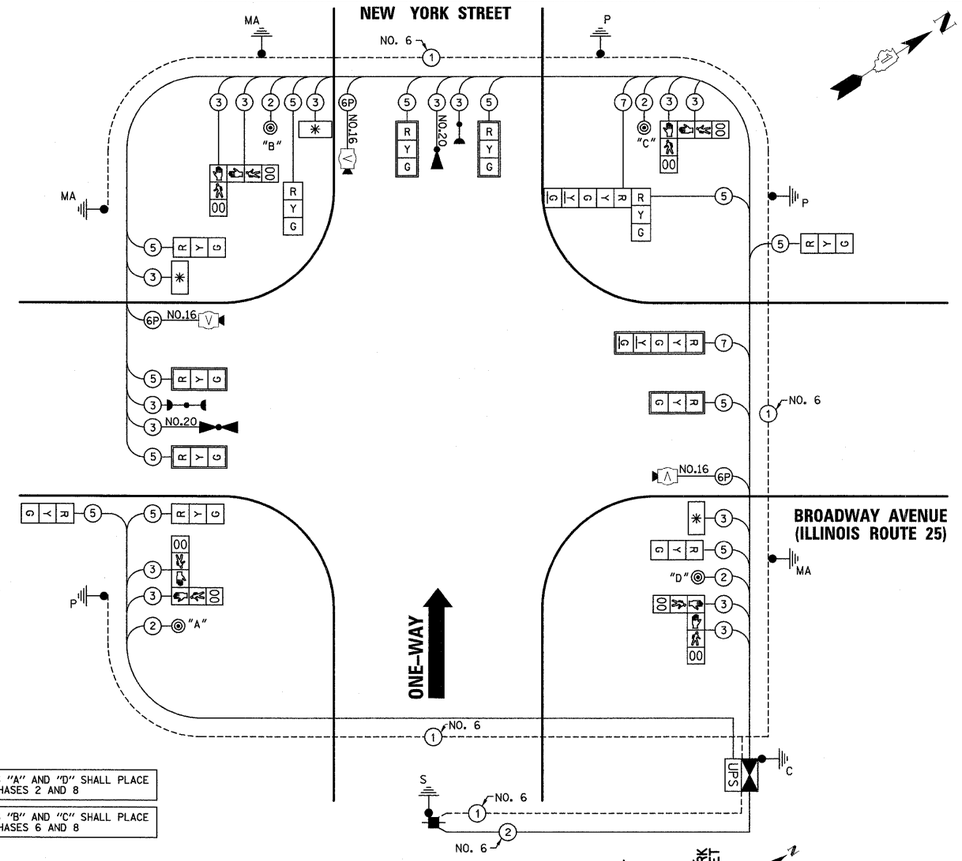
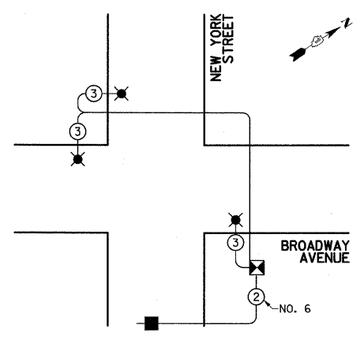
CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
	00	12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		LUMINAIRE
2	2	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
R Y G 1 2 3 "E" "P"	R Y G 1 2 3 "P"	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
"E" R R	R R	RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "NO RIGHT TURN"
		WIRELESS ANTENNA
H/C	H/C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P/MA	P/MA	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
UPS	UPS	UNINTERRUPTABLE POWER SUPPLY
*	*	LED STREET NAME SIGN
V	V	VIDEO DETECTION CAMERA
		LIGHTING CONTROLLER

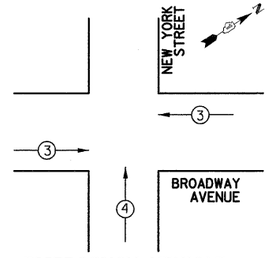
PUSHBUTTONS "A" AND "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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





LIGHTING CABLE PLAN



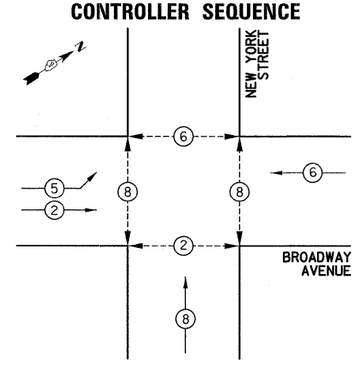
EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

CONTROLLER SEQUENCE LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- * — NUMBER REFERRING TO ASSOCIATED PHASE
- PEDESTRIAN PHASE

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	4		12	0.10	4.8
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
VIDEO SYSTEM	1		15	1.00	15
LUMINAIRE	3		310	0.50	465
				TOTAL =	1158.8

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

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'+L-2=
D - CONTROLLER		4 (1.2)	SIGNAL POST	2 (1.0)		(6m+L-0.6m)
E - M.A. LENGTH			CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
<30'	30" (900mm)	10 (3.0)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
<40'	30" (750mm)	13.5 (4.1)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
<40'	36" (900mm)	11 (3.4)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
<50'	36" (900mm)	13 (4.0)			POST MOUNTED	6 (1.8)
≥50'	36" (900mm)	15 (4.6)				

SCHEDULE OF QUANTITIES

	PAY ITEM DESCRIPTION	UNIT	NEW YORK STREET
	TRENCH BACKFILL	CU YD	9.1
	PORTLAND CEMENT CONCRETE SIDEWALK, SPECIAL	SQ FT	167
	SIDEWALK REMOVAL	SQ FT	167
	CONTROLLED LOW STRENGTH MATERIAL	CU YD	41.8
	SIGN PANEL - TYPE 1	SQ FT	26.2
	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	528
	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	90
	PAVEMENT MARKING REMOVAL	SQ FT	358
**	ELECTRICAL SERVICE INSTALLATION, SPECIAL	EACH	1
	SERVICE INSTALLATION (SPECIAL)	EACH	1
	CONDUIT IN TRENCH, 2" DIA.,GALVANIZED STEEL	FOOT	412
	CONDUIT IN TRENCH, 2 1/2" DIA.,GALVANIZED STEEL	FOOT	66
	CONDUIT IN TRENCH, 4" DIA.,GALVANIZED STEEL	FOOT	39
	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	44
	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	159
	CONDUIT ATTACHED TO STRUCTURE, 2 1/2" DIA., GALVANIZED STEEL	FOOT	20
	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL	FOOT	5
	HANDHOLE	EACH	3
	DOUBLE HANDHOLE	EACH	1
**	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	533
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	511
**	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	EACH	3
	LIGHTING CONTROLLER TYPE CB-RCS 60 AMP - 240 VOLT	EACH	1
	FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	478
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2210
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1930
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	224.5
	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 16 6 PAIR	FOOT	503
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	488
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
**	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 24 FT. (SPECIAL)	EACH	2
**	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT. (SPECIAL)	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6
*	LIGHT DETECTOR	EACH	3
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	4
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2497.5
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	4
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
*	PAINT TRAFFIC SIGNAL POST	EACH	3
	UNINTERRUPTABLE POWER SUPPLY	EACH	1
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	579.5
	VIDEO DETECTION SYSTEM	EACH	1
*	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
	MASONARY WALL CONSTRUCTION	SQ FT	215

* 100% COST TO THE CITY OF AURORA.

** PARTIAL COST TO CITY OF AURORA (SEE SUMMARY OF QUANTITIES).

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 COORDINATED BY THE CONTRACTOR WITH THE CITY OF AURORA.

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / R.O.W. CHECKED / STRUCTURE NOTATIONS CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHECKED / NOTE BOOK / NO. / BY / DATE

FILE NAME = ...\6980_3_sig05c_newyork_IDOT.dgn	USER NAME = _USER_	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL ROUTE 25 AT NEW YORK STREET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN BAH	REVISED -			2503	2009-002 TS	KANE	34	23
	PLOT SCALE = $SCALE$	CHECKED APS	REVISED -					CONTRACT NO. 60F99		
	PLOT DATE = 2/11/2009	DATE JAN 23 2009	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		