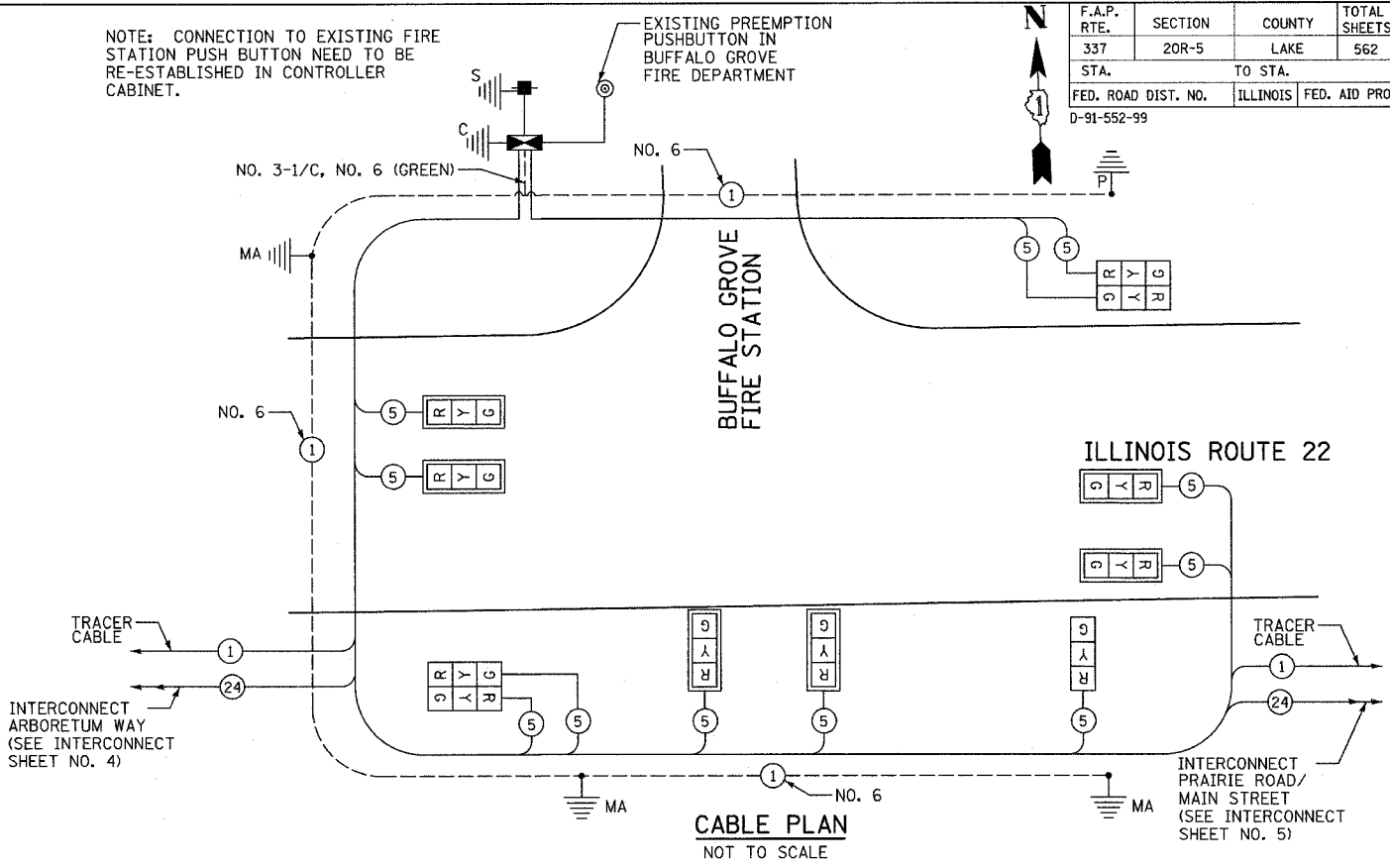
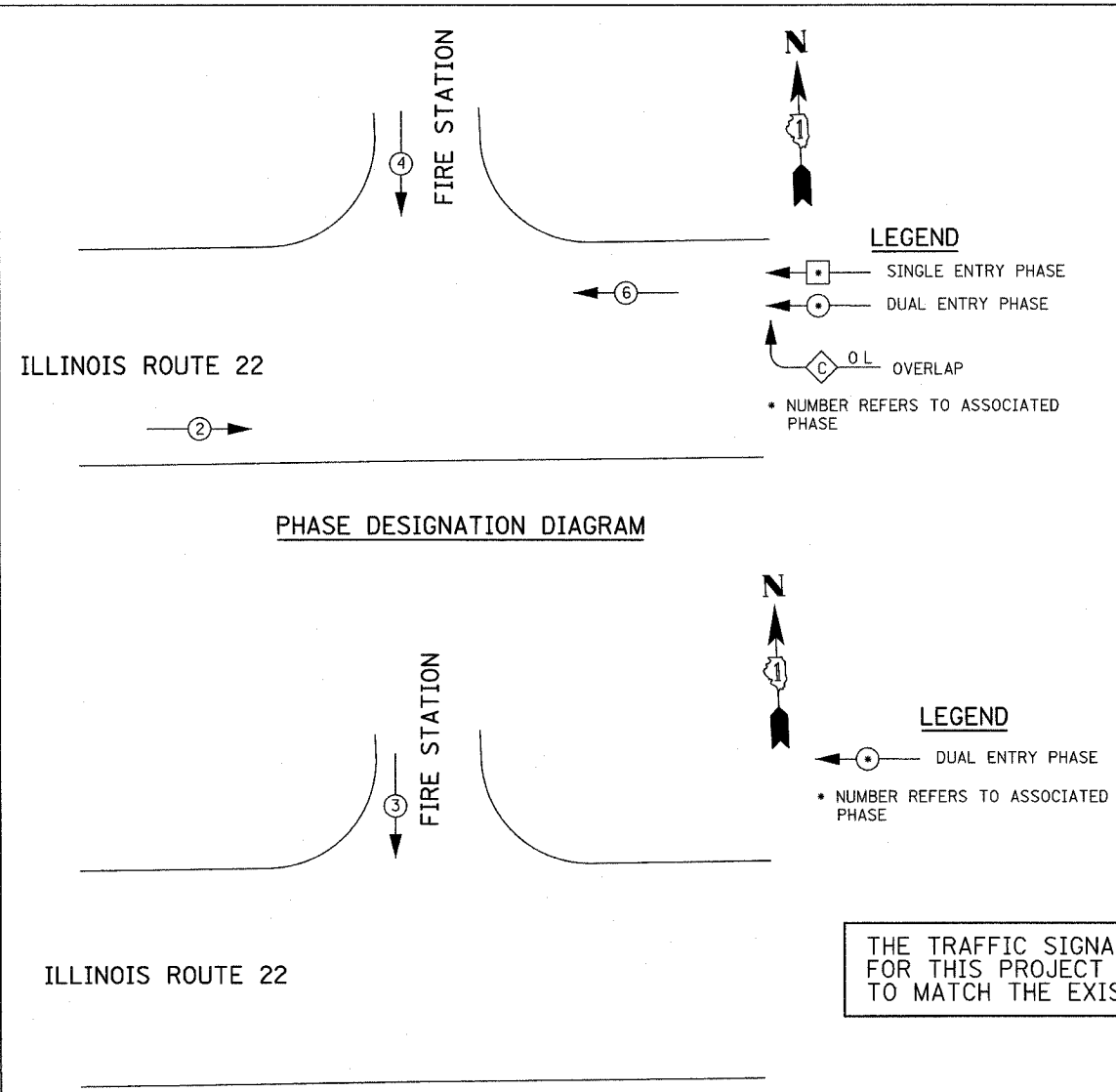


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	352
STA.		TO STA.		
D-91-552-99		ILLINOIS FED. AID PROJECT		
60881				

NOTE: CONNECTION TO EXISTING FIRE STATION PUSH BUTTON NEED TO BE RE-ESTABLISHED IN CONTROLLER CABINET.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

SCHEDULE OF QUANTITIES

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	11	135	15	0.25	41.25
ARROW	0	135	12	0.10	0
PED. SIGNAL	0	90	25	1.00	0
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	

QTY	UNIT	ITEM DESCRIPTION
53	METER	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL
4	METER	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL
12	METER	CONDUIT PUSHED, 65MM DIA., GALVANIZED STEEL
16	METER	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL
3	EACH	HANDHOLE
57	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER IN TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER - FIBER OPTIC
609	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.25 METER
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 7.31 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 7.92 METER
1.2	METER	CONCRETE FOUNDATION, TYPE A
1.2	METER	CONCRETE FOUNDATION, TYPE D
9	METER	CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER
3	EACH	DRILL EXISTING HANDHOLE
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, POLE MOUNT
128	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C (GREEN)
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	REMOVE EXISTING HANDHOLE
6	EACH	REMOVE EXISTING CONCRETE FOUNDATION

FLASHER 0.05
 ENERGY COSTS TO: TOTAL = 303.5
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: DOTTI PROSEN
 PHONE: (847) 816-5529
 COMPANY: COMED

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' + L - 2 = (6mH - 0.6m)
E - MAST ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	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)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) SCHEDULE OF QUANTITIES CABLE PLAN AND PHASE DESIGNATION DIAGRAM ILLINOIS ROUTE 22 AT FIRE STATION SCALE: NONE DATE: 03-22-2004
NAME	DATE	
		DRAWN BY: AMB DESIGNED BY: AMB CHECKED BY: JPS

DATE	BY	DATE	BY
FINAL SURVEY PLOTTED			
NOTE BOOK TEMPLATE			
AREAS CHECKED			
NO.			

DATE	BY	DATE	BY
ORIGINAL SURVEY PLOTTED			
NOTE BOOK TEMPLATE			
AREAS CHECKED			
NO.			