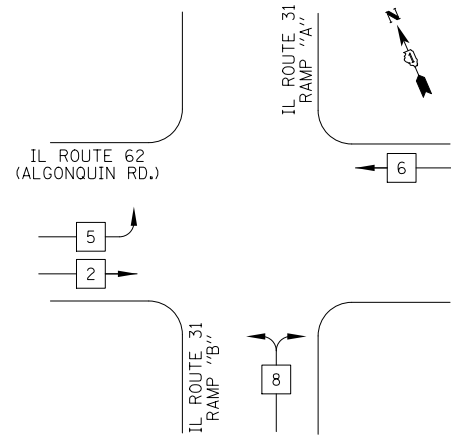
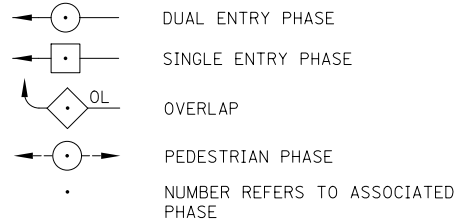


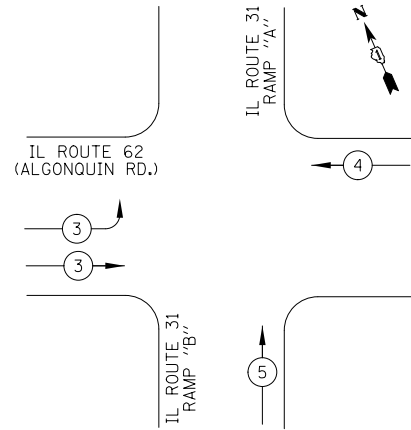
PROPOSED CONTROLLER SEQUENCE



LEGEND



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

PHASE DESIGNATION DIAGRAM

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
CHANGEABLE MESSAGE SIGN	MONTH	1
SIGN PANEL - TYPE 1	SQ FT	10
SERVICE INSTALLATION, GROUND MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	760
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	276
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	26
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	837
HANDHOLE	EACH	6
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	4
** PAINT NEW TRAFFIC SIGNAL POST	EACH	7
** PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
* ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	918
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4770
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3165
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	49
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1349
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	7
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	32
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	27
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7
SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	9
PREFORMED DETECTOR LOOP	FOOT	557
* LIGHT DETECTOR	EACH	5
* LIGHT DETECTOR AMPLIFIER	EACH	1
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	2204
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 34 FT. AND 48 FT.	EACH	1
** PAINT NEW COMBINATION MAST ARM AND POLE WITH DUAL MAST ARMS, 1-UNDER 40 FEET, 1-OVER 40 FEET	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	18		17	0.50	153
(YELLOW)	18		25	0.25	113
(GREEN)	18		15	0.25	68
ARROW	-		12	0.10	-
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					434

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096
CONTACT: MIKE LENOX
PHONE: (815) 490-2869
COMPANY: COM ED

FILE NAME = ... \D160F72-sht-ts-10.dgn	USER NAME = akw	DESIGNED - BRD	REVISED -
		DRAWN - OJT	REVISED -
		CHECKED - JJE	REVISED -
		DATE - 5/3/2012	REVISED -

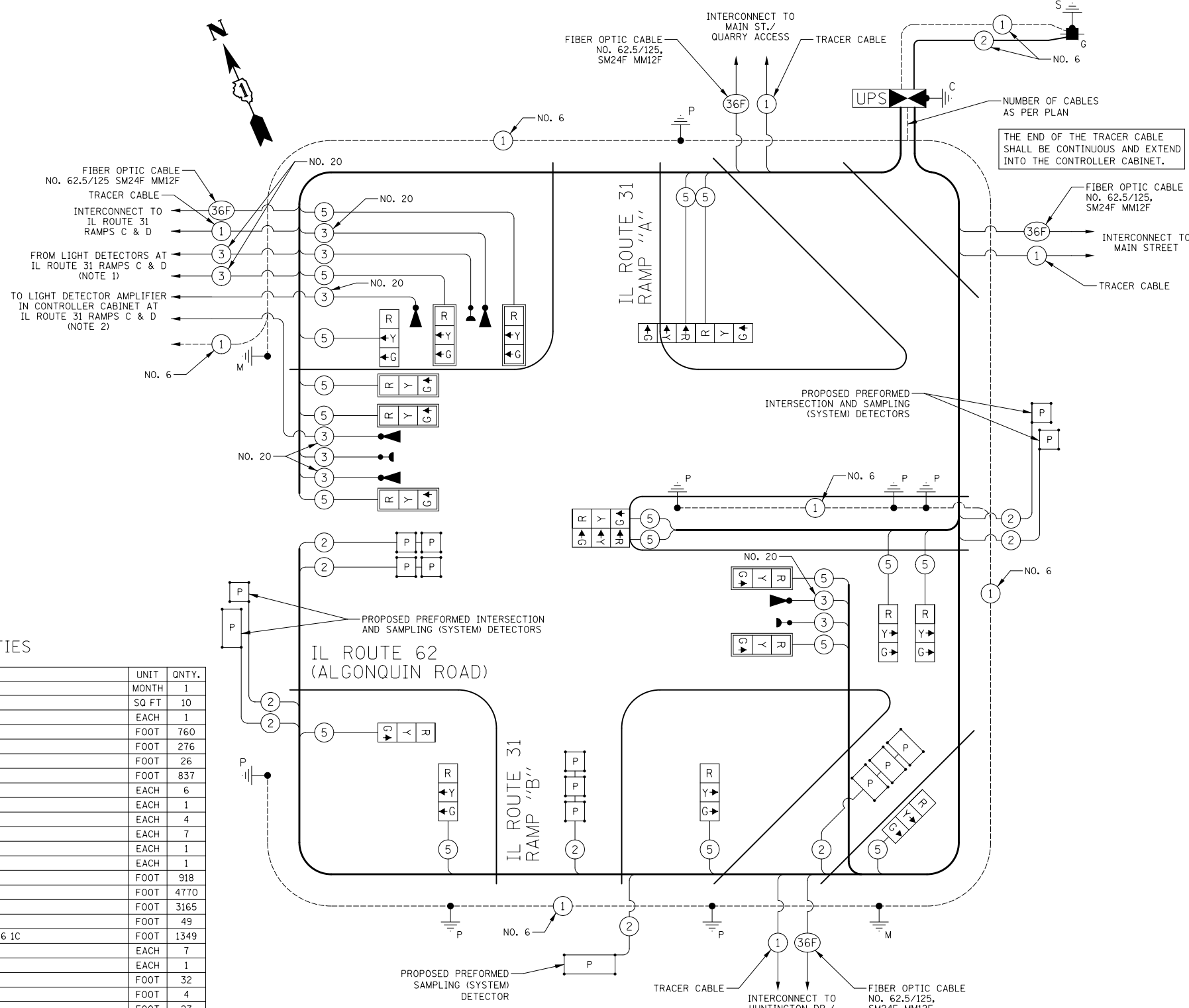
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE & SCHEDULE OF QUANTITIES
IL ROUTE 31 RAMPS A & B AT IL ROUTE 62 (ALGONQUIN RD.)

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	272

CONTRACT NO. 60F72
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



CABLE PLAN
NOT TO SCALE

CABLE PLAN NOTES

- THESE CABLES ARE CONNECTED TO LIGHT DETECTORS ON THE NORTHWEST AND SOUTH MAST ARMS AT THE IL ROUTE 31 RAMPS C & D INTERSECTION. THOSE DETECTORS PLACE A CALL IN EMERGENCY VEHICLE PREEMPTION PHASE 3 AT THIS INTERSECTION.
- THESE CABLES ARE CONNECTED TO THE LIGHT DETECTOR AMPLIFIER IN THE CONTROLLER CABINET AT THE IL ROUTE 31 RAMPS C & D INTERSECTION. THE CORRESPONDING LIGHT DETECTORS PLACE A CALL IN EMERGENCY VEHICLE PREEMPTION PHASE 4 AT THAT INTERSECTION.

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