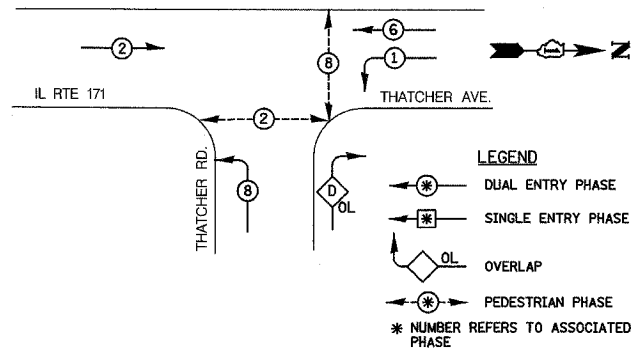
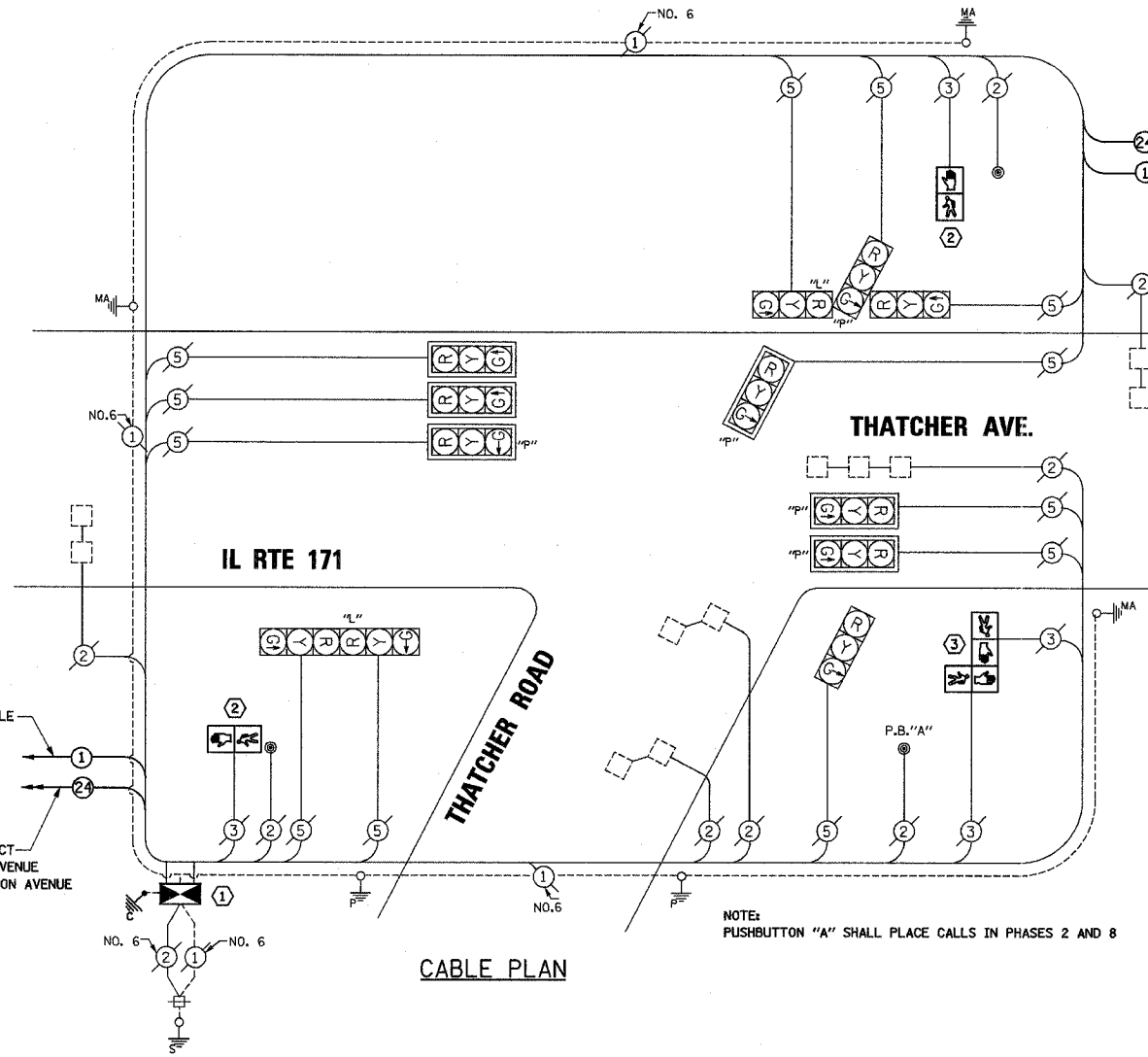


CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



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

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

- CONSTRUCTION NOTES:**
- REMOVE EXISTING CONTROLLER AND CABINET. INSTALL NEW LOCAL CONTROLLER AND TYPE IV CABINET, RE-USE EXISTING FOUNDATION.
 - REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED, INSTALL NEW PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET-MOUNTED.
 - REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED, INSTALL NEW PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET-MOUNTED.
 - THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

CABLE PLAN

NOTE:
PUSHBUTTON "A" SHALL PLACE CALLS IN PHASES 2 AND 8

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		12" (300mm) TRAFFIC SIGNAL SECTION			FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
		12" (300mm) PEDESTRIAN SIGNAL SECTION			SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		12" (300mm) PEDESTRIAN SIGNAL SECTION			SIGNAL FACE WITH BACKPLATE, "L" INDICATES LOUVRE
		CONTROLLER CABINET			RAILROAD CONTROL CABINET
		SERVICE INSTALLATION			ILLUMINATED SIGN "NO LEFT TURN"
		TELEPHONE CONNECTION			ILLUMINATED SIGN "NO RIGHT TURN"
		VEHICLE DETECTOR, INDUCTION LOOP			GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
		MAGNETIC DETECTOR			GROUND ROD AT POST (P), OR MAST ARM POLE (MA)
		EMERGENCY VEHICLE LIGHT DETECTOR			GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		CONFIRMATION BEACON			MICROWAVE VEHICLE SENSOR
		PUSHBUTTON DETECTOR			
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.			

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TRANSCIVER, FIBER OPTIC	EACH	1
PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5
	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	X% OPERATION		
SIGNAL (RED)	12	135	0.50		810
(YELLOW)	12	135	0.25		405
(GREEN)	12	135	0.25		405
ARROW	-	135	0.10		-
PED. SIGNAL	4	90	1.00		360
CONTROLLER	1	100	1.00		100
TOTAL =					2080

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 - FOUNDATION	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2 = (6m+L-0.6m)
C - M. ARM POLE		SIGNAL POST	2 (0.6)		
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)

ENERGY COSTS - BILLED TO: _____ (ADDRESS)

ENERGY SUPPLY - CONTACT: LARRY KESLINSKE (708) 410-5314 COMPANY: COM ED

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

SETON ENGINEERING
SERVICE CORPORATION
CIVIL ENGINEER

19 S. BOTHWELL STREET
PALATINE, ILLINOIS 60067
VOICE: 847-776-7200 FAX: 847-776-7239

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN
PHASE DESIGNATION DIAGRAM
AND SCHEDULE OF QUANTITIES
IL RTE 171 (1ST AVENUE)
AT THATCHER ROAD
RIVER GROVE, ILLINOIS

SCALE: N.T.S.
DATE: 10-23-06

DRAWN BY: CWC, BR
DESIGNED BY: VO
CHECKED BY: TJM