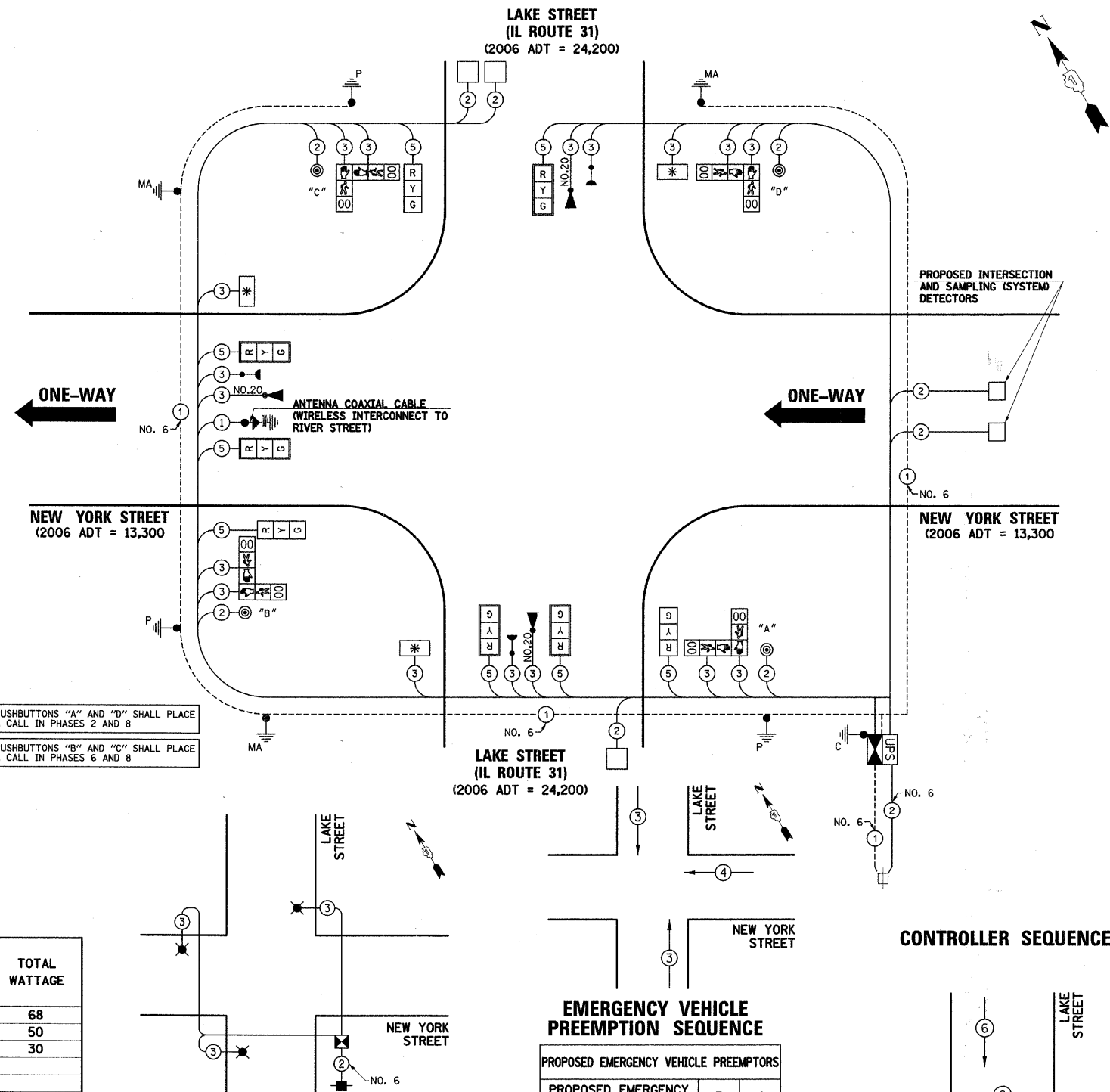


**CABLE PLAN LEGEND**

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
		LUMINAIRE
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		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"
		WIRELESS ANTENNA
		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
		UNINTERRUPTIBLE POWER SUPPLY
		LED STREET NAME SIGN
		VIDEO DETECTION CAMERA
		PAN/TILT/ZOOM CAMERA



PUSHBUTTONS "A" AND "D" SHALL PLACE A CALL IN PHASES 2 AND 8  
 PUSHBUTTONS "B" AND "C" SHALL PLACE A CALL IN PHASES 6 AND 8

**LIGHTING CABLE PLAN**

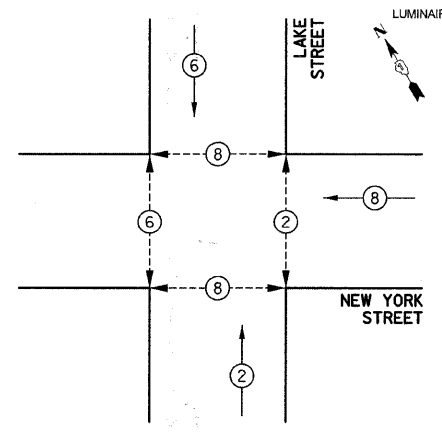
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2= (6m+H-0.6m)
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
E - M.A. LENGTH		CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
<30'	30" (900mm)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
<40'	30" (750mm)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
<40'	36" (900mm)	GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)
<50'	36" (900mm)				
≥50'	36" (900mm)				

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

PROPOSED EMERGENCY VEHICLE PREEMPTORS

PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↑	←

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

**CONTROLLER SEQUENCE LEGEND**

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- NUMBER REFERRING TO ASSOCIATED PHASE
- PEDESTRIAN PHASE

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

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA.

**SCHEDULE OF QUANTITIES**

PAY ITEM DESCRIPTION	UNIT	LAKE STREET
DETECTABLE WARNINGS	SQ FT	38
DRIVEWAY PAVEMENT REMOVAL	SQ YD	12
COMBINATION CURB AND GUTTER REMOVAL	FOOT	32
CONCRETE CURB, TYPE B	FOOT	9
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	28
SIGN PANEL - TYPE 1	SQ FT	31.19
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	653
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	82
PAVEMENT MARKING REMOVAL	SQ FT	365
ELECTRICAL SERVICE INSTALLATION	EACH	1
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	525
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	71
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	24
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	259
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	219
HANDHOLE	EACH	3
ELECTRIC CABLE IN CONDUIT, 800V (XLP-TYPE USE) 1/2" NO. 10	FOOT	551
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	619
LIGHTING CONTROLLER TYPE CB-RCS 60 AMP - 240 VOLT	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	499
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2170
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1370
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1956.5
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	227
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 22 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 28 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 30 FT. (SPECIAL)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	33.5
DRILL EXISTING HANDHOLE	EACH	17
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	5
INDUCTIVE LOOP DETECTOR	EACH	5
DETECTOR LOOP, TYPE I	FOOT	187.6
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2593.5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
PAINT TRAFFIC SIGNAL POST	EACH	3
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	641
SIDEWALK REMOVAL AND REPLACEMENT	SQ FT	401
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 20 3C TWISTED SHIELDED	FOOT	580
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	4
LUMINAIRE SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT (SPECIAL)	EACH	3

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

TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	8		17	0.50	68
(YELLOW)	8		25	0.25	50
(GREEN)	8		15	0.25	30
ARROW			12	0.10	
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
UPS	1		25	1.00	25
LED SIGN	3		60	0.50	90
LUMINAIRE	3		250	0.50	375
<b>TOTAL =</b>					<b>938</b>

ENERGY COSTS TO: CITY OF AURORA  
 44 E. DOWNER PLACE  
 AURORA, ILLINOIS 60507-2067

ENERGY SUPPLY CONTACT: MARK SCHERIBEL  
 PHONE: (630) 723-2128  
 COMPANY: COMMONWEALTH EDISON

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

PROFILE: \_\_\_\_\_

PLAN: \_\_\_\_\_

NO. \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_

PROFILE: \_\_\_\_\_

PLAN: \_\_\_\_\_

NO. \_\_\_\_\_

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND  
 PHASE DESIGNATION DIAGRAM  
 LAKE STREET (IL ROUTE 31)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
07-00267-00-TL		KANE	48	12
CONTRACT NO.				63152

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
g:\Jobs\smith\2007\070690_aurora_traffic	_USER_	DRAWN by BAH	REVISED lake.dgn
		CHECKED APS	REVISED -
		DATE -	REVISED -

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF SHEETS \_\_\_\_\_ STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT