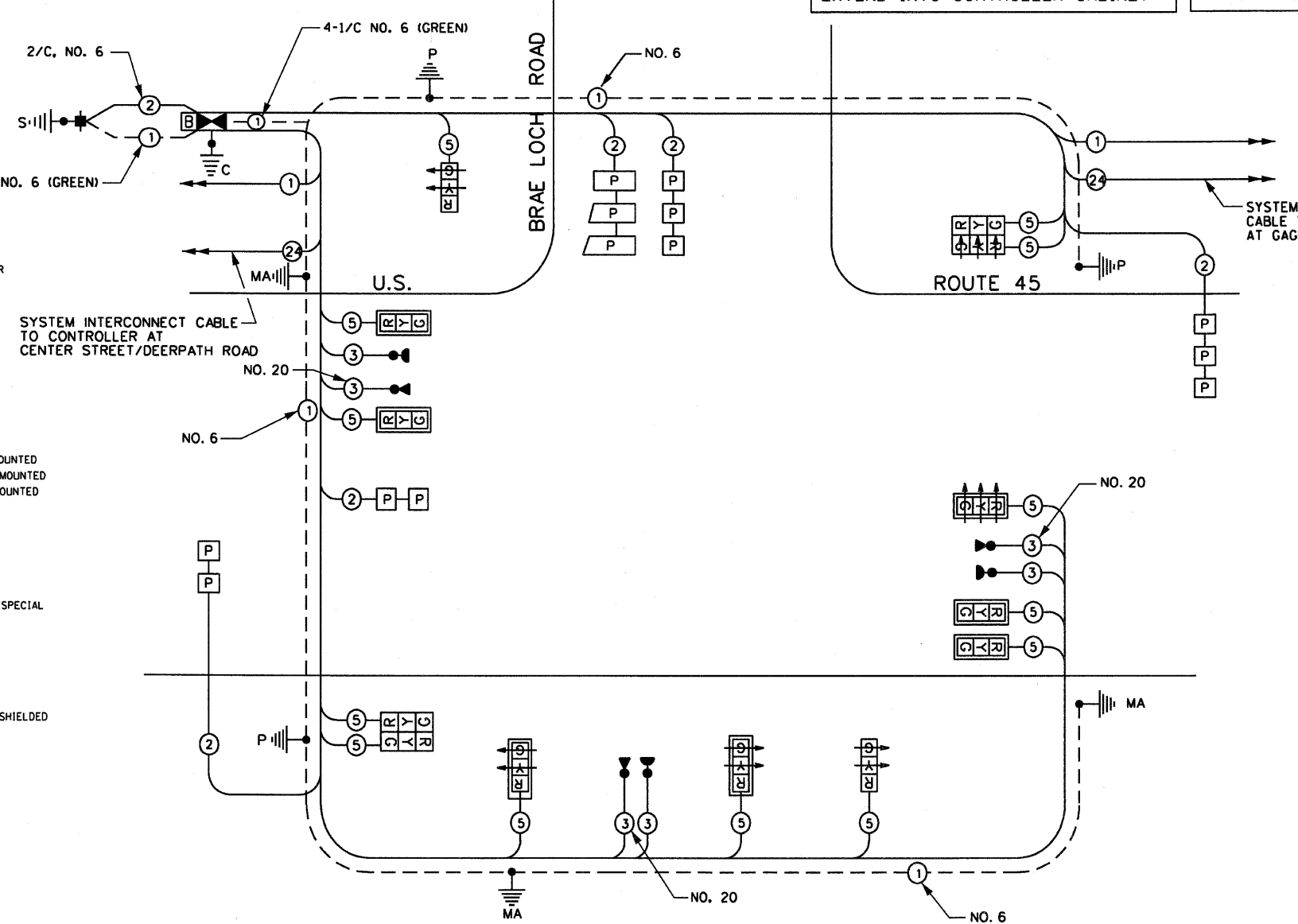


RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
344	(46-15&47)WRS-2	LAKE	234	140
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60956				

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
44	SO. FT.	SIGN PANEL-TYPE 1
469	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
192	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
10	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
72	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
221	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
2	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
631	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
2560	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1074	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR
61	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
571	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
2	EACH	TRAFFIC SIGNAL POST, 14 FT.
1	EACH	TRAFFIC SIGNAL POST, 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
12	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
30	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
15	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
7	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
7	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
5	EACH	INDUCTIVE LOOP DETECTOR
561	FOOT	PREFORMED DETECTOR LOOP
1	FOOT	TEMPORARY TRAFFIC SIGNAL INSTALLATION
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1	EACH	SERVICE INSTALLATION, POLE MOUNT
586	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
6	EACH	REMOVE EXISTING HANDHOLE
7	EACH	REMOVE EXISTING CONCRETE FOUNDATION
631	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
1	FOOT	TEMPORARY TRAFFIC SIGNAL TIMING

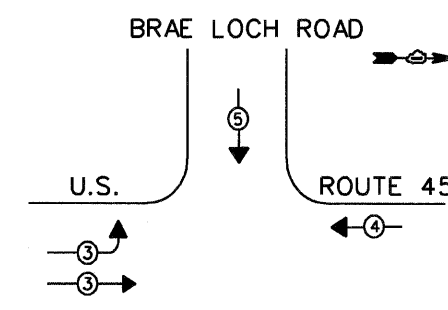


CABLE PLAN
NOT TO SCALE

CABLE PLAN LEGEND

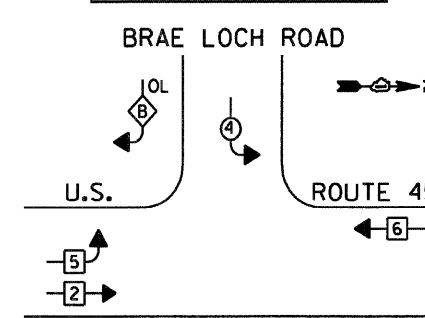
EXISTING	PROPOSED	DESCRIPTION
⊗	⊗	8" TRAFFIC SIGNAL SECTION
⊗	⊗	12" TRAFFIC SIGNAL SECTION
⊗	⊗	12" PEDESTRIAN SIGNAL SECTION
⊗	⊗	12" PEDESTRIAN SIGNAL SECTION
⊗	⊗	CONTROLLER CABINET
⊗	⊗	SERVICE INSTALLATION
⊗	⊗	VEHICLE DETECTOR, INDUCTION LOOP
P	P	PREFORMED LOOP
⊗	⊗	EMERGENCY VEHICLE LIGHT DETECTOR
⊗	⊗	CONFIRMATION BEACON
⊗	⊗	PUSHBUTTON DETECTOR
②	②	DENOTES NUMBER OF CONDUCTORS
		ALL CABLE NO. 14 EXCEPT AS INDICATED
		ALL LOOP DETECTOR CABLE TO BE SHIELDED
RYCG	RYCG	SIGNAL FACE WITH BACKPLATE
"P"	"P"	"P" INDICATES PROGRAMMED HEAD
H/C	H/C	NO. 62.5/125, 12MM, 12SM FIBER OPTIC CABLE
①	①	NO. 14 1/C TRACER CABLE
H/C	H/C	GROUND ROD AT HANDHOLE
H/C	H/C	DOUBLE HOLE, OR CONTROLLER
P	P	GROUND ROD AT POST OR MAST ARM POLE
P	P	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
---	---	GROUND CABLES NO.6 1C GREEN
⊗	⊗	UNINTERRUPTIBLE POWER SUPPLY

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	←	↘

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

LEGEND

⊗	DUAL ENTRY PHASE
⊗	SINGLE ENTRY PHASE
x	NUMBER REFERS TO ASSOCIATED PHASE

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	x WATTAGE		x % OPERATION	
		INCAND.	LED		
SIGNAL (RED)	13	135	17	0.50	111
(YELLOW)	13	135	25	0.25	82
(GREEN)	13	135	15	0.25	49
PED. SIGNAL	0	90	25	1.00	0
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		64		0.05	0
FLASHER	0			0.50	0
TOTAL =					342

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SHAUMBURG, IL 60196

ENERGY SUPPLY CONTACT: MS. LOIS HICKS
PHONE: (847) 816-5489
COMPANY: COMMONWEALTH EDISON COMPANY

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)
C-CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20+L-2=
E-MAST ARM POLE	10 (3.0)	SIGNAL POST	2 (4.0)	BRACKET MOUNTED	(6m+L-0.6m)=
24" (600 mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	13 (4.0)
30" (750 mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	4 (1.2)
36" (900 mm)	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)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
SCHEDULE OF QUANTITIES
PHASE DESIGNATION DIAGRAM
U.S. ROUTE 45 & BRAE LOCH ROAD

HORIZ. 10 0 10
SCALE IN FEET

DATE 12/14/09
DRAWN BY MB/AJP
CHECKED BY KMM



12/14/09 g:\401\2000\0005302\cadd\sheet\cableplan\sheet_98.sht