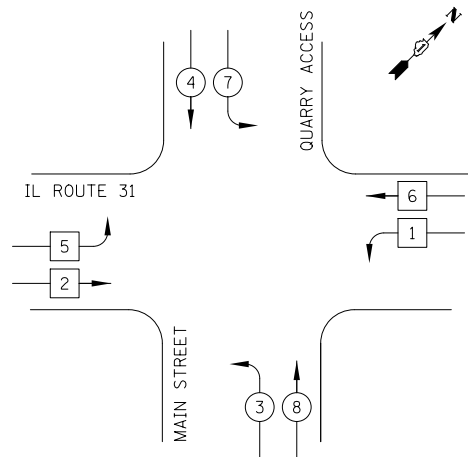
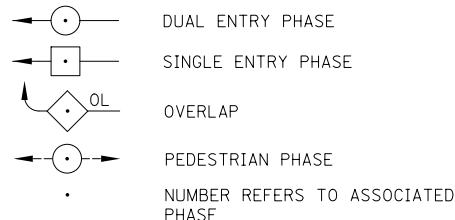


PROPOSED CONTROLLER SEQUENCE

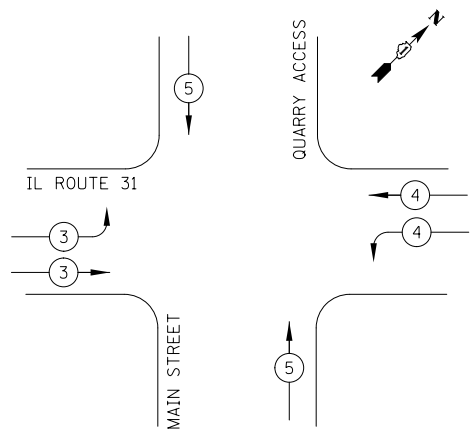


LEGEND



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
CHANGEABLE MESSAGE SIGN	MONTH	2
SIGN PANEL - TYPE 1	SQ FT	46
SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	991
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	55
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	67
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	541
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4
TRANSCEIVER - FIBER OPTIC	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	626
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3412
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	902
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3720
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	215
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1039
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. (SPECIAL)	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	56
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	9
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	12
PREFORMED DETECTOR LOOP	FOOT	923
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	626
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	19		17	0.50	162
(YELLOW)	19		25	0.25	119
(GREEN)	19		15	0.25	71
ARROW	8		12	0.10	10
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100
TOTAL =					462

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: MIKE LENOX
PHONE: (815) 490-2869
COMPANY: COM ED

PROPOSED PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

FIBER OPTIC CABLE NO. 62.5/125, SM24F MM12F
INTERCONNECT TO IL ROUTE 62 (ALGONQUIN RD.)
TRACER CABLE

NUMBER OF CABLES AS PER PLAN

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

CABLE PLAN
NOT TO SCALE

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

FILE NAME = ... \D160F72-sht-ts-15.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
IL ROUTE 31 AT MAIN STREET/QUARRY ACCESS

SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	277
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				