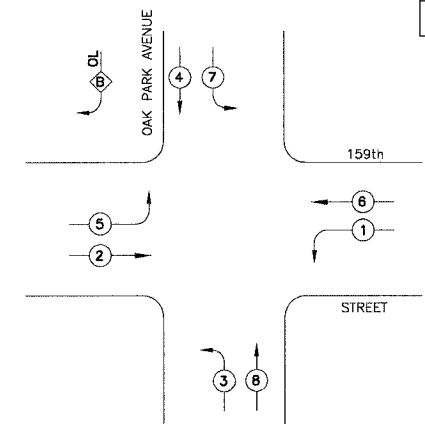


CABLE DIAGRAM

NOTE: ALL LOOPS SHOWN ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED

CONTROLLER SEQUENCE



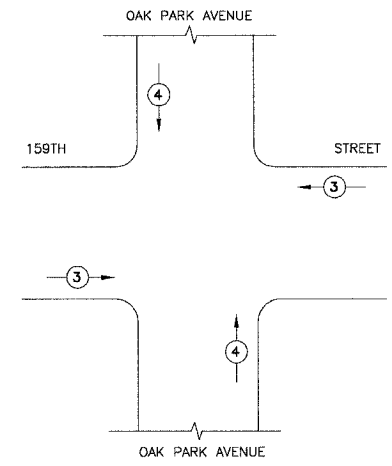
PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
B	= 4	+ 5	- 4

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		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.
		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"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION



EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTORS	3 4
MOVEMENT	→ ↑

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	9
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	194
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	9
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	75
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	211
HANDHOLE	EACH	2
HEAVY DUTY HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	203
MAINTAINANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	510
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1157
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1138
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	15
DRILL EXISTING HANDHOLE	EACH	3
SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	293
TEMPERARY TRAFFIC SIGNAL INSTALLATION	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1805
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 38 FT. AND 26 FT.	EACH	1

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'+L-2"
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED	13
24"	10"	CONTROLLER CAB.	6	PED. PUSHBUTTON	4
30"	15	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	INCAND. WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	135	0.50	877.50
(YELLOW)	13	135	0.25	438.75
(GREEN)	13	135	0.25	438.75
ARROW	10	135	0.10	135
PED. SIGNAL	-	90	1.00	-
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	-	-	0.50	-
TOTAL =				1990

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06
NJP	5-19-06

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL CABLE AND PHASE DESIGNATION DIAGRAM OAK PARK AVENUE AT 159th STREET

SCALE: NONE DATE: 6-1-04

DRAWN BY: UKB DESIGNED BY: RWL CHECKED BY: RWL

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 Plotted: 6-06-06 @ 2:36pm By: 354n.p
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