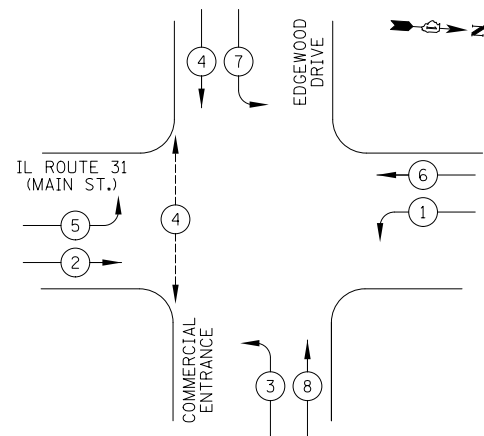
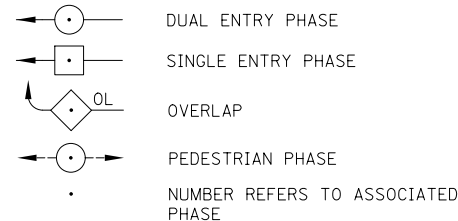


PROPOSED CONTROLLER SEQUENCE

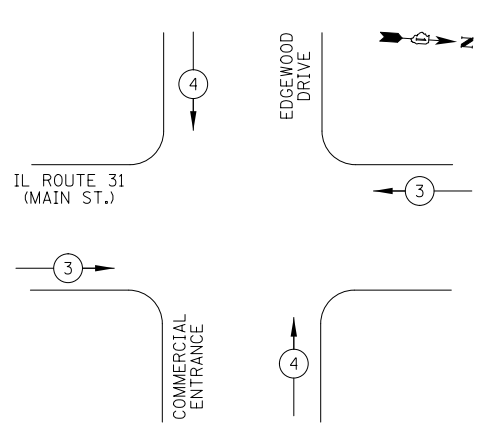


LEGEND



PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE

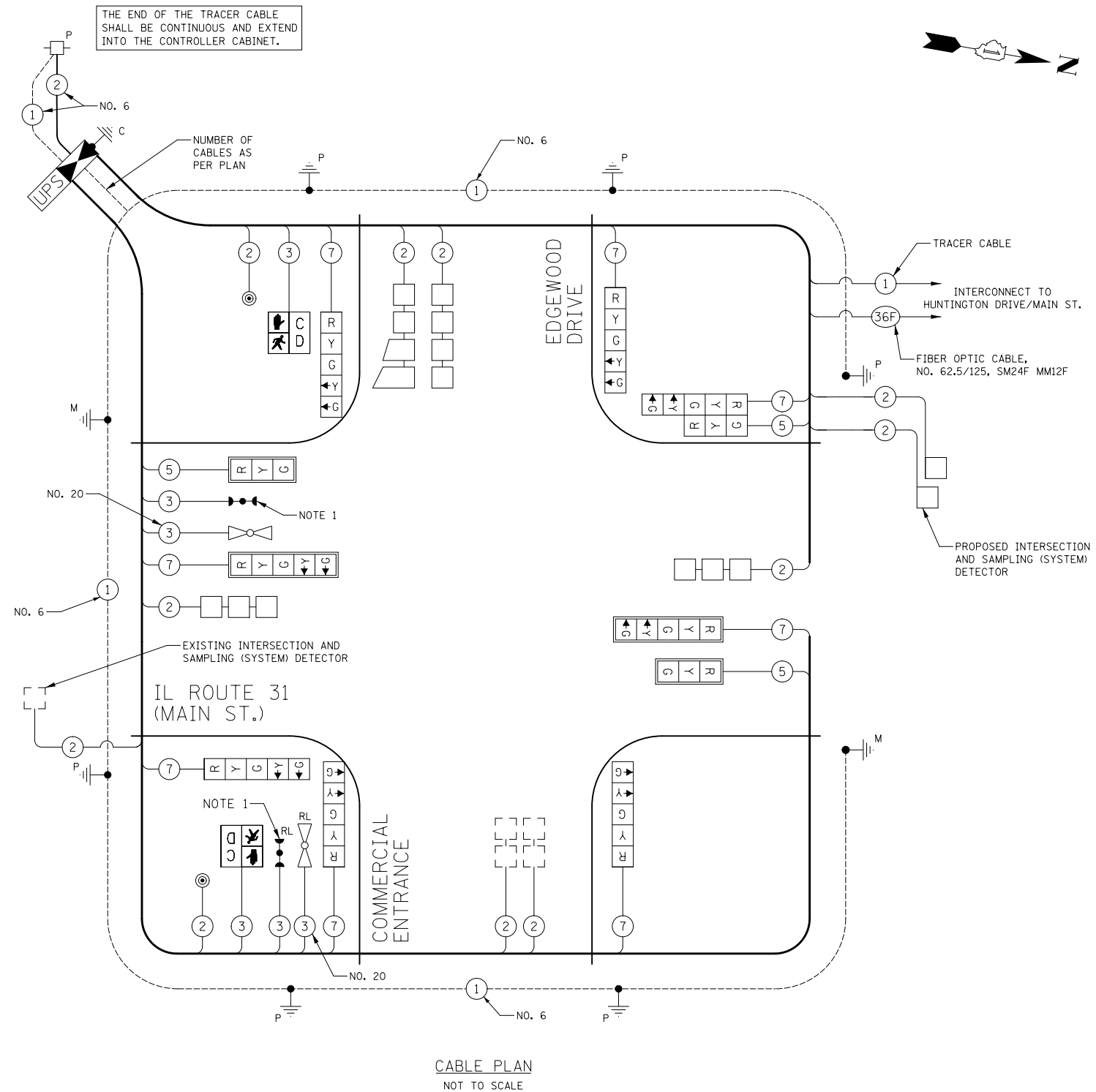


PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	384
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	29
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	93
HANDHOLE	EACH	2
HEAVY-DUTY HANDHOLE	EACH	2
** PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
** PAINT NEW TRAFFIC SIGNAL POST	EACH	6
TRANSCIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	196
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	435
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	488
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1224
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1988
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	45
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	622
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	5
TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	517
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	1
* RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2794
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	1
REMOVE EXISTING HANDHOLE	EACH	5
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	225
ROD AND CLEAN EXISTING CONDUIT	FOOT	557
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO ALGONQUIN-LAKE IN THE HILLS FIRE PROTECTION DISTRICT
 ** 100% COST TO VILLAGE OF ALGONQUIN



CABLE PLAN
NOT TO SCALE

CABLE PLAN NOTES

- REPLACEMENT OF EXISTING CONFIRMATION BEACONS WITH NEW L.E.D. CONFIRMATION BEACONS SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, SPECIAL".

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	11		17	0.50	94
(YELLOW)	11		25	0.25	89
(GREEN)	11		15	0.25	41
ARROW	16		12	0.10	19
PED. SIGNAL	2		25	1.00	50
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					373

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-04.dgn	USER NAME = okw	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 (MAIN ST.) AT EDGEWOOD DRIVE

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	266
CONTRACT NO. 60F72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				