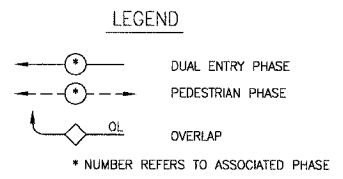
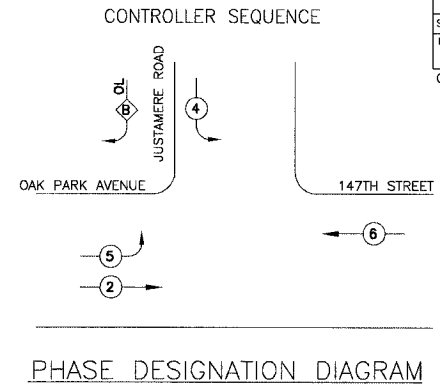
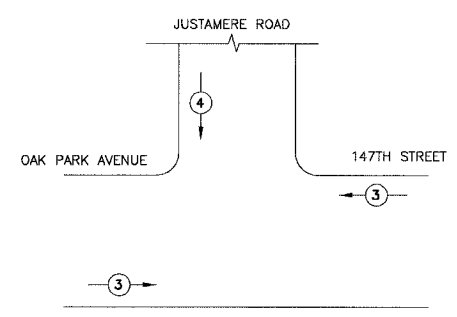


F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	116	79
STA.	TO STA.		FED. ROAD DIST. NO. 1	
	ILLINOIS		FED. AID PROJECT CMM-7003 (750)	
CONTRACT NO. 83727				

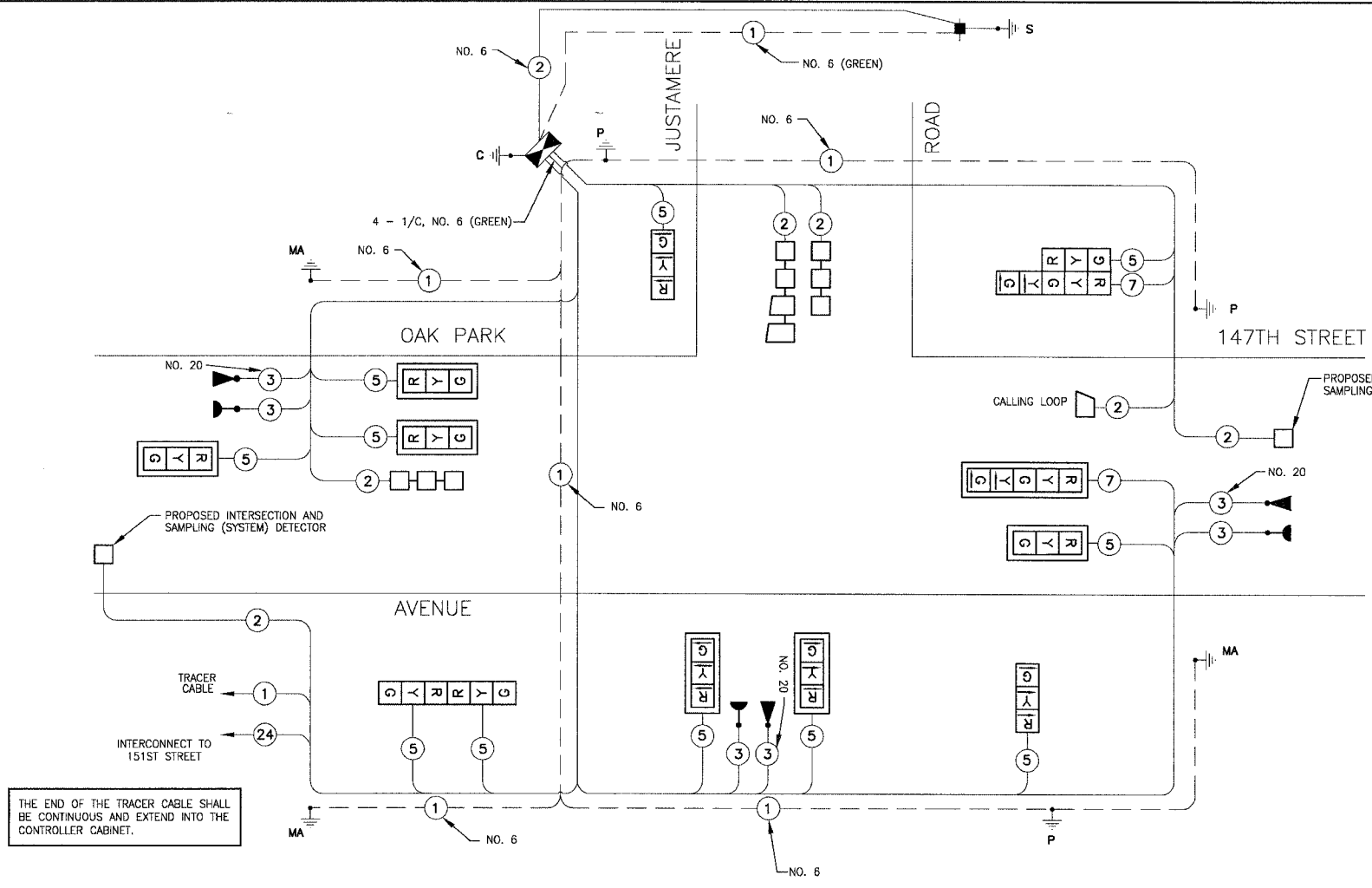


RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
B	= 4	+ 5	- 4



PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTORS	3 4
MOVEMENT	→ ↓



CABLE PLAN LEGEND

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 INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-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 (H), OR CONTROLLER (C)
		GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	34
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	760
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	141
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	28
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	222
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	148
HANDHOLE	EACH	4
HEAVY DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1120
FULL - ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	887
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1399
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	338
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1051
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	199
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 30" DIAMETER	FOOT	45
TRAFFIC SIGNAL BACKPLATE, LDUVERED	EACH	7
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE 1	FOOT	407
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	533
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	443
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 3 SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, BRACKET MOUNTED	EACH	1

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
D - CONTROLLER	4	DOUBLE HANDHOLE	15	MAST ARM (L) POLE	20'+L-2'
E - M. ARM POLE	-	SIGNAL POST	2	BRACKET MOUNTED	13
		24"	10"	CONTROLLER CAB.	6
				PED. PUSHBUTTON	4
		30"	15	FIBER OPTIC	13
				ELECTRIC SERVICE	13.5
				ELECTRIC SERVICE	1
				SERVICE TO GROUND	13.5
				GROUND CABLE	1
				POST MOUNTED	6

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO LAMPS	WATTAGE	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	17	0.50	77
(YELLOW)	9	25	0.25	56
(GREEN)	9	15	0.25	34
ARROW	16	12	0.10	19
PED. SIGNAL	-	25	1.00	-
CONTROLLER	1	100	1.00	100
ILLUM. SIGN	-	40	0.50	-
STREET LIGHTS	-	250	0.50	-
FLASHER	1	25	0.50	13
TOTAL =				299

ENERGY COSTS BILLED TO: IDOT/DIVISION OF HIGHWAY DISTRICT 1 (ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, IL 60196-0196

ENERGY SUPPLY CONTACT: JULIE SNOW PHONE: 1-866-639-3532 COMPANY: COMMONWEALTH EDISON

REVISIONS	
NAME	DATE
RWL	7-1-04
RWL	10-1-04
NJP	4-28-06

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL
 CABLE AND PHASE DESIGNATION DIAGRAM
 OAK PARK AVENUE / 147 ST AT
 JUSTAMERE ROAD

SCALE: NONE
 DATE: 6-1-04

DRAWN BY: UKB
 DESIGNED BY: RWL
 CHECKED BY: RWL

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CONTRACT NO. 83727
 DRAWING NO. TS-100
 DATE: 6-1-04
 PROJECT: I-55/US-41
 COUNTY: COOK
 SHEET NO. 79 OF 116