

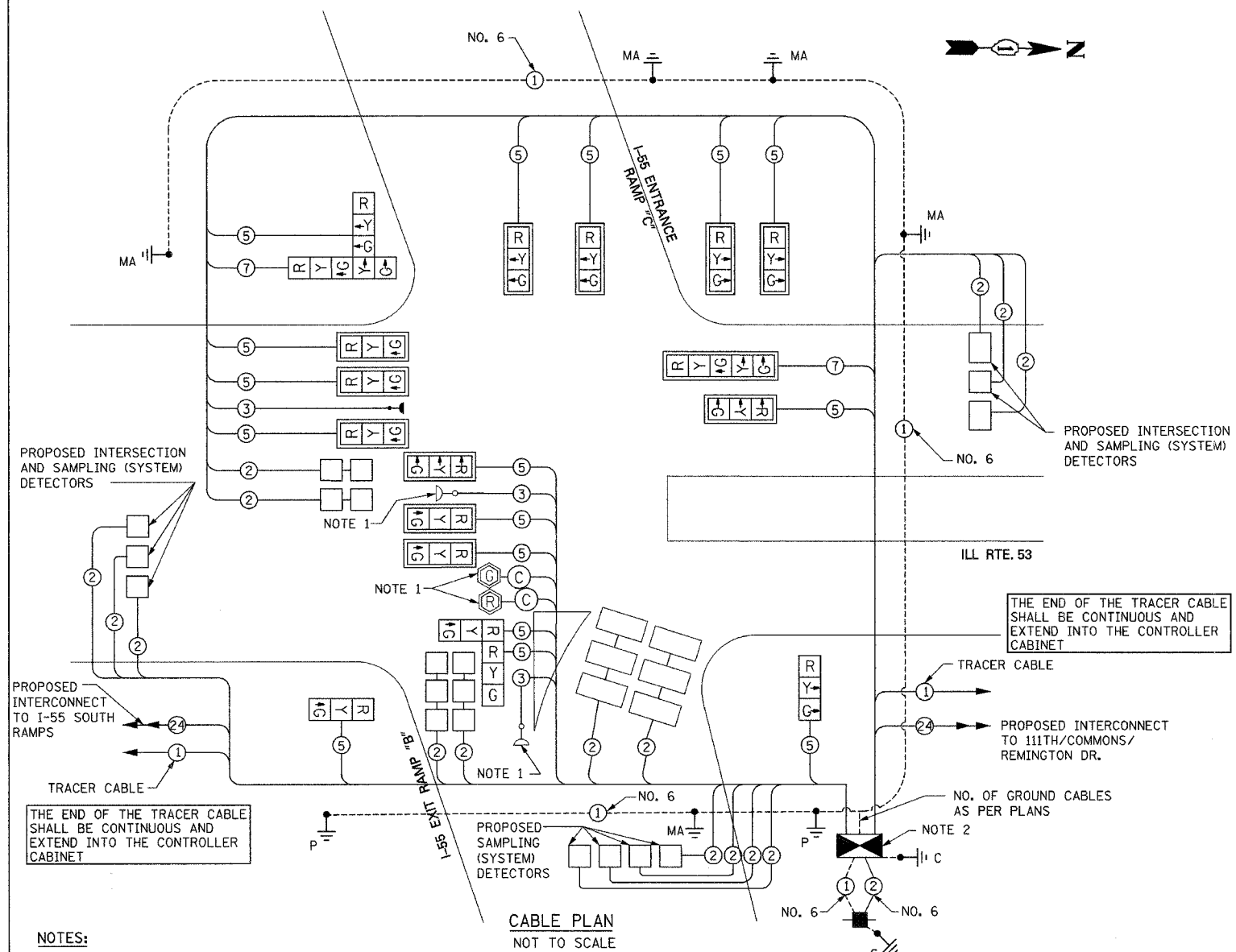
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2002-022 K	WILL	172	95
STA. 10+00		TO STA. 22+96.05		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62389				

SCHEDULE OF QUANTITIES

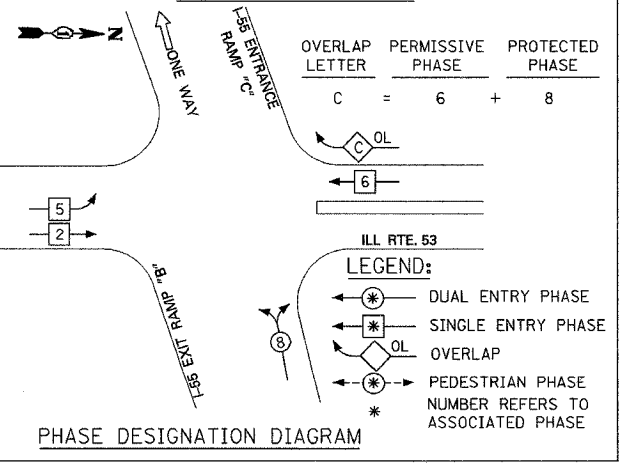
ITEM	UNIT	QNTY.
SIGN PANEL TYPE 1	SQ FT	25
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	900
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	175
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	54
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	294
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	428
HANDHOLE	EACH	9
HEAVY-DUTY HANDHOLE	EACH	1
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1129
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
TRANSCIVER - FIBER OPTIC	EACH	1
** ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	810
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5300
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	800
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	5380
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	325
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1480
TRAFFIC SIGNAL POST GALVANIZED STEEL 14 FT	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	65
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	16
DETECTOR LOOP TYPE 1	FOOT	435
PREFORMED DETECTOR LOOP	FOOT	846
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
** RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
** RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	11
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
** COAXIAL CABLE IN CONDUIT	FOOT	264
** 100% COST TO THE VILLAGE OF BOLINGBROOK		

CABLE PLAN LEGEND

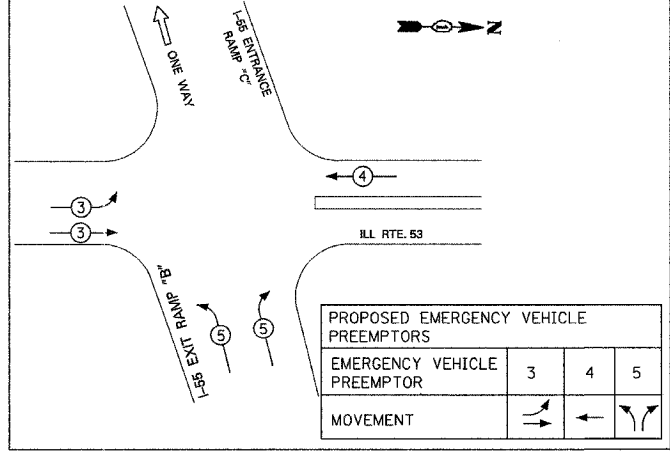
EXISTING	PROPOSED	DESCRIPTION
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
Y	Y	12" (300mm) PEDESTRIAN SIGNAL SECTION
⊠	⊠	CONTROLLER CABINET
■	■	SERVICE INSTALLATION
□	□	VEHICLE DETECTOR, INDUCTION LOOP
T	T	TELEPHONE INSTALLATION
⊠	⊠	MAGNETIC DETECTOR
⊠	⊠	EMERGENCY VEHICLE LIGHT DETECTOR
⊠	⊠	CONFIRMATION BEACON
⊠	⊠	PUSHBUTTON DETECTOR
①	②	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
①	①	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
②④	②④	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SMI2F
R	R	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD.
Y	Y	
G	G	
⊠	⊠	RAILROAD CONTROL CABINET
⊠	⊠	ILLUMINATED SIGN "NO LEFT TURN"
⊠	⊠	ILLUMINATED SIGN "NO RIGHT TURN"
H/C	C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P	P	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
⊠	⊠	RADIO ANTENNA
⊠	⊠	GPS ANTENNA
⊠	⊠	COAXIAL CABLE



CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

- NOTES:**
- INSTALL EXISTING CONFIRMATION BEACON, RADIO ANTENNA AND GPS ANTENNA TO NEW SIGNAL INSTALLATION.
 - INSTALL EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CABINET.
 - EXISTING MASTER CONTROLLER IS LOCATED AT ILL. RTE. 53 AND BRIARCLIFF RD.

TYPE	NO. LAMPS	WATTAGE (INCAND)	LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	135	17	0.50	153
(YELLOW)	18	135	25	0.25	112.5
(GREEN)	18	135	15	0.25	67.5
ARROW	4	135	12	0.10	4.80
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84	35	0.05	
FLASHER		135	25	0.50	
TOTAL =					437.8

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK (FT.) (m)	CABLE SLACK (FT.) (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)
E - M. ARM POLE		SIGNAL POST	2 (1.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)
		ELECTRIC SERVICE	1 (0.5)
		GROUND CABLE	1 (0.5)
		ALL FOUNDATIONS	3.5 (1.0)
		MAST ARM (L) POLE	20'-L-2= (6m+L-0.6m)=
		BRACKET MOUNTED	13 (4.0)
		PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	13.5 (4.1)
		SERVICE TO GROUND	13.5 (4.1)
		POST MOUNTED	6 (1.8)

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court/Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: Mr. Dale Bollinger
PHONE: 815-724-5717
COMPANY: ComEd (1910 South Bridge St., Joliet, IL 60433)



NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN, EMERGENCY VEHICLE PREEMPTION SEQUENCE, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
ILL. RTE. 53 AT I-55 NORTH RAMP

SCALE: NONE
DATE: DECEMBER, 2004

DRAWN BY: RV
DESIGNED BY: AZ
CHECKED BY: AZ

DATE	
BY	
REVISION	
PLANNED	
NOTES	
NO.	

DATE	
BY	
REVISION	
PLANNED	
NOTES	
NO.	