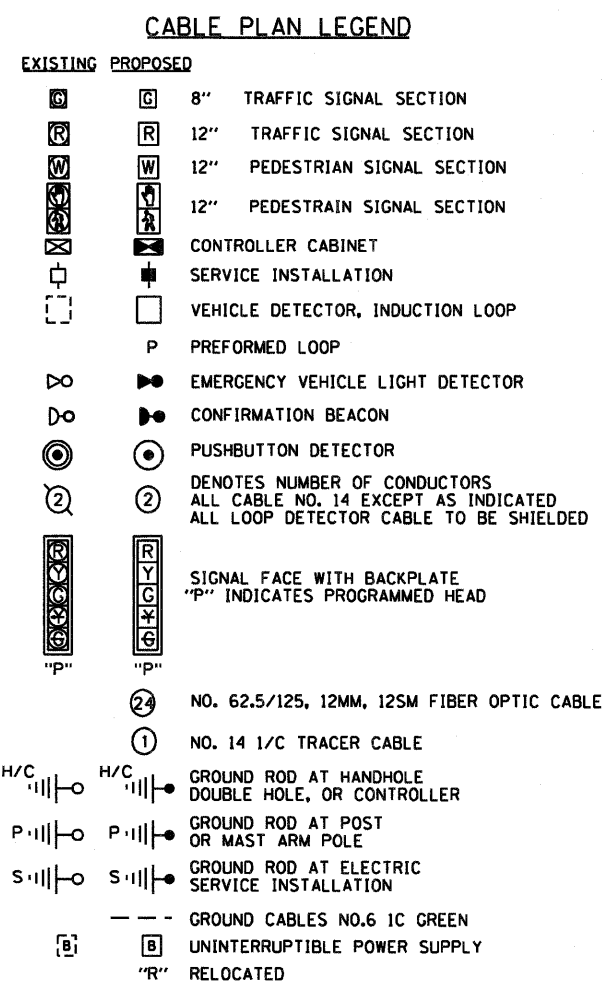
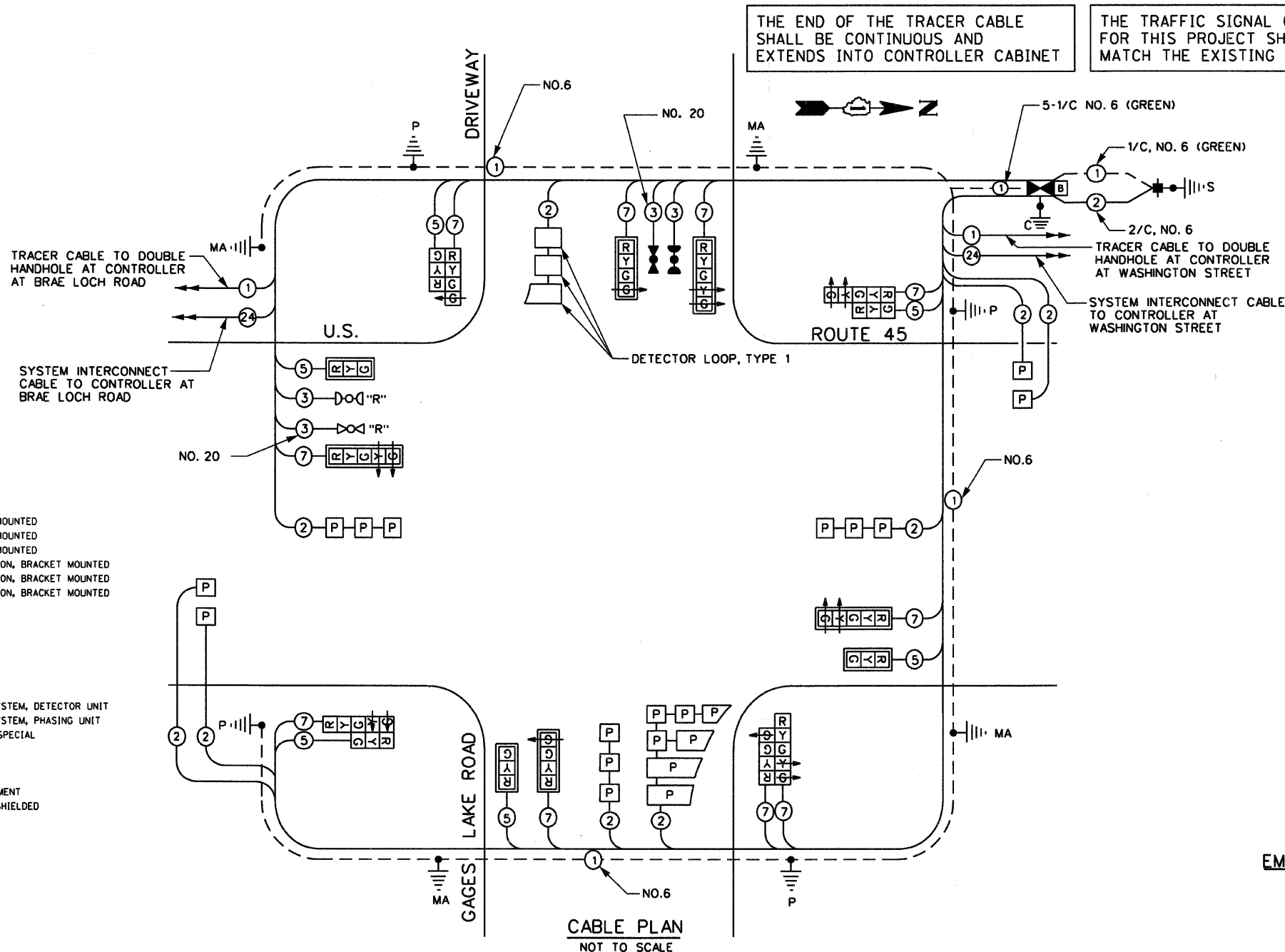


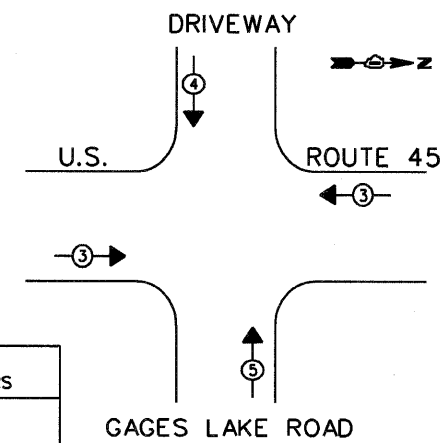
RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
344	(46-15&47)WRS-2	LAKE	234	145
STA.	TO STA.			
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 60956				

SCHEDULE OF QUANTITIES

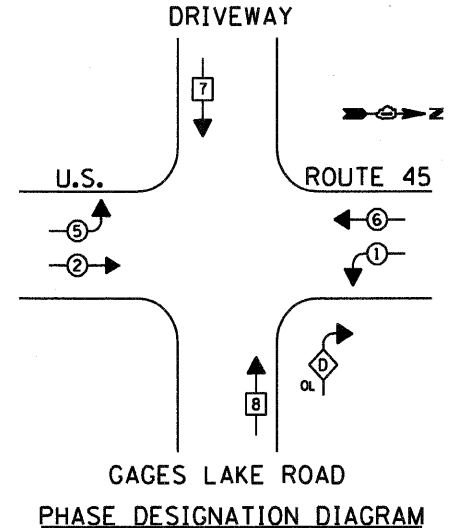
QUANTITY	UNIT	ITEM
41	SO. FT.	SIGN PANEL-TYPE 1
442	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
129	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
45	FOOT	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
160	FOOT	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
275	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
3	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
280	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1209	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
1767	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2407	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO. 14 1 PAIR
34	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
593	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
1	EACH	TRAFFIC SIGNAL POST, 15 FT.
3	EACH	TRAFFIC SIGNAL POST, 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
30	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
30	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
3	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 4-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-4 SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
179	FOOT	DETECTOR LOOP, TYPE 1
961	FOOT	PREFORMED DETECTOR LOOP
1	FOOT	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER-FIBER OPTIC
1	EACH	SERVICE INSTALLATION, POLE MOUNT
611	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT
280	FOOT	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING



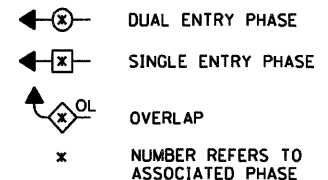
EMERGENCY VEHICLE PREEMPTION SEQUENCE



CONTROLLER SEQUENCE



LEGEND



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4	5	
MOVEMENT	↔	↓	↑	

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

TYPE	NO. LAMPS	x WATTAGE		x % OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	16	135	17	0.50	136
(YELLOW)	16	135	25	0.25	100
(GREEN)	20	135	15	0.25	75
ARROW	12	135	12	0.10	14
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 =					411

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SHALMBURG, 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)=
	15 (4.6)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	13 (4.0)
	36" (900 mm)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	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)
			1 (0.5)	POST MOUNTED	6 (1.8)

REVISIONS

NAME	DATE

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

HORIZ. 10 0 10 DATE 12/14/09
SCALE IN FEET DRAWN BY MB/AJP
CHECKED BY KMM