

**SCHEDULE OF QUANTITIES**  
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

NO.	QUANT.	UNIT	DESCRIPTION
1.	1.00	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.40	L SUM	MOBILIZATION
3.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.40	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	22.50	SO FT	SIGN PANEL - TYPE I
7.	1	EACH	SERVICE INSTALLATION - GROUND MOUNTED
8.	428	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
9.	77	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
10.	187	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
11.	419	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
12.	92	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 5" DIA.
13.	2	EACH	HANDHOLE
14.	4	EACH	DOUBLE HANDHOLE
15.	1	EACH	TRANSCEIVER - FIBER OPTIC
16.	4,668	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
17.	803	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
18.	3,224	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
19.	34	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
20.	746	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
21.	4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
22.	2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.
23.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.
24.	1	EACH	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 20 FT. AND 38 FT.
25.	1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.
26.	20	FOOT	CONCRETE FOUNDATION, TYPE A
27.	4	FOOT	CONCRETE FOUNDATION, TYPE C
28.	30	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
29.	27	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
30.	13	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
31.	5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
32.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
33.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
34.	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
35.	14	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
36.	10	EACH	INDUCTIVE LOOP DETECTOR
37.	660	FOOT	DETECTOR LOOP, TYPE I
38.	1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
39.	3	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
40.	1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
41.	1,916	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
42.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
43.	6	EACH	REMOVE EXISTING HANDHOLE
44.	10	EACH	REMOVE EXISTING CONCRETE FOUNDATION
45.	675	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
46.	513	FOOT	ROD AND CLEAN EXISTING CONDUIT
47.	1	EACH	MICROWAVE VEHICLE SENSOR (SMARTSENSOR ADVANCE)
48.	1	EACH	FULL-ACTUATED CONTROLLER AND SUPER P CABINET, TYPE IV, SPECIAL
49.	1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
50.	51.40	SO FT	TEMPORARY INFORMATION SIGNING
51.	1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
52.	7	EACH	CLEAN EXISTING MANHOLE OR HANDHOLE

•100% OF THE COST SHALL BE PAID BY THE VILLAGE OF DOWNERS GROVE

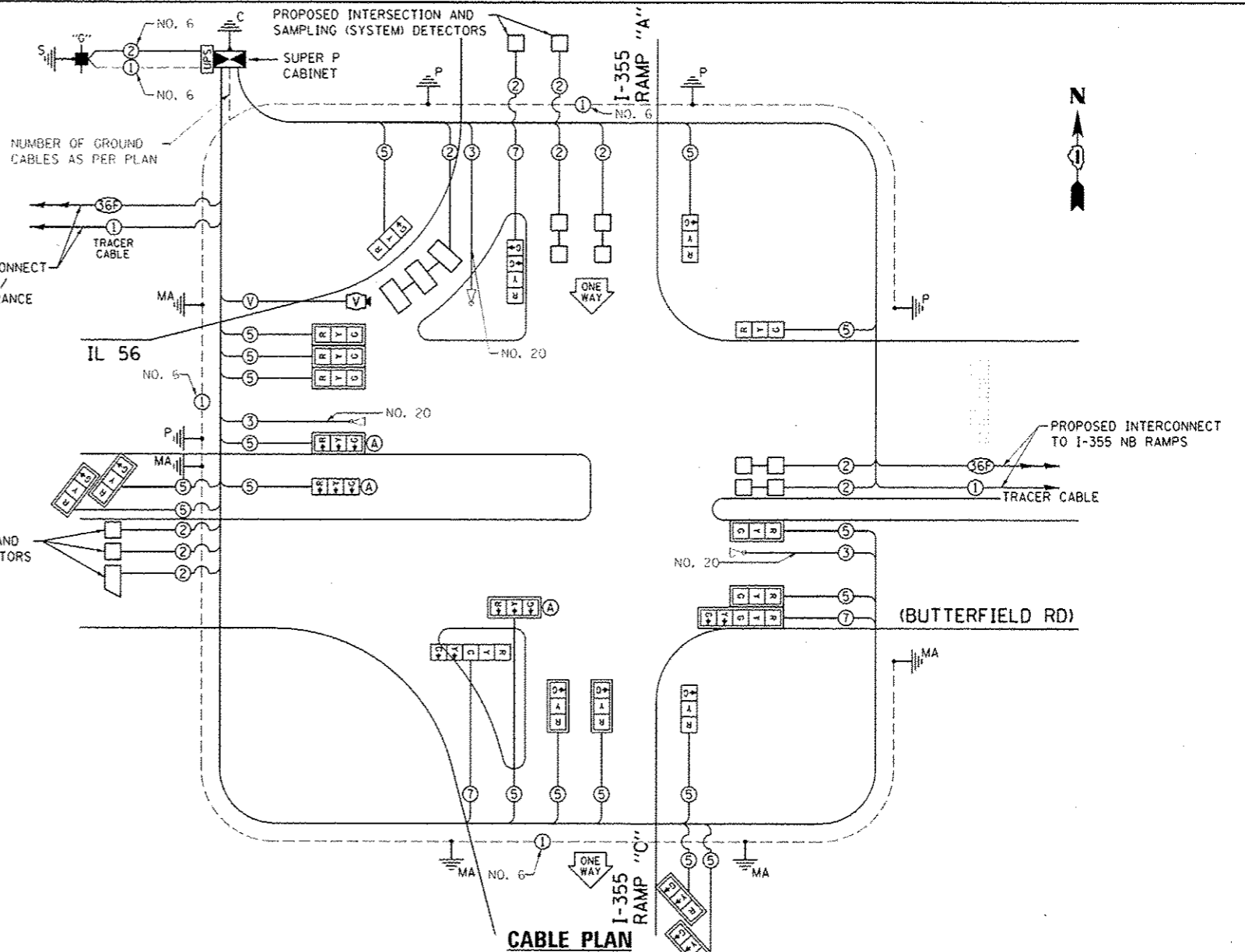
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE	
TYPE	NO. LAMPS	WATTAGE INCAND. L.E.D.	OPERATION		
SIGNAL (RED)	21	135	17	0.50	178.5
SIGNAL (YELLOW)	21	135	25	0.25	131.25
SIGNAL (GREEN)	22	135	15	0.25	82.5
ARROW	4	135	12	0.10	4.8
RED SIGNAL	-	90	25	1.00	-
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	1	-	150	1.00	150.00
BATTERY BACKUP	1	-	25	1.00	25.0
ILLUMINATED SIGN	-	-	25	0.05	-
TOTAL =					672.05

ENERGY COSTS - BILLED TO: IL DEPT. OF TRANSPORTATION  
(ADDRESS) 201 W. CENTER COURT  
(ADDRESS) SCHAMBURG, IL 60196-1096  
ENERGY SUPPLY - CONTACT: ILYAS MOHIDDIN  
PHONE: 708-235-2692  
COMPANY: COMED - UNIVERSITY PARK

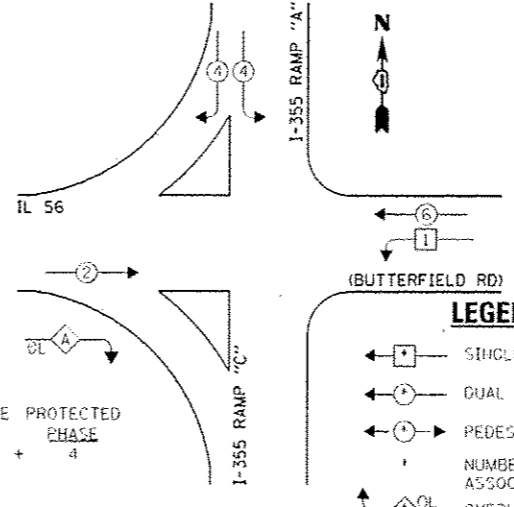
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



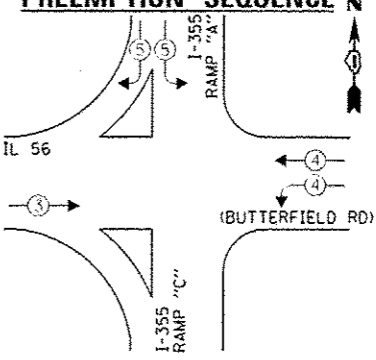
R10-5  
30"x36" (TYP)  
SIGN PANEL TYPE 1  
(3 REQUIRED)



**PROPOSED CONTROLLER SEQUENCE**



**PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**LEGEND:**  
 ← ○ → SINGLE ENTRY PHASE  
 ← ○ ○ → DUAL ENTRY PHASE  
 ← ○ ○ ○ → PEDESTRIAN PHASE  
 ○ NUMBER REFERS TO ASSOCIATED PHASE  
 ○ ○ OVERLAP

**PROPOSED PHASE DESIGNATION DIAGRAM**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION  
DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL 56 (BUTTERFIELD RD) AT I-355 SB RAMPS

F.A.P. RTE. 365	SECTION (56R-2) TS	COUNTY DuPAGE	TOTAL SHEETS 33	SHEET NO. 19
CONTRACT NO. 60T98			ILLINOIS FED. AID PROJECT	

CHA #4085.885