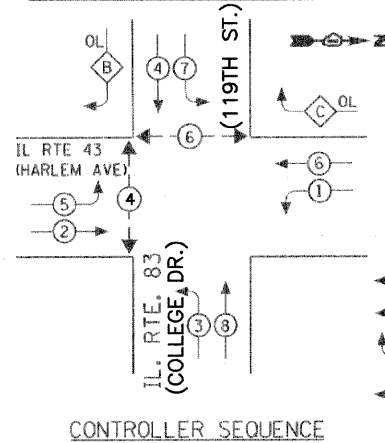


PHASE DESIGNATION DIAGRAM



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

CONTROLLER SEQUENCE

CABLE PLAN LEGEND

- 8" (200mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- UNINTERRUPTIBLE POWER SUPPLY (UPS)
- SERVICE INSTALLATION
- TELEPHONE CONNECTION
- VEHICLE DETECTOR, INDUCTION LOOP
- MAGNETIC DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PUSHBUTTON DETECTOR
- DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
- FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
- SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
- RAILROAD CONTROL CABINET
- ILLUMINATED SIGN "NO LEFT TURN"
- ILLUMINATED SIGN "NO RIGHT TURN"
- GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH), OR CONTROLLER (C)
- GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- VIDEO VEHICLE SENSOR

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

3 PAIR NO. 18

INTERCONNECT TO 123rd STREET

IL RTE 43

PROPOSED CABLE PLAN

SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
480	SQ. FT.	THERMOPLASTIC PAVEMENT MARKING-LETTERS AND SYMBOLS
353	FOOT	THERMOPLASTIC PAVEMENT MARKING-LINE 6"
166	FOOT	THERMOPLASTIC PAVEMENT MARKING-LINE 24"
32	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
32	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
900	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
890	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
3	EACH	CONCRETE FOUNDATION, TYPE A
3	EACH	DRILL EXISTING HANDHOLE
2	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	TOTAL WATTAGE
SIGNAL (RED)	16	17	0.50	136.0
(YELLOW)	16	25	0.25	100.0
(GREEN)	16	15	0.25	60.0
ARROW	16	12	0.10	19.2
PED. SIGNAL	4	25	1.00	100.0
CONTROLLER	1	100	1.00	100.0
ILLUM. SIGN			0.05	
FLASHER			0.50	
ENERGY COSTS TO:				TOTAL =
ILLINOIS DEPARTMENT OF TRANSPORTATION 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096				515.2
ENERGY SUPPLY CONTACT: Ms. DOLORES KREMNITZER PHONE: (815) 724-5241 COMPANY: COMED-EDISON				

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'±-2'
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m±L-0.6m)±	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE. 43 (HARLEM AVE.) & IL RTE. 83 (119TH ST.)

CABLE PLANS/SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
348	09-00044-00-SW	COOK	29	20
CONTRACT NO. 63413				

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

ILLINOIS/FED. AID PROJECT

PLOT DATE: Dec 17, 2009 FILENAME: HARLEM-119TH-TRAFFIC-SIGNAL-ENGINEERING-119th-09-18-17.dwg