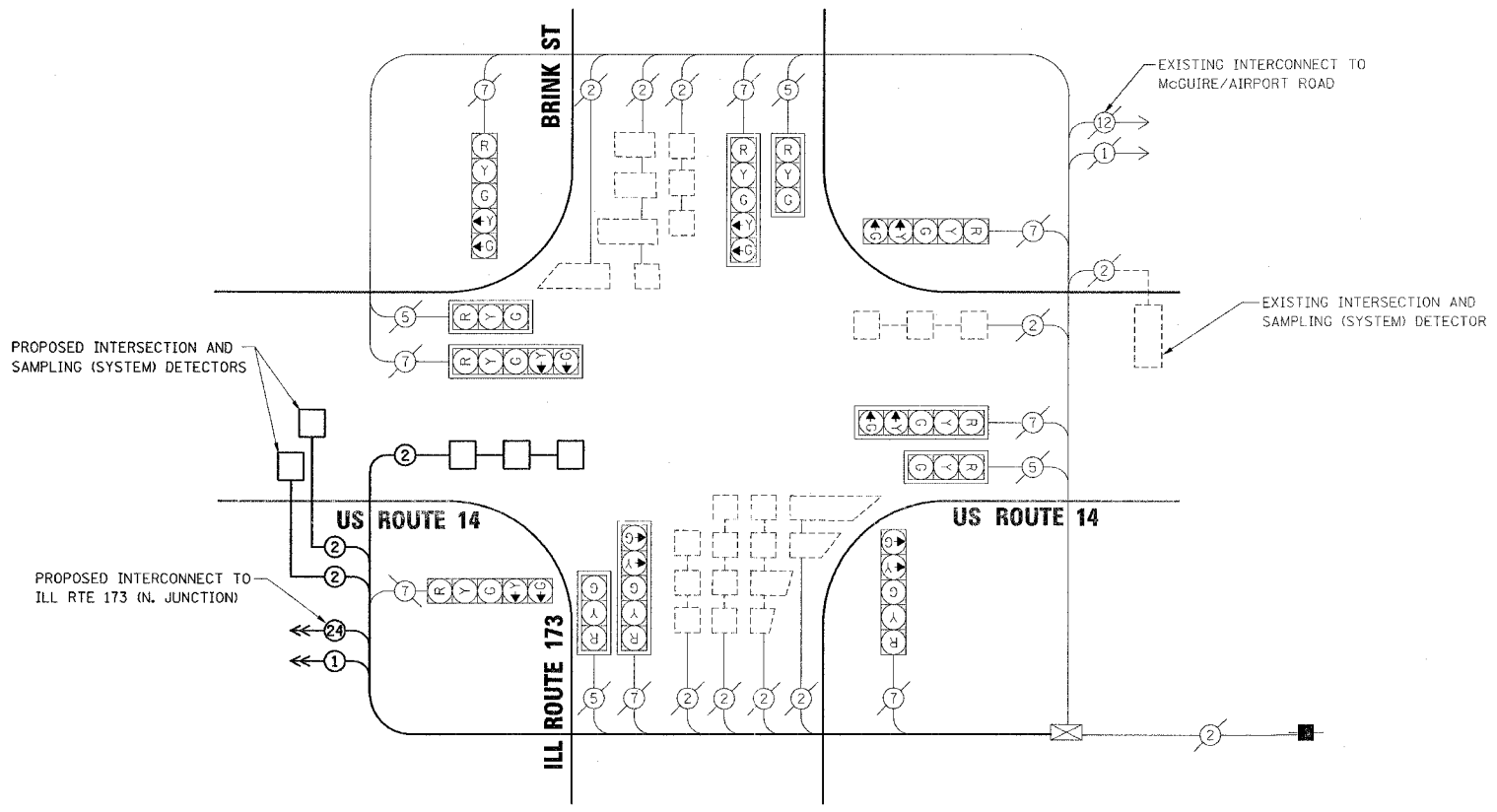


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	29R-T	McHENRY	88	35
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT No. 62202

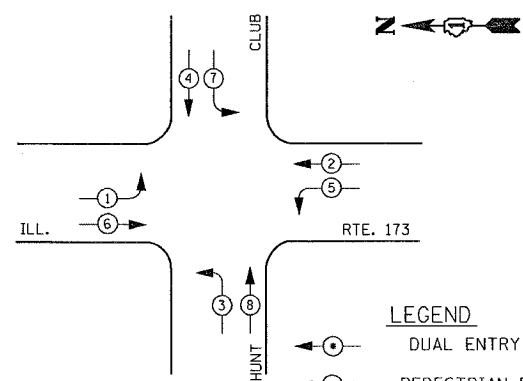
CABLE PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER CABINET		
SERVICE INSTALLATION		
TELEPHONE CONNECTION		
GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER		
GROUND ROD AT POST OR MAST ARM POLE		
GROUND ROD AT ELECTRIC SERVICE INSTALLATION		
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MMI2F SM12F		
DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.		
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		
8" (200mm) TRAFFIC SIGNAL SECTION		
12" (300mm) TRAFFIC SIGNAL SECTION		
12" (300mm) PEDESTRIAN SIGNAL SECTION		
12" (300mm) PEDESTRIAN SIGNAL SECTION		
ILLUMINATED SIGN "NO LEFT TURN"		
ILLUMINATED SIGN "NO RIGHT TURN"		
PUSHBUTTON DETECTOR		
DETECTOR LOOP		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		



CABLE PLAN

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE

* NUMBER REFERS TO ASSOCIATED PHASE

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
1	EACH	HANDHOLE
4	EACH	DRILL EXISTING HANDHOLE
1	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	REMOVE EXISTING HANDHOLE
43	METER	CONDUIT IN TRENCH, 50mm DIA., GALVANIZED STEEL
32.5	METER	CONDUIT ATTACHED TO STRUCTURE, 50mm DIA., GALVANIZED STEEL
325	METER	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
1	EACH	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 350mm X 300mm X 150mm
50	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
60	METER	DETECTOR LOOP, TYPE I

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	810
(YELLOW)	12	135	25	0.25	405
(GREEN)	12	135	15	0.25	405
ARROW	16	135	12	0.10	216
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	--
FLASHER				0.50	--
TOTAL =					1936

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	20'4L-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)
		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)

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE MODIFICATION PLAN, PHASE
 DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES
 U.S. RTE. 14
 IL 173 (SOUTH JUNCTION) / BRINK ST
 SCALE: _____ DRAWN BY: BCK
 DATE: 10/30/03 DESIGN BY: SPB
 CHECKED BY: DAD