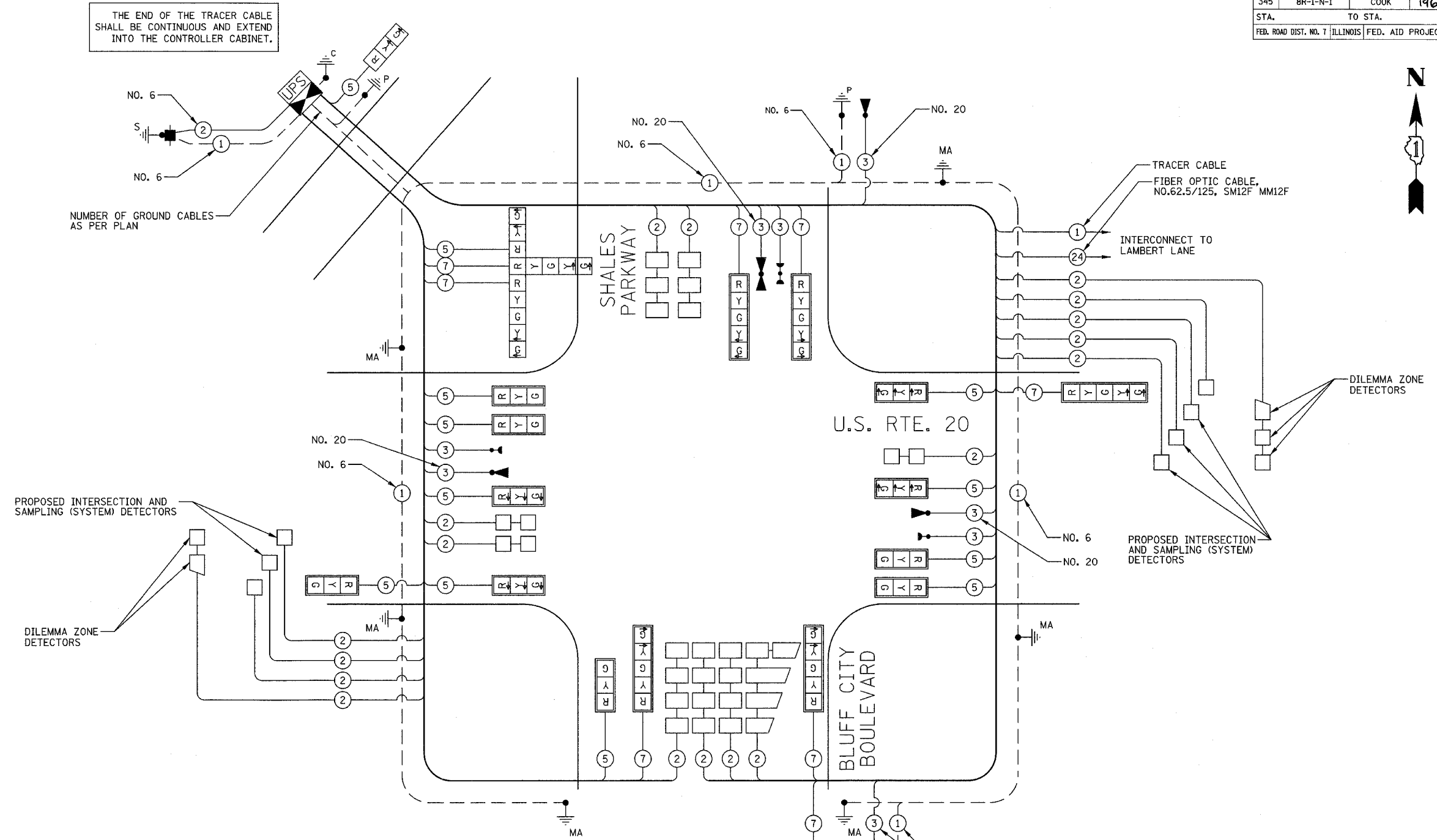


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	BR-1-N-1	COOK	196	83
STA.		TO STA.		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

**CABLE PLAN LEGEND**

- |          |          |   |   |
|----------|----------|---|---|
| EXISTING | PROPOSED |   |   |
|          |          | 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                                    |
|          |          | DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |   |
|          |          |   | MICROWAVE VEHICLE SENSOR  |
|          |          | 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                         |
|          |          |   | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)                  |
|          |          |   | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F             |
|          |          |   | UNINTERRUPTIBLE POWER SUPPLY  |

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					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	20		17	0.50	170
(YELLOW)	20		25	0.25	125
(GREEN)	20		15	0.25	75
ARROW	16		12	0.10	19
CONTROLLER	1		100	1.00	100
FLASHER				0.50	
TOTAL =					489

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, IL 60196-1096  
CONTACT: CHRISTIE BUTTS  
PHONE: (847) 608-2331  
COMPANY: COM ED

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 (2.0)
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)	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)
36" (900mm)	15 (4.6)	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 CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CABLE PLAN**  
U.S. RTE. 20 (LAKE STREET)  
& SHALES PKWY./BLUFF CITY BLVD.  
SCALE: NOT TO SCALE  
DATE: 12/14/2007  
DRAWN BY: CEC  
DESIGNED BY: BRD  
CHECKED BY: JUE