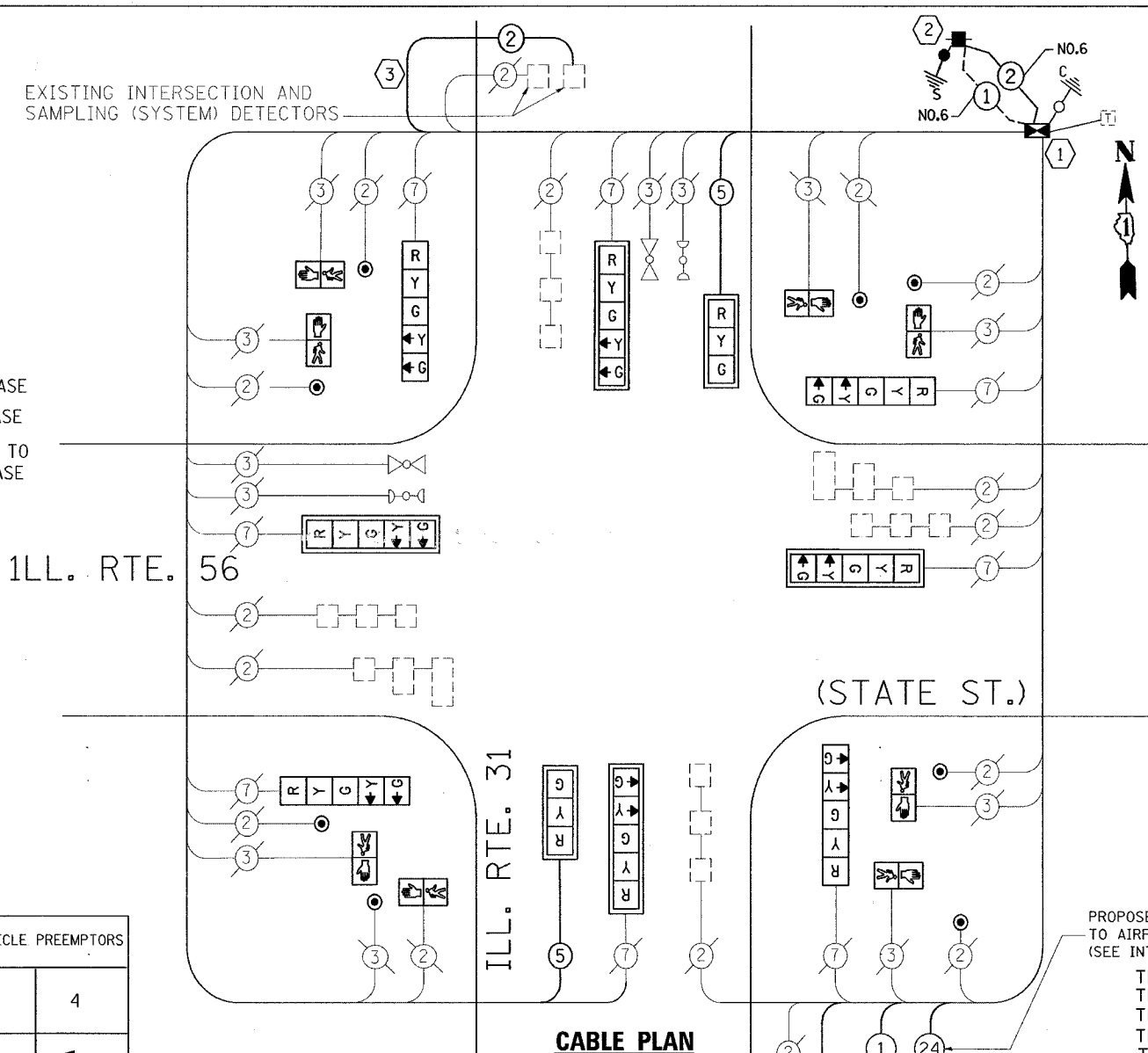
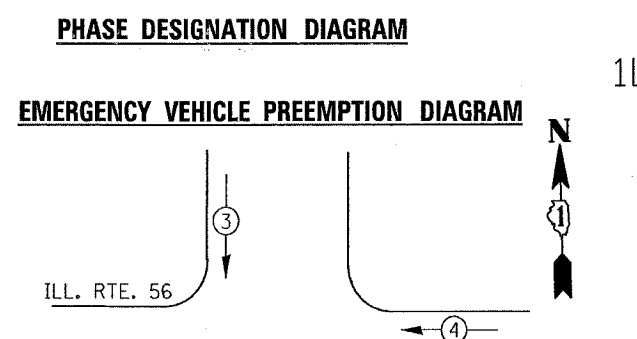
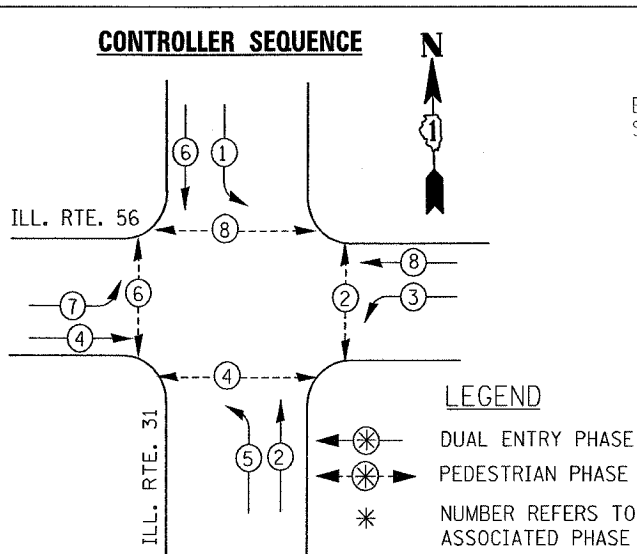


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3902	2005-003 TS	KANE	20	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62907				



**CABLE PLAN LEGEND**

EXISTING	PROPOSED	EXISTING	PROPOSED	DESCRIPTION
(G)	(G)	(2)	(2)	8" (200mm) TRAFFIC SIGNAL SECTION
(R)	(R)	(24)	(24)	12" (300mm) TRAFFIC SIGNAL SECTION
(W)	(W)	(R)	(R)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(P)	(P)	(Y)	(Y)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(C)	(C)	(G)	(G)	CONTROLLER CABINET
(S)	(S)	(Y)	(Y)	SERVICE INSTALLATION
(T)	(T)	(G)	(G)	TELEPHONE CONNECTION
(V)	(V)	(Y)	(Y)	VEHICLE DETECTOR, INDUCTION LOOP
(M)	(M)	(G)	(G)	MAGNETIC DETECTOR
(E)	(E)	(Y)	(Y)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	(G)	(G)	CONFIRMATION BEACON
(D)	(D)	(Y)	(Y)	PUSHBUTTON DETECTOR
(1)	(1)	(G)	(G)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		(H)	(H)	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

NOTE: DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.

NOTE: FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F

NOTE: SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD

NOTE: RAILROAD CONTROL CABINET

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

TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	135	17	0.50	85.0
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					504.2

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: 847-816-5331  
PHONE: 847-816-5331  
COMPANY: COMMONWEALTH EDISON

**EXISTING INTERSECTION AND PROPOSED SAMPLING (SYSTEM) DETECTORS (SEE INTERCONNECT PLANS)**

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'-H-2' (6m-H-0.6m)=
E - M. ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
	24" (600mm)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
	30" (750mm)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

**CONSTRUCTION NOTES:**

- REMOVE EXISTING CONTROLLER AND CABINET. INSTALL NEW CONTROLLER AND TYPE IV CABINET. RE-USE EXISTING FOUNDATION. RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM PHASING UNIT TO NEW CONTROLLER CABINET INCLUDED IN COST OF THE NEW CONTROLLER AND CABINET.
- REMOVE EXISTING SERVICE CABLE AND SERVICE. INSTALL NEW SERVICE, SERVICE CABLE AND GROUND CABLE.
- INSTALL NEW ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR.

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

NOTE: RELOCATION OF THE LIGHT DETECTOR AMPLIFIER(S) FROM THE OLD CONTROLLER CABINET TO THE NEW CABINET IS NECESSARY. THE COST OF THIS WORK SHALL BE INCLUDED IN COST OF THE NEW CONTROLLER AND CABINET.

NOTE: THE PROPOSED TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS "EAGLE".

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	.20
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	.20
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	.20
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	.20
THERMOPLASTIC PAVEMENT MARKING LINE 4"	FOOT	200
THERMOPLASTIC PAVEMENT MARKING LINE 24"	FOOT	130
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET (SPECIAL)	EACH	1
TRANSCIVER-FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1 C	FOOT	190
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PAIR	FOOT	805
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 6 2 C	FOOT	190
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	425
INDUCTIVE LOOP DETECTOR	EACH	10
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	190
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
SERVICE INSTALLATION, POLE MOUNT	EACH	1
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED.	EACH	2
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED.	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED.	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	6

**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES**

ILL. RTE. 31 @ IL. 56 (STATE ST.)

SCALE: 1"=20'  
DATE 6/29/2005

DRAWN BY BCK  
DESIGNED BY BCK  
CHECKED BY BCK

PLT DATE = 6/29/2005  
FILE NAME = c:\projects\trf\ill380\113.mxd  
PLOT SCALE = 20.0000 7 IN.  
REFERENCE = 0.0000