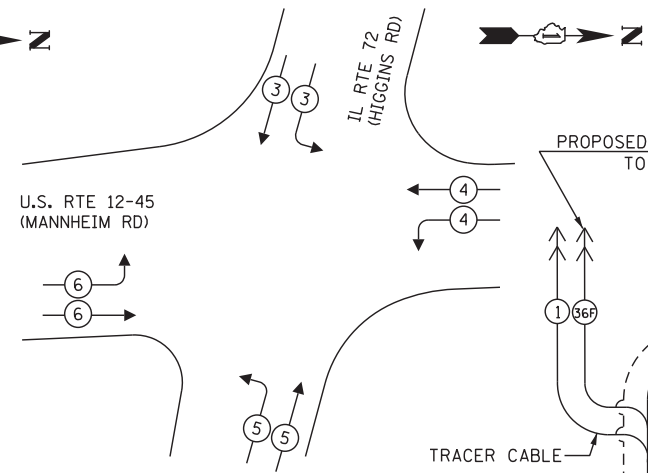
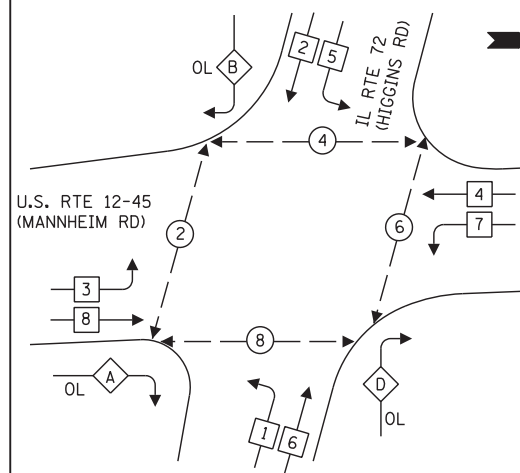


CONTROLLER SEQUENCE

EMERGENCY VEHICLE PREEMPTION SEQUENCE

SCHEDULE OF QUANTITIES



LEGEND

- ⊕ DUAL ENTRY PHASE
- ⊖ SINGLE ENTRY PHASE
- ◇ OL OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 8 +	1
B	= 2 +	3
D	= 6 +	7

NOTE:
1. INTERSECTION COMBINATION LIGHTS MAINTAINED BY IDOT.

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT	↘	↙	↗	↖

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

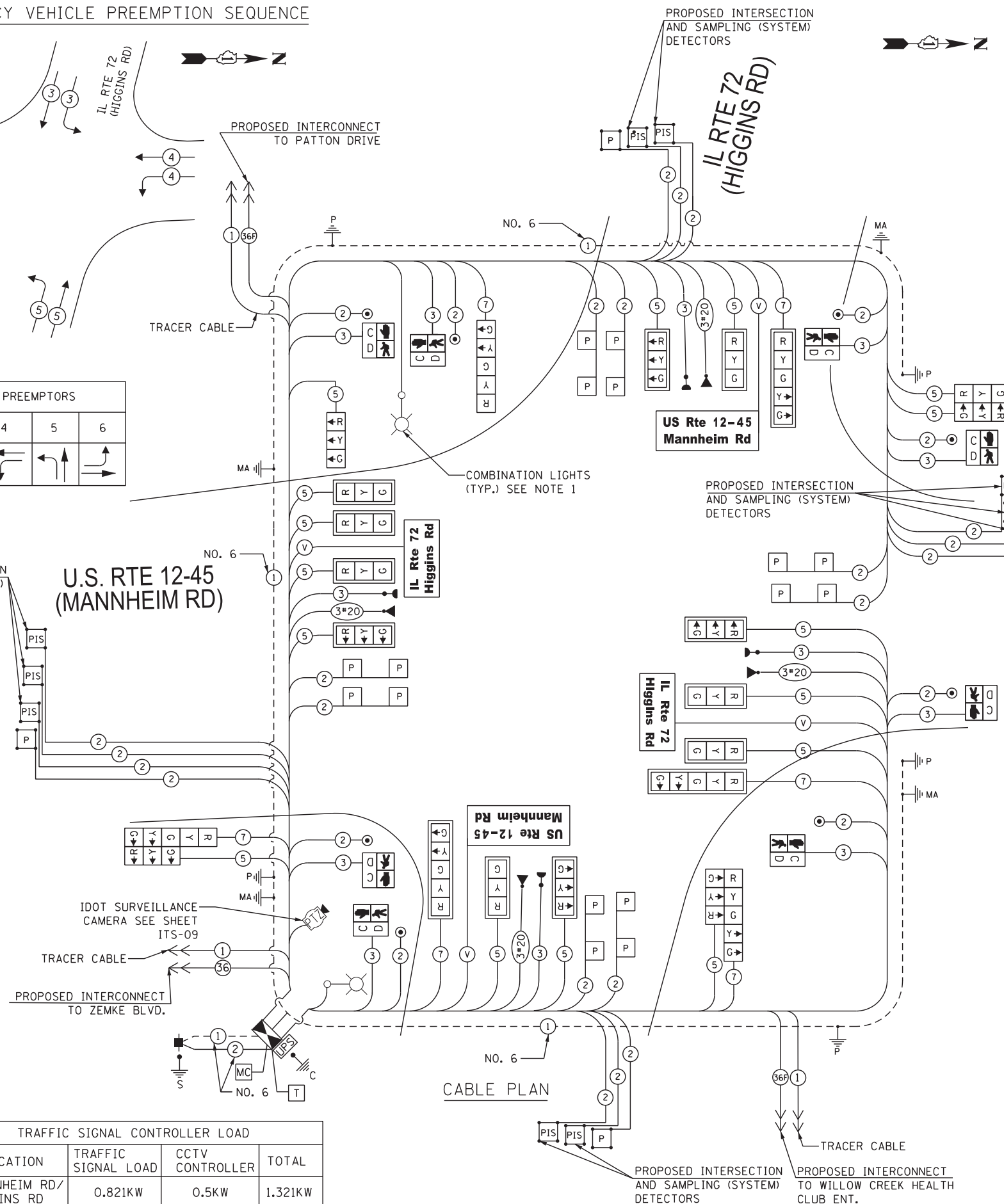
U.S. RTE 12-45 (MANNHEIM RD)

IL Rte 72 Higgins Rd

US Rte 12-45 Mannheim Rd

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

CABLE PLAN



NO.	PAY ITEM DESCRIPTION	UNIT	MANHEIM RD / HIGGINS RD
1	SIGN PANEL - TYPE 1	SQ FT	60.00
2	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,403
3	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	77
4	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	50
5	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	907
6	HANDHOLE	EACH	5
7	HEAVY-DUTY HANDHOLE	EACH	4
8	DOUBLE HANDHOLE	EACH	3
9	TRANSDUCER - FIBER OPTIC	EACH	1
10	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,845
11	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,096
12	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,979
13	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,199
14	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAR	FOOT	7,331
15	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	111
16	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,816
17	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1
18	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	1
19	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT.	EACH	2
20	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1
21	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1
22	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 56 FT.	EACH	1
23	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1
24	CONCRETE FOUNDATION, TYPE A	FOOT	20
25	CONCRETE FOUNDATION, TYPE C	FOOT	4
26	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	84
27	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	11
28	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
29	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
30	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3
31	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
32	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2
33	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	7
34	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
35	TRAFFIC SIGNAL BACKPLATE LOUVERED, ALUMINUM	EACH	14
36	INDUCTIVE LOOP DETECTOR	EACH	21
37	PREFORMED DETECTOR LOOP	FOOT	1,020
38	LIGHT DETECTOR	EACH	4
39	LIGHT DETECTOR AMPLIFIER	EACH	1
40	PEDESTRIAN PUSH-BUTTON	EACH	8
41	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
42	ILLUMINATED SIGN, LED	EACH	4
43	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
44	REMOVE EXISTING HANDHOLE	EACH	21
45	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
46	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,002
47	SERVICE INSTALLATION (SPECIAL)	EACH	1
48	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
49	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
50	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

* 100% COST TO VILLAGE OF ROSEMONT.

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

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.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	22		17	0.50	187.00
(YELLOW)	22		25	0.25	137.50
(GREEN)	22		15	0.25	82.50
ARROW	12		12	0.10	14.40
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	4		25	0.50	100.00
VIDEO SYSTEM	-		-	1.00	-
FLASHER					
ENERGY COSTS TO: TOTAL =					821.40

TRAFFIC SIGNAL CONTROLLER LOAD			
LOCATION	TRAFFIC SIGNAL LOAD	CCTV CONTROLLER	TOTAL
MANHEIM RD / HIGGINS RD	0.821KW	0.5KW	1.321KW

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
CONTACT: STEVE FITZGERALD
PHONE: (708) 235-2327
COMPANY: ComEd



USER NAME = rmanucod	DESIGNED JA	REVISED -
DRAWN RM	REVISIONS -	
PLOT SCALE = *SCALE*	CHECKED HS	REVISIONS -
PLOT DATE = 11/29/2012	DATE 10/19/2012	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 12-45 (MANNHEIM RD) AND IL 72 (HIGGINS RD)

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

F.A.P. RTE. 330	SECTION 0105-WRS	COUNTY COOK	TOTAL SHEETS 537	SHEET NO. 255
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60P35

TS-22