

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	6
INDUCTIVE LOOP DETECTOR	EACH	5
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
SIGN PANEL - TYPE 1	SQ M	2.09
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	182
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	34
CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	11
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	59
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	237
DETECTOR LOOP, PREFORMED	METER	201
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	190
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	418
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	317
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	205
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	308
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	METER	40
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 7.92 METER	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 14.02 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	2.4
CONCRETE FOUNDATION, TYPE D	METER	1.2
CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	9.2
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	METER	177
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 20 3C, TWISTED, SHIELDED	METER	120
SERVICE INSTALLATION, POLE MOUNT	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED	EACH	2
PAINT NEW MAST ARM POLE, UNDER 12.19 METERS	EACH	2
PAINT NEW MAST ARM POLE, 12.19 METERS AND OVER	EACH	1
PAINT NEW TRAFFIC SIGNAL POST	EACH	2
CONCRETE FOUNDATION, TYPE E 900MM DIAMETER	METER	4.6

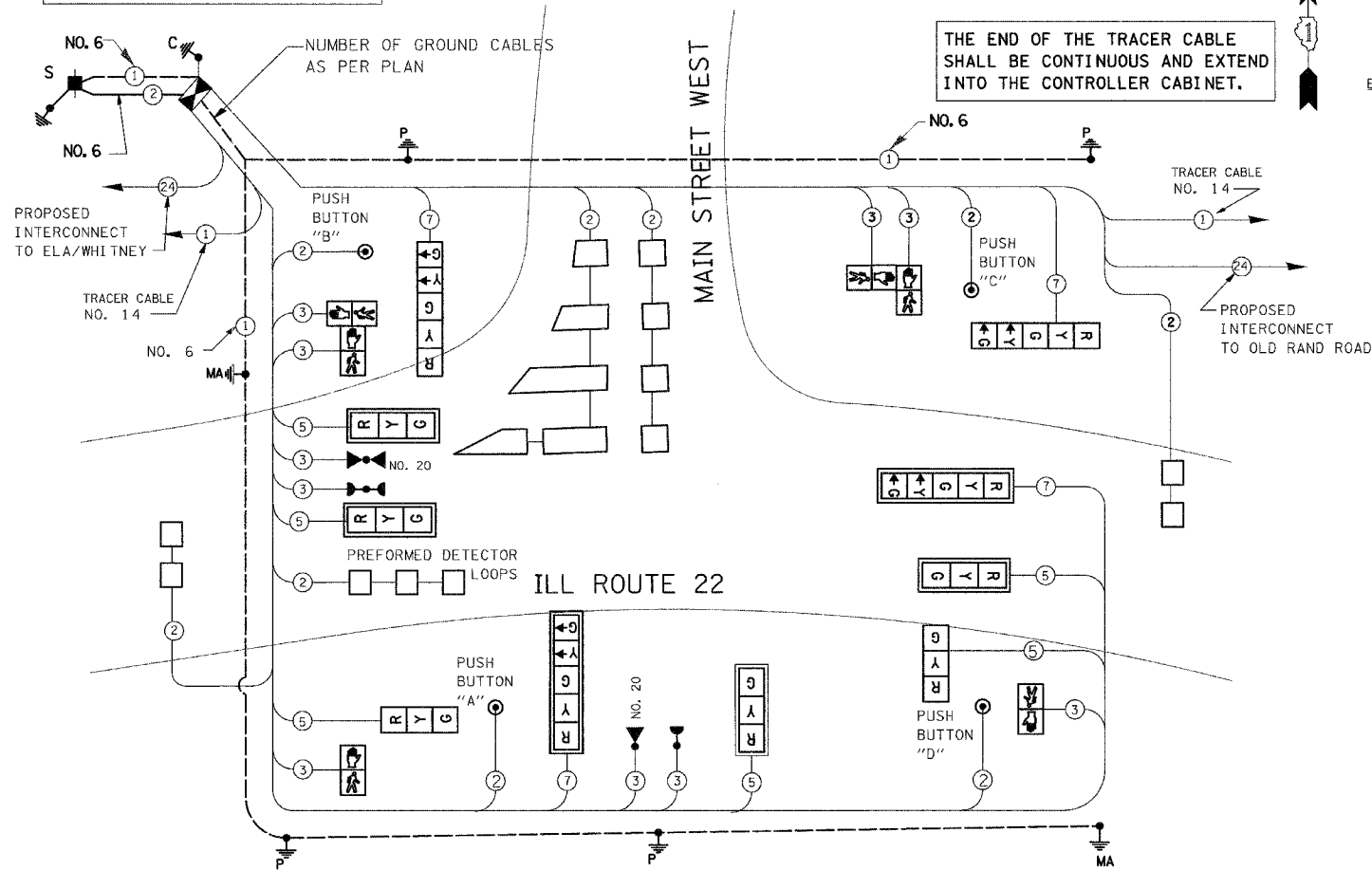
100% COST TO THE VILLAGE OF LAKE ZURICH

PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	% OPERATION	
SIGNAL (RED)	10	135	17	0.50	85.00
(YELLOW)	10	135	25	0.25	62.50
(GREEN)	10	135	15	0.25	37.50
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	6	90	25	1.00	150.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	0	84		0.05	
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	444.6
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHALMBURG, ILLINOIS 60196-1096 CONTACT: TERI BLACK PHONE: (847) 816-5239 COMPANY: COM. EDISON					

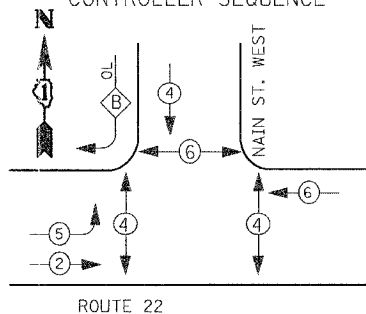
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±L-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m±L-0.6m)=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		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)

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



CABLE PLAN

CONTROLLER SEQUENCE



PUSH BUTTON "B" SHALL PLACE A CALL IN PHASE 6+4
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASE 6+4

LEGEND

- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTIVE PHASE
B	= 4	+ 5

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	19R-1	LAKE	800	516
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60997

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 CONNECTION
- MAGNETIC DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
- SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
- RAILROAD CONTROL CABINET
- ILLUMINATED SIGN, L.E.D. "NO LEFT TURN"
- ILLUMINATED SIGN, L.E.D. "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
- GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
- FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		
		SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL RTE 22 & MAIN STREET WEST	
		DRAWN BY VAP DESIGNED BY RAM CHECKED BY DDL	
		SCALE : N.T.S. DATE : 07/21/04	