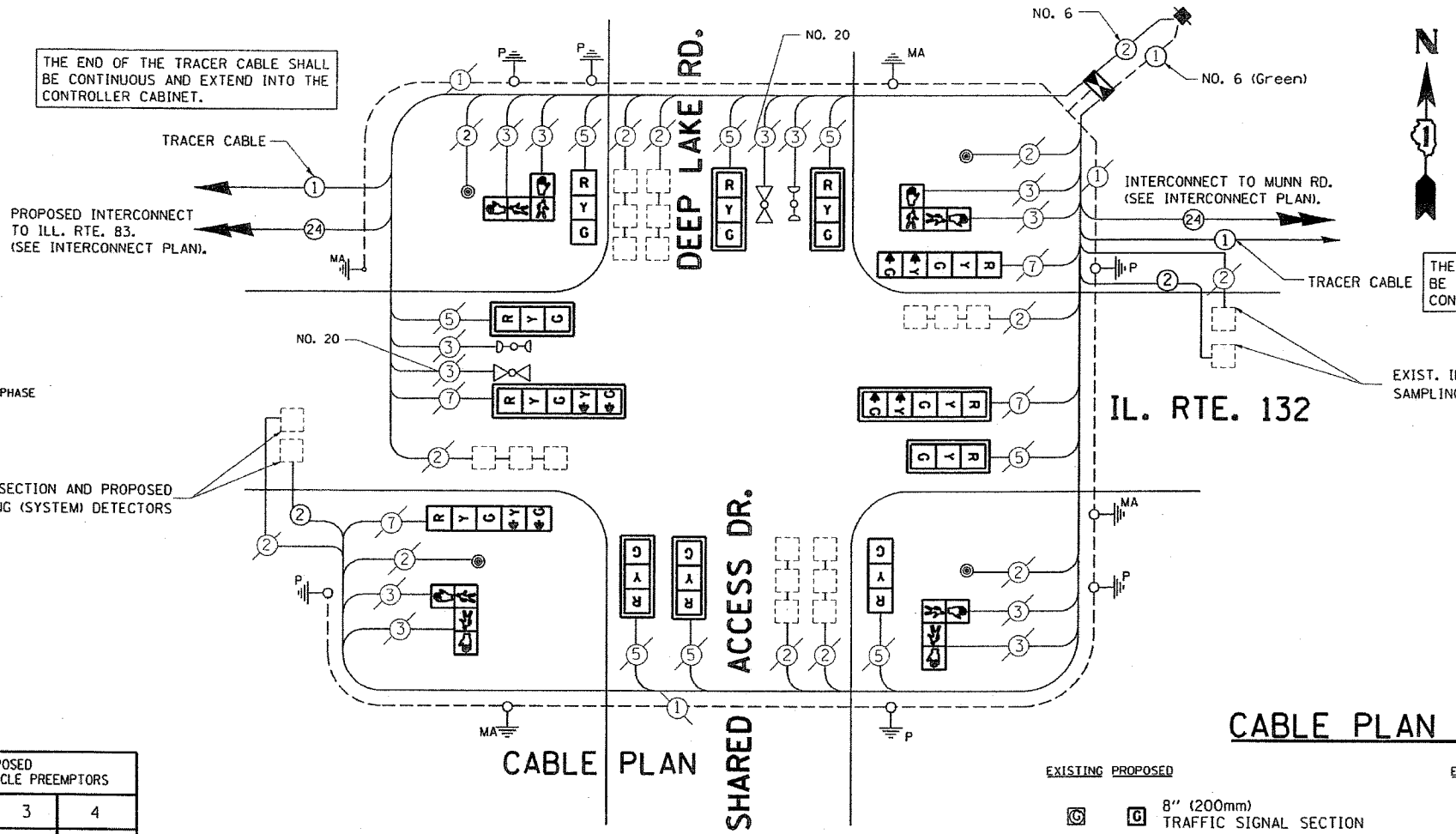
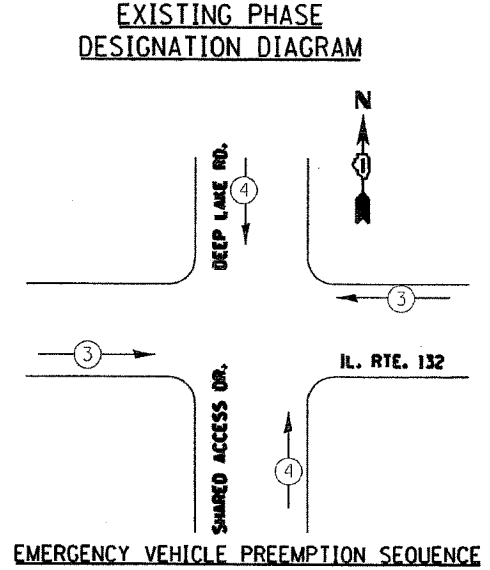
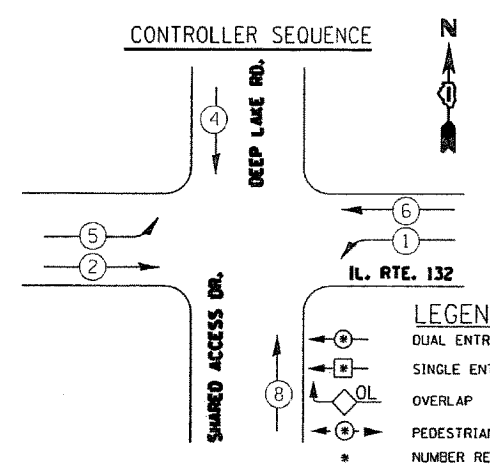


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	2004-121 TS	LAKE	19	10
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62887				



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

CABLE PLAN LEGEND

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

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	.17
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	.17
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	.17
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1 C	FOOT	21
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	855
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2 C	FOOT	21
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED.	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED.	EACH	6
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED.	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED.	EACH	2
PEDESTRIAN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MT. PUSH-BUTTON	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	4
INDUCTIVE LOOP DETECTOR	EACH	10
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TRANSCEIVER-FIBER OPTIC	EACH	1
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	21
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11	135	17	0.50	93.50
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	8	90	25	1.00	720.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					646.85

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" (6m+L-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		
	24" (600mm)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
	30" (750mm)	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: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES
IL. RTE. 132 @ DEEP LAKE RD.
 SCALE: VERT. 1"=20'
 HORIZ. 1"=20'
 DATE 5/3/2006
 DRAWN BY: BCK
 DESIGNED BY: BCK
 CHECKED BY: DAD