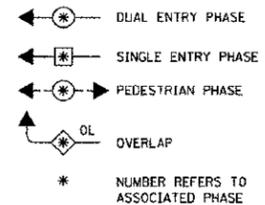


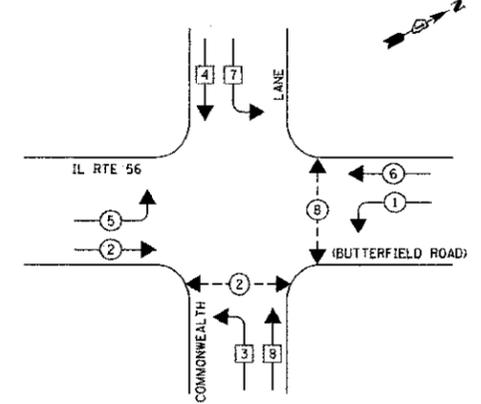
SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
30	SO. FT.	SIGN PANEL-TYPE 1
55	SO. FT.	SIGN PANEL-TYPE 2
705	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
74	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
117	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
405	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
4	EACH	HANDHOLE
5	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
1	EACH	FULL-ACTUATED DOUBLE DOOR CONTROLLER AND TYPE IV CABINET, SPECIAL
530	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1362	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2812	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
853	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2383	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
556	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	TRAFFIC SIGNAL POST, 14 FT.
2	EACH	TRAFFIC SIGNAL POST, 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 58 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
28	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
21	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
8	EACH	SIGNAL HEAD, I.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, I.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, I.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, I.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
12	EACH	INDUCTIVE LOOP DETECTOR
851	FOOT	DETECTOR LOOP, TYPE 1
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11	EACH	REMOVE EXISTING HANDHOLE
10	EACH	REMOVE EXISTING CONCRETE FOUNDATION
807	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
1	EACH	SERVICE INSTALLATION- POLE MOUNTED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
3	EACH	PAINT NEW TRAFFIC SIGNAL POST
1	EACH	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT
3	EACH	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER

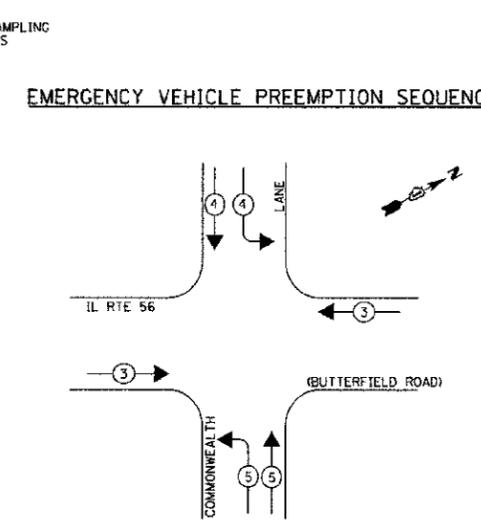
LEGEND



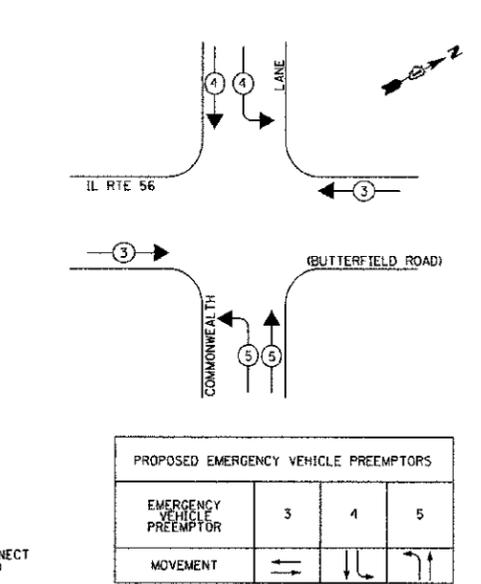
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE

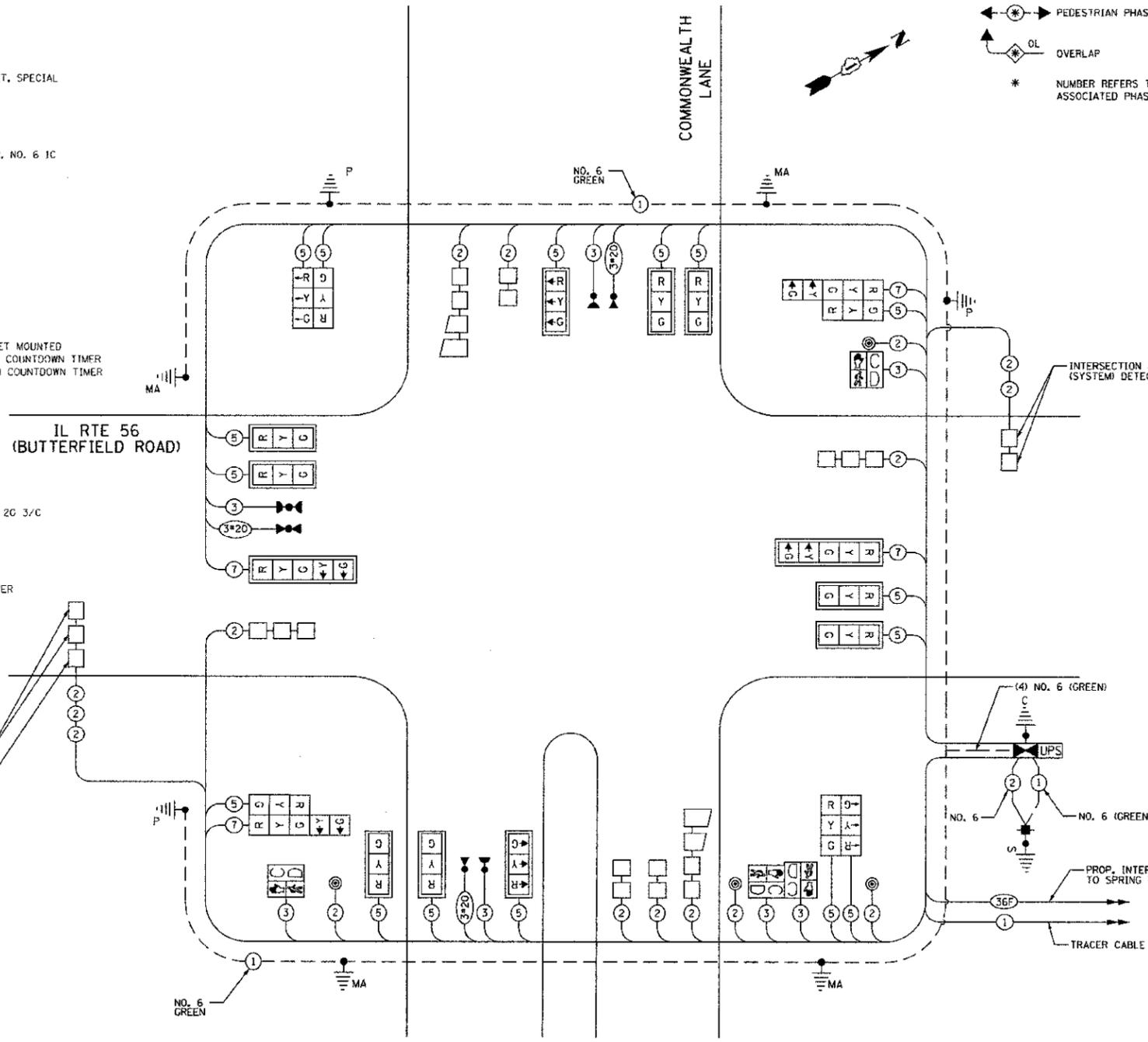


PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↘

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

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

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



CABLE PLAN
NOT TO SCALE

- NOTES:**
- ALL TRAFFIC SIGNAL HEADS SHALL BE ALL BLACK.
 - ALL OTHER TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED ALPHA BRONZE IN ACCORDANCE WITH CITY OF ELMHURST STANDARDS.
 - ALL EVP EQUIPMENT SHALL BE OPTICOM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	
		INCAND.	LED		
SIGNAL (RED)	20	135	17	0.50	170
(YELLOW)	20	135	25	0.25	125
(GREEN)	20	135	15	0.25	75
ARROW	8	135	12	0.10	10
PEC. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	0	100	90	1.00	0

ENERGY COSTS TO: TOTAL = 580
CITY OF ELMHURST
 209 N. YORK STREET
 ELMHURST, IL 60126
 ENERGY SUPPLY CONTACT: DEB RANKIN
 PHONE: (630) 691-4379
 COMPANY: COMMONWEALTH EDISON COMPANY

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 PLOT DATE = 12/17/2012

DESIGNED - JSL	REVISED - 10/10/12
DRAWN - JSL	REVISED - 12/13/12
CHECKED - RPJ	REVISED -
DATE - 10/22/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 (BUTTERFIELD ROAD) AT COMMONWEALTH LANE
PROPOSED TRAFFIC SIGNAL PLAN,
SEQUENCE OF OPERATIONS AND SCHEDULE OF QUANTITIES

F.A.U. RTE. 3545	SECTION 09-00170-00-CH	COUNTY DUPAGE	TOTAL SHEETS 108	SHEET NO. 50
SCALE: NONE			SHEET NO. 50 OF 108 SHEETS	
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT	

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