412 1 EAU	DF THE REMOVED EQUIPMENT SHALL BE SIGNAL HEAD, 1-FACE, 3-SECTIO SIGNAL HEAD, 1-FACE, 5-SECTIO SIGNAL HEAD, 2-FACE, 3-SECTIO SIGNAL HEAD, 2-FACE, 1-3 SECT CH TRAFFIC SIGNAL BACKPLATE CH PEDESTRIAN PUSH-BUTTON H PEDESTRIAN SIGNAL HEAD, 1-FA	-WAY AT THEIR EXPENSE. THE SALVAGE REFLECTED IN THE CONTRACT BID PRICE. IN IN IN IN IN ION, 1-5 SECTION		
	USER NAME = jrt	DESIGNED - BRD	REVISED -			
	DRAWN - JRT		REVISED -	STATE OF ILLINOIS	CABLE PLAN, PHASE DES	
CIVILTECH	PLOT SCALE = 40.0000 '/ in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		
CIVILILCII	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -	1	NOT TO SCALE SHEET	





X



NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

PI	ERMISSIVE PHASE		PROTECTED PHASE
=	2	+	3
=	4	+	5
=	6	+	7
=	8	+	1
	Pi = = = =	= 2 = 4 = 6	PHASE = 2 + = 4 + = 6 +

<u>NOTES</u>

REPLACEMENT OF THE EXISTING CONFIRMATION BEACON WITH NEW LED CONFIR SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPE 1.

					1	1		
	I RAFFIC SIGN TRICAL SERV)TAL TAGE		
TYPE	NO. LAMPS>	WATT INCAND.		X OPERATION				
SIGNAL (RED)	22		17	0.50		187		
(YELLOW)	22		25	0.25		138		
(GREEN)	22		15	0.25		83		
ARROW	16		12	0.10		19		MAINT
PED. SIGNAL CONTROLLER	12		25 100	1.00		<u>300</u> 100		PEDES
CONTROLLER	1		100	1.00		100		PEDES
								PEDES
								MODIF
								REMO
								UNINT
				TOTAL =		827		SIGNA
ENERGY COSTS TO				TRANSPORTAT	ION			SIGNA
	201 WEST SCHAUMBU) c				SIGNA
ENERGY SUPPLY:	CONTACT:		0136-103	00				SIGNA
		(866) 63	39-3532					PEDES
	COMPANY:	COM ED						
		USER NA	ME = jrt			DESIGNED	-	BRD
C						DRAWN	-	JRT
CIVILTI	ГСН	PLOT SC	ALE = 40.00	00 ′ / in.		CHECKED	-	JJE
CIVILII		PLOT DA	TE = 12/2/	2013		DATE	-	12/02



PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	10
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	6

REVISED

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REVISED

- 12/02/2013

NO. 62.5/125, MM12F SM12F FIBER OPTIC CABLE INTERCONNECT TO SHERMER ROAD TRACER CABLE MA	$\begin{array}{c} \overset{=}{} \\ 3 \\ 3 \\ 3 \\ \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ 5 \\ 7 \\ \end{array} \\ \begin{array}{c} 2 \\ 2 \\ 2 \\ \end{array} \\ \begin{array}{c} 2 \\ 1 \\ 1 \\ \end{array} \\ \begin{array}{c} 2 \\ 1 \\ 1 \\ \end{array} \\ \begin{array}{c} 2 \\ 1 \\ 1 \\ \end{array} \\ \begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \\ \begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ \end{array} \\ \begin{array}{c} 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	5 5 3 3 +R R +Y G G
NO. 20—	$5 \boxed{\textbf{a} \succ \textbf{o}}$ $5 \boxed{\textbf{a} \succ \textbf{o}}$ $3 \boxed{3}$ $5 \boxed{\textbf{a} \not }$ $5 \boxed{\textbf{a} \not }$	
NO. 6		
NO. 20 NO. 20 3 NO. 20 10 3 10 10 10 10 10 10 10 10 10 10	+0 +A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A 0 0 0<	
UNIT ONTY EACH 1 I COUNTDOWN TIMER EACH 2		

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 PUSHBUTTON, NON-LATCHING 6 EACH

2	EAUR	FEDESIRIAN	SIGNAL	ΠΕΑU,	I-FACE	
2	EACH	PEDESTRIAN	SIGNAL	HEAD.	2-FACE	
2	EACH	PEDESTRIAN	SIGNAL	HEAD,	3-FACE	

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

	NO. 6
RMATION BEACONS PECIAL".	
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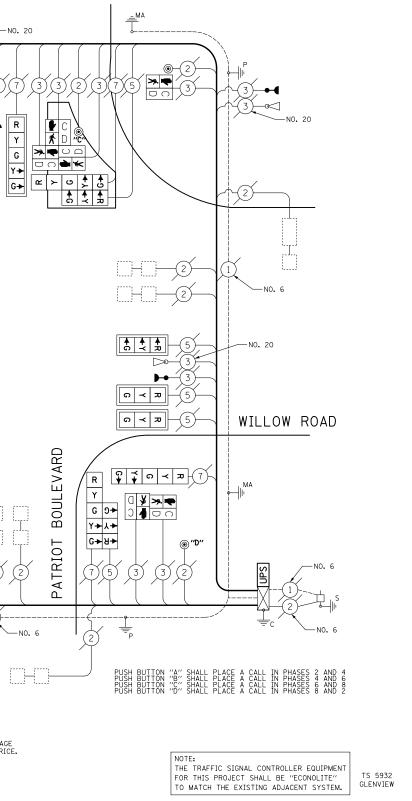
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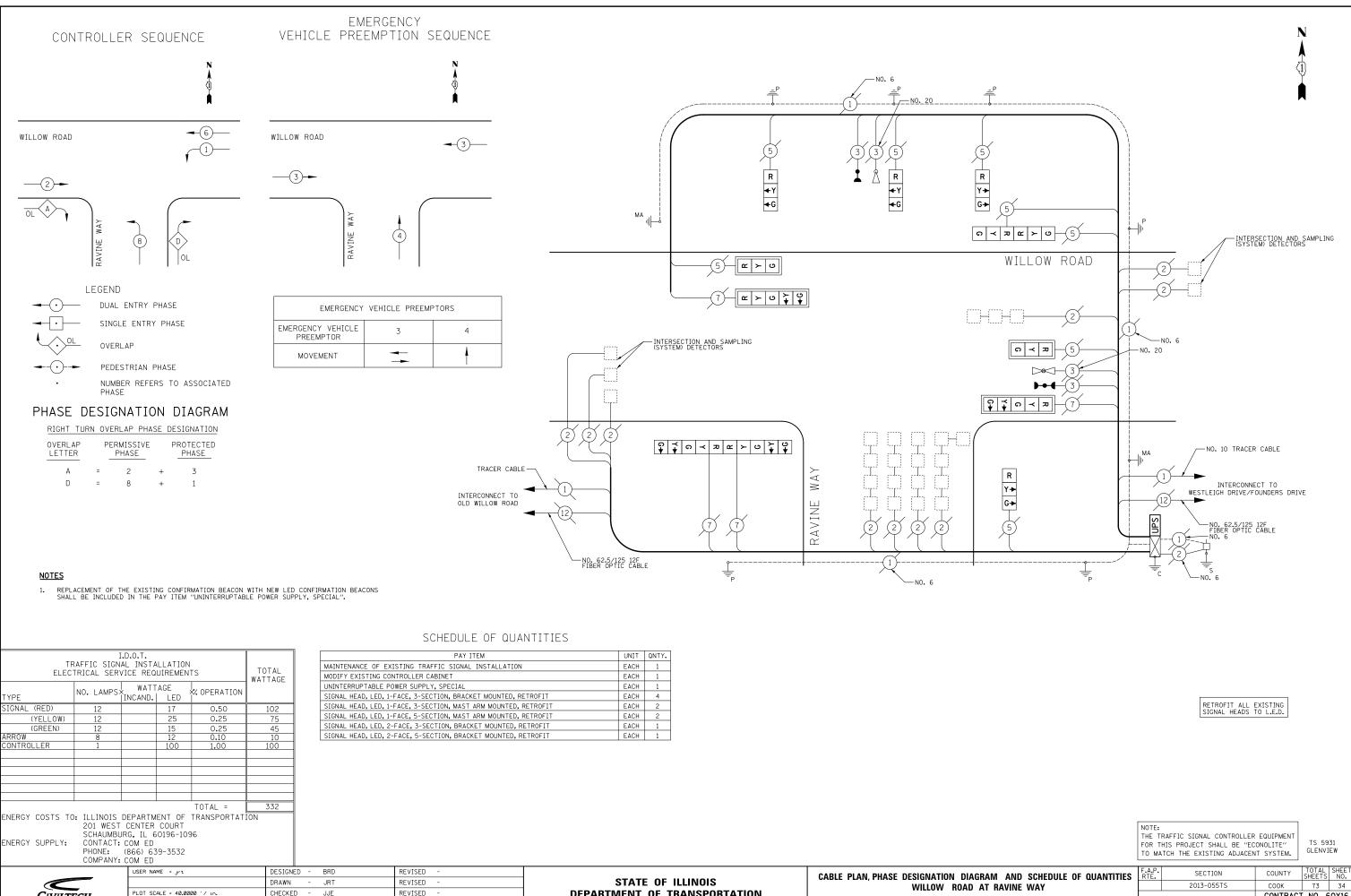
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6



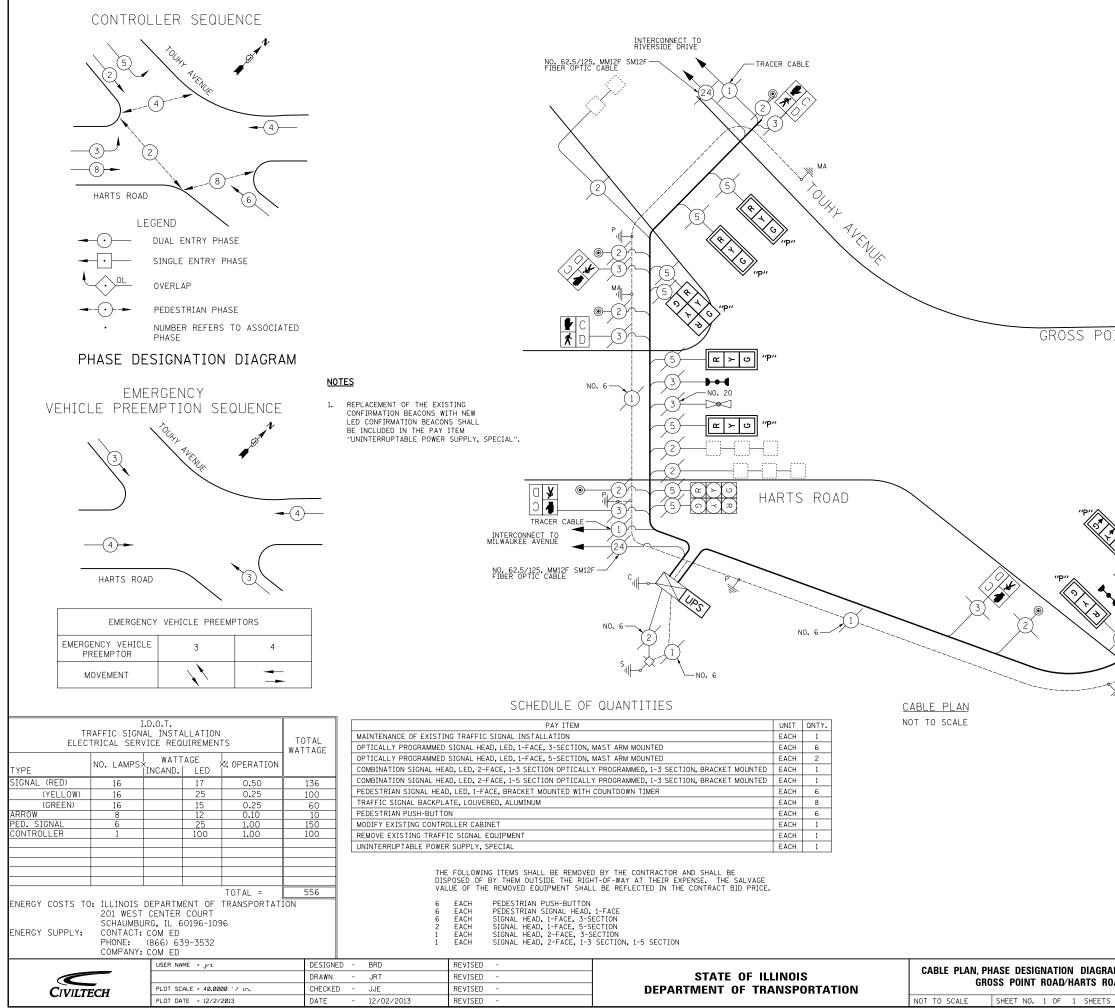


AM AND SCHEDULE OF QUANTITIES TRIOT BOULEVARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			2013-055TS	СООК	73	33	
				CONTRACT	NO. 6	0X16	
5	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

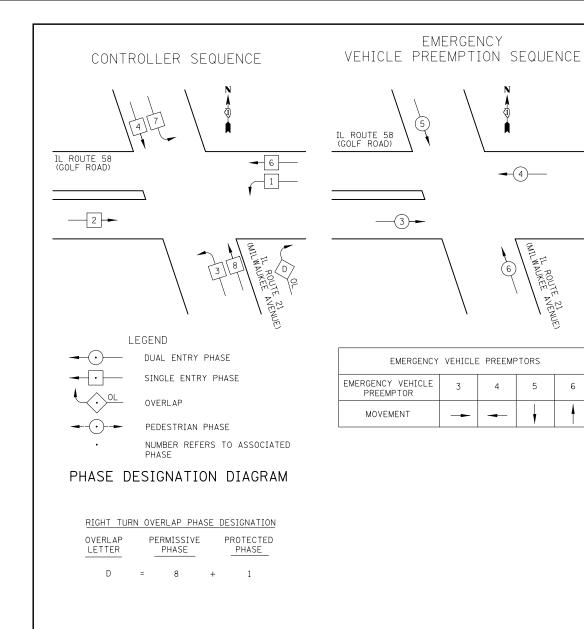


	USER NAME = jrt	DESIGNED - BRD	REVISED -			ASE DESIGNATION DI
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	GADLE FLAN, FR	WILLOW ROAI
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		
CIVILIZEI	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SH

CONTRACT NO. 60X16 SHEETS STA. TO STA. TULINOIS FED ATD PROJECT



"p" (p)" (INTERCONNECT TO CADURE 14 CADURE 14 CADUR
	NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
AM AND SCHEDULE OF QUANTITIES OAD AT TOUHY AVENUE	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 2013-055TS COOK 73 35 CONTRACT NO. 60X16
S STA. TO STA.	ILLINOIS FED. AID PROJECT



<u>NOTES</u>

REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL". 1.

	I TRAFFIC SIGN/ CTRICAL SERV					DTAL TAGE				
TYPE	NO. LAMPS>	WATT INCAND.	AGE LED	X OPERATION		INCL				MAIN
SIGNAL (RED)	18		17	0.50		153				UNINT
(YELLOW)	18		25	0.25		94				
(GREEN)	18		15	0.25		68				
ARROW	16		12	0.10		19				
CONTROLLER	1		100	1.00		100				
				TOTAL =		434				
ENERGY COSTS	201 WEST SCHAUMBU CONTACT:	CENTER RG, IL 6 COM ED (866) 63	COURT 0196-10		ION					
		USER NA	ME = jrt			DESIGN	ED ·	-	BRD	
C						DRAWN		-	JRT	
CIVIT	ТЕСН	PLOT SC	ALE = 40.00	000 ′ / In.		CHECKE	D ·	-	JJE	
CIVIL		PLOT DA	TE = 12/2	/2013		DATE		-	12/02	/2013

SCHEDULE OF QUANTITIES

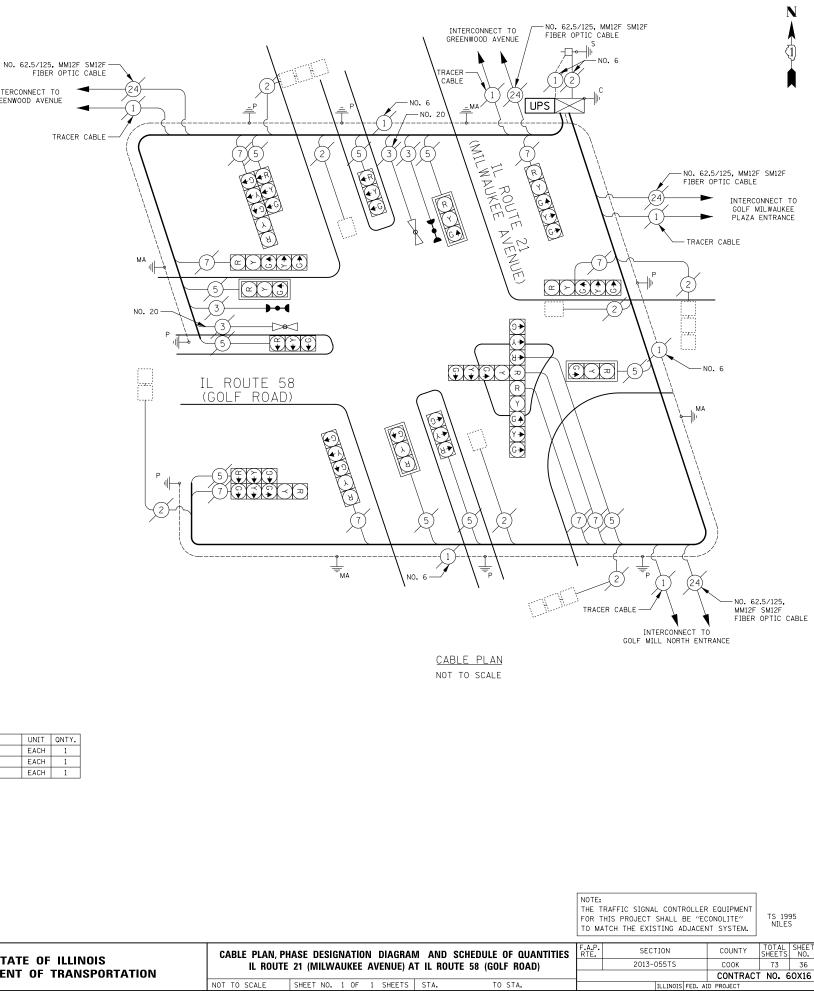
6

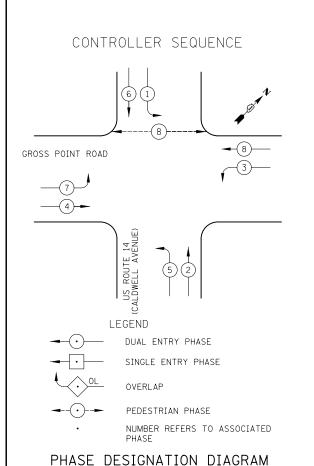
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

REVISED

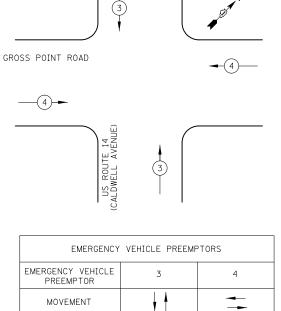
201 WEST SCHAUMBUF CONTACT:	DEPARTMENT OF T CENTER COURT RG, IL 60196-1096 COM ED (866) 639-3532		434 ON				
ТЕСН	USER NAME = jrt		DESIGNED	- BRD	REVISED -		CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHE IL ROUTE 21 (MILWAUKEE AVENUE) AT IL ROUTE 5
			DRAWN	- JRT	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = 40.0000) ′ / ın.	CHECKED	- JJE	REVISED -	DEPARTMENT OF TRANSPORTATION	

INTERCONNECT TO GREENWOOD AVENUE

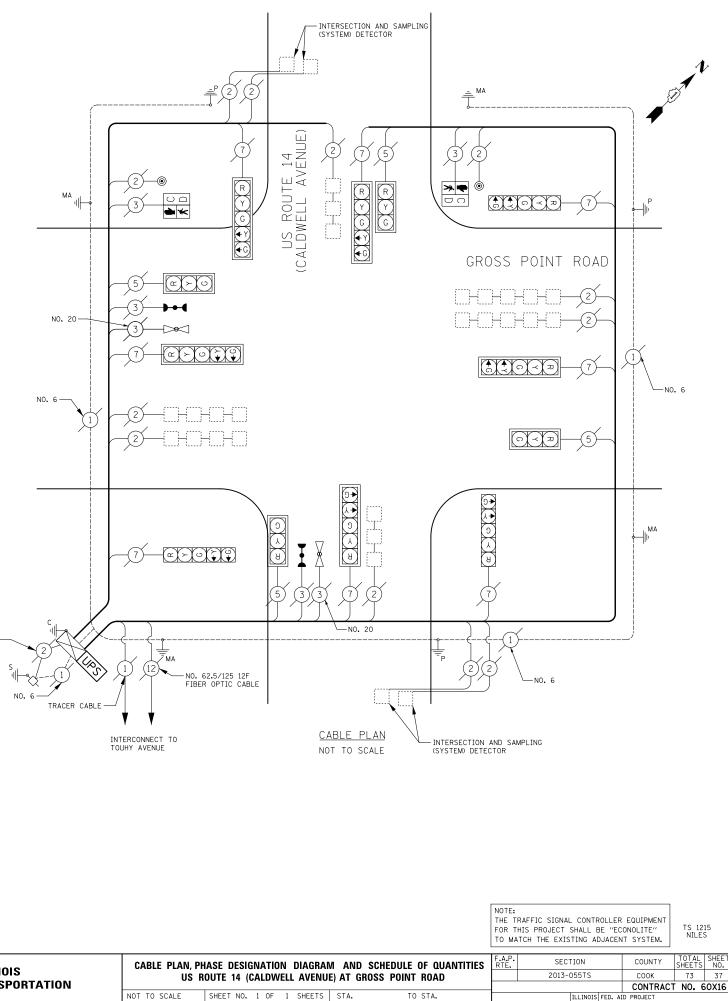




<u>NOTES</u>



EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS TOTAL WATTAGE NO. LAMPS | WALLACE X OPERATION IYPE SIGNAL (RED) 0.50 0.25 12 17 102 75 (YELLOW) 25 (GREEN) 0.25 45 19 50 ARROW ED. SIGNAL 1.00 100 1.00 100 391 TOTAL = ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096 ENERGY SUPPLY: CONTACT: COM ED PHONE: (866) 639-3532

1. REPLACEMENT OF THE EXISTING CONFIRMATION BEACON WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".

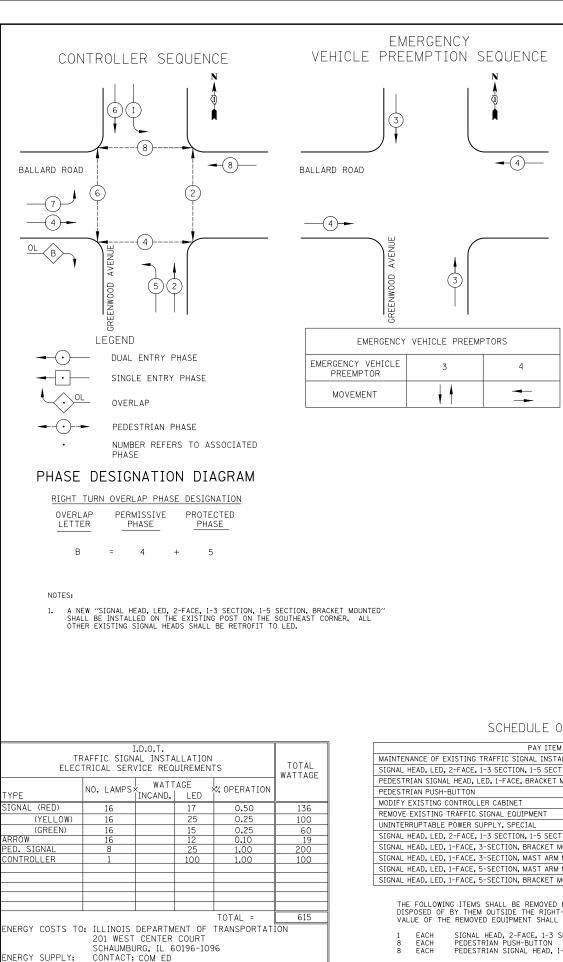
SCHEDULE OF QUANTITIES

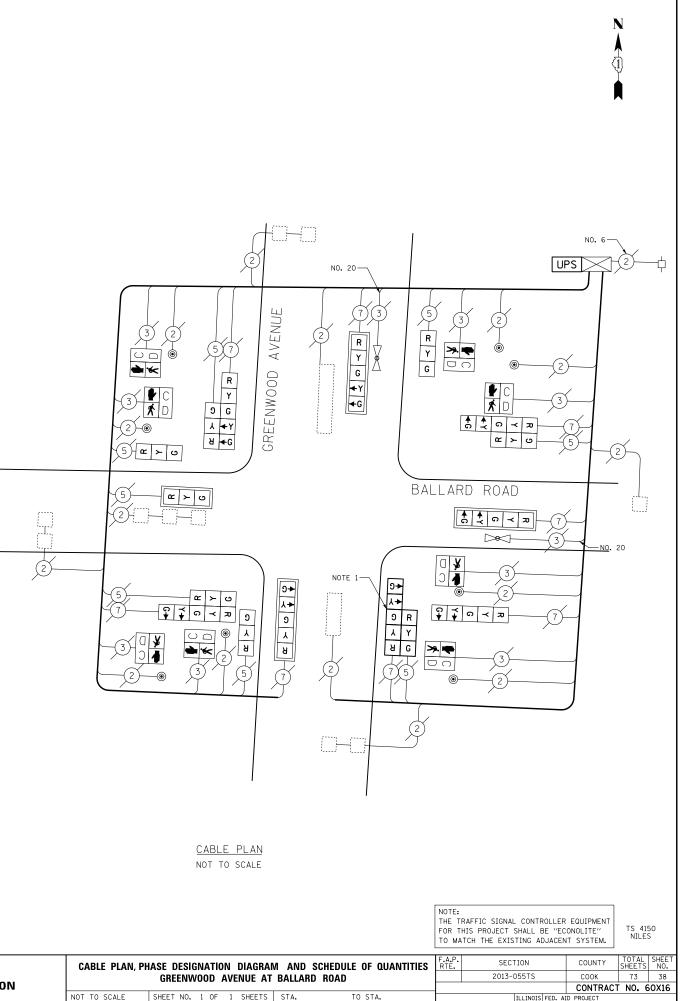
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

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

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

COMPANY: (866) 639-3532 COM ED							
	USER NAME = jrt	DESIGNED - BRD	REVISED -			IASE DESIGNATION DIAGRAM		
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US ROUTE 14 (CALDWELL AVENUE			
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -		03 n	OUTE 14 (CALDWELL AVENUE)		
Civiliteit	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS		





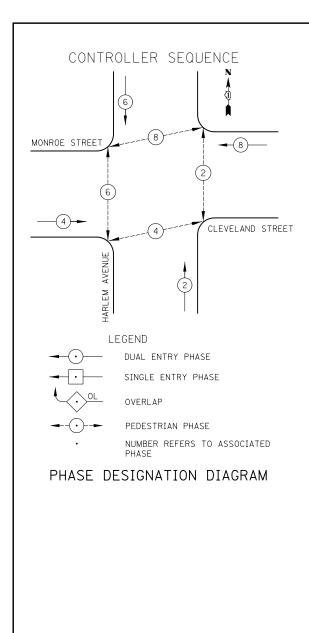
SCHEDULE OF QUANTITIES

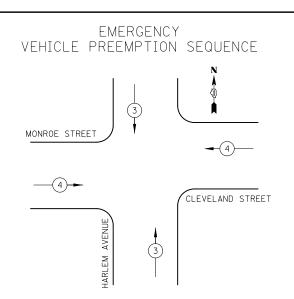
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	1

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

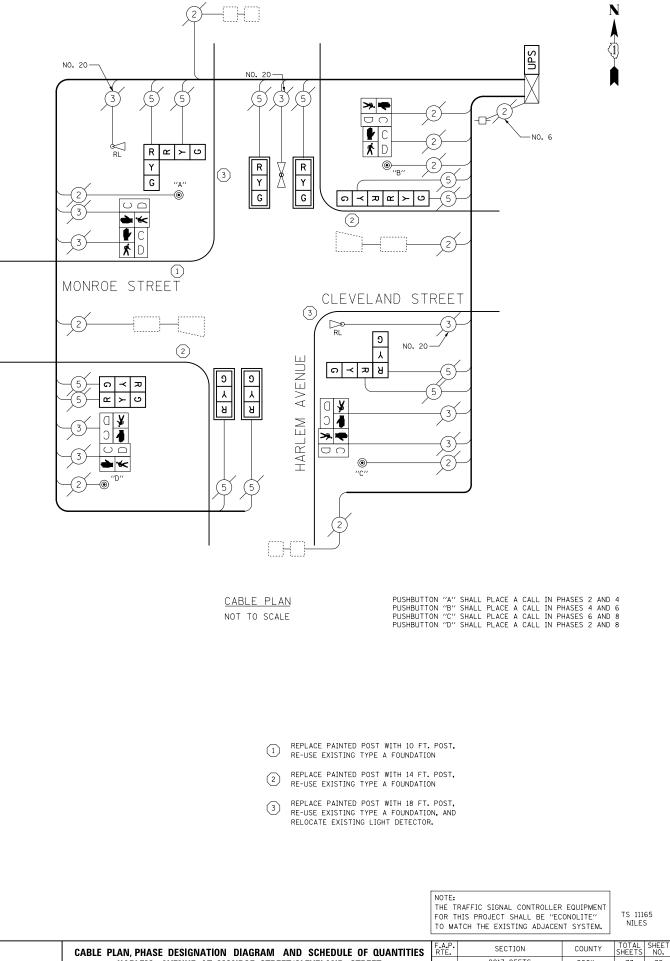
SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION PEDESTRIAN PUSH-BUTTON PEDESTRIAN SIGNAL HEAD, 1-FACE

PHONE: (COMPANY: (866) 639-3532				
CIVILTECH	USER NAME = Jrt	DESIGNED - BRD DRAWN - JRT	REVISED - REVISED -	STATE OF ILLINOIS	CABLE PLAN, PHASE DESIGNATION DIAGRAM Greenwood avenue at BA
	PLOT SCALE = 40.0000 '/ in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION	
	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE SHEET NO. 1 OF 1 SHEETS S





EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	¥ Å	↓			



I.D.O.T. TRAFFIC SIGNAL INSTALLATION TOTAL ELECTRICAL SERVICE REQUIREMENTS WATTAGE NO. LAMPS | WALLACE X OPERATION IYPE SIGNAL (RED) 12 17 0.50 102 (YELLOW) 25 0.25 75 12 (GREEN) PED. SIGNAL CONTROLLER 15 0.25 45 12 1.00 200 100 1.00 100 522 TOTAL = ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096 CONTACT: COM ED PHONE: (866) 639-3532 COMPANY: COM ED ENERGY SUPPLY:

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	4

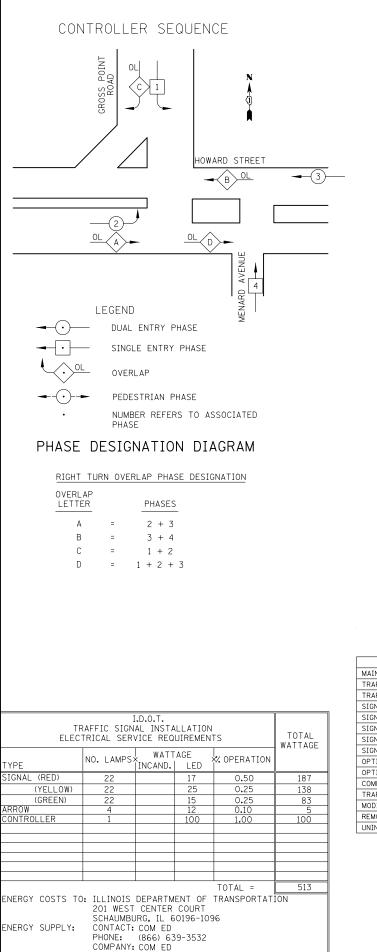
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

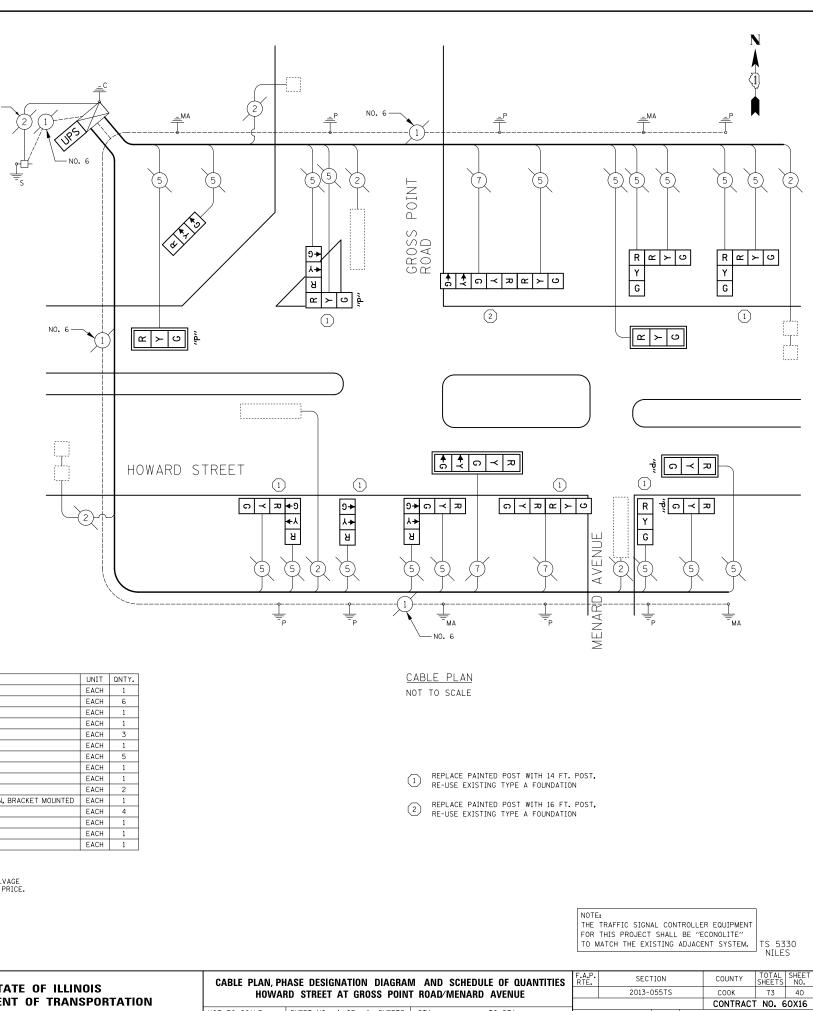
SIGNAL HEAD, 1-FACE, 3-SECTION SIGNAL HEAD, 2-FACE, 3-SECTION PEDESTRIAN PUSH-BUITON, NON-LATCHING PEDESTRIAN SIGNAL HEAD, 2-FACE TRAFFIC SIGNAL BACKPLATE TRAFFIC SIGNAL POST FACH

EACH EACH EACH EACH EACH EACH 5

	USER NAME = jrt	DESIGNED - BRD	REVISED -			HASE DESIGNATION DIAGRAM	
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	HARLE		
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION			
CIVILILEII	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS	

TREET/CLEVELAND STREET						
		2013-055TS		COOK	73	39
				CONTRACT	NO.	60X16
	STA. TO STA.	ILLINOIS	FED. AI	D PROJECT		





SCHEDULE OF QUANTITIES

N0.

PAY ITEM	UNIT	ONTY.
		UNTT.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	6
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

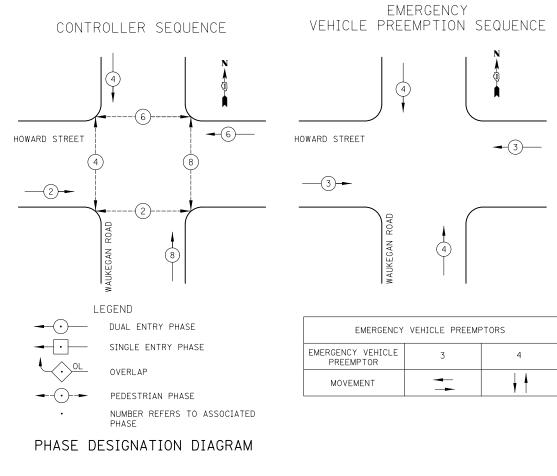
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

7	EACH	TRAFFIC SIGNAL POST
7	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
1	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
6	EACH	SIGNAL HEAD, 2-FACE, 3-SECTIO
1	EACH	SIGNAL HEAD, 2-FACE, 1-3 SECT
4	E A C H	TRAFFIC SIGNAL BACKPLATE

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

	COMITANT. C								
		USER NAME = jrt	DESIGNED - BRD	REVISED -			HASE DESIGNATION DIAGRAM		
			DRAWN - JRT	REVISED -	STATE OF ILLINOIS	HOWARD STREET AT GROSS POINT F			
	CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION	nowa	ND SINCE AT GROSS FORT N		
	CIVILILCII	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS ST		

						CONTRACT	NO.	60X16
S	STA.	TO STA.		ILLINOIS FED	D. AI	D PROJECT		



<u>NOTES</u>

- REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED".
- 2. THE UNINTERRUPTABLE POWER SUPPLY SHALL BE INSTALLED ON A SEPARATE TYPE "A" SOUARE FOUNDATION DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, INCLUDING THE CONCRETE FOUNDATION, DRILLING THE EXISTING HANDHOLE, ALL CONDUIT AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UNINTERRUPTABLE POWER SUPPLY AND ALL RESTORATION SPECIFIED IN THE RESTORATION OF WORK AREA GENERAL NOTE SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED" AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
- 3. THE CONTRACTOR SHALL LOCATE THE EXISTING ELECTRICAL SERVICE CONDUIT TO THE CONTROLLER. THE UNINERRUPTABLE POWER SUPPLY, GROUND MOUNTED SHALL BE LOCATED TO THE WEST OF THE EXISTING CONTROLLER CABINET, AS FAR AS POSSIBLE FROM THE BACK OF CURB WITHOUT IMPACTING THE EXISTING SERVICE CONDUIT, OR AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO THE SERVICE CONDUIT OR CABLE SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS×	WATT INCAND.	AGE LED	. OPERATION	WATTAGE	
SIGNAL (RED)	12		17	0.50	102	
(YELLOW)	12		25	0.25	75	
(GREEN)	12		15	0.25	45	
PED. SIGNAL	8		25	1.00	200	
CONTROLLER	1		100	1.00	100	-
						-
						٦
				TOTAL =	522	4
ENERGY COSTS TO			ENT OF			-
ENERGI CUSIS I	201 WEST			TRANSPORTAL	ION	
	SCHAUMBU			96		
ENERGY SUPPLY:						
	PHONE:		9-3532			
	COMPANY:	COM ED				
		USER NA	ME = jrt		DESIG	NE
C					DRAW	N
CIVILT	ECU	PLOT SC	ALE = 40.00	00 ′ / in.	CHECK	(El
CIVILI	ECH	0. 07 O			DATE	

PLOT DATE = 12/2/2013

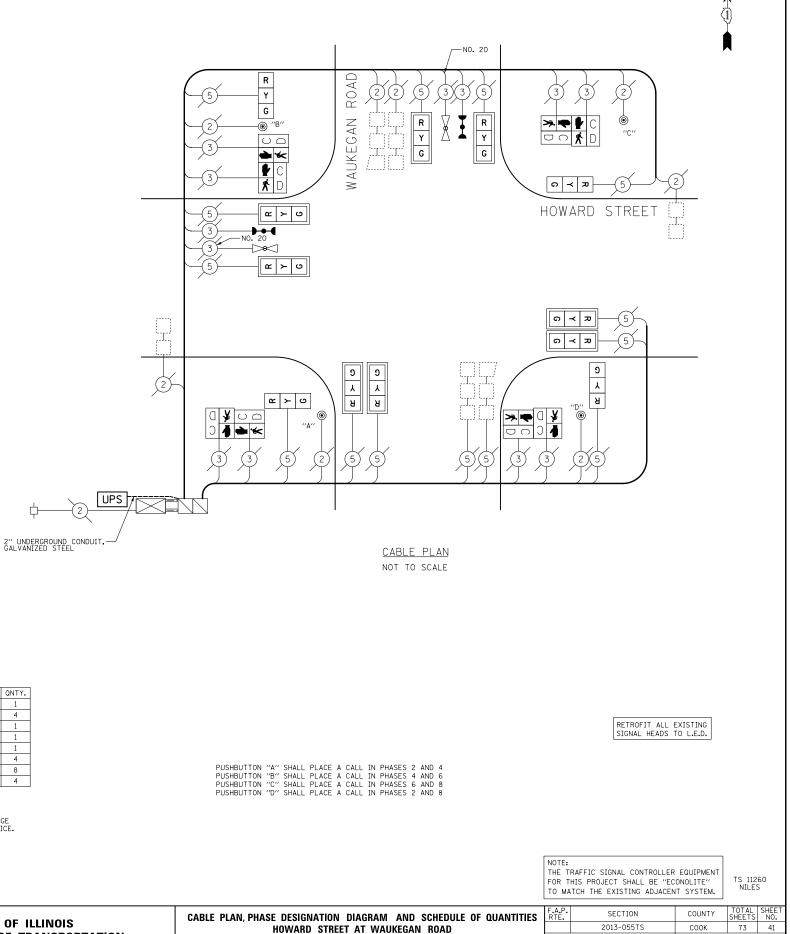
DATE

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	8
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	4

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 PUSH-BUTTON, NON-LATCHING PEDESTRIAN SIGNAL HEAD, 2-FACE 4 EACH 4 EACH

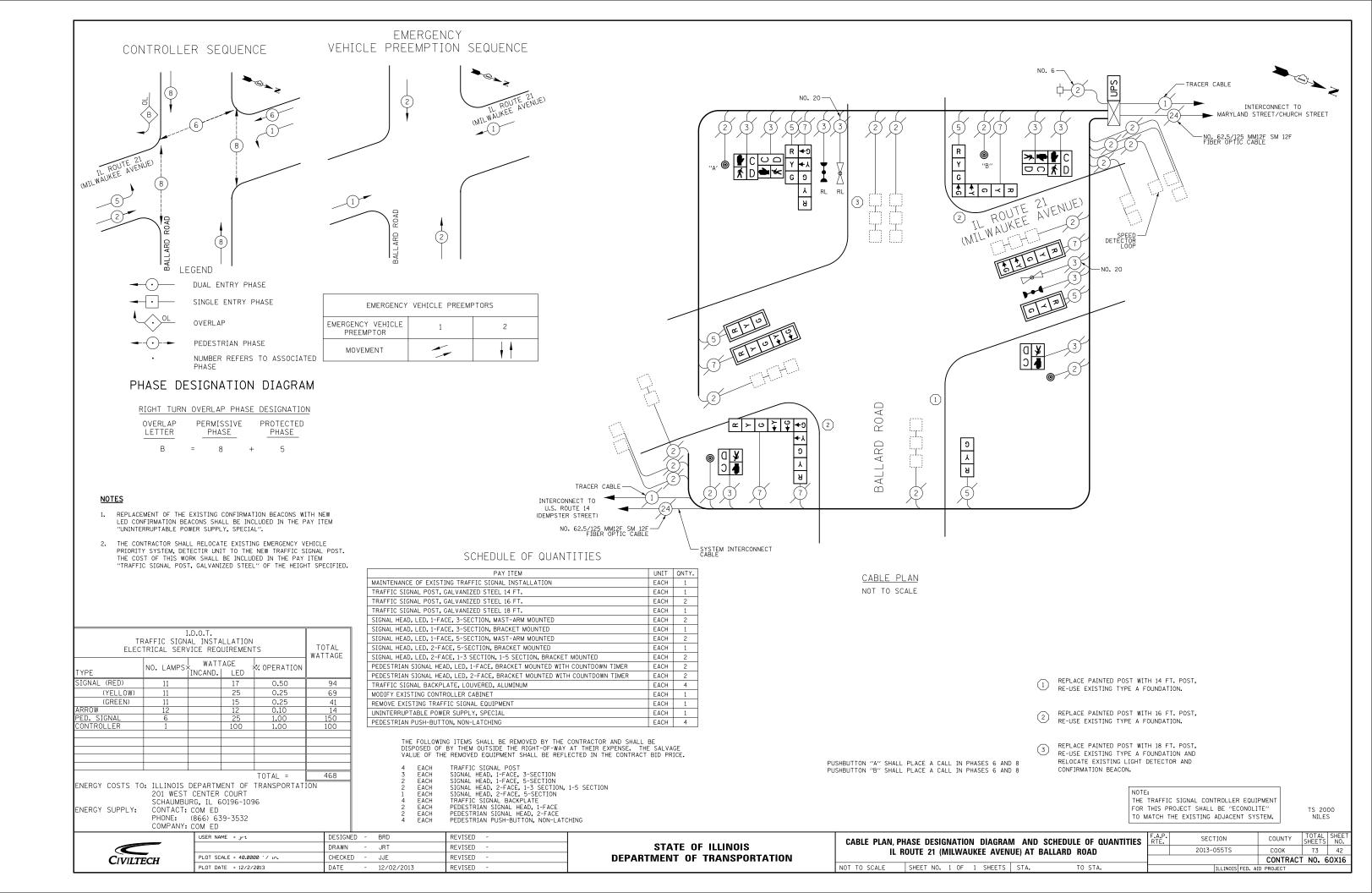


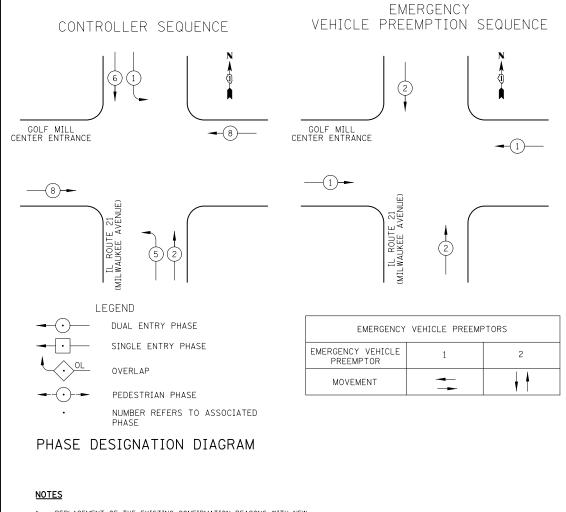
PUSHBUITON	A	SHALL	PLACE	А	CALL	ΠÞ
PUSHBUTTON	''B''	SHALL	PLACE	А	CALL	IN
PUSHBUTTON	"C"	SHALL	PLACE	А	CALL	IN
PUSHBUTTON	''D''	SHALL	PLACE	А	CALL	IN

:D - -) -	BRD JRT JJE	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PH	ASE DESIGNATION DIAGRAM HOWARD STREET AT WAUI	AND SCHE (Egan Ro <i>i</i>
-	12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS S	TA.

VAUKEGAN ROAD				2013-05515		СООК	73	41
		_			CONTRACT	' NO.	60X16	
5	STA.	TO STA.		ILLINOIS	FED.	AID PROJECT		

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- REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL". 1.
- THE CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT TO THE NEW TRAFFIC SIGNAL POST. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC SIGNAL POST, GALVANIZED STEEL" OF THE HEIGHT SPECIFIED.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTA WATTA	
TYPE	NO. LAMPS>	WATT INCAND.	AGE LED	. OPERATION		02
SIGNAL (RED)	10		17	0.50	85	5
(YELLOW)	10		25	0.25	63	3
(GREEN)	10		15	0.25	38	
ARROW	8		12	0.10	10	
CONTROLLER	1		100	1.00	100	
				TOTAL =	296	ŝ
ENERGY COSTS TO	201 WEST	CENTER	COURT		ION	
SCHAUMBURG, IL 60196-1096 ENERGY SUPPLY: CONTACT: COM ED PHONE: (866) 639-3532 COMPANY: COM ED						
		USER NA	ME = jrt		DE	SIGNE
					DR	RAWN
CIVILT	ECU	PLOT SC	ALE = 40.00	00 ′ / In.	СН	ECKE
CIVILI	ЕСП					

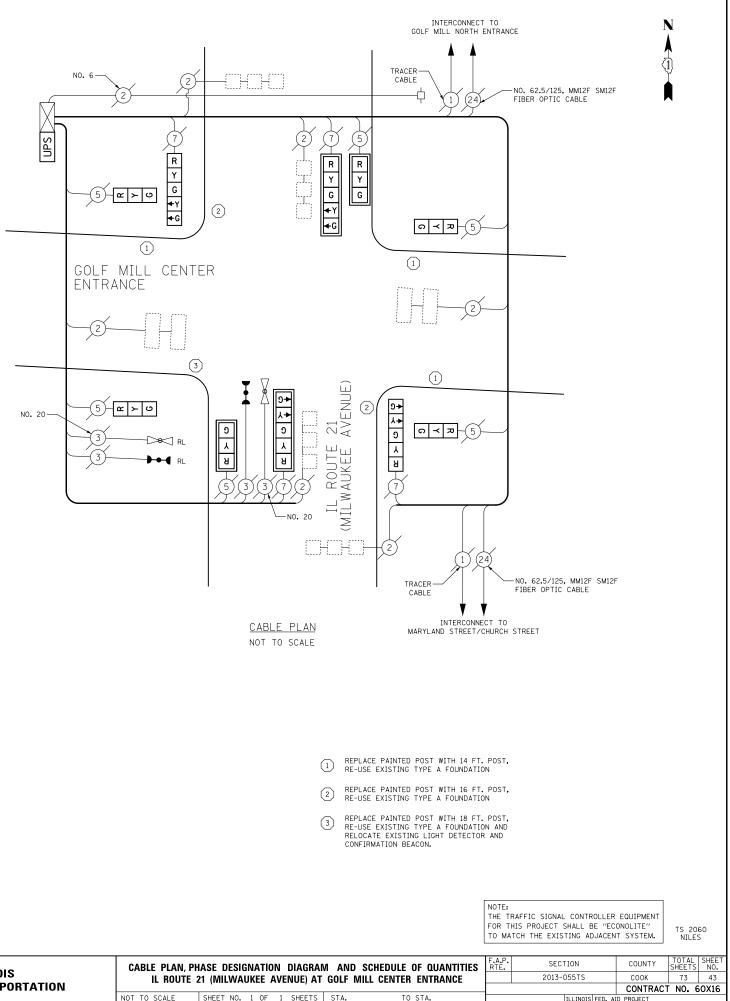
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

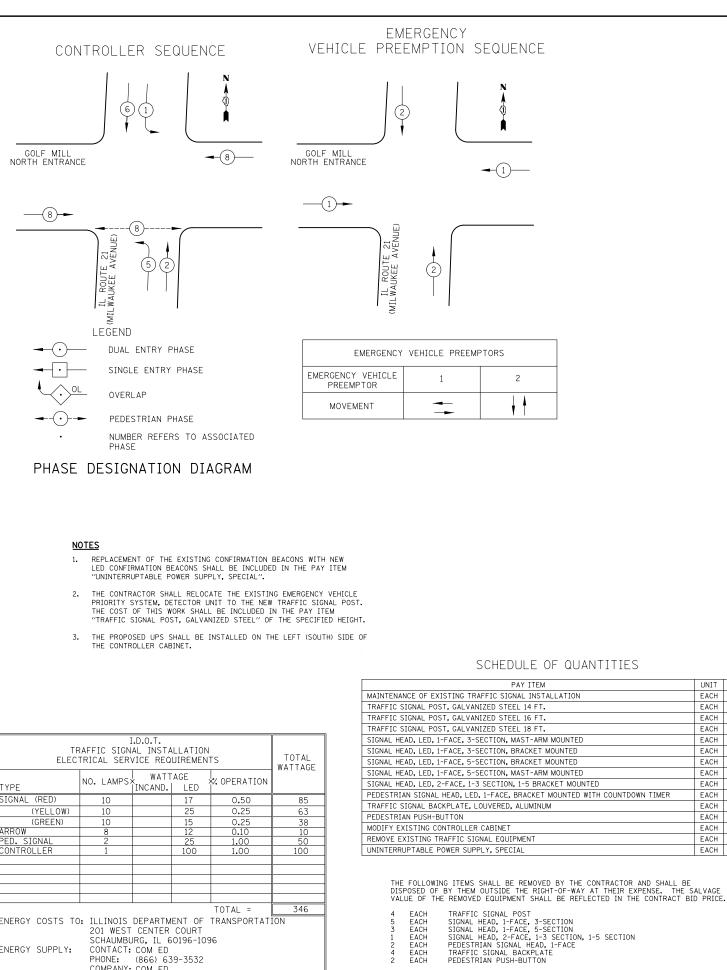
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

EACH	TRAFFIC	SIGNAL	POST	
EACH	SIGNAL H	EAD, 1-	FACE,	3-SE

EACH	INAFFIC SIGNAL FUSI
EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
EACH	TRAFFIC SIGNAL BACKPLATE

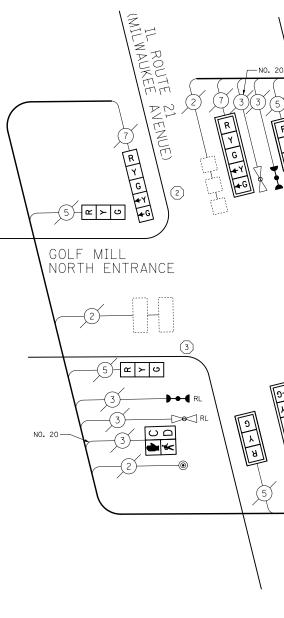


	USER NAME = jrt	DESIGNED - BRD	REVISED -			ASE DESIGNATION DIAGRAM	
CIVILTECH		DRAWN - JRT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAI IL ROUTE 21 (MILWAUKEE AVENUE) AT		
	PLOT SCALE = 40.0000 '/ in.	CHECKED - JJE	REVISED -			ZI (MILWAOKLE AVENOL) AI C	
CITIEILEII	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS	



ENERGY SUPPLY:

CONTACT: COM ED



<u>CABLE PL</u> NOT TO SCAL

SAMPL] LOOPS

1 REPLAC RE-USE

2 REPLAC RE-USE

REPLACE RE-USE RELOCAT 3

CONFIRM

		4 EACH 2 EACH	PEDESTRIAN PUSH-BUTTON				
	USER NAME = jrt	DESIGNED - BRD	REVISED -			HASE DESIGNATION DIAGRAM	
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	IL ROUTE 21 (MILWAUKEE AVENUE) AT G		
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		21 (MILWAORLE AVENOL) AT G	
Civilia	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS 5	
		COMPANY: COM ED USER NAME = jrt PLOT SCALE = 40.0000 '/ in.	PHONE: (866) 639-3532 2 EACH COMPANY: COM ED 2 EACH User NAME jrt DESIGNED BRD PLOT SCALE 40.0000 1/ Jnn. CHECKED JJE	PHONE: (866) 639-3532 2 EACH PEDESTRIAN PUSH-BUTTON COMPANY: COM ED BRD REVISED	PHONE: (866) 639-3532 COMPANY: COM ED USER NAME = jrt DESIGNED - BRD REVISED - DRAWN - JRT REVISED - PLOT SCALE = 40.0000 // in. CHECKED - JJE REVISED - PLOT SCALE = 40.0000 // in. CHECKED - JJE REVISED -	PHONE: (866) 639-3532 COMPANY: COM ED 2 EACH PEDESTRIAN PUSH-BUTTON 2 EACH PEDESTRIAN PUSH-BUTTON 2 EACH PEDESTRIAN PUSH-BUTTON CMBER PLAN, PL CMBER PL	

UNIT QNTY.

EACH 1

EACH 1

EACH 2

EACH 1

EACH 2

EACH 3

EACH 1

EACH 2

EACH 1

EACH 2

EACH 4

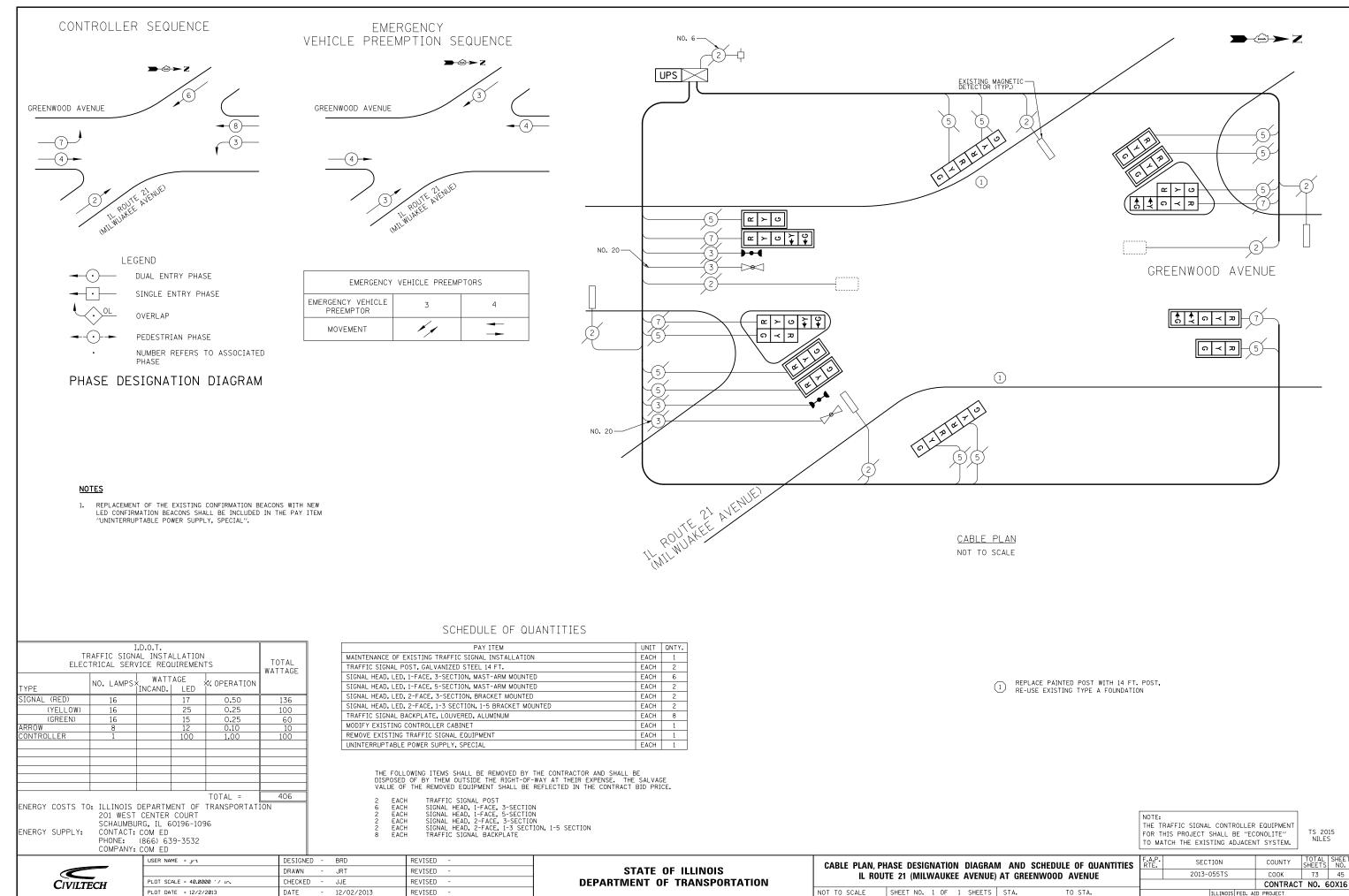
EACH 2

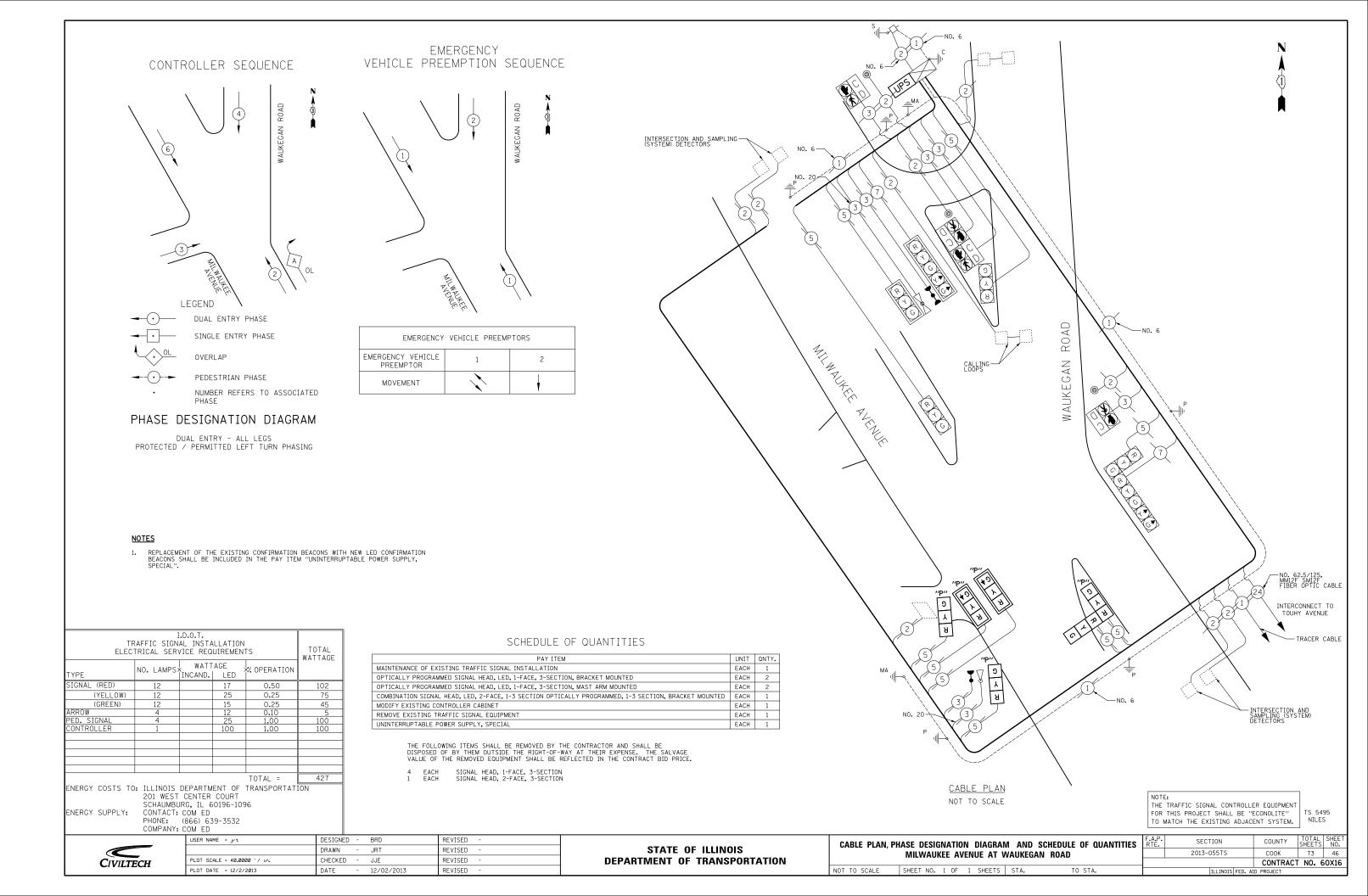
EACH 1

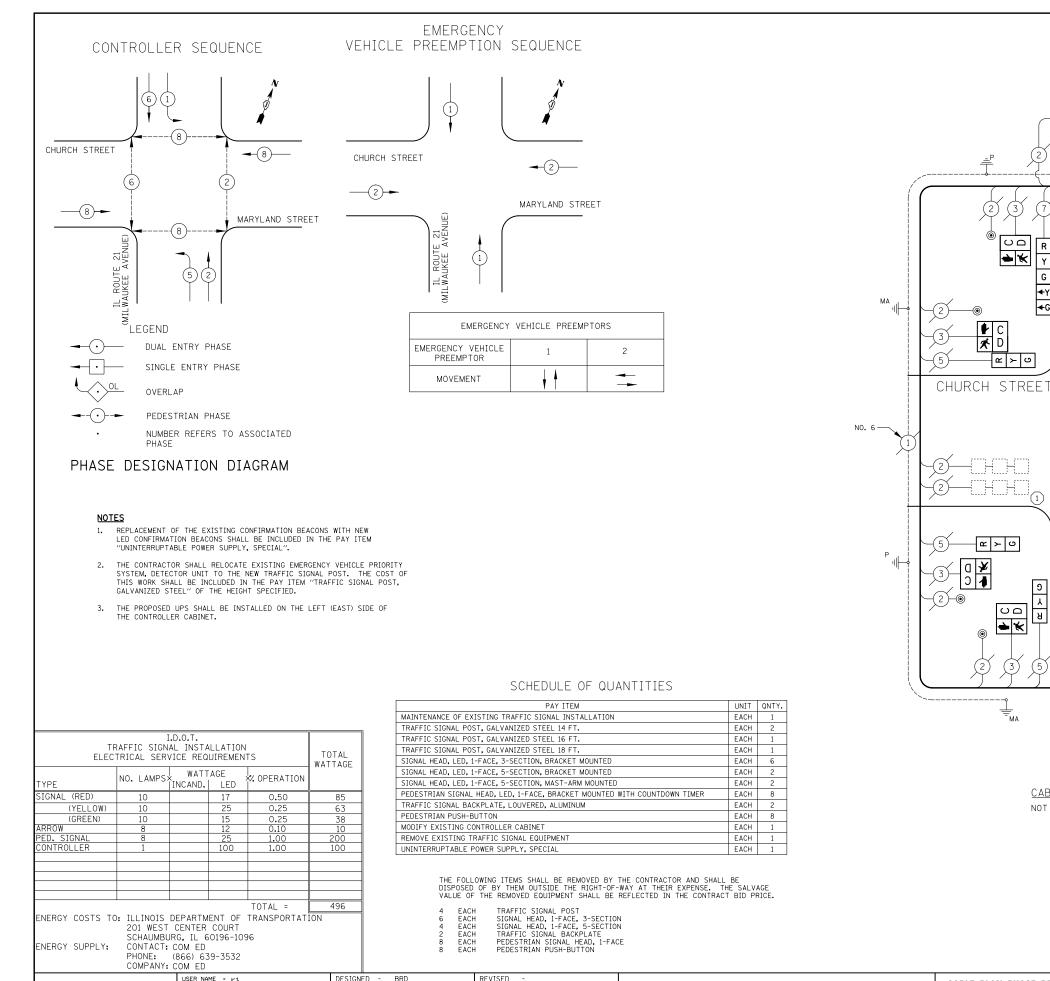
EACH 1

EACH 1

	62.5/125. MM12F SM12F
	© 2 2 2 2 1 24 NO. 62.5/125, MM12F SM12F FIBER OPTIC CABLE TRACER CABLE
AN LE ING DETECTOR SPEED DETECTOR	INTERCONNECT TO GOLF MILL CENTER ENTRANCE
E PAINTED POST WITH 14 FT. POST, EXISTING TYPE A FOUNDATION	
E PAINTED POST WITH 16 FT. POST, EXISTING TYPE A FOUNDATION	
E PAINTED POST WITH 18 FT. POST, EXISTING TYPE A FOUNDATION AND TE EXISTING LIGHT DETECTOR AND MATION BEACON.	NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
M AND SCHEDULE OF QUANTITIES GOLF MILL NORTH ENTRANCE	F.A.P. RTE. SECTION COUNTY TOTAL SHEET SHEET NO. 2013-055TS COOK 73 44
STA. TO STA.	ILLINOIS FED. AID PROJECT

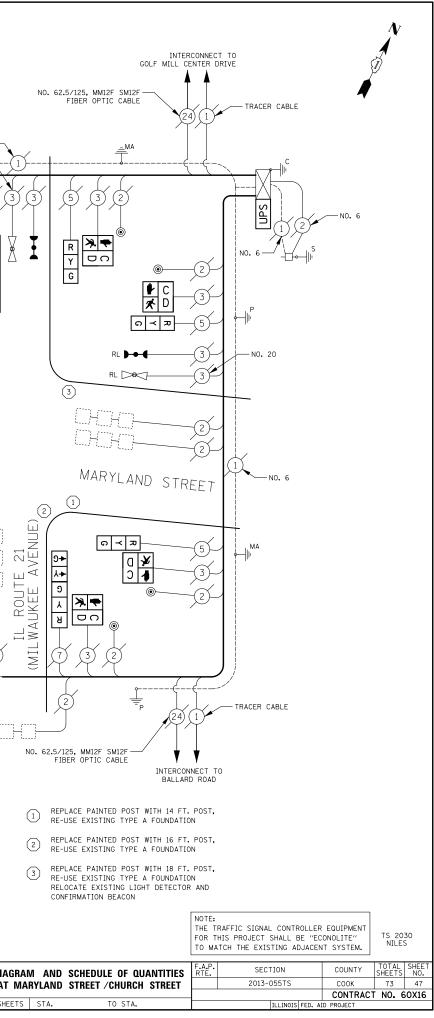






<

DESIGNED - BRD REVISED USER NAME = jrt CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES **STATE OF ILLINOIS** ORAWN JRT REVISED IL ROUTE 21 (MILWAUKEE AVENUE) AT MARYLAND STREET / CHURCH STREET LOT SCALE = 40.0000 '/ in. CHECKED JJE REVISED **DEPARTMENT OF TRANSPORTATION** CIVILTECH NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. DATE 12/02/2013 PLOT DATE = 12/2/2013 REVISED



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CABLE PLAN

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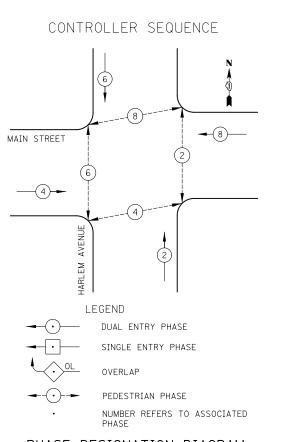
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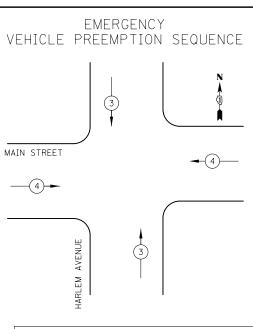
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EMERGENCY	VEHICLE PREEMF	TORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↓ ↑	*

PHASE DESIGNATION DIAGRAM

<u>NOTES</u>

CIVILTECH

- REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED".
- THE CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT TO THE NEW TRAFFIC SIGNAL POST. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC SIGNAL POST, GALVANIZED STEEL" OF THE HEIGHT SPECIFIED.
- 3. THE UNINTERRUPTABLE POWER SUPPLY SHALL BE INSTALLED ON A SEPARATE TYPE "A" SQUARE FOUNDATION DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE ENGINEER. THIS WORK, INCLUDING THE CONCRETE FOUNDATION, DRILLING THE EXISTING HANDHOLE, ALL CONDUIT AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UNINTERRUPTABLE POWER SUPPLY AND ALL RESTORATION SPECIFIED IN THE RESTORATION OF WORK AREA GENERAL NOTE SHALL BE INCLUDED IN THE RESTORATION OF WORK AREA GENERAL NOTE SHALL BE INCLUDED IN THE RESTORATION OF WORK AREA GENERAL NOTE SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED" AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
- 4. THE UNINERRUPTABLE POWER SUPPLY, GROUND MOUNTED SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE.

TF ELEC		TAL TAGE							
TYPE	NO. LAMPS>	WATT INCAND.		% OPERATION					
SIGNAL (RED)	12		17	0.50		102			
(YELLOW)	12		25	0.25		75			
(GREEN)	12		15	0.25		45			
PED. SIGNAL	8		25	1.00		200			
CONTROLLER	1		100	1.00		100			
				TOTAL =		522			
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096 ENERGY SUPPLY: CONTACT: COM ED									
	PHONE: (866) 639-3532 COMPANY: COM ED								
		USER NA	ME = jrt			DESIGN			
e						DRAWN			

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	1

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

EACH	SIGNAL	HEAD,	1-FACE.	3-SECTION
EACU	CTONAL		2 5405	7 CECTION

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

	MAIN STREET	
	H 	
_		२ २ 5
	2" UNDERGROUND CONDUI GALVANIZED STEEL	NO. 20

NO. 20-

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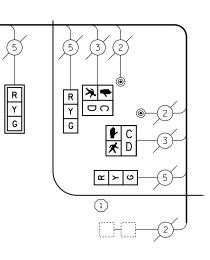
USER NAME = jrt	DESIGNE	D -	BRD	REVISED -			ASE DESIGNATION DIAGRAM
	DRAWN	-	JRT	REVISED -	STATE OF ILLINOIS	GADLE FLAN, FI	HARLEM AVENUE AT M
PLOT SCALE = 40.0000 ' / in.	CHECKE) -	JJE	REVISED -	DEPARTMENT OF TRANSPORTATION		HARLENI AVENUE AT IN
PLOT DATE = 12/2/2013	DATE	-	12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS

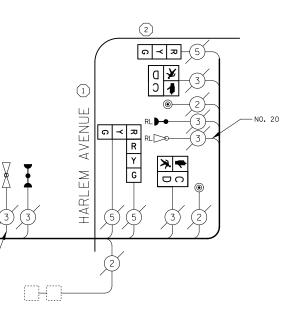
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<u>CABLE PLAN</u>

NOT TO SCALE

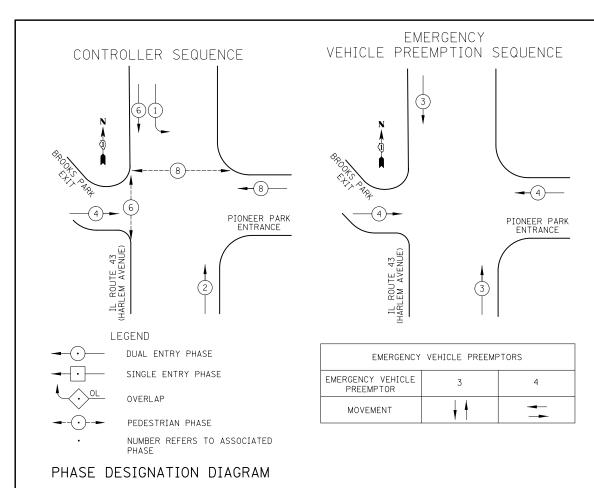






- 1 REPLACE PAINIEU POST WATER A FOUNDATION REPLACE PAINTED POST WITH 14 FT. POST,
- REPLACE PAINTED POST WITH 18 FT. POST, (2) RE-USE EXISTING TYPE A FOUNDATION, AND RELOCATE EXISTING LIGHT DETECTOR AND CONFIRMATION BEACON.

		FOR T	NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.				60 S
4	M AND SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECT	TION	COUNTY	TOTAL SHEETS	SHEET NO.
MAIN STREET			2013-0	D55TS	СООК	73	48
	· · · · · · · · · · · · · · · · · · ·				CONTRAC	T NO. 6	50X16
	STA. TO STA.			ILLINOIS FED. A	ID PROJECT		





IYPE

RROW ED. SIGNAL

SIGNAL (RED)

(YELLOW)

(GREEN)

ENERGY SUPPLY:

REPLACEMENT OF THE EXISTING CONFIRMATION BEACON WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".

X OPERATION

0.50 0.25

0.25

1.00

TOTAL =

TOTAL WATTAGE

102 75

45

100 100

427

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

NO. LAMPS | WALLACE

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT: COM ED PHONE: (866) 639-3532

17

25

15

25 100

12

12

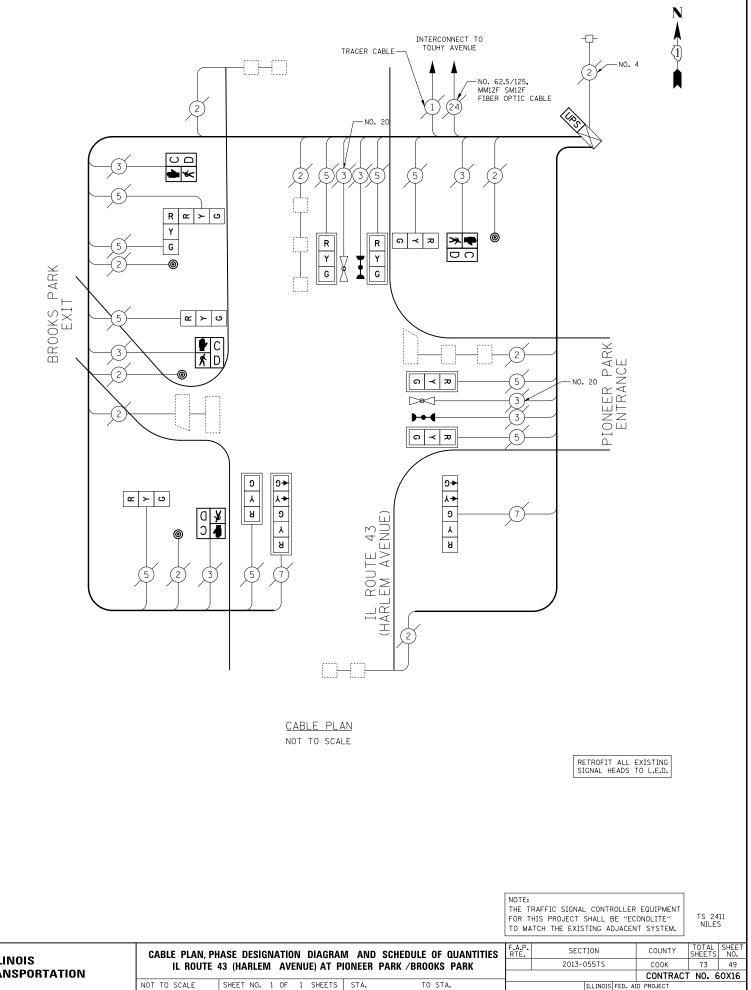
12

SCHEDULE OF QUANTITIES

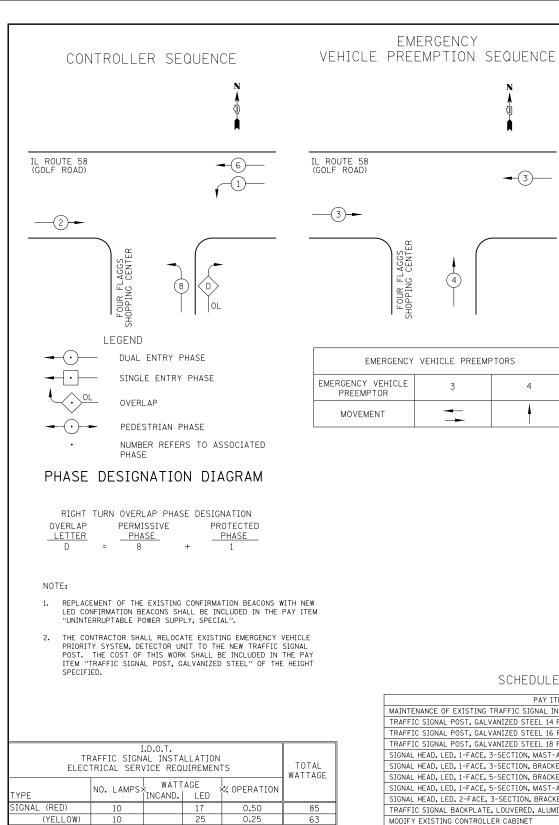
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER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

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 PUSH-BUTTON PEDESTRIAN SIGNAL HEAD, 1-FACE 4 EACH 4 EACH



COMPANY:	COM ED						
Civiltech	USER NAME = jrt	DESIGNED - BRD	REVISED -		CABLE PLAN, PHASE DESIGNATION DIAGRAM		
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 43 (HARLEM AVENUE) AT PION		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -				
Citillen	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE SHEET NO. 1 OF 1 SHEETS S		



0.25

1.00

15

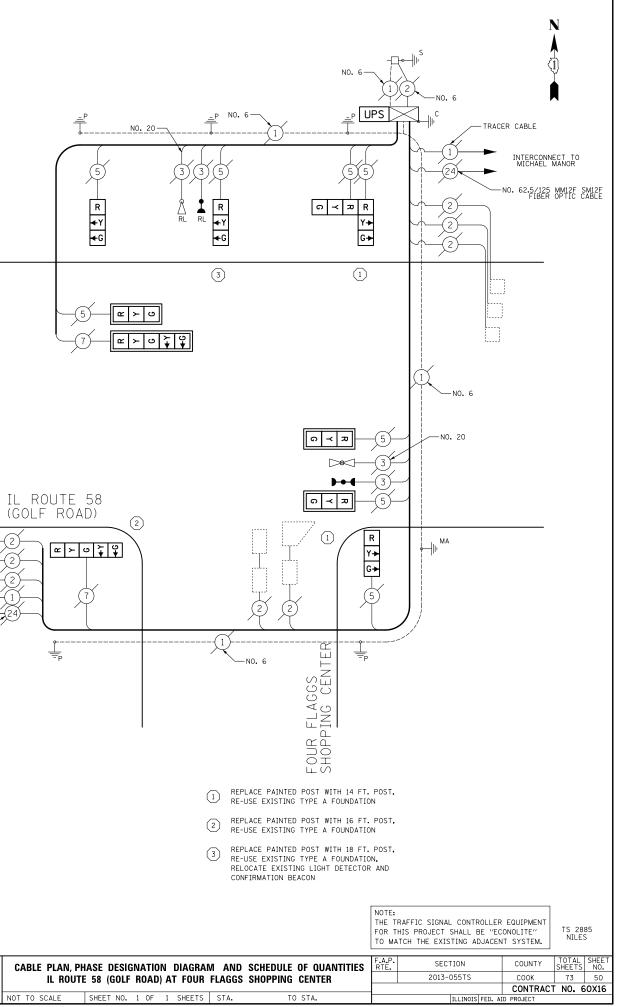
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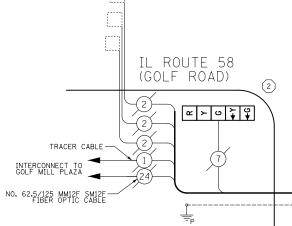
38

100

(GREEN)

ARROW ONTROLLER 10



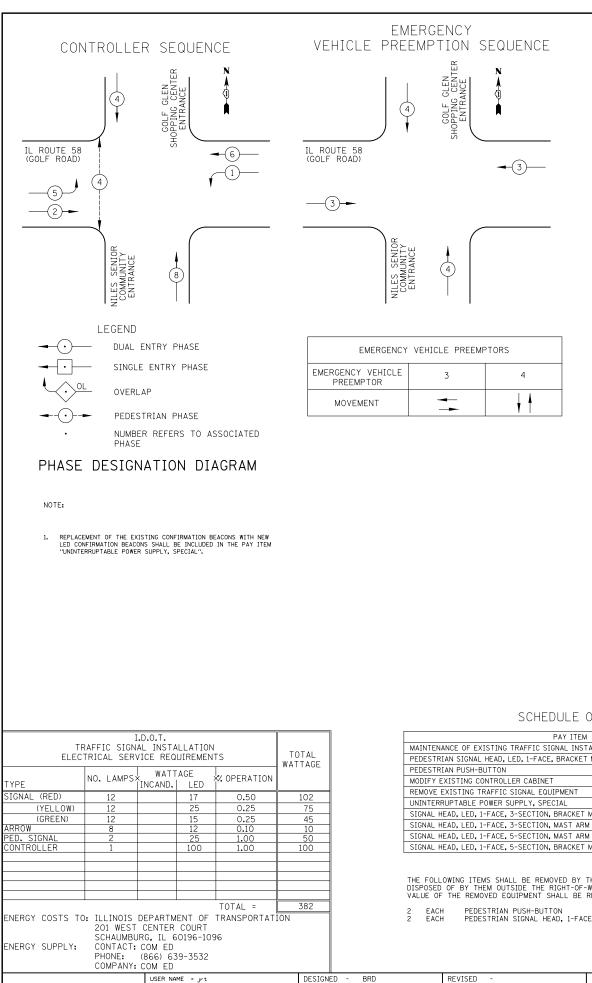


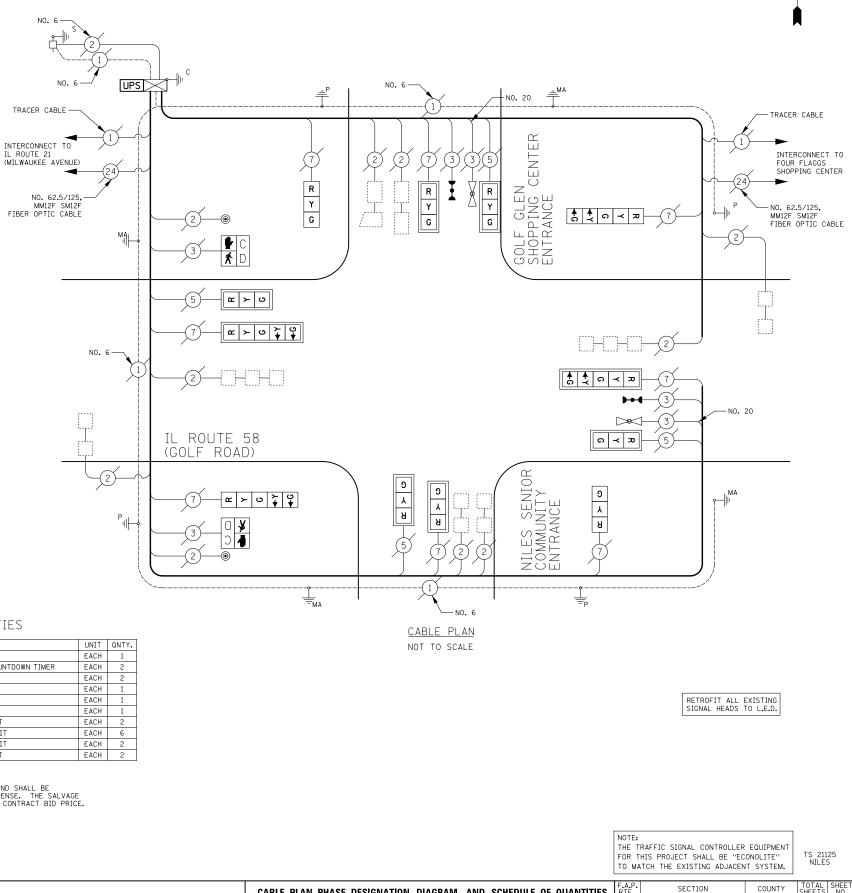
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE

ENERGY SUPPLY:	CONTACT: COM PHONE: (866 COMPANY: COM	639-3532	DESIGNED DRAWN	4 EAC - BRD - JRT	H TRAFFIC SIGNAL BACKPLATE REVISED - REVISED -	STATE OF ILLINOIS	CABLE PLAN, PHASE DESIGNA IL ROUTE 58 (GOLF RO
CIVILTI		OT SCALE = 40.0000 ' / in. OT DATE = 12/2/2013	CHECKED DATE	- JJE - 12/02/2013	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	NOT TO SCALE SHEET NO. 1





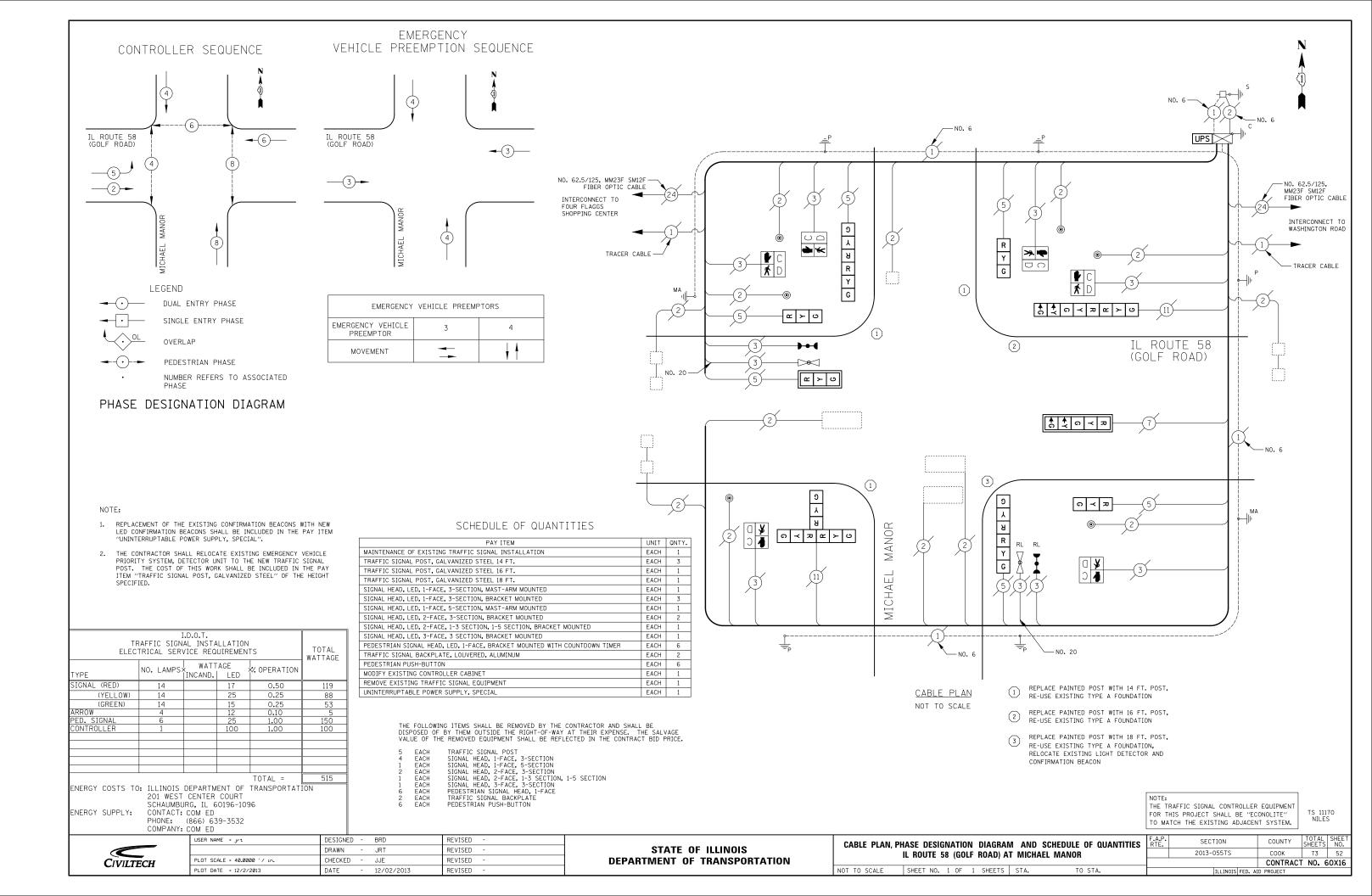
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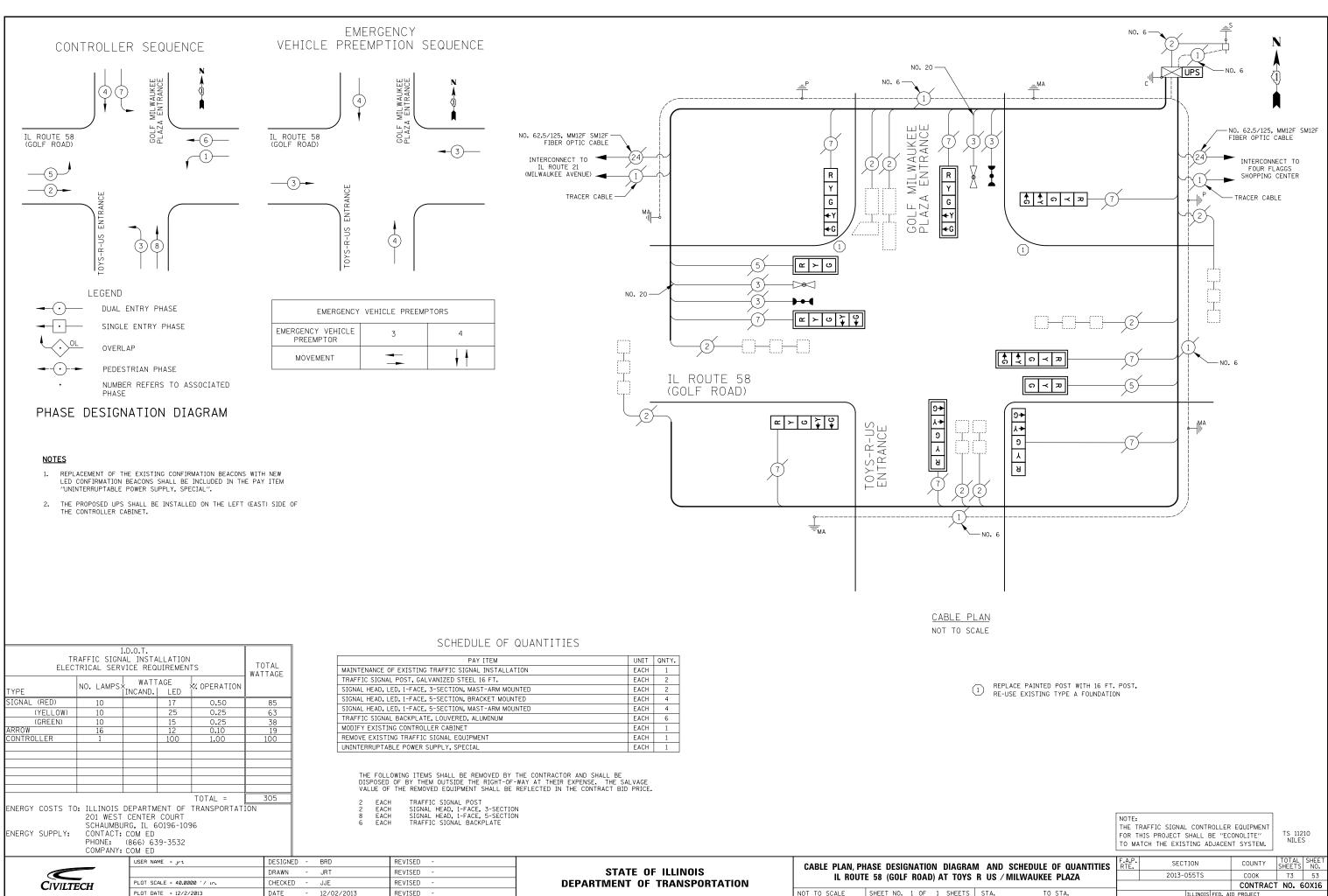
SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	6
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2

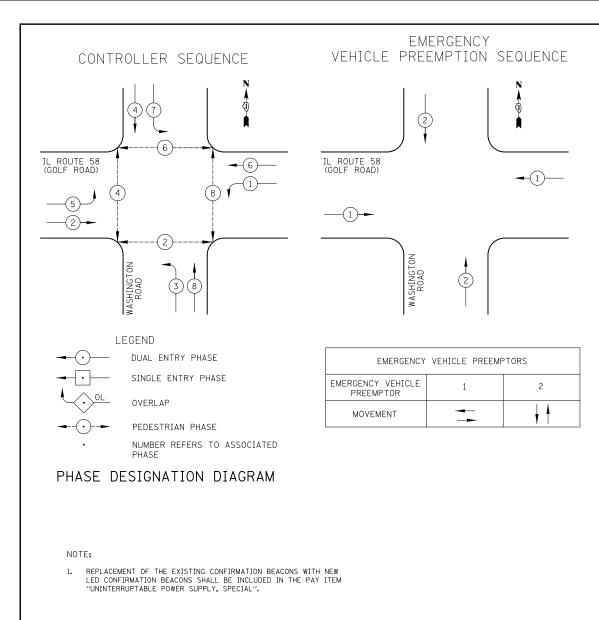
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

	USER NAME = jrt	DESIGNED - BRD			CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES	F.A.P. SECTION	COUNTY TOTAL SHEET
CIVILTECH		DRAWN - JRT	REVISED -	STATE OF ILLINUIS	IL ROUTE 58 (GOLF ROAD) AT GOLF GLEN SHOPPING CENTER	2013-055TS	COOK 73 51
	PLOT SCALE = 40.0000 ' / 10. PLOT DATE = 12/2/2013	CHECKED - JJE DATE - 12/02/2013	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 60X16
	FEUT DHIE - 12/2/2013	DATE - 12/02/2013	REVISED -		NUT TO SCALE SHEET NO. I OF I SHEETS STA. TO STA.	ILLINOIS FED	. AID PROJECT





NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. PLOT DATE = 12/2/2013 DATE - 12/02/2013 REVISED



TOTAL WATTAGE

119

88

53

19 200 100

X OPERATION

0.50

0.25

0.25 0.10 1.00 1.00

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

NO. LAMPS | WALLASE INCAND. | LED

17

25

15

25 100

14

14

14

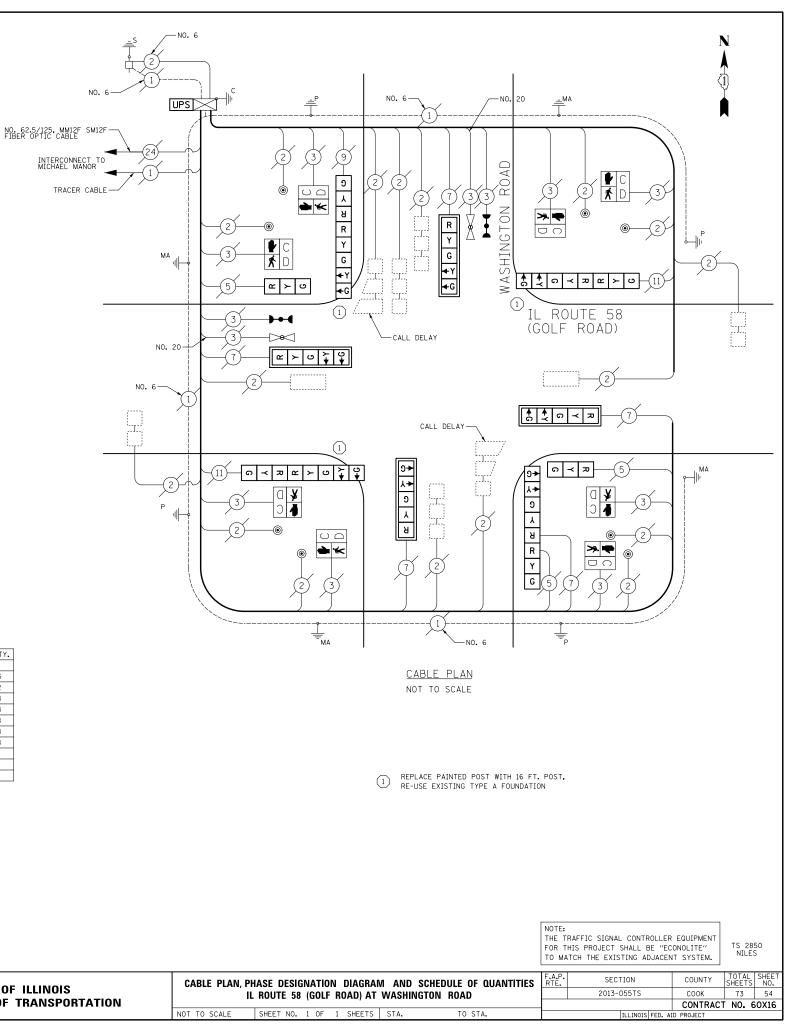
IYPE SIGNAL (RED)

ARROW

PED. SIGNAL

(YELLOW)

(GREEN)



SCHEDULE OF QUANTITIES

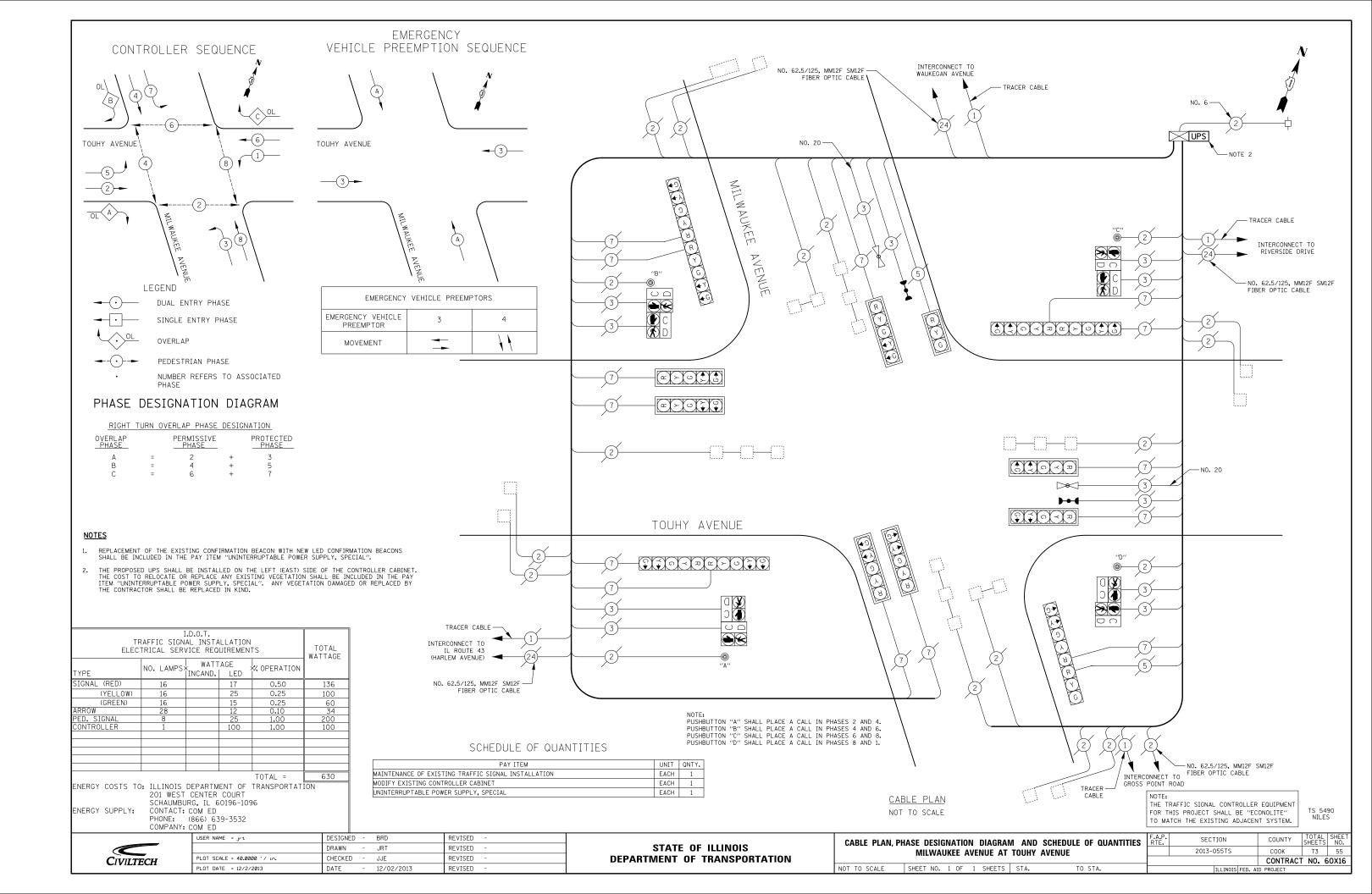
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

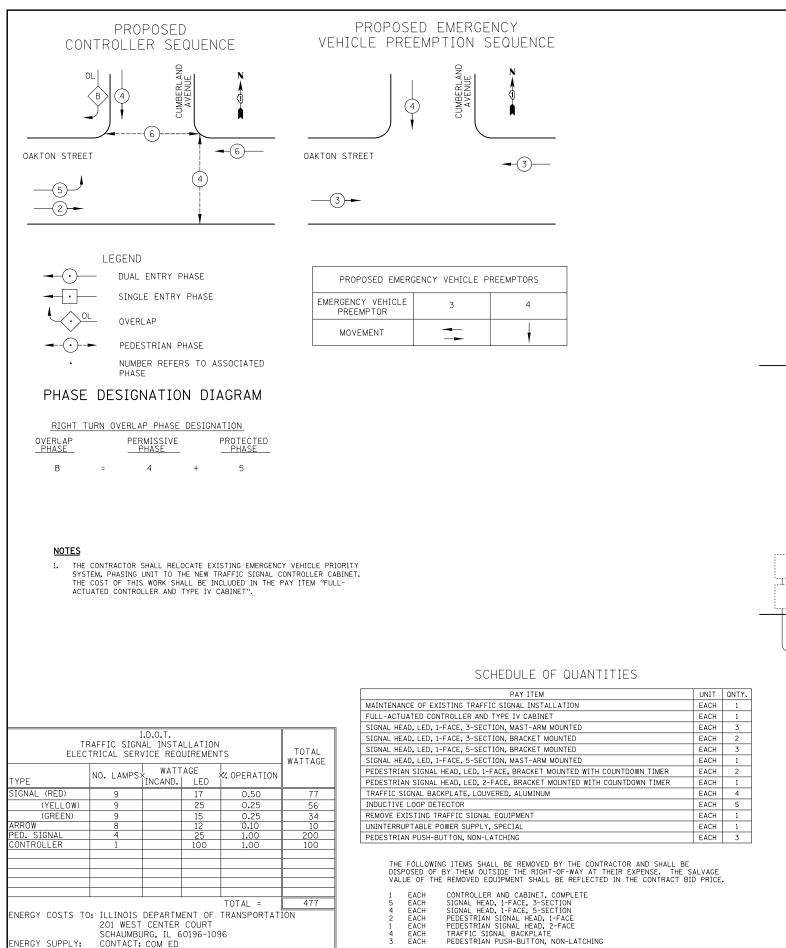
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

				8	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE					
		TOTAL =	579								
ENERGY COSTS TO: ILLI	NOIS DEPARTMENT C	F TRANSPORTA	TION								
	WEST CENTER COUR										
	UMBURG, IL 60196-	1096									
	ACT: COM ED	~									
	IE: (866) 639-353 ANY: COM ED	2									
	USER NAME = jr	t	DESIGN	ED - BRD		REVISED -					
			DRAWN	- JRT		REVISED -	STATE OF ILLINOIS	CABLE PLA	CABLE PLAN, PHASE DESIGNATION		
CIVILTECH	PLOT SCALE = 40	0.0000 ′ / in.	CHECKE	D - JJE		REVISED -	DEPARTMENT OF TRANSPORTATION		IL ROUTE 58 (GOLF R		
CIVILILUI	PLOT DATE = 12	/2/2013	DATE	- 12/02/2013	3	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1		

T WASHINGTON		ROAD		2013-05515			COOK	73		5
						CONTRACT	NO.	60	X	
STA. TO STA.				I	LLINOIS F	ED, AI	D PROJECT			





DESIGNED - BRD

- JRT

JJE

- 12/02/2013

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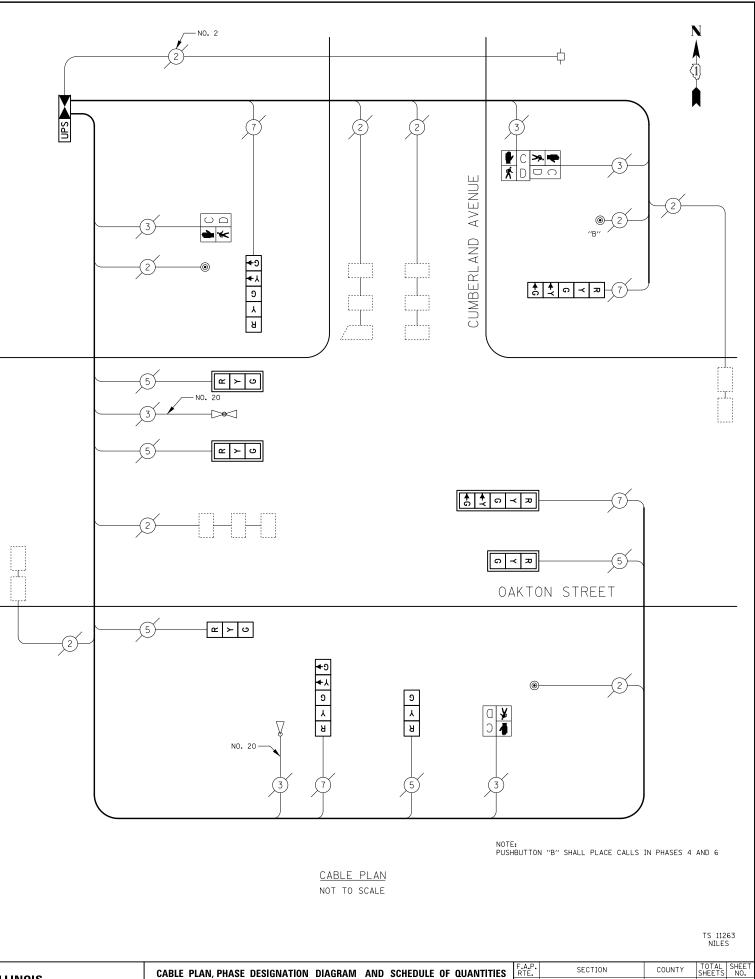
PHONE: (866) 639-3532 COMPANY: COM ED

CIVILTECH

USER NAME = jrt

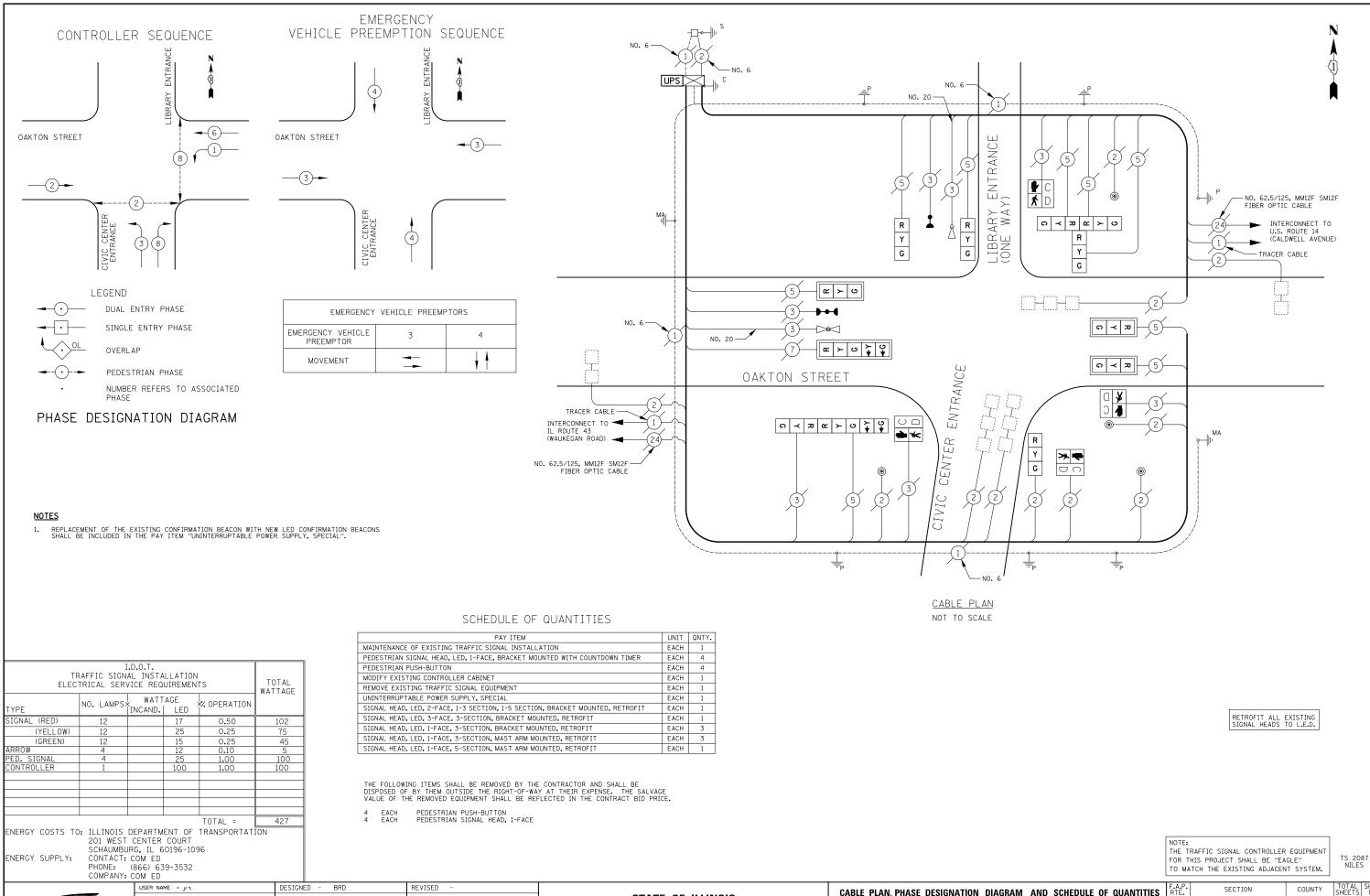
PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 12/2/2013

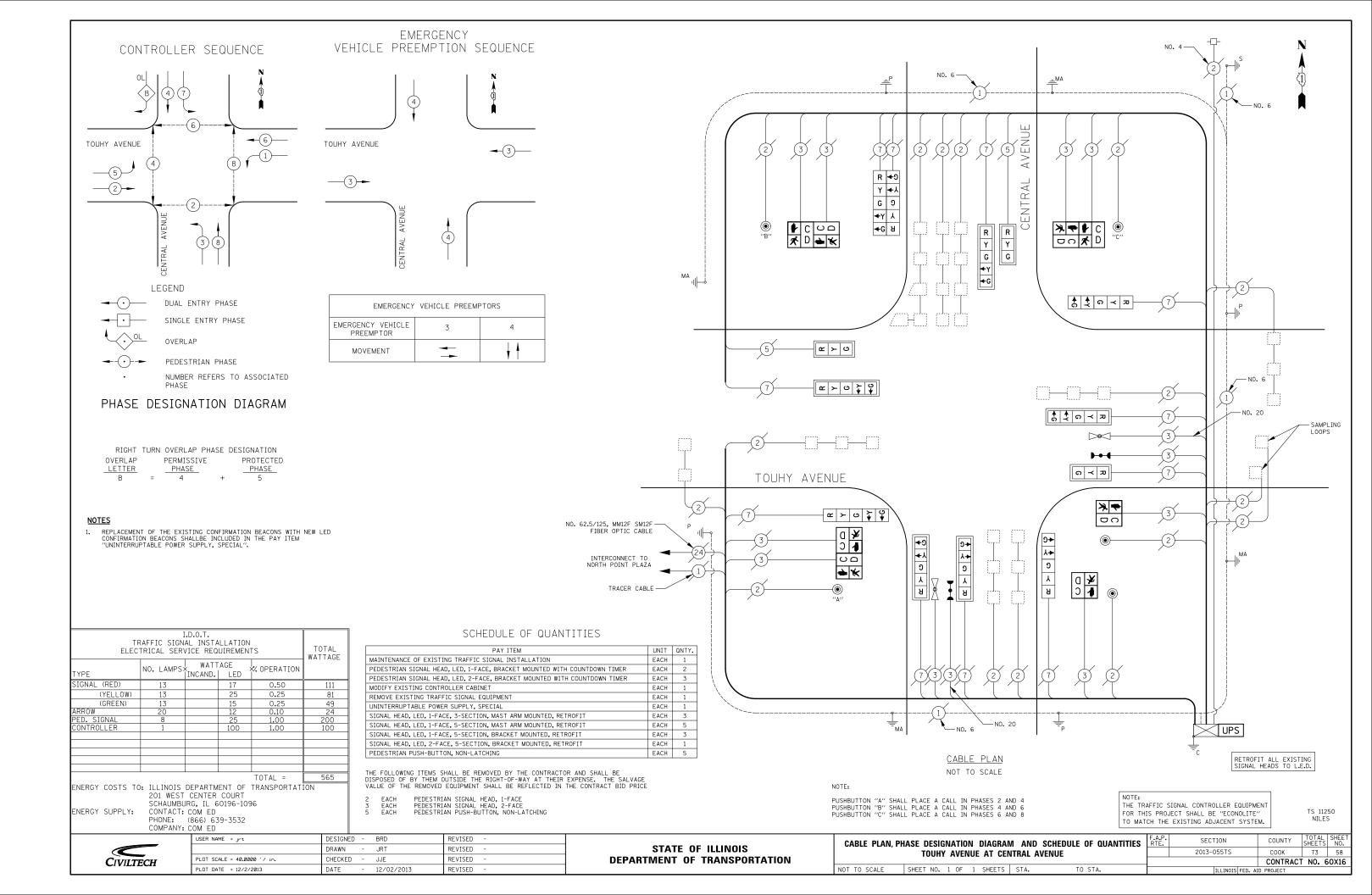


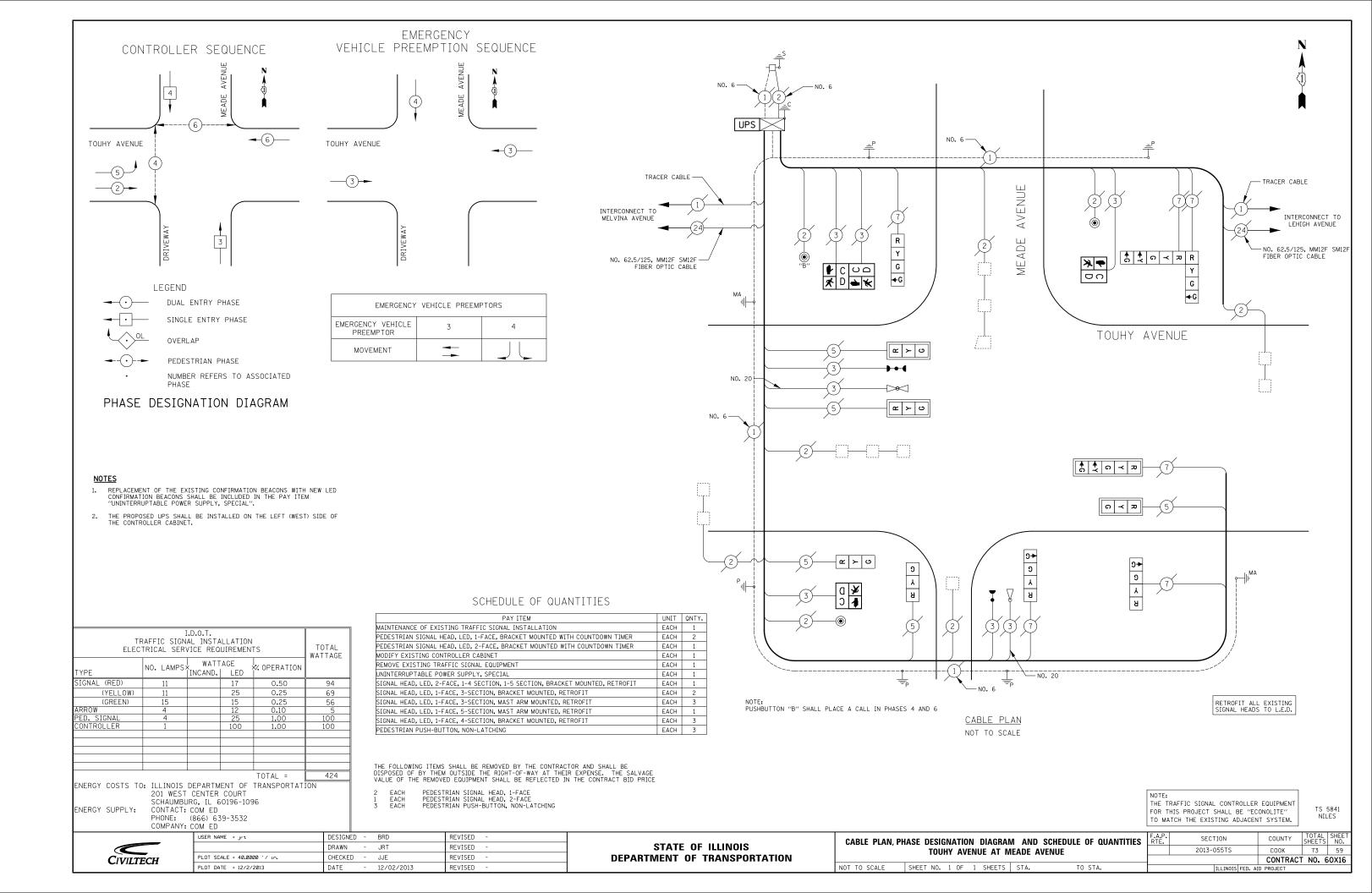
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PH				am and Jmberlan
	NOT TO SCALE	SHEET NO.	1 OF	1 SHEET	S STA.

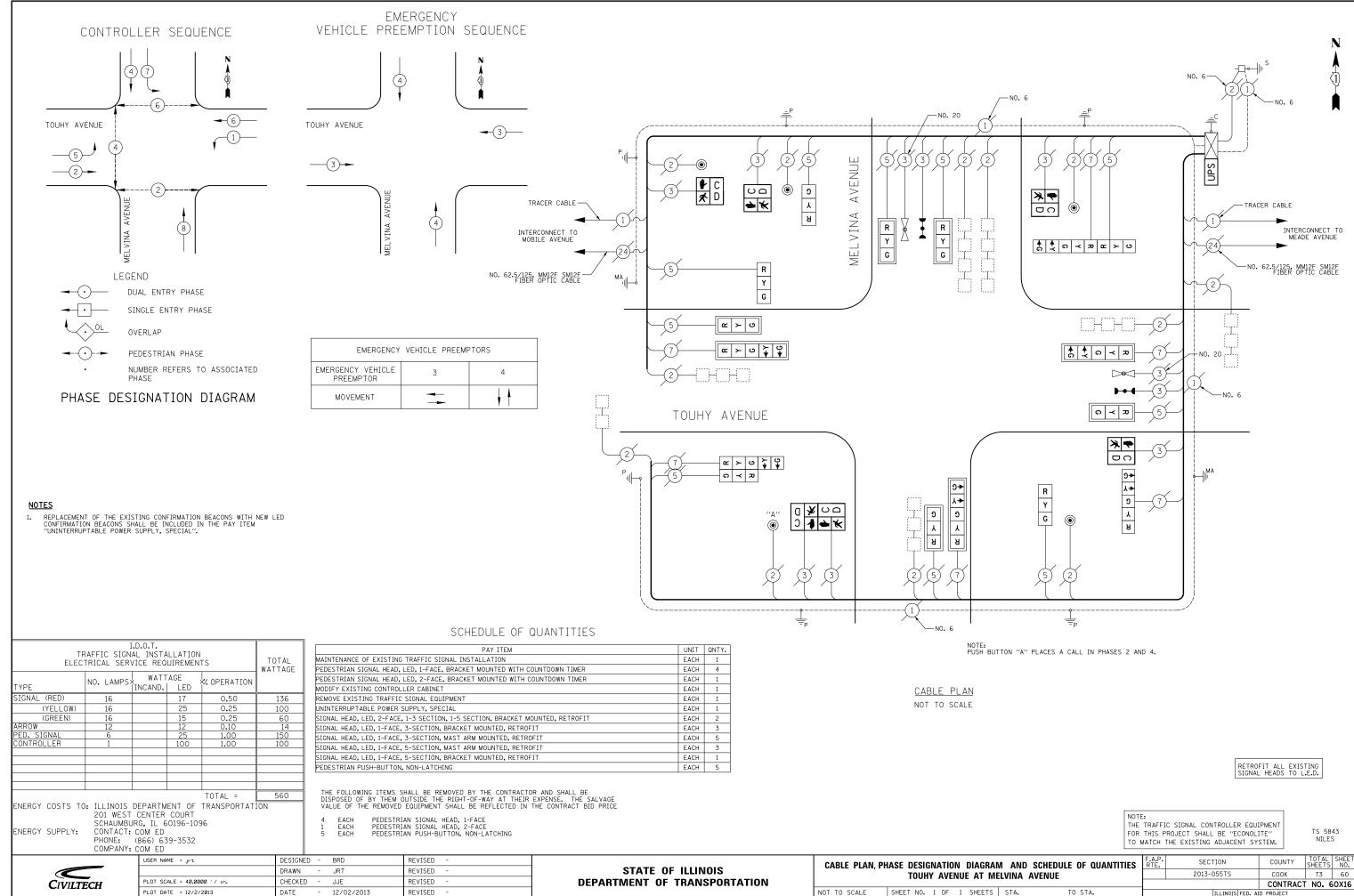
73 56 2013-055TS AND AVENUE COOK CONTRACT NO. 60X16 TO STA. TULINOIS FED ATD PROJECT



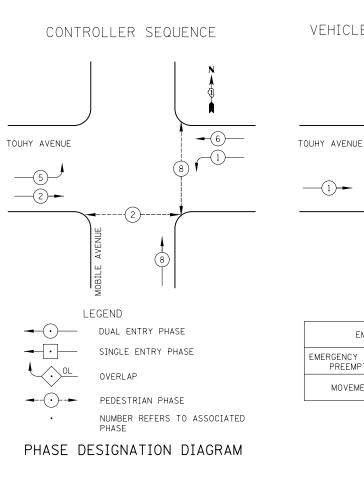
CIVILIECH –	USER NAME = jrt	DESIGNED - BRD)	REVISED -		CABLE PLAN	PHASE DESIGNATION DIAGRAM	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
		DRAWN - JRT	ſ	REVISED -	DEPARTMENT OF TRANSPORTATION		OAKTON STREET AT NILES CIVIC CENTER PLAZA			2013-055TS	соок	73 57
	PLOT SCALE = 40.0000 '/ in.	CHECKED - JJE		REVISED -							CONTRAC	CT NO. 60X16
	PLOT DATE = 12/2/2013	DATE - 12/0	02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.		ILLINOIS FED. A	ID PROJECT	







AM AND SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
AVENUE		2013-055TS	СООК	73	60	
	CONTRACT NO. 60X16					
S STA. TO STA.	ILLINOIS FED. AID PROJECT					



TOTAL WATTAGE

77

56

34

100

X. OPERATION

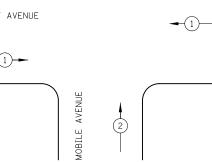
0.50 0.25

0.25

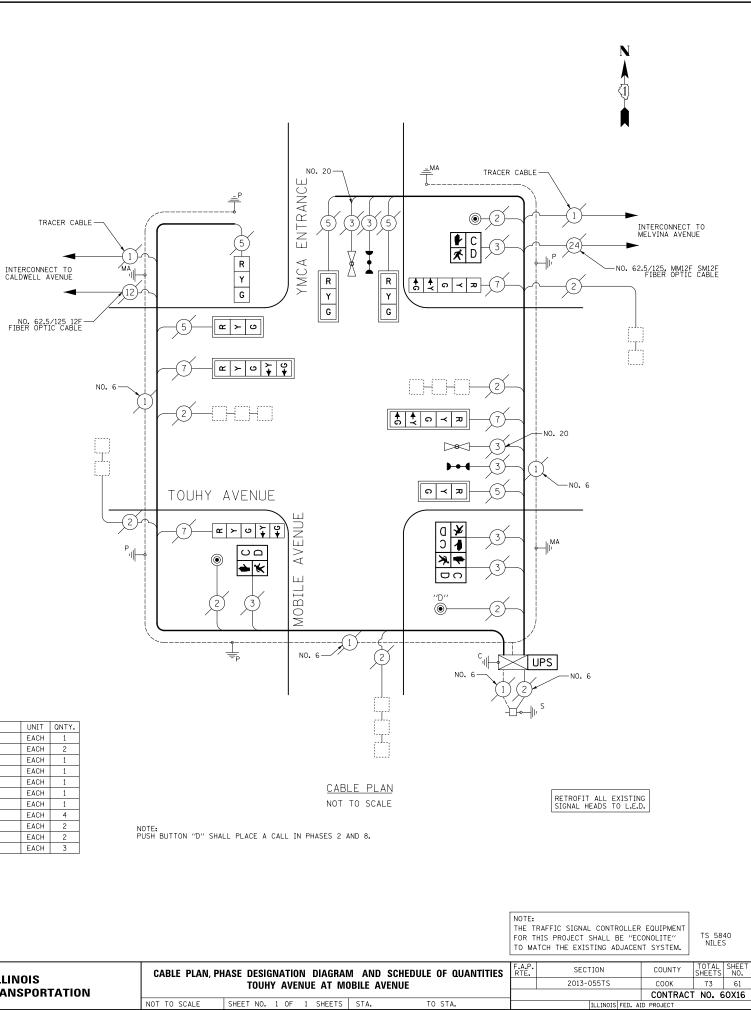
1.00

1.00





EMERGENCY	VEHICLE PREEMP	PTORS
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	4 +	Å



IYPE SIGNAL (RED)

ARROW ED. SIGNAL

(YELLOW)

(GREEN)

ENERGY SUPPLY:

<u>NOTES</u>

REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".

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

NO. LAMPS | WALLASE |INCAND. | LED

CONTACT: COM ED

17

25

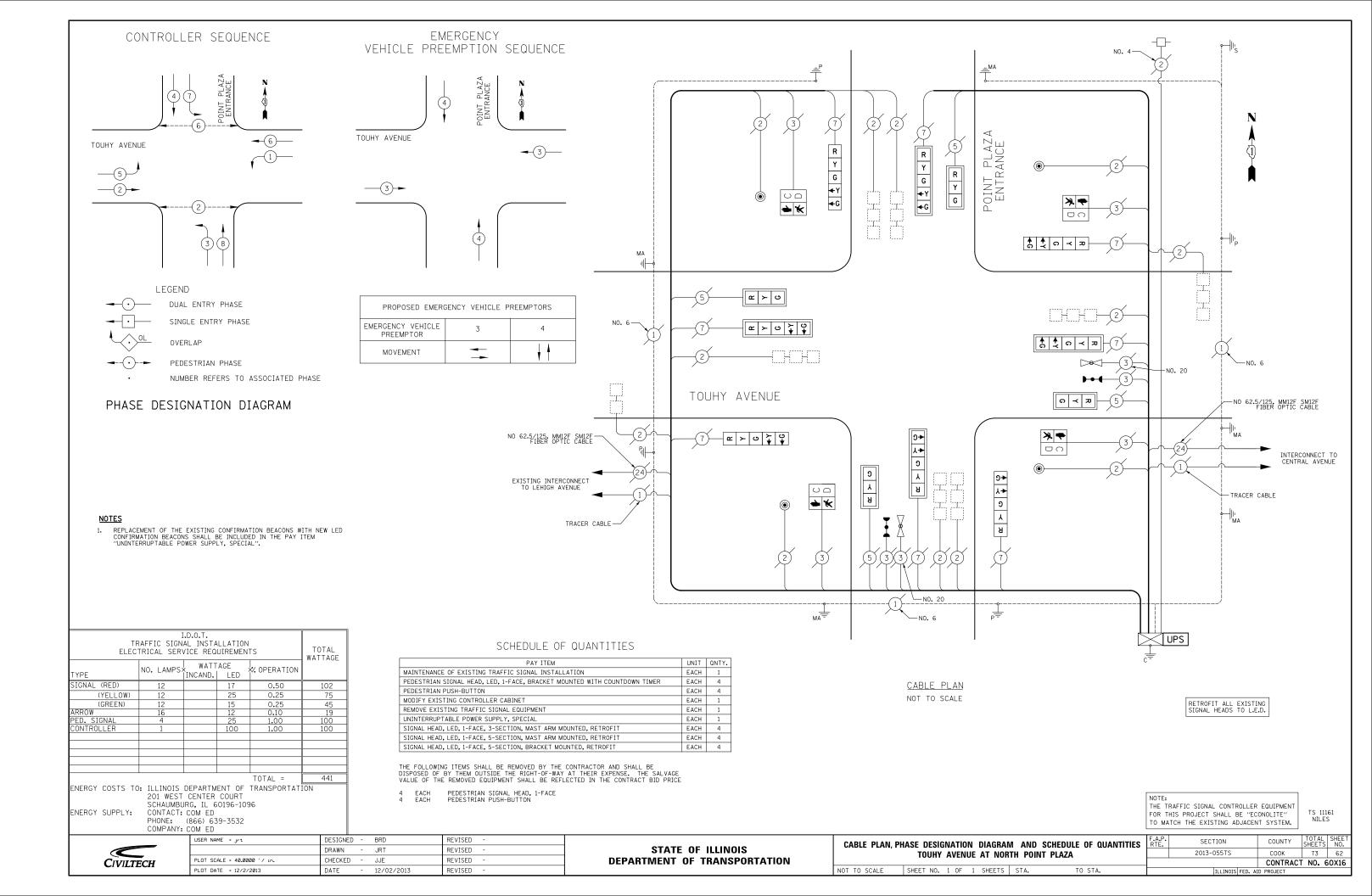
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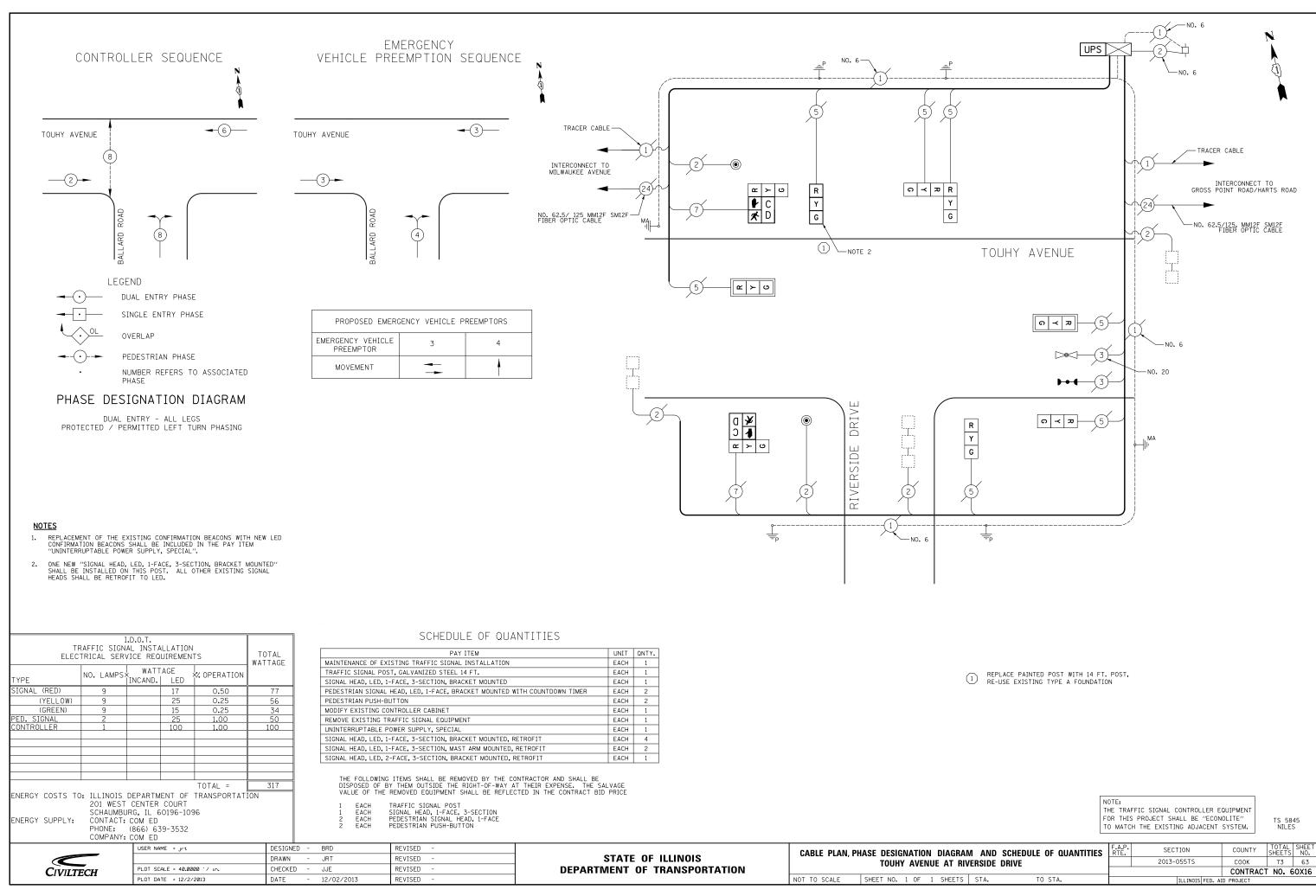
PAY ITEM	UNIT	QN
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	
MODIFY EXISTING CONTROLLER CABINET	EACH	
REMOVE EXISTING TRAFFIC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

THE SALVAGE

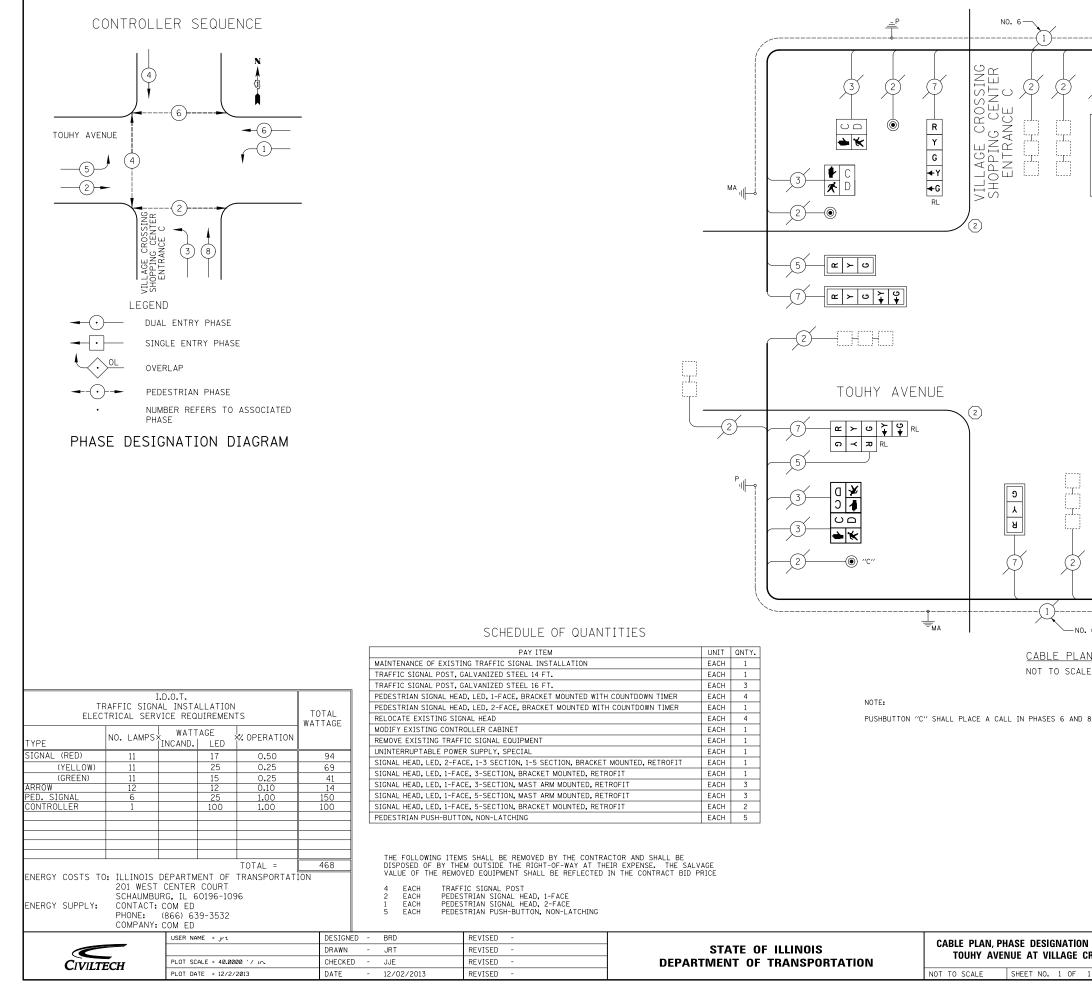
					THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL
					DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE
					VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT
			TOTAL =	377	
ENERGY ARGE TO			TRANSPORTAT.		2 EACH PEDESTRIAN SIGNAL HEAD. 1-FACE
ENERGY COSTS TO	: ILLINOIS DEP,	ARIMENI OF	TRANSPORTAT	ION	1 EACH PEDESTRIAN SIGNAL HEAD. 2-FACE
	201 WEST CEN	NTER COURT			3 EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING
	SCHAUMBURG,	IL 60196-109	6		
ENERGY CURRENT	CONTACT OOL				

PHONE: (866) 639-3532 COMPANY: COM ED USER NAME = jrt DESIGNED - BRD REVISED STATE OF ILLINOIS CIVILTECH DRAWN - JRT REVISED PLOT SCALE = 40.0000 '/ in. CHECKED JJE REVISED **DEPARTMENT OF TRANSPORTATION** DATE - 12/02/2013 PLOT DATE = 12/2/2013 REVISED





/ 6	ENGINE UNIVE			2010	00010		0000	10	
						CONTRACT	NO.	6	
	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		-



TOUHY AVENUE AT VILLAGE CROSSING SHOPPING CENTER ENTRANCE C

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VILLAGE CRC SHOPPING CI ENTRANCE

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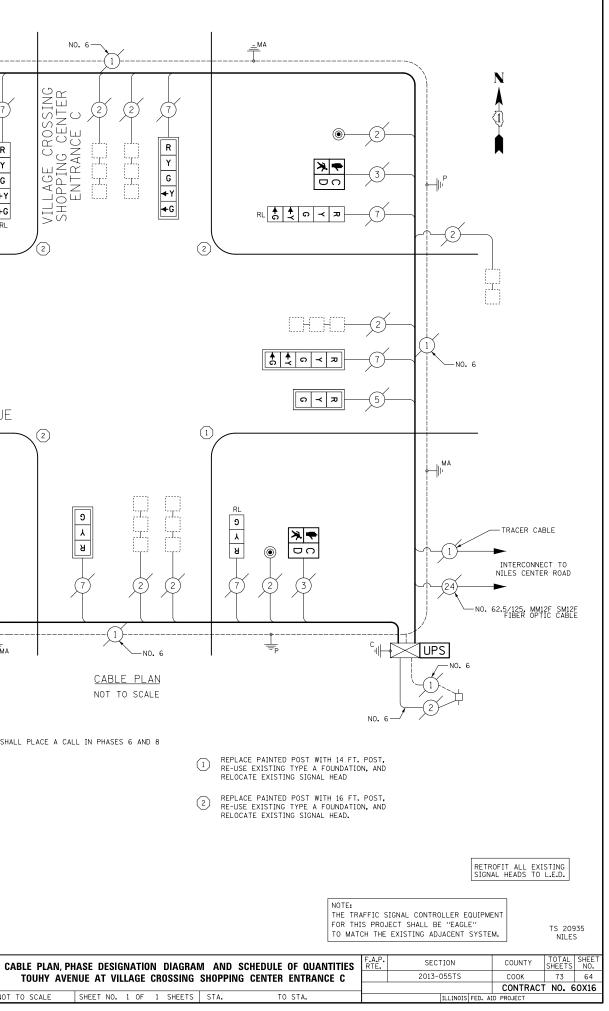
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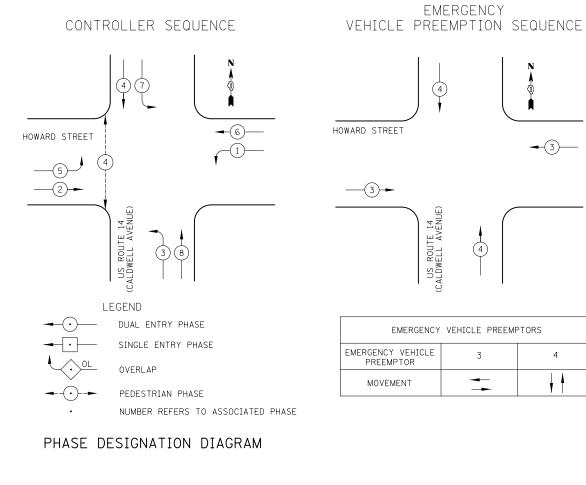
CABLE PLAN

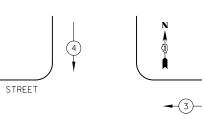
NOT TO SCALE

(2

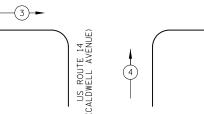
NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA.



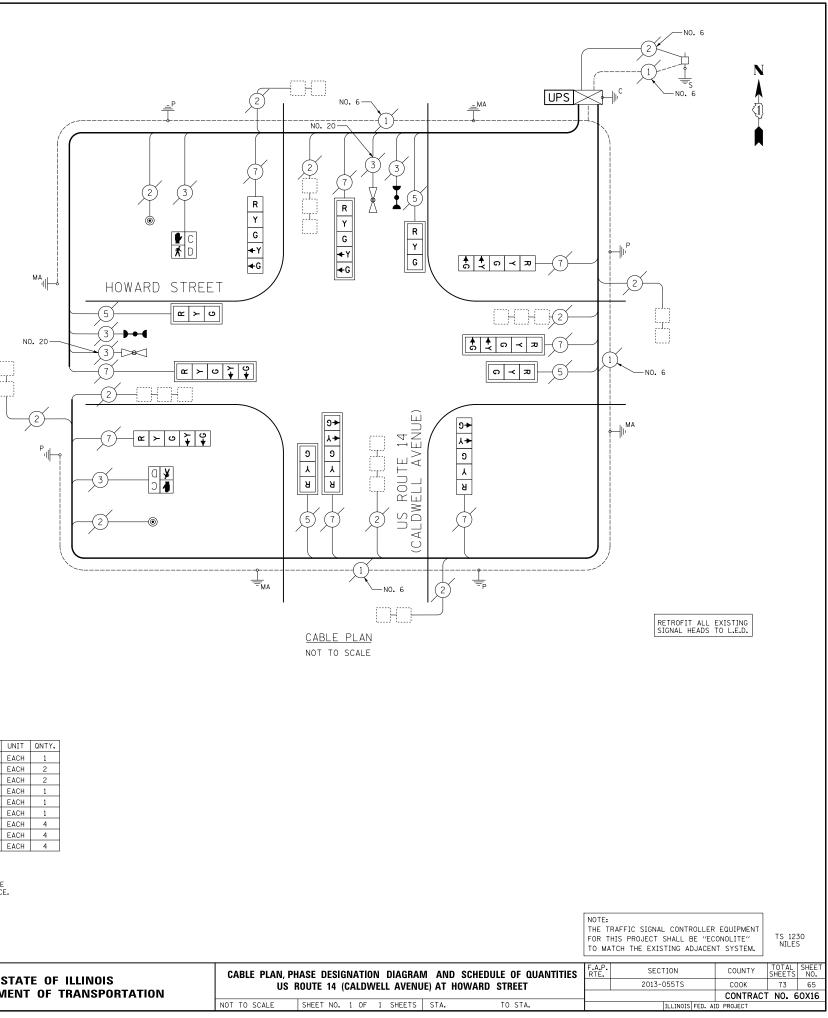




EMERGENCY



EMERGENCY	VEHICLE PREEMF	TORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	-	↓ ↓



- <u>NOTES</u>
- 1. REPLACEMENT OF THE EXISTING CONFIRMATION BEACON WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".

TF ELEC	TOTAL					
TYPE	NO. LAMPS×	WATT INCAND.		X OPERATION		
SIGNAL (RED) (YELLOW)	12 12		17 25	0.50		102 75
(GREEN) ARROW	12 16		15 12	0.25 0.10		45 19
PED. SIGNAL CONTROLLER	2		25 100	1.00		50 100
				TOTAL =		391
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096 ENERGY SUPPLY: CONTACT: COM ED PHONE: (866) 639-3532 COMPANY: COM ED						
		USER NA	ME = jrt			DESIGNE
	CU	PLOT SC	ALE = 40.00	00 ′ / in.		DRAWN CHECKEI
CIVILII	сп	PLOT DA	TE = 12/2/	2013		DATE

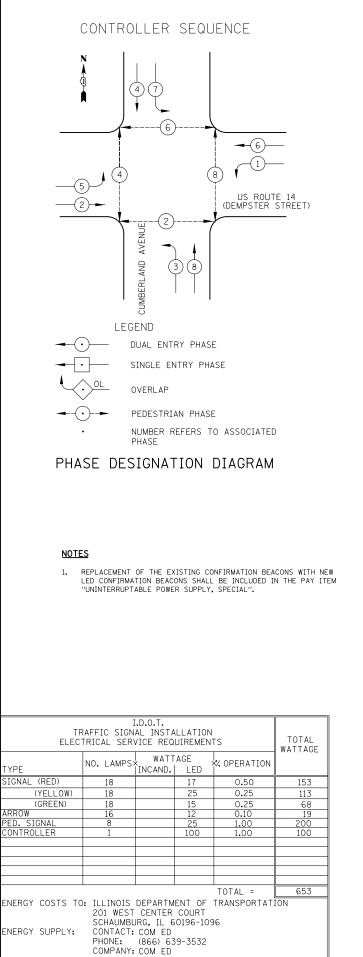
SCHEDULE OF QUANTITIES

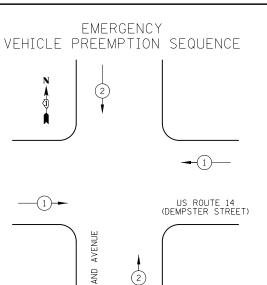
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER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

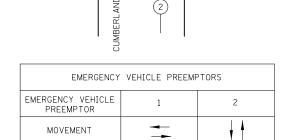
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

	JOIN ED						
	USER NAME = jrt	DESIGNED - BRD	REVISED -		CABLE PLAN, PHASE DESIGNATION DIAGE		
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	US F		
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION	03 F	GALDWELL AVENUE	
er vier een	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS	





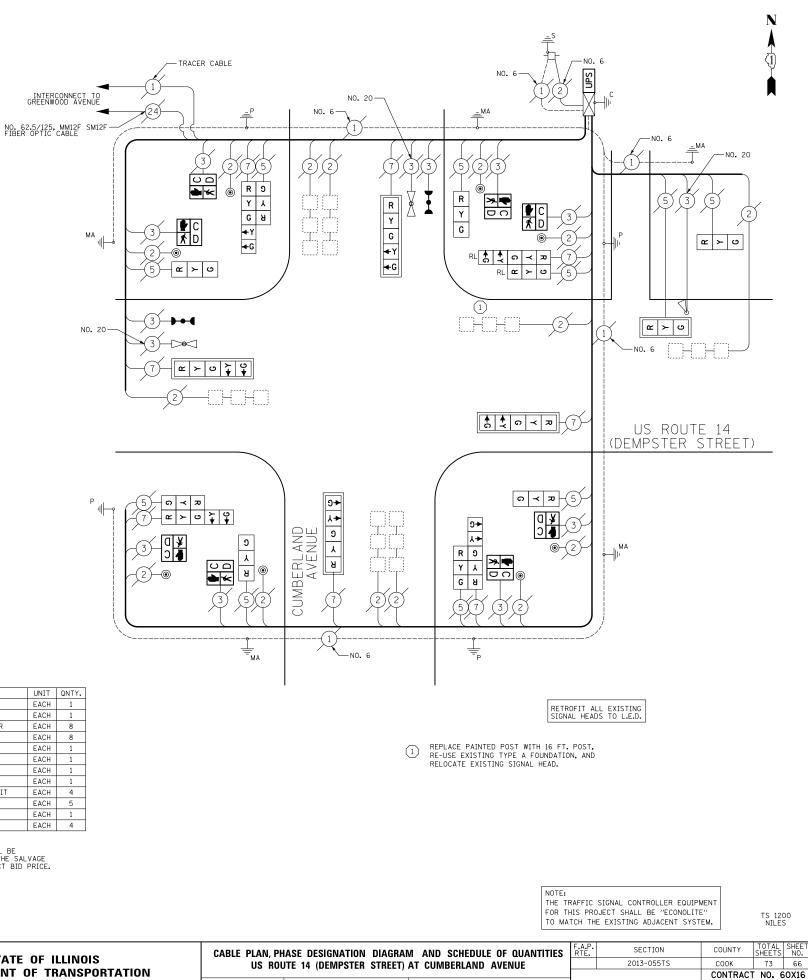


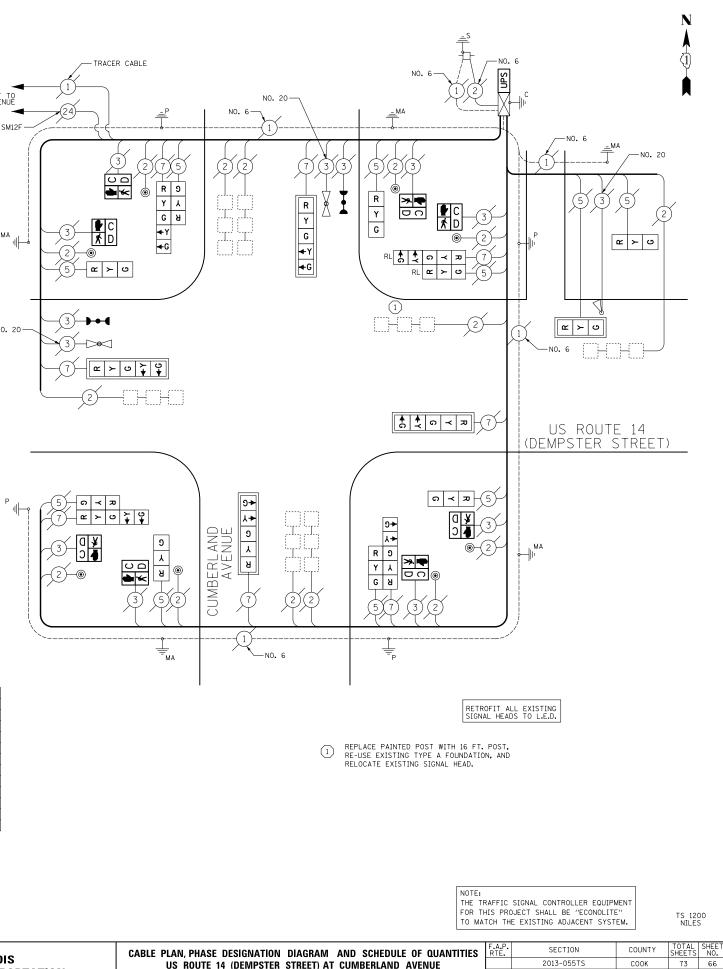
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FIRE LANE

FIRE LANE INTERVAL

MOVEMENT





TO STA.

TULINOIS FED ATD PROJECT

SCHEDULE OF QUANTITIES

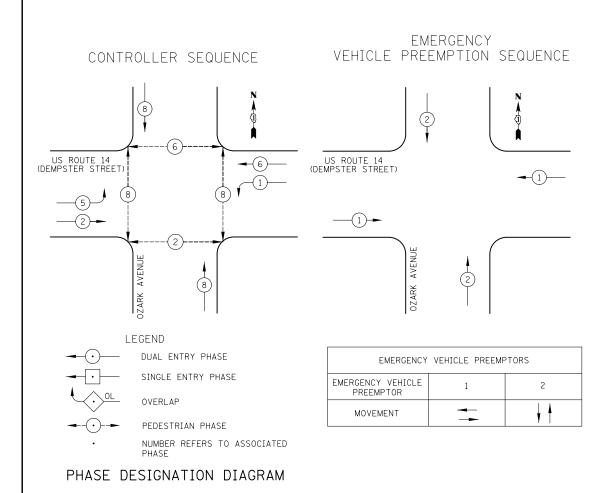
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
RELOCATE EXISTING SIGNAL HEAD	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4

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.

TRAFFIC SIGNAL POST PEDESTRIAN SIGNAL HEAD, 1-FACE PEDESTRIAN PUSH-BUTTON EACH

EACH

	USER NAME = jrt PLOT SCALE = 40.0000 '/ in.	DESIGNED - BRD DRAWN - JRT CHECKED - JJE	- JRT REVISED - STATE OF ILLINOIS		HASE DESIGNATION DIAGRAI UTE 14 (DEMPSTER STREET)		
CIVILTECH	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -	DEFARIMENT OF TRANSFORTATION	NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS	STA.



<u>NOTES</u>

TYPE SIGNAL

RROW D. SIONTROL

ENERGY

ENERGY

- ONE NEW "SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED" SHALL BE INSTALLED ON THE NEW POSTS AT THE NORTHWEST AND SOUTHEAST CORNERS. ALL OTHER EXISTING SIGNAL HEADS SHALL BE RETROFIT TO LED. 1.
- REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL". 2.
- THE CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTSEM, DETECTOR UNIT TO THE NEW TRAFFIC SIGNAL POST. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC SIGNAL POST, GALVANIZED STEEL" OF THE HEIGHT SPECIFIED. 3.

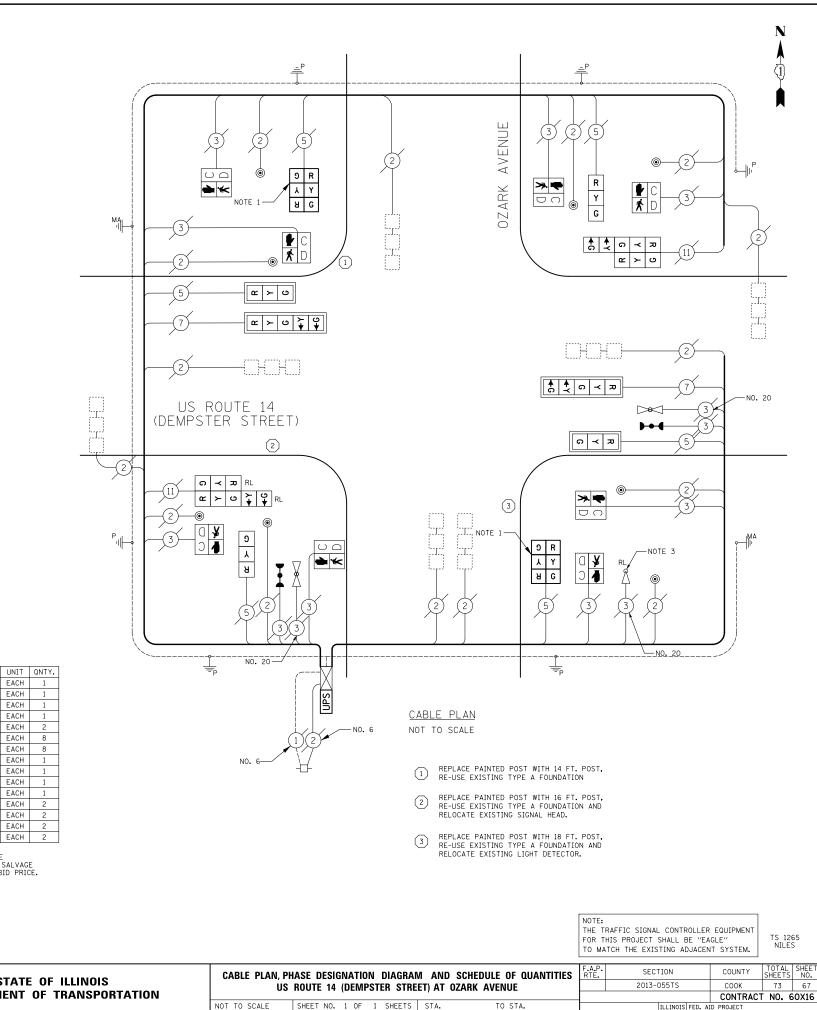


								MAINTEN	JANCE
								TRAFFIC	SIGN
								TRAFFIC	SIGN
								TRAFFIC	SIGN
]	.D.O.T.						SIGNAL	HEAD,
TR	RAFFIC SIGN	AL INSTA	LLATION					PEDESTR	RIAN S
ELEC	TRICAL SER	/ICE REQ	UIREMEN [®]	ΓS		TAL		PEDESTR	RIAN F
		. WATT	ACE		WAI	TAGE		RELOCAT	LE EXI
	NO. LAMPS:	LINCAND.		🛠 OPERATION				MODIFY	EXIST
		INCAND.		0.50		110		REMOVE	EXIST
(RED)	14		17	0.50		119		UNINTER	RUPT
(YELLOW)	14		25	0.25		88		SIGNAL	HEAD,
(GREEN)	14		15	0.25		53		SIGNAL	HEAD,
GNAL	8		12 25	0.10	<u> </u>	10 200		SIGNAL	HEAD.
LLER	1		100	1.00		100		SIGNAL	HEAD.
LLLN	-		100	1.00		100			
									THE F
									DISPO
									VALUE
									3 1
				TOTAL =	,	570			3 2 8
COSTS TO				TRANSPORTAT	ION				8 1
	201 WEST								
	SCHAUMBL		0196-109	16					
SUPPLY:	CONTACT:								
	PHONE: COMPANY:	(866) 63	9-3532						
	COMPANT						-		
		USER NA	ME = jrt			DESIGNE	.D -	BRD	
						DRAWN	-	JRT	

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
RELOCATE EXISTING SIGNAL HEAD	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	2

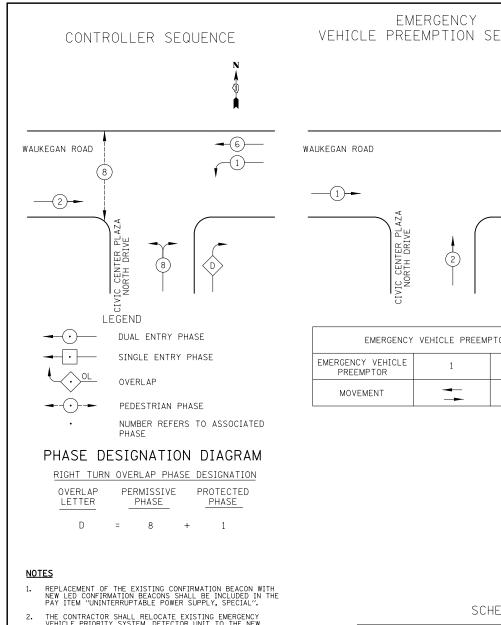
FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE POSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE UE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

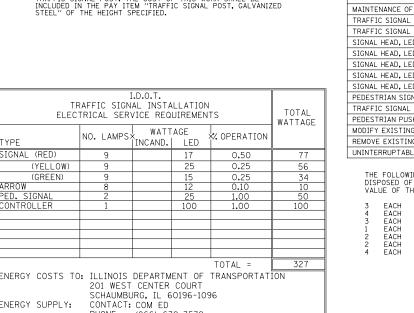
- EACH EACH EACH EACH TRAFFIC SIGNAL POST SIGNAL HEAD, 2-FACE, 2-3 SECTION PEDESTRIAN PUSH-BUTTON PEDESTRIAN SIGNAL HEAD, 1-FACE



TULINOIS FED ATD PROJECT

	JOIN ED					
	USER NAME = jrt	DESIGNED - BRD	REVISED -			ASE DESIGNATION DIAGRAM
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	US R	
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION	03 10	OUL 14 (DEMPSIER SINCE)
CIVILILEII	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE S	SHEET NO. 1 OF 1 SHEETS 5



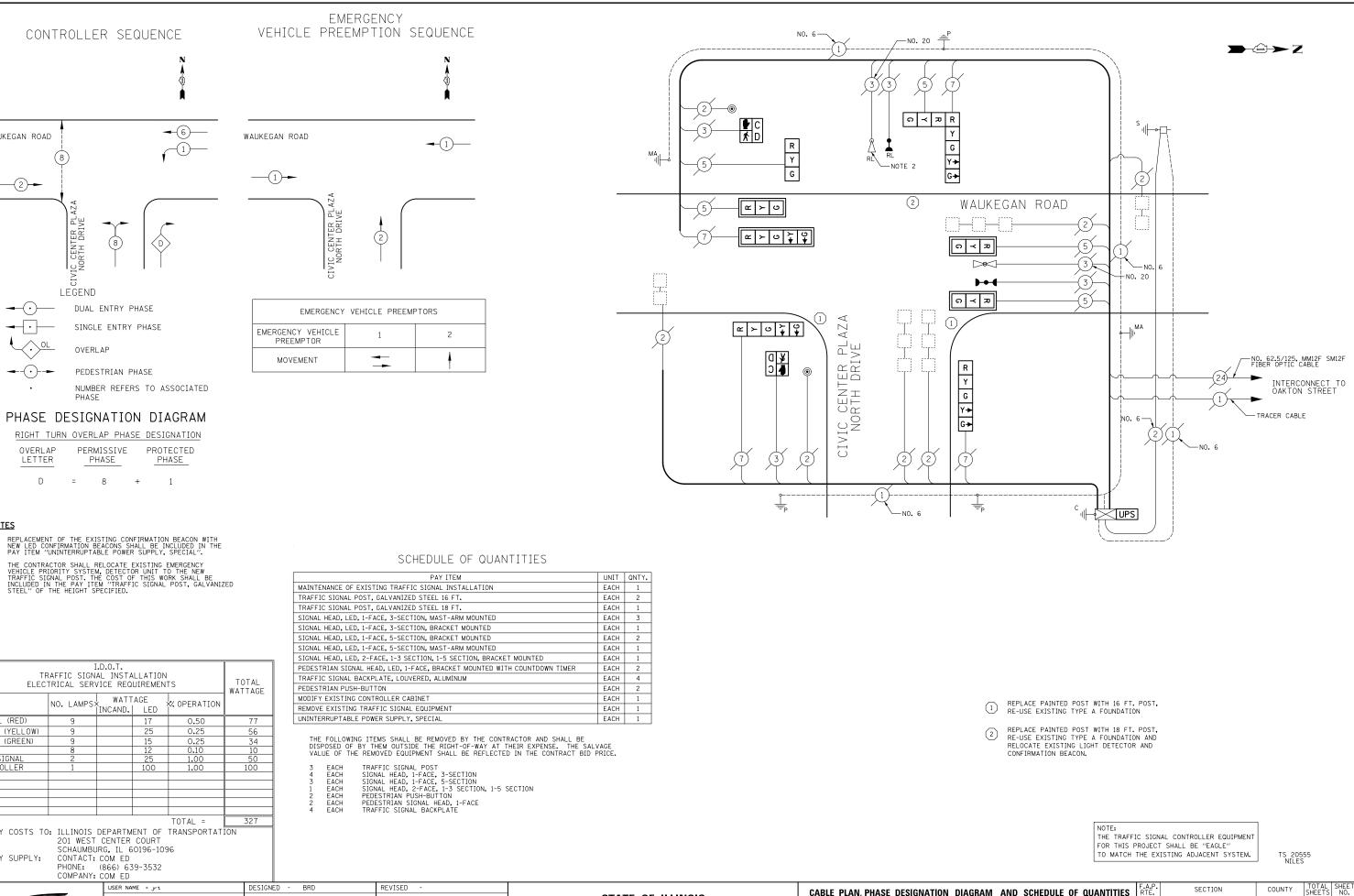


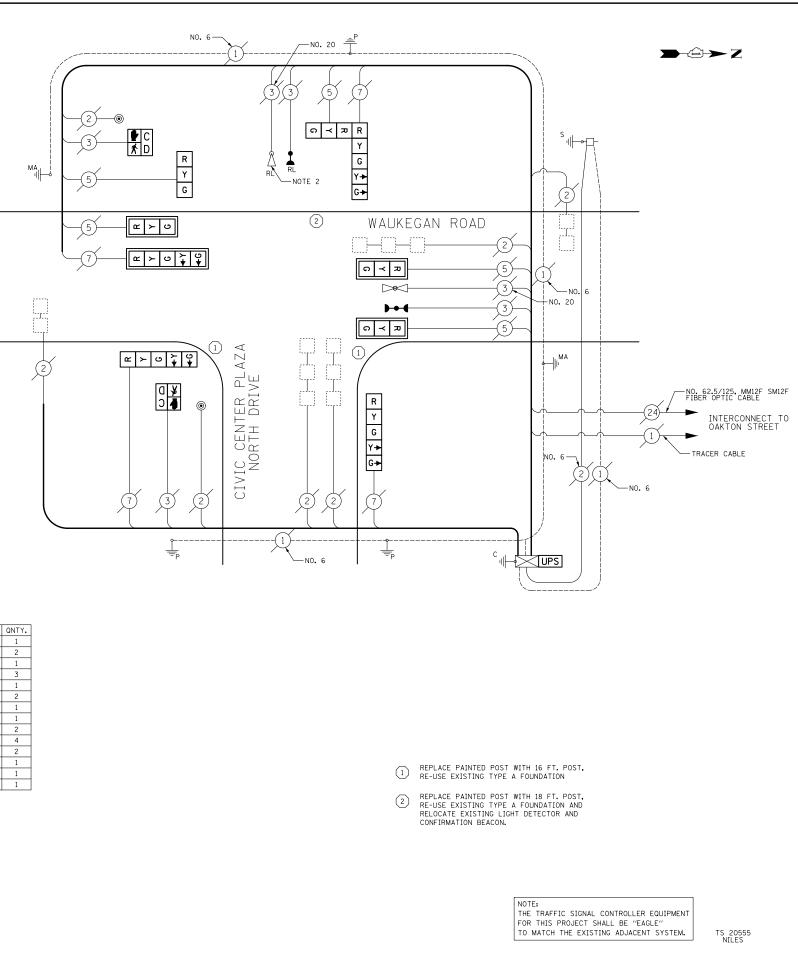
EXPE

ARROW



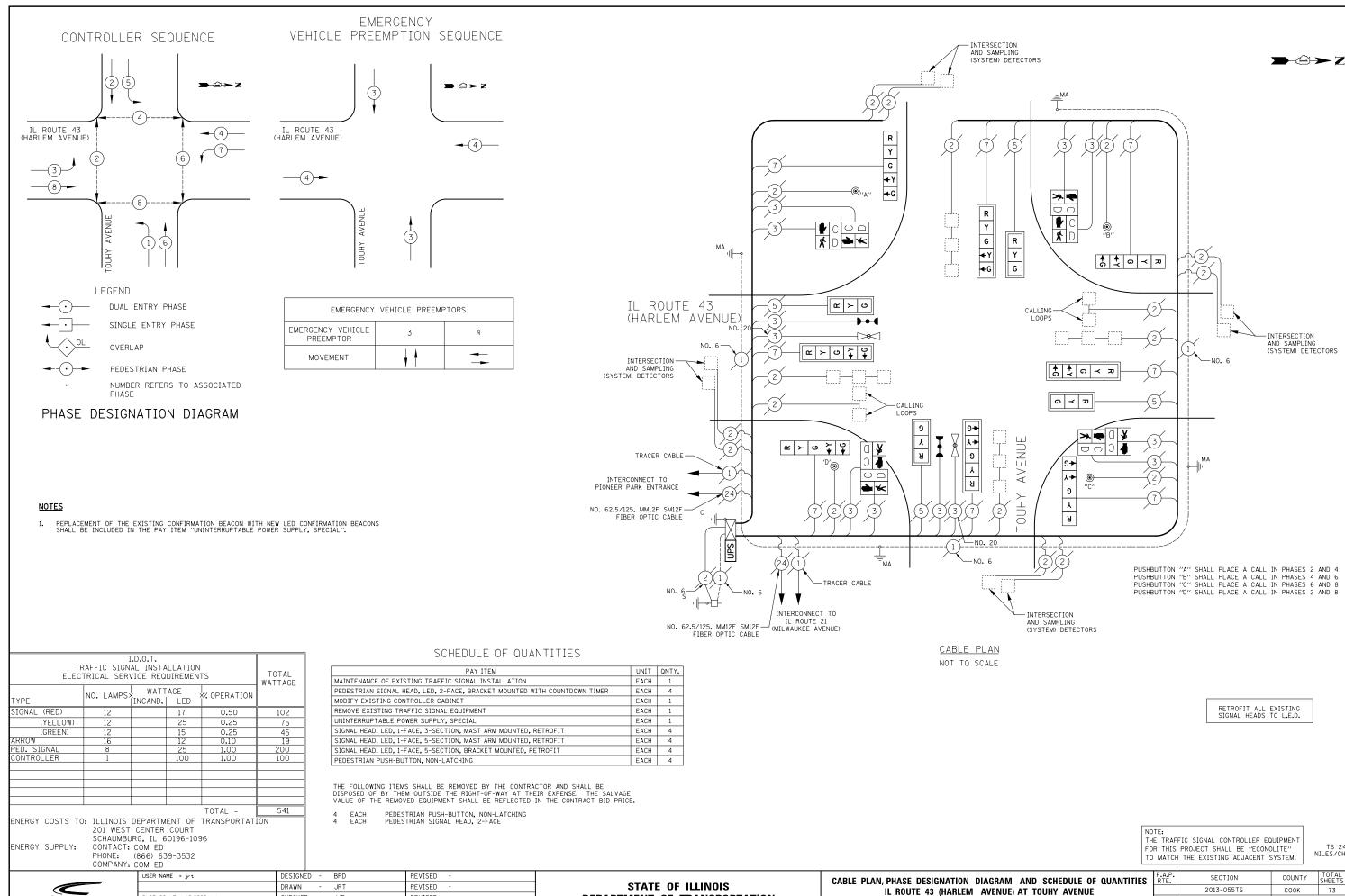
PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1





	JOIN ED				
	USER NAME = jrt	DESIGNED - BRD	REVISED -		CABLE PLAN, PHASE DESIGNATION D
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	WAUKEGAN ROAD AT
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION	WAOKEGAN HOAD AT
CIVILILEII	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE SHEET NO 1 OF 1 S

N DIAGRAM AND SCHEDULE OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AT NILES CIVIC CENTER PLAZA			2013-055TS	СООК	73	68
				CONTRACT	NO. 6	60X16
1 SHEETS STA.	TO STA.	ILLINOIS FED. AID PROJECT				



IL ROUTE 43 (HARLEM AVENU **DEPARTMENT OF TRANSPORTATION** NOT TO SCALE SHEET NO. 1 OF 1 SHEETS

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 12/2/2013

CIVILTECH

CHECKED

DATE

JJE

- 12/02/2013

REVISED

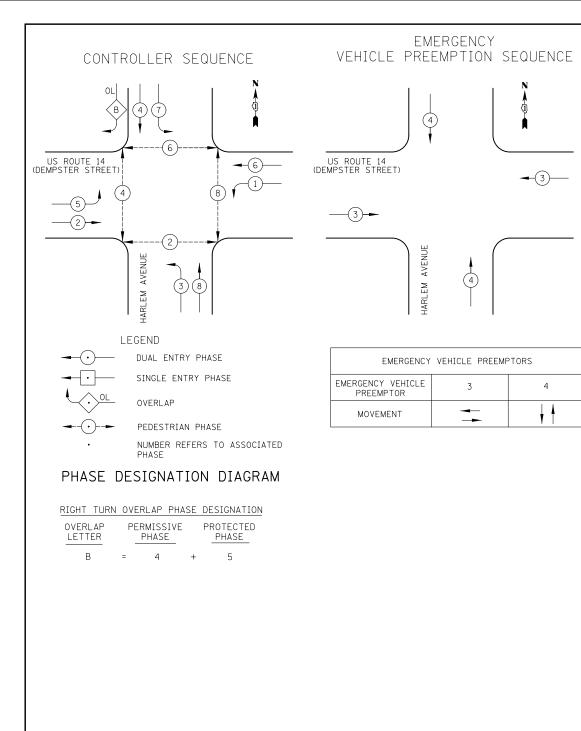
REVISED

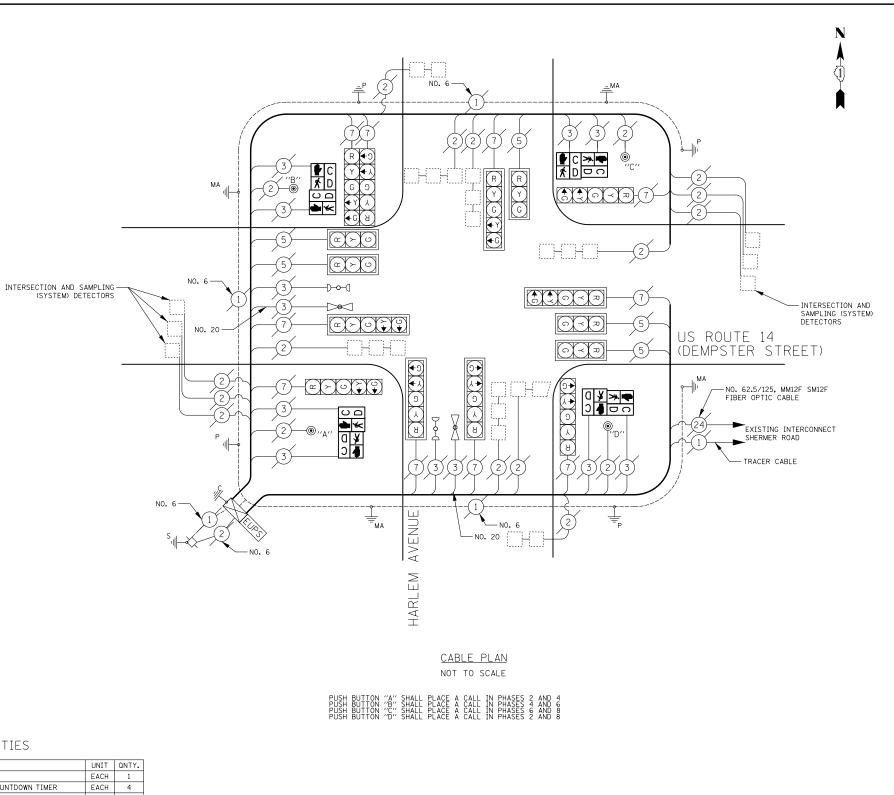




	FOR THIS	FIC SIGNAL CONTROLLER EC PROJECT SHALL BE "ECONC H THE EXISTING ADJACENT S	DLITE"	TS 24 NILES/CH	
AND SCHEDULE OF QUANTITIE	S F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

AM AND SCHEDULE OF QUANTITIES NUE) AT TOUHY AVENUE		RTE.	SECTION	CODINIT	SHEETS	NO.
			2013-055TS	СООК	73	69
				CONTRACT	NO. 6	0X16
S	STA. TO STA.	ILLINOIS FED. AID PROJECT				





I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS:	WATT	AGE LED	COPERATION		
SIGNAL (RED)	15		17	0.50		128
(YELLOW)	15		25	0.25		94
(GREEN)	15		15	0.25		56
ARROW PED. SIGNAL	20		12 25	0.10	- ·	24 200
CONTROLLER	0		100	1.00		100
				TOTAL =		602
ENERGY COSTS TO	201 WEST SCHAUMBL CONTACT:	CENTER JRG, IL 6 COM ED (866) 63	COURT 0196-109		ION	
		USER NA	ME = jrt			DESIG
C						DRAW
CIVILT	ECU	PLOT SC	ALE = 40.00	20 ′ / In.		CHECK
CIVILI	ECH					

SCHEDULE OF QUANTITIES

PAY ITEM				
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	4		

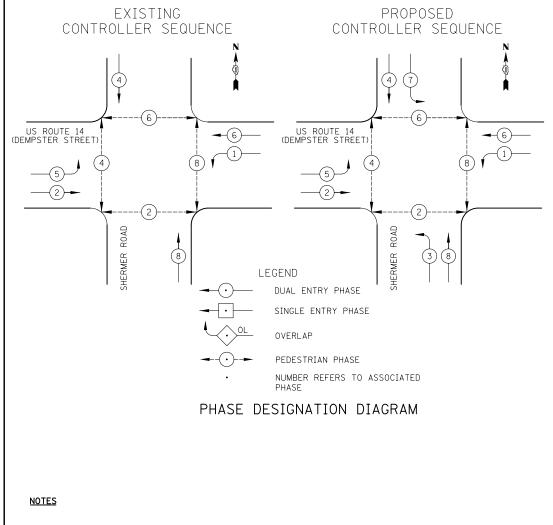
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

PEDESTRIAN PUSH-BUTTON, NON-LATCHING PEDESTRIAN SIGNAL HEAD, 2-FACE 4 EACH 4 EACH

COMPANY	COM ED							
	USER NAME = jrt	DESIGNED - BRD	REVISED -		CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES	F.A.P. RTF.	SECTION C	OUNTY TOTAL SHEET
		DRAWN - JRT	REVISED -	STATE OF ILLINOIS	US ROUTE 14 (DEMPSTER STREET) AT HARLEM AVENUE		2013-055TS (COOK 73 70
CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -	DEPARTMENT OF TRANSPORTATION	03 NOOTE 14 (DEMI STEIL STREET) AT HARLEN AVENUE			ONTRACT NO. 60X16
C. / El Edi	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PRO	DJECT

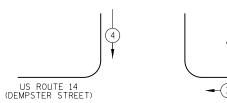
NOTE: THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

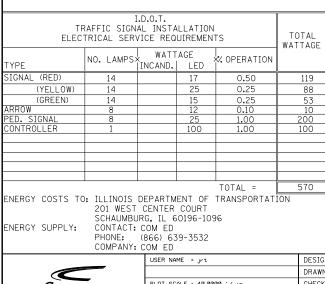
TS 1220 NILES/ MORTON GROVE

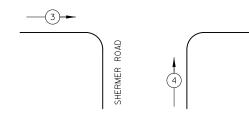


- THE CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, 1. DETECTOR UNIT TO THE NEW TRAFFIC SIGNAL POST. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC SIGNAL POST, GALVANIZED STEEL" OF THE HEIGHT SPECIFIED.
- THE CONTRACTOR SHALL INSTALL NEW ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14. 7C TO THE NEW 5-SECTION SIGNAL HEADS ON THE NORTHWEST AND SOUTHEAST CORNERS. THIS COST SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC SIGNAL POST, GALVANIZED STEEL" OF THE HEIGHT SPECIFIED. 2.
- THE CONTRACTOR SHALL REMOVE THE ELECTRIC CABLE FROM CONDUIT AND INSTALL NEW ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14. 7C TO THE NEW 5-SECTION SIGNAL HEADS ON THE NORTHEAST AND SOUTHWEST CORNERS. THIS COST SHALL BE INCLUDED IN THE PAY ITEM "TRAFFIC SIGNAL POST, GALVANIZED STEEL" OF THE HEIGHT SPECIFIED. 3.
- THE CONTRACTOR SHALL MODIFY THE SIGNAL PHASING. THIS COST SHALL BE INCLUDED IN 4. THE PAY ITEM "MODIFY EXISTING CONTROLLER CABINET".

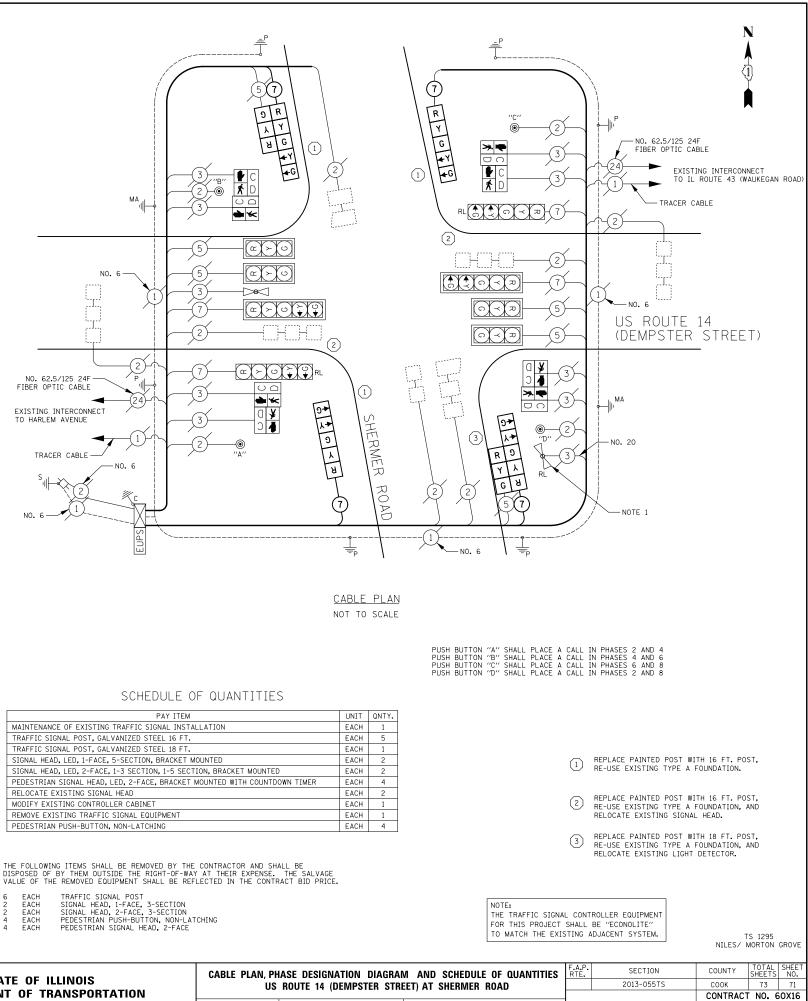








EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4			
MOVEMENT	+ +	↓ ↑			



TO STA

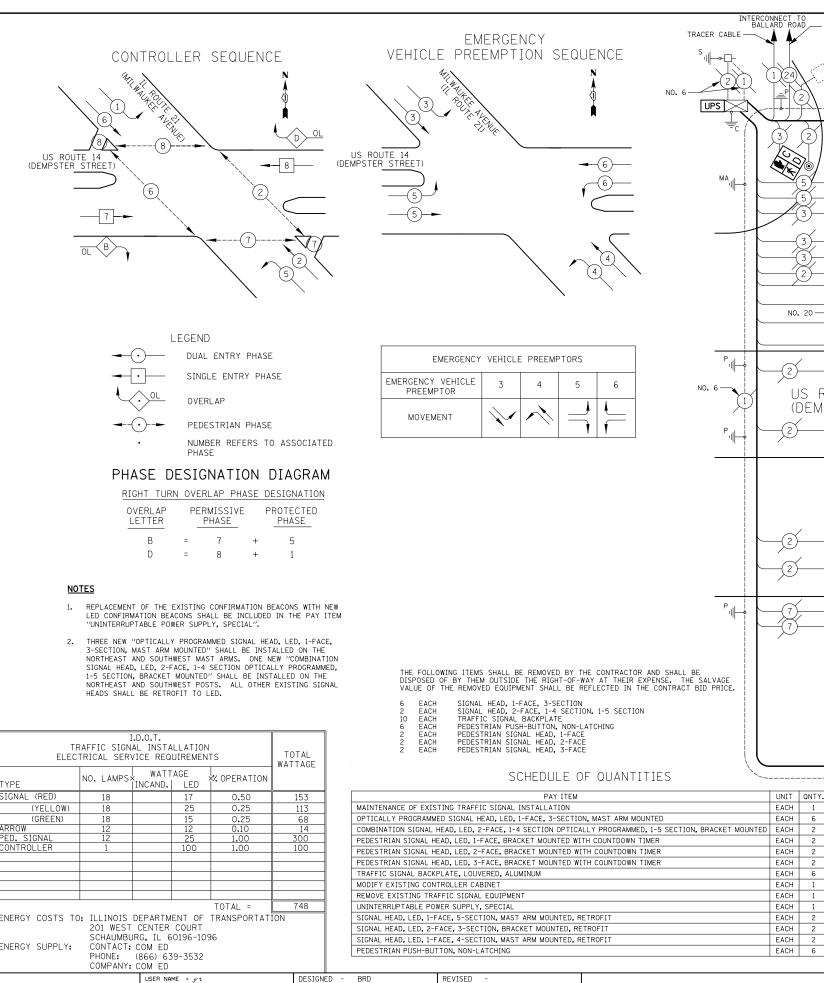
TULINOIS FED ATD PROJECT

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
RELOCATE EXISTING SIGNAL HEAD	EACH	2
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	4

E A C H

4

CIVILTECH	USER NAME = jrt PLOT SCALE = 40.0000 ' / in.	DESIGNED - BRD DRAWN - JRT CHECKED - JJE	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM AND US ROUTE 14 (DEMPSTER STREET) AT S
CIVILIECII	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -	N	NOT TO SCALE SHEET NO. 1 OF 1 SHEETS STA.



YPF

RROW

SIGNAL (RED)

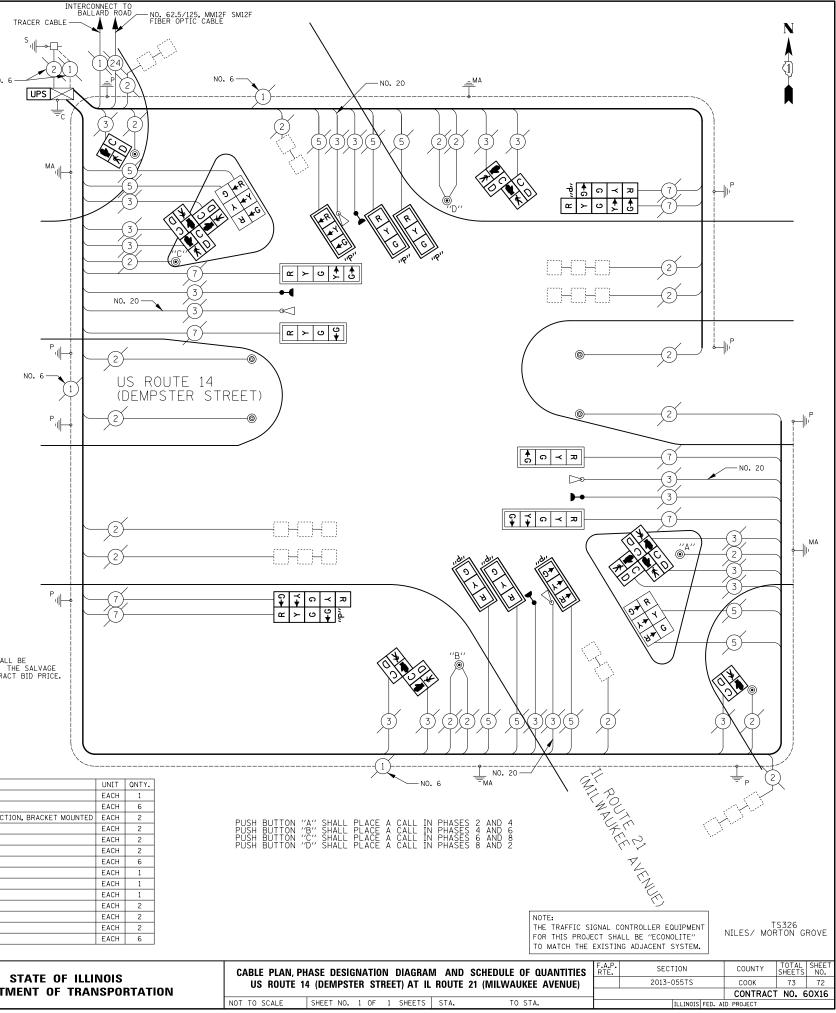
ED. SIGNAL ONTROLLER

<

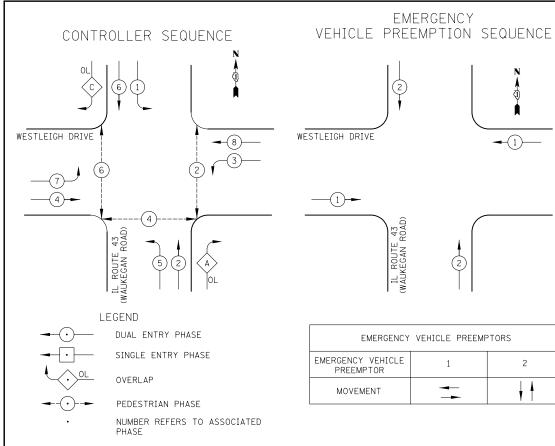
CIVILTECH

PLOT SCALE = 40.0000 '/ in.

PLOT DATE = 12/2/2013



		000		PEDESTRIAN SIGNAL H	LAD, LED, I-FACE, BRACKET MOUNTED W.	TH COUNTDOWN TIMER
		100		PEDESTRIAN SIGNAL HE	EAD, LED, 2-FACE, BRACKET MOUNTED W	ITH COUNTDOWN TIMER
				PEDESTRIAN SIGNAL HE	EAD, LED, 3-FACE, BRACKET MOUNTED W	ITH COUNTDOWN TIMER
				TRAFFIC SIGNAL BACK	PLATE, LOUVERED, ALUMINUM	
				MODIFY EXISTING CON	TROLLER CABINET	
				REMOVE EXISTING TRA	FFIC SIGNAL EQUIPMENT	
-	-	748		UNINTERRUPTABLE POW	VER SUPPLY, SPECIAL	
RTATÌ	ION			SIGNAL HEAD, LED, 1-F	ACE, 5-SECTION, MAST ARM MOUNTED, F	RETROFIT
				SIGNAL HEAD, LED, 2-F	ACE, 3-SECTION, BRACKET MOUNTED, R	ETROFIT
				SIGNAL HEAD, LED, 1-F	ACE, 4-SECTION, MAST ARM MOUNTED, F	RETROFIT
				PEDESTRIAN PUSH-BUT	TON, NON-LATCHING	
		DESIGNE	ED -	BRD	REVISED -	
		DRAWN	-	JRT	REVISED -	S S
		CHECKE	D -	JJE	REVISED -	DEPARTM
		DATE	-	12/02/2013	REVISED -	1



PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

-	OVERLAP LETTER	PE	RMISSIV PHASE	Έ.	PROTECTED PHASE
	A	=	2	+	3
	C	=	6	+	7

<u>NOTES</u>

1. REPLACEMENT OF THE EXISTING CONFIRMATION BEACONS WITH NEW LED CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, SPECIAL".

	I RAFFIC SIGN TRICAL SER'		STALLATI)TAL
TYPE	NO. LAMPS:	W. INCAN	ATTAGE ND. LED	×%. (DPERATION	WAI	TAGE
SIGNAL (RED)	14		17		0.50	1	119
(YELLOW)	14		25		0.25		88
(GREEN)	14		15		0.25		53
ARROW	24		12		0.10		29
PED. SIGNAL CONTROLLER	6		25		1.00		150
CONTROLLER	1		100		1.00		100
TOTAL = TOTAL = ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG. IL 60196-1096							539
ENERGY SUPPLY:		COM (866)	ED 639-353				
		USE	R NAME = jr	t			DESIGN
C							DRAWN
C	-	PL 0	T SCALE = 40		(10		CHECK

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	6
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
MODIFY EXISTING CONTROLLER CABINET	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	4

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.

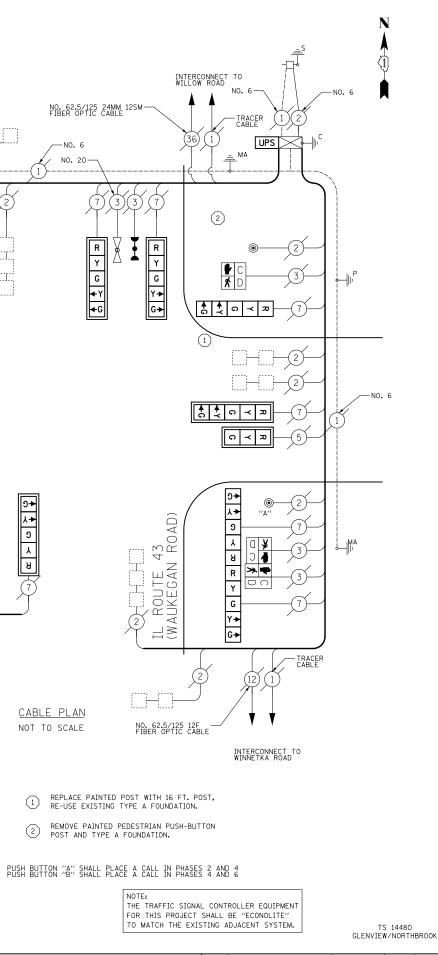
EACH EACH	PEDESTRIAN PUSH-BUTTON POST TRAFFIC SIGNAL POST
EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING
EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
FACH	SIGNAL HEAD, 1-FACE, 5-SECTION
EACH	SIGNAL HEAD, 2-FACE, 5-SECTION
FACH	TRAFFIC SIGNAL BACKPLATE
EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
LACIT	TEDESTNIAN SIGNAL HEAD, 2 TAGE

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	WESTLEIGH DRIVE		
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Ī		USER NAME = jrt	DESIGNED - BRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN PL	ASE DESIGNATION DIAGRAM	
CIVILTECH			DRAWN - JRT	REVISED -		IL ROUTE 43 (WAUKEGAN ROAD)		
	CIVILTECH	PLOT SCALE = 40.0000 ' / in.	CHECKED - JJE	REVISED -		IE NOOTE 40 (WAOKEGAN NOAE		
	C. F.L. Len	PLOT DATE = 12/2/2013	DATE - 12/02/2013	REVISED -		NOT TO SCALE	SHEET NO. 1 OF 1 SHEETS S	



M AND SCHEDULE OF QUANTITIES D) AT WESTLEIGH DRIVE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			2013-055TS	СООК	73	73	
				CONTRACT	NO. 6	50X16	
	STA.	TO STA.	ILLINOIS FED. AID PROJECT				