

CABLE PLAN LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	CONTRACT # 62880
				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 CONNECTION
				MAGNETIC DETECTOR
				EMERGENCY VEHICLE LIGHT DETECTOR
				CONFIRMATION BEACON
				PUSHBUTTON DETECTOR
				VEHICLE DETECTOR, INDUCTION LOOP
				PD DENOTES PREFORMED DETECTOR LOOP
				DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.

SCHEDULE OF QUANTITIES

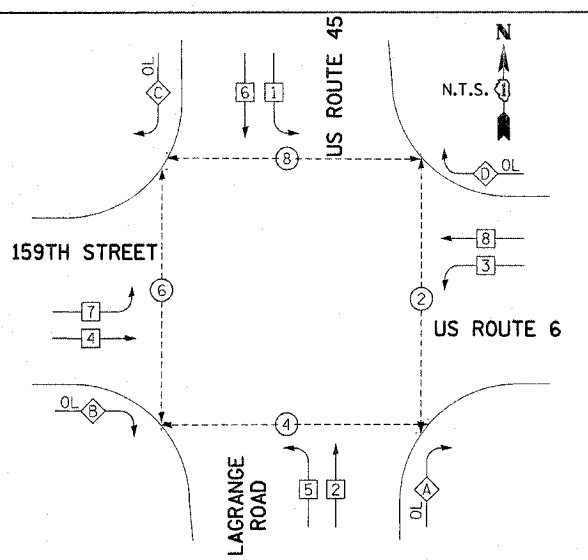
SIGN PANEL - TYPE 1	50 FT	40
SIGN PANEL - TYPE 2	50 FT	120
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	937
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	61
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	53
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	447
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	624
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1056
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1050
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2920
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3050
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2359
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3997
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	46
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	3
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	45
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	71
TRAFFIC SIGNAL BACKPLATE	EACH	20
INDUCTIVE LOOP DETECTOR	EACH	14
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	5
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	12
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	748
PREFORMED DETECTOR LOOP	FOOT	1244
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1188
SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	15
SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	2

PHASE DIAGRAM LEGEND

	DUAL ENTRY PHASE
	SINGLE ENTRY PHASE
	PEDESTRIAN PHASE
	NUMBER REFERS TO ASSOCIATED PHASE
	RIGHT TURN OVERLAP:
	OVERLAP LETTER
A	2 + 3
B	4 + 5
C	6 + 7
D	8 + 1

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

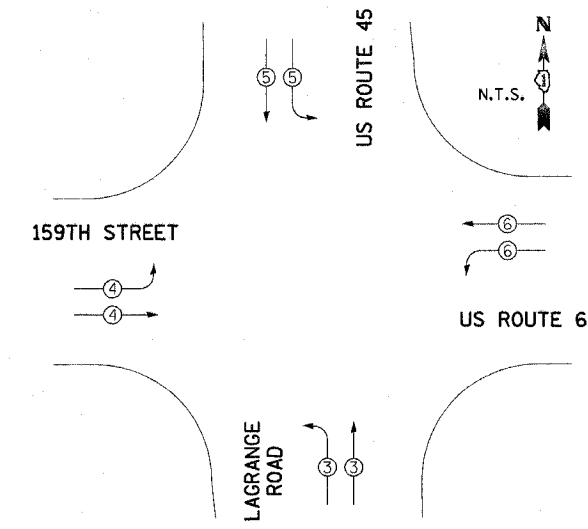
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTORS	3	4	5	6
MOVEMENT				

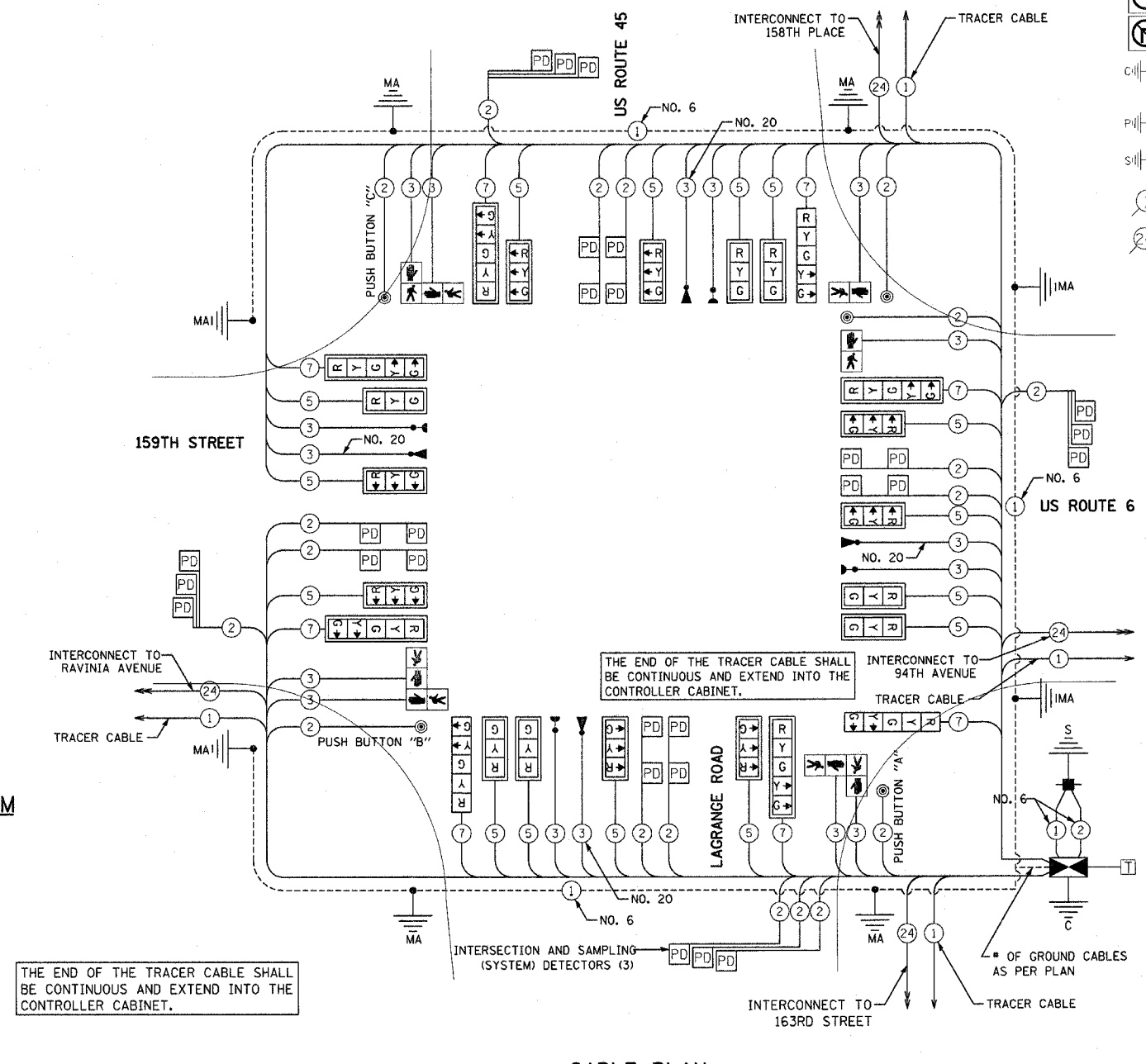


EMERGENCY VEHICLE PREEMPTION DIAGRAM

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

TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	23	135	0.50	195.5
(YELLOW)	23	135	0.25	143.75
(GREEN)	23	135	0.25	86.25
ARROW	16	135	0.10	19.2
PED. SIGNAL	8	90	1.00	200.0
CONTROLLER	1	100	1.00	100.0
ILLUM. SIGN	0	84	0.05	0.0
FLASHER	0	25	0.50	0.0
ENERGY COST TO:			TOTAL =	744.7

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: NILES K. AKBAR
 PHONE: (708) 235-2338
 COMPANY: COMMONWEALTH EDISON



CABLE PLAN

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)
TYPE D-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L= (6m+L)=
30", TYPE E	15 (4.6)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
36", TYPE E	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PEDEST. PUSHBUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

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

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)
 US 45 (LAGRANGE ROAD)
 AND US 6 (159TH STREET)
 CABLE PLAN
 SCALE: N.T.S.
 DATE: 7-07-06
 DRAWN BY: MJT
 DESIGNED BY: MJT
 CHECKED BY: NKU
McDonough Associates Inc.
 Engineers / Architects