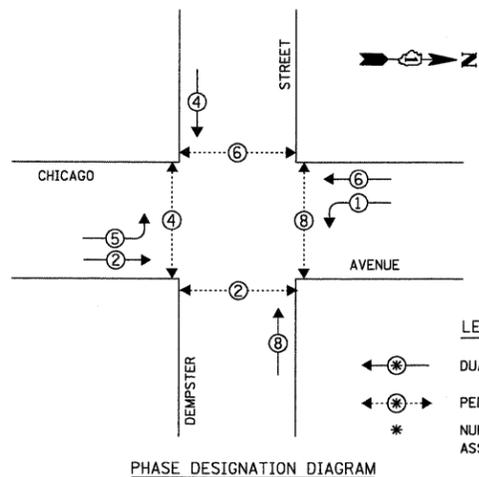


DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 PLAN: _____ NOTE BOOK: _____
 NO. _____ RT. OF MAY CHECKED: _____
 CAD FILE NAME: _____

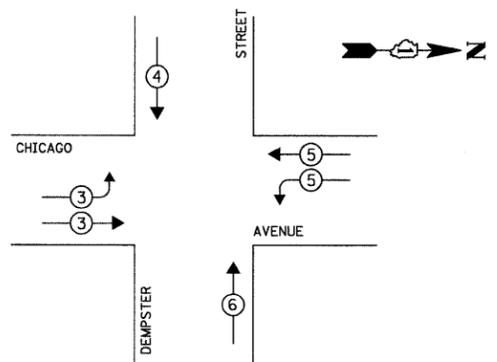
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 PROFILE: _____ NOTE BOOK: _____
 NO. _____ STRUCTURE NOTATION: _____

CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE

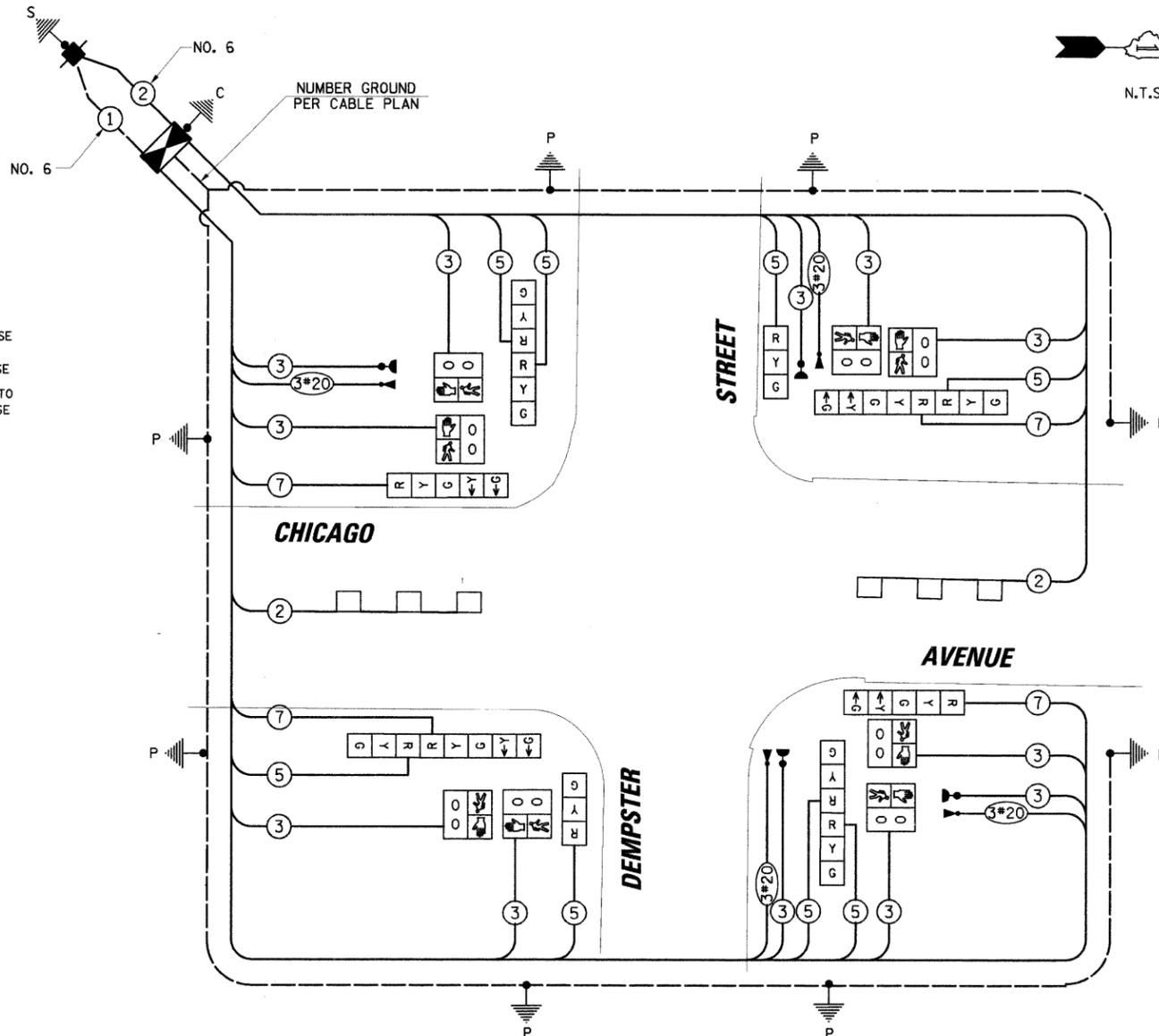


PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	→	↓	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND.	LED % X OPERATION		
SIGNAL (RED)	12	17	0.50		102.00
(YELLOW)	12	25	0.25		75.00
(GREEN)	12	15	0.25		45.00
ARROW	8	12	0.10		9.60
PED. SIGNAL	8	25	1.00		200.00
CONTROLLER	1	100	1.00		100.00
ILLUM. SIGN	-	25	0.05		-
FLASHER			0.50		

ENERGY COSTS TO: TOTAL = 531.60

CITY OF EVANSTON
 2100 RIDGE AVENUE
 EVANSTON, ILLINOIS 60201-2798
 ENERGY SUPPLY: CONTACT: LARRY SHANK
 PHONE: (847) 816-5465
 COMPANY: COMED



NOTE:
 PEDESTRIAN PHASES 2, 4, 6 AND 8 SHALL BE ON RECALL.

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, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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 - M. ARM POLE	2 (1.0)	SIGNAL POST	2 (1.0)	(6m+L-0.6m)=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	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)

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

CABLE PLAN LEGEND

EXISTING	PROPOSED	8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS.
		ALL CABLE NO. 14 EXCEPT AS INDICATED.
		ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		GROUND CABLE IN CONDUIT
		NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT
		NO. 62.5/125 2-MM12F SM12F
		SIGNAL FACE WITH BACKPLATE.
		"P" INDICATES PROGRAMMED HEAD.
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
EXPLORATION TRENCH, SPECIAL	EACH	4
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1717
DETECTABLE WARNINGS	SQ FT	146
SIDEWALK REMOVAL	SQ FT	1717
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	121
SIGN PANEL - TYPE 1	SQ FT	7.5
THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	109.2
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1094
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	657
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	103
THERMOPLASTIC PAVEMENT MARKING REMOVAL	SQ FT	109.2
THERMOPLASTIC PAVEMENT MARKING REMOVAL	FOOT	1788
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	142
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	213
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	186
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	260
FULL-ACTUATED CONTROLLER AND TYPE III CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1689
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1138
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	503
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PR	FOOT	208
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	234
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE D	FOOT	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	2
DETECTOR LOOP, TYPE I	FOOT	278
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION, SPECIAL	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C	FOOT	697
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	1138