

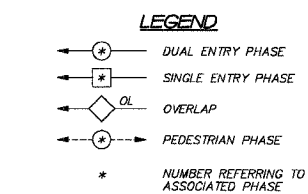
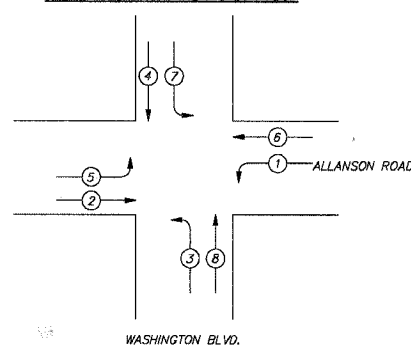
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	30
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
CONTRACT NO. 83890				

CABLE PLAN

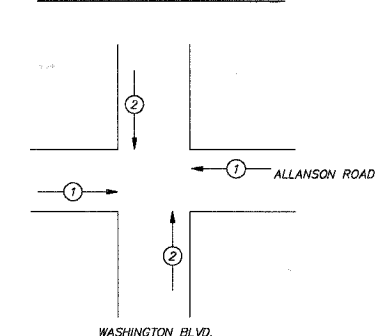
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITIES
REMOVE EXISTING CONCRETE FOUNDATIONS	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	928
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
DETECTOR LOOP REPLACEMENT	FOOT	221
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	15
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	2
LIGHT DETECTOR	EACH	2
RELOCATE SIGN PANEL ASSEMBLY, TYPE A	EACH	1
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	50
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	FOOT	300
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C	FOOT	300
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	FOOT	300
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED, SHIELDED	FOOT	300
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1/C	FOOT	300
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	5

EXISTING CONTROLLER SEQUENCE



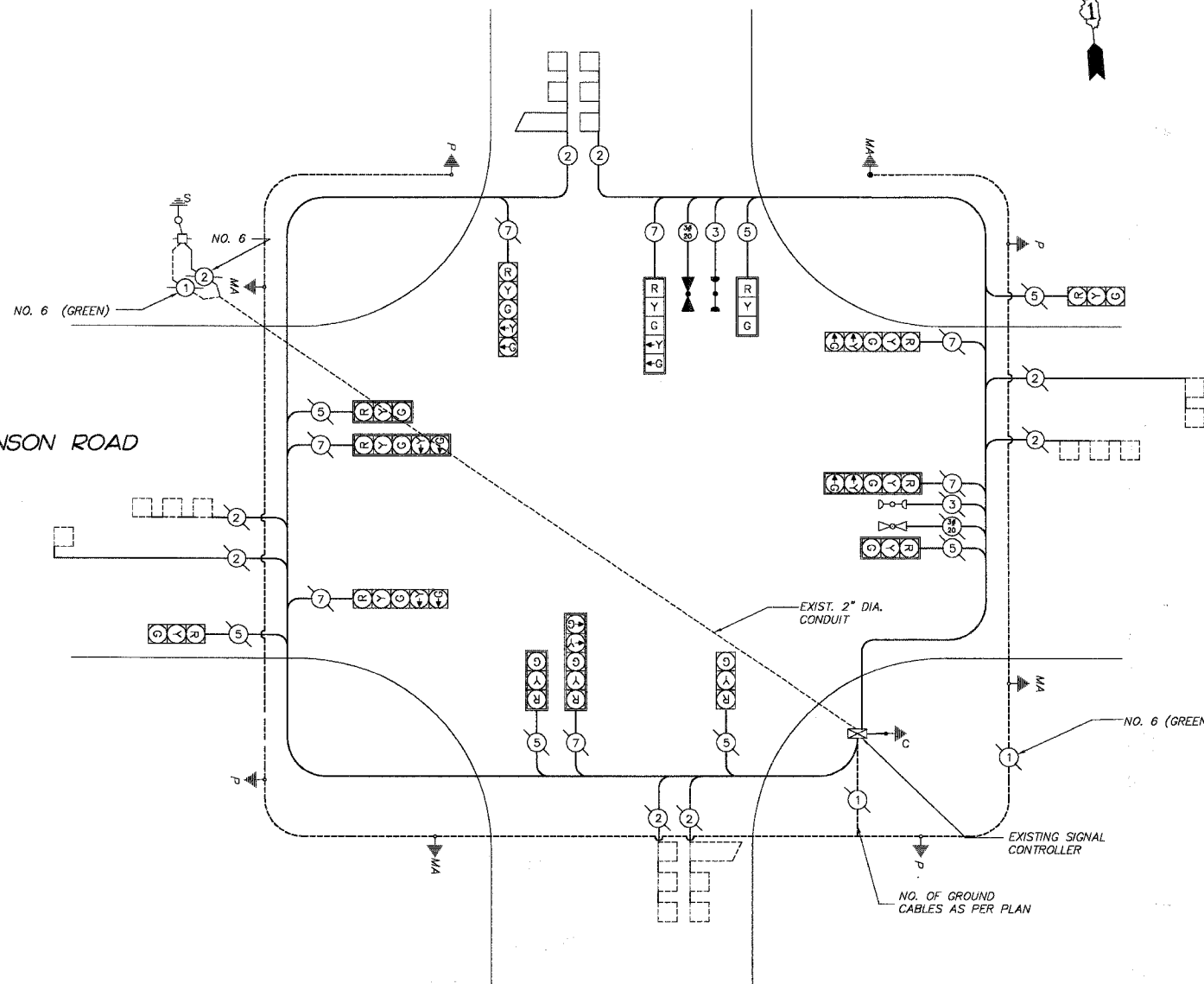
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	→	↑

ALLANSON ROAD

WASHINGTON BLVD.



CABLE PLAN LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		%OPERATION	
SIGNAL (RED)	14	135	17	0.50	827
(YELLOW)	14	135	25	0.25	417.5
(GREEN)	14	135	15	0.25	412.5
ARROW (YELLOW)	7	135	12	0.10	82.2
(GREEN)	7	135	12	0.10	82.2
CONTROLLER	1	100	100	1.00	100.0
TOTAL =					1,921.4

ENERGY COST - BILLED TO : VILLAGE OF MUNDELEIN
 (ADDRESS) 440 E. HAWLEY STREET
 MUNDELEIN, IL 60060

ENERGY SUPPLY - CONTACT : MS. LUCY ANDERBERG
 PHONE: (847) 816-5254
 COMPANY: COM - ED

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
E - MAST ARM POLE		SIGNAL POST	2 (1.0)		(8m+L-0.6m)=
30" (750mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

REVISIONS	
NAME	DATE
7.	
6.	
5.	
4.	
3.	
2.	
1.	

SMITH ENGINEERING CONSULTANTS, INC.
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS
 4500 PRINCE PARKWAY, SUITE 201
 McHENRY, ILLINOIS 60050
 PH: 815-385-1776 FAX: 815-385-1701
 www.smithengineering.com E-MAIL: sec@smithengineering.com
 McHENRY HUNTLEY YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 CABLE PLAN AND
 PHASE DESIGNATION DIAGRAM

SCALE: "NTS"
 DATE 11-15-06

DRAWN BY JSt
 CHECKED BY CFR