



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	135	17	0.50	136.00
(YELLOW)	16	135	25	0.25	100.00
(GREEN)	16	135	15	0.25	60.00
ARROW	12	135	12	0.10	14.40
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	---	252	25	0.05	---
CONFIRM BEACON	4	150	---	0.05	30.00
FLASHER				0.50	
TOTAL =					640.40

ENERGY COSTS TO: TOTAL = 640.40

COOK COUNTY HIGHWAY DEPARTMENT
 69 WEST WASHINGTON STREET
 CHICAGO, ILLINOIS 60602

ENERGY SUPPLY: CONTACT: RICK GROOMES
 PHONE: 847-816-5271
 COMPANY: COMMONWEALTH EDISON

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'HL-2"=
C - M. ARM POLE		SIGNAL POST	2 (1.0)	(6mHL-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)
		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)

CONSTRUCTION NOTES:
 ① RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

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

FIBER OPTIC CABLE 62.5/125 12F MULTIMODE 12F SINGLE MODE
 INTERCONNECT TO KNOLLWOOD DRIVE

FIBER OPTIC CABLE 62.5/125 12F MULTIMODE 12F SINGLE MODE
 INTERCONNECT TO SPRINGSGUTH ROAD

TRACER CABLE

TRACER CABLE

SCHAUMBURG

WALNUT

CABLE PLAN

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

CABLE PLAN LEGEND

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
② DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.	① GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)	②④ 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	"R" RELOCATED
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SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
SIGN PANEL - TYPE 1	SO FT	15
SIGN PANEL - TYPE 2	SO FT	30
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	643
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	163
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	256
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	64
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	28
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	191
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1062
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	899
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1702
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2184
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1112
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1-PAIR	FOOT	2631
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	35
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	829
ELECTRIC CABLE IN CONDUIT NO. 20 3C, TWISTED, SHIELDED	FOOT	399
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.,	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.,	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60
DRILL EXISTING HANDHOLE	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	11
DETECTOR LOOP, TYPE I	FOOT	780
PEDESTRIAN PUSH-BUTTON	EACH	5
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	3
SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	3
SERVICE INSTALLATION, POLE MOUNT	EACH	1
MEDIAN REMOVAL AND REPLACEMENT	SO FT	272