

08-02-13 LETTING ITEM 019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	1
ILLINOIS			CONTRACT NO. 60W38	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

VARIOUS NORTHWEST COOK COUNTY LOCATIONS
LIGHT EMITTING DIODE (LED) INSTALLATION
CONTRACT #3
SECTION 2013-007 TS
COOK COUNTY
C-91-273-13

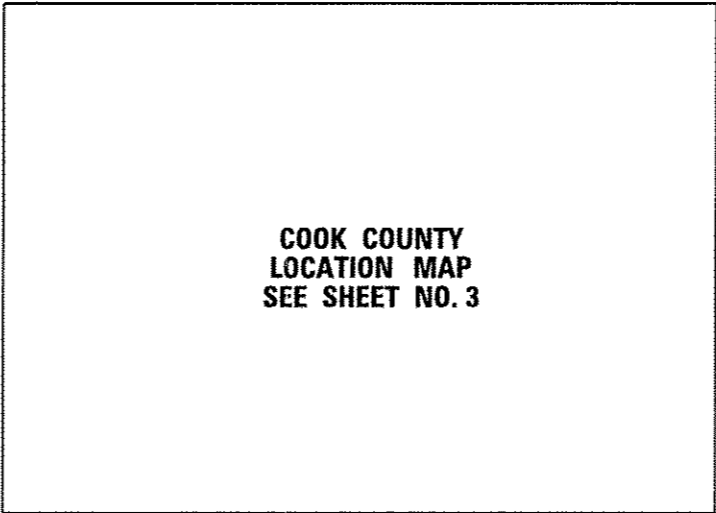
HIGHWAY STANDARDS

- 701006-04 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701101-03 OFF-ROAD OPERATIONS MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701701-08 URBAN LANE CLOSURE MULTILANE INTERSECTION
- 701901-02 TRAFFIC CONTROL DEVICES
- 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

PROJECT IS LOCATED IN THE MUNICIPALITIES OF
BARRINGTON, BARRINGTON HILLS, HOFFMAN ESTATES,
LONG GROVE AND SOUTH BARRINGTON



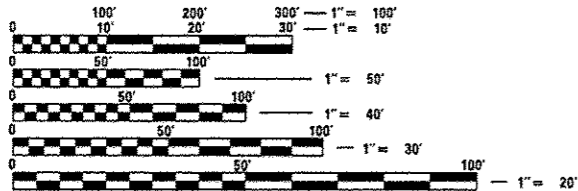
SIGNED: *Kevin L. Belgrave*
KEVIN L. BELGRAVE, EXP. 11/30/2013
DATE: MAY 13, 2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 17 2013
John D. Baranzoli
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 28 2013
John D. Baranzoli PE, PE
ENGINEER OF DESIGN AND ENVIRONMENT

June 28 2013
Omair A. Khan PE, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



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

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

GHA GEWALT HAMILTON ASSOCIATES, INC.
850 Forest Edge Drive • Vernon Hills, IL. 60061
Consulting Engineers & Surveyors
847-478-9700
FAX: 847-478-9701

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OF THE STATE OF ILLINOIS

CONTRACT NO. 60W38

DISTRICT 1 - TRAFFIC SIGNAL DESIGN - SUDAD MAHMOUD (847) 705-4420

INDEX OF SHEETS

- 1. TITLE SHEET
- 2. INDEX OF SHEETS AND GENERAL NOTES
- 3. LOCATION MAP
- 4.-7. SUMMARY OF QUANTITIES
- 8.-13. DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

TRAFFIC SIGNAL PLANS

PAGE #	TS #	INTERSECTION NAME
14.	11285	BARRINGTON ROAD AT PALATINE ROAD
15.-16.	2900	IL 59 (HOUGH ST) AT BARRINGTON ROAD
17.	2905	IL 59 (HOUGH ST) AT HILLSIDE AVENUE
18.	11280	IL 59 (HOUGH ST) AT MAIN STREET (LAKE-COOK RD)
19.	21550	IL 68 (DUNDEE RD) AT BARRINGTON MIDDLE SCHOOL ENTRANCE
20.	3105	IL 68 (DUNDEE RD) AT BARRINGTON ROAD
21.	21210	LAKE COOK ROAD AT ELA ROAD
22.	7185	LAKE COOK ROAD AT HART ROAD
23.	21845	MAIN STREET (LAKE-COOK RD) AT DUNDEE AVENUE
24.	11282	MAIN STREET (LAKE-COOK RD) AT APPLEBEE STREET
25.	5645	PALATINE ROAD AT ELA ROAD
26.	1245	US 14 (NORTHWEST HWY) AT LAKE-COOK ROAD
27.	2890	IL 59 (NEW SUTTON RD) AT IL 68 (DUNDEE RD)
28.-29.	2897	IL 59 (NEW SUTTON RD) AT PENNY ROAD
30.	4188	BARRINGTON ROAD AT LAKEWOOD BOULEVARD / TENNIS CLUB LANE
31.	20400	BARRINGTON ROAD AT ST. ALEXIUS MEDICAL CENTER ENTRANCE
32.	21535	IL 59 (SUTTON RD) AT I-90 NORTH RAMP / HOFFMAN BOULEVARD
33.	21510	IL 59 (SUTTON RD) AT I-90 SOUTH RAMP
34.	21710	IL 19 (IRVING PARK RD) AT ELGIN-O'HARE WEST FRONTAGE
35.	2670	IL 62 (ALGONQUIN RD) AT IL 53 (WEST RAMPS)
36.	2725	IL 58 (GOLF RD) AT BARRINGTON ROAD
37.	2760	IL 58 (GOLF RD) AT GANNON DRIVE
38.	21375	IL 58 (GOLF RD) AT HARMON BOULEVARD
39.	20402	IL 58 (GOLF RD) AT HOFFMAN VILLAGE ENTRANCE
40.	2700	IL 58 (GOLF RD) AT IL 59 (SUTTON RD)
41.	21370	IL 58 (GOLF RD) AT KNOLLWOOD LANE
42.	2870	IL 58 (GOLF RD) AT MOON LAKE BOULEVARD / WALNUT LANE
43.	22225	IL 58 (GOLF RD) AT ROHRSSSEN ROAD
44.	21537	IL 59 (SUTTON RD) AT POPLAR CREEK ENTRANCE
45.	2955	IL 62 (ALGONQUIN RD) AT ELA ROAD
46.	2960	IL 62 (ALGONQUIN RD) AT FREEMAN ROAD / HUNTINGTON BOULEVARD
47.	7655	IL 62 (ALGONQUIN RD) AT LEXINGTON DRIVE
48.	3251	IL 72 (HIGGINS RD) AT ASH ROAD
49.	3290	IL 72 (HIGGINS RD) AT BARRINGTON ROAD
50.	3325	IL 72 (HIGGINS RD) AT GANNON DRIVE
51.	21322	IL 72 (HIGGINS RD) AT GRAND CANYON PARKWAY
52.	12075	IL 72 (HIGGINS RD) AT HUNTINGTON BOULEVARD
53.	21560	IL 72 (HIGGINS RD) AT OLD SUTTON ROAD
54.	21555	IL 72 (HIGGINS RD) AT TRILLIUM BOULEVARD / WICHMAN DRIVE
55.	21557	IL 72 (HIGGINS RD) AT SEARS PARKWAY
56.	11133	IL 72 (HIGGINS RD) AT SHOE FACTORY ROAD / GREENSPOINT PARKWAY
57.	21320	IL 72 (HIGGINS RD) AT SPRING MILL ROAD
58.	4176	BARRINGTON ROAD AT CENTRAL ROAD
59.	4185	BARRINGTON ROAD AT MUNDHANK ROAD
60.	2940	IL 62 (ALGONQUIN RD) AT BARRINGTON ROAD
61.	22230	IL 62 (ALGONQUIN RD) AT WILLOW CREEK CHURCH / WILLOWMERE DRIVE
62.	2957	IL 62 (ALGONQUIN RD) AT WINSTON DRIVE

GENERAL NOTES

THE ILLINOIS 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; THE CITIES OF JOLIET AND LOCKPORT; THE VILLAGE OF CHANNAMON, FRANKFORT, PLAINFIELD, AND ROMEOVILLE; THE WILL COUNTY DEPARTMENT OF HIGHWAYS; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION; AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.

THE CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RELOCATED SIGNAL HEAD INTERSECTIONS OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING RELOCATED SIGNAL HEAD, RELOCATED PEDESTRIAN SIGNAL HEAD OR RELOCATED PEDESTRIAN PUSH-BUTTON AS SPECIFIED IN THE PLANS.

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.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

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 EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION IS BASED ON RECORD INFORMATION PROVIDED BY THE INDIVIDUAL UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT J.U.L.I.E. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES UNDERGROUND FACILITIES.

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY.

THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTH.

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 'JULIE' AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

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

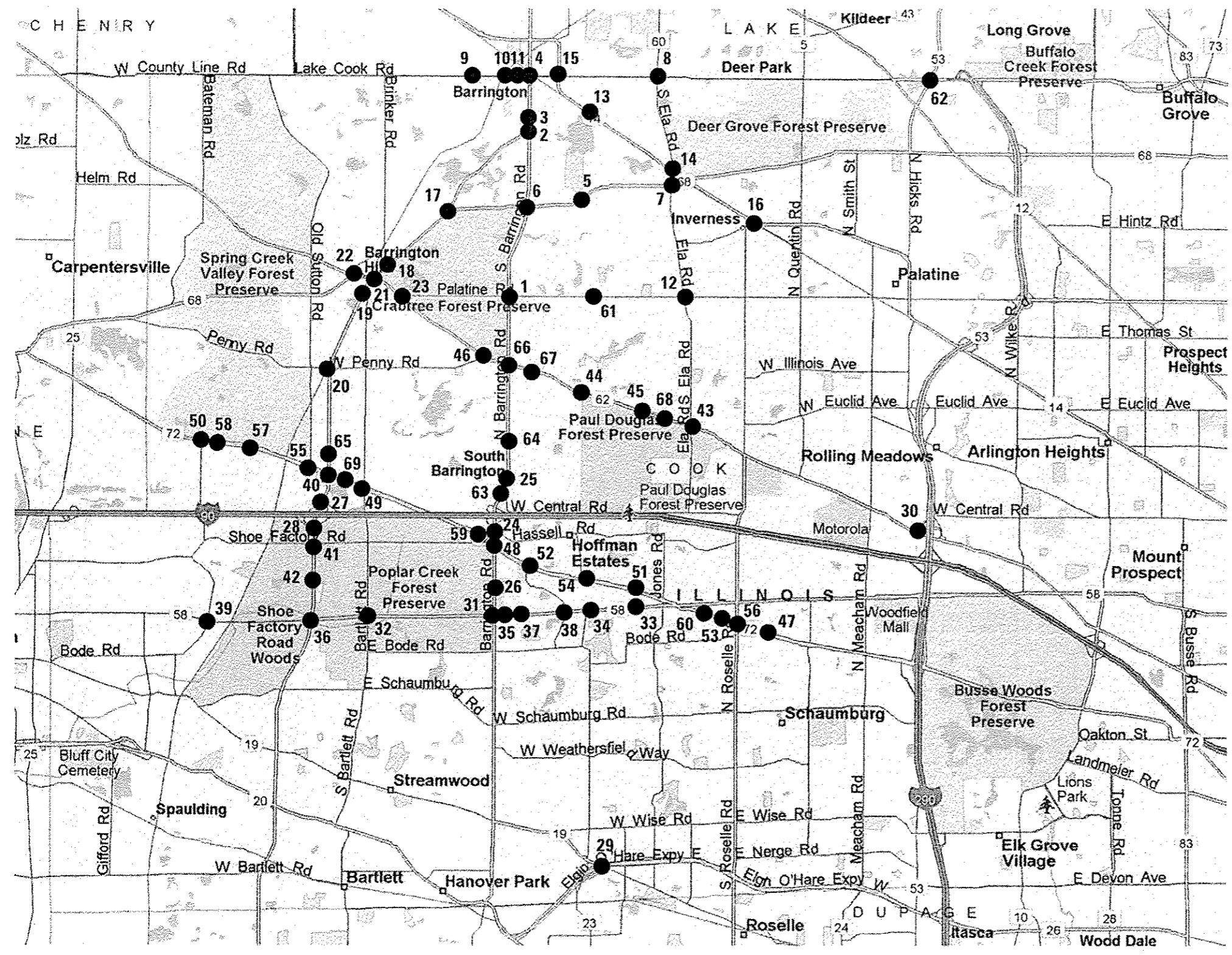
THE CONTRACTOR SHALL RELOCATE ANY EXISTING SIGN PANELS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A NEW POST AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION, AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.

FILE NAME #	USER NAME # g-hitter	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND GENERAL NOTES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DIGRND-002-Notes.dgn		DRAWN - CW3	REVISED -			VAR	2013-007 TS	COOK	62	2	
MODELNAME#		CHECKED - KLB	REVISED -			SCALE: NONE		SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 60W38	
		DATE - 05/10/13	REVISED -			ILLINOIS FED. AID PROJECT					

GHA #4085.889

TRAFFIC SIGNAL PLANS

NO.	TS	INTERSECTION NAME
1	11285	BARRINGTON ROAD AT PALATINE ROAD
2	2900	IL 59 (HOUGH ST) AT BARRINGTON ROAD
3	2905	IL 59 (HOUGH ST) AT HILLSIDE AVENUE
4	11280	IL 59 (HOUGH ST) AT MAIN STREET (LAKE-COOK RD)
5	21550	IL 68 (DUNDEE RD) AT BARRINGTON MIDDLE SCHOOL ENTRANCE
6	3105	IL 68 (DUNDEE RD) AT BARRINGTON ROAD
7	11860	DELETED
8	21210	LAKE COOK ROAD AT ELA ROAD
9	7185	LAKE COOK ROAD AT HART ROAD
10	21845	MAIN STREET (LAKE-COOK RD) AT DUNDEE AVENUE
11	11282	MAIN STREET (LAKE-COOK RD) AT APPLEBEE STREET
12	5645	PALATINE ROAD AT ELA ROAD
13	4695	DELETED
14	20380	DELETED
15	1245	US 14 (NORTHWEST HWY) AT LAKE-COOK ROAD
16	1170	DELETED
17	2890	IL 59 (NEW SUTTON RD) AT IL 68 (DUNDEE RD)
18	2890	DELETED
19	2892	DELETED
20	2897	IL 59 (NEW SUTTON RD) AT PENNY ROAD
21	2915	DELETED
22	2920	DELETED
23	2922	DELETED
24	4175	DELETED
25	4188	BARRINGTON ROAD AT LAKEWOOD BOULEVARD / TENNIS CLUB LANE
26	20400	BARRINGTON ROAD AT ST. ALEXIUS MEDICAL CENTER ENTRANCE
27	21535	IL 59 (SUTTON RD) AT I-90 NORTH RAMP / HOFFMAN BOULEVARD
28	21510	IL 59 (SUTTON RD) AT I-90 SOUTH RAMP
29	21710	IL 19 (IRVING PARK RD) AT ELGIN-O'HARE WEST FRONTAGE
30	2670	IL 62 (ALGONQUIN RD) AT IL 53 (WEST RAMPS)
31	2725	IL 58 (GOLF RD) AT BARRINGTON ROAD
32	2730	DELETED
33	2760	IL 58 (GOLF RD) AT GANNON DRIVE
34	21375	IL 58 (GOLF RD) AT HARMON BOULEVARD
35	20402	IL 58 (GOLF RD) AT HOFFMAN VILLAGE ENTRANCE
36	2700	IL 58 (GOLF RD) AT IL 59 (SUTTON RD)
37	21370	IL 58 (GOLF RD) AT KNOLLWOOD LANE
38	2870	IL 58 (GOLF RD) AT MOON LAKE BOULEVARD / WALNUT LANE
39	22225	IL 58 (GOLF RD) AT ROHRSSEN ROAD
40	2895	DELETED
41	11130	DELETED
42	21537	IL 59 (SUTTON RD) AT POPLAR CREEK ENTRANCE
43	2955	IL 62 (ALGONQUIN RD) AT ELA ROAD
44	2960	IL 62 (ALGONQUIN RD) AT FREEMAN ROAD / HUNTINGTON BOULEVARD
45	7655	IL 62 (ALGONQUIN RD) AT LEXINGTON DRIVE
46	22240	DELETED
47	3251	IL 72 (HIGGINS RD) AT ASH ROAD
48	3290	IL 72 (HIGGINS RD) AT BARRINGTON ROAD
49	3295	DELETED
50	3340	DELETED
51	3325	IL 72 (HIGGINS RD) AT GANNON DRIVE
52	3330	DELETED
53	21322	IL 72 (HIGGINS RD) AT GRAND CANYON PARKWAY
54	12075	IL 72 (HIGGINS RD) AT HUNTINGTON BOULEVARD
55	21560	IL 72 (HIGGINS RD) AT OLD SUTTON ROAD
56	3250	DELETED
57	21555	IL 72 (HIGGINS RD) AT TRILLIUM BOULEVARD / WICHMAN DRIVE
58	21557	IL 72 (HIGGINS RD) AT SEARS PARKWAY
59	11133	IL 72 (HIGGINS RD) AT SHOE FACTORY ROAD / GREENSPPOINT PARKWAY
60	21320	IL 72 (HIGGINS RD) AT SPRING MILL ROAD
61	21805	DELETED
62	2677	DELETED
63	4176	BARRINGTON ROAD AT CENTRAL ROAD
64	4185	BARRINGTON ROAD AT MUNDHANK ROAD
65	2899	DELETED
66	2940	IL 62 (ALGONQUIN RD) AT BARRINGTON ROAD
67	22230	IL 62 (ALGONQUIN RD) AT WILLOW CREEK CHURCH / WILLOWMERE DRIVE
68	2957	IL 62 (ALGONQUIN RD) AT WINSTON DRIVE
69	3297	DELETED



SUMMARY OF QUANTITIES HEADING LEGEND													
FUNDING PARTICIPATION													
LOCATION NO.	COLUMN NO.	TS NO.	INTERSECTION	MUNICIPALITY	STATE	VILLAGE OF BARRINGTON	VILLAGE OF BARRINGTON HILLS	VILLAGE OF HOFFMAN ESTATES	VILLAGE OF SCHAUMBURG	LAKE COUNTY	BARRINGTON COMM. UNIT SCHOOL DISTRICT 220	SEARS HOLDING CORPORATION	WILLOW CREEK COMMUNITY CHURCH INC.
1.	14.	11285	BARRINGTON ROAD AT PALATINE ROAD	BARRINGTON	100%								
2.	14.	2900	IL 59 (HOUGH ST) AT BARRINGTON ROAD	BARRINGTON	100%								
3.	1.	2905	IL 59 (HOUGH ST) AT HILLSIDE AVENUE	BARRINGTON	95%	5%							
4.	14.	11280	IL 59 (HOUGH ST) AT MAIN STREET (LAKE-COOK RD)	BARRINGTON	100%								
5.	3.	21550	IL 68 (DUNDEE RD) AT BARRINGTON MIDDLE SCHOOL ENTRANCE	BARRINGTON	96.7%						3.3%		
6.	14.	3105	IL 68 (DUNDEE RD) AT BARRINGTON ROAD	BARRINGTON	100%								
7.		11860	DELETED										
8.	6.	21210	LAKE-COOK ROAD AT ELA ROAD	BARRINGTON	97.5%					2.5%			
9.	5.	7185	LAKE-COOK ROAD AT HART ROAD	BARRINGTON	96.7%					3.3%			
10.	2.	21845	MAIN STREET (LAKE-COOK RD) AT DUNDEE AVENUE	BARRINGTON	96.7%	3.3%							
11.	1.	11282	MAIN STREET (LAKE-COOK RD) AT APPLEBEE STREET	BARRINGTON	95%	5%							
12.	14.	5645	PALATINE ROAD AT ELA ROAD	INVERNESS	100%								
13.		4695	DELETED										
14.		20380	DELETED										
15.	14.	1245	U.S. 14 (NORTHWEST HWY) AT LAKE-COOK ROAD	BARRINGTON	100%								
16.		1170	DELETED										
17.	4.	2890	IL 59 (NEW SUTTON RD) AT IL 68 (DUNDEE RD)	BARRINGTON HILLS	97.5%		2.5%						
18.		2890	DELETED										
19.		2892	DELETED										
20.	14.	2897	IL 59 (NEW SUTTON RD) AT PENNY ROAD	BARRINGTON HILLS	100%								
21.		2915	DELETED										
22.		2920	DELETED										
23.		2922	DELETED										
24.		4175	DELETED										
25.	7.	4188	BARRINGTON ROAD AT LAKEWOOD BOULEVARD / TENNIS CLUB LANE	HOFFMAN ESTATES	95%			5%					
26.	8.	20400	BARRINGTON ROAD AT ST. ALEXIUS MEDICAL CENTER ENTRANCE	HOFFMAN ESTATES	96.7%			3.3%					
27.	14.	21535	IL 59 (SUTTON RD) AT I-90 NORTH RAMP / HOFFMAN BOULEVARD	HOFFMAN ESTATES	100%								
28.	14.	21510	IL 59 (SUTTON RD) AT I-90 SOUTH RAMP	HOFFMAN ESTATES	100%								
29.	14.	21710	IL 19 (IRVING PARK RD) AT ELGIN-O'HARE NORTH FRONTAGE ROAD	SCHAUMBURG	100%								
30.	14.	2670	IL 62 (ALGONQUIN RD) AT IL 53 (WEST RAMPS)	HOFFMAN ESTATES	100%								
31.	14.	2725	IL 58 (GOLF RD) AT BARRINGTON ROAD	HOFFMAN ESTATES	100%								
32.		2730	DELETED										
33.	7.	2760	IL 58 (GOLF RD) AT GANNON DRIVE	HOFFMAN ESTATES	95%			5%					
34.	8.	21375	IL 58 (GOLF RD) AT HARMON BOULEVARD	HOFFMAN ESTATES	96.7%			3.3%					
35.	7.	20402	IL 58 (GOLF RD) AT HOFFMAN VILLAGE ENTRANCE	HOFFMAN ESTATES	95%			5%					
36.	14.	2700	IL 58 (GOLF RD) AT IL 59 (SUTTON RD)	HOFFMAN ESTATES	100%								
37.	11.	21370	IL 58 (GOLF RD) AT KNOLLWOOD LANE	HOFFMAN ESTATES	96.7%				3.3%				
38.	10.	2870	IL 58 (GOLF RD) AT MOON LAKE BOULEVARD / WALNUT LANE	HOFFMAN ESTATES	95%			2.5%	2.5%				
39.	7.	22225	IL 58 (GOLF RD) AT ROHRSEN ROAD	HOFFMAN ESTATES	95%			5%					
40.		2895	DELETED										
41.		11130	DELETED										
42.	7.	21537	IL 59 (SUTTON RD) AT POLAR CREEK ENTRANCE	HOFFMAN ESTATES	95%			5%					
43.	14.	2955	IL 62 (ALGONQUIN RD) AT ELA ROAD	HOFFMAN ESTATES	100%								
44.	9.	2960	IL 62 (ALGONQUIN RD) AT FREEMAN ROAD / HUNTINGTON BOULEVARD	HOFFMAN ESTATES	97.5%			2.5%					
45.	8.	7655	IL 62 (ALGONQUIN RD) AT LEXINGTON DRIVE	HOFFMAN ESTATES	96.7%			3.3%					
46.		22240	DELETED										
47.	7.	3251	IL 72 (HIGGINS RD) AT ASH ROAD	HOFFMAN ESTATES	95%			5%					
48.	14.	3290	IL 72 (HIGGINS RD) AT BARRINGTON ROAD	HOFFMAN ESTATES	100%								
49.		3295	DELETED										
50.		3340	DELETED										
51.	7.	3325	IL 72 (HIGGINS RD) AT GANNON DRIVE	HOFFMAN ESTATES	95%			5%					
52.		3330	DELETED										
53.	10.	21322	IL 72 (HIGGINS RD) AT GRAND CANYON PARKWAY	HOFFMAN ESTATES	95%			2.5%	2.5%				
54.	7.	12075	IL 72 (HIGGINS RD) AT HUNTINGTON BOULEVARD	HOFFMAN ESTATES	95%			5%					
55.	9.	21560	IL 72 (HIGGINS RD) AT OLD SUTTON ROAD	HOFFMAN ESTATES	97.5%			2.5%					
56.		3250	DELETED										
57.	9.	21555	IL 72 (HIGGINS RD) AT TRILLIUM BOULEVARD / WICHMAN DRIVE	HOFFMAN ESTATES	97.5%			2.5%					
58.	12.	21557	IL 72 (HIGGINS RD) AT SEARS PARKWAY	HOFFMAN ESTATES	96.7%						3.3%		
59.	14.	11133	IL 72 (HIGGINS RD) AT SHOE FACTORY ROAD / GREENS POINT PARKWAY	HOFFMAN ESTATES	100%								
60.	10.	21320	IL 72 (HIGGINS RD) AT SPRING MILL ROAD	HOFFMAN ESTATES	95%			2.5%	2.5%				
61.		21805	DELETED										
62.		2677	DELETED										
63.	14.	4176	BARRINGTON ROAD AT CENTRAL ROAD	SOUTH BARRINGTON	100%								
64.	14.	4185	BARRINGTON ROAD AT MUNDHANK ROAD	SOUTH BARRINGTON	100%								
65.		2899	DELETED										
66.	14.	2940	IL 62 (ALGONQUIN RD) AT BARRINGTON ROAD	SOUTH BARRINGTON	100%								
67.	13.	22230	IL 62 (ALGONQUIN RD) AT WILLOW CREEK CHURCH / WILLOWMERE DRIVE	SOUTH BARRINGTON	95%								5%
68.	7.	2957	IL 62 (ALGONQUIN RD) AT WINSTON DRIVE	SOUTH BARRINGTON	95%			5%					
69.		3297	DELETED										

SUMMARY OF QUANTITIES		TYPE		CONSTRUCTION CODE 0021													
CODE NO.	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS													
				URBAN													
				1	2	3	4	5	6	7	8	9	10	11	12	13	14
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4														4
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	47	2	1	1	1	1	1	9	3	3	3	1	1	1	19
67100100	MOBILIZATION	L SUM	1														1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2			1			1								
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1														1
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3	1	1												1
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4														4
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	4					3		1							
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	13							2							11
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	4					1		1					1		1
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	36	2	3	3		1		4							23
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	33	3	3	3		6		2							16
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	22		2					5							15
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	27	1	1	1		1		1							22
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	1		1											2
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3														3
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	13	1	1	1		1		2							7

07COV 01
07COV 02
07COV 01
07COV 03
07COV 01
07COV 02
07COV 04
07COV 05
07COV 06
07COV 07
07COV 08
07COV 02
07COV 03
07COV 01

NO. INTERSECTION

- BARRINGTON ROAD AT PALATINE ROAD
- IL 59 (HOUGH ST) AT BARRINGTON ROAD
- IL 59 (HOUGH ST) AT HILLSIDE AVENUE
- IL 59 (HOUGH ST) AT MAIN STREET (LAKE-COOK RD)
- IL 68 (DUNDEE RD) AT BARRINGTON MIDDLE SCHOOL ENTRANCE
- IL 68 (DUNDEE RD) AT BARRINGTON ROAD
- DELETED
- LAKE COOK ROAD AT ELA ROAD
- LAKE COOK ROAD AT HART ROAD
- MAIN STREET (LAKE-COOK RD) AT DUNDEE AVENUE
- MAIN STREET (LAKE-COOK RD) AT APPLEBEE STREET
- PALATINE ROAD AT ELA ROAD
- DELETED
- DELETED
- US 14 (NORTHWEST HWY) AT LAKE-COOK ROAD
- DELETED
- IL 59 (NEW SUTTON RD) AT IL 68 (DUNDEE RD)
- DELETED

NO. INTERSECTION

- DELETED
- IL 59 (NEW SUTTON RD) AT PENNY ROAD
- DELETED
- DELETED
- DELETED
- DELETED
- DELETED
- BARRINGTON ROAD AT LAKEWOOD BOULEVARD / TENNIS CLUB LANE
- BARRINGTON ROAD AT ST. ALEXIUS MEDICAL CENTER ENTRANCE
- IL 59 (SUTTON RD) AT I-90 NORTH RAMP / HOFFMAN BOULEVARD
- IL 59 (SUTTON RD) AT I-90 SOUTH RAMP
- IL 19 (IRVING PARK RD) AT ELGIN-O'HARE WEST FRONTAGE
- IL 62 (ALGONQUIN RD) AT IL 53 (WEST RAMPS)
- IL 58 (GOLF RD) AT BARRINGTON ROAD
- DELETED
- IL 58 (GOLF RD) AT GANNON DRIVE
- IL 58 (GOLF RD) AT HARMON BOULEVARD
- IL 58 (GOLF RD) AT HOFFMAN VILLAGE ENTRANCE
- IL 58 (GOLF RD) AT IL 59 (SUTTON RD)

NO. INTERSECTION

- IL 58 (GOLF RD) AT KNOLLWOOD LANE
- IL 58 (GOLF RD) AT MOON LAKE BOULEVARD / WALNUT LANE
- IL 58 (GOLF RD) AT ROHRSSEN ROAD
- DELETED
- DELETED
- IL 59 (SUTTON RD) AT POPLAR CREEK ENTRANCE
- IL 62 (ALGONQUIN RD) AT ELA ROAD
- IL 62 (ALGONQUIN RD) AT FREEMAN ROAD / HUNTINGTON BOULEVARD
- IL 62 (ALGONQUIN RD) AT LEXINGTON DRIVE
- DELETED
- IL 72 (HIGGINS RD) AT ASH ROAD
- IL 72 (HIGGINS RD) AT BARRINGTON ROAD
- DELETED
- DELETED
- IL 72 (HIGGINS RD) AT GANNON DRIVE
- DELETED
- IL 72 (HIGGINS RD) AT GRAND CANYON PARKWAY
- IL 72 (HIGGINS RD) AT HUNTINGTON BOULEVARD

NO. INTERSECTION

- IL 72 (HIGGINS RD) AT OLD SUTTON ROAD
- DELETED
- IL 72 (HIGGINS RD) AT TRILLIUM BOULEVARD / WICHMAN DRIVE
- IL 72 (HIGGINS RD) AT SEARS PARKWAY
- IL 72 (HIGGINS RD) AT SHOE FACTORY ROAD / GREENSPPOINT PARKWAY
- IL 72 (HIGGINS RD) AT SPRING MILL ROAD
- DELETED
- DELETED
- BARRINGTON ROAD AT CENTRAL ROAD
- BARRINGTON ROAD AT MUNDHANK ROAD
- DELETED
- IL 62 (ALGONQUIN RD) AT BARRINGTON ROAD
- IL 62 (ALGONQUIN RD) AT WILLOW CREEK CHURCH / WILLOWMERE DRIVE
- IL 62 (ALGONQUIN RD) AT WINSTON DRIVE
- DELETED

SUMMARY OF QUANTITIES		TYPE		CONSTRUCTION CODE 0021													
CODE NO.	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS													
				URBAN													
				1	2	3	4	5	6	7	8	9	10	11	12	13	14
88055150	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2														2
88055160	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6														6
88055350	OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1														1
88060110	COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED	EACH	2														2
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	48	8	6					14	6	4	20			2	38
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	19	1						6	1	1	2			1	7
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	69	3	4	4		2		5							51
88500100	INDUCTIVE LOOP DETECTOR	EACH	34	6	6	6			10								6
88800100	PEDESTRIAN PUSH-BUTTON	EACH	38	4	6					4	2		8				14
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3					1		1*					1		
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	41	1			1	1		8	3	3	3	1	1	1	18
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	33	2	1	1		1	1	5	2	1	3		1	1	14
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	3	1	1												1
X8620050	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED	EACH	1				1										

* THE COST OF THIS ITEM IS 100% VILLAGE OF HOFFMAN ESTATES. (07P0V,01)

NO. INTERSECTION

- BARRINGTON ROAD AT PALATINE ROAD
- IL 59 (HOUGH ST) AT BARRINGTON ROAD
- IL 59 (HOUGH ST) AT HILLSIDE AVENUE
- IL 59 (HOUGH ST) AT MAIN STREET (LAKE-COOK RD)
- IL 68 (DUNDEE RD) AT BARRINGTON MIDDLE SCHOOL ENTRANCE
- IL 68 (DUNDEE RD) AT BARRINGTON ROAD
- DELETED
- LAKE COOK ROAD AT ELA ROAD
- LAKE COOK ROAD AT HART ROAD
- MAIN STREET (LAKE-COOK RD) AT DUNDEE AVENUE
- MAIN STREET (LAKE-COOK RD) AT APPLEBEE STREET
- PALATINE ROAD AT ELA ROAD
- DELETED
- DELETED
- US 14 (NORTHWEST HWY) AT LAKE-COOK ROAD
- DELETED
- IL 59 (NEW SUTTON RD) AT IL 68 (DUNDEE RD)
- DELETED

NO. INTERSECTION

- DELETED
- IL 59 (NEW SUTTON RD) AT PENNY ROAD
- DELETED
- DELETED
- DELETED
- DELETED
- DELETED
- BARRINGTON ROAD AT LAKEWOOD BOULEVARD / TENNIS CLUB LANE
- BARRINGTON ROAD AT ST. ALEXIUS MEDICAL CENTER ENTRANCE
- IL 59 (SUTTON RD) AT I-90 NORTH RAMP / HOFFMAN BOULEVARD
- IL 59 (SUTTON RD) AT I-90 SOUTH RAMP
- IL 19 (IRVING PARK RD) AT ELGIN-O'HARE WEST FRONTAGE
- IL 62 (ALGONQUIN RD) AT IL 53 (WEST RAMPS)
- IL 58 (GOLF RD) AT BARRINGTON ROAD
- DELETED
- IL 58 (GOLF RD) AT GANNON DRIVE
- IL 58 (GOLF RD) AT HARMON BOULEVARD
- IL 58 (GOLF RD) AT HOFFMAN VILLAGE ENTRANCE
- IL 58 (GOLF RD) AT IL 59 (SUTTON RD)

NO. INTERSECTION

- IL 58 (GOLF RD) AT KNOLLWOOD LANE
- IL 58 (GOLF RD) AT MOON LAKE BOULEVARD / WALNUT LANE
- IL 58 (GOLF RD) AT ROHRSSSEN ROAD
- DELETED
- DELETED
- IL 59 (SUTTON RD) AT POPLAR CREEK ENTRANCE
- IL 62 (ALGONQUIN RD) AT ELA ROAD
- IL 62 (ALGONQUIN RD) AT FREEMAN ROAD / HUNTINGTON BOULEVARD
- IL 62 (ALGONQUIN RD) AT LEXINGTON DRIVE
- DELETED
- IL 72 (HIGGINS RD) AT ASH ROAD
- IL 72 (HIGGINS RD) AT BARRINGTON ROAD
- DELETED
- DELETED
- IL 72 (HIGGINS RD) AT GANNON DRIVE
- DELETED
- IL 72 (HIGGINS RD) AT GRAND CANYON PARKWAY
- IL 72 (HIGGINS RD) AT HUNTINGTON BOULEVARD

NO. INTERSECTION

- IL 72 (HIGGINS RD) AT OLD SUTTON ROAD
- DELETED
- IL 72 (HIGGINS RD) AT TRILLIUM BOULEVARD / WICHMAN DRIVE
- IL 72 (HIGGINS RD) AT SEARS PARKWAY
- IL 72 (HIGGINS RD) AT SHOE FACTORY ROAD / GREENSPPOINT PARKWAY
- IL 72 (HIGGINS RD) AT SPRING MILL ROAD
- DELETED
- DELETED
- BARRINGTON ROAD AT CENTRAL ROAD
- BARRINGTON ROAD AT MUNDHANK ROAD
- DELETED
- IL 62 (ALGONQUIN RD) AT BARRINGTON ROAD
- IL 62 (ALGONQUIN RD) AT WILLOW CREEK CHURCH / WILLOWMERE DRIVE
- IL 62 (ALGONQUIN RD) AT WINSTON DRIVE
- DELETED

FILE NAME * C:\G2\W38-006-500.dgn	USER NAME * gwhitton	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES (SHEET 3 OF 4)				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FLOT SCALE = 1:20	DRAWN - CW3	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	COOK	62	6
	FLOT DATE = 5/22/2013	CHECKED - KLB	REVISED -		CONTRACT NO. 60W38								
		DATE - 05/10/13	REVISED -		ILLINOIS FED. AID PROJECT								

SUMMARY OF QUANTITIES		TYPE		CONSTRUCTION CODE 0021													
CODE NO.	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS													
				URBAN													
				1	2	3	4	5	6	7	8	9	10	11	12	13	14
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	45	2	1	1		1	1	8	3	3	3	1	1	1	19
X8803038	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1							1							
X8803040	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	11						5							2	4
X8803082	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	16						4				3			1	8
X8803084	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	73					4	21	3	3		3		5	34	
X8803088	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	26					4	7	1	5		1		3	5	
X8803090	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	10						4				1			5	
X8803110	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3							2						1	
X8803120	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	1													1	
X8803210	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	21					4	4	1	3		1		1	7	
X8803910	SIGNAL HEAD, LED, 2 FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	2								1					1	
X8880015	PEDESTRIAN PUSH-BUTTON, NON-LATCHING	EACH	78	4					16	5	5	14			3	31	
② Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURL	500														500

0042

- NO. INTERSECTION
- BARRINGTON ROAD AT PALATINE ROAD
 - IL 59 (HOUGH ST) AT BARRINGTON ROAD
 - IL 59 (HOUGH ST) AT HILLSIDE AVENUE
 - IL 59 (HOUGH ST) AT MAIN STREET (LAKE-COOK RD)
 - IL 68 (DUNDEE RD) AT BARRINGTON MIDDLE SCHOOL ENTRANCE
 - IL 68 (DUNDEE RD) AT BARRINGTON ROAD
 - DELETED
 - LAKE COOK ROAD AT ELA ROAD
 - LAKE COOK ROAD AT HART ROAD
 - MAIN STREET (LAKE-COOK RD) AT DUNDEE AVENUE
 - MAIN STREET (LAKE-COOK RD) AT APPLEBEE STREET
 - PALATINE ROAD AT ELA ROAD
 - DELETED
 - DELETED
 - US 14 (NORTHWEST HWY) AT LAKE-COOK ROAD
 - DELETED
 - IL 59 (NEW SUTTON RD) AT IL 68 (DUNDEE RD)
 - DELETED

- NO. INTERSECTION
- DELETED
 - IL 59 (NEW SUTTON RD) AT PENNY ROAD
 - DELETED
 - DELETED
 - DELETED
 - DELETED
 - DELETED
 - BARRINGTON ROAD AT LAKEWOOD BOULEVARD / TENNIS CLUB LANE
 - BARRINGTON ROAD AT ST. ALEXIUS MEDICAL CENTER ENTRANCE
 - IL 59 (SUTTON RD) AT I-90 NORTH RAMP / HOFFMAN BOULEVARD
 - IL 59 (SUTTON RD) AT I-90 SOUTH RAMP
 - IL 19 (IRVING PARK RD) AT ELGIN-O'HARE WEST FRONTAGE
 - IL 62 (ALGONQUIN RD) AT IL 53 (WEST RAMPS)
 - IL 58 (GOLF RD) AT BARRINGTON ROAD
 - DELETED
 - IL 58 (GOLF RD) AT GANNON DRIVE
 - IL 58 (GOLF RD) AT HARMON BOULEVARD
 - IL 58 (GOLF RD) AT HOFFMAN VILLAGE ENTRANCE
 - IL 58 (GOLF RD) AT IL 59 (SUTTON RD)

- NO. INTERSECTION
- IL 58 (GOLF RD) AT KNOLLWOOD LANE
 - IL 58 (GOLF RD) AT MOON LAKE BOULEVARD / WALNUT LANE
 - IL 58 (GOLF RD) AT ROHRSSSEN ROAD
 - DELETED
 - DELETED
 - IL 59 (SUTTON RD) AT POPLAR CREEK ENTRANCE
 - IL 62 (ALGONQUIN RD) AT ELA ROAD
 - IL 62 (ALGONQUIN RD) AT FREEMAN ROAD / HUNTINGTON BOULEVARD
 - IL 62 (ALGONQUIN RD) AT LEXINGTON DRIVE
 - DELETED
 - IL 72 (HIGGINS RD) AT ASH ROAD
 - IL 72 (HIGGINS RD) AT BARRINGTON ROAD
 - DELETED
 - DELETED
 - IL 72 (HIGGINS RD) AT GANNON DRIVE
 - DELETED
 - IL 72 (HIGGINS RD) AT GRAND CANYON PARKWAY
 - IL 72 (HIGGINS RD) AT HUNTINGTON BOULEVARD

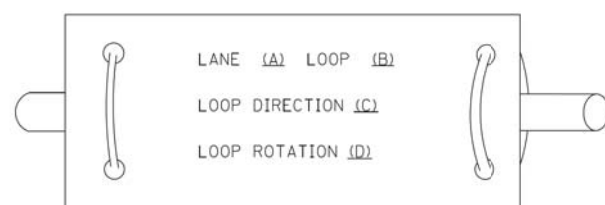
- NO. INTERSECTION
- IL 72 (HIGGINS RD) AT OLD SUTTON ROAD
 - DELETED
 - IL 72 (HIGGINS RD) AT TRILLIUM BOULEVARD / WICHMAN DRIVE
 - IL 72 (HIGGINS RD) AT SEARS PARKWAY
 - IL 72 (HIGGINS RD) AT SHOE FACTORY ROAD / GREENSPPOINT PARKWAY
 - IL 72 (HIGGINS RD) AT SPRING MILL ROAD
 - DELETED
 - DELETED
 - BARRINGTON ROAD AT CENTRAL ROAD
 - BARRINGTON ROAD AT MUNDHANK ROAD
 - DELETED
 - IL 62 (ALGONQUIN RD) AT BARRINGTON ROAD
 - IL 62 (ALGONQUIN RD) AT WILLOW CREEK CHURCH / WILLOWMERE DRIVE
 - IL 62 (ALGONQUIN RD) AT WINSTON DRIVE
 - DELETED

Rev

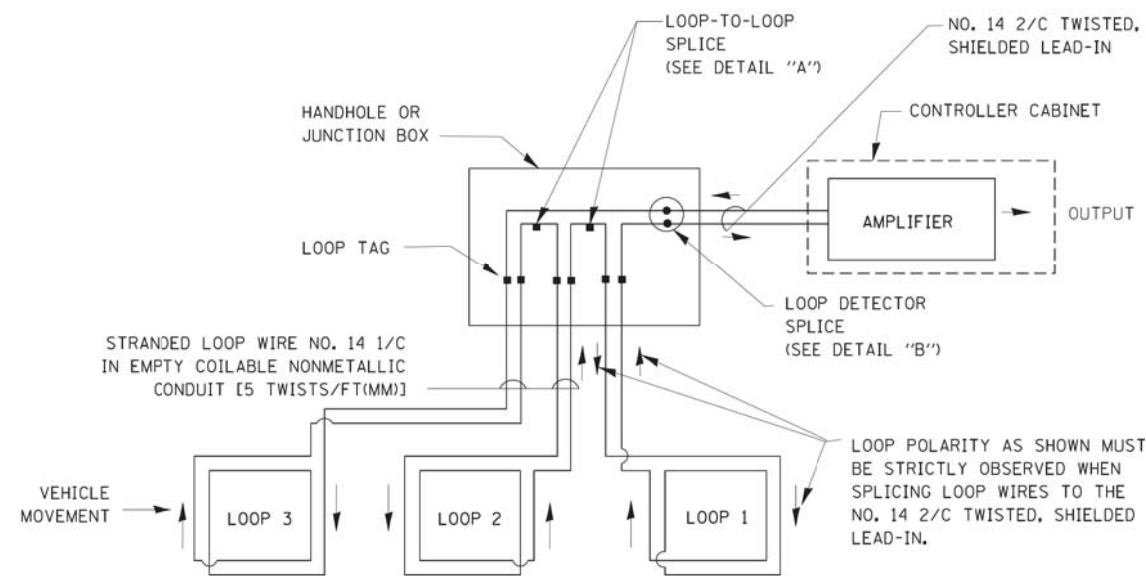
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

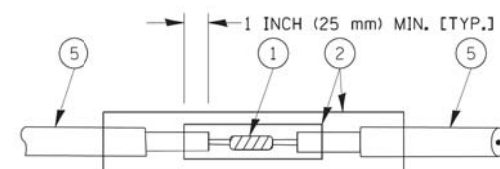


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

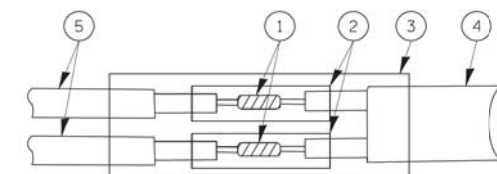


DETECTOR LOOP WIRING SCHEMATIC

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

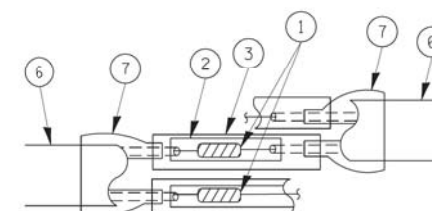


DETAIL "A"
LOOP-TO-LOOP SPLICE



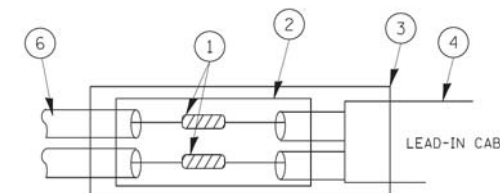
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PREFORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NC. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = D160W38-008-Details.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
		DRAWN - GW3	REVISED -
		CHECKED - KLB	REVISED -
\$MODELNAME\$	PLOT DATE = 5/7/2013	DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

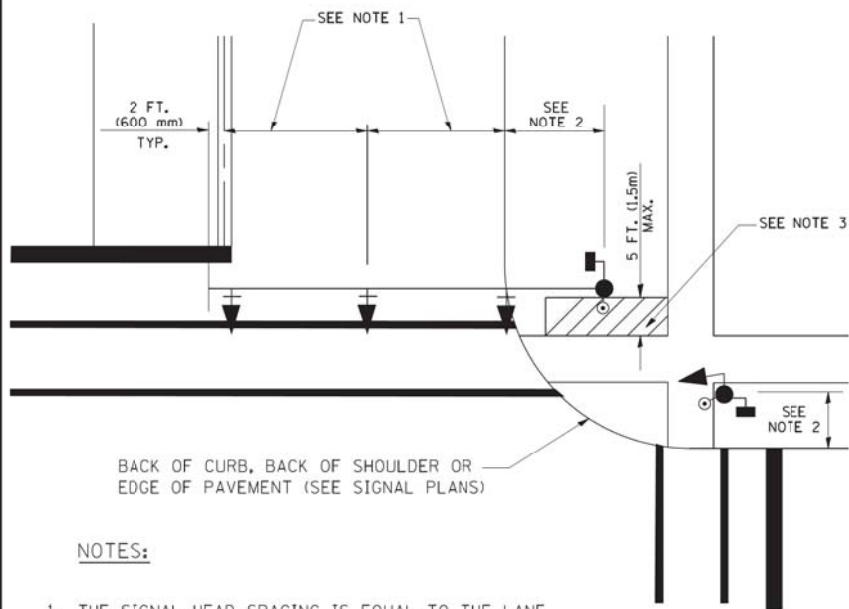
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 1 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2013-007 TS	COOK	62	8
	TS-05		CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

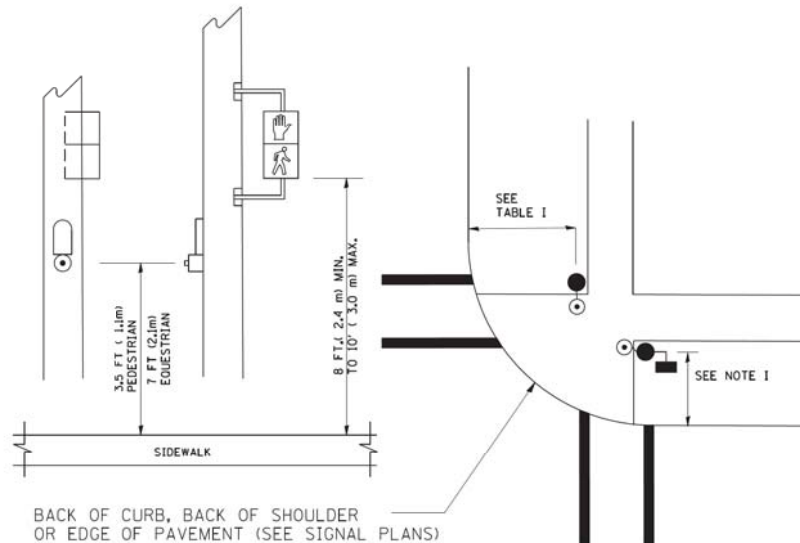
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

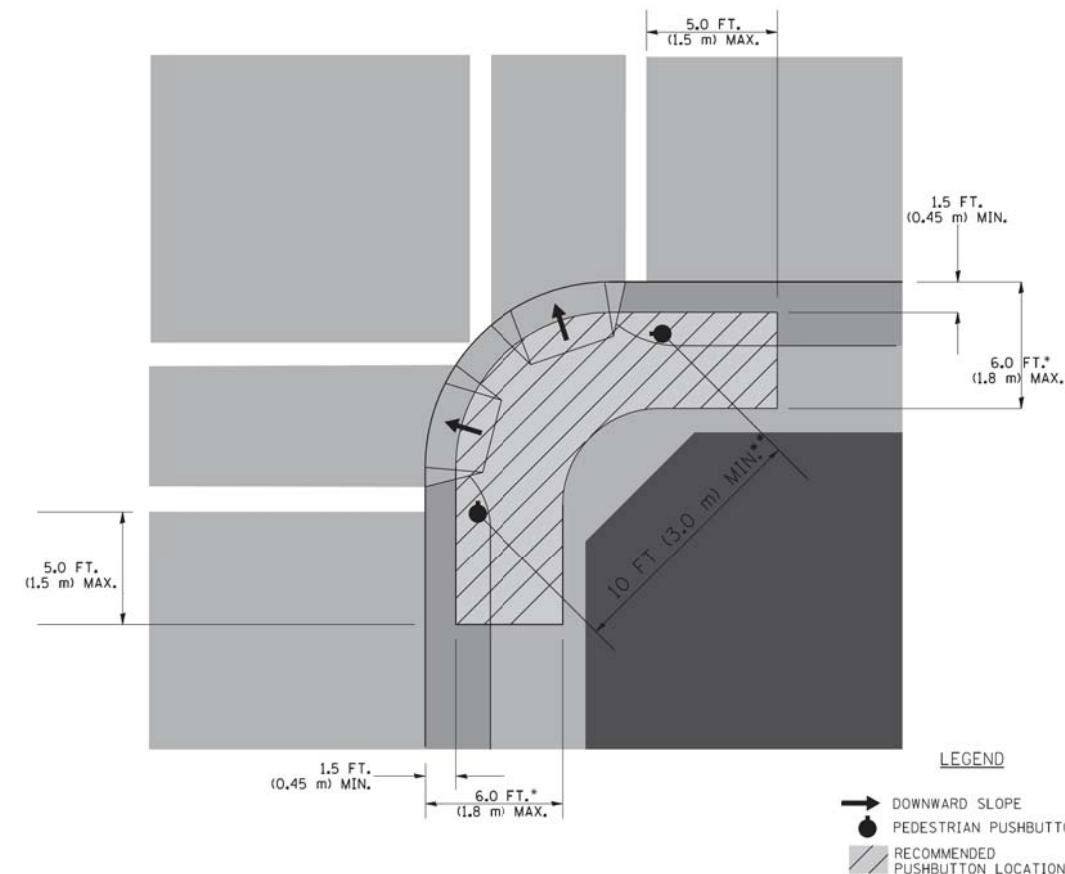
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

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

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DRAWN - GW3
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DATE - 05/10/13

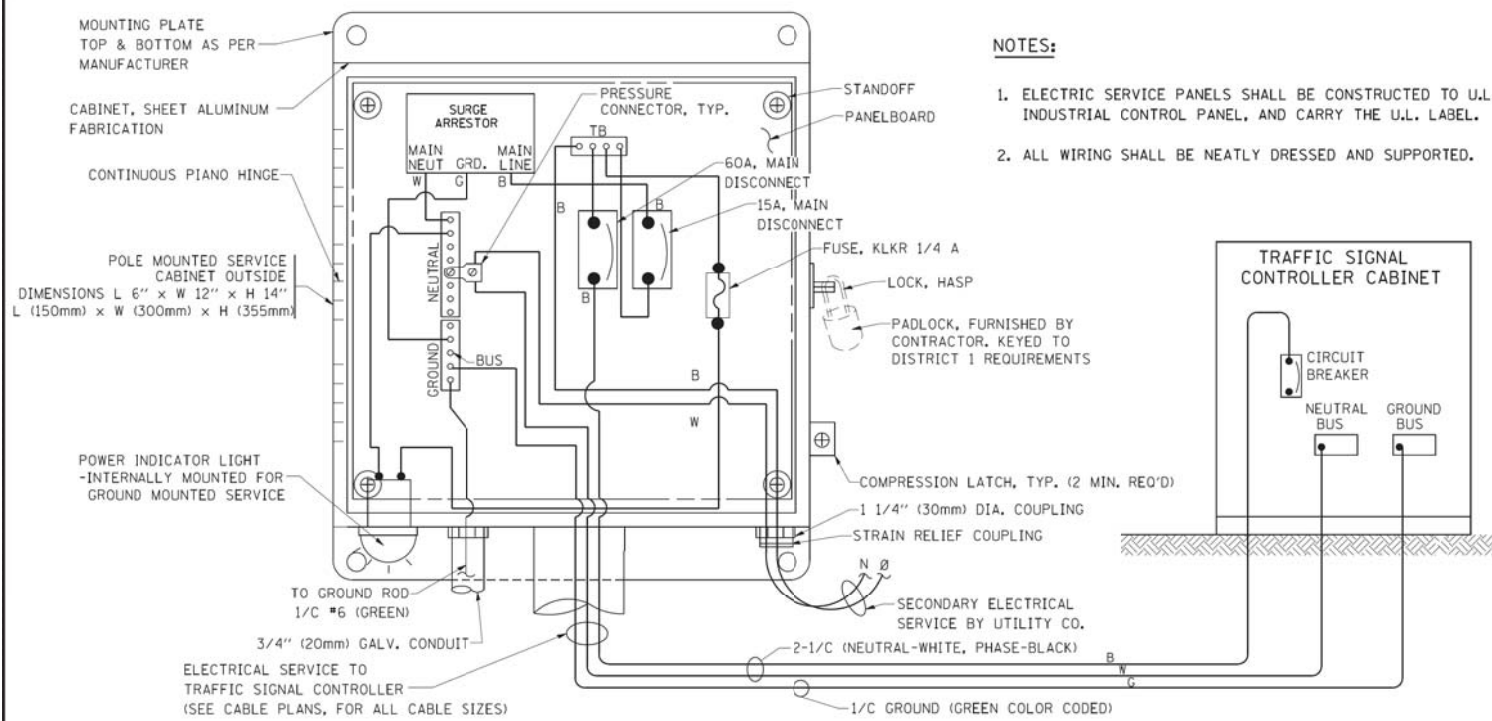
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DEPARTMENT OF TRANSPORTATION**

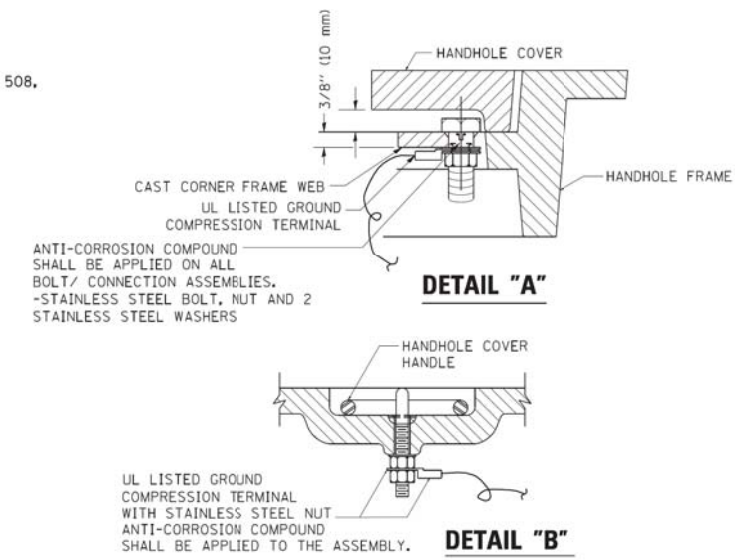
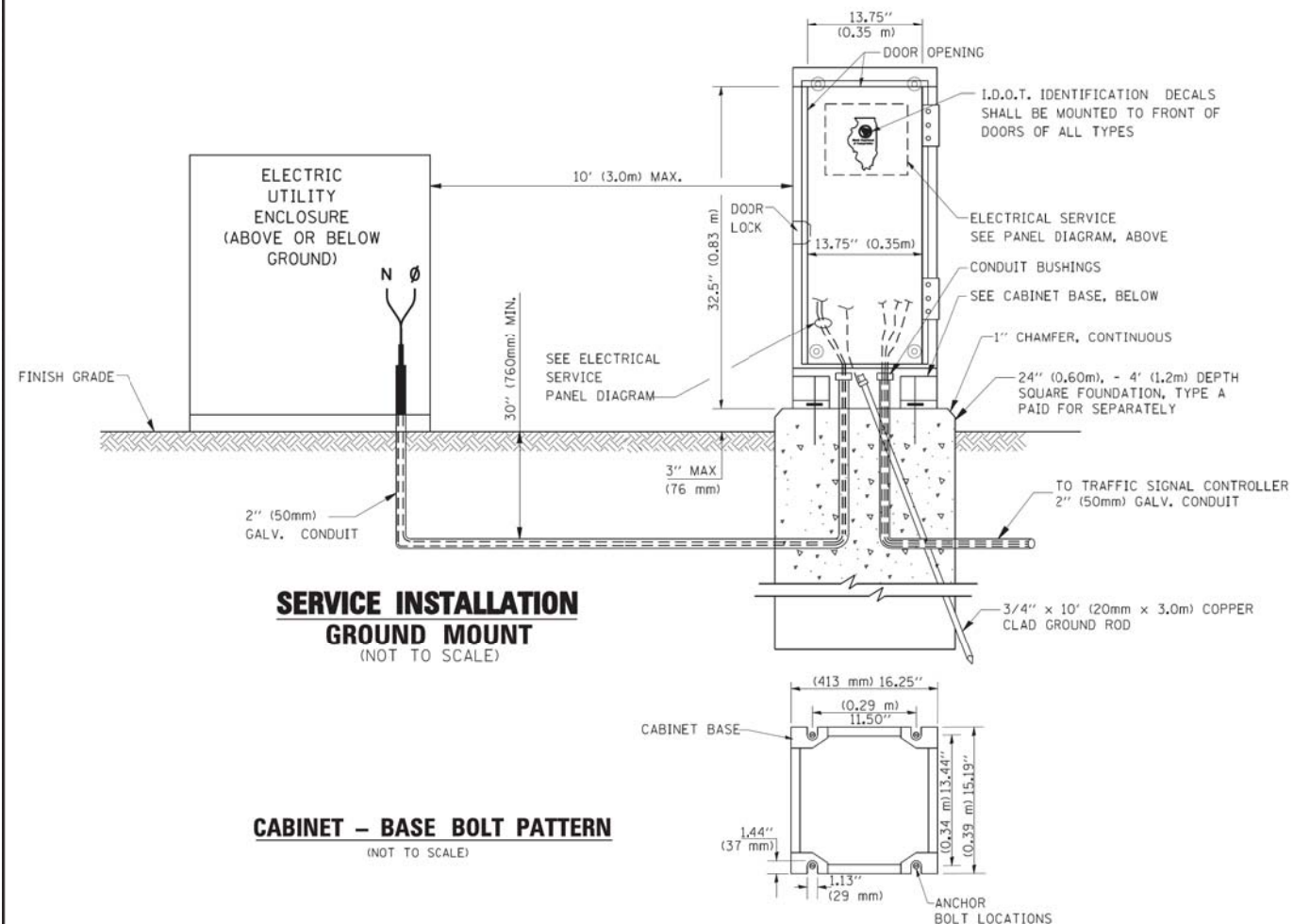
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	9
TS-05		CONTRACT NO. 60W38		
ILLINOIS FED. AID PROJECT				



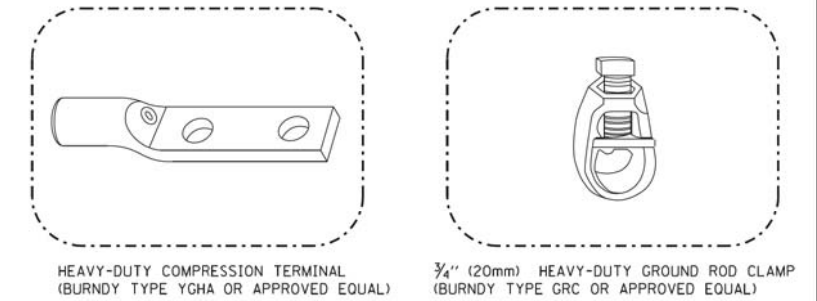
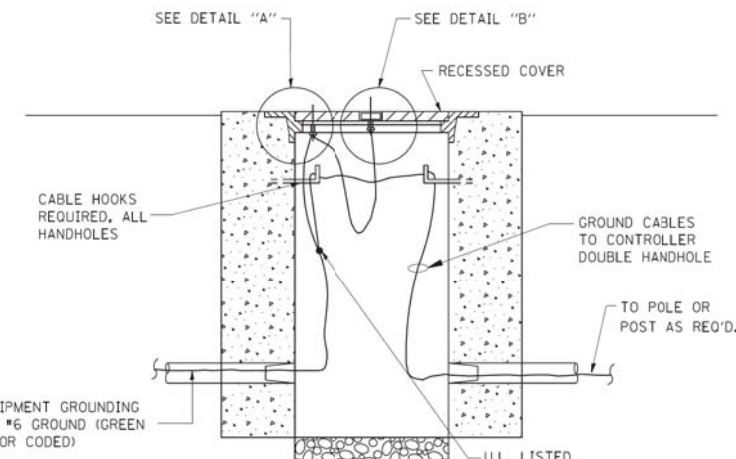
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



NOTES:

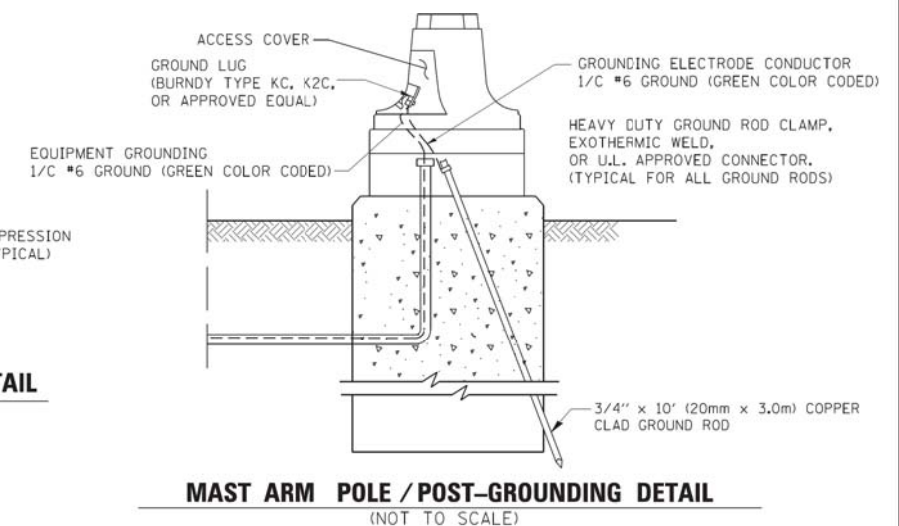
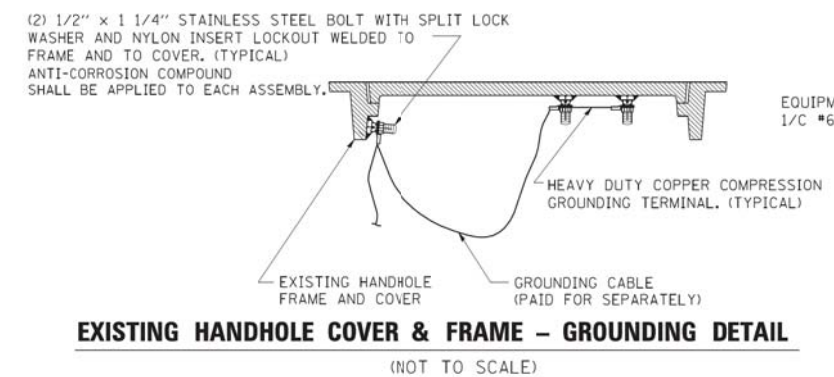
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



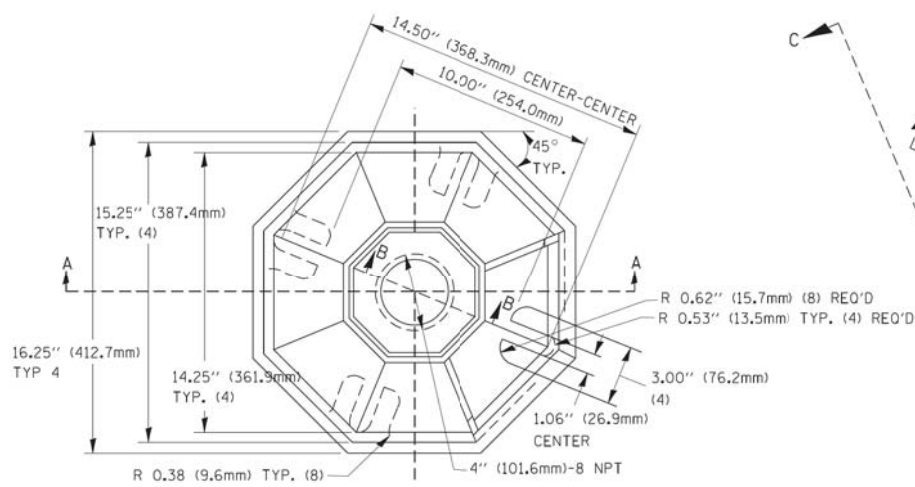
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

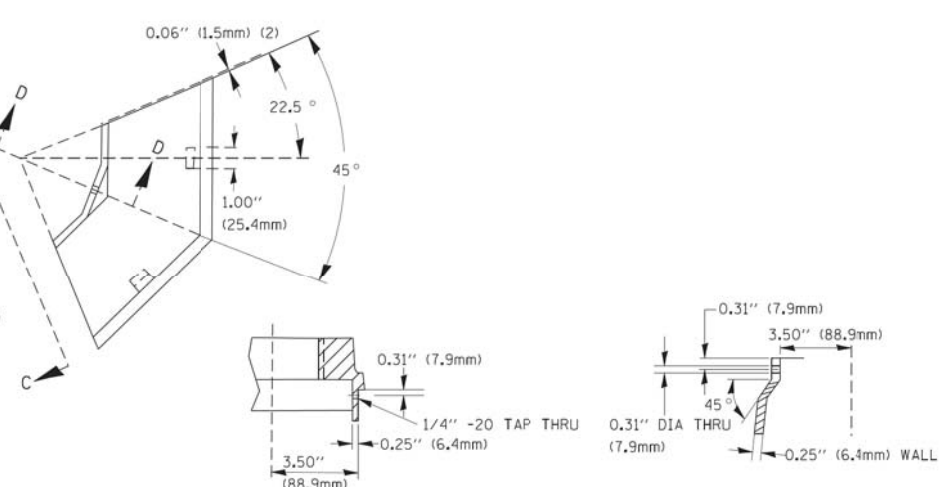
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 3 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	10
TS-05		CONTRACT NO. 60W38		
ILLINOIS FED. AID PROJECT				

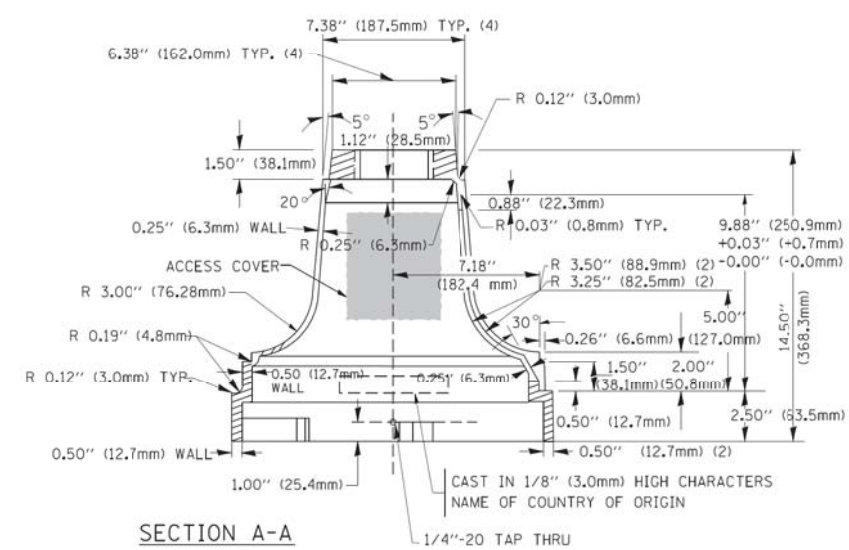


TOP VIEW

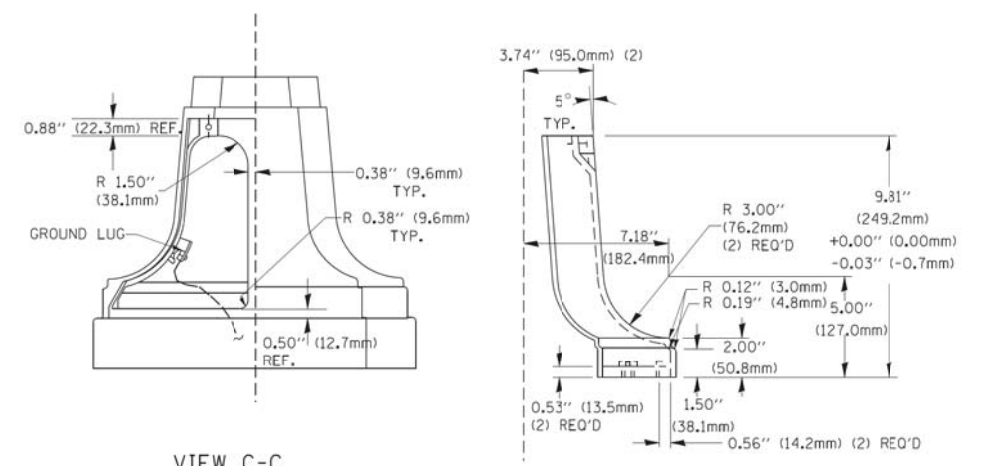


SECTION B-B

SECTION D-D

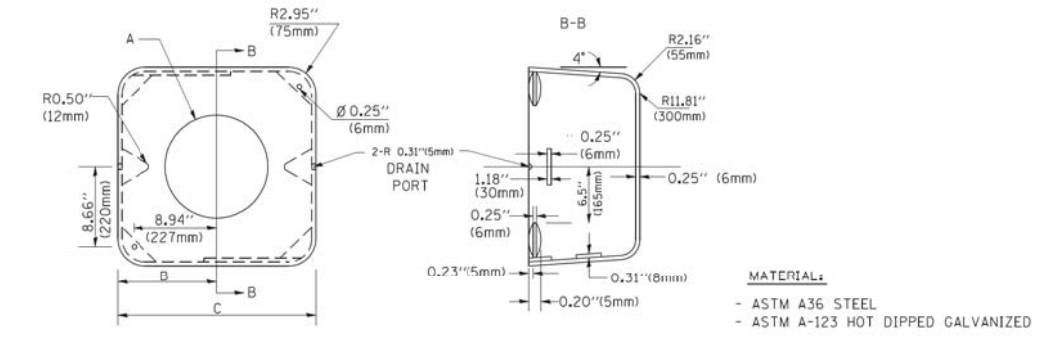


SECTION A-A



VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

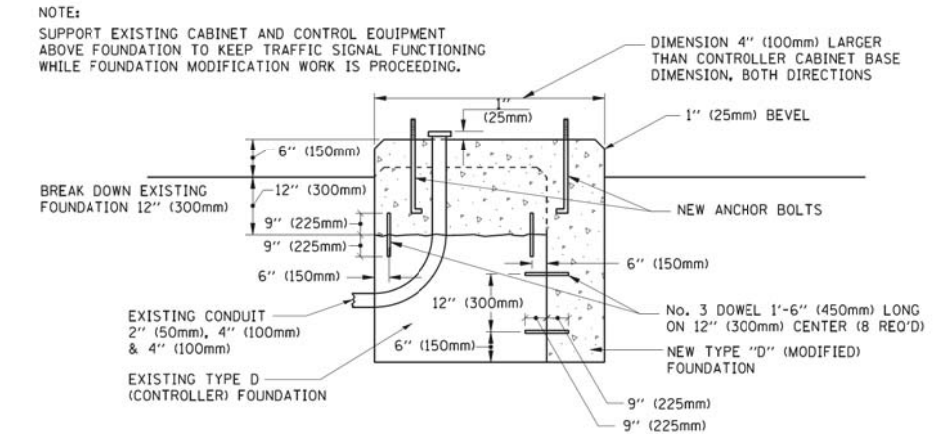


MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

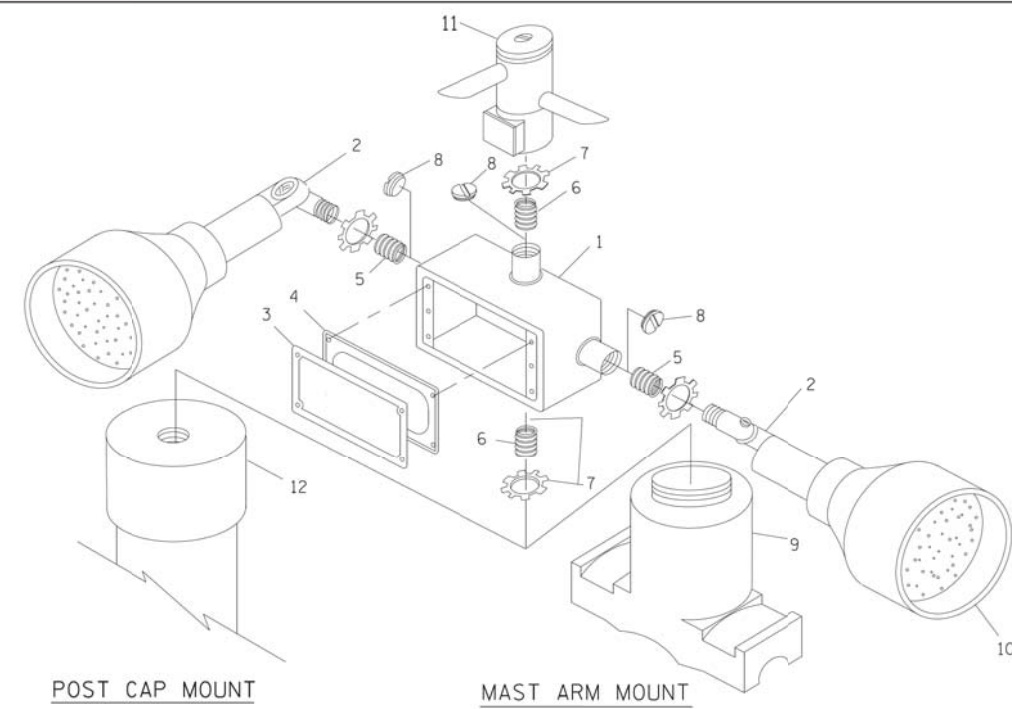
	A	B	C	HEIGHT	WEIGHT
	VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
	VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
	VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
	VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) -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

SHROUD

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



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

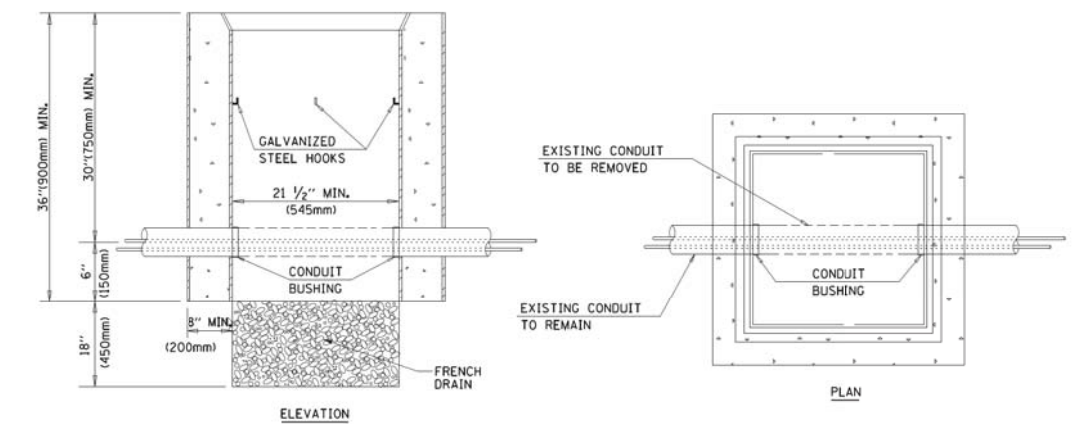
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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

NOTES:

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



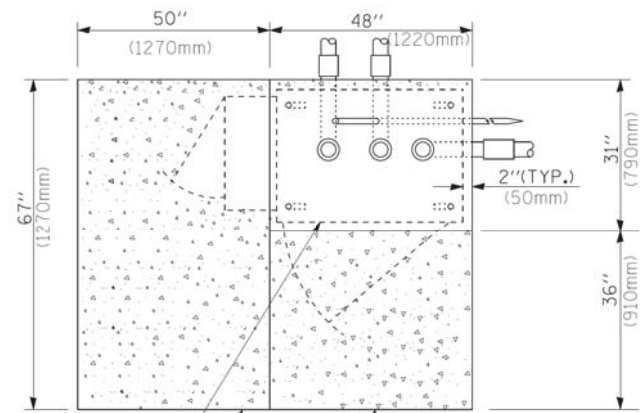
ELEVATION

PLAN

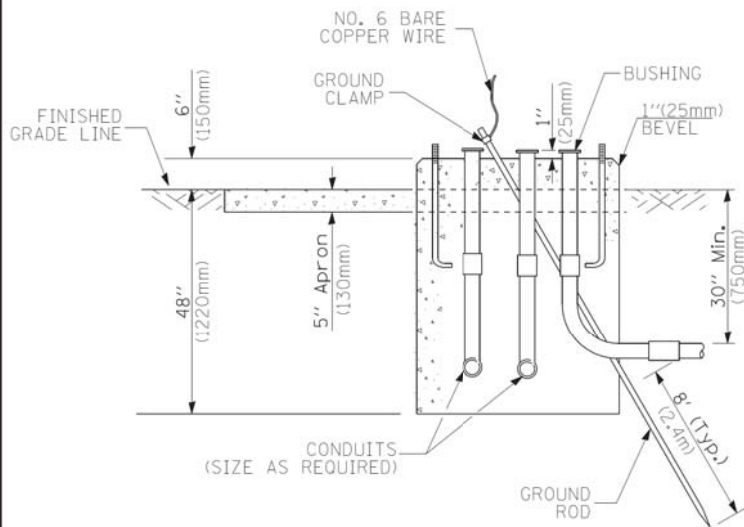
NOTES:

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

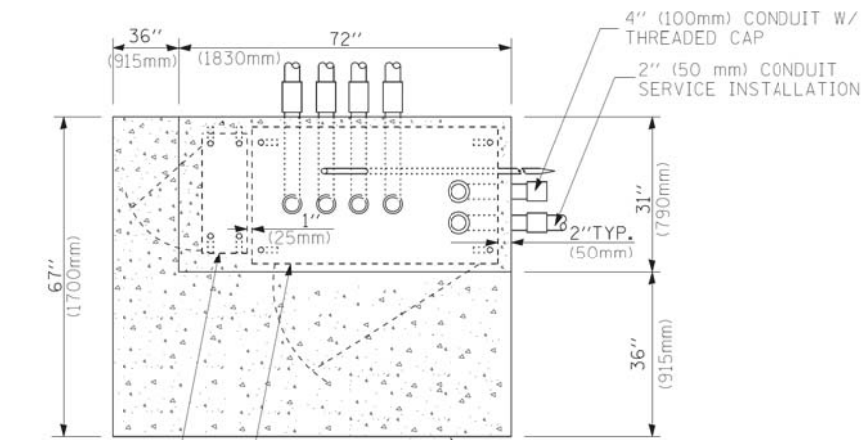
HANDHOLE TO INTERCEPT EXISTING CONDUIT



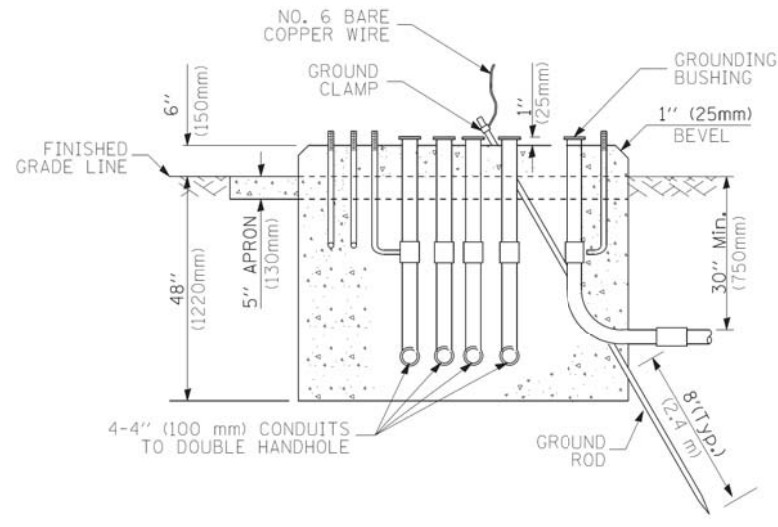
CONTROLLER CABINET BASE
EXISTING APRON
PROPOSED APRON
TOP VIEW



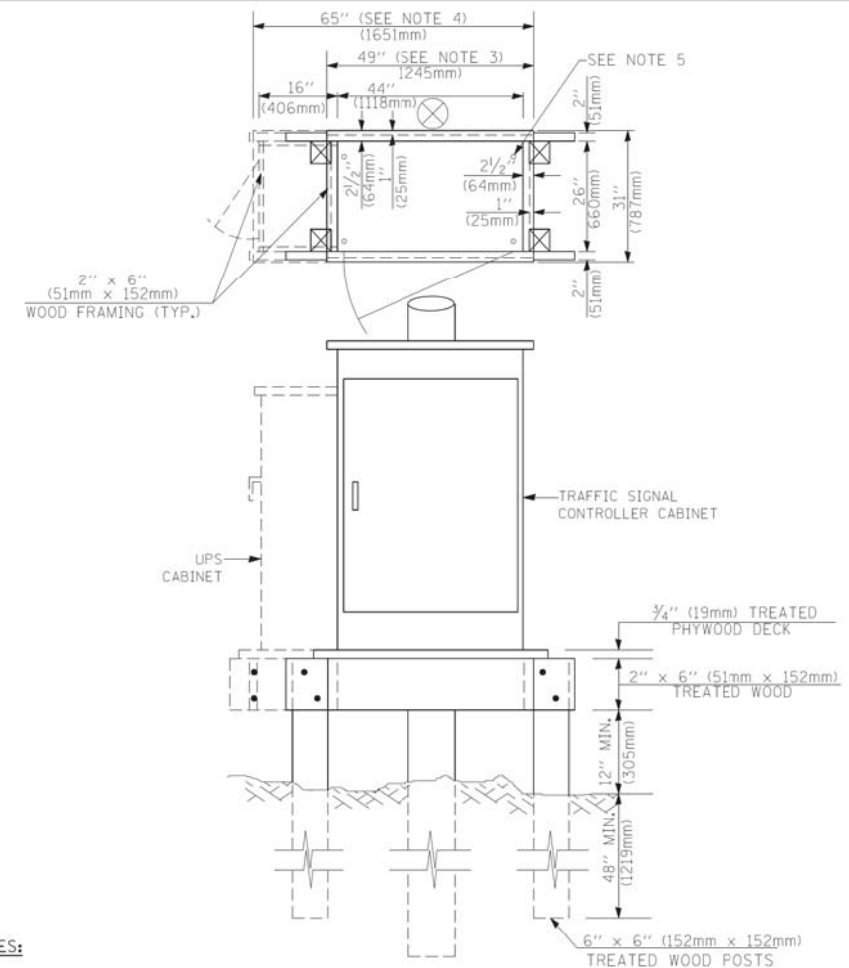
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



UPS CABINET BASE
CONTROLLER CABINET BASE
TOP VIEW
APRON



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

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

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	12
TS-05		CONTRACT NO. 60W38		
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

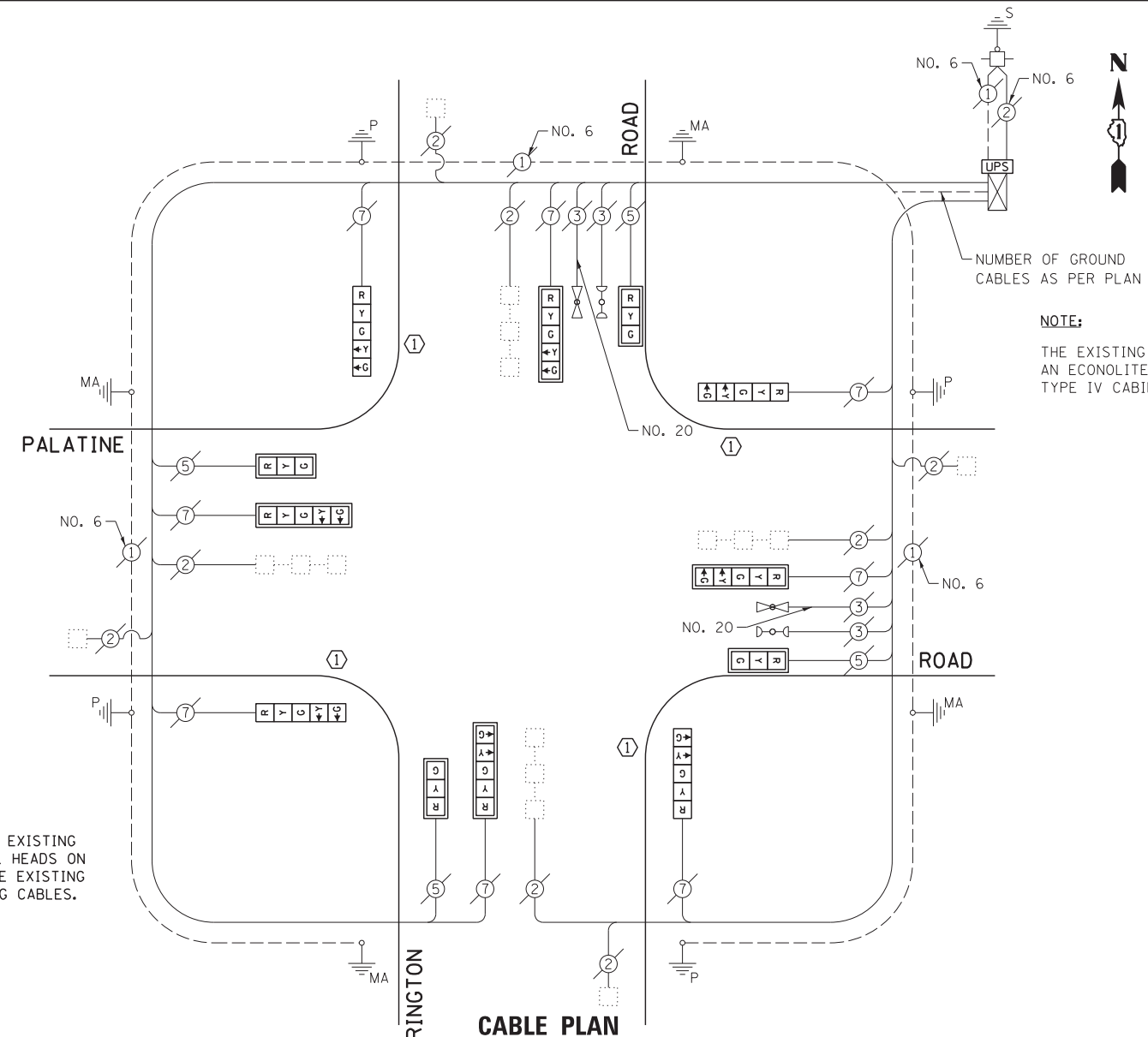
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)							
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE							
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				CT			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CNC			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S		S			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I		IP			
SIGNAL POST				REMOVE ITEM	R						
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL						
GUY WIRE				ABANDON ITEM	A						
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION							
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE							
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE							
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD							
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL							
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

SCHEDULE OF QUANTITIES
BARRINGTON ROAD AT PALATINE ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
5.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
6.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
7.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
8.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
9.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC-8000 IN A TYPE IV CABINET.

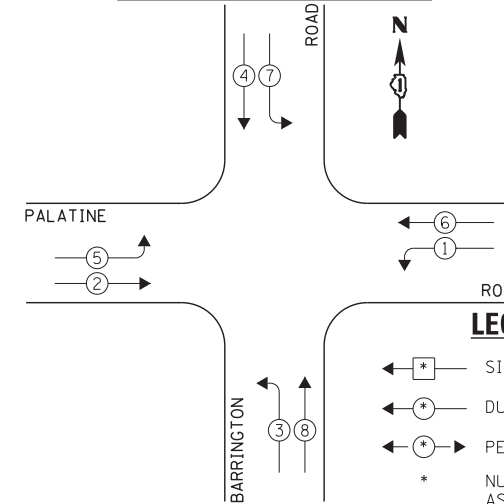
CONSTRUCTION NOTE:

- ① REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 16 FOOT PAINTED POST. INSTALL NEW SIGNAL HEADS ON NEW 16 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES.

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

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

EXISTING CONTROLLER SEQUENCE

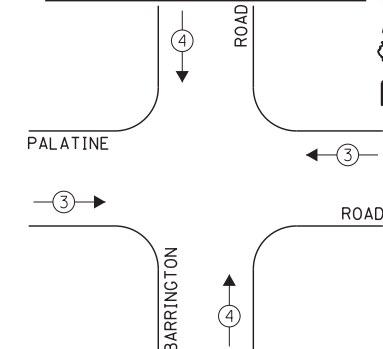


LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
		INCAND.	L.E.D.		
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					366.2

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D160W38-014.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
BARRINGTON ROAD AT PALATINE ROAD

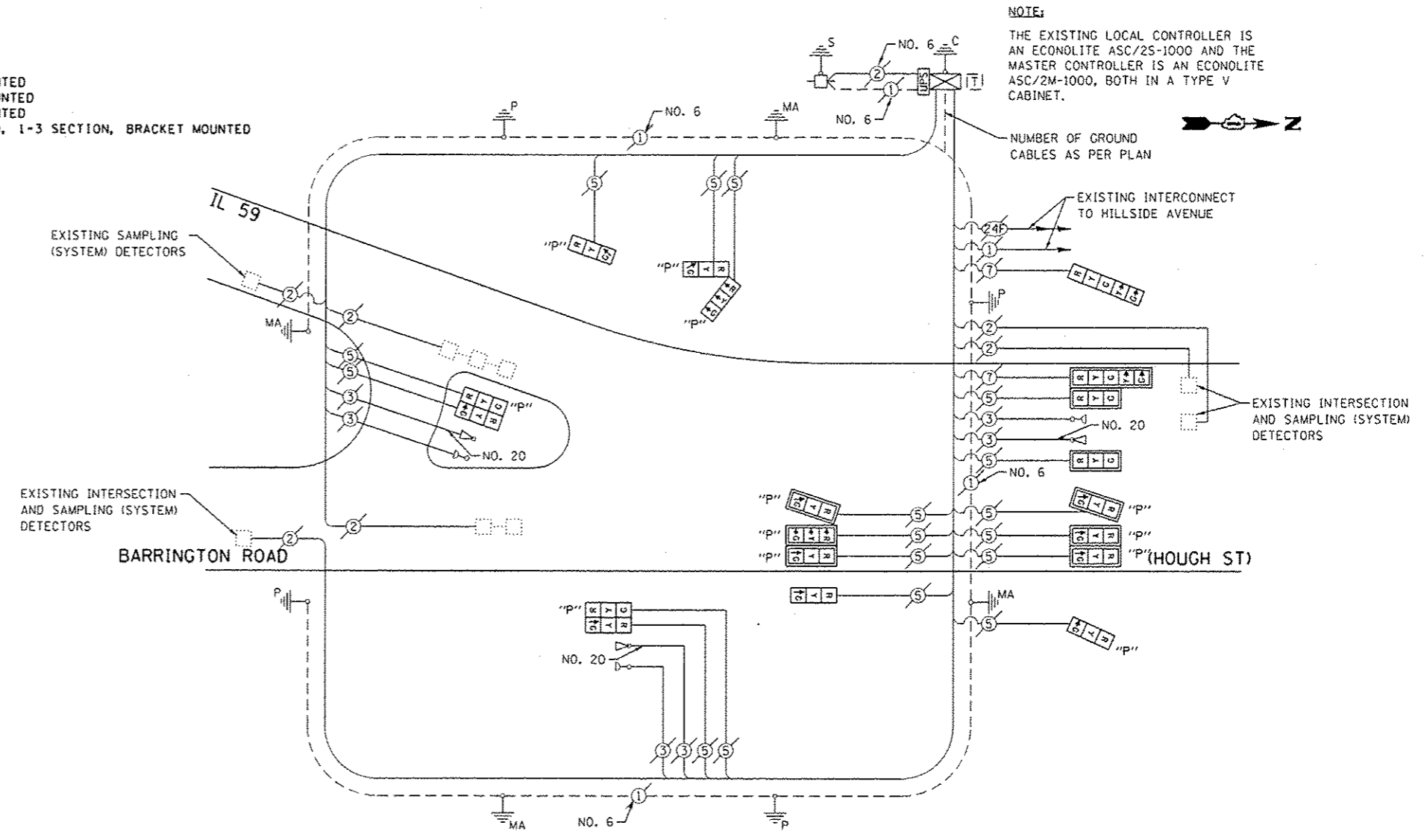
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	14
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 59 (HOUGH ST) AT BARRINGTON ROAD

NO.	QUANT.	UNIT
1.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	2	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3.	1	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4.	1	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
5.	1	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
6.	2	EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
7.	6	EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
8.	1	EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
9.	2	EACH COMBINATION SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION OPTICALLY PROGRAMMED, 1-3 SECTION, BRACKET MOUNTED
10.	9	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
11.	1	EACH MODIFY EXISTING CONTROLLER CABINET
12.	1	EACH REMOVE EXISTING SIGNAL EQUIPMENT
13.	1	EACH UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

NOTE:
THE EXISTING LOCAL CONTROLLER IS AN ECONOLITE ASC/2S-1000 AND THE MASTER CONTROLLER IS AN ECONOLITE ASC/2M-1000, BOTH IN A TYPE V CABINET.



CABLE PLAN

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.

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

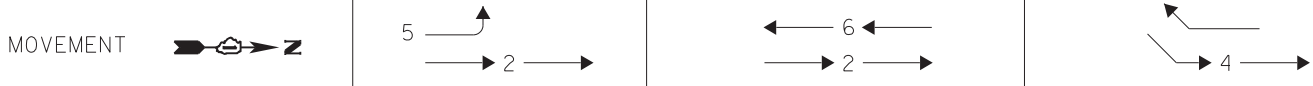
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. L.E.D.	OPERATION	
SIGNAL (RED)	19	135 17	0.50	161.5
SIGNAL (YELLOW)	19	135 25	0.25	118.75
SIGNAL (GREEN)	19	135 15	0.25	71.25
ARROW	4	135 12	0.10	4.8
PED. SIGNAL	-	90 25	1.00	-
CONTROLLER	1	- 100	1.00	100.0
LUMINAIRE	-	- 250	0.50	-
L.E.D. ST. NAME SIGN	-	- 64	0.50	-
VIDEO SYSTEM	-	- 150	1.00	-
BATTERY BACKUP	1	- 25	1.00	25.0
ILLUMINATED SIGN	-	- 25	0.05	-
TOTAL =				481.3

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME: D158W38-815.dgn	USER NAME: zwillston	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES & CABLE PLAN IL 59 (HOUGH ST) AT BARRINGTON ROAD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 28.8800' / 1" =	CHECKED - KLB	REVISED -	SCALE:	SHEET OF SHEETS	2013-007 T5	COOK	62	15	
	PLOT DATE = 5/24/2013	DATE - 05/10/13	REVISED -	STA. TO STA.		CONTRACT NO. 60W38 ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

MOVEMENT 										F L A S H																
PHASE	2 + 5						2 + 6						4													
INTERVAL	1	2A	2B	3A	3B	3C	3D	4	5A	5B	5C	5D	6A	6B	6C	6D	7	8A	8B	8C	8D	9A	9B	9C	9D	
CHANGE TO PHASE	2 + 6		4				4						2 + 5		2 + 6				2 + 5							
BARRINGTON ROAD - NB CENTER MAST ARM (NEAR) & FAR LEFT (NEAR)	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
BARRINGTON ROAD - NB NEAR RIGHT, FAR RIGHT (NEAR) & RIGHT MAST ARM (NEAR)	G	G	G	Y	R	R	R	G	Y	R	R	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R
BARRINGTON ROAD - NB CENTER & RIGHT MAST ARM (FAR)	G	G	G	G	G	Y	R	G	G	G	Y	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R
BARRINGTON ROAD - SB NEAR RIGHT & RIGHT MAST ARM	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R	R	G	G	G	G	G	G	G	R	R
BARRINGTON ROAD - SB FAR RIGHT	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R	R	G	G	G	G	G	G	G	Y	R
BARRINGTON ROAD - SB LEFT & CENTER MAST ARM	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R
BARRINGTON ROAD - SB FAR CENTER & FAR LEFT	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R
ILLINOIS ROUTE 59 - NE/B NEAR RIGHT, FAR LEFT (NEAR) & LEFT MAST ARM (NEAR)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	Y	R	R	R
ILLINOIS ROUTE 59 - NE/B LEFT MAST ARM (FAR) & FAR RIGHT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	G	G	Y	R

EMERGENCY VEHICLE PRE-EMPTION SEQUENCE

CHANGE FROM NORMAL SEQUENCE OF OPERATIONS INTERVAL NUMBER															PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	CLEAR TO NORMAL SEQUENCE				
	1	1	1	4	4	4	7	7	7	2	3	4										
EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1O	1P	2	3	4			
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	3	1E	4	1G	2	1I	3	1K	4	1M	2	1O	3	1R	4				◇	
BARRINGTON ROAD - NB CENTER MAST ARM (NEAR) & FAR LEFT (NEAR)	G	Y	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R		◇	
BARRINGTON ROAD - NB, NEAR RIGHT, FAR RIGHT (NEAR) & RIGHT MAST ARM (NEAR)	G	Y	R	Y	R	G	G	Y	R	Y	R	R	R	R	R	R	G	R	R		◇	
BARRINGTON ROAD - NB CENTER & RIGHT MAST ARM (FAR)	G	Y	R	Y	R	G	G	Y	R	Y	R	R	R	R	R	R	G	R	R		◇	
BARRINGTON ROAD - SB NEAR RIGHT & RIGHT MAST ARM	R	R	R	R	R	Y	R	Y	R	Y	R	Y	R	R	R	R	G	R	R		◇	
BARRINGTON ROAD - SB FAR RIGHT	R	R	R	R	R	Y	R	G	G	Y	R	Y	R	G	G	Y	R	R	R		◇	
BARRINGTON ROAD - SB LEFT & CENTER MAST ARM	R	R	R	R	R	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R		◇	
BARRINGTON ROAD - SB FAR CENTER & FAR LEFT	R	R	R	R	R	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R		◇	
ILLINOIS ROUTE 59 - NE/B, NEAR RIGHT, FAR LEFT (NEAR) & LEFT MAST ARM (NEAR)	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	G	G	R		◇	
ILLINOIS ROUTE 59 - NE/B LEFT MAST ARM (FAR) & FAR RIGHT	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	G	G	R		◇	

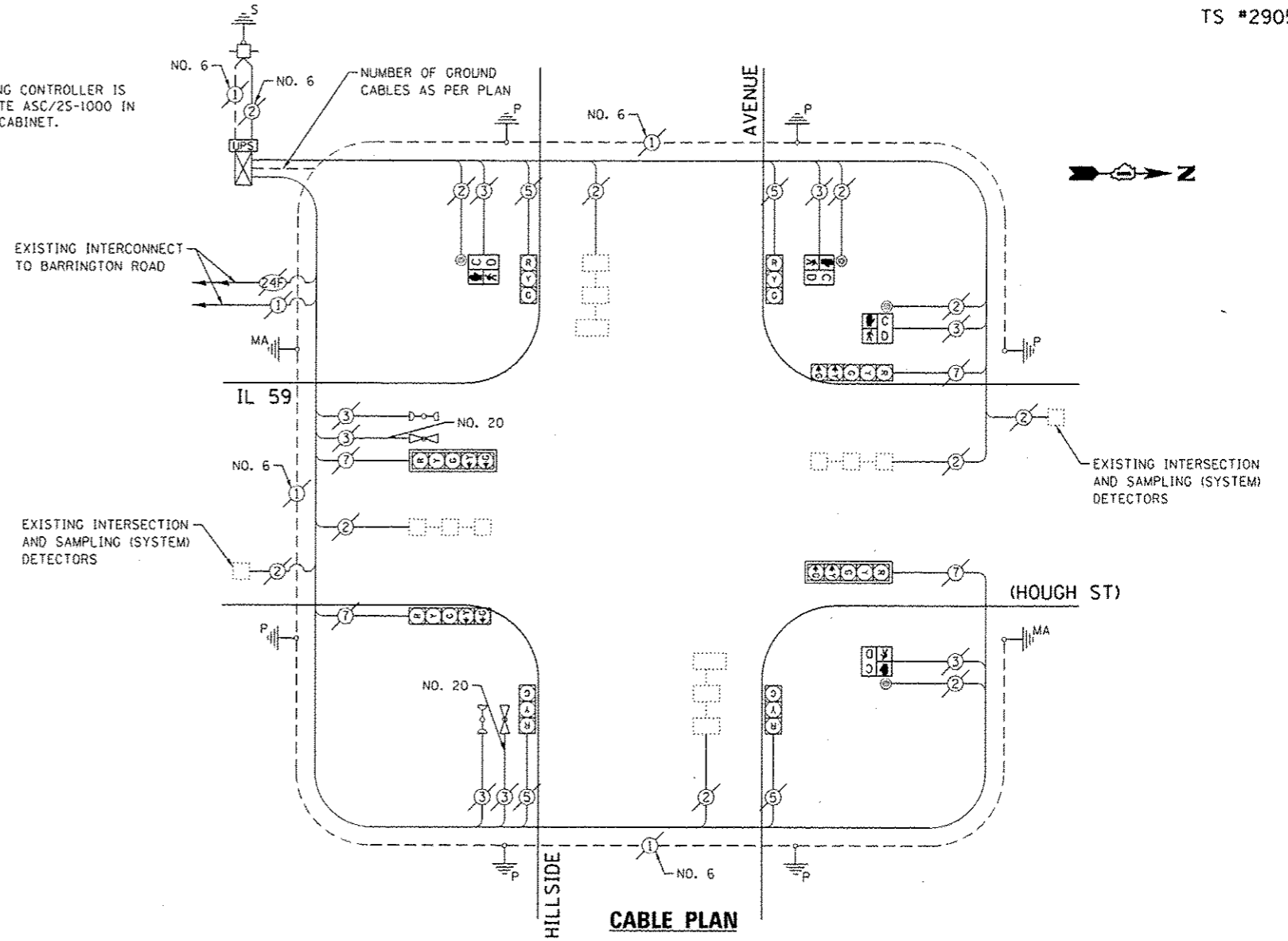
◇ NOTE: EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3 OR 4 IS TERMINATED.

* PRE-EMPTOR NUMBERS 1 & 2 ARE RESERVED FOR RAILROAD PRE-EMPTION

SCHEDULE OF QUANTITIES
IL 59 (HOUGH ST) AT HILLSIDE AVENUE

NO.	QUANT.	UNIT
1.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	4	EACH PEDESTRIAN PUSH-BUTTON
4.	1	EACH MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

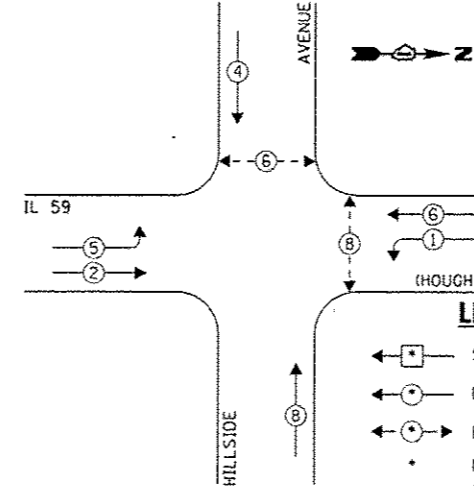
NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/25-1000 IN A TYPE IV CABINET.



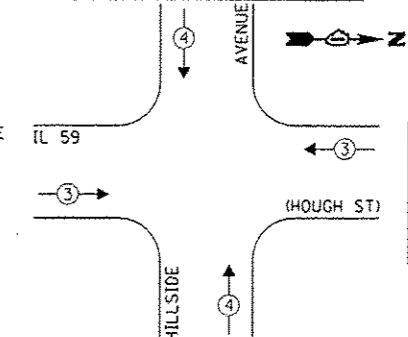
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ◀ [Symbol] SINGLE ENTRY PHASE
- ◀ [Symbol] DUAL ENTRY PHASE
- ◀ [Symbol] PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	4

EXISTING PHASE DESIGNATION DIAGRAM

I.O.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	8	135	17	0.50	68.0
SIGNAL (YELLOW)	8	135	25	0.25	50.0
SIGNAL (GREEN)	8	135	15	0.25	30.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					382.6

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME	USER NAME	DESIGNED	REVISED
0168W38-017.dgn	zwillator	JRD	-
Default		CW3	-
		KLK	-
		05/10/13	-

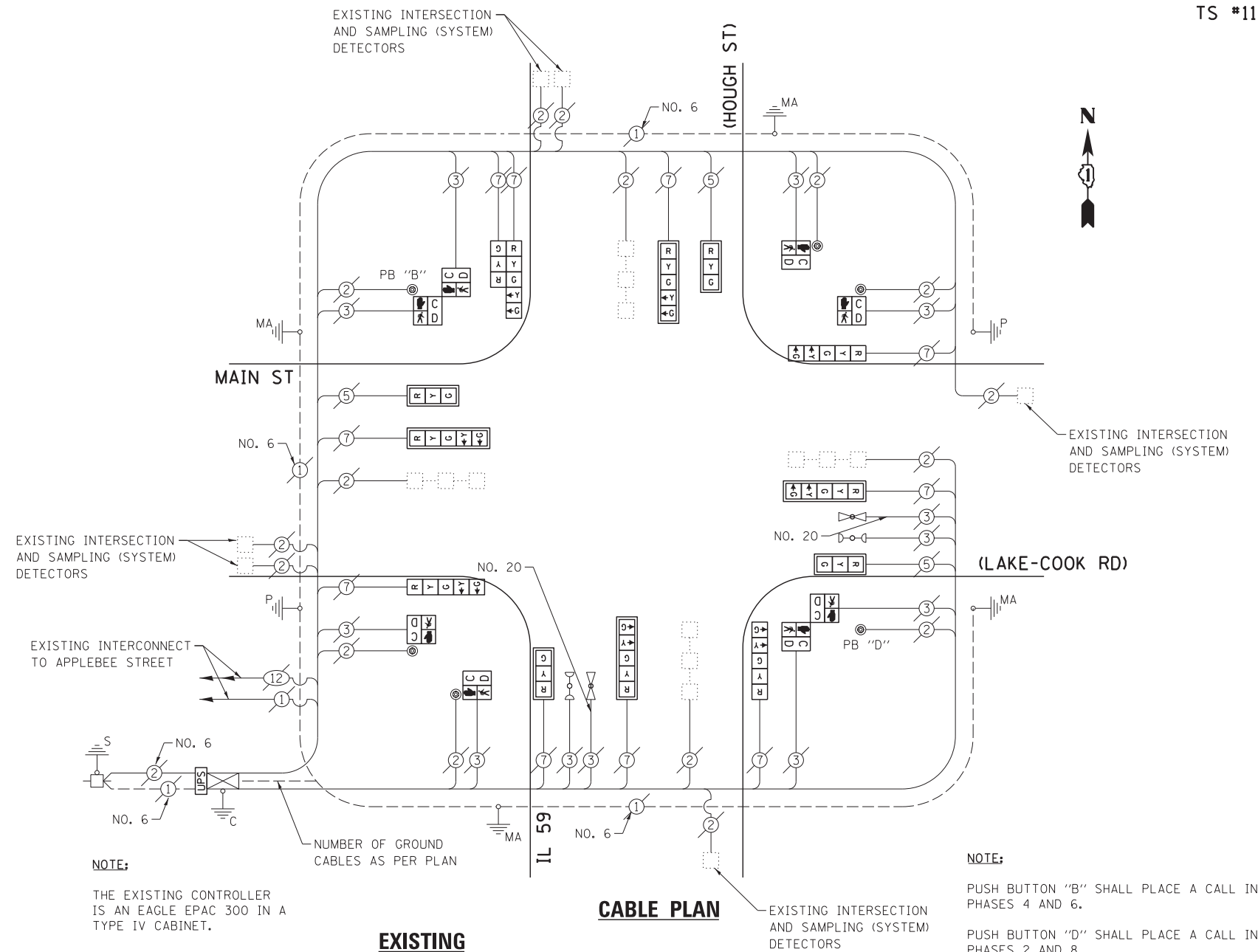
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 59 (HOUGH ST) AT HILLSIDE AVENUE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	17
CONTRACT NO. 60W38			CHA #4085.889	
[ILLINOIS] FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 59 (HOUGH ST) AT MAIN STREET (LAKE-COOK RD)

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
5.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
6.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
7.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8.	8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
10.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
12.	6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



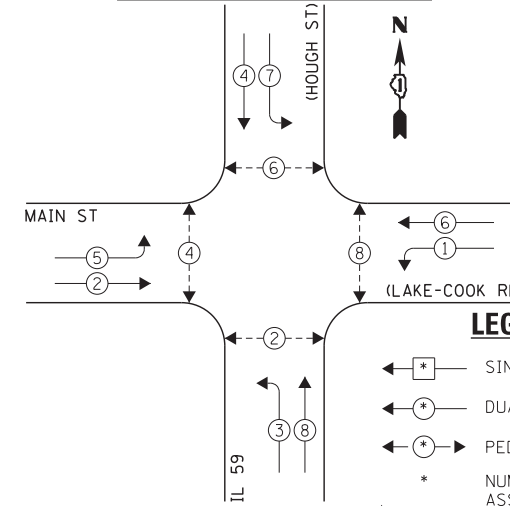
NOTE:
THE EXISTING CONTROLLER IS AN EAGLE EPAC 300 IN A TYPE IV CABINET.

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

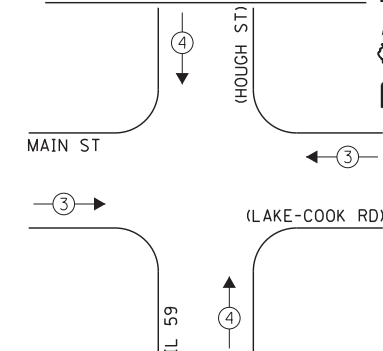
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	86.25
SIGNAL (GREEN)	13	135	15	0.25	48.75
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					589.7

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP".

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-018.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 59 (HOUGH ST) AT MAIN STREET (LAKE-COOK RD)

SCALE: SHEET OF SHEETS STA. TO STA.

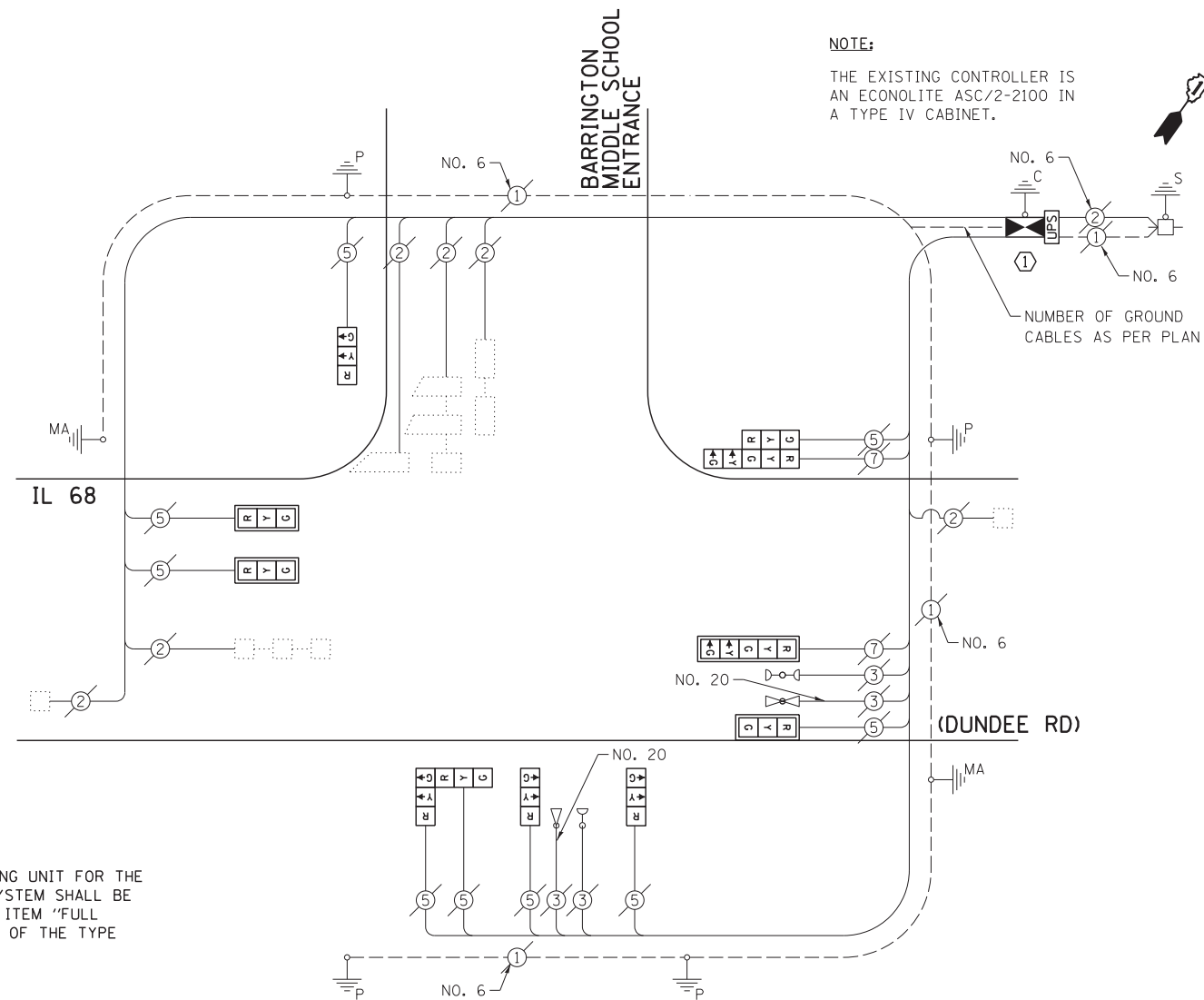
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	18
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

IL 68 (DUNDEE RD) AT BARRINGTON MIDDLE SCHOOL ENTRANCE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
3.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
5.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
6.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9.	6	EACH	INDUCTIVE LOOP DETECTOR
10.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2100 IN A TYPE IV CABINET.



CONSTRUCTION NOTE:

① RELOCATION OF THE EXISTING PHASING UNIT FOR THE EMERGENCY VEHICLE PRE-EMPTION SYSTEM SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "FULL ACTUATED CONTROLLER AND CABINET OF THE TYPE SPECIFIED".

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

- 1 EACH CABINET AND CONTROLLER (COMPLETE)
- 6 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION
- 1 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH TRAFFIC SIGNAL HEAD, 2-FACE, 3-SECTION
- 1 EACH TRAFFIC SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	11	135	17	0.50	93.5
SIGNAL (YELLOW)	11	135	25	0.25	68.75
SIGNAL (GREEN)	11	135	15	0.25	41.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					333.3

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" COMPLIANT.

FILE NAME = D160W38-019.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

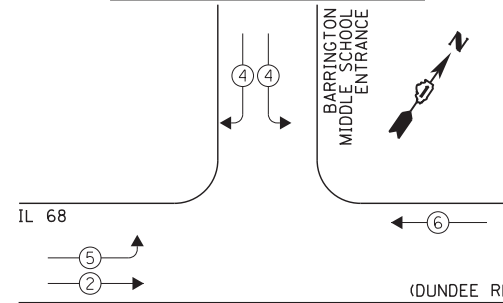
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 68 (DUNDEE RD) AT BARRINGTON MIDDLE SCHOOL ENTRANCE

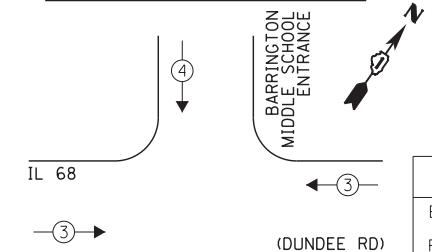
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	19
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * OL → OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	MOVEMENT	
3	←	4
	→	

EXISTING PHASE DESIGNATION DIAGRAM

SCHEDULE OF QUANTITIES
IL 68 (DUNDEE RD) AT BARRINGTON ROAD

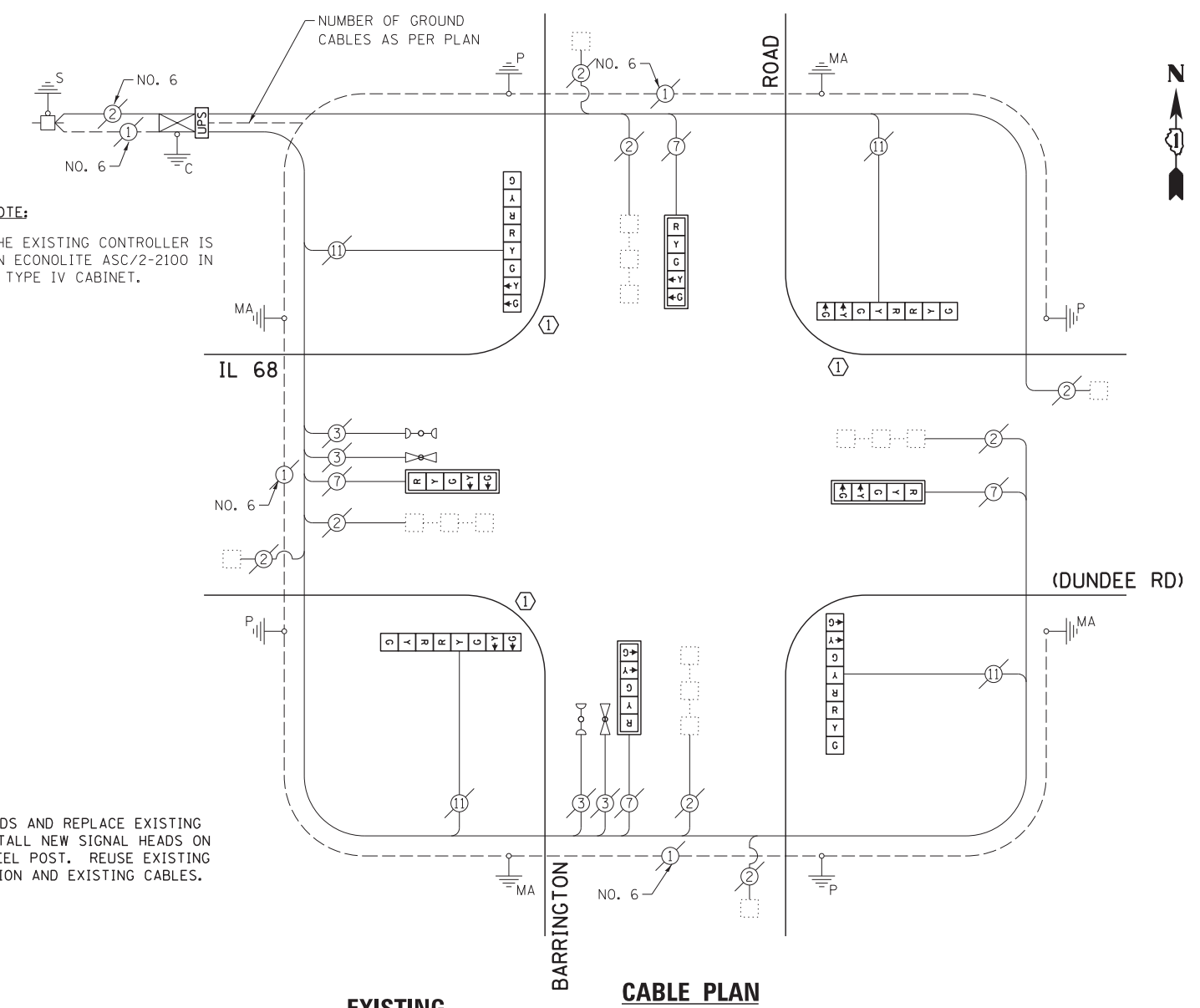
NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4.	4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
5.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
6.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
7.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2100 IN A TYPE IV CABINET.

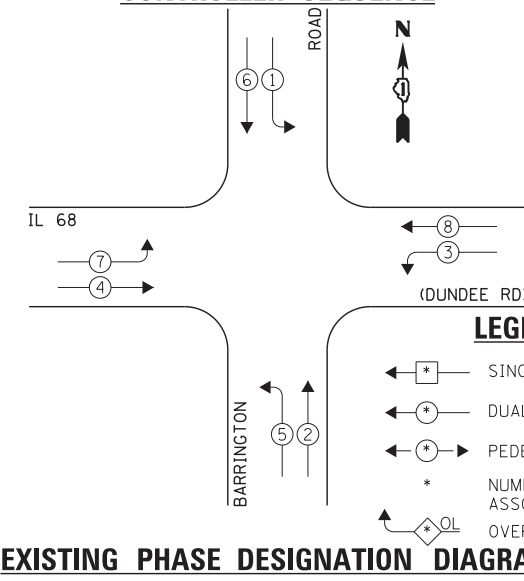
CONSTRUCTION NOTE:
① REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 16 FOOT PAINTED POST. INSTALL NEW SIGNAL HEADS ON NEW 16 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES.

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

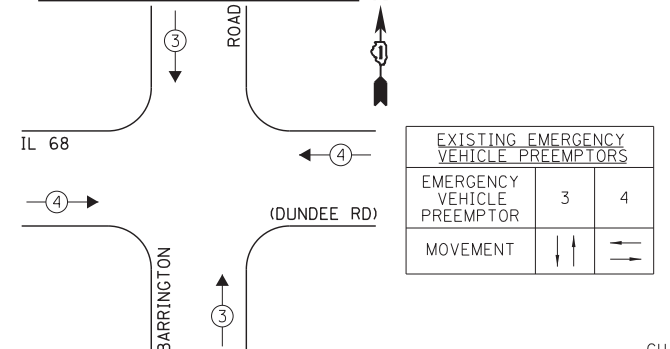
- 4 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH TRAFFIC SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 3 EACH TRAFFIC SIGNAL POST



EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:
 ← * → SINGLE ENTRY PHASE
 ← * → DUAL ENTRY PHASE
 ← * → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE
 * OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					366.2

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-020.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 68 (DUNDEE RD) AT BARRINGTON ROAD

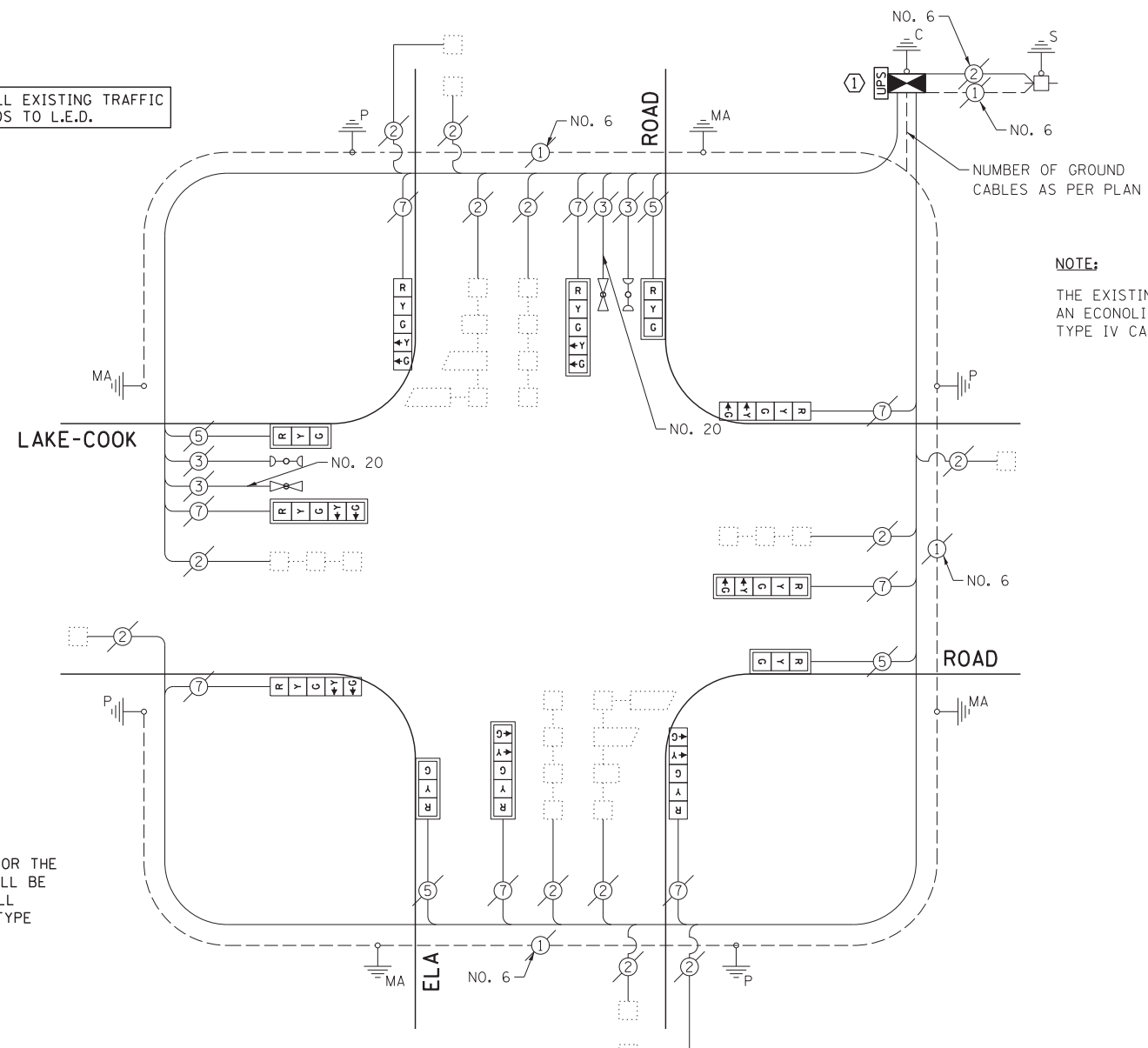
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	20
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
LAKE-COOK ROAD AT ELA ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
3.	10	EACH	INDUCTIVE LOOP DETECTOR
4.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
5.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
6.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
7.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
8.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

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



NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC-8000 IN A TYPE IV CABINET.

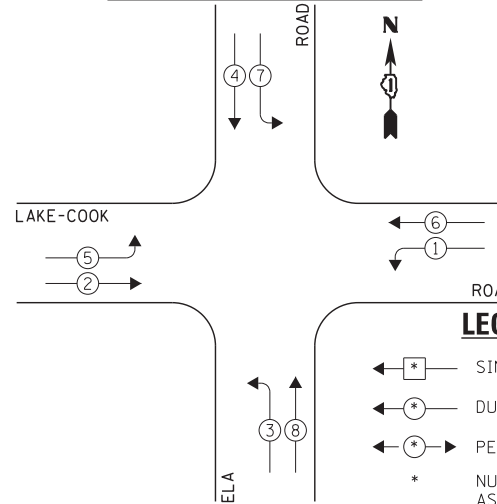
CONSTRUCTION NOTE:

- ① RELOCATION OF THE EXISTING PHASING UNIT FOR THE EMERGENCY VEHICLE PRE-EMPTION SYSTEM SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "FULL ACTUATED CONTROLLER AND CABINET OF THE TYPE SPECIFIED".

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

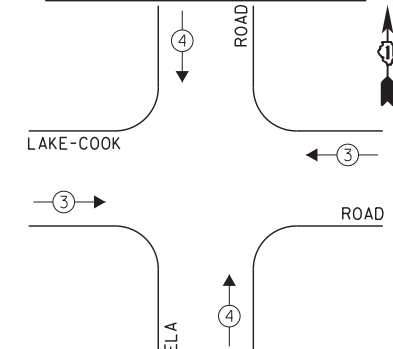
- 1 EACH CABINET AND CONTROLLER (COMPLETE)

EXISTING AND PROPOSED CONTROLLER SEQUENCE



- LEGEND:
- ← * → SINGLE ENTRY PHASE
 - ← * DUAL ENTRY PHASE
 - ← * → PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE
 - * OL OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	EXISTING	PROPOSED
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					366.2

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" COMPLIANT.

FILE NAME = D160W38-021.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
LAKE-COOK ROAD AT ELA ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

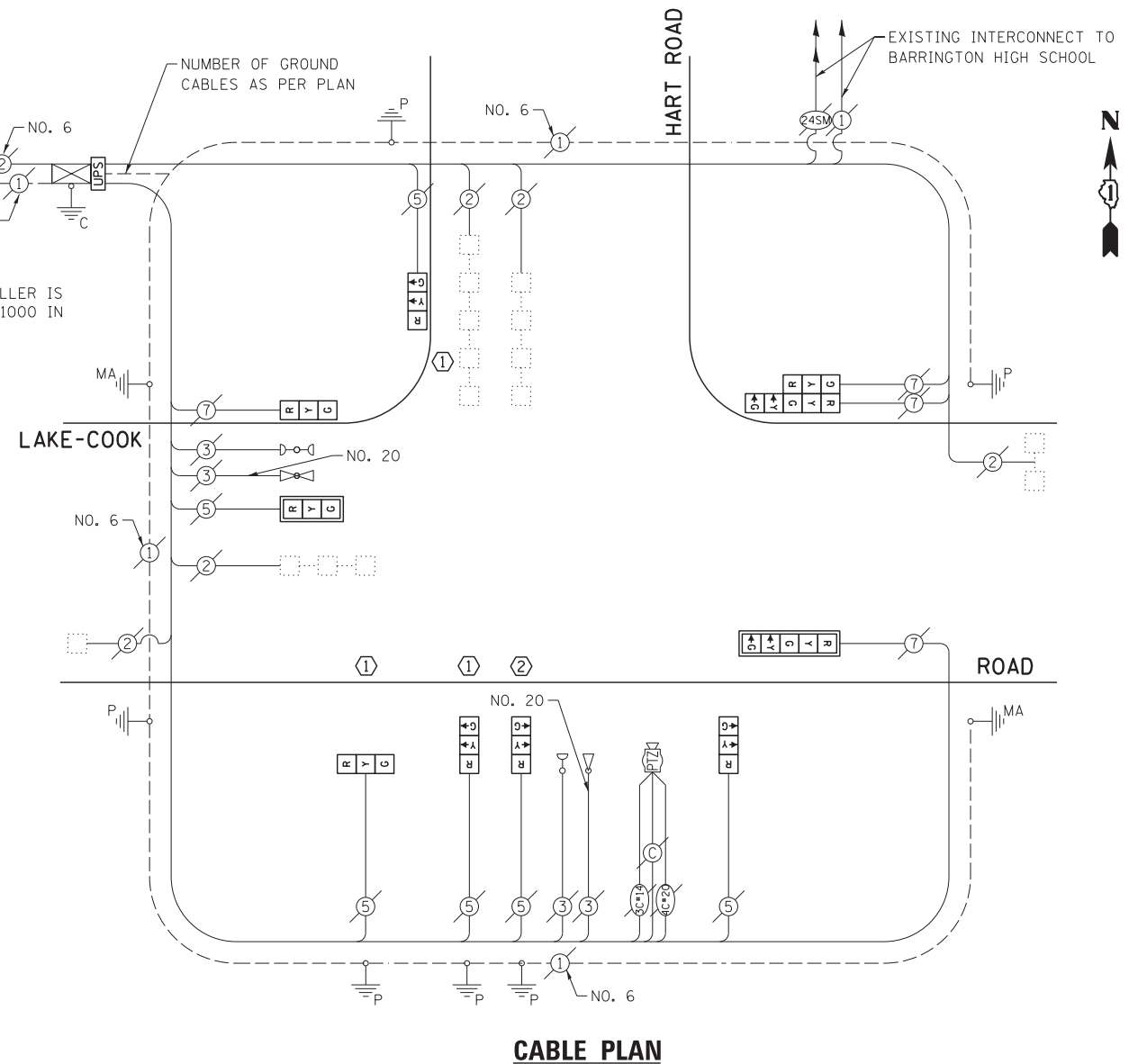
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	21
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
LAKE-COOK ROAD AT HART ROAD

TS #7185

NO.	QUANT.	UNIT
1.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	3	EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3.	1	EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
4.	1	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
5.	6	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
6.	1	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
7.	1	EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8.	2	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9.	1	EACH RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
10.	1	EACH MODIFY EXISTING CONTROLLER CABINET
11.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
12.	1	EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/3-1000 IN A TYPE IV CABINET.



CONSTRUCTION NOTE:

- REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 14 FOOT PAINTED POST. INSTALL NEW SIGNAL HEADS ON NEW 14 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES.
- REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 18 FOOT PAINTED POST. INSTALL NEW SIGNAL HEADS ON NEW 18 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES. REINSTALL EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT ON NEW POST.

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

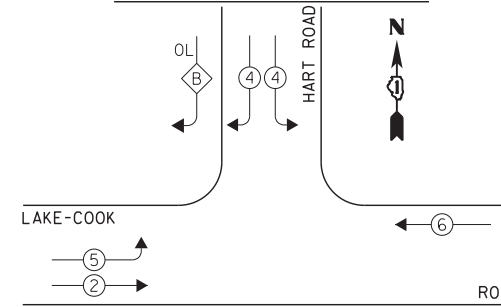
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	10	135	17	0.50	85.0
SIGNAL (YELLOW)	10	135	25	0.25	62.5
SIGNAL (GREEN)	10	135	15	0.25	37.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					314.8

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D160W38-022.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

EXISTING CONTROLLER SEQUENCE



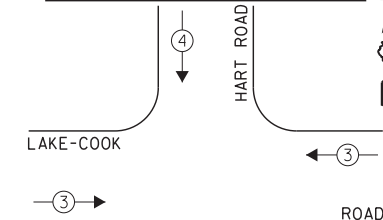
OVERLAP LETTER B = PERMISSIVE PHASE 4 + PROTECTED PHASE 5

LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
LAKE-COOK ROAD AT HART ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	22
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

GHA #4085.889

SCHEDULE OF QUANTITIES
MAIN STREET (LAKE-COOK RD) AT DUNDEE AVENUE

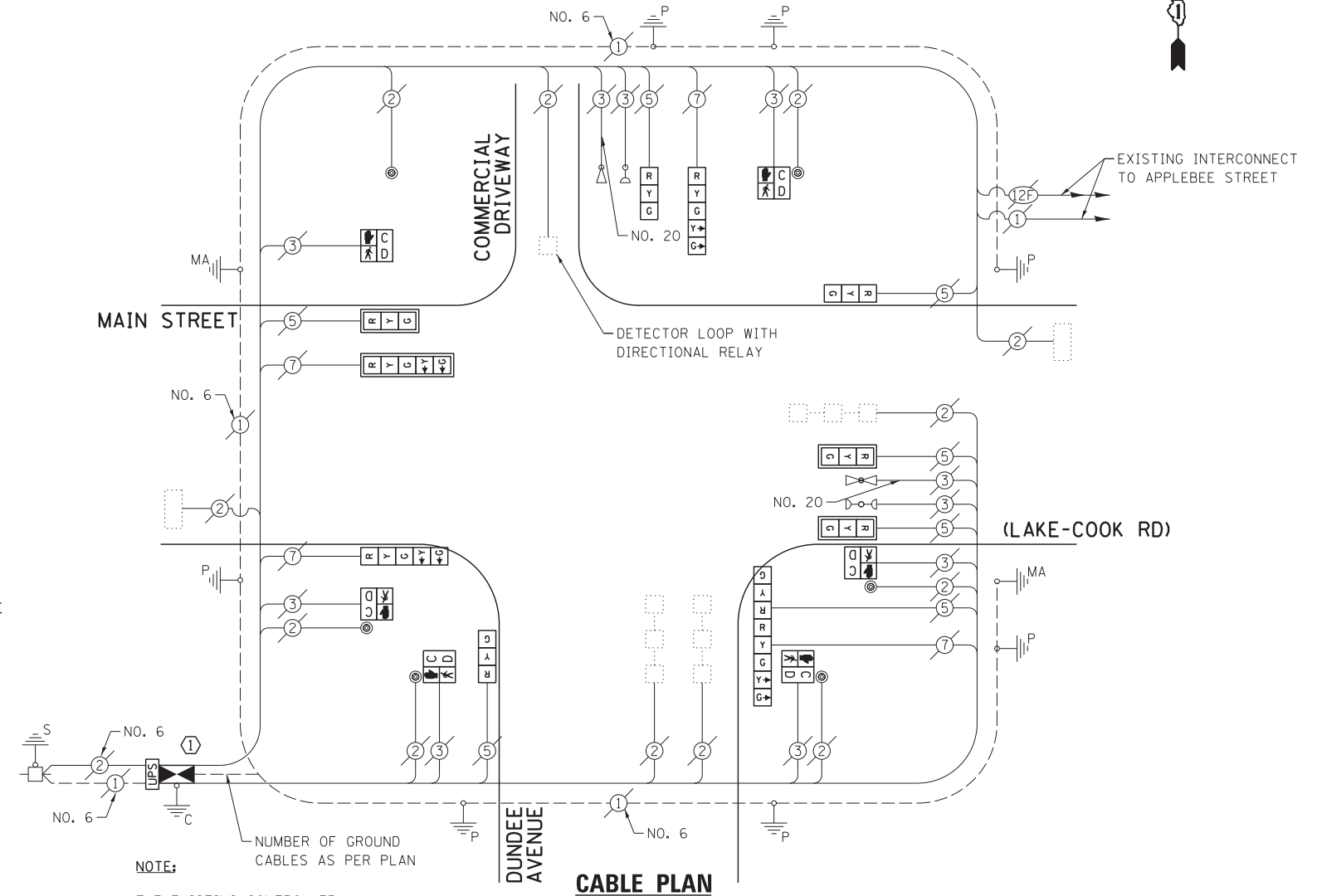
NO.	QUANT.	UNIT
1.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH TRANSCEIVER - FIBER OPTIC
3.	3	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4.	3	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
5.	2	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
6.	1	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
7.	1	EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8.	6	EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
9.	4	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
10.	6	EACH INDUCTIVE LOOP DETECTOR
11.	6	EACH PEDESTRIAN PUSH-BUTTON
12.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
13.	1	EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
14.	1	EACH UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

CONSTRUCTION NOTE:

- ① RELOCATION OF THE EXISTING PHASING UNIT FOR THE EMERGENCY VEHICLE PRE-EMPTION SYSTEM SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "FULL ACTUATED CONTROLLER AND CABINET OF THE TYPE SPECIFIED".

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

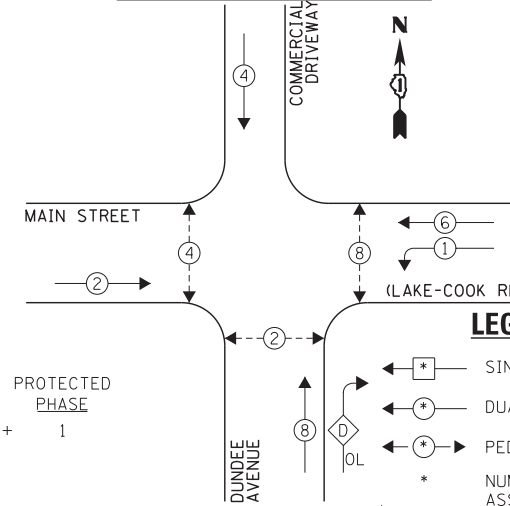
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 6 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION
- 3 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH TRAFFIC SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON



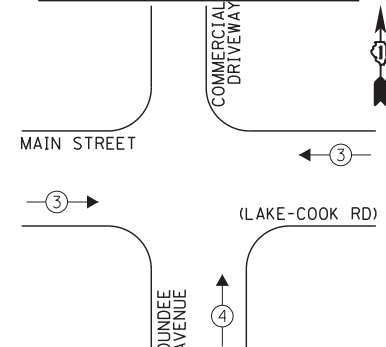
NOTE:

THE EXISTING CONTROLLER IS AN EAGLE EPAC 300 IN A PAINTED TYPE IV CABINET.

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	11	135	17	0.50	93.5
SIGNAL (YELLOW)	11	135	25	0.25	68.75
SIGNAL (GREEN)	11	135	15	0.25	41.25
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					488.1

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

OVERLAP LETTER D = 8 + 1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
MAIN STREET (LAKE-COOK RD) AT DUNDEE AVENUE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	23
CONTRACT NO. 60W38				
ILLINOIS FED. AID PROJECT				

FILE NAME = D160W38-023.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

SCHEDULE OF QUANTITIES
MAIN STREET (LAKE-COOK RD) AT APPLEBEE STREET

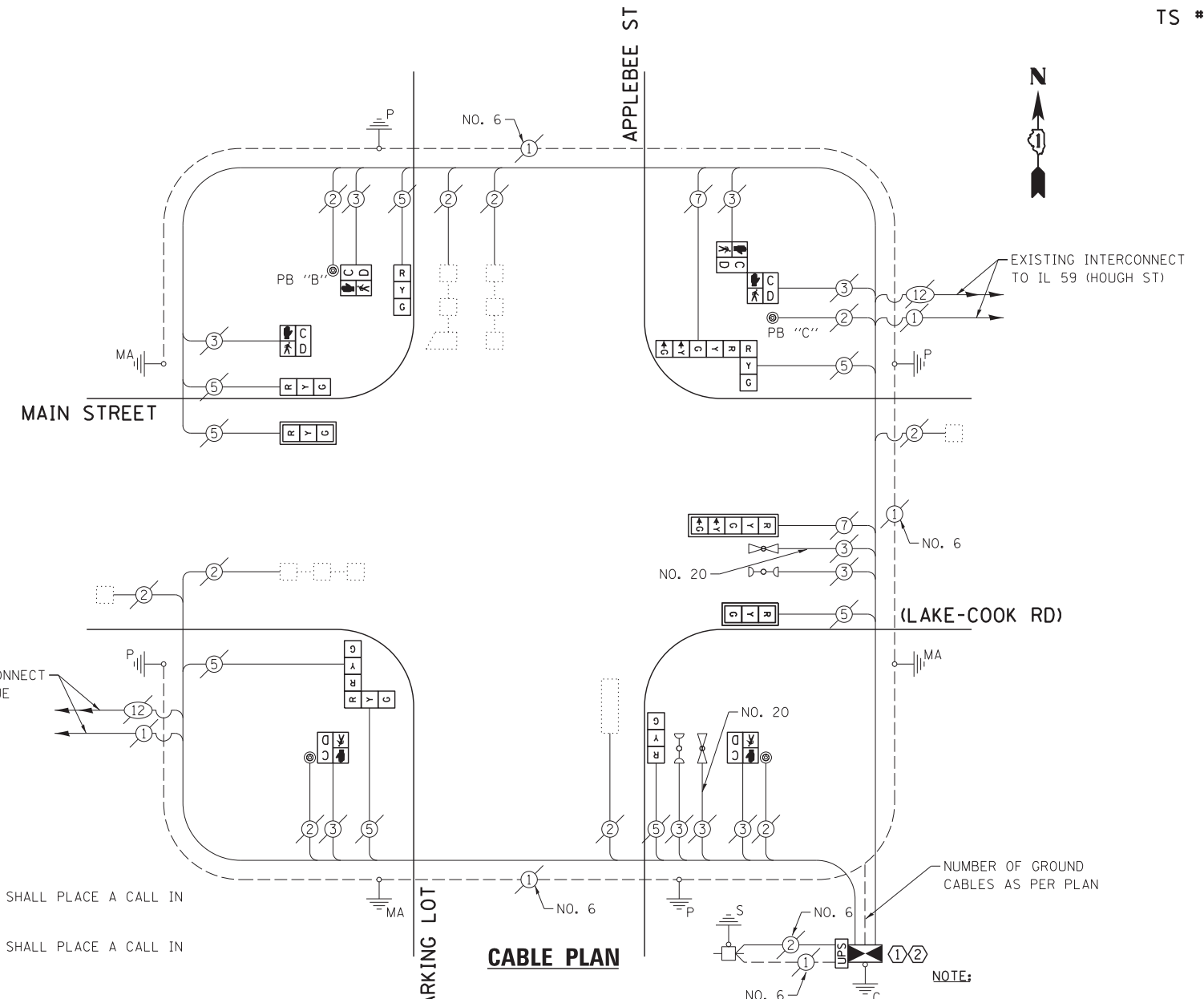
NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	TRANSCEIVER - FIBER OPTIC
3.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
5.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
6.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
8.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
9.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
10.	3	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
11.	6	EACH	INDUCTIVE LOOP DETECTOR
12.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
13.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
14.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
15.	4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

CONSTRUCTION NOTE:

- ① RELOCATION OF THE EXISTING PHASING UNIT FOR THE EMERGENCY VEHICLE PRE-EMPTION SYSTEM SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "FULL ACTUATED CONTROLLER AND CABINET OF THE TYPE SPECIFIED".
- ② INSTALL UNINTERRUPTABLE POWER SUPPLY (UPS) ON LEFT SIDE OF THE EXISTING CONTROLLER CABINET.

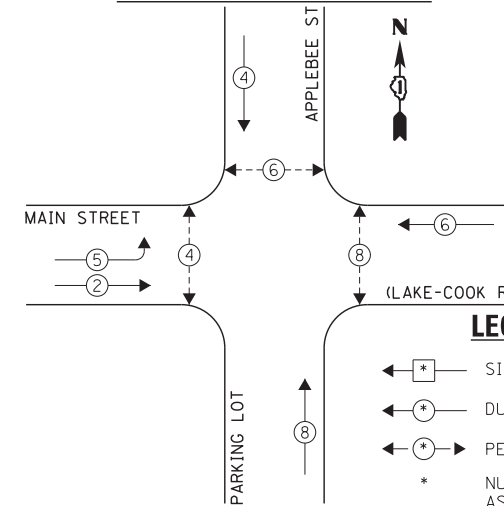
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 5 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION
- 1 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH TRAFFIC SIGNAL HEAD, 2-FACE, 3-SECTION
- 1 EACH TRAFFIC SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 3 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 4 EACH PEDESTRIAN PUSH-BUTTON



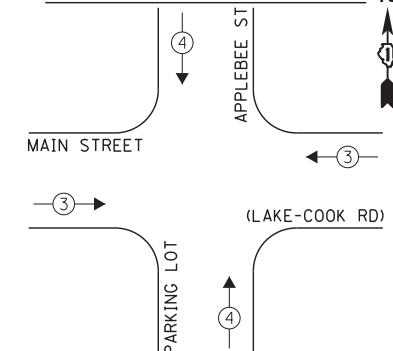
NOTE:
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.

EXISTING AND PROPOSED CONTROLLER SEQUENCE



- LEGEND:
- ← * → SINGLE ENTRY PHASE
 - ← * DUAL ENTRY PHASE
 - ← * → PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE
 - ← * → OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	← →	↑ ↓	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	10	135	17	0.50	85.0
SIGNAL (YELLOW)	10	135	25	0.25	62.5
SIGNAL (GREEN)	10	135	15	0.25	37.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					464.8

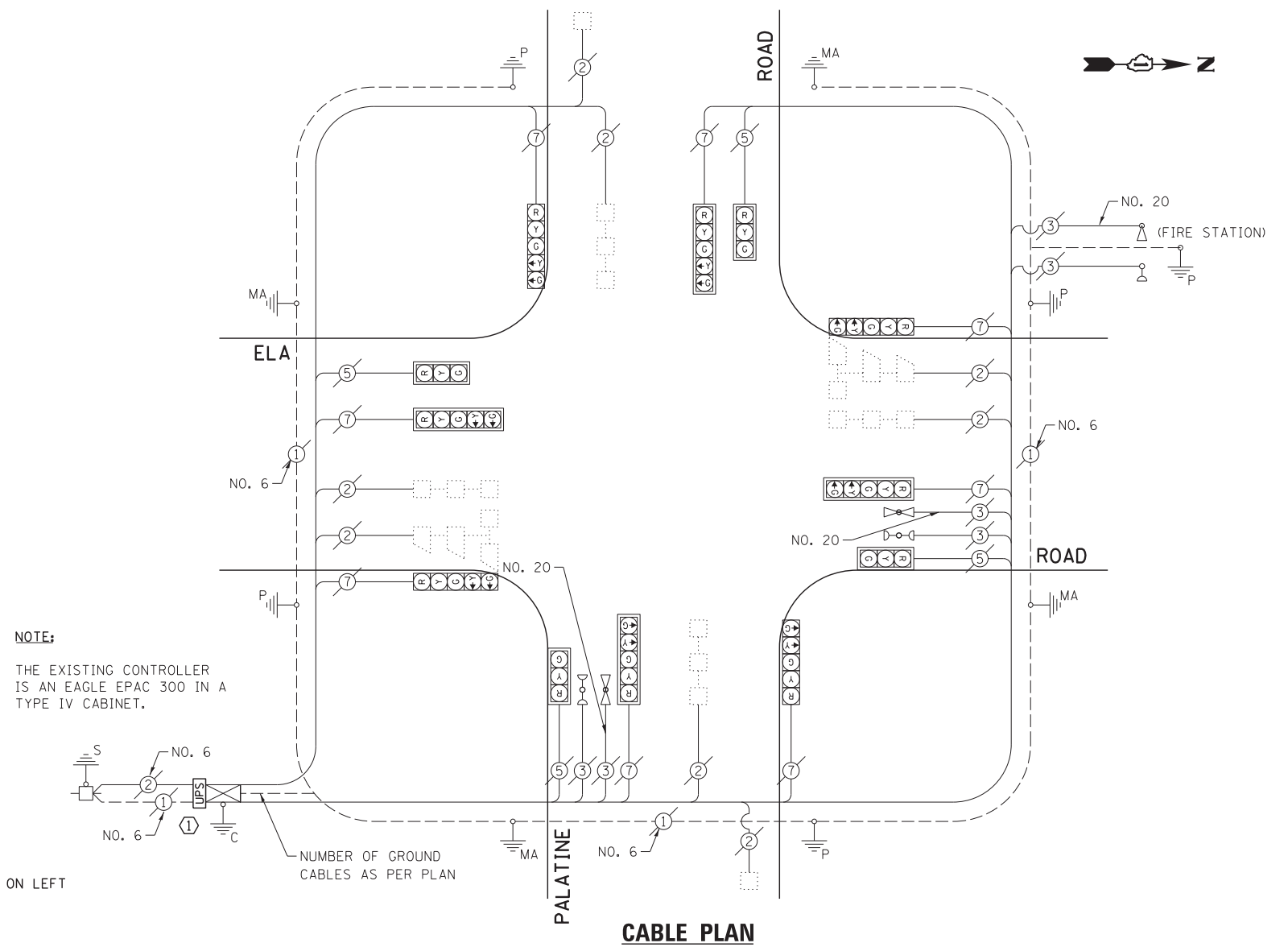
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

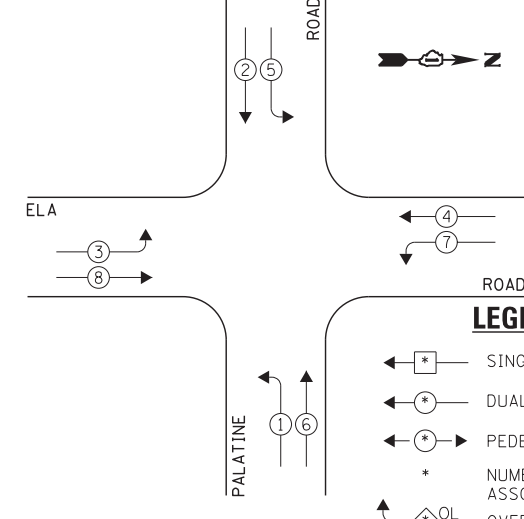
EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

SCHEDULE OF QUANTITIES
PALATINE ROAD AT ELA ROAD

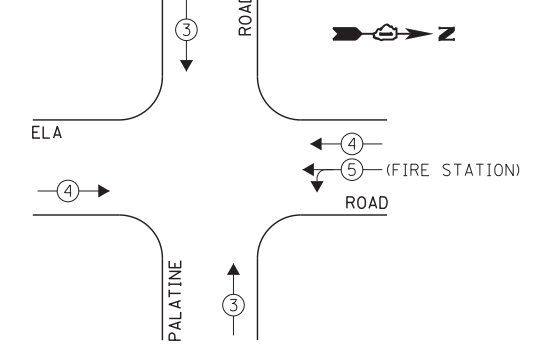
NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					366.2

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-025.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

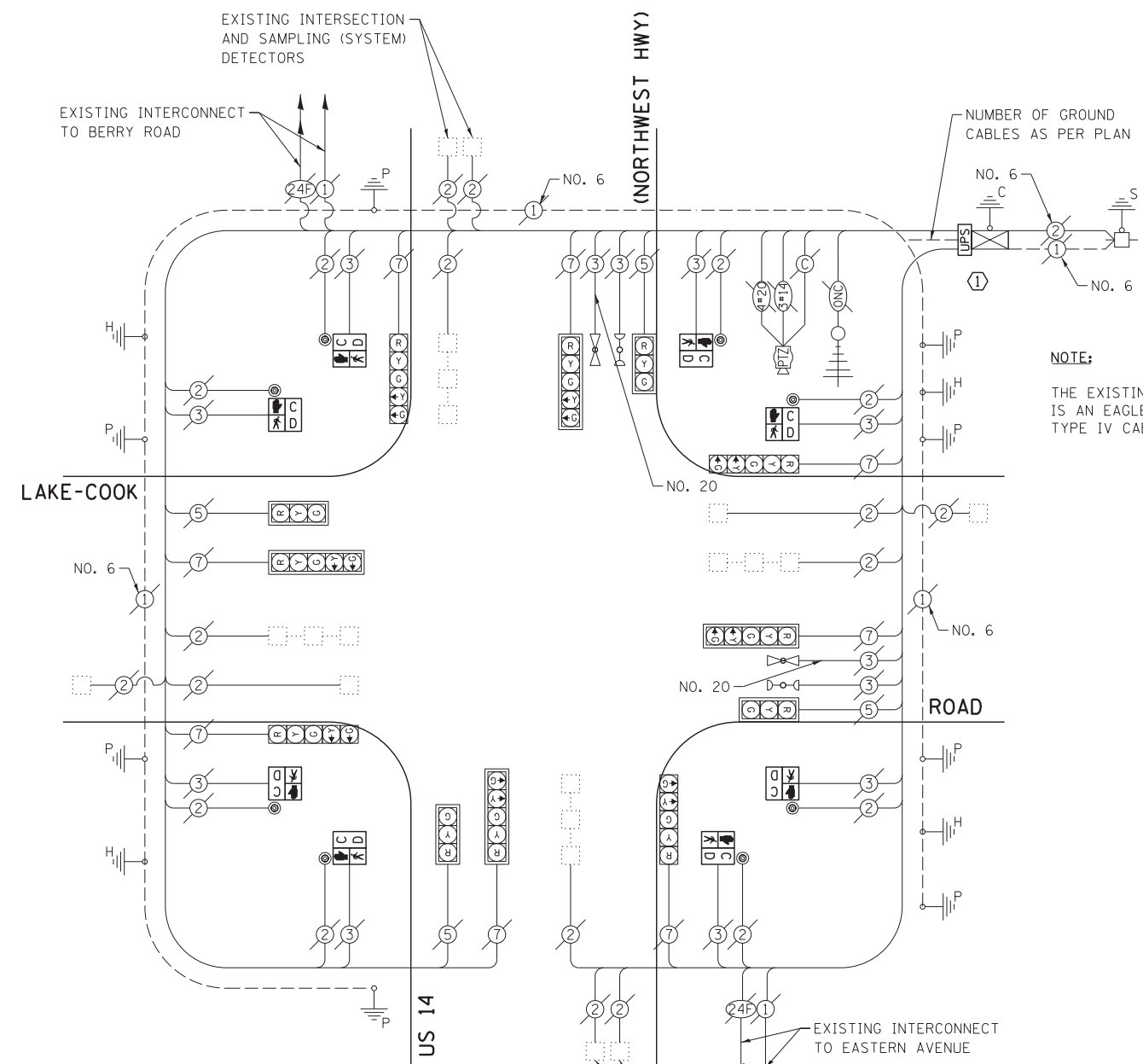
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
PALATINE ROAD AT ELA ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	25
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
U. S. 14 (NORTHWEST HWY) AT LAKE-COOK ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	8	EACH	PEDESTRIAN PUSH-BUTTON
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



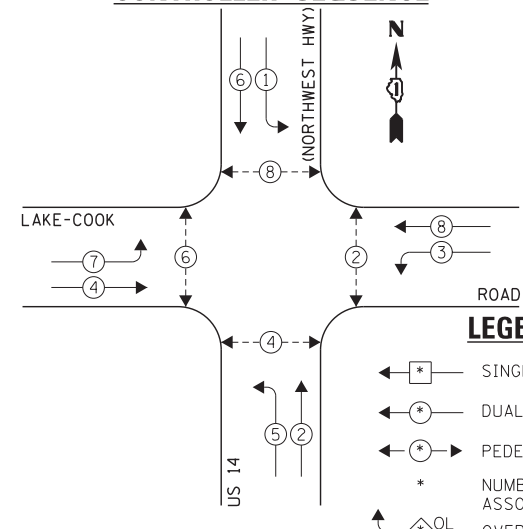
NOTE:
THE EXISTING CONTROLLER IS AN EAGLE EPAC 300 IN A TYPE IV CABINET.

CONSTRUCTION NOTE:
① INSTALL UNINTERRUPTABLE POWER SUPPLY (UPS) ON LEFT SIDE OF THE EXISTING CONTROLLER CABINET.

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

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

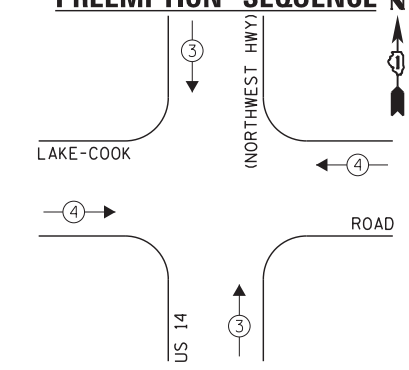
EXISTING CONTROLLER SEQUENCE



CABLE PLAN

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					566.2

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

EXISTING PHASE DESIGNATION DIAGRAM

- LEGEND:**
- ← * → SINGLE ENTRY PHASE
 - ← * → DUAL ENTRY PHASE
 - ← * → PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE
 - ← * → OVERLAP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
US 14 (NORTHWEST HWY) AT LAKE-COOK ROAD

FILE NAME = D160W38-026.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

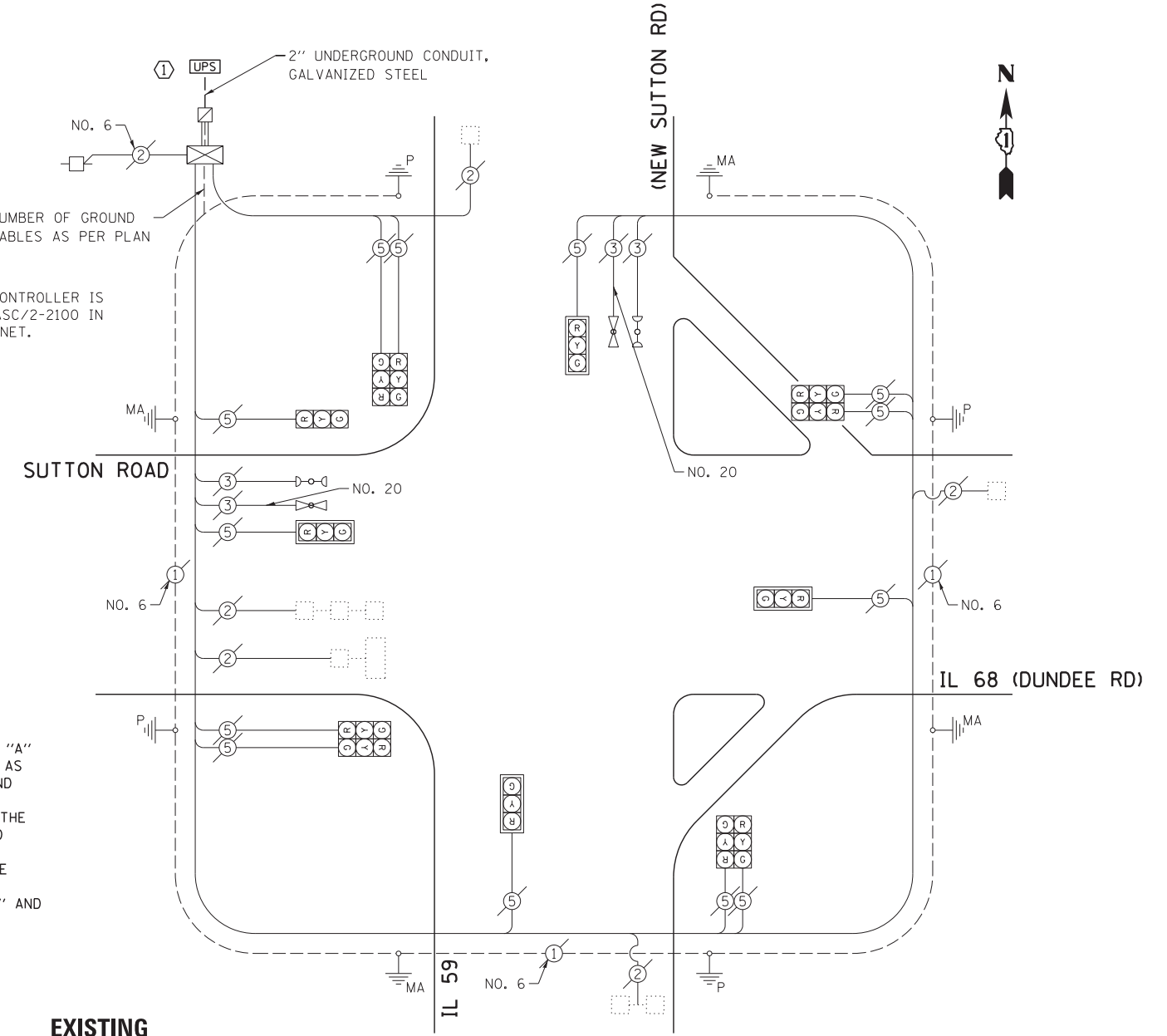
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	26
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 59 (NEW SUTTON RD) AT IL 68 (DUNDEE RD)

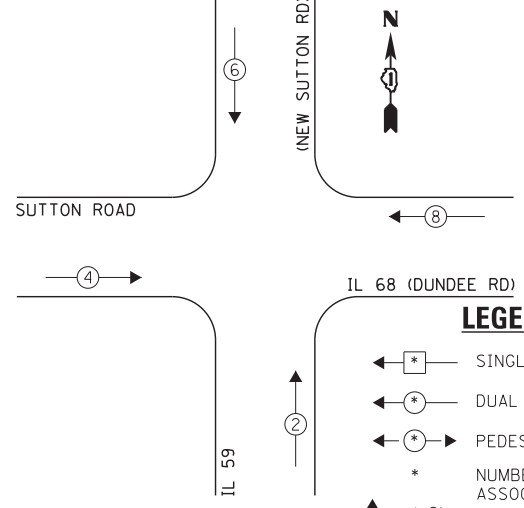
NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2100 IN A TYPE IV CABINET.

CONSTRUCTION NOTE:
① THE UPS SHALL BE INSTALLED ON A SEPARATE TYPE "A" FOUNDATION DUE TO THE PHYSICAL CONSTRAINTS OR AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK AND ALL CONDUIT AND ELECTRICAL CABLE NEEDED TO PROPERLY INSTALL THE UPS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED". ALL RESTORATION SPECIFIED IN THE RESTORATION OF WORK AREA GENERAL NOTE SHALL BE CONSIDERED INCLUDED IN THE PAY ITEM "UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED" AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

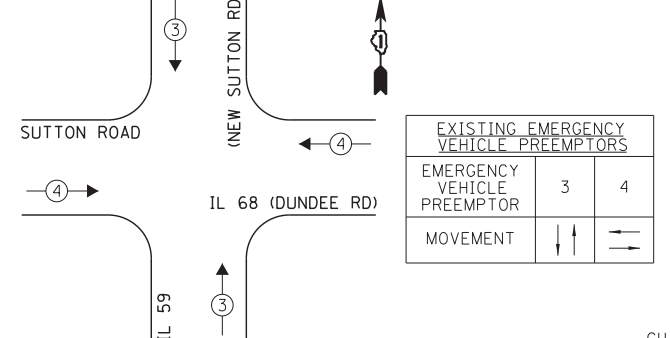


EXISTING CONTROLLER SEQUENCE



CABLE PLAN

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:
 ◀ * → SINGLE ENTRY PHASE
 ◀ * DUAL ENTRY PHASE
 ◀ * → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE
 * OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↑	→

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	81.25
SIGNAL (GREEN)	13	135	15	0.25	48.75
ARROW	-	135	12	0.10	-
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					365.5

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-027.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISIONS -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISIONS -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISIONS -
		DATE - 05/10/13	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

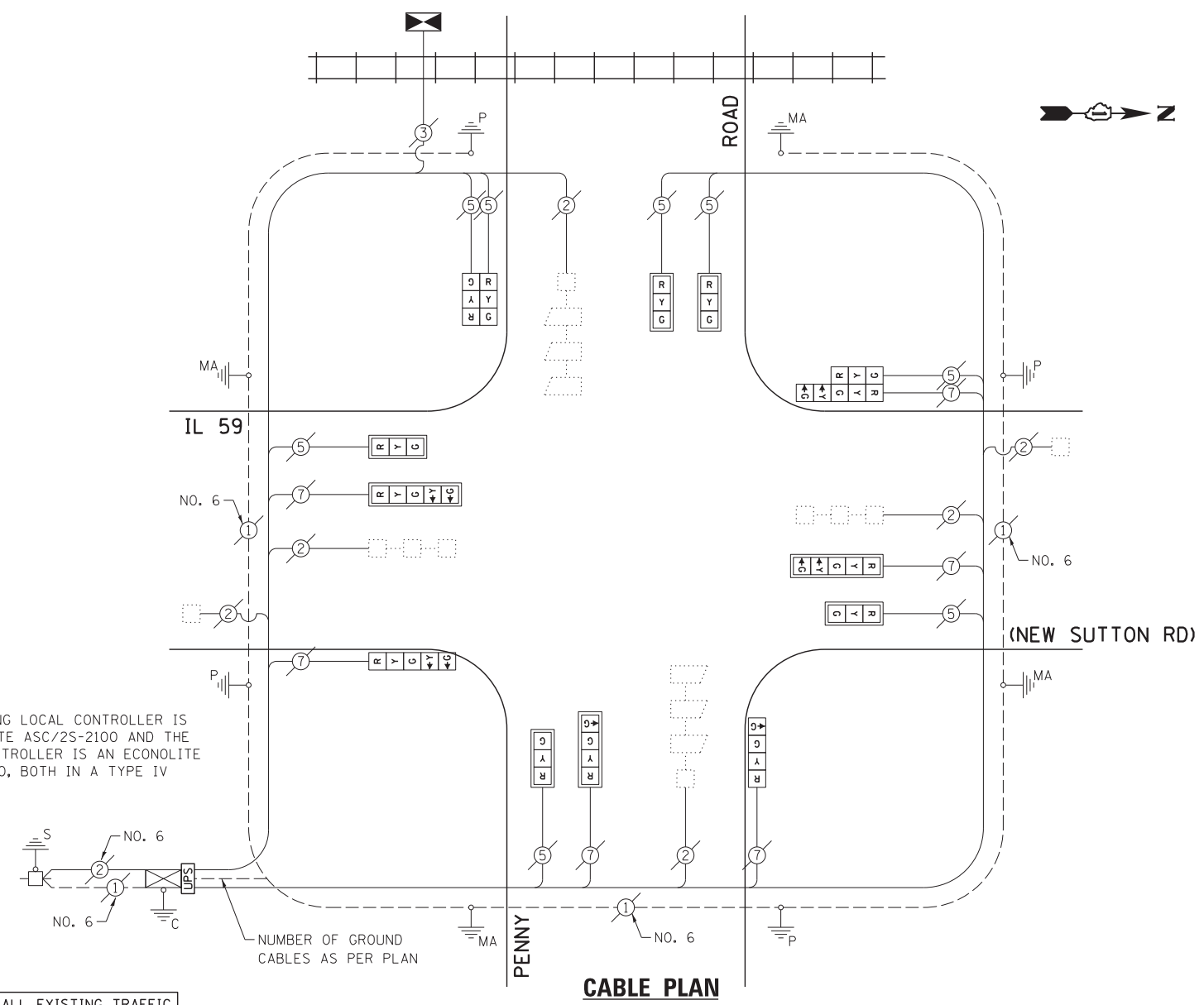
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 59 (NEW SUTTON RD) AT IL 68 (DUNDEE RD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	27
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 59 (NEW SUTTON RD) AT PENNY ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
5.	5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
6.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
8.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT
9.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED, RETROFIT
10.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT



NOTE:
THE EXISTING LOCAL CONTROLLER IS AN ECONOLITE ASC/2S-2100 AND THE MASTER CONTROLLER IS AN ECONOLITE ASC/2M-1000, BOTH IN A TYPE IV CABINET.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	87.5
SIGNAL (GREEN)	14	135	15	0.25	52.5
ARROW	10	135	12	0.10	12.0
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					396.0

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D160W38-028.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/7/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

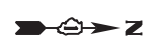
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
& CABLE PLAN
IL 59 (NEW SUTTON RD) AT PENNY ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	28
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SEQUENCE OF OPERATION

MOVEMENT 	5 → 1		← 6		5 → 2		← 6		4 ↑ 8		F L A S H			
	1 + 5				1 + 6		2 + 5		2 + 6			4 + 8		
	1	2	3	4	5	6	7	8	9	10A		10B	11	12A
CHANGE TO PHASE	1+6 2+5 2+6				2+6		2+6		4+8		1+5 1+6 2+5 2+6			
IL 59 - NB FAR LEFT & END MAST ARM SIGNALS	←G	←Y	←G	←Y	R	R	←G	←Y	G	Y	R	R	R	R
IL 59 - NB FAR RIGHT SIGNAL	R	R	R	R	R	R	G	G	G	Y	R	R	R	R
IL 59 - SB FAR LEFT & END MAST ARM SIGNALS	←G	←Y	←G	←Y	←G	←Y	R	R	G	Y	R	R	R	R
IL 59 - SB NEAR RIGHT & FAR RIGHT MAST ARM SIGNALS	R	R	R	R	G	G	R	R	G	Y	R	R	R	R
PENNY ROAD - EB FAR LEFT & END MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	Y	R
PENNY ROAD - EB NEAR & FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	Y	R
PENNY ROAD - WB ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	Y	R

PHASE 2+6 SHALL BE PLACED ON RECALL.

RAILROAD PRE-EMPTION SEQUENCE

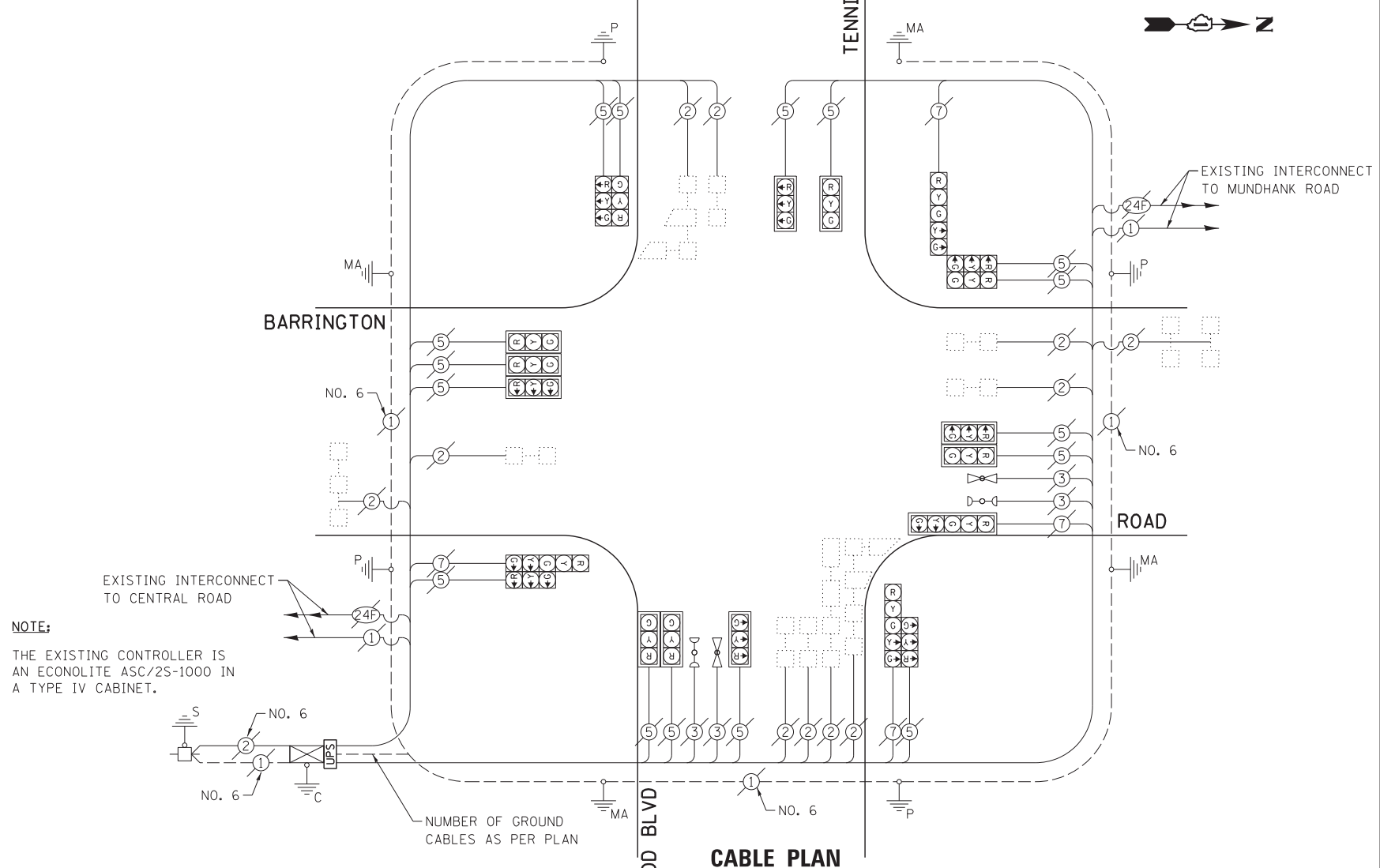
CHANGE FROM NORMAL SEQUENCE OF OPERATIONS INTERVAL NUMBER	1	5	7	9	11	PREEMPTOR NUMBER 2										CLEAR TO NORMAL SEQUENCE
	1A	1B	1C	1D	1E	1F	1G	1H	1J	2	3	4	5			
RAILROAD PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	1J	2	3	4	5				
CHANGE TO RAILROAD PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	1E	2	1G	2	1J	2	3	4	5				
IL 59 - NB FAR LEFT & END MAST ARM SIGNALS	←Y	R	R	Y	R	Y	R	R	R	R	R	R	G	◇		
IL 59 - NB FAR RIGHT SIGNAL	R	R	R	Y	R	Y	R	R	R	R	R	R	G	◇		
IL 59 - SB FAR LEFT & END MAST ARM SIGNALS	←Y	Y	R	R	R	Y	R	R	R	R	R	R	G	◇		
IL 59 - SB NEAR RIGHT & FAR RIGHT MAST ARM SIGNALS	R	Y	R	R	R	Y	R	R	R	R	R	R	G	◇		
PENNY ROAD - EB FAR LEFT & END MAST ARM SIGNALS	R	R	R	R	R	R	R	G	G	←G	Y	R	R	◇		
PENNY ROAD - EB NEAR & FAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	G	G	Y	R	R	◇		
PENNY ROAD - WB ALL SIGNALS	R	R	R	R	R	R	R	Y	R	R	R	R	R	◇		

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

FOR INFORMATION ONLY

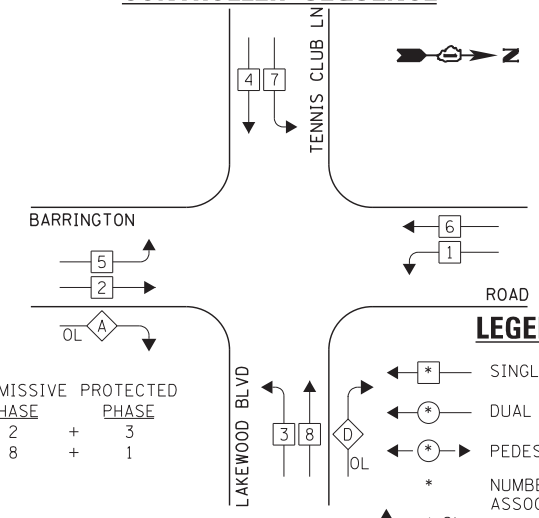
SCHEDULE OF QUANTITIES
BARRINGTON ROAD AT LAKEWOOD BOULEVARD / TENNIS CLUB LANE

NO.	QUANT.	UNIT
1.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

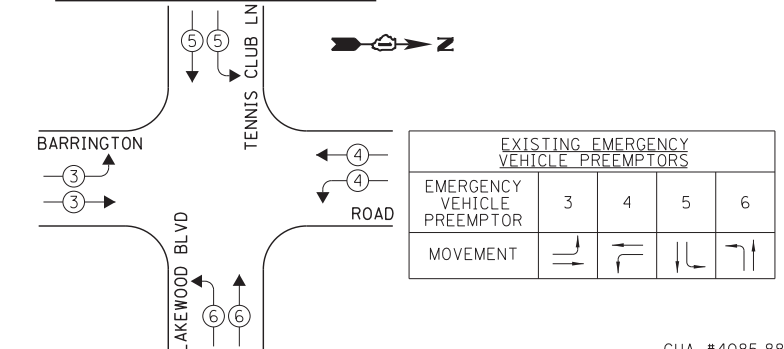


NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
D	= 8	+ 1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =				504.6	

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-031.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

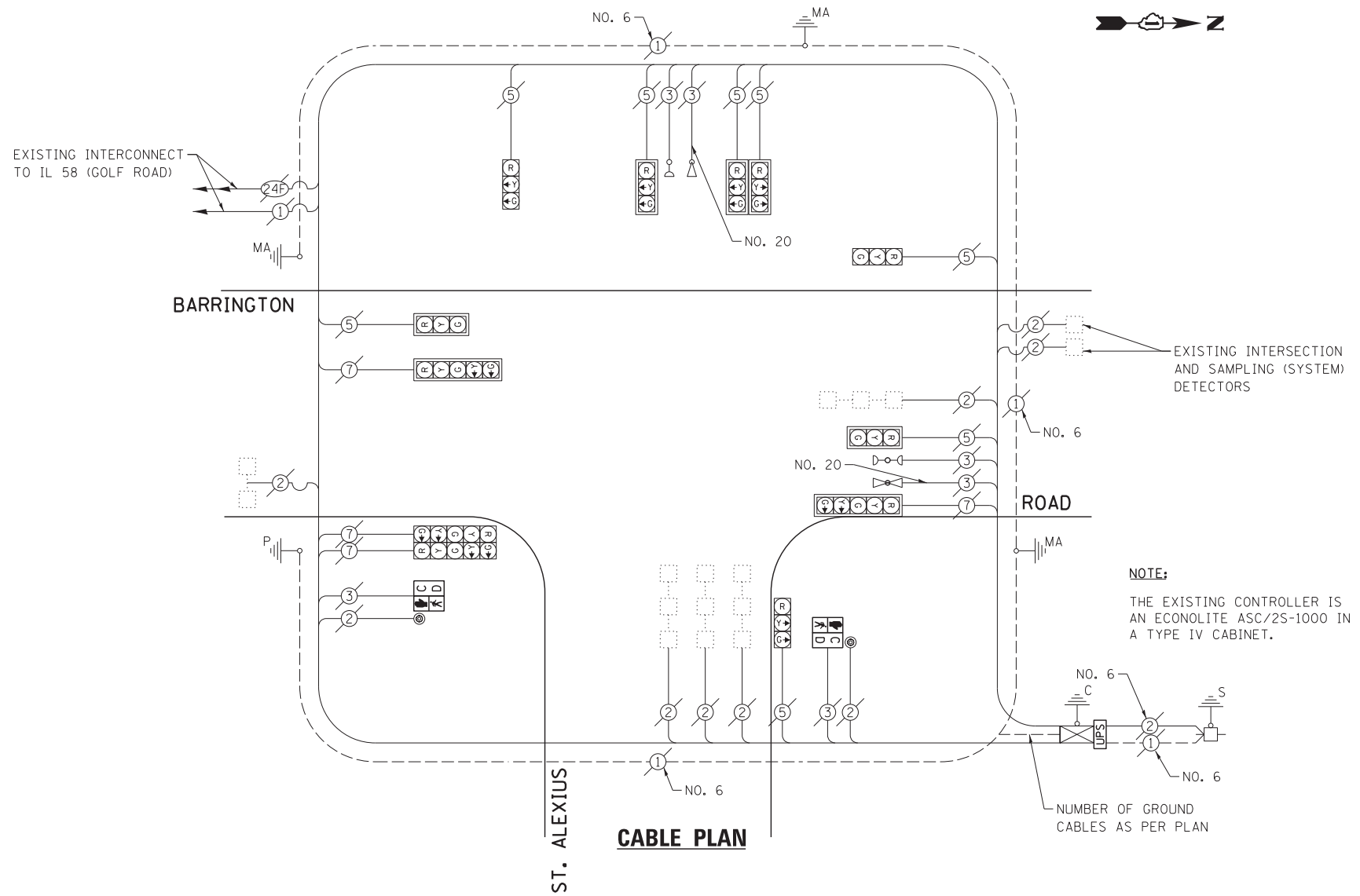
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
BARRINGTON ROAD AT LAKEWOOD BOULEVARD / TENNIS CLUB LANE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	30
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
BARRINGTON ROAD AT ST. ALEXIUS MEDICAL CENTER ENTRANCE

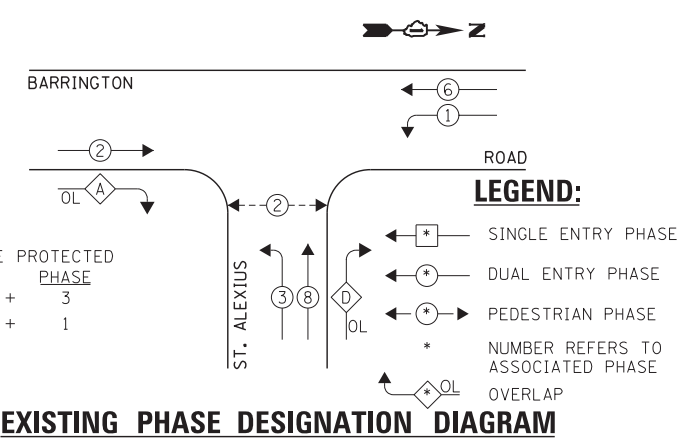
NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	2	EACH	PEDESTRIAN PUSH-BUTTON
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



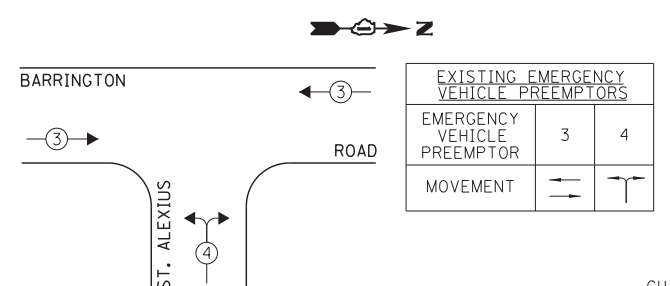
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					406.6

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D160W38-032.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

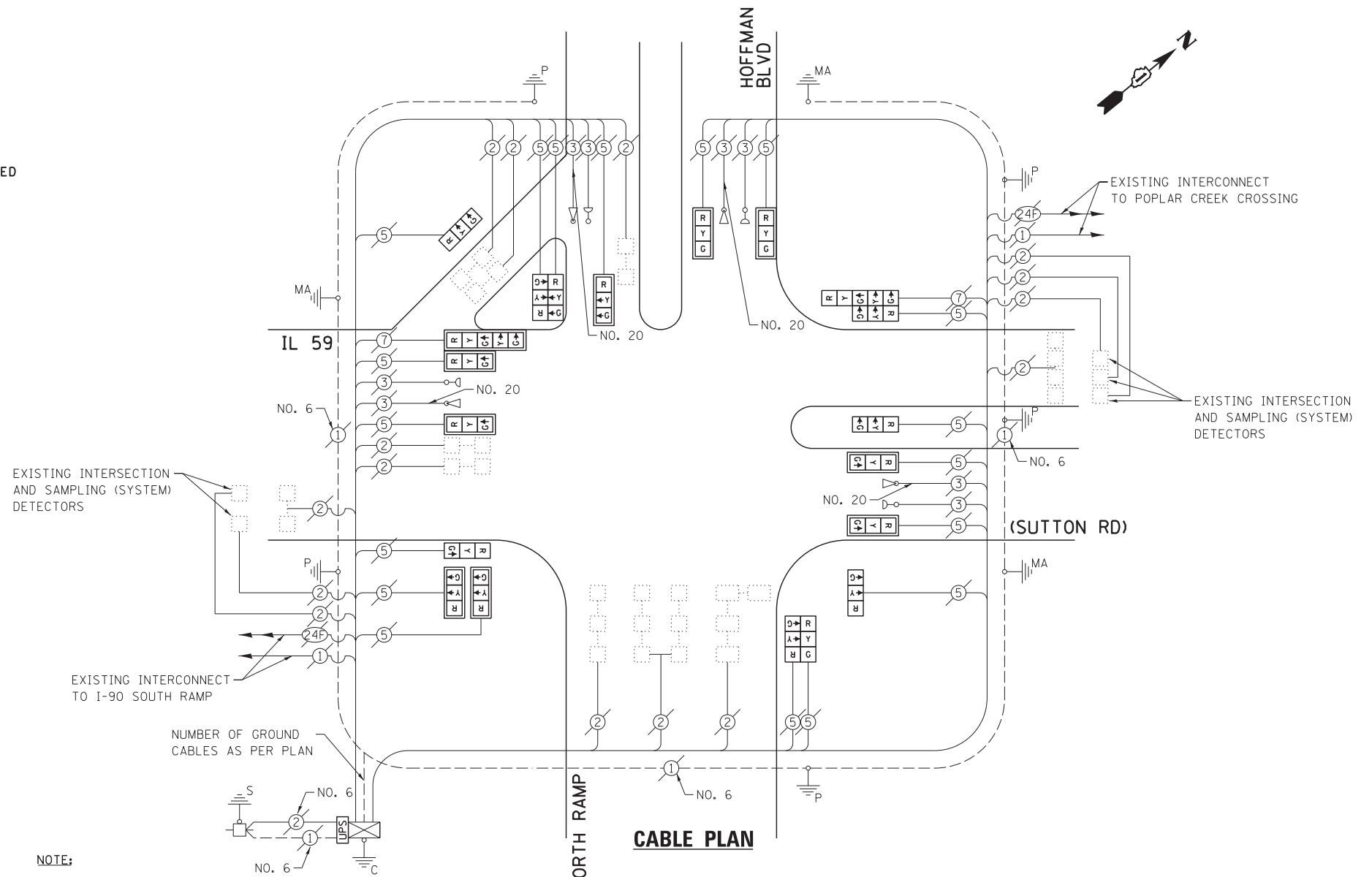
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
BARRINGTON ROAD AT ST. ALEXIUS MEDICAL CENTER ENTRANCE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	31
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 59 (SUTTON RD) AT I-90 NORTH RAMP / HOFFMAN BOULEVARD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	9	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
5.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
6.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
7.	10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
9.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
10.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



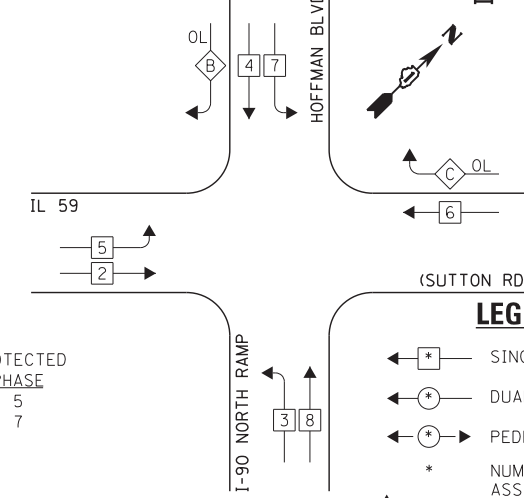
NOTE:

THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

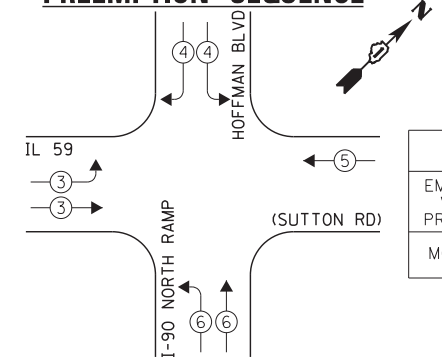
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
 - ← * DUAL ENTRY PHASE
 - ← * → PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE
 - OL OVERLAP
- OVERLAP PERMISSIVE PROTECTED
LETTER PHASE PHASE
B = 4 + 5
C = 6 + 7

EXISTING PHASE DESIGNATION DIAGRAM

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

TYPE	NO. LAMPS	WATTAGE		OPERATION	TOTAL WATTAGE
		INCAND.	L.E.D.		
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					499.8

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-033.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 59 (SUTTON RD) AT I-90 NORTH RAMP / HOFFMAN BOULEVARD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	32
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

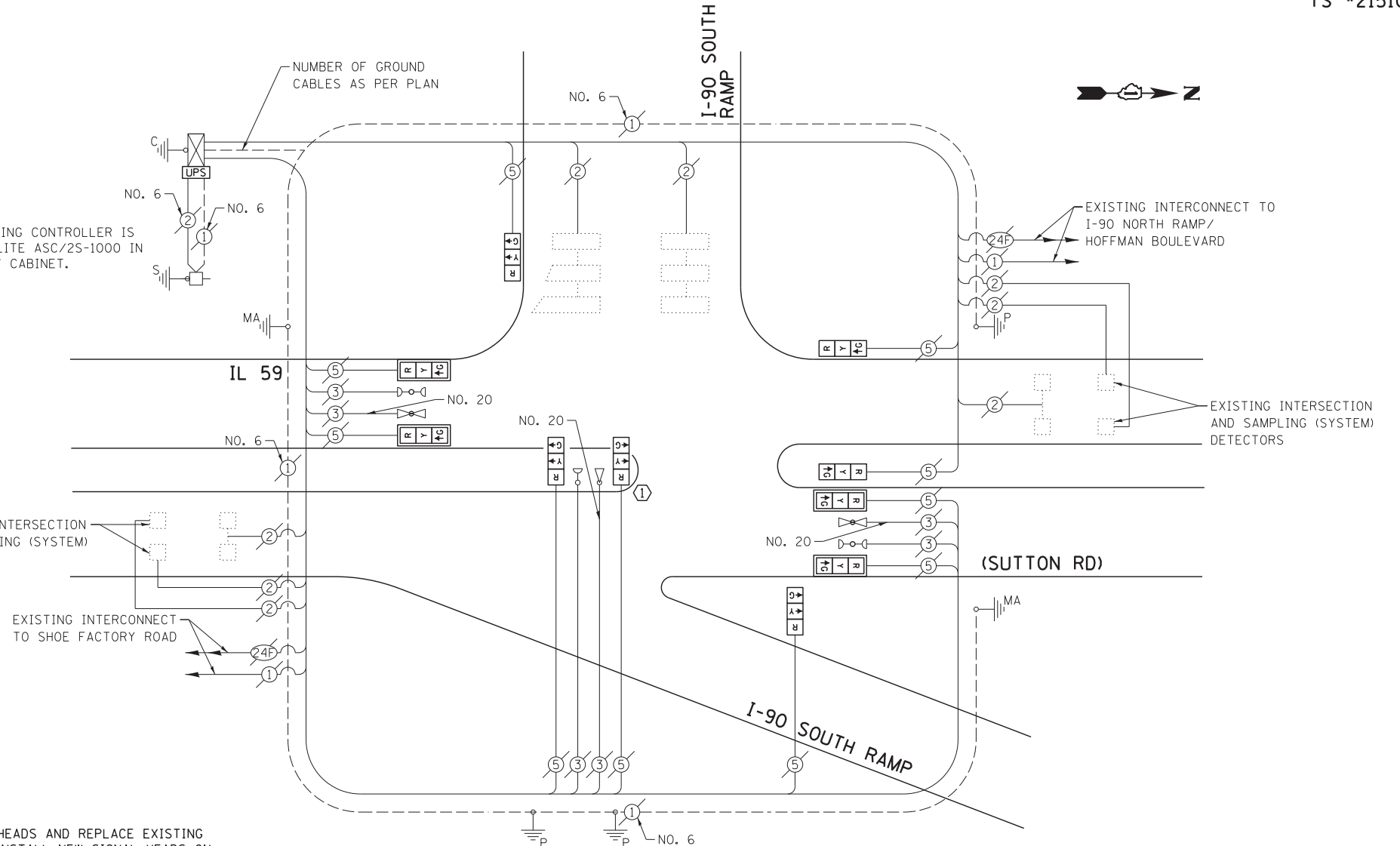
SCHEDULE OF QUANTITIES
IL 59 (SUTTON RD) AT I-90 SOUTH RAMP

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
3.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4.	6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
5.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
6.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
7.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
8.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

EXISTING INTERCONNECT TO SHOE FACTORY ROAD



CABLE PLAN

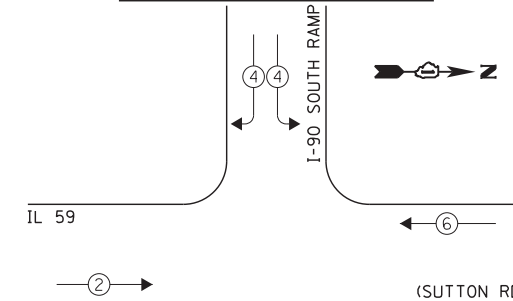
CONSTRUCTION NOTE:

- ① REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 18 FOOT PAINTED POST. INSTALL NEW SIGNAL HEADS ON NEW 18 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES.

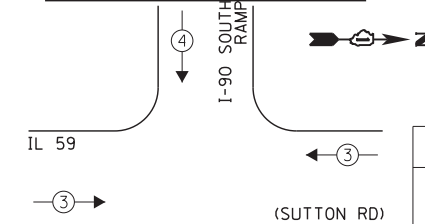
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ◀ * → SINGLE ENTRY PHASE
- ◀ * → DUAL ENTRY PHASE
- ◀ * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ◀ * OL → OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	↔ ↓

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. L.E.D.	OPERATION	
SIGNAL (RED)	10	135 17	0.50	85.0
SIGNAL (YELLOW)	10	135 25	0.25	62.5
SIGNAL (GREEN)	10	135 15	0.25	37.5
ARROW	-	135 12	0.10	-
PED. SIGNAL	-	90 25	1.00	-
CONTROLLER	1	- 100	1.00	100.0
LUMINAIRE	-	- 250	0.50	-
L.E.D. ST. NAME SIGN	-	- 64	0.50	-
VIDEO SYSTEM	-	- 150	1.00	-
BATTERY BACKUP	1	- 25	1.00	25.0
ILLUMINATED SIGN	-	- 25	0.05	-
TOTAL =				310.0

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D160W38-034.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 59 (SUTTON RD) AT I-90 SOUTH RAMP

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	33
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

IL 19 (IRVING PARK RD) AT ELGIN-O'HARE NORTH FRONTAGE ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	TRANSCEIVER - FIBER OPTIC
3.	6	EACH	INDUCTIVE LOOP DETECTOR
4.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
5.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
6.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
8.	6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
9.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

NOTE:

THE EXISTING CONTROLLER IS AN ECONOLITE ASC-8000 IN A TYPE IV CABINET.

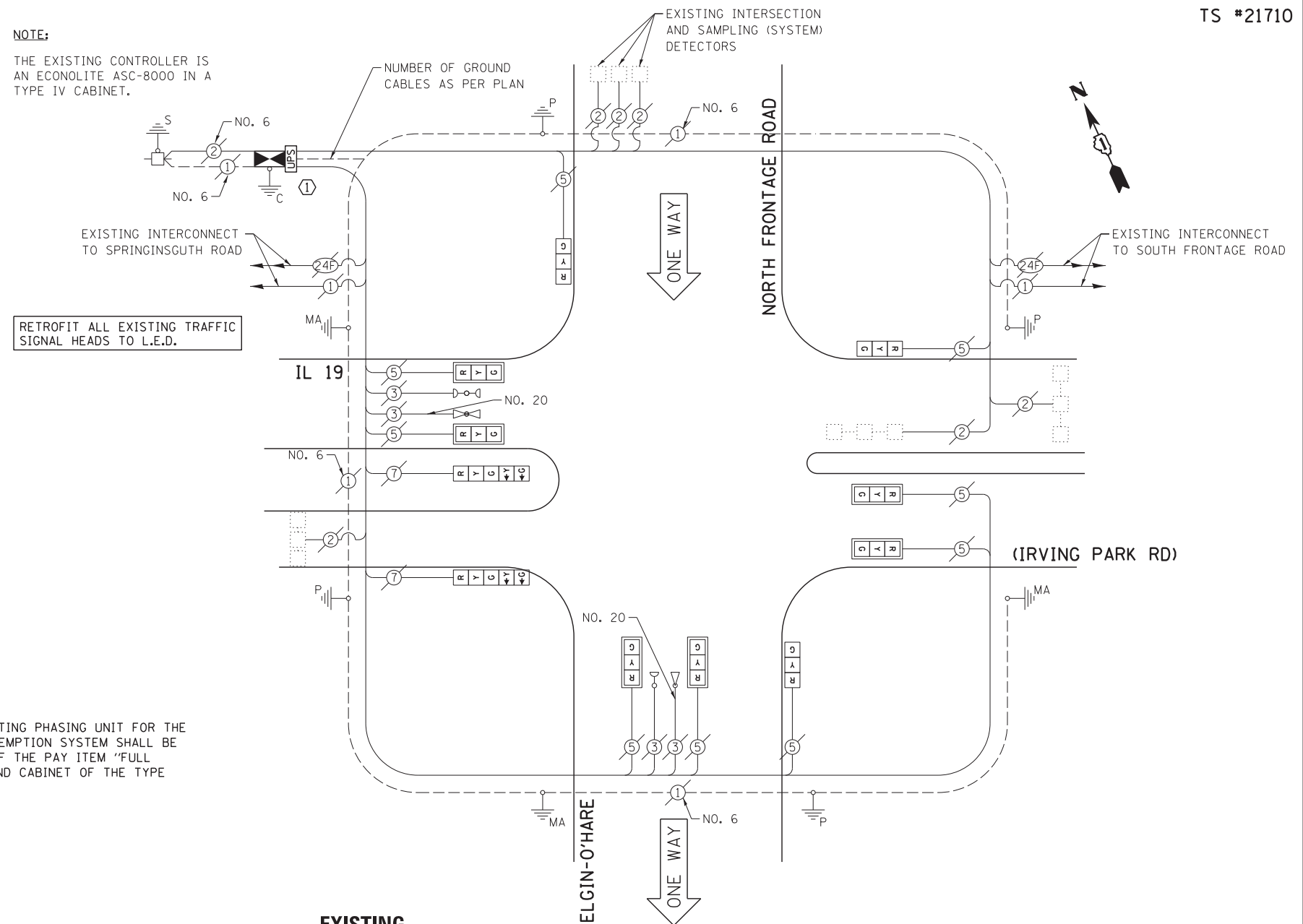
RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS TO L.E.D.

CONSTRUCTION NOTE:

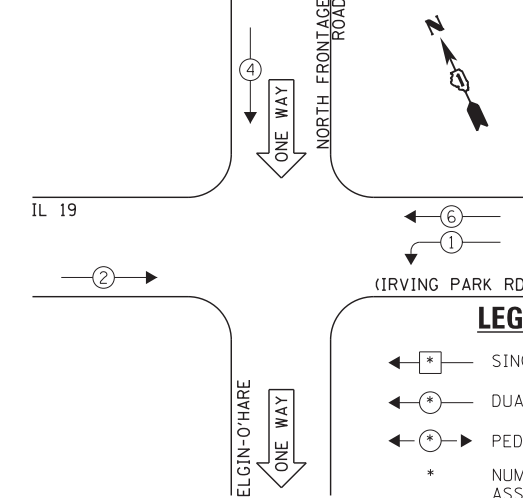
- ① RELOCATION OF THE EXISTING PHASING UNIT FOR THE EMERGENCY VEHICLE PRE-EMPTION SYSTEM SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "FULL ACTUATED CONTROLLER AND CABINET OF THE TYPE SPECIFIED".

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

- 1 EACH CONTROLLER AND CABINET (COMPLETE)

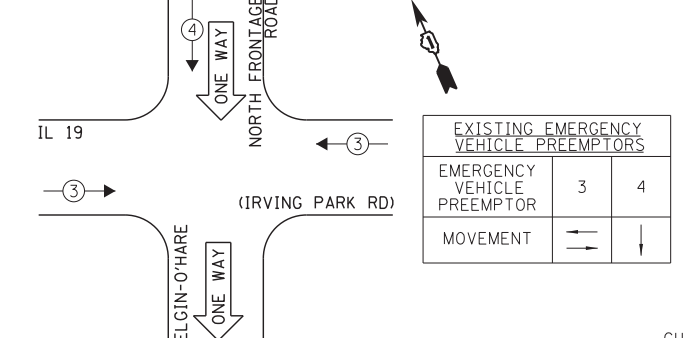


EXISTING CONTROLLER SEQUENCE



CABLE PLAN

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	11	135	17	0.50	93.5
SIGNAL (YELLOW)	11	135	25	0.25	68.75
SIGNAL (GREEN)	11	135	15	0.25	41.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					333.3

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION (ADDRESS) 201 W. CENTER COURT (ADDRESS) SCHALMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT (PHONE) 630-437-2129 (COMPANY) COMED - OAKBROOK TERRACE

FILE NAME = D160W38-035.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

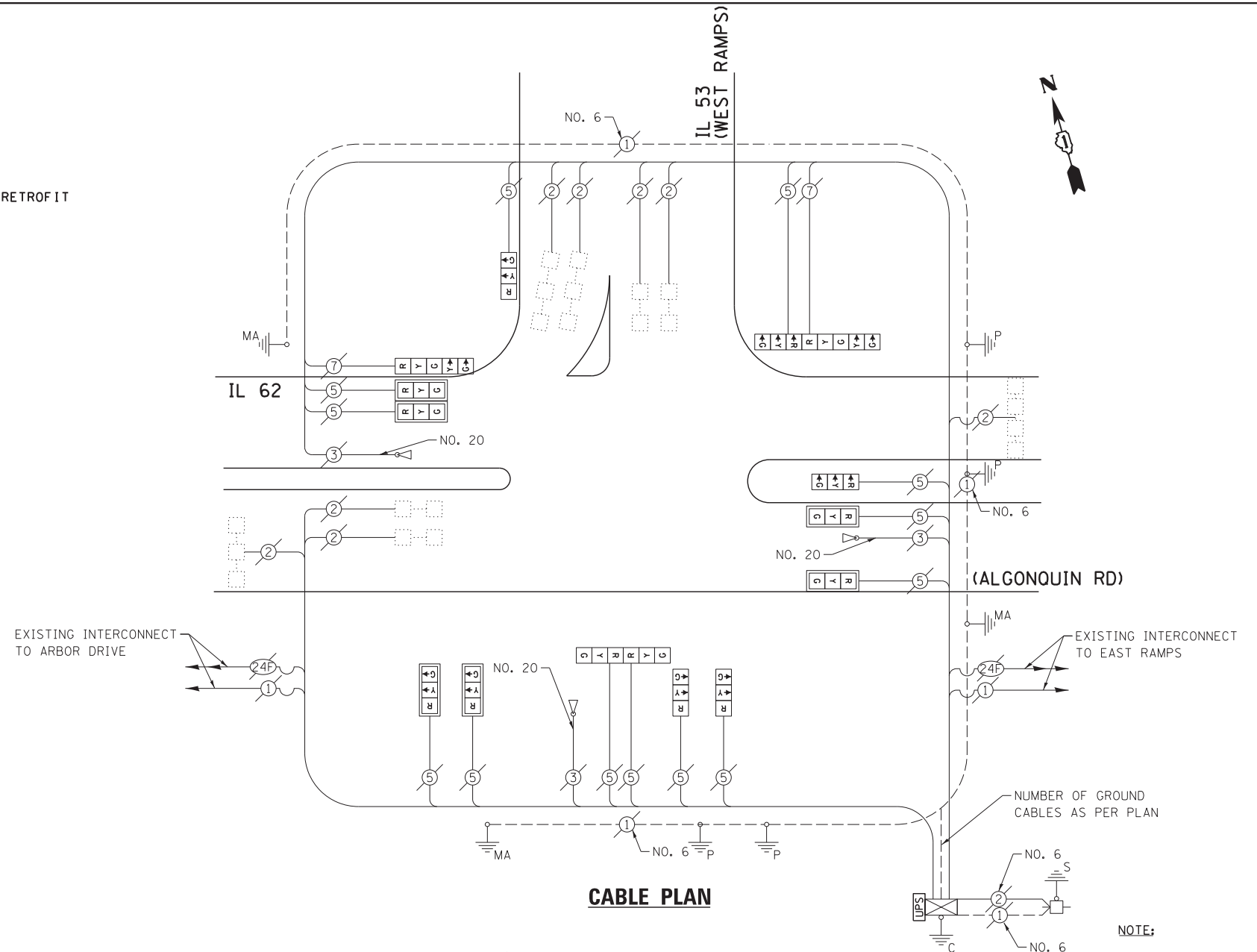
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL 19 (IRVING PARK RD) AT ELGIN-O'HARE NORTH FRONTAGE ROAD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	34
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

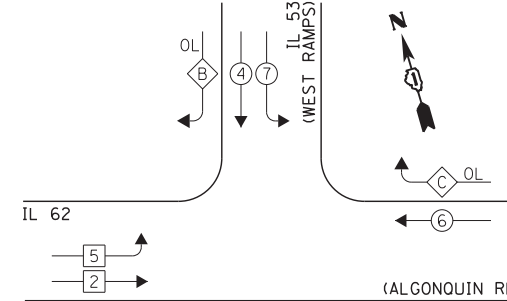
SCHEDULE OF QUANTITIES
IL 62 (ALGONQUIN RD) AT IL 53 (WEST RAMPS)

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
5.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
6.	6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
8.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT



CABLE PLAN

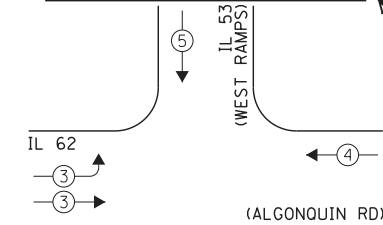
EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

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

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * OL → OVERLAP

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2100 IN A TYPE IV CABINET.

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	15	135	17	0.50	127.5
SIGNAL (YELLOW)	15	135	25	0.25	93.75
SIGNAL (GREEN)	15	135	15	0.25	56.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					407.3

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D160W38-036.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 62 (ALGONQUIN RD) AT IL 53 (WEST RAMPS)

SCALE: SHEET OF SHEETS STA. TO STA.

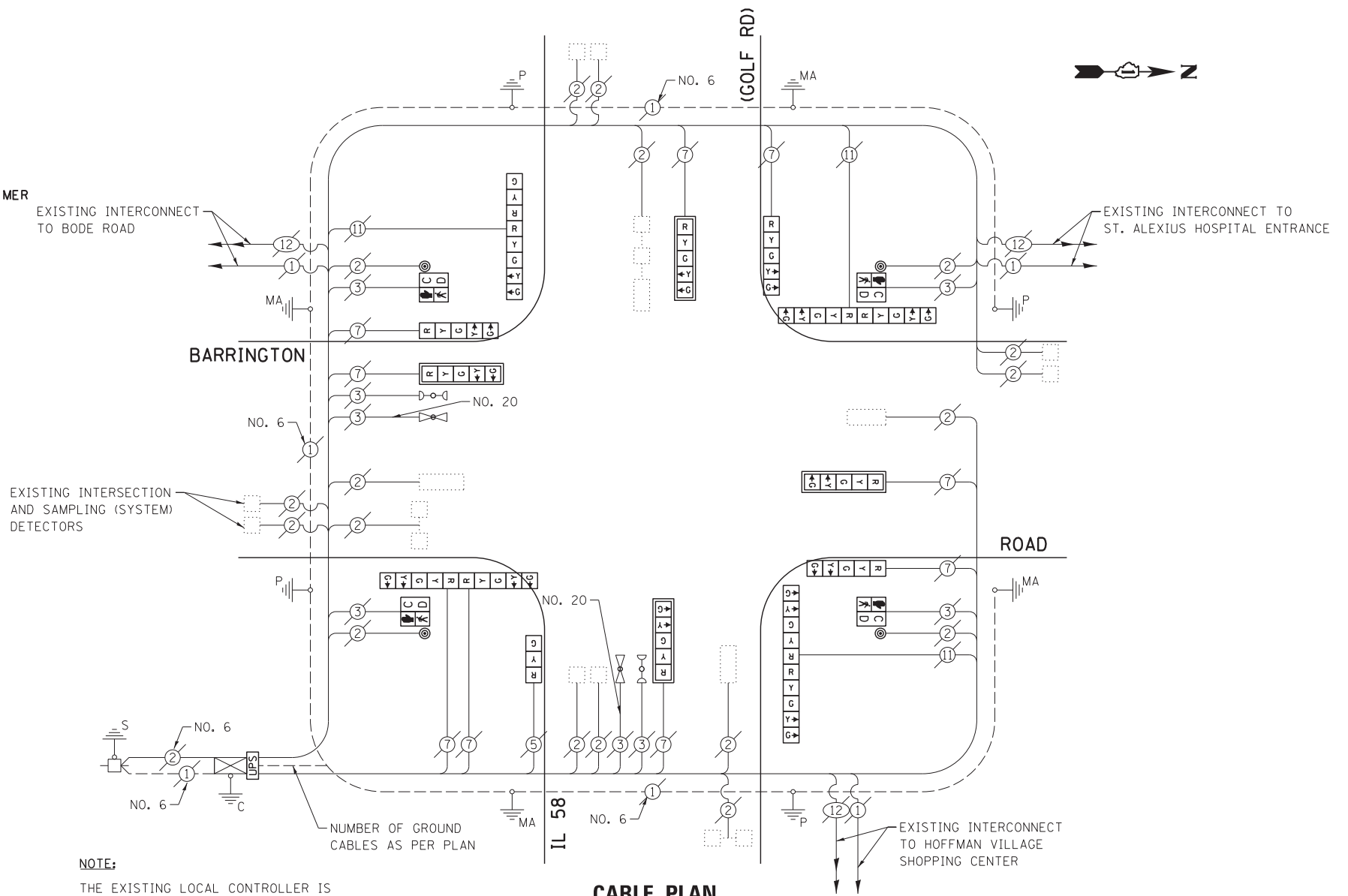
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	35
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 58 (GOLF RD) AT BARRINGTON ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
3.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
5.	3	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
6.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
7.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9.	4	EACH	PEDESTRIAN PUSH-BUTTON
10.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
11.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
12.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

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

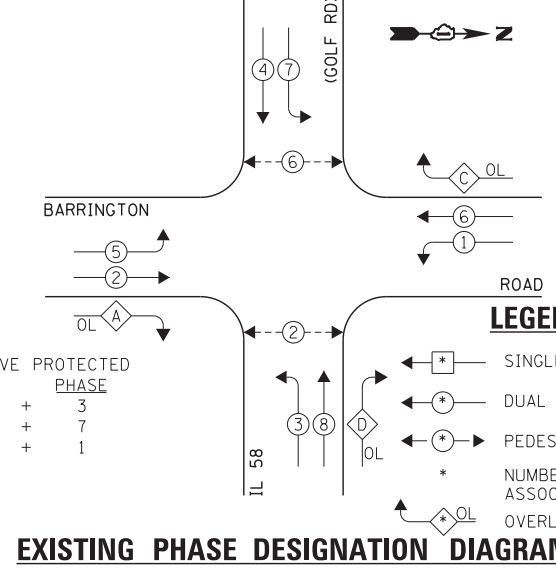
- 1 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION
- 7 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION
- 3 EACH TRAFFIC SIGNAL HEAD, 2-FACE, 5-SECTION
- 1 EACH TRAFFIC SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 4 EACH PEDESTRIAN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



NOTE:
THE EXISTING LOCAL CONTROLLER IS AN ECONOLITE ASC/2-2100 AND THE EXISTING MASTER CONTROLLER IS AN ECONOLITE ASC/2M-1000, BOTH IN A TYPE V CABINET.

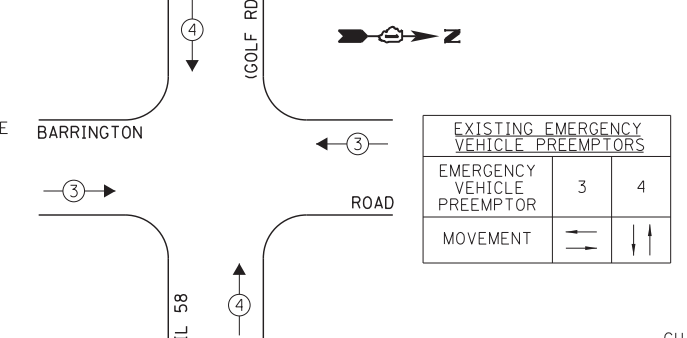
CABLE PLAN

EXISTING CONTROLLER SEQUENCE



OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
C	= 6	+ 7
D	= 8	+ 1

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.25	60.0
ARROW	28	135	12	0.10	33.6
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					554.6

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

FILE NAME = D160W38-037.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

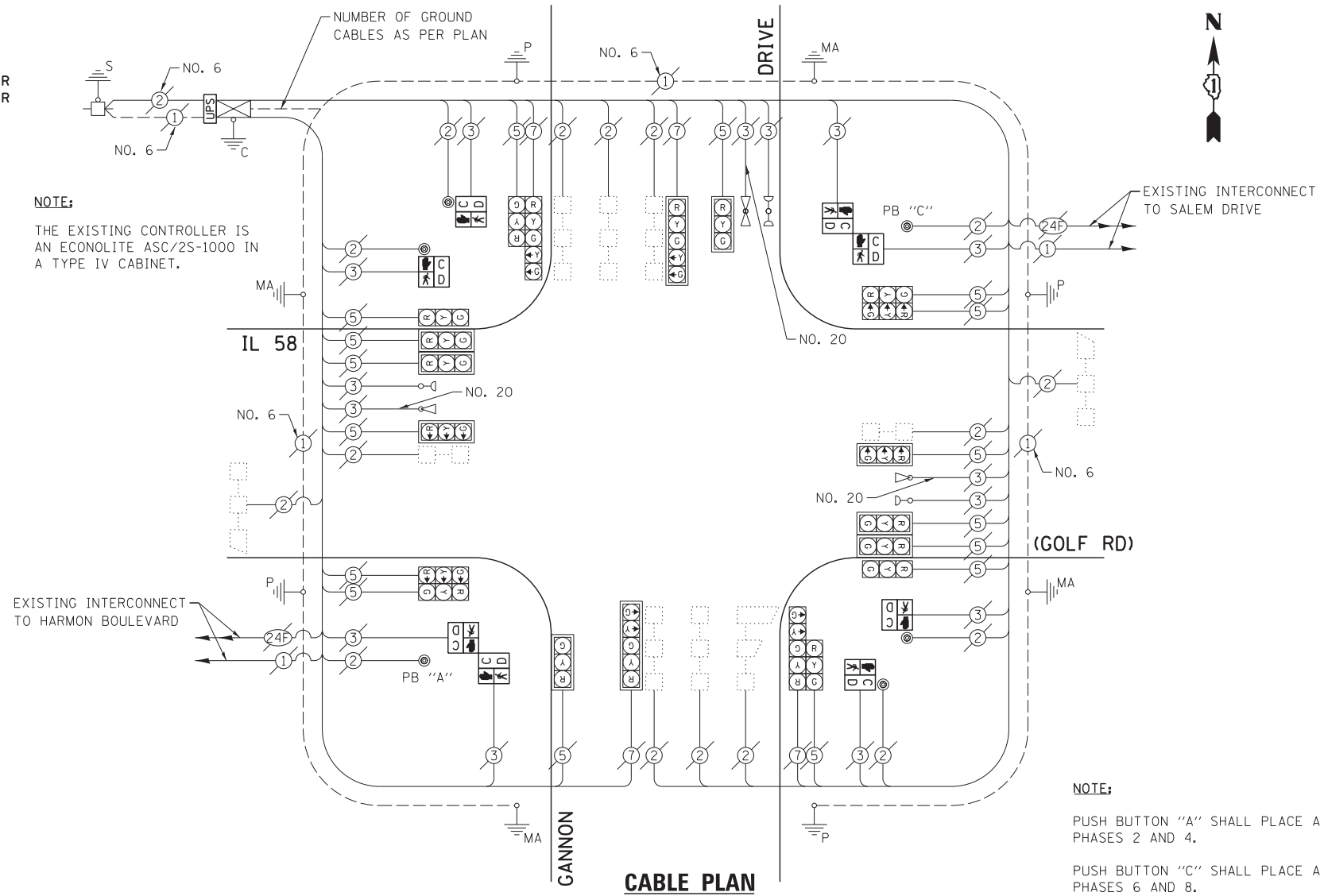
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 58 (GOLF RD) AT BARRINGTON ROAD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	36
CONTRACT NO. 60W38				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 58 (GOLF RD) AT GANNON DRIVE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
7.	6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

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

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

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					704.6

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

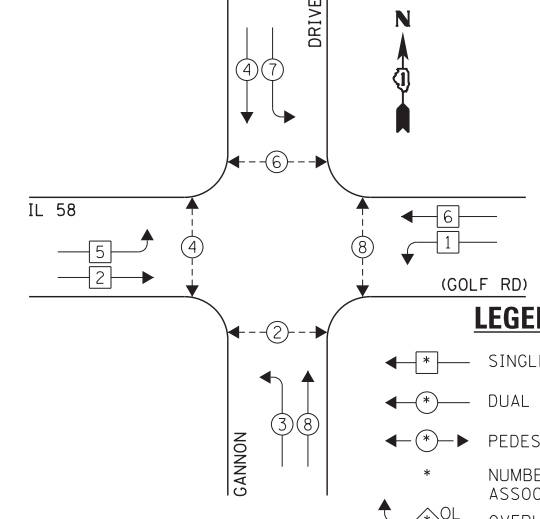
FILE NAME = D160W38-038.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 58 (GOLF RD) AT GANNON DRIVE

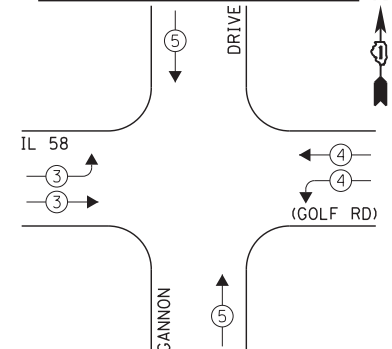
SCALE: SHEET OF SHEETS STA. TO STA.

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

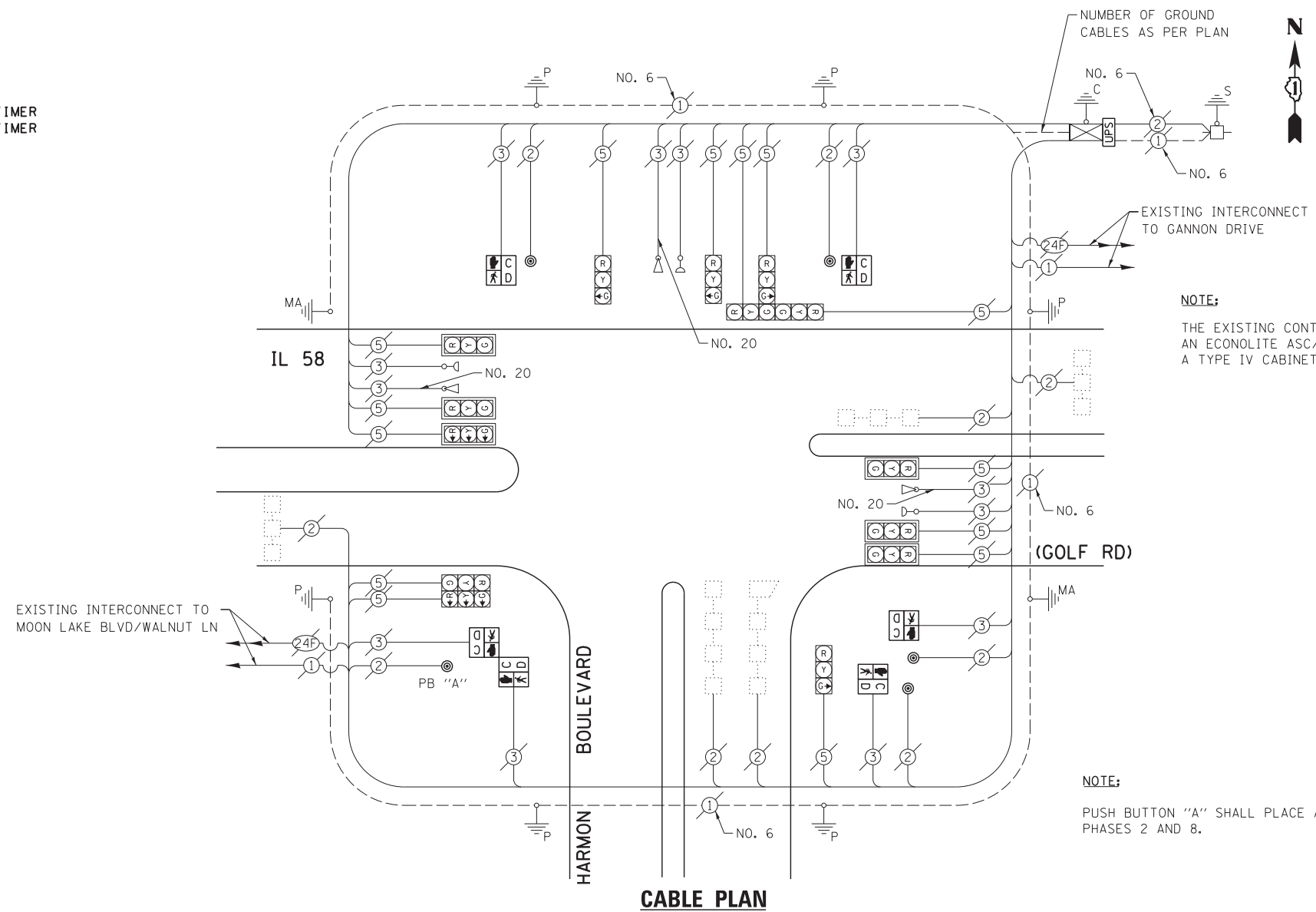


EXISTING EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↔	↔	↕

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	37
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 58 (GOLF RD) AT HARMON BOULEVARD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7.	5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



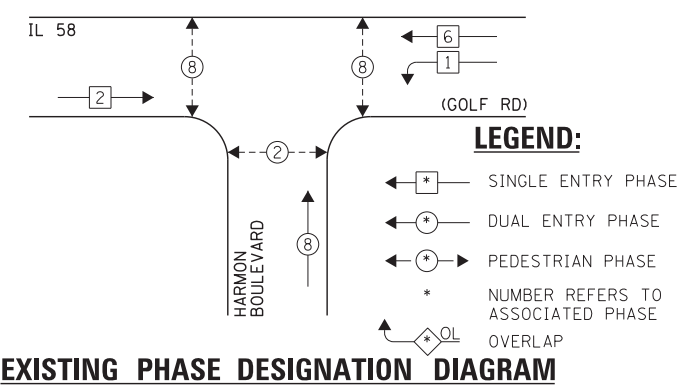
NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

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

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

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND. L.E.D.			
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	87.5
SIGNAL (GREEN)	14	135	15	0.25	52.5
ARROW	-	135	12	0.10	-
PED. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					534.0

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-039.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 58 (GOLF RD) AT HARMON BOULEVARD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	38
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

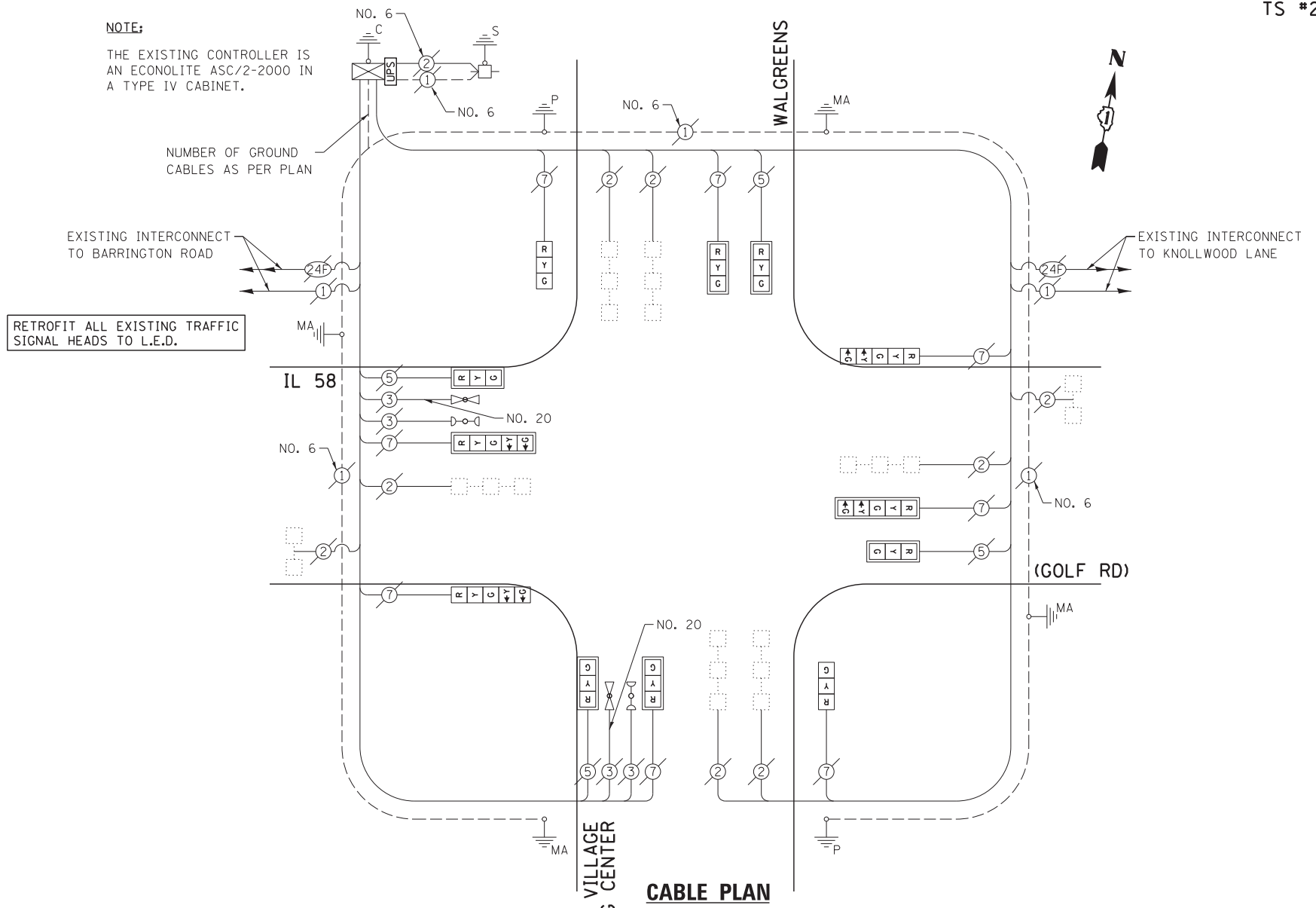
SCHEDULE OF QUANTITIES
IL 58 (GOLF RD) AT HOFFMAN VILLAGE ENTRANCE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
5.	6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
6.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
7.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

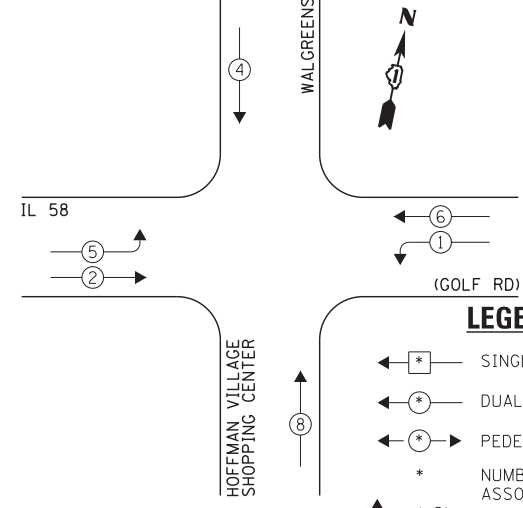
NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2000 IN A TYPE IV CABINET.

NUMBER OF GROUND CABLES AS PER PLAN

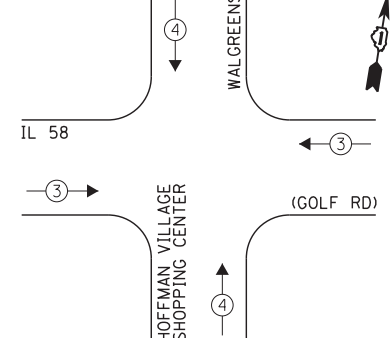
RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS TO L.E.D.



EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:
 ◀ * ▶ SINGLE ENTRY PHASE
 ◀ * DUAL ENTRY PHASE
 ◀ * ▶ PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE
 * OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					356.6

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHAMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

EXISTING PHASE DESIGNATION DIAGRAM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 58 (GOLF RD) AT HOFFMAN VILLAGE ENTRANCE

FILE NAME = D160W38-040.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:200	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	39
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 58 (GOLF RD) AT IL 59 (SUTTON RD)

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
3.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
5.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
6.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
7.	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8.	4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
10.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
12.	8	EACH	PEDESTRIAN PUSH BUTTON, NON-LATCHING

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

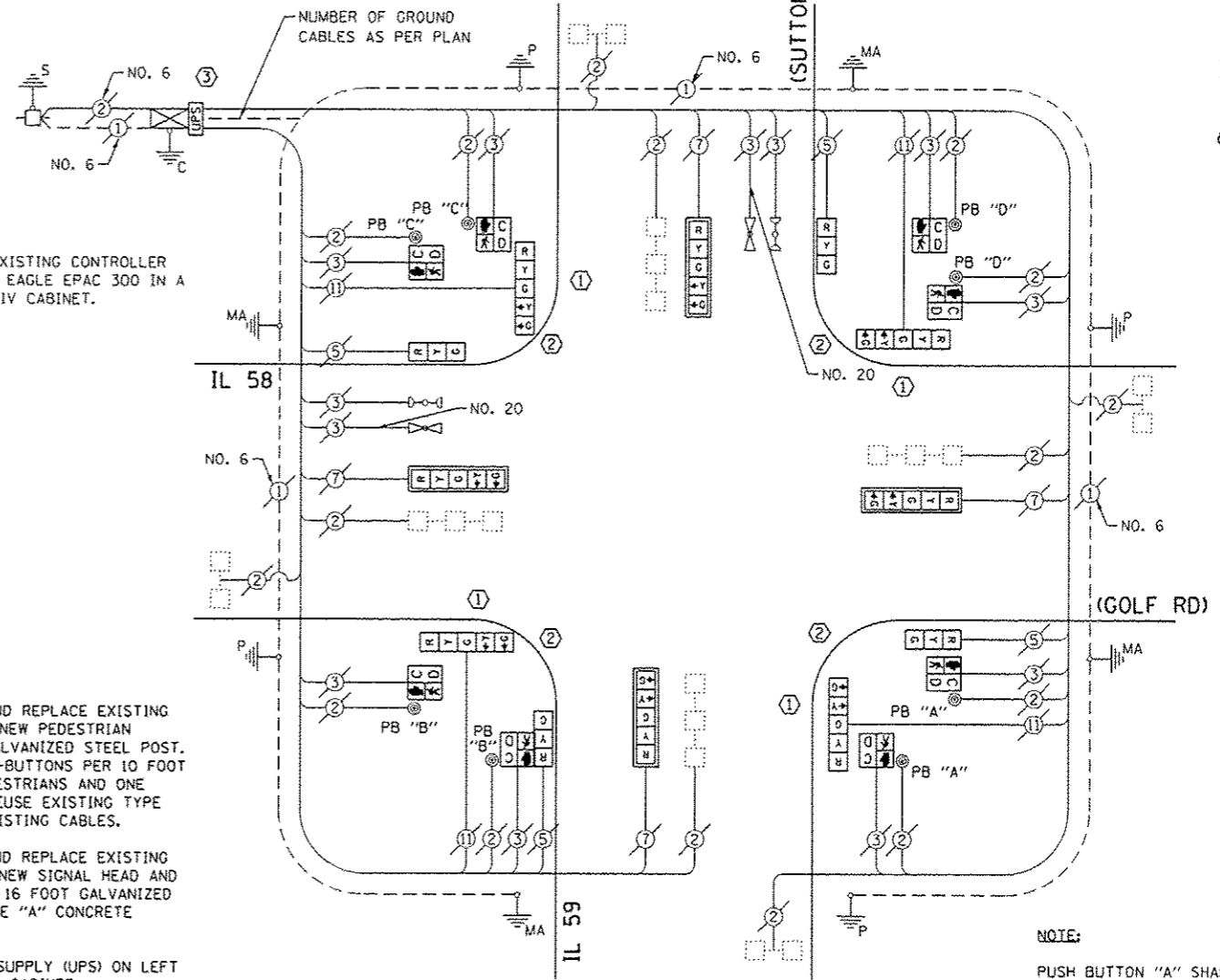
- 4 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 3-SECTION
- 8 EACH TRAFFIC SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 8 EACH TRAFFIC SIGNAL POST
- 8 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 8 EACH PEDESTRIAN PUSH-BUTTON

CONSTRUCTION NOTE:

- REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 10 FOOT PAINTED POST. INSTALL NEW PEDESTRIAN PUSH-BUTTONS ON NEW 10 FOOT GALVANIZED STEEL POST. INSTALL 2 (TWO) PEDESTRIAN PUSH-BUTTONS PER 10 FOOT POST. ONE LOCATED HIGH FOR EQUESTRIANS AND ONE LOCATED LOW FOR PEDESTRIANS. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES.
- REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 16 FOOT PAINTED POST. INSTALL NEW SIGNAL HEAD AND PEDESTRIAN SIGNAL HEADS ON NEW 16 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES.
- INSTALL UNINTERRUPTABLE POWER SUPPLY (UPS) ON LEFT SIDE OF THE EXISTING CONTROLLER CABINET.

NOTE:

THE EXISTING CONTROLLER IS AN EAGLE EPAC 300 IN A TYPE IV CABINET.

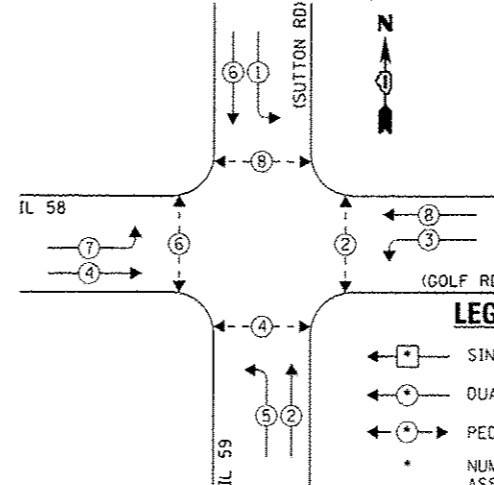


CABLE PLAN

NOTE:

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

EXISTING CONTROLLER SEQUENCE

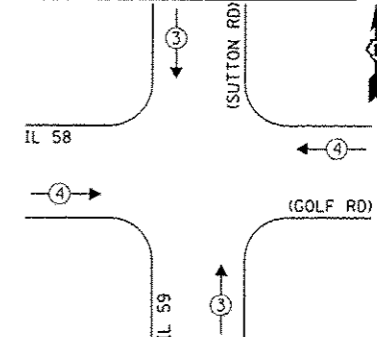


LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					566.2

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D:\60W38-041.dgn	USER NAME = zwallston	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 28,0000' / in.	DRAWN - GW3	REVISED -
	PLOT DATE = 5/24/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

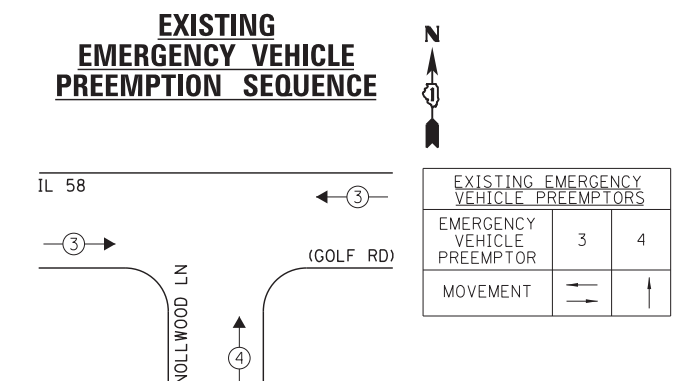
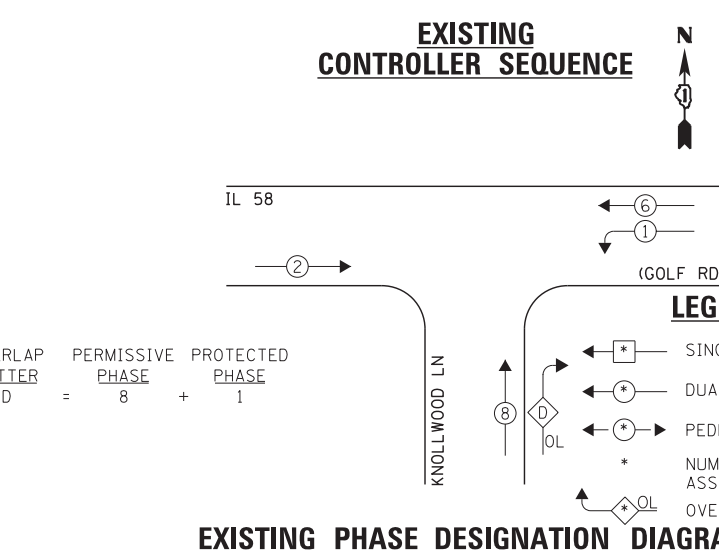
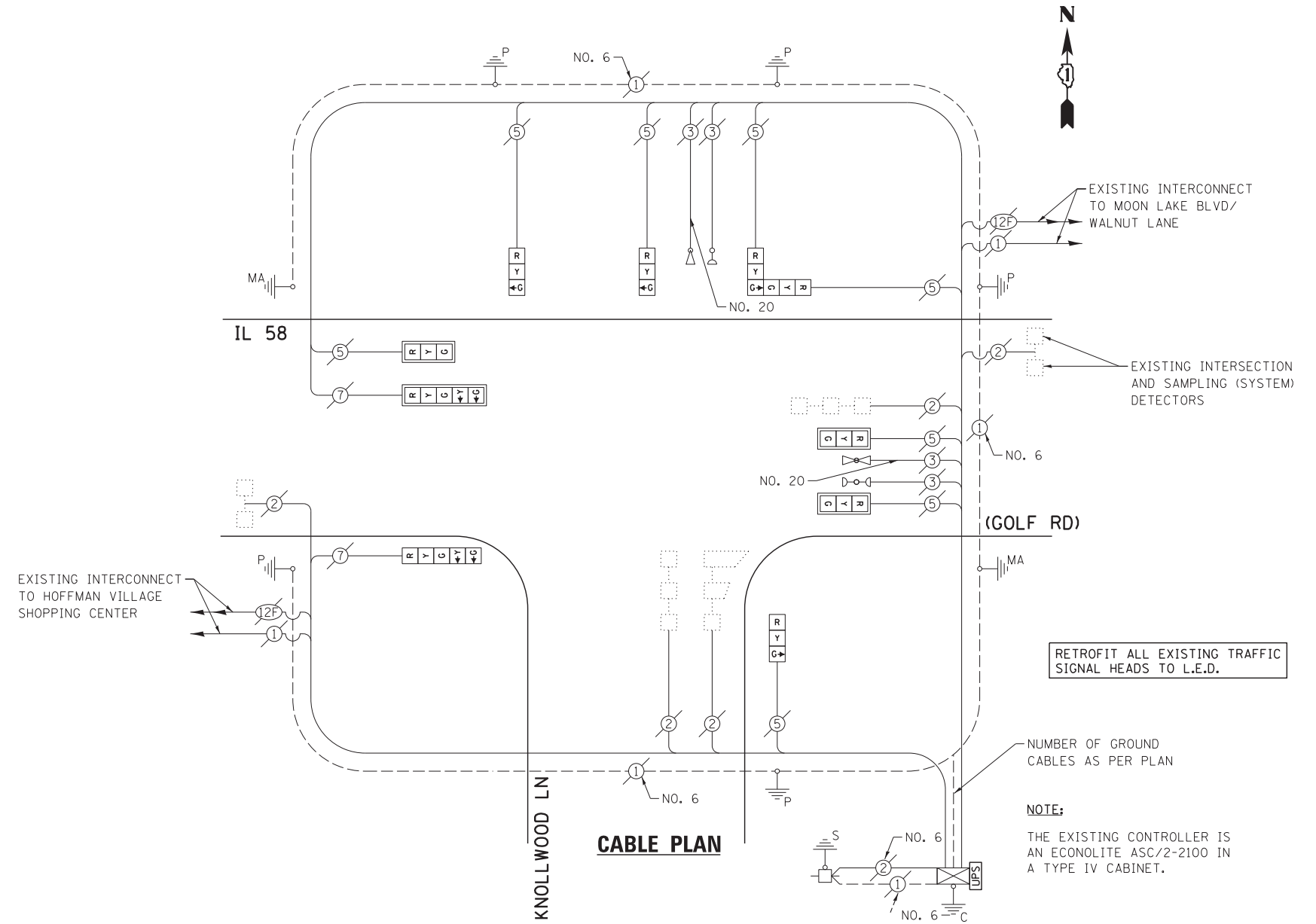
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 58 (GOLF RD) AT IL 59 (SUTTON RD)

F.A. RTE. VAR	SECTION 2013-007 TS	COUNTY COOK	TOTAL SHEETS 62	SHEET NO. 40
CONTRACT NO. 60W38			CHA #4085.889	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 58 (GOLF RD) AT KNOLLWOOD LANE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
5.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
6.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
8.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	10	135	17	0.50	85.0
SIGNAL (YELLOW)	10	135	25	0.25	62.5
SIGNAL (GREEN)	10	135	15	0.25	37.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					314.8

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-042.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

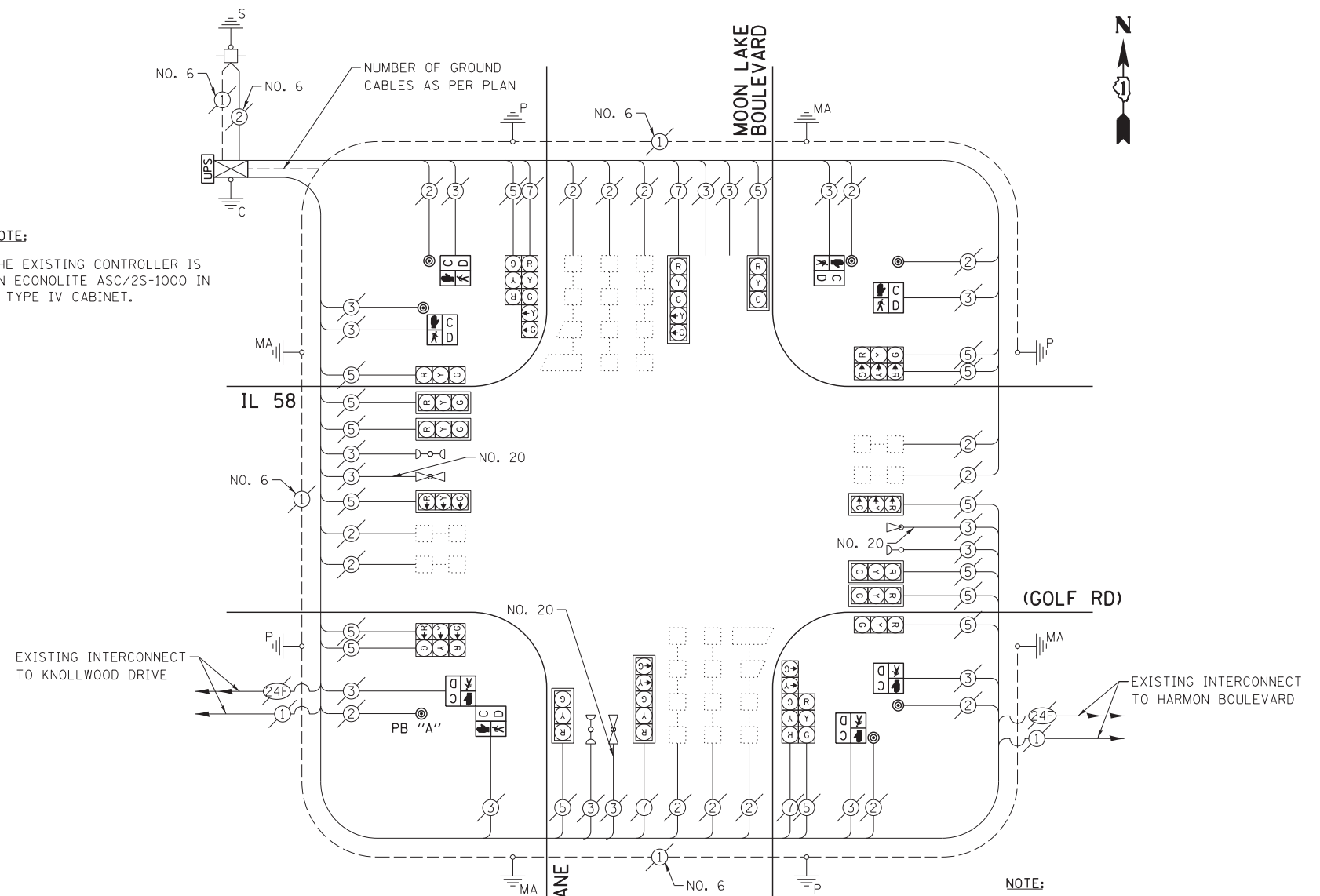
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 58 (GOLF RD) AT KNOLLWOOD LANE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	41
CONTRACT NO. 60W38				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 58 (GOLF RD) AT MOON LAKE BOULEVARD / WALNUT LANE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7.	7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

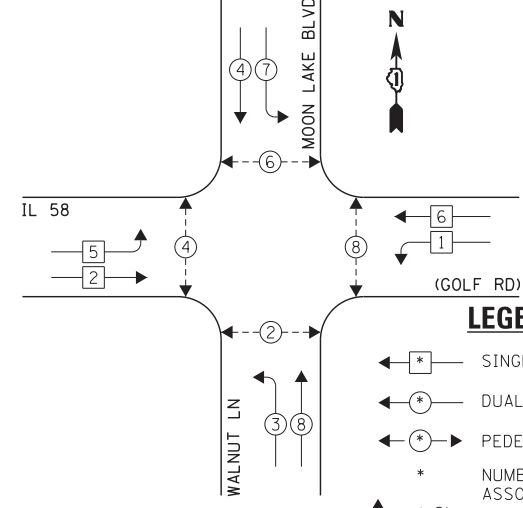


THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

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

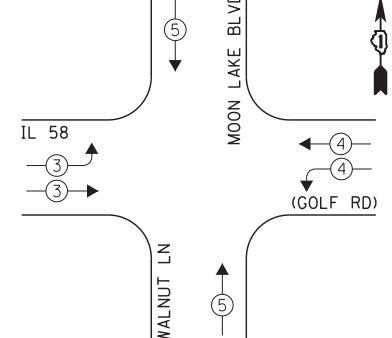
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↵	↵

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	8	135	12	0.10	9.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					704.2

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 58 (GOLF RD) AT MOON LAKE BOULEVARD /WALNUT LANE

FILE NAME =	USER NAME = gwhitten	DESIGNED -	JRD	REVISED -	
D160W38-043.dgn		DRAWN -	GW3	REVISED -	
Default	PLOT SCALE = 1:20	CHECKED -	KLB	REVISED -	
	PLOT DATE = 5/9/2013	DATE -	05/10/13	REVISED -	

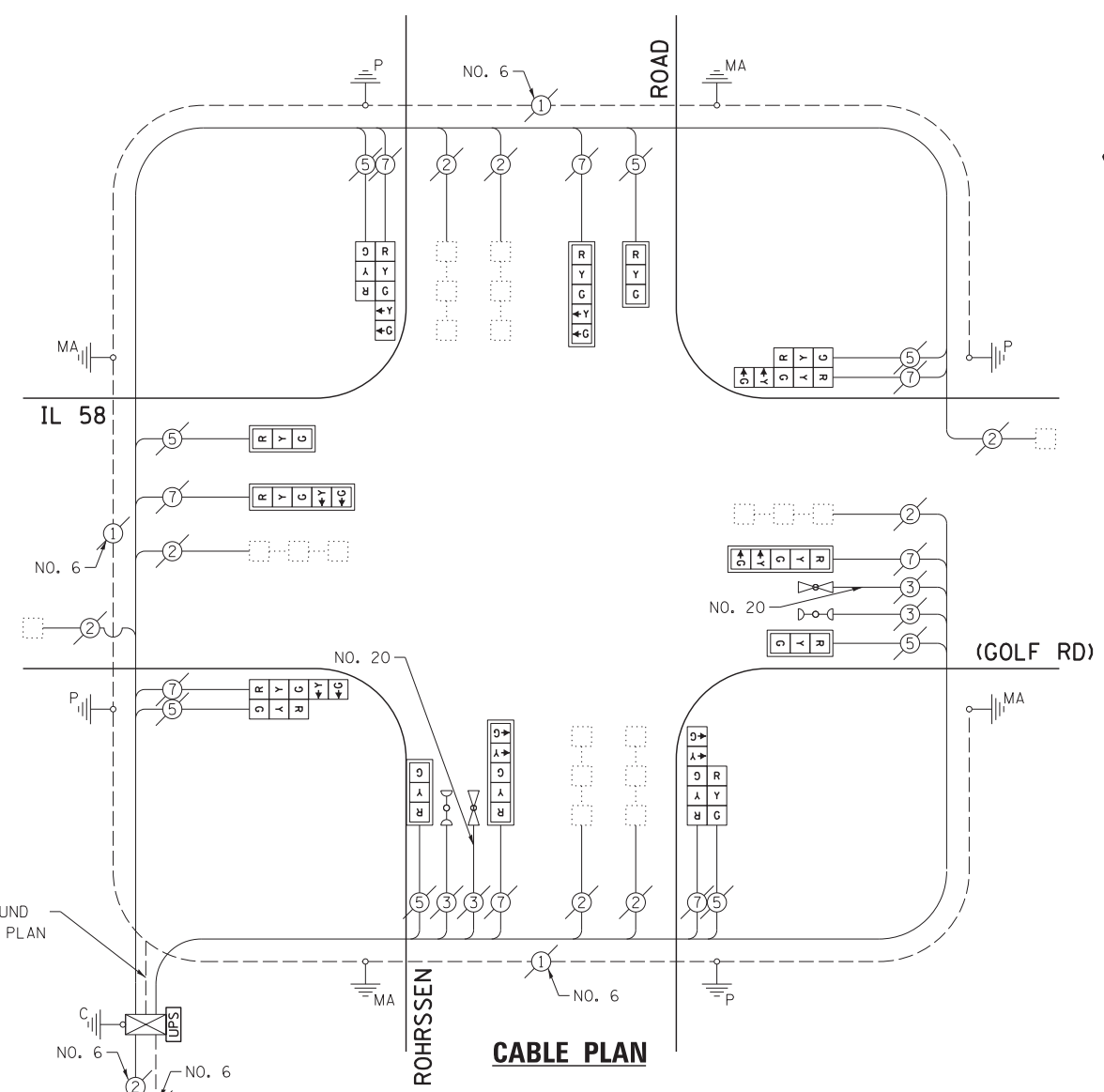
SCALE: SHEET OF SHEETS STA. TO STA.

GHA #4085.889

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	42
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 58 (GOLF RD) AT ROHRSSEN ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
4.	4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
5.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
6.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT

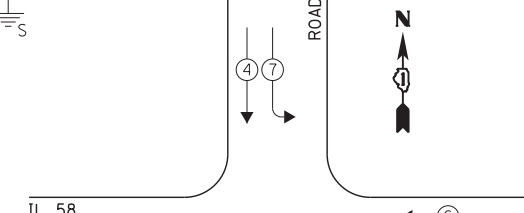


NUMBER OF GROUND CABLES AS PER PLAN

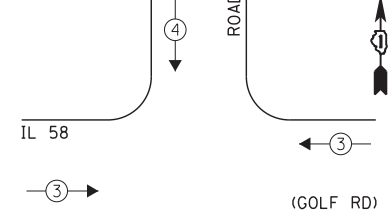
NOTE:
THE EXISTING CONTROLLER IS AN EAGLE EPAC 300 IN A TYPE IV CABINET.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

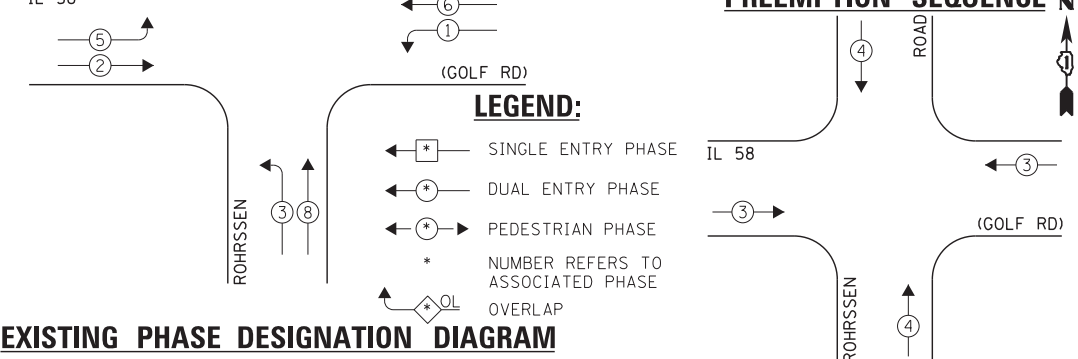


LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	→ ↑

EXISTING PHASE DESIGNATION DIAGRAM



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.25	60.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =				440.2	

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME	USER NAME	DESIGNED	REVISIONS
D160W38-044.dgn	gwhitten	JRD	-
Default		GW3	-
		KLW	-
		05/10/13	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 58 (GOLF RD) AT ROHRSSEN ROAD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	43
CONTRACT NO. 60W38				
ILLINOIS FED. AID PROJECT				

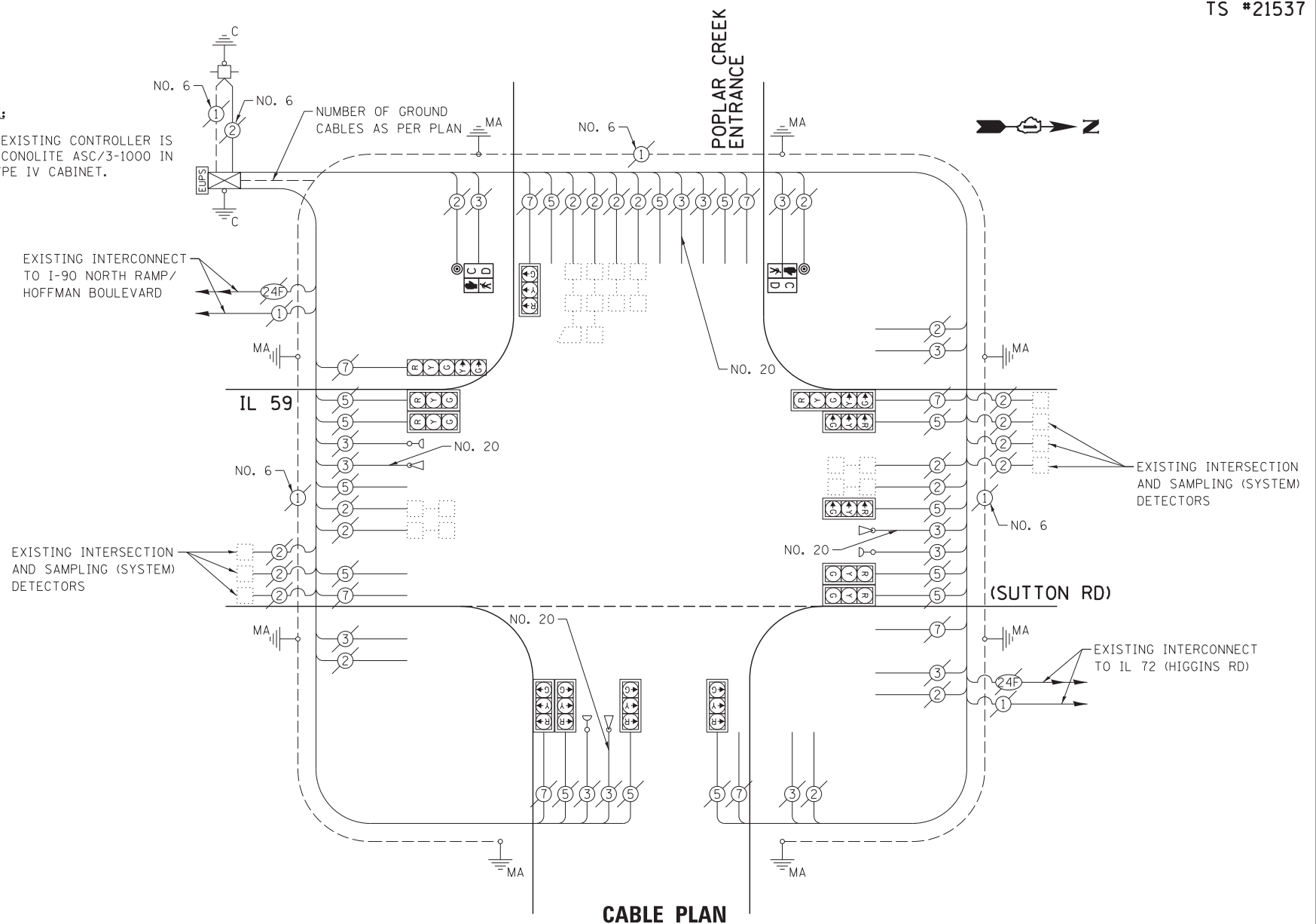
GHA #4085.889

SCHEDULE OF QUANTITIES
IL 59 (SUTTON RD) AT POPLAR CREEK ENTRANCE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	2	EACH	PEDESTRIAN PUSH-BUTTON
4.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

NOTE:

THE EXISTING CONTROLLER IS AN ECONOLITE ASC/3-1000 IN A TYPE IV CABINET.

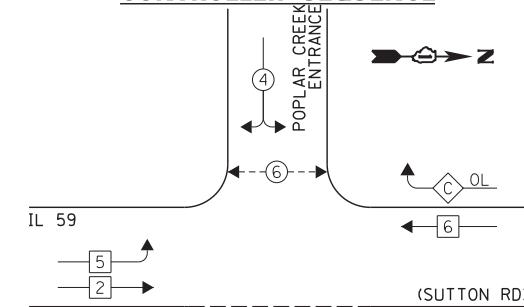


CABLE PLAN

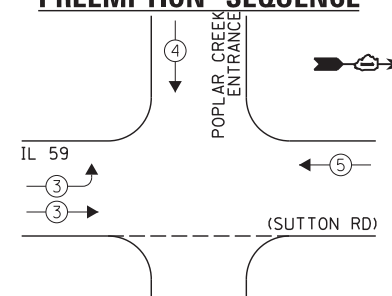
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * OL → OVERLAP

OVERLAP LETTER C = PERMISSIVE PHASE 7

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	←

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	81.25
SIGNAL (GREEN)	13	135	15	0.25	48.75
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					420.3

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION (ADDRESS) 201 W. CENTER COURT (ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT (PHONE) 630-437-2129 (COMPANY) COMED - OAKBROOK TERRACE

FILE NAME = D160W38-045.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

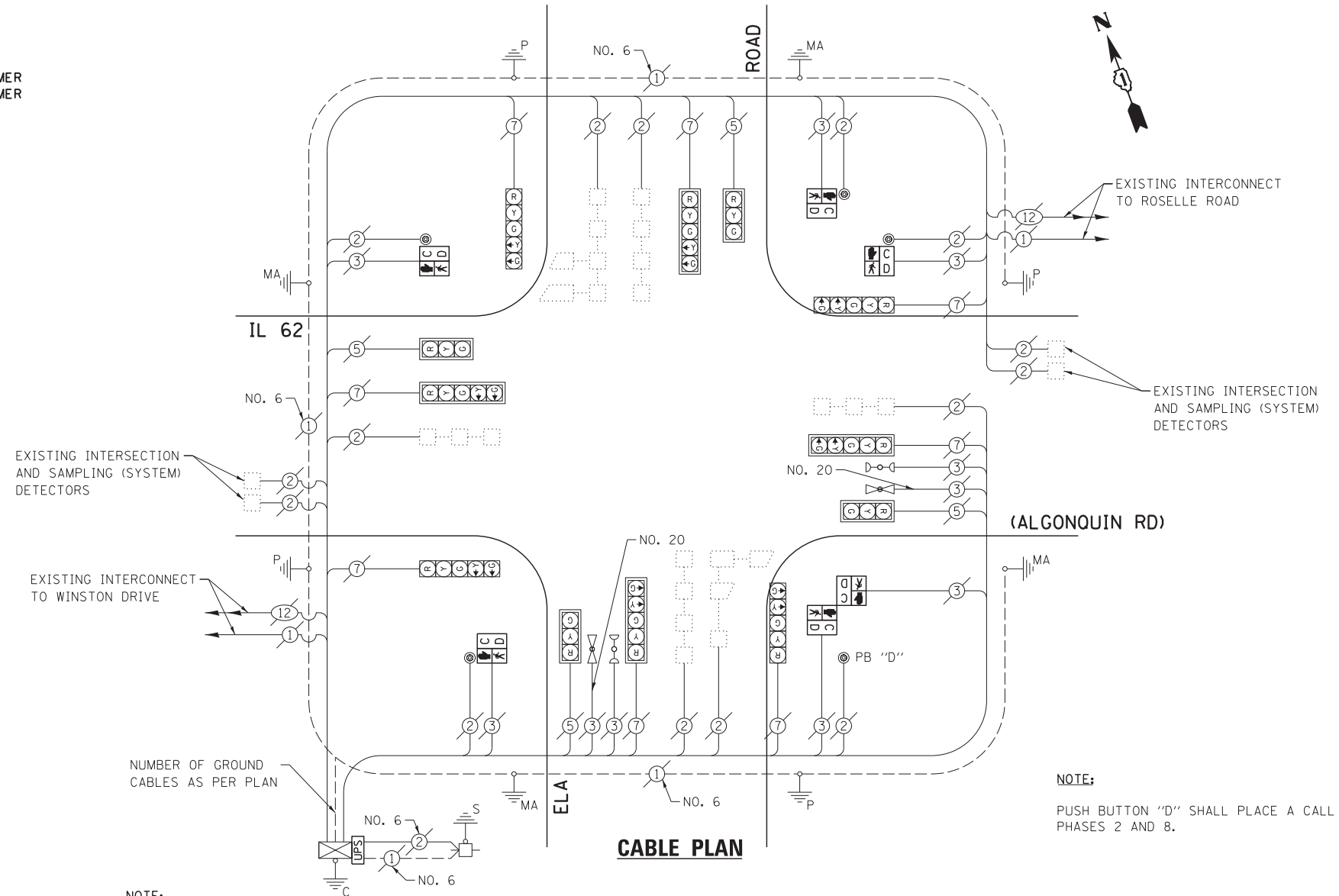
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 59 (SUTTON RD) AT POPLAR CREEK ENTRANCE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	44
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 62 (ALGONQUIN RD) AT ELA ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7.	5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



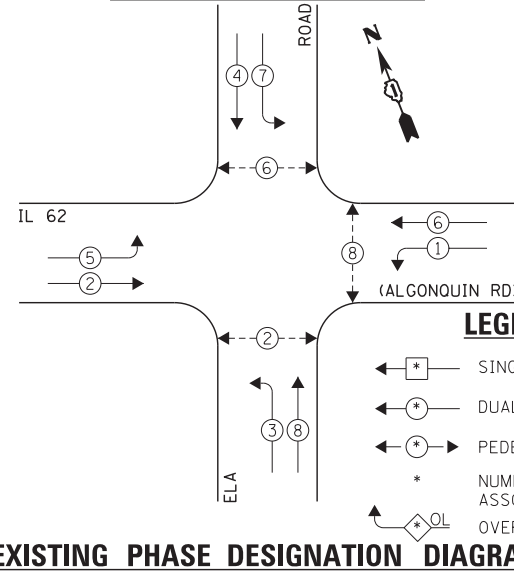
NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2000 IN A TYPE IV CABINET.

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

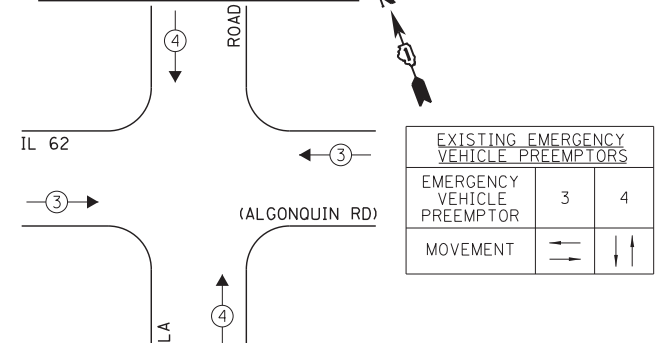
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
SIGNAL (YELLOW)	12	135	25	0.25	75.0
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					516.2

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-046.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 62 (ALGONQUIN RD) AT ELA ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	45
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

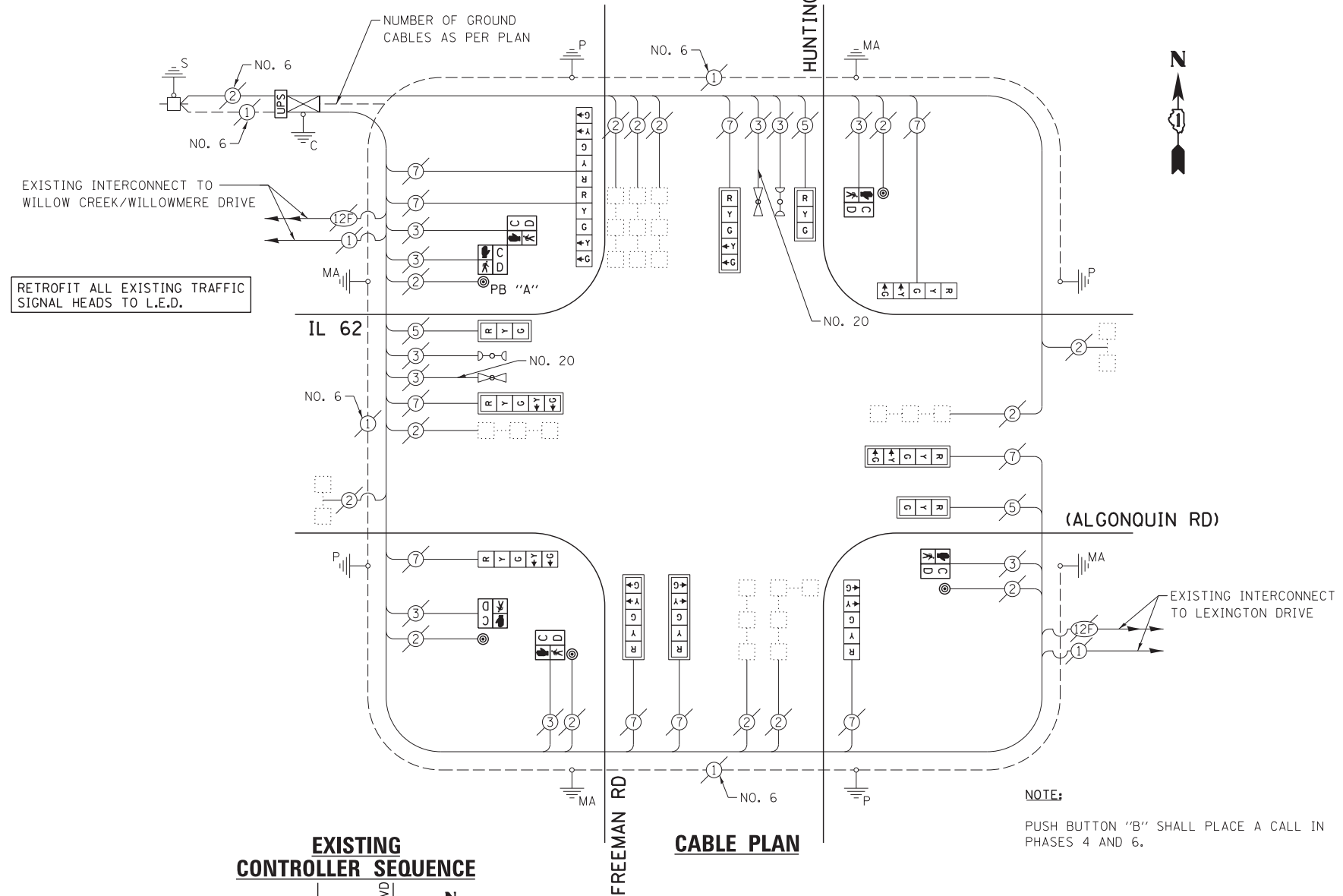
SCHEDULE OF QUANTITIES

IL 62 (ALGONQUIN RD) AT FREEMAN ROAD / HUNTINGTON BOULEVARD

NO.	QUANT.	UNIT
1.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	1	EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
7.	3	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
8.	5	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
9.	3	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
10.	1	EACH SIGNAL HEAD, LED, 2 FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
11.	5	EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

NOTE:

THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2000 IN A TYPE IV CABINET.



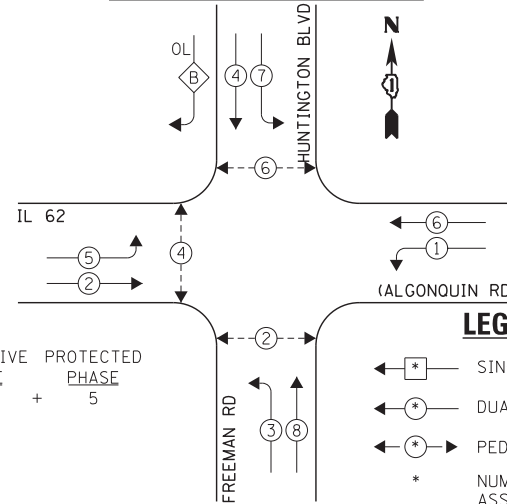
RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS TO L.E.D.

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

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

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

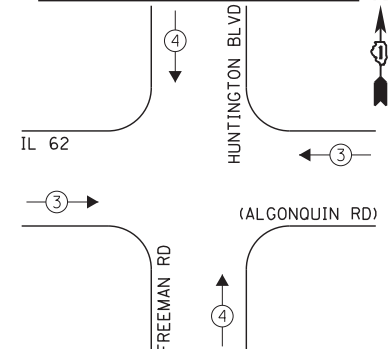
EXISTING CONTROLLER SEQUENCE



OVERLAP LETTER B = PERMISSIVE PHASE 4 + PROTECTED PHASE 5

- LEGEND:
- ← * → SINGLE ENTRY PHASE
 - ← * DUAL ENTRY PHASE
 - ← * → PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE
 - ← * OL → OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	81.25
SIGNAL (GREEN)	13	135	15	0.25	48.75
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					537.1

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
 (ADDRESS) 201 W. CENTER COURT
 (ADDRESS) SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY - CONTACT: DAVE SCHACHT
 PHONE: 630-437-2129
 COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-047.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

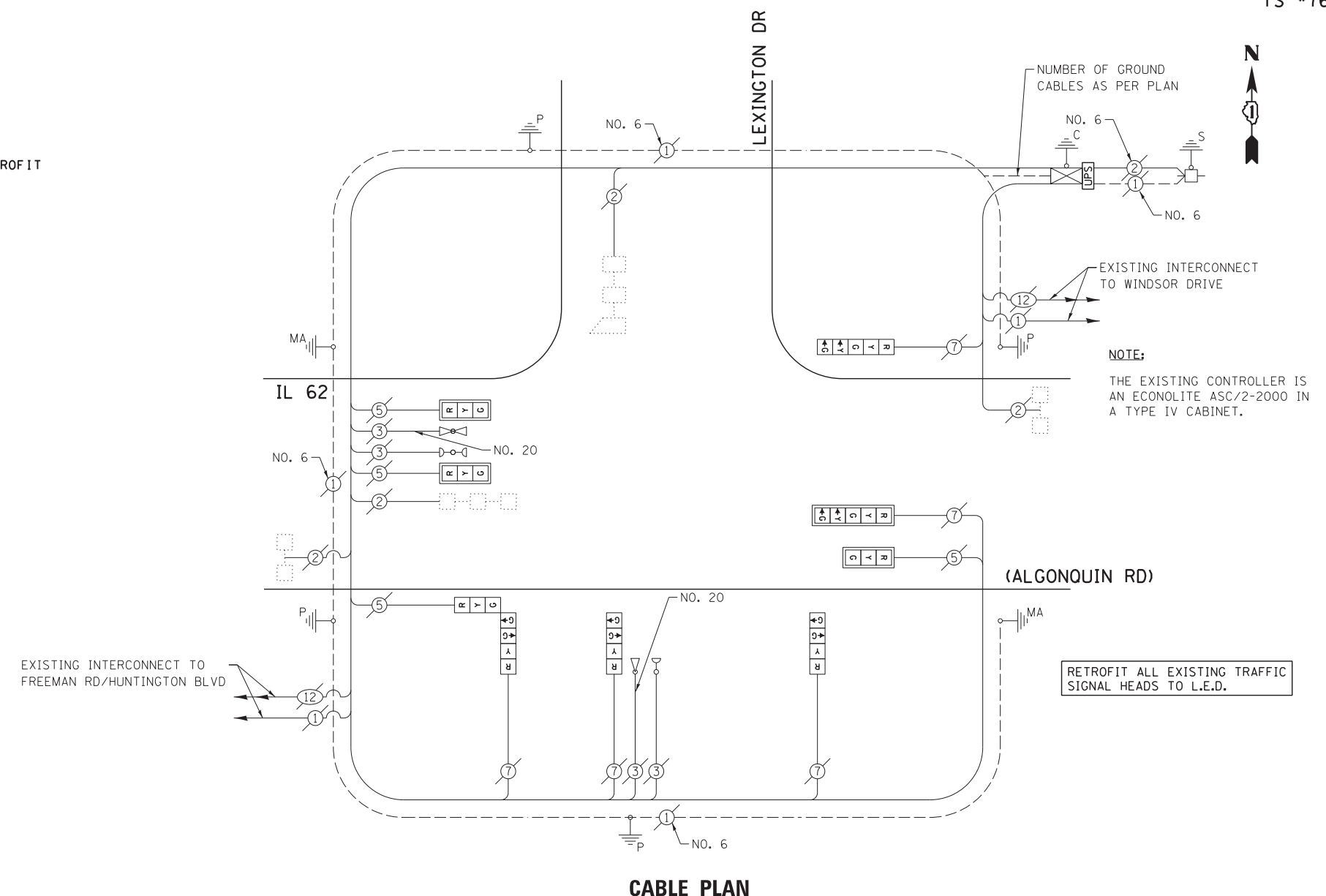
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL 62 (ALGONQUIN RD) AT FREEMAN ROAD /HUNTINGTON BOULEVARD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	46
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

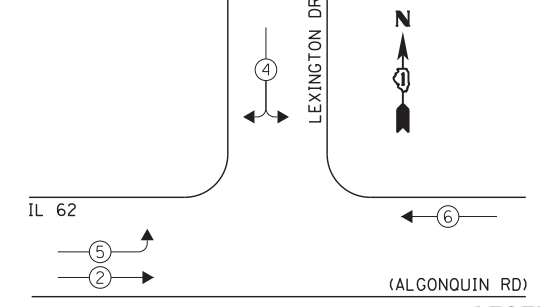
SCHEDULE OF QUANTITIES
IL 62 (ALGONQUIN RD) AT LEXINGTON DRIVE

NO.	QUANT.	UNIT
1.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4.	1	EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED, RETROFIT
5.	3	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
6.	1	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
7.	2	EACH SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED, RETROFIT
8.	1	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

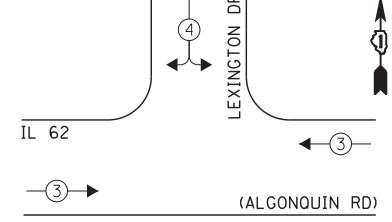


CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	9	135	17	0.50	76.5
SIGNAL (YELLOW)	9	135	25	0.25	56.25
SIGNAL (GREEN)	12	135	15	0.25	45.0
ARROW	-	135	12	0.10	-
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					302.75

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D160W38-048.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 62 (ALGONQUIN RD) AT LEXINGTON DRIVE

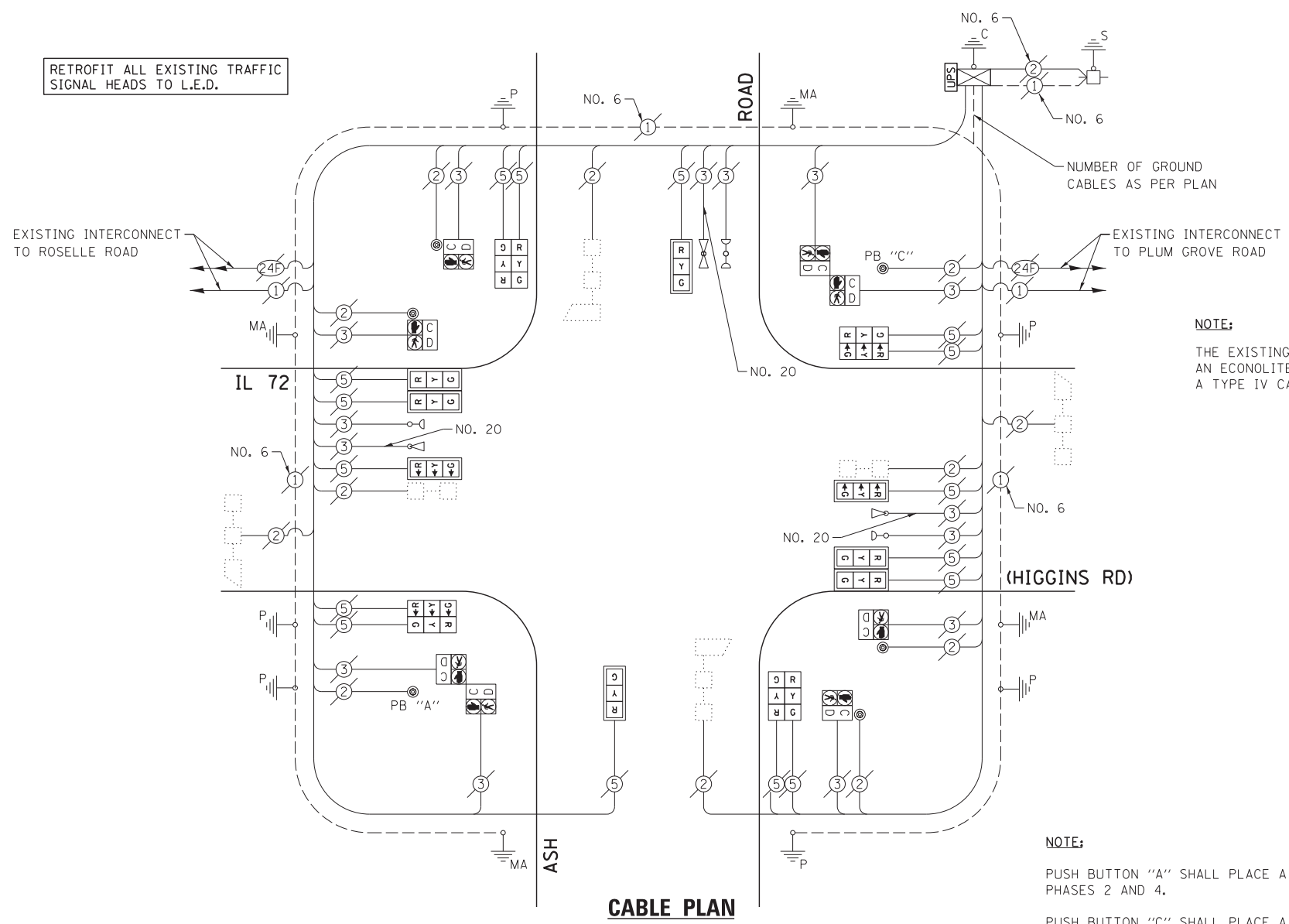
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	47
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT ASH ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
4.	8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
5.	4	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT

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

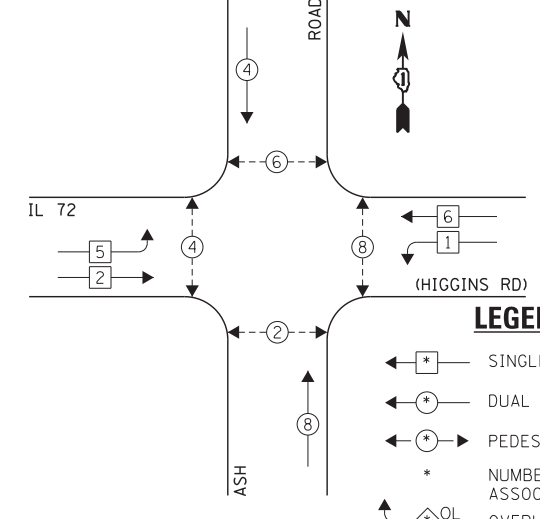


NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

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

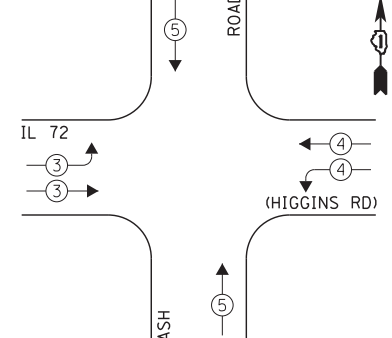
CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.25	60.0
ARROW	-	135	12	0.10	-
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =				621.0	

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-049.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

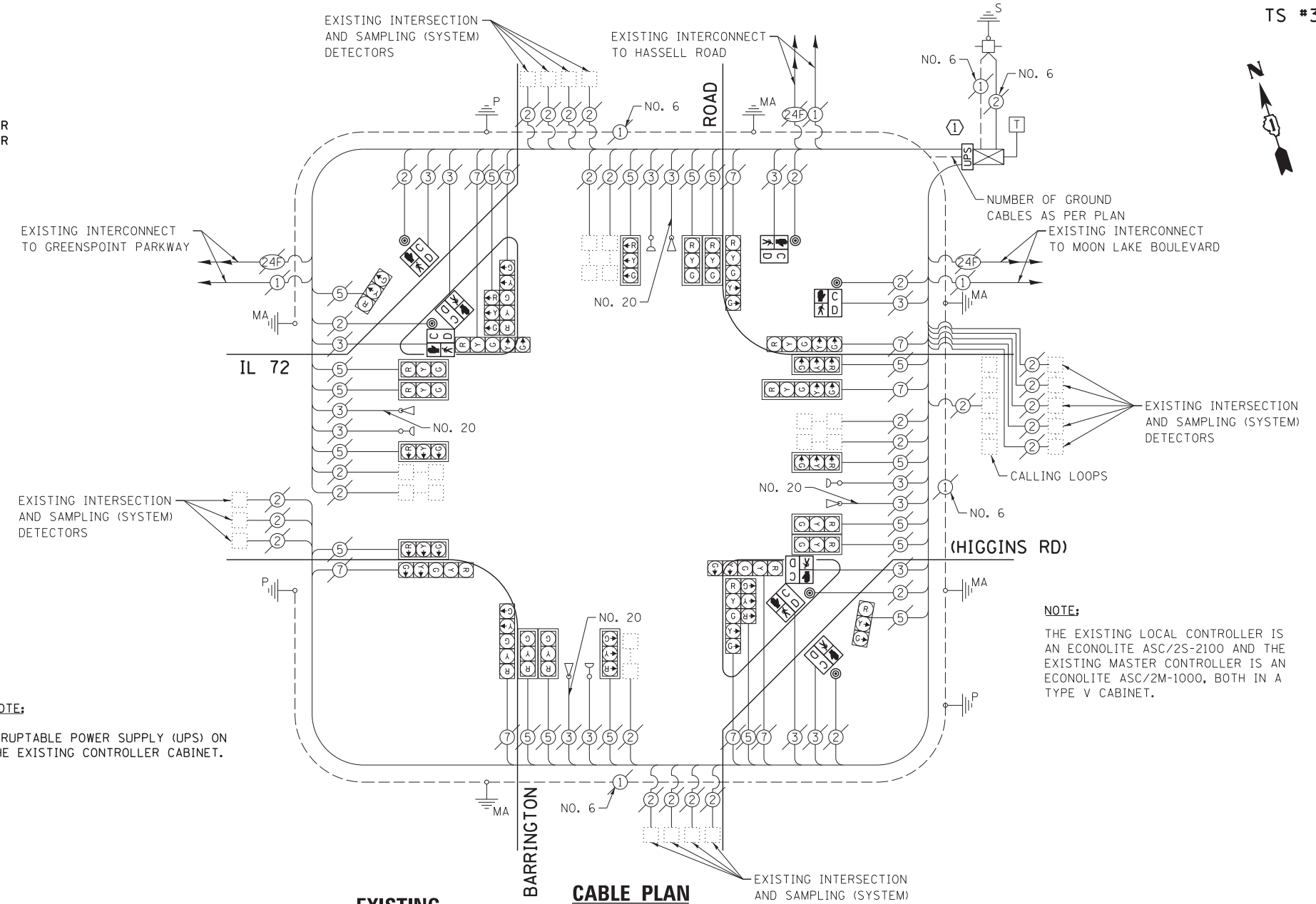
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT ASH ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	48
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT BARRINGTON ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7.	6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



CONSTRUCTION NOTE:
① INSTALL UNINTERRUPTABLE POWER SUPPLY (UPS) ON LEFT SIDE OF THE EXISTING CONTROLLER CABINET.

NOTE:
THE EXISTING LOCAL CONTROLLER IS AN ECONOLITE ASC/25-2100 AND THE EXISTING MASTER CONTROLLER IS AN ECONOLITE ASC/2M-1000, BOTH IN A TYPE V CABINET.

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

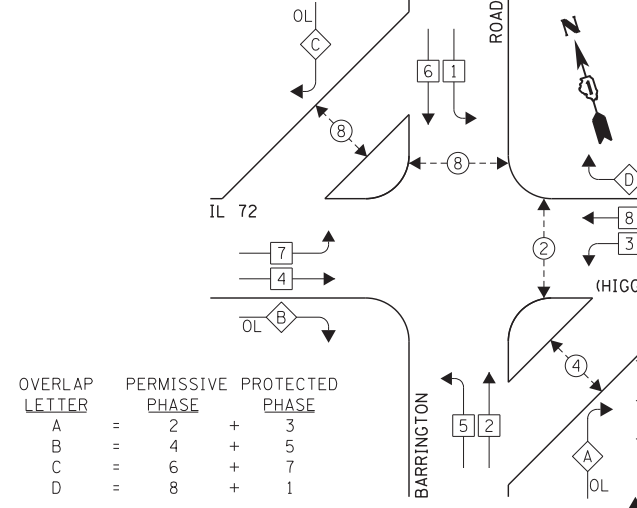
- 4 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 6 EACH PEDESTRIAN PUSH-BUTTON

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	27	135	17	0.50	229.5
SIGNAL (YELLOW)	27	135	25	0.25	168.75
SIGNAL (GREEN)	27	135	15	0.25	101.25
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =				846.1	

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

EXISTING CONTROLLER SEQUENCE

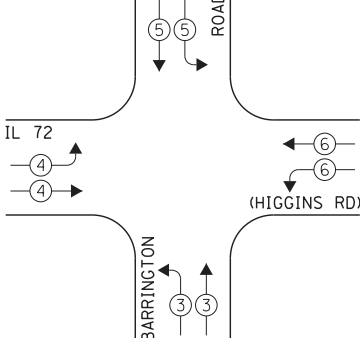


OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7
D	= 8	+ 1

- LEGEND:**
- SINGLE ENTRY PHASE
 - DUAL ENTRY PHASE
 - ← PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	↔	↔	↔	↔

FILE NAME = D160W38-050.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

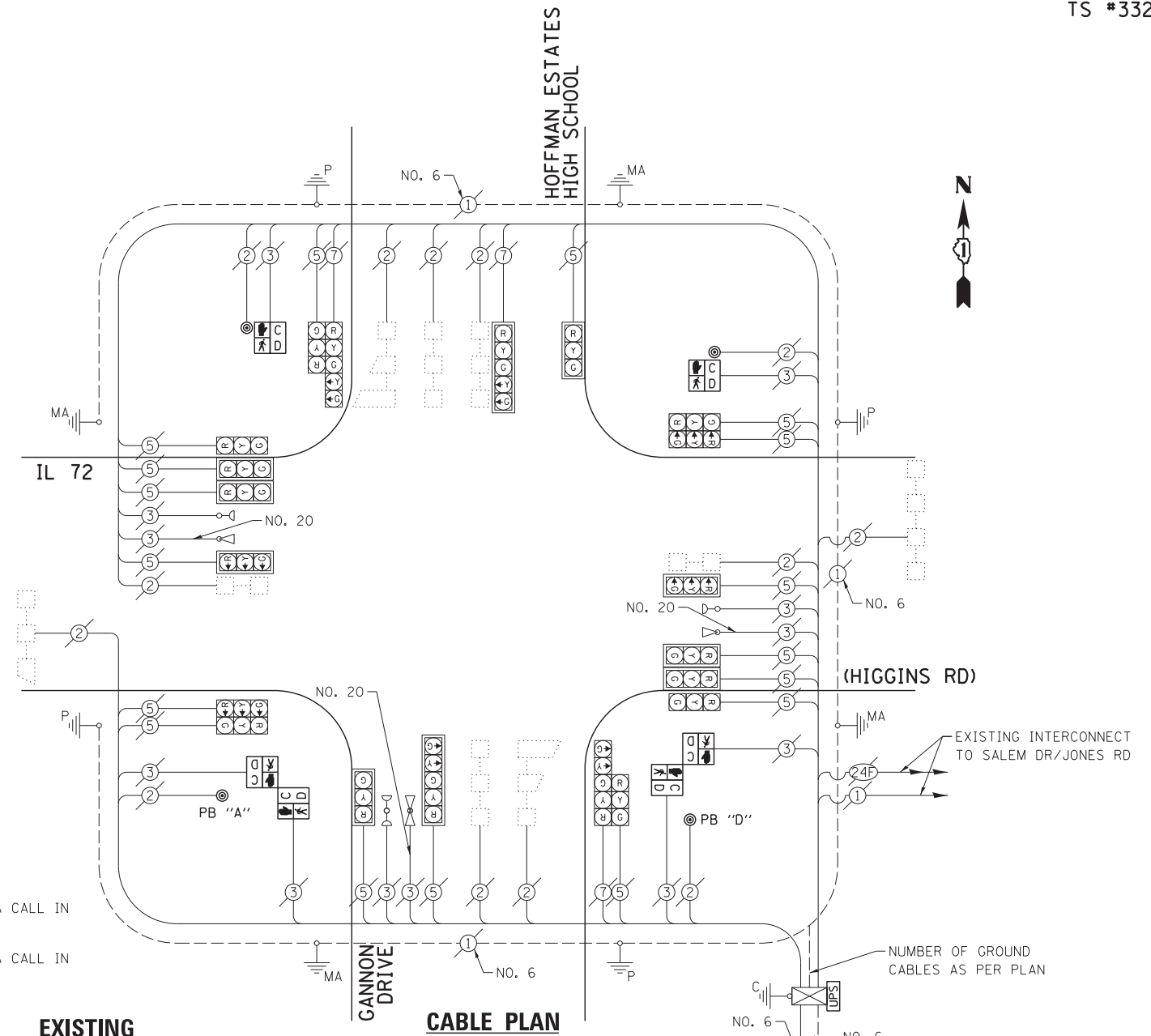
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT BARRINGTON ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	49
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT GANNON DRIVE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7.	4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



NOTE:

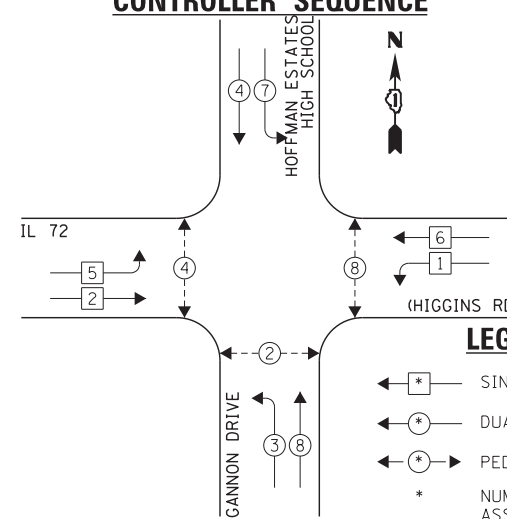
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.

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

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

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

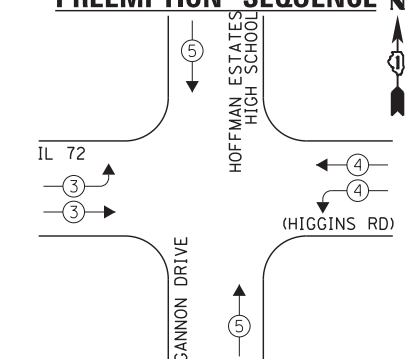
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	↔	↔	↕

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					654.6

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D:\60W38-051.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISIONS -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISIONS -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISIONS -
		DATE - 05/10/13	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT GANNON DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

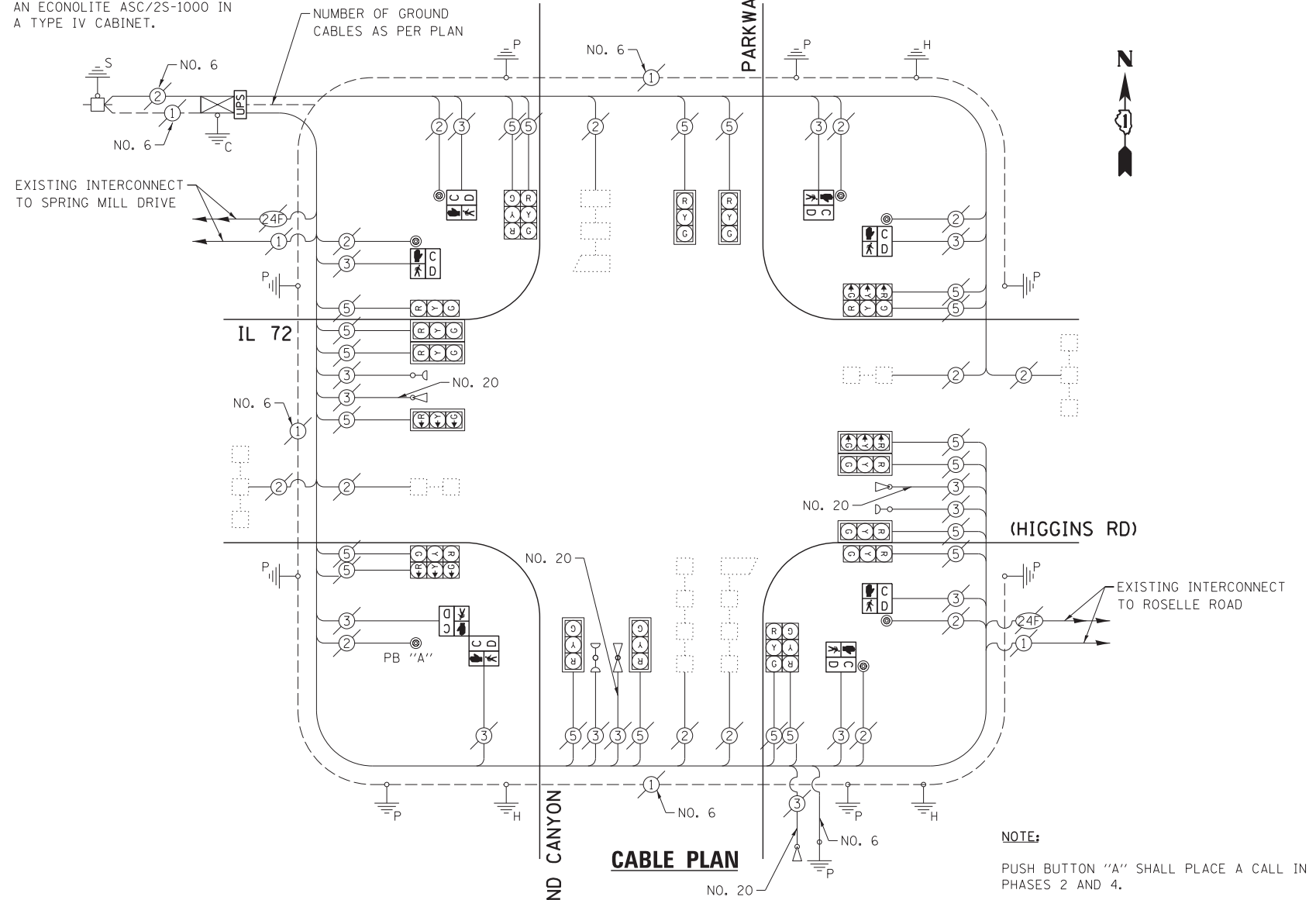
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	50
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT GRAND CANYON PARKWAY

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
7.	7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

NOTE:

THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.



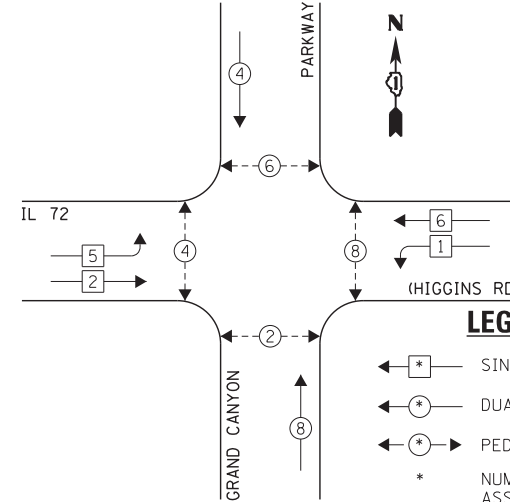
NOTE:

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

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

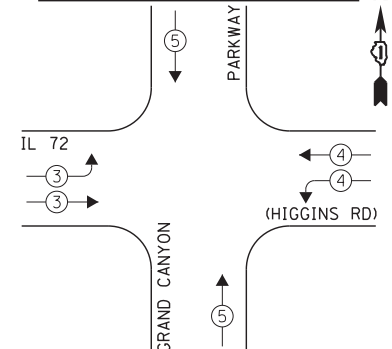
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- * OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↕

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	-	135	12	0.10	-
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					695.0

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-052.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT GRAND CANYON PARKWAY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	51
CONTRACT NO. 60W38				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT HUNTINGTON BOULEVARD

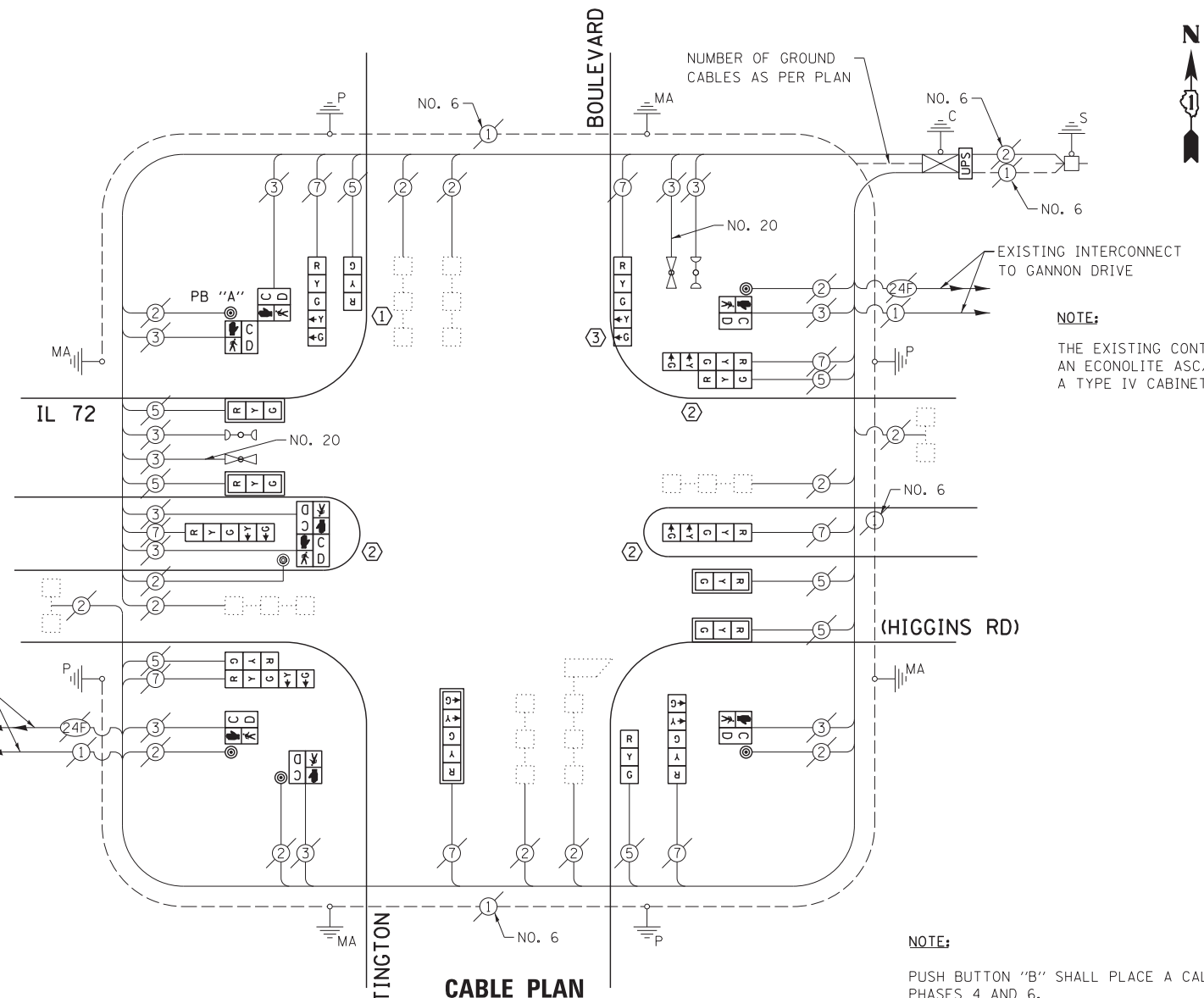
NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
3.	2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
5.	4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
6.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
7.	5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
8.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
9.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
10.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
11.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
12.	5	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
13.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
14.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
15.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
16.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
17.	6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

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

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

CONSTRUCTION NOTE:

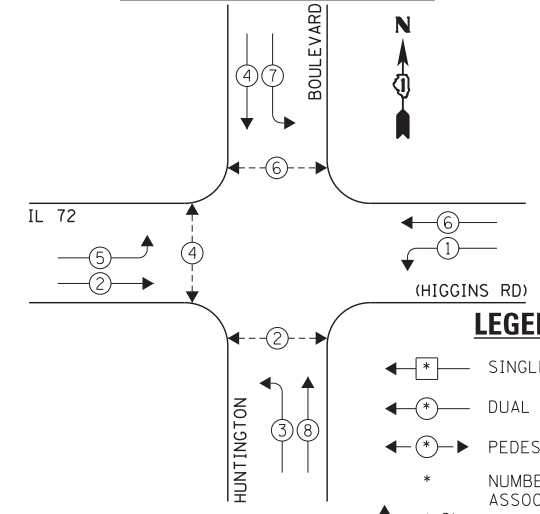
- ① REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 14 FOOT PAINTED POST. INSTALL NEW SIGNAL HEADS ON NEW 14 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES.
- ② REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 16 FOOT PAINTED POST. INSTALL NEW SIGNAL HEADS ON NEW 16 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES.
- ③ REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 18 FOOT PAINTED POST. INSTALL NEW SIGNAL HEADS ON NEW 18 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES. REINSTALL EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT ON NEW POST.



NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

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

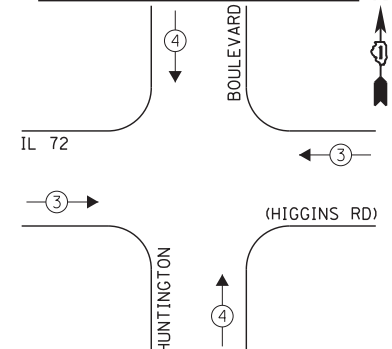
EXISTING CONTROLLER SEQUENCE



LEGEND:

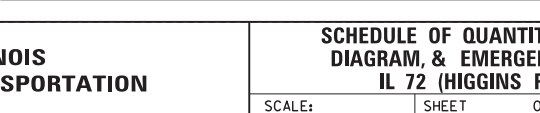
- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OL OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

EXISTING PHASE DESIGNATION DIAGRAM



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.25	60.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					640.2

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-053.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

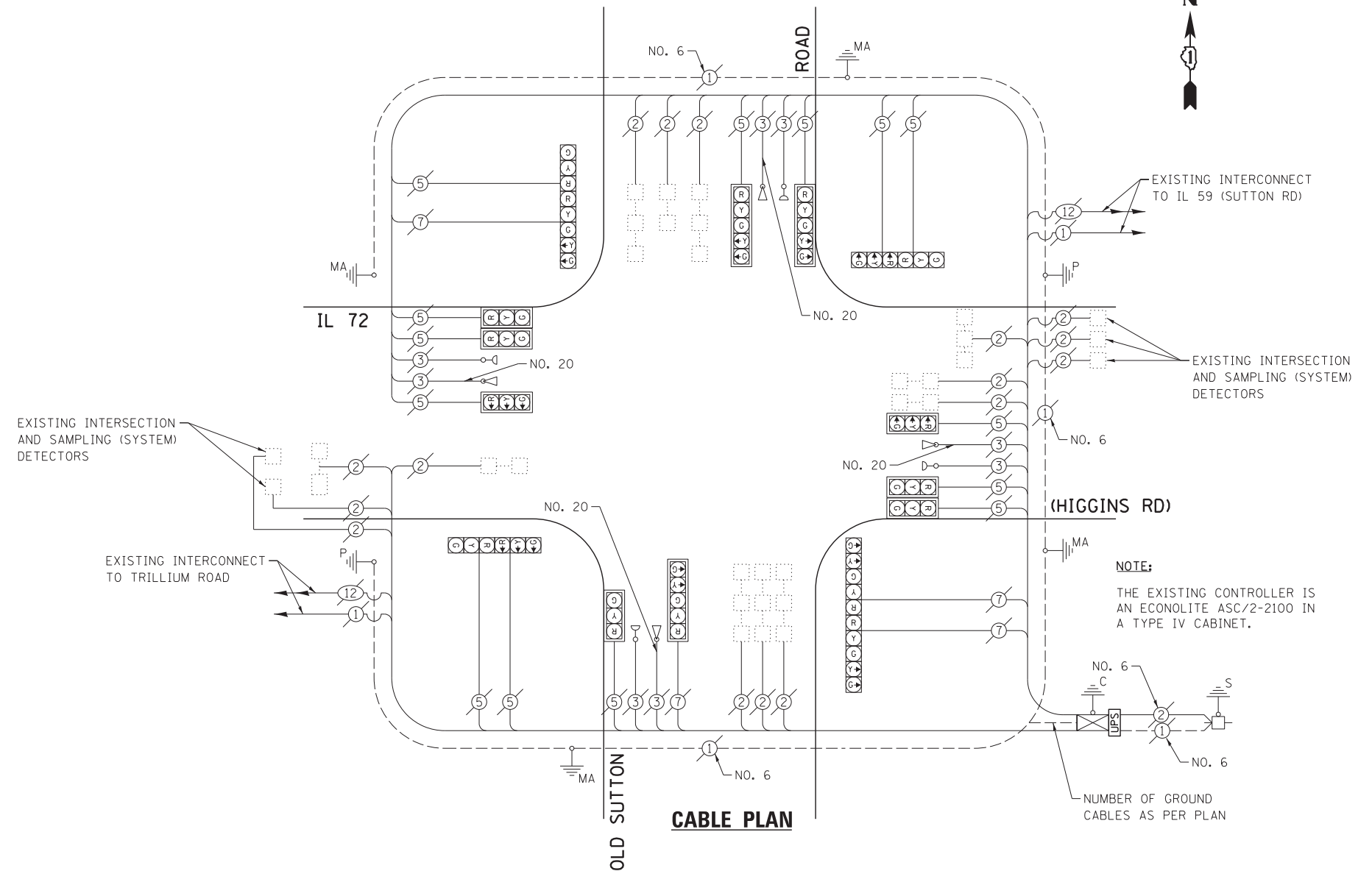
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT HUNTINGTON BOULEVARD

SCALE: SHEET OF SHEETS STA. TO STA.

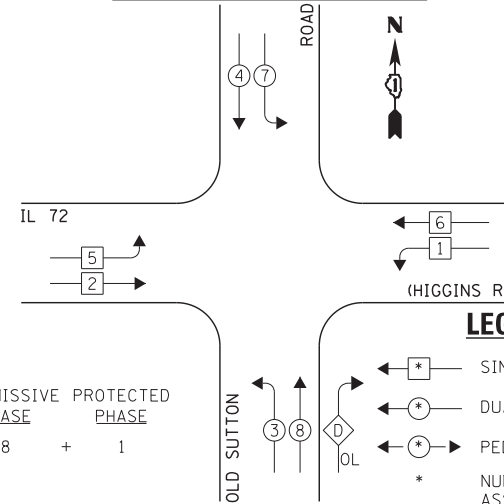
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	52
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT OLD SUTTON ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

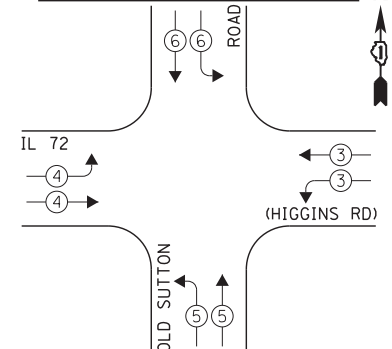


EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTOR MOVEMENT	3	4	5	6
←	←	←	←	←
→	→	→	→	→
↔	↔	↔	↔	↔

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	18	135	17	0.50	153.0
SIGNAL (YELLOW)	18	135	25	0.25	112.5
SIGNAL (GREEN)	18	135	15	0.25	67.5
ARROW	12	135	12	0.10	14.4
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =				472.4	

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION (ADDRESS) 201 W. CENTER COURT (ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT (PHONE) 630-437-2129 (COMPANY) COMED - OAKBROOK TERRACE

FILE NAME = D160W38-054.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

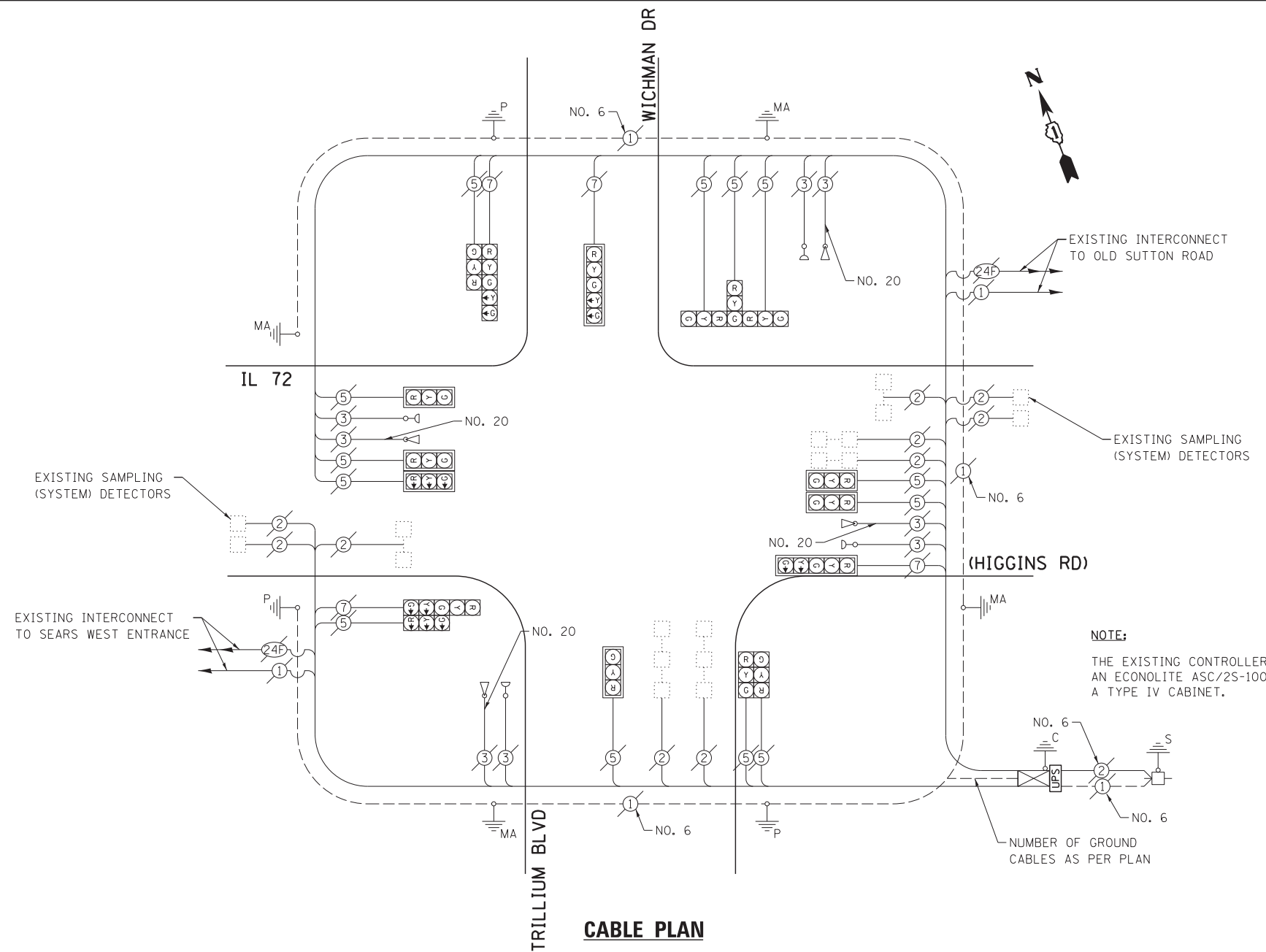
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT OLD SUTTON ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	53
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

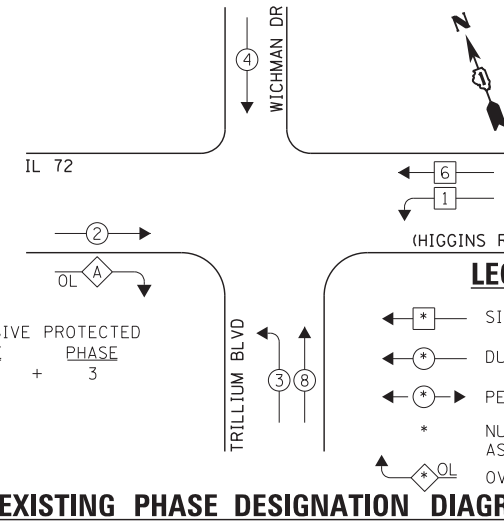
SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT TRILLIUM BOULEVARD / WICHMAN DRIVE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

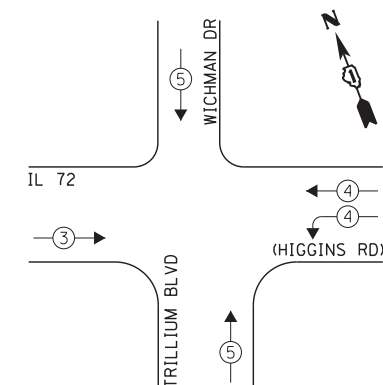


NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
 - ← * → DUAL ENTRY PHASE
 - ← * → PEDESTRIAN PHASE
 - * NUMBER REFERS TO ASSOCIATED PHASE
 - ← * → OVERLAP
- OVERLAP LETTER A = PERMISSIVE PHASE + PROTECTED PHASE

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	↔	↑↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	17	135	17	0.50	144.5
SIGNAL (YELLOW)	17	135	25	0.25	106.25
SIGNAL (GREEN)	17	135	15	0.25	63.75
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =				449.1	

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-055.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

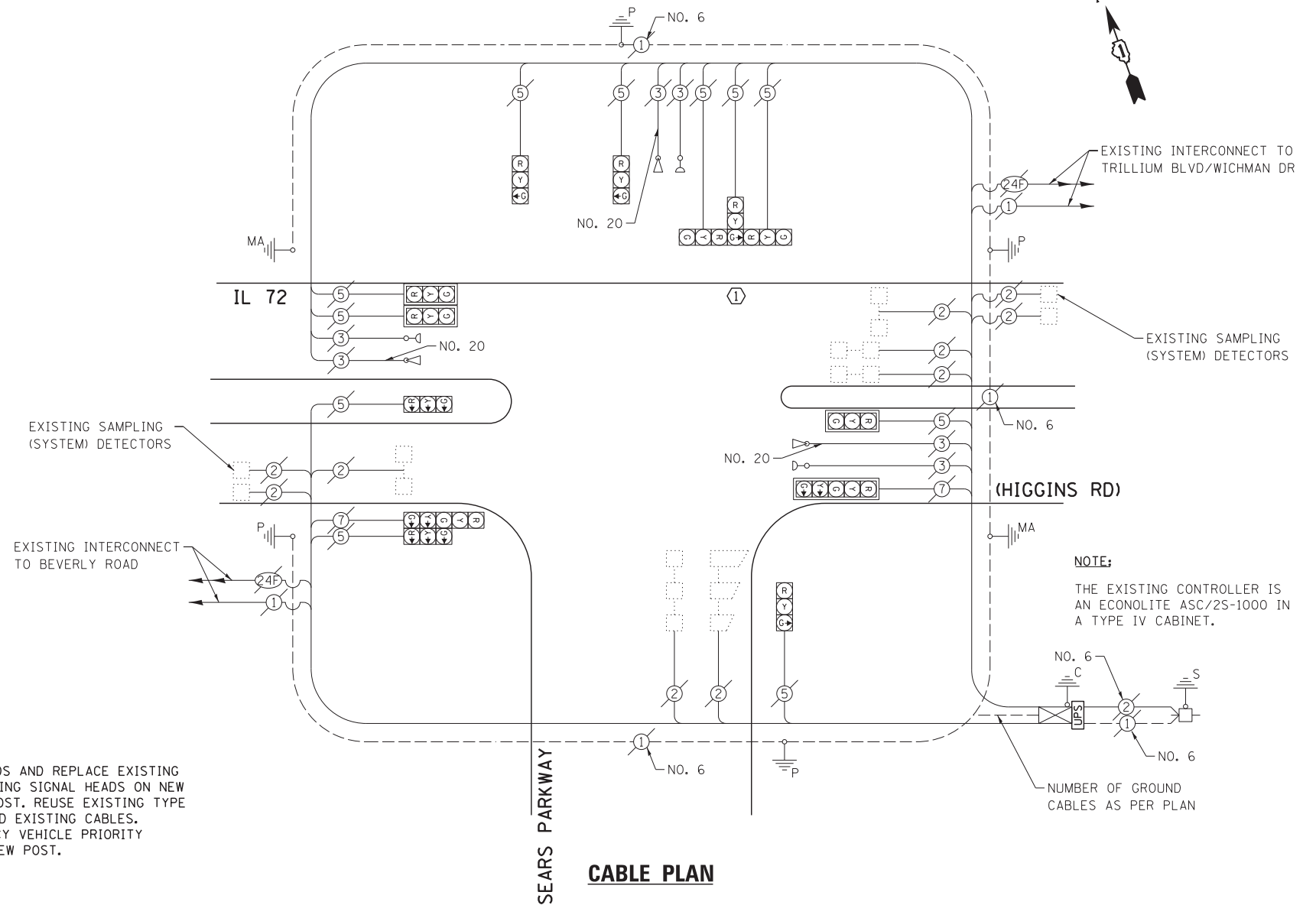
**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT TRILLIUM BOULEVARD / WICHMAN DRIVE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	54
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT SEARS PARKWAY

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.
3.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



CONSTRUCTION NOTE:

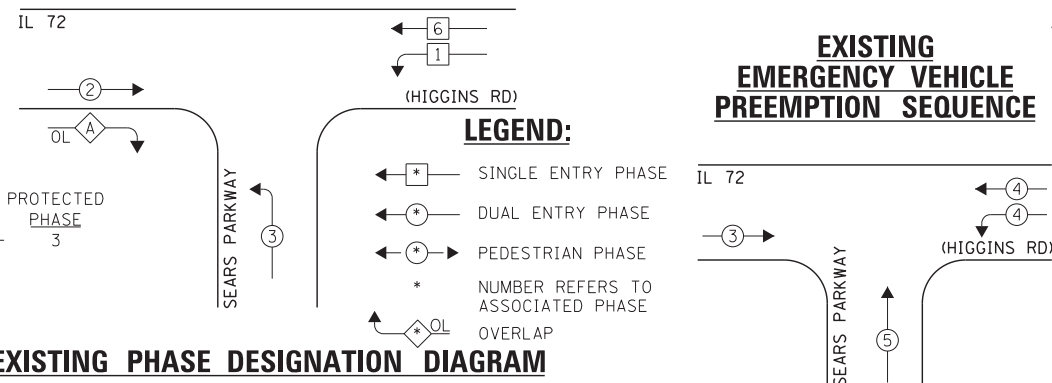
- ① REMOVE EXISTING SIGNAL HEADS AND REPLACE EXISTING 14 FOOT POST. INSTALL EXISTING SIGNAL HEADS ON NEW 18 FOOT GALVANIZED STEEL POST. REUSE EXISTING TYPE "A" CONCRETE FOUNDATION AND EXISTING CABLES. REINSTALL EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT ON NEW POST.

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

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

- 1 EACH TRAFFIC SIGNAL POST

EXISTING CONTROLLER SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	13	135	17	0.50	110.5
SIGNAL (YELLOW)	13	135	25	0.25	81.25
SIGNAL (GREEN)	13	135	15	0.25	48.75
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					370.3

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

FILE NAME = D160W38-056.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

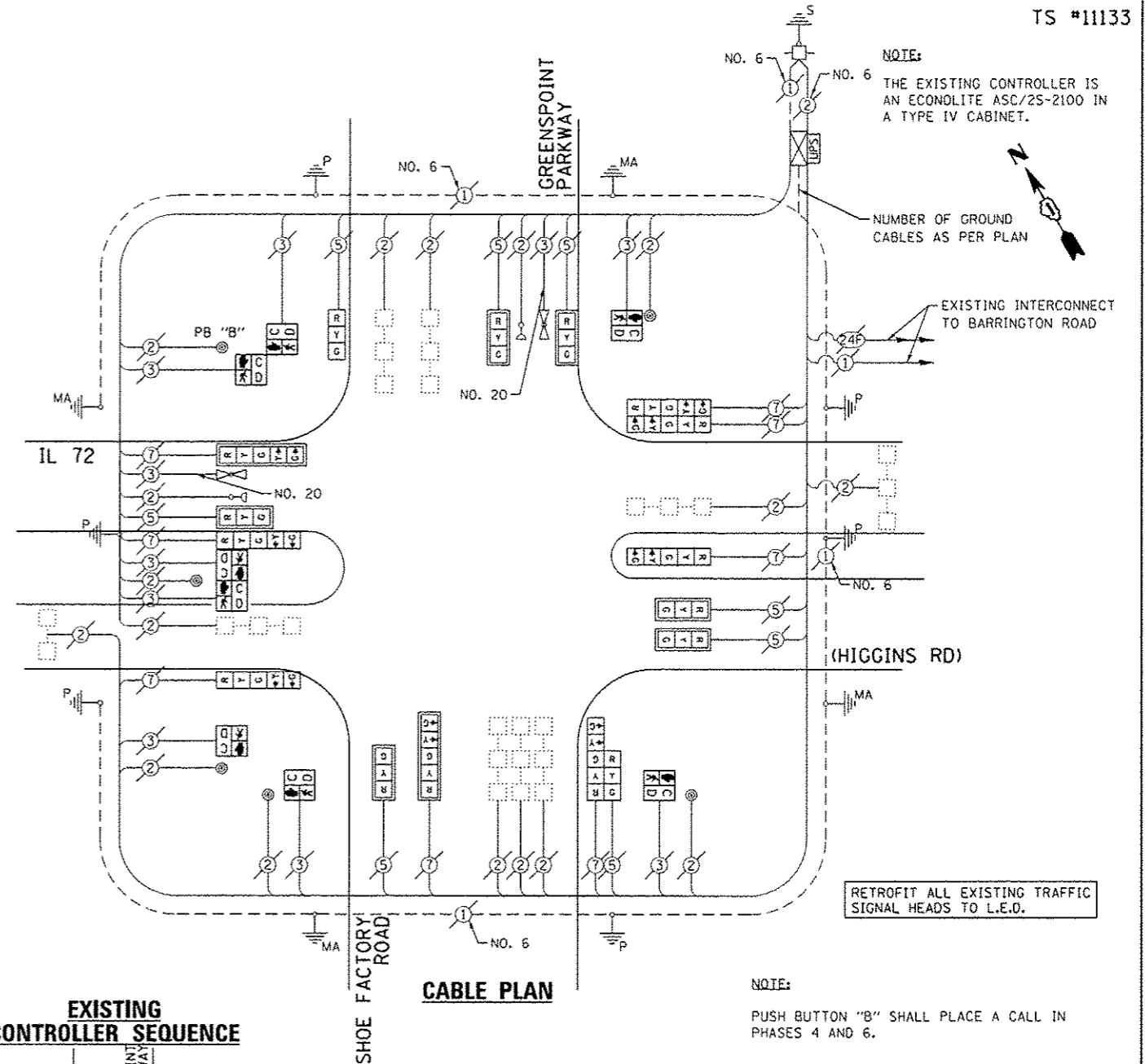
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT SEARS PARKWAY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	55
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT SHOE FACTORY ROAD / GREENS POINT PARKWAY

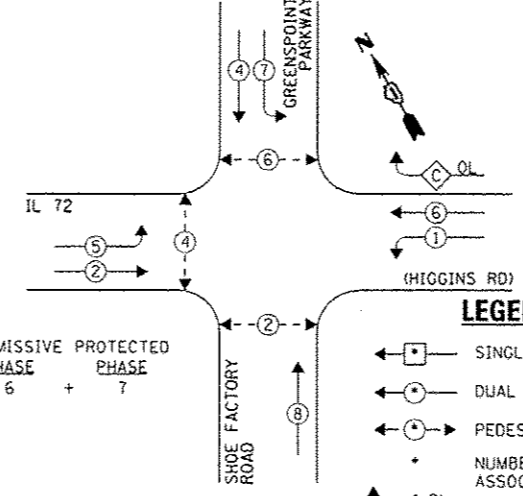
NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
8.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
9.	6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
10.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
11.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
12.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
12.	6	EACH	PEDESTRIAN PUSH BUTTON, NON-LATCHING



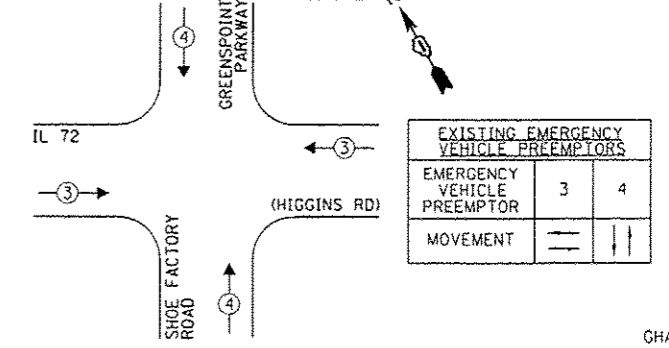
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	OPERATION		
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.25	60.0
ARROW	14	135	12	0.10	16.8
PEB. SIGNAL	6	90	25	1.00	150.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					587.8

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME	USER NAME	DESIGNED	REVISED
0168W38-057.dgn	zwallsten	JRD	-
Default		CW3	-
		KL8	-
		05/10/13	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

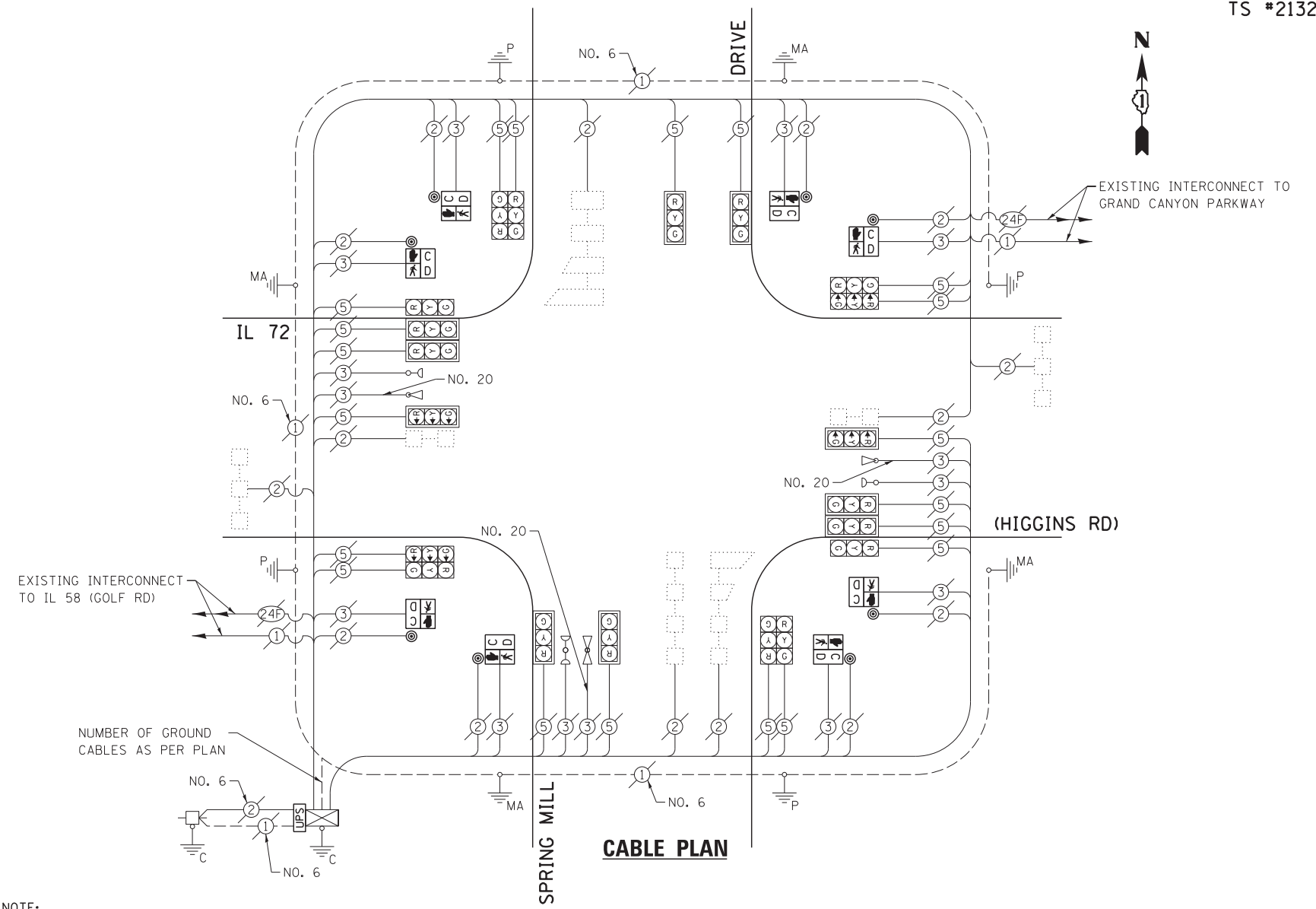
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT SHOE FACTORY ROAD / GREENS POINT PARKWAY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	56
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60W38

SCHEDULE OF QUANTITIES
IL 72 (HIGGINS RD) AT SPRING MILL ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	8	EACH	PEDESTRIAN PUSH-BUTTON
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



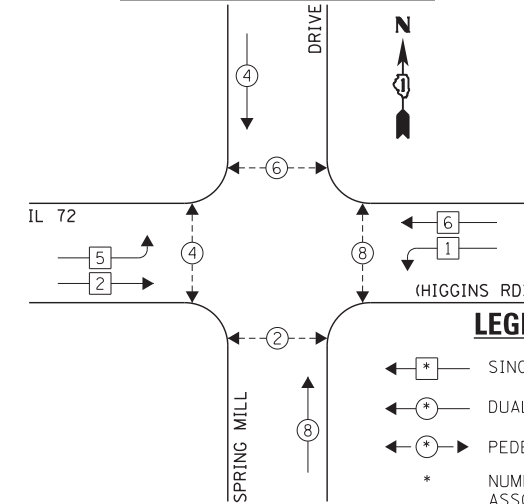
NOTE:

THE EXISTING LOCAL CONTROLLER IS AN ECONOLITE ASC/2S-1000 AND THE MASTER CONTROLLER IS AN ECONOLITE ASC/2M-1000, BOTH IN A TYPE V CABINET.

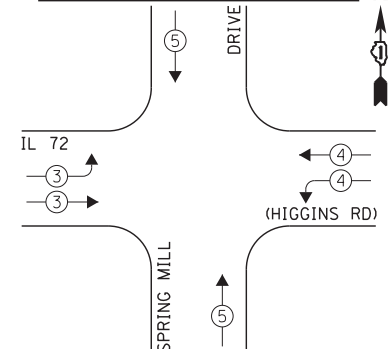
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * OL → OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↑↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE	OPERATION		
		INCAND.	L.E.D.		
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	-	135	12	0.10	-
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					695.0

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-058.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

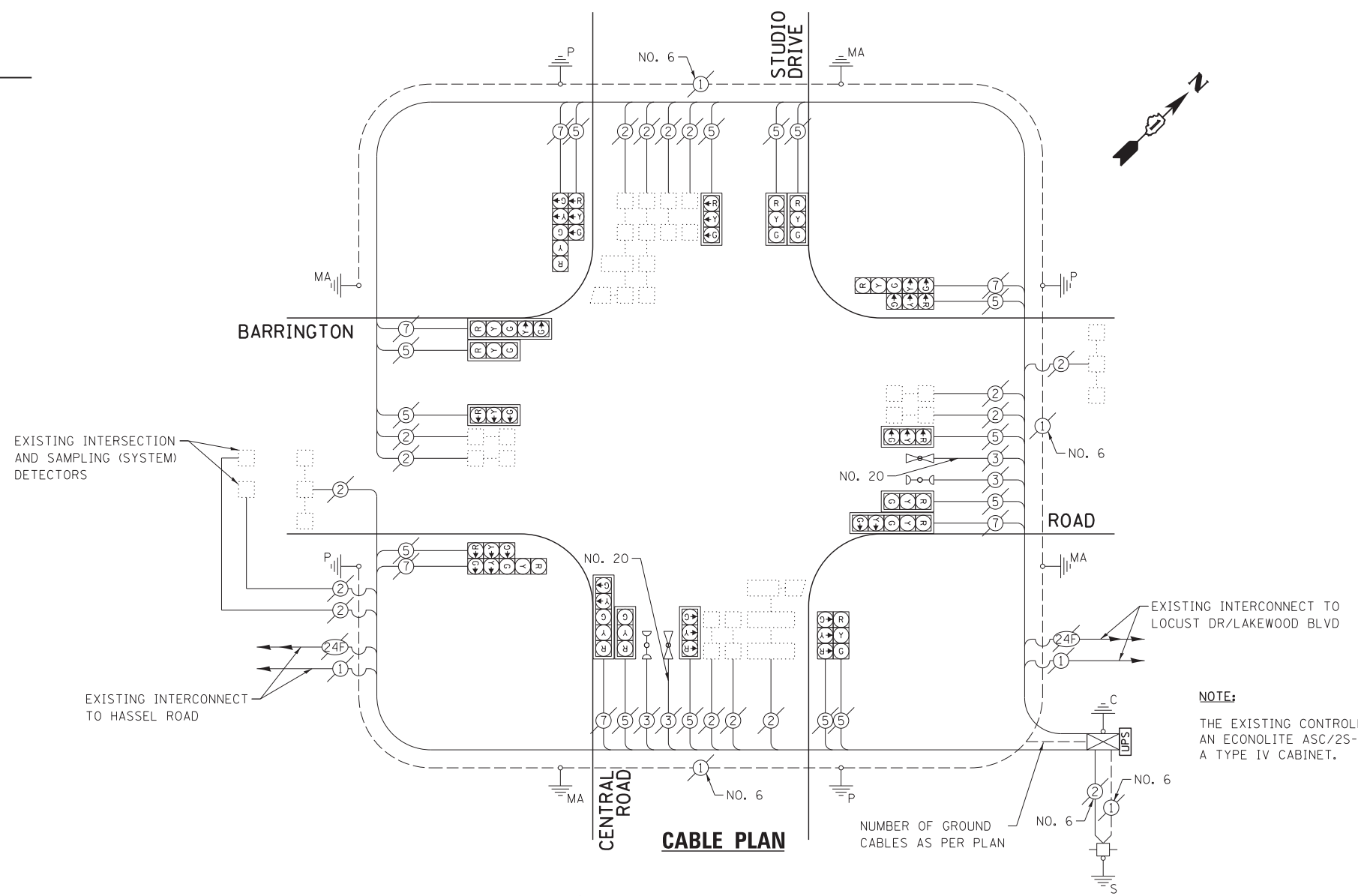
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 72 (HIGGINS RD) AT SPRING MILL ROAD

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	57
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

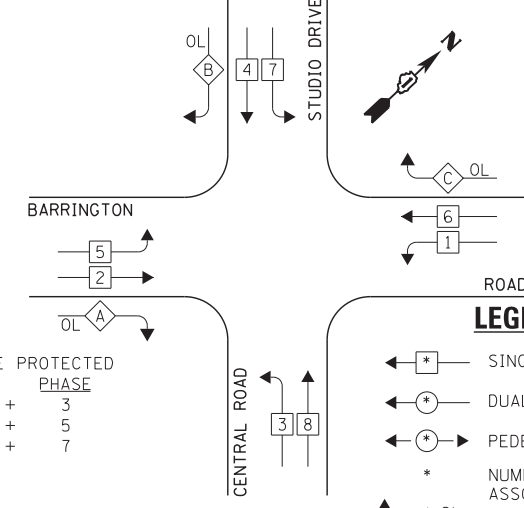
SCHEDULE OF QUANTITIES
BARRINGTON ROAD AT CENTRAL ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL



NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/25-1000 IN A TYPE IV CABINET.

EXISTING CONTROLLER SEQUENCE

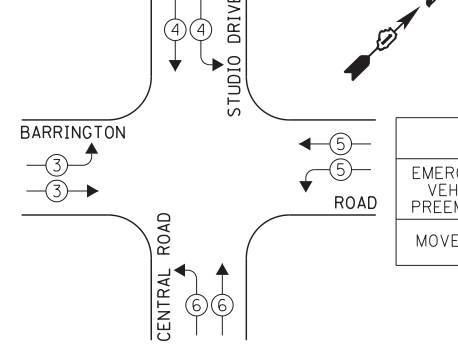


OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7

LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * → OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	↔	↔	↔	↔

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	12	135	12	0.10	14.4
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					509.4

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-059.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
BARRINGTON ROAD AT CENTRAL ROAD

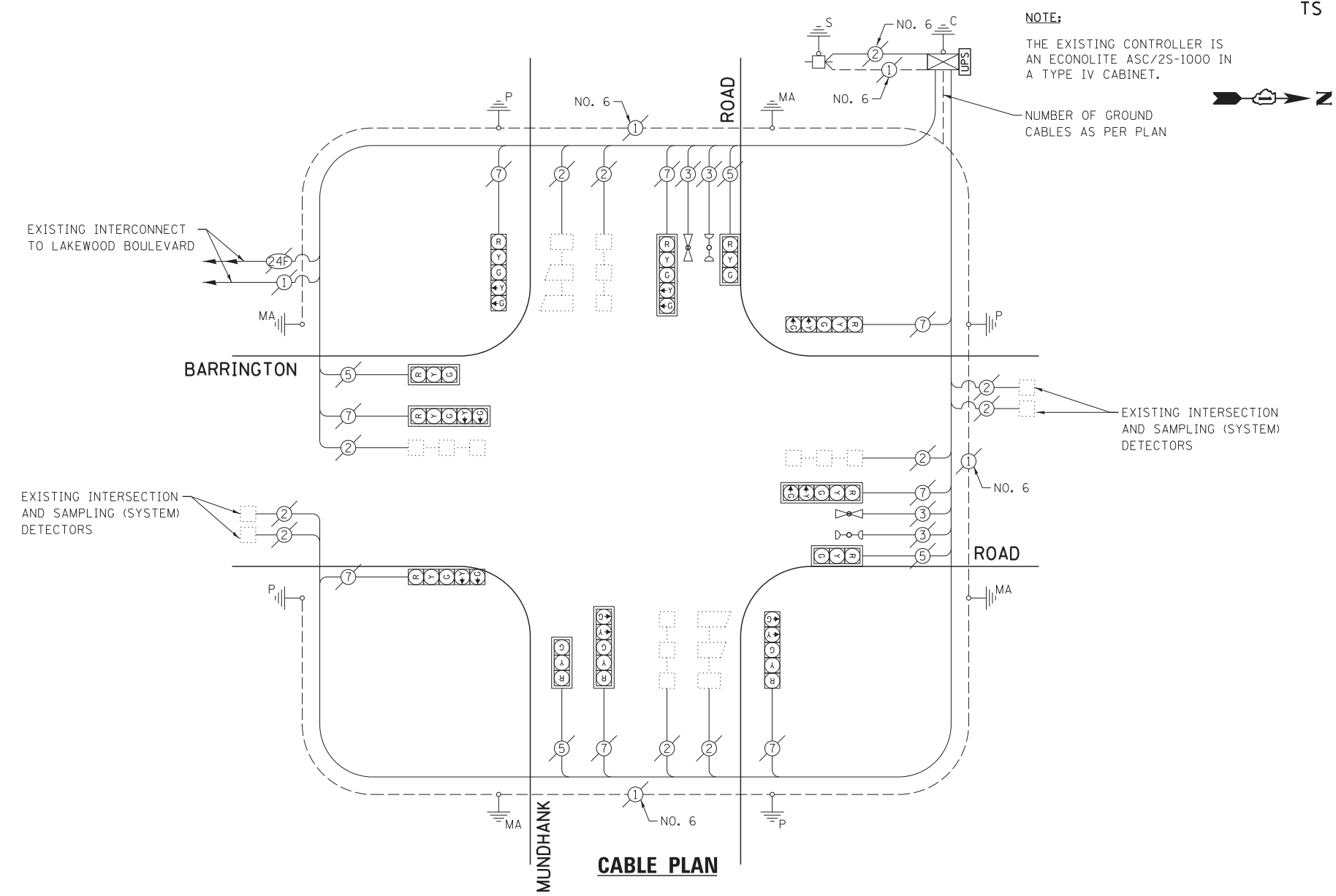
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	58
CONTRACT NO. 60W38				
ILLINOIS FED. AID PROJECT				

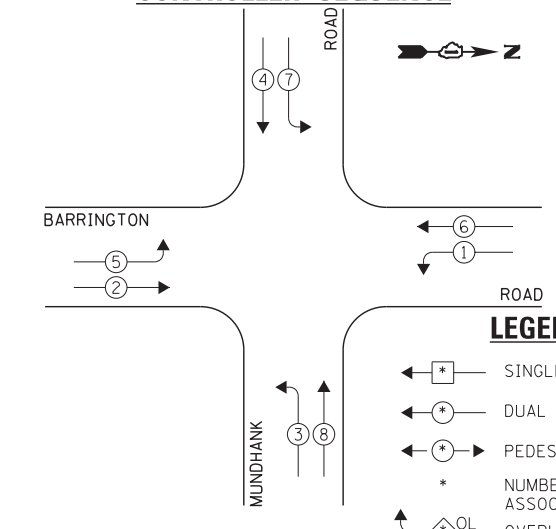
SCHEDULE OF QUANTITIES
BARRINGTON ROAD AT MUNDHANK ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
3.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2S-1000 IN A TYPE IV CABINET.

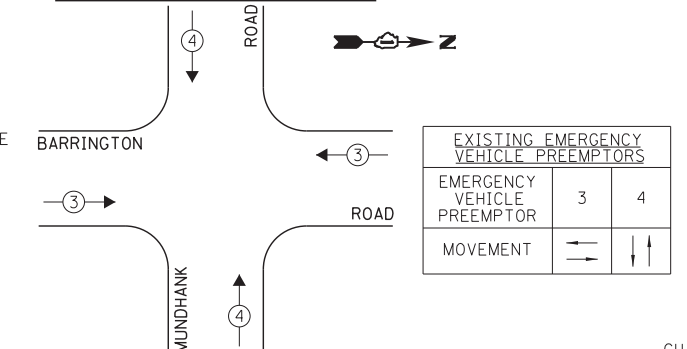


EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. L.E.D.	OPERATION	
SIGNAL (RED)	12	135 17	0.50	102.0
SIGNAL (YELLOW)	12	135 25	0.25	75.0
SIGNAL (GREEN)	12	135 15	0.25	45.0
ARROW	16	135 12	0.10	19.2
PED. SIGNAL	-	90 25	1.00	-
CONTROLLER	1	- 100	1.00	100.0
LUMINAIRE	-	- 250	0.50	-
L.E.D. ST. NAME SIGN	-	- 64	0.50	-
VIDEO SYSTEM	-	- 150	1.00	-
BATTERY BACKUP	1	- 25	1.00	25.0
ILLUMINATED SIGN	-	- 25	0.05	-
TOTAL =				366.2

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

FILE NAME = D160W38-060.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

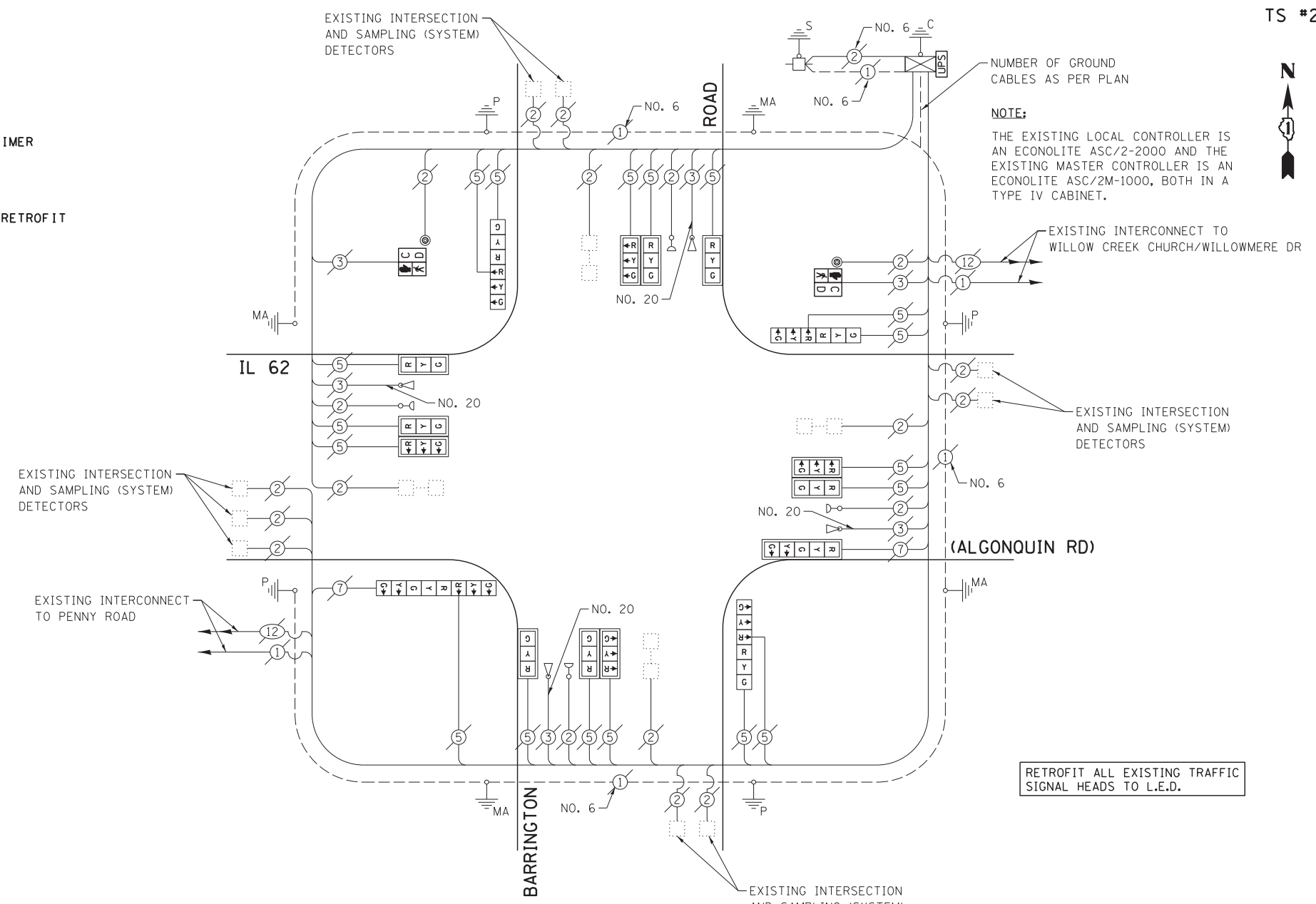
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
BARRINGTON ROAD AT MUNDHANK ROAD

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	59
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 62 (ALGONQUIN RD) AT BARRINGTON ROAD

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	2	EACH	PEDESTRIAN PUSH-BUTTON
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
8.	11	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
9.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
10.	3	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT



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

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

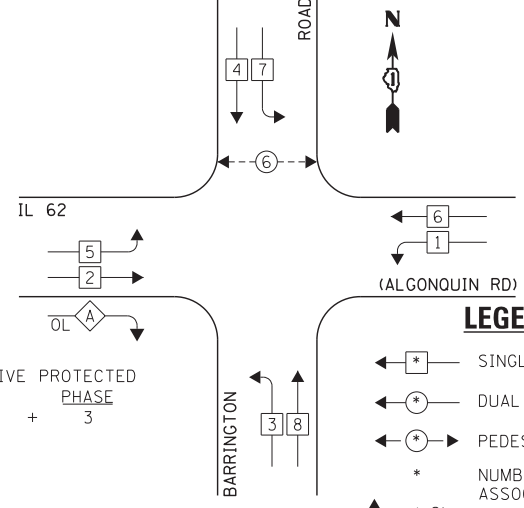
RETROFIT ALL EXISTING TRAFFIC SIGNAL HEADS TO L.E.D.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
SIGNAL (YELLOW)	20	135	25	0.25	125.0
SIGNAL (GREEN)	20	135	15	0.25	75.0
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					549.8

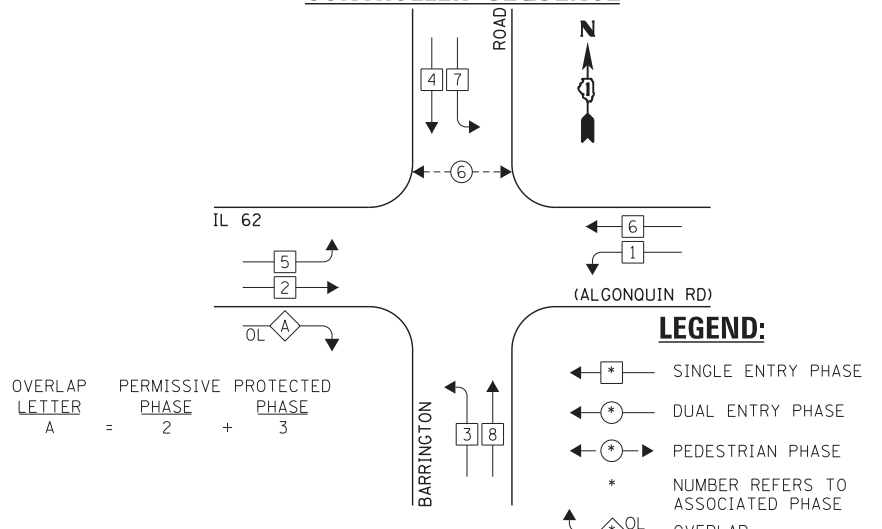
ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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

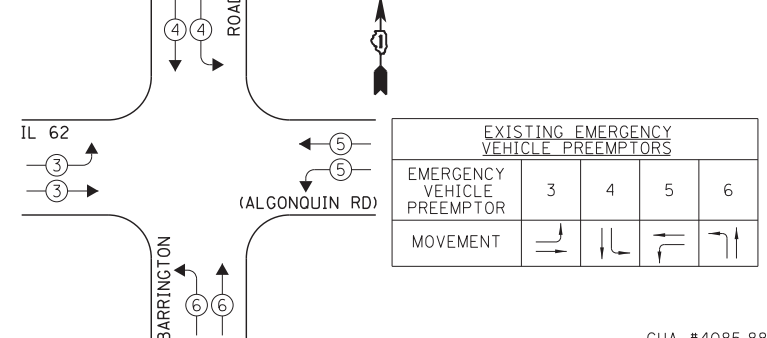
EXISTING CONTROLLER SEQUENCE



CABLE PLAN



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 62 (ALGONQUIN RD) AT BARRINGTON ROAD

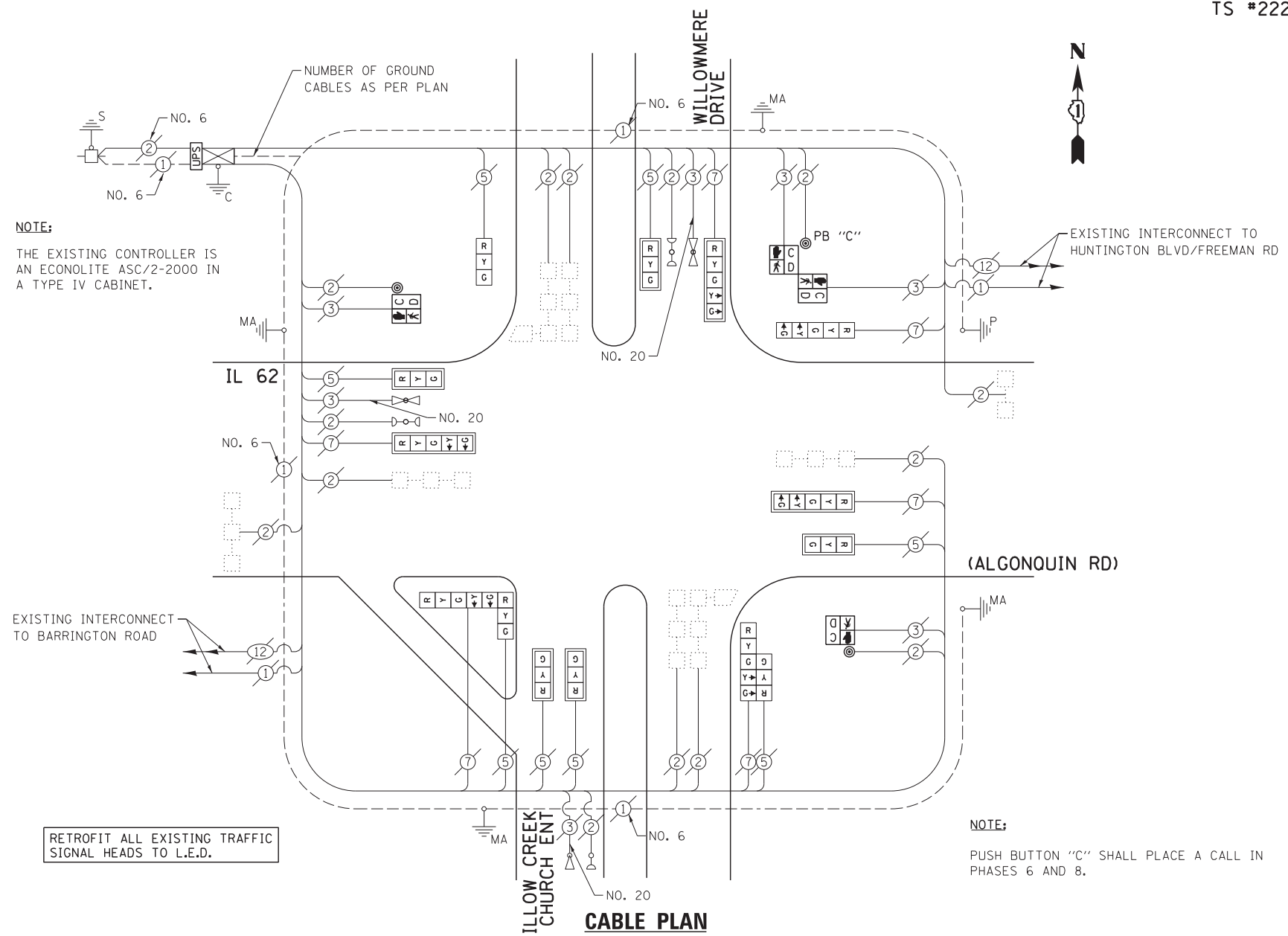
FILE NAME = D160W38-061.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	60
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 62 (ALGONQUIN RD) AT WILLOW CREEK CHURCH / WILLOWMERE DRIVE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
7.	2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
8.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
9.	5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
10.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
11.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
12.	3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING



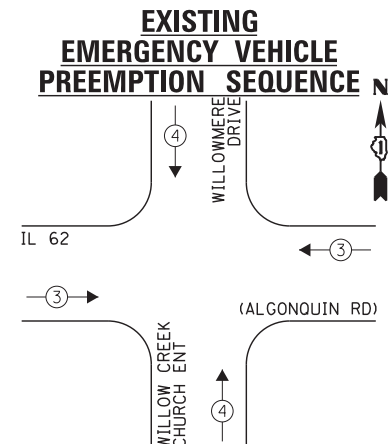
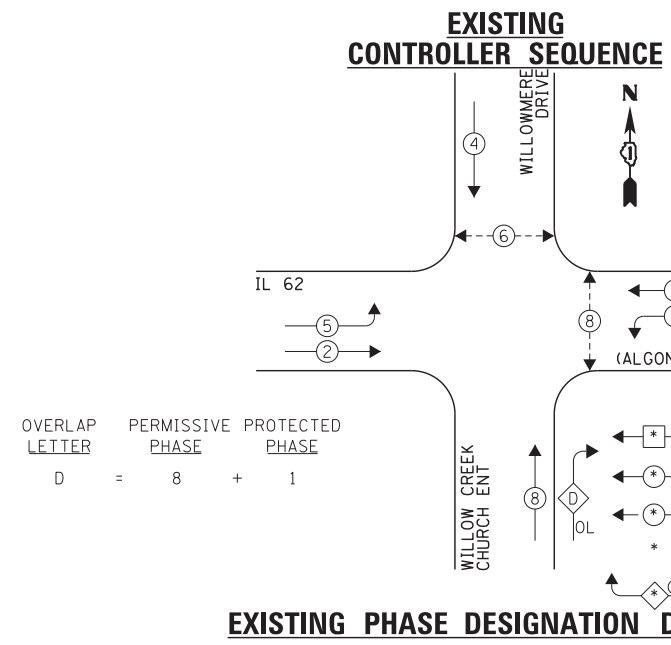
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
SIGNAL (YELLOW)	14	135	25	0.25	87.5
SIGNAL (GREEN)	14	135	15	0.25	52.5
ARROW	12	135	12	0.10	14.4
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					498.4

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION
(ADDRESS) 201 W. CENTER COURT
(ADDRESS) SCHALMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT
PHONE: 630-437-2129
COMPANY: COMED - OAKBROOK TERRACE

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



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑

FILE NAME = D160W38-062.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 62 (ALGONQUIN RD) AT WILLOW CREEK CHURCH / WILLOWMERE DRIVE
SCALE: SHEET OF SHEETS STA. TO STA.

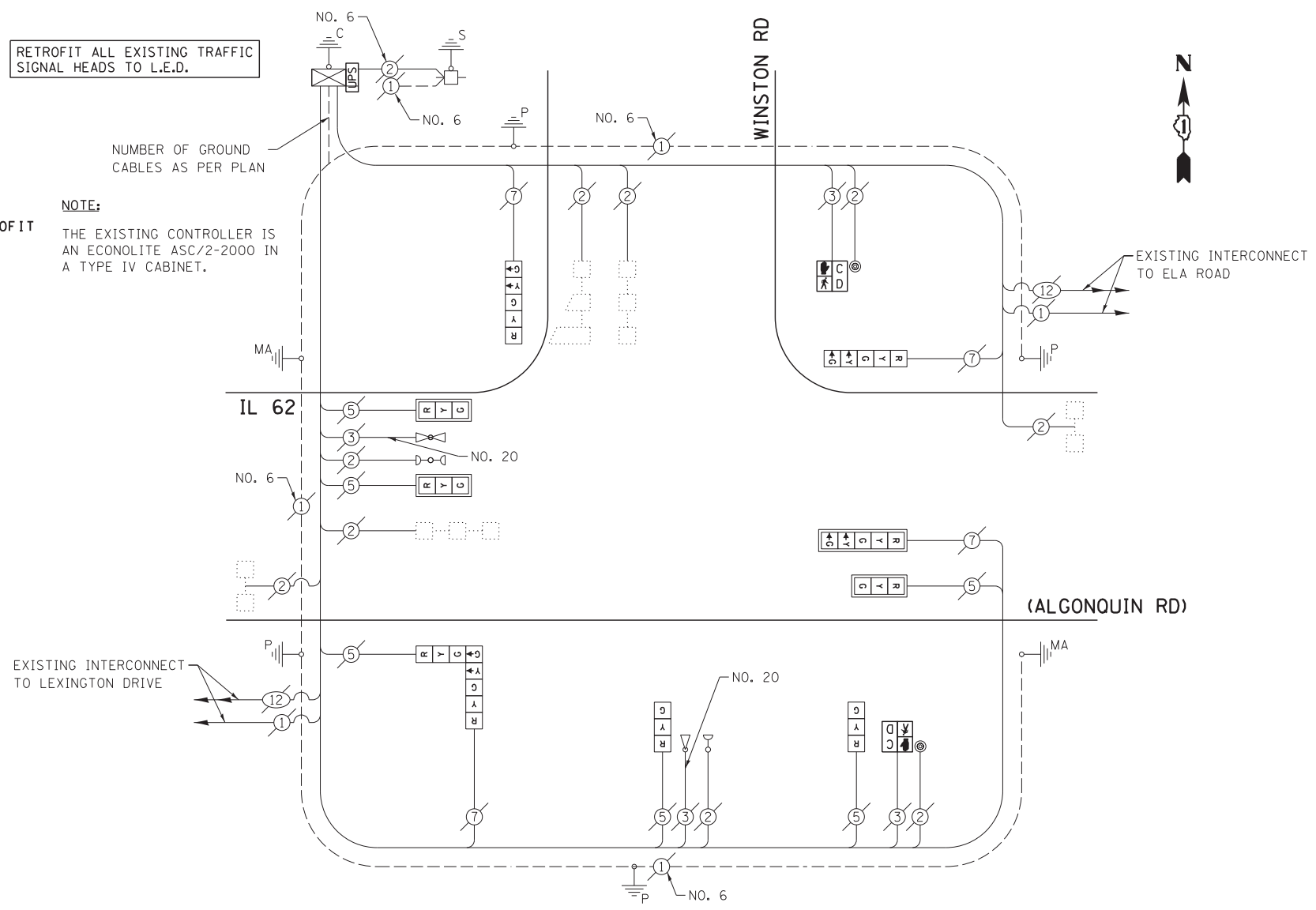
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	61
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES
IL 62 (ALGONQUIN RD) AT WINSTON DRIVE

NO.	QUANT.	UNIT	DESCRIPTION
1.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2.	2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3.	2	EACH	PEDESTRIAN PUSH-BUTTON
4.	1	EACH	MODIFY EXISTING CONTROLLER CABINET
5.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
7.	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
8.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
9.	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
10.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
11.	2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

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

NOTE:
THE EXISTING CONTROLLER IS AN ECONOLITE ASC/2-2000 IN A TYPE IV CABINET.

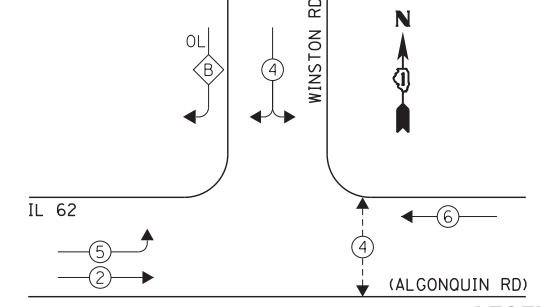


CABLE PLAN

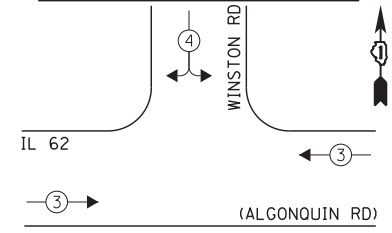
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

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

EXISTING CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- ← * → SINGLE ENTRY PHASE
- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- ← * OL → OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	← → ↗ ↘

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	INCAND.	L.E.D.	OPERATION	
SIGNAL (RED)	10	135	17	0.50	85.0
SIGNAL (YELLOW)	10	135	25	0.25	62.5
SIGNAL (GREEN)	10	135	15	0.25	37.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	2	90	25	1.00	50.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					371.6

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

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION (ADDRESS) 201 W. CENTER COURT (ADDRESS) SCHAMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT: DAVE SCHACHT (PHONE) 630-437-2129 (COMPANY) COMED - OAKBROOK TERRACE

FILE NAME = D160W38-063.dgn	USER NAME = gwhitten	DESIGNED - JRD	REVISED -
Default	PLOT SCALE = 1:20	DRAWN - GW3	REVISED -
	PLOT DATE = 5/9/2013	CHECKED - KLB	REVISED -
		DATE - 05/10/13	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL 62 (ALGONQUIN RD) AT WINSTON DRIVE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-007 TS	COOK	62	62
			CONTRACT NO. 60W38	
ILLINOIS FED. AID PROJECT				