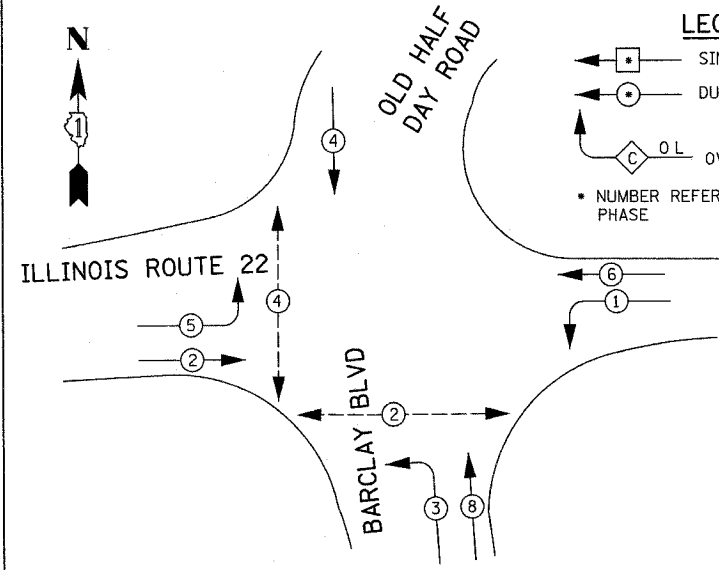
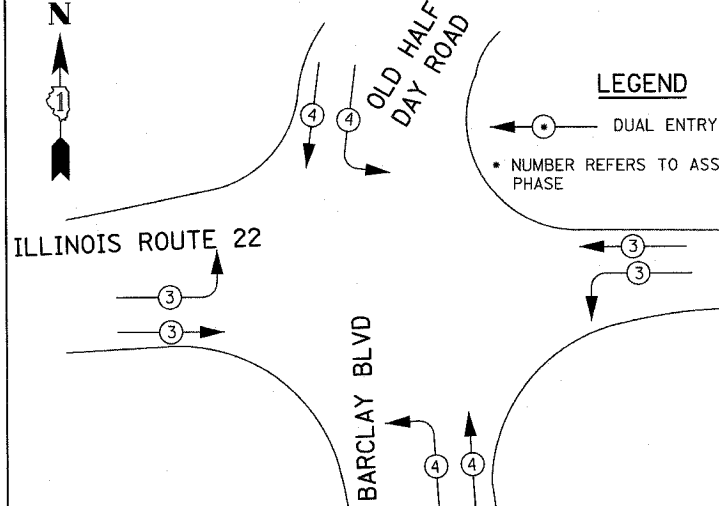


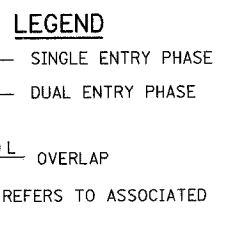
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	374
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT
0-91-552-99				60881



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE



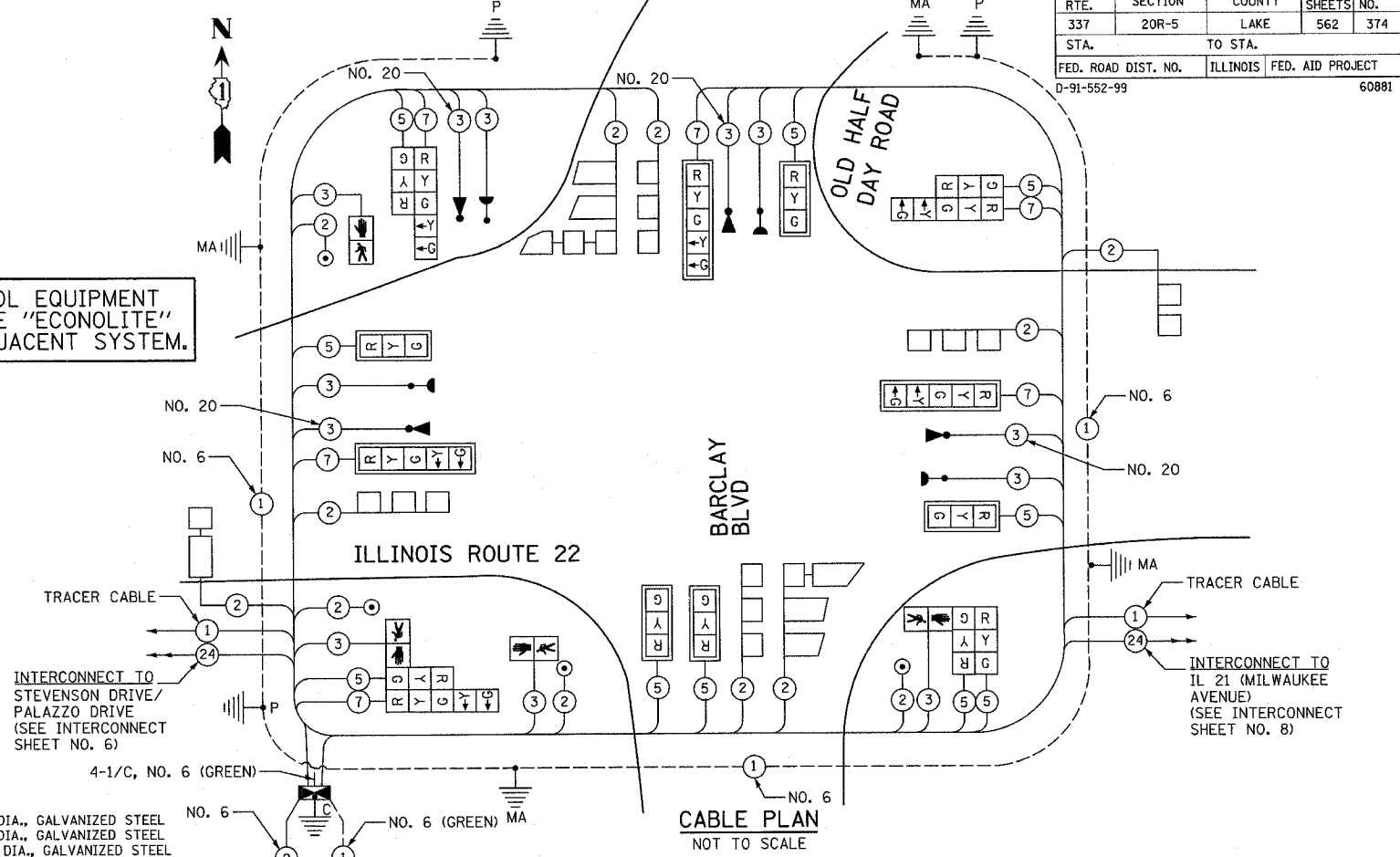
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	← →

SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
1.7	SO M	SIGN PANEL - TYPE 1
5.6	SO M	SIGN PANEL - TYPE 2
212	METER	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL
27	METER	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL
8	METER	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL
104	METER	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
247	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER IN TYPE IV CABINET, SPECIAL TRANSCEIVER - FIBER OPTIC
138	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 2C
464	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3C
547	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C
450	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7C
554	METER	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO.14, 1 PAIR
69	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.85 METER
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 5.45 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 6.09 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 9.75 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 11.58 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 14.63 METER
4.8	METER	CONCRETE FOUNDATION, TYPE A
1.2	METER	CONCRETE FOUNDATION, TYPE D
11.2	METER	CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER
4	METER	CONCRETE FOUNDATION, TYPE E, 900MM DIAMETER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
8	EACH	INDUCTIVE LOOP DETECTOR
*3	EACH	LIGHT DETECTOR
*1	EACH	LIGHT DETECTOR AMPLIFIER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, GROUND MOUNT
432	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C (GREEN)
*313	METER	ELECTRIC CABLE IN CONDUIT, NO. 20, 3/C, TWISTED, SHIELDED
5	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED
300	METER	PREFORMED DETECTOR LOOP
8	EACH	REMOVE EXISTING HANDHOLE
7	EACH	REMOVE EXISTING CONCRETE FOUNDATION



CABLE PLAN
NOT TO SCALE

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 CONNECTION
⊗	⊗	MAGNETIC DETECTOR
⊗	⊗	EMERGENCY VEHICLE LIGHT DETECTOR
⊗	⊗	CONFIRMATION BEACON
⊗	⊗	PUSHBUTTON DETECTOR
⊗	⊗	VEHICLE DETECTOR, INDUCTION LOOP
⊗	⊗	VEHICLE DETECTOR, INDUCTION LOOP

EXISTING	PROPOSED	DESCRIPTION
⊗	⊗	SIGNAL FACE WITH BACKPLATE
⊗	⊗	"P" INDICATES PROGRAMMED HEAD
⊗	⊗	RAILROAD CONTROL CABINET
⊗	⊗	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
⊗	⊗	ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
⊗	⊗	GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN)
⊗	⊗	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2-MM12F & SM12F

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

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE	% OPERATIONS	TOTAL WATTAGE	
		INCAND.	LED		
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	16	135	15	0.25	60
ARROW	10	135	12	0.10	12
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	
ILLUM. SIGN		252		0.05	

FLASHER 0.05

ENERGY COSTS TO: TOTAL = 408

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)		
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

*NOTE: 100% OF COST TO THE LINCOLNSHIRE, RIVERWOODS FIRE PROTECTION DISTRICT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)
SCHEDULE OF QUANTITIES
CABLE PLAN AND PHASE DESIGNATION DIAGRAM
ILLINOIS ROUTE 22 AT BARCLAY BOULEVARD/ OLD HALF DAY ROAD
SCALE: NONE
DATE: 03-22-2004

DRAWN BY: AMB
DESIGNED BY: AMB
CHECKED BY: JPS