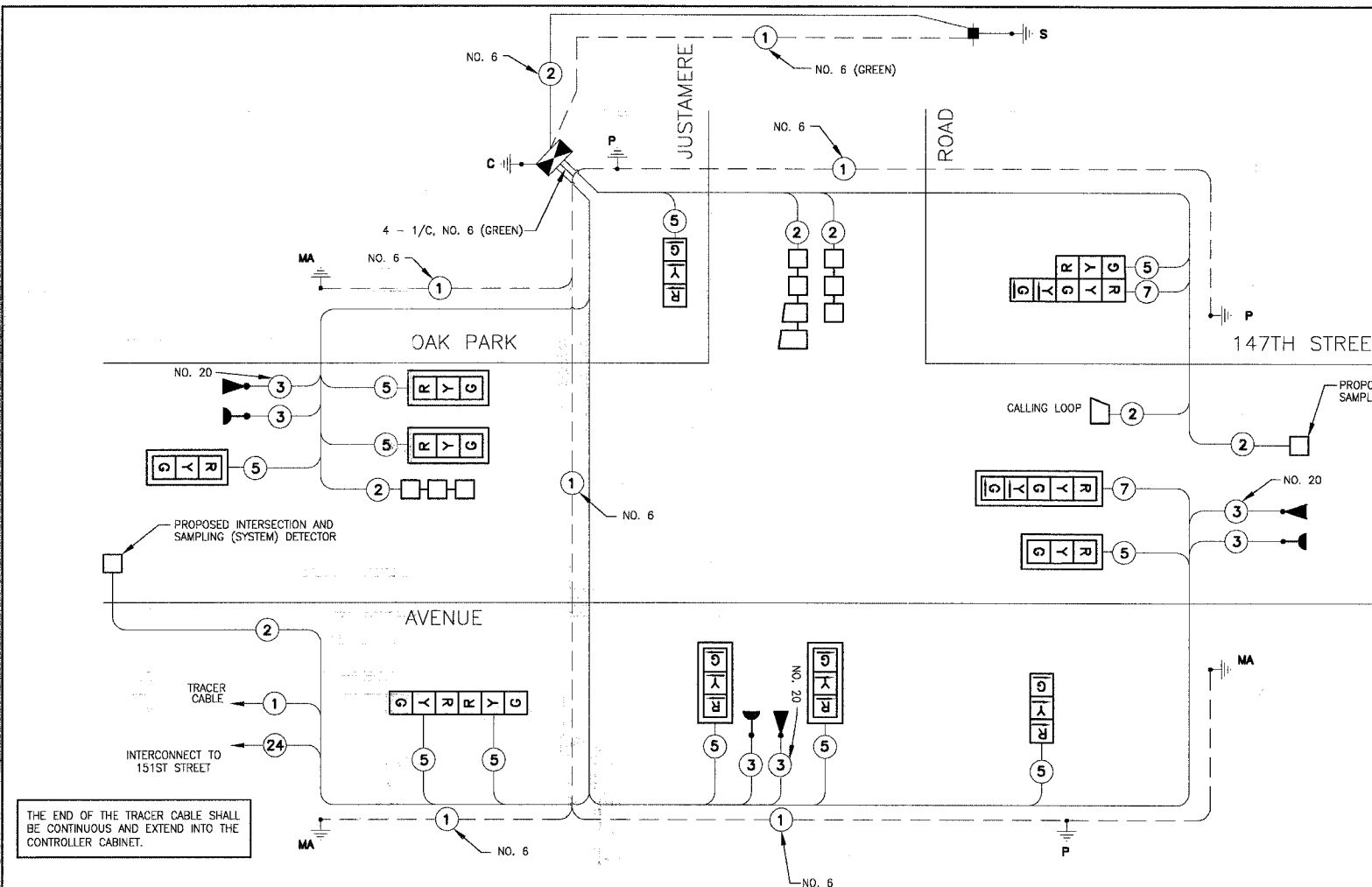


F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2774	99-00073-00-WR	COOK	118	79
STA.	TO STA.	ILLINOIS		FED AID PROJECT CMM-7003 (750)
FED. ROAD DIST. NO. 1		ILLINOIS		FED AID PROJECT CMM-7003 (750)
CONTRACT NO. 83727				



CABLE DIAGRAM

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	1027
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1393
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	345
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1109
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	357
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, LOUVERED	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	6
DETECTOR LOOP, TYPE 1	FOOT	617
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	622
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, 1-5 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	13	MAST ARM (L) POLE	20'+L-2=
M - M. ARM POLE	24"	SIGNAL POST	2	BRACKET MOUNTED	13
30"	10"	CONTROLLER CAB.	6	PED. PUSHBUTTON	4
	30"	FIBER OPTIC	13	ELECTRIC SERVICE	13.5
		ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

CABLE PLAN LEGEND

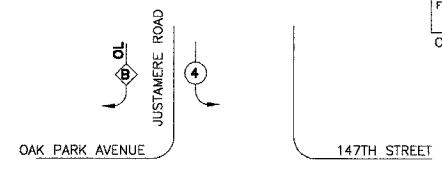
EXISTING	PROPOSED	DESCRIPTION
(Symbol)	(Symbol)	8" (200mm) TRAFFIC SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) TRAFFIC SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(Symbol)	(Symbol)	CONTROLLER CABINET
(Symbol)	(Symbol)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

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

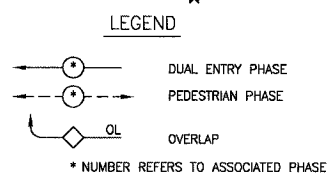
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	WATTAGE	% OPERATION	REMARKS
SIGNAL (RED)	9	17	0.50	
(YELLOW)	9	25	0.25	
(GREEN)	9	15	0.25	
ARROW	16	12	0.10	
PED. SIGNAL	-	25	1.00	
CONTROLLER	1	100	1.00	
ILLUM. SIGN	-	40	0.50	
STREET LIGHTS	-	250	0.50	
FLASHER	1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

ENERGY COSTS BILLED TO: DISTRICT 1
 ADDRESS: 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-0196
 ENERGY SUPPLY CONTACT: JULIE SNOW
 PHONE: 1-866-639-3532
 COMPANY: COMMONWEALTH EDISON

CONTROLLER SEQUENCE

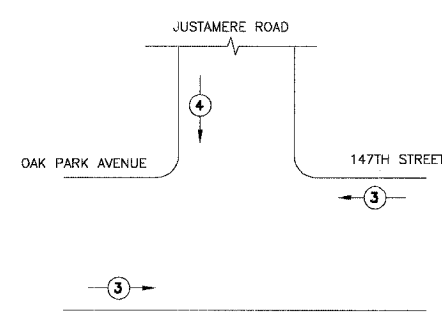


PHASE DESIGNATION DIAGRAM



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	← →

EMERGENCY VEHICLE PREEMPTION SEQUENCE

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

I:\OAKPK\2004\DWG\20146-DBL.dwg
 Plotted: 4/30/06 @ 6:54pm By: 231urb
 Date: 4/30/04, By: Baxter & Woodman, Inc.
 Title: Illinois - Professional Design Firm
 Sheet No.: 164-001321 Expires: 4/30/05