

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	*	LAKE	554	297
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT #62700				
*(L-2(W,R); 6,6A & 6EXT)WRS-1				

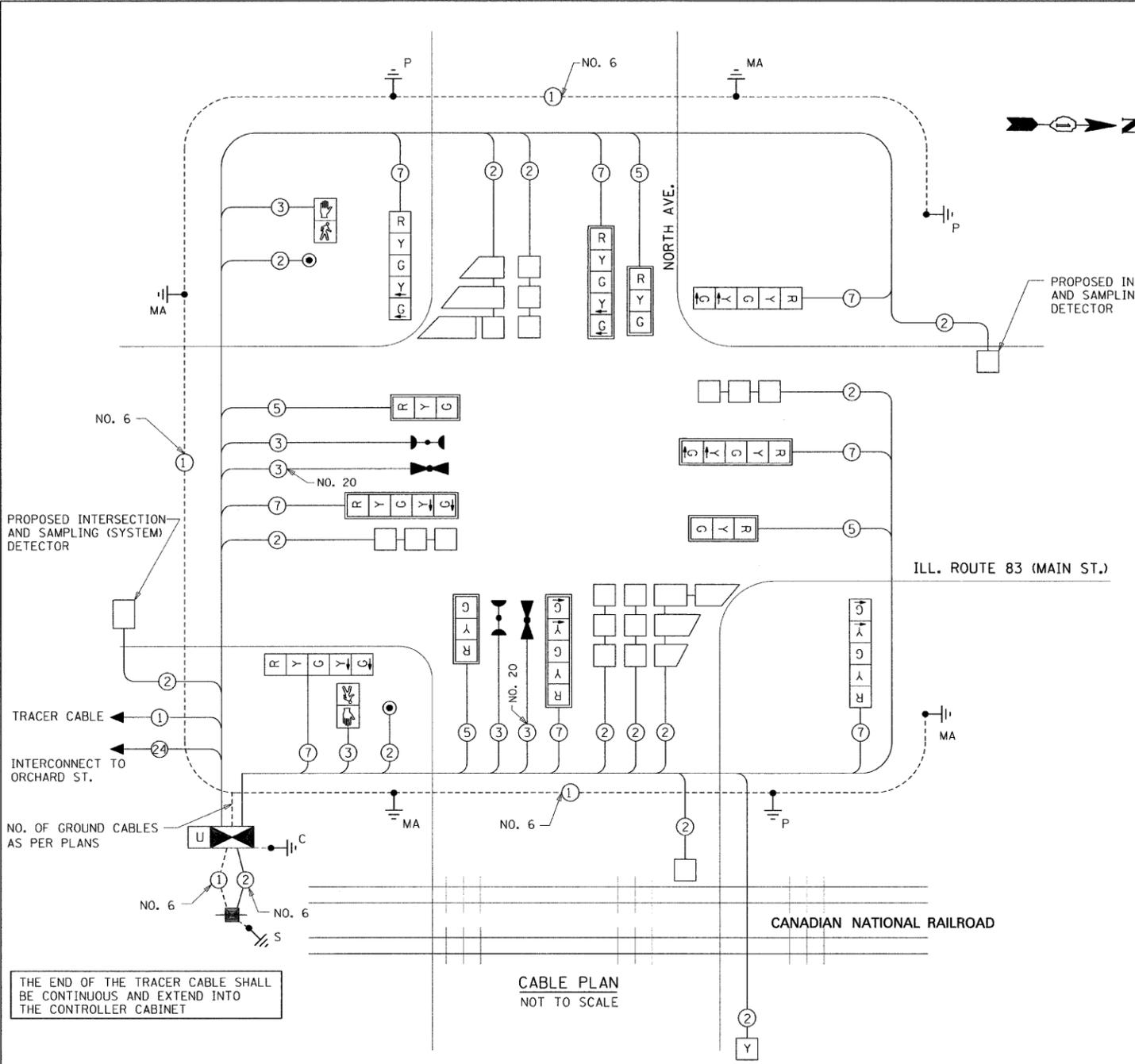
CABLE PLAN LEGEND

- | | | |
|-----------------|-----------------|---------------------------------------------------------------------------------------------------------------|
| EXISTING | PROPOSED | |
| | | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | TELEPHONE INSTALLATION |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | 2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | 1 GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | 24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| | | SIGNAL FACE WITH BACK PLATE "P" INDICATES PROGRAMMED HEAD. |
| | | RAILROAD CONTROL CABINET |
| | | ILLUMINATED SIGN "NO LEFT TURN" |
| | | ILLUMINATED SIGN "NO RIGHT TURN" |
| | | C GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C) |
| | | P GROUND ROD AT POST (P) OR MAST ARM POLE (MA) |
| | | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | U UN-INTERRUPTIBLE POWER SUPPLY (UPS) |

SCHEDULE OF QUANTITIES

PAY ITEM	UNITS	TOTAL
SIGN PANEL - TYPE 1	SQ FT	18.5
SIGN PANEL - TYPE 2	SQ FT	25
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	647
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	90
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	70
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	260
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	53
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	313
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	845
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	775
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	550
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	925
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1660
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2380
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	100
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	40.5
CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	13
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	990
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	2
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	12
POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL)	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	570
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	330
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1

*100% COST TO THE VILLAGE OF ANTIOCH



CABLE PLAN NOT TO SCALE

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
(YELLOW)	12	135	25	0.25	75.0
(GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN		84	35	0.05	-
FLASHER	1	135	25	0.50	12.5
TOTAL =					453.7

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK (FT.) (m)	CABLE SLACK (FT.) (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)
E - M. ARM POLE	2 (0.6)	SIGNAL POST	2 (0.6)
24" (60mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)
		ELECTRIC SERVICE	1 (0.5)
		GROUND CABLE	1 (0.5)
		SERVICE TO GROUND	13.5 (4.1)
		POST MOUNTED	6 (1.8)

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court/Schaumburg, Illinois 60196-1096
ENERGY SUPPLY: CONTACT: Mr. Amador Velez
PHONE: 847-816-5248
COMPANY: ComEd

NOTE: EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES AND DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		CABLE PLAN AND SCHEDULE OF QUANTITIES ILL. ROUTE 83 (MAIN ST.) NORTH AVENUE

SCALE: NONE
DATE: 1/30/09
DRAWN BY: RV
DESIGNED BY: RS
CHECKED BY: AZ

GA2004024_N\F:\e TransFer\In\KMM7-9-08\Contract B\TS-31.sht 1/27/2005