

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285 02-00075-00-PV	COOK	ILLINOIS	161	80
STA.		TO STA.		
FED. ROAD DIST. NO. .		FED. AID PROJECT		

CABLE PLAN LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED	DESCRIPTION
				8" (200mm) TRAFFIC SIGNAL SECTION
				12" (300mm) TRAFFIC SIGNAL SECTION
				12" (300mm) PEDESTRIAN SIGNAL SECTION
				12" (300mm) PEDESTRIAN SIGNAL SECTION
				CONTROLLER CABINET
				SERVICE INSTALLATION
				TELEPHONE CONNECTION
				MAGNETIC DETECTOR
				EMERGENCY VEHICLE LIGHT DETECTOR
				CONFIRMATION BEACON
				PUSHBUTTON DETECTOR
				VEHICLE DETECTOR, INDUCTION LOOP
				DENOTES PREFORMED DETECTOR LOOP
				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 2-MMI2F SM12F
				NO. 14 1/C TRACER CABLE
				UNINTERRUPTIBLE POWER SUPPLY

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE".

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

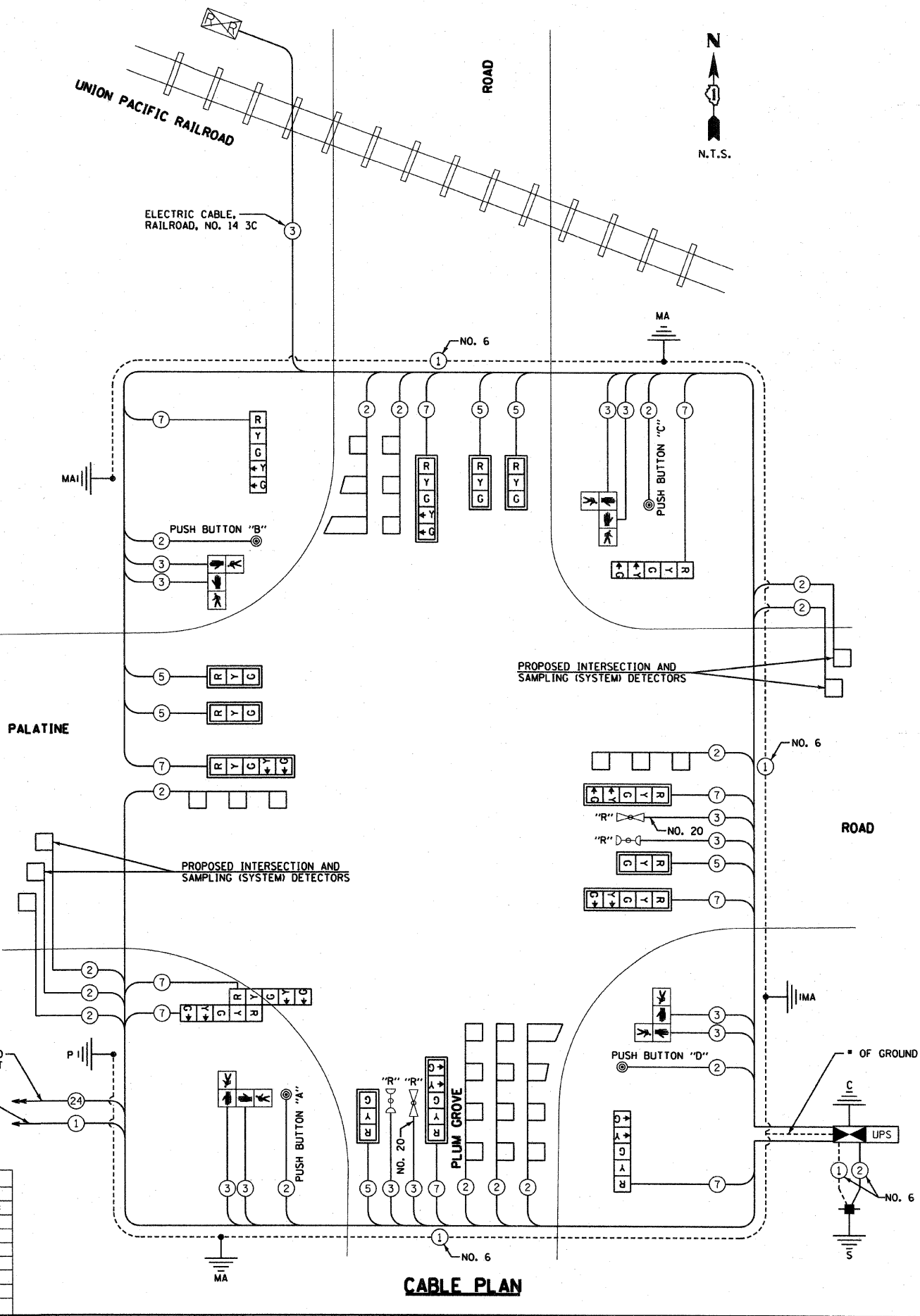
PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	INCAND.	LED	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	20	135	12	0.10	24
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
BATTERY BACKUP	1		25	1.00	25
ILLUM. SIGN		252		0.05	
FLASHER			25	0.50	
ENERGY COST TO:				TOTAL =	645

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: ELLI SARALLO
 PHONE: (630) 424-5124
 COMPANY: COMMONWEALTH 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)
TYPE C - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20+L-2= (6+L-0.6)=
30", TYPE E	15 (4.6)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
36", TYPE E	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
		FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

PLOT DATE = 08/27/09
FILE NAME = 02-00075-00-PV
USER NAME = USER1



SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
SIGN PANEL - TYPE 1	EACH	1	52.5	52.5
CONDUIT IN TRENCH, 2" DIA., GALVANIZED	FOOT	358		
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED	FOOT	22		
CONDUIT IN TRENCH, 3" DIA., GALVANIZED	FOOT	124		
CONDUIT IN TRENCH, 5" DIA., GALVANIZED	FOOT	10		
CONDUIT PUSHED, 2" DIA., GALVANIZED	FOOT	319		
CONDUIT PUSHED, 3" DIA., GALVANIZED	FOOT	157		
CONDUIT PUSHED, 4" DIA., GALVANIZED	FOOT	407		
HANDHOLE	EACH	9		
HEAVY-DUTY HANDHOLE	EACH	1		
DOUBLE HANDHOLE	EACH	2		
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	514		
TRANSCEIVER - FIBER OPTIC	EACH	1		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	616		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,953		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,420		
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,826		
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,638		
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	180		
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1		
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2		
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1		
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1		
CONCRETE FOUNDATION, TYPE A	FOOT	4		
CONCRETE FOUNDATION, TYPE C	FOOT	4		
CONCRETE FOUNDATION, TYPE E	FOOT	56		
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6		
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	4		
TRAFFIC SIGNAL BACKPLATE	EACH	11		
INDUCTIVE LOOP DETECTOR	EACH	12		
DETECTOR LOOP, TYPE I	FOOT	2,809		
PEDESTRIAN PUSH-BUTTON	EACH	4		
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2		
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1		
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	300		
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		
REMOVE EXISTING HANDHOLE	EACH	13		
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8		
SERVICE INSTALLATION - POLE MOUNTED	EACH	1		
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1,059		
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	650		
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	1,116		
UNINTERRUPTIBLE POWER SUPPLY	EACH	1		
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET (SPECIAL)	EACH	1		
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	VILLAGE OF PALATINE	
		PALATINE ROAD & PLUM GROVE ROAD RECONSTRUCTION SMITH STREET TO US 14 (NORTHWEST HIGHWAY)	
		PALATINE ROAD AND PLUM GROVE ROAD CABLE PLAN AND SCHEDULE OF QUANTITIES	
SCALE: NTS		DRAWN BY: DMB	
DATE: OCTOBER 19, 2009		CHECKED BY: RY	