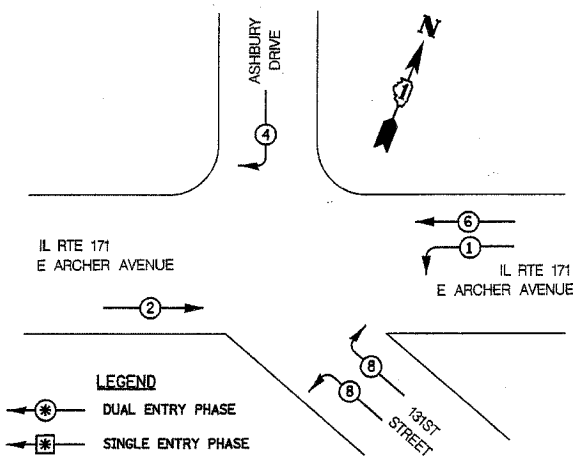


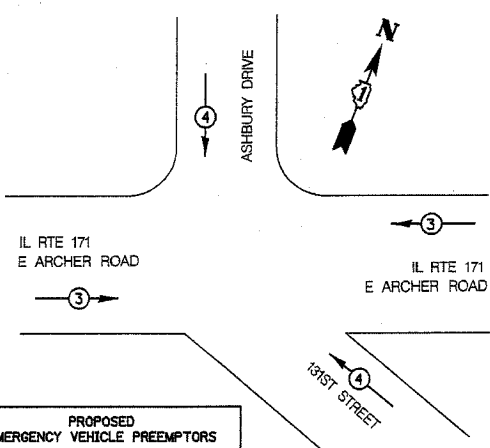
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
577	3114N-1	COOK	72	41
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60A25				

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE

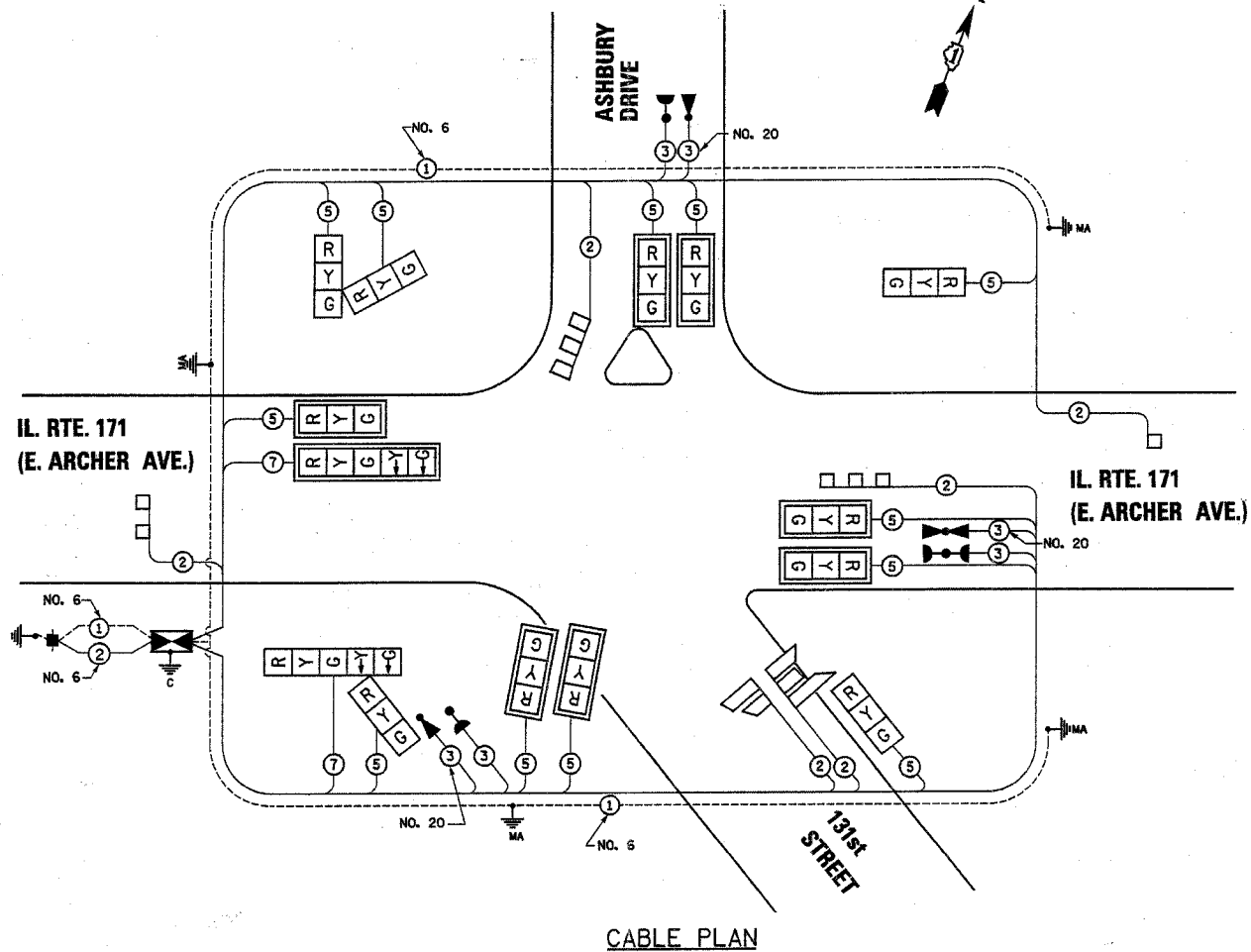


PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	← → ↑ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	X% OPERATION	
SIGNAL (RED)	14	135	17	0.50	119.0
(YELLOW)	14	135	25	0.25	87.5
(GREEN)	14	135	15	0.25	52.5
ARROW	4	135	12	0.10	4.8
CONTROLLER	1	100	100	1.00	100.0
TOTAL =					363.8

ENERGY COSTS - BILLED TO: VILLAGE OF LEMONT
 (ADDRESS) 418 MAIN STREET
 LEMONT, ILLINOIS 60439

ENERGY SUPPLY - CONTACT: DOLORES KREMNITZER
 PHONE: (815) 724-5241
 COMPANY: COMED



CABLE PLAN

CABLE PLAN LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
[Symbol]	[Symbol] 8" (200mm) TRAFFIC SIGNAL SECTION	[Symbol]	[Symbol] GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
[Symbol]	[Symbol] 12" (300mm) TRAFFIC SIGNAL SECTION	[Symbol]	[Symbol] FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SMI2F
[Symbol]	[Symbol] 12" (300mm) PEDESTRIAN SIGNAL SECTION	[Symbol]	[Symbol] SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
[Symbol]	[Symbol] 12" (300mm) PEDESTRIAN SIGNAL SECTION	[Symbol]	[Symbol] RAILROAD CONTROL CABINET
[Symbol]	[Symbol] CONTROLLER CABINET	[Symbol]	[Symbol] ILLUMINATED SIGN "NO LEFT TURN"
[Symbol]	[Symbol] SERVICE INSTALLATION	[Symbol]	[Symbol] ILLUMINATED SIGN "NO RIGHT TURN"
[Symbol]	[Symbol] TELEPHONE CONNECTION	[Symbol]	[Symbol] GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH), OR CONTROLLER (C)
[Symbol]	[Symbol] VEHICLE DETECTOR, INDUCTION LOOP	[Symbol]	[Symbol] GROUND ROD AT POST (P), OR MAST ARM POLE (MA)
[Symbol]	[Symbol] MAGNETIC DETECTOR	[Symbol]	[Symbol] GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol] EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol] MICROWAVE VEHICLE SENSOR
[Symbol]	[Symbol] CONFIRMATION BEACON		
[Symbol]	[Symbol] PUSHBUTTON DETECTOR		
[Symbol]	[Symbol] DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.		

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 - FOUNDATION	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2' = (6m + L - 0.6m) =
C - M. ARM POLE		SIGNAL POST	2 (0.6)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	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)

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	28.5
SIGN PANEL - TYPE 2	SQ FT	25
CHANGEABLE MESSAGE SIGN	CAL MO	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	499
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	34
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	69
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	349
HANDHOLE	EACH	3
HEAVY DUTY HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	538
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	446
* ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	614
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3C	FOOT	612
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C	FOOT	2175
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7C	FOOT	218
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PAIR	FOOT	1359
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	54
STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	60
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
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	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE 1	FOOT	512
* LIGHT DETECTOR	EACH	4
* LIGHT DETECTOR AMPLIFIER	EACH	1

* - 100% COST OF VILLAGE OF LEMONT

NOTE: THE PORTABLE CHANGEABLE MESSAGE SIGN (CMS) SHALL BE OPERATIONAL ONE WEEK IN ADVANCE OF THE NEW TRAFFIC SIGNAL TURN-ON AND WILL INCLUDE A MESSAGE IDENTIFYING THE NEW TRAFFIC SIGNAL LOCATION AND THE DATE IT WILL BE OPERATIONAL.

STON ENGINEERING
 CONSULTING SERVICE CORPORATION
 CIVIL ENGINEERS

19 S. BOTHWELL STREET
 PALATINE, ILLINOIS 60067
 VOICE: 847-776-7200 FAX: 847-776-7239

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 PHASE DESIGNATION DIAGRAM
 EMERGENCY VEHICLE PREEMPTION SEQUENCE
 AND SCHEDULE OF QUANTITIES
 IL RTE 171 (E. ARCHER AV.) AT 131ST ST.
 AND ASHBURY DR. LEMONT, ILLINOIS

SCALE: N.T.S. DRAWN BY BR
 DATE 01-22-07 DESIGNED BY VO
 CHECKED BY TJM