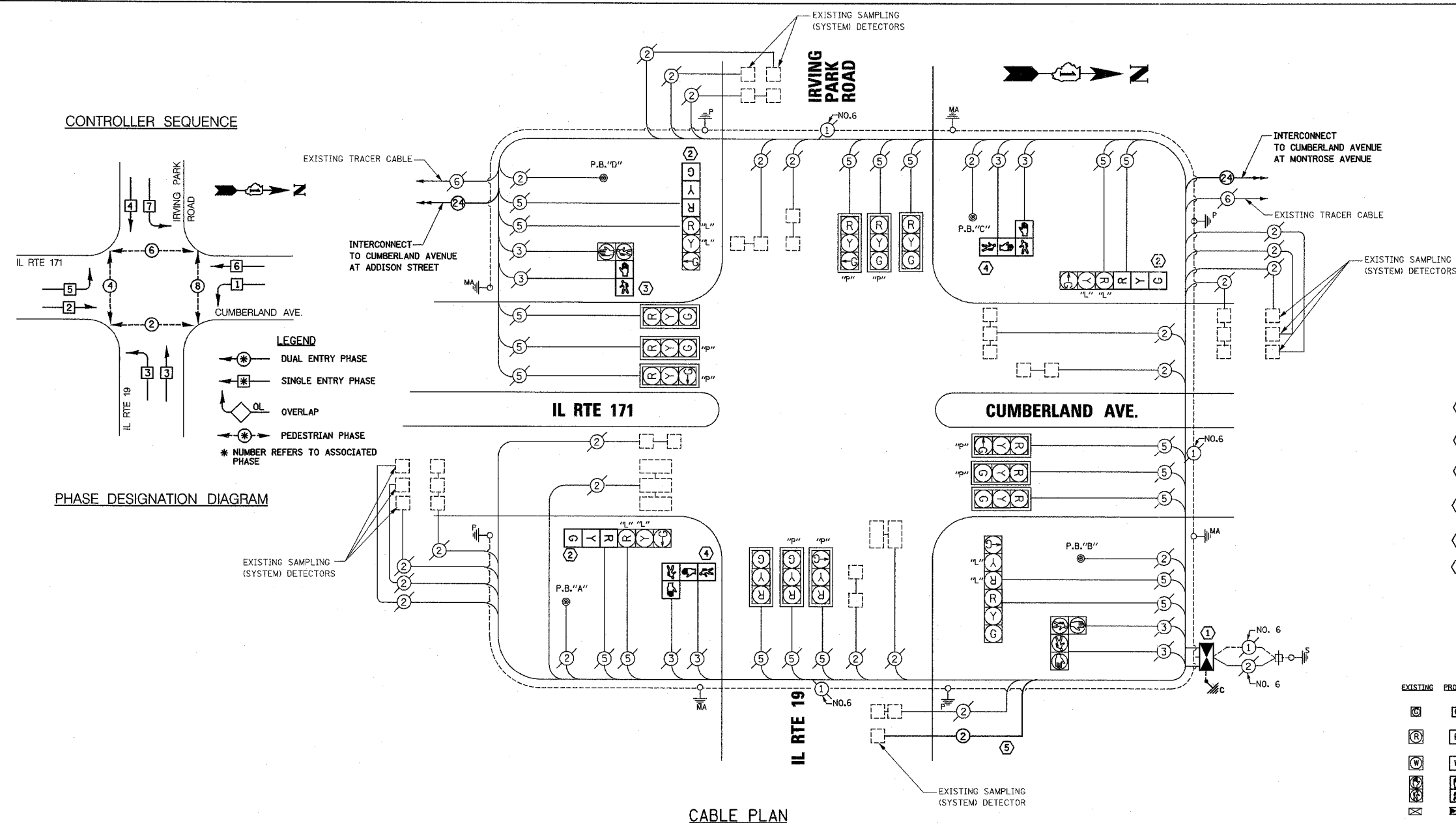
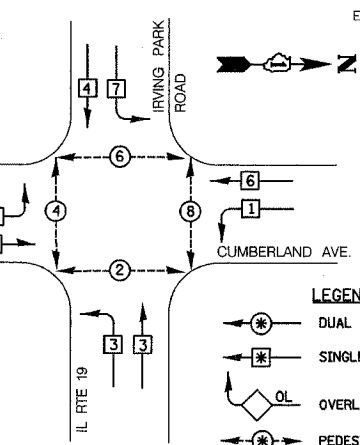


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2006-0397S	COOK	36	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60C01				



**CONTROLLER SEQUENCE**



**LEGEND**  
 \* DUAL ENTRY PHASE  
 \* SINGLE ENTRY PHASE  
 OL OVERLAP  
 \* PEDESTRIAN PHASE  
 \* NUMBER REFERS TO ASSOCIATED PHASE

**PHASE DESIGNATION DIAGRAM**

EXISTING SAMPLING (SYSTEM) DETECTORS

**CABLE PLAN**

**CONSTRUCTION NOTES:**

- REMOVE EXISTING CONTROLLER AND CABINET. INSTALL NEW LOCAL CONTROLLER AND TYPE IV CABINET, RE-USE EXISTING FOUNDATION.
- REMOVE EXISTING SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED. INSTALL NEW SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED.
- 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.
- INSTALL NEW ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14, 1 PAIR.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE OPERATION OF THE TRAFFIC SIGNALS DURING THE ENTIRE PROJECT.

**CABLE PLAN LEGEND**

EXISTING	PROPOSED	EXISTING	PROPOSED

**NOTE:**  
 PUSHBUTTON "A" SHALL PLACE CALLS TO PHASES 2 AND 4  
 PUSHBUTTON "B" SHALL PLACE CALLS TO PHASES 2 AND 8  
 PUSHBUTTON "C" SHALL PLACE CALLS TO PHASES 6 AND 8  
 PUSHBUTTON "D" SHALL PLACE CALLS TO PHASES 4 AND 6

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TRANSCEIVER, FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	350
SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	21
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND. LED	X % OPERATION	
SIGNAL (RED)	20	135	0.50	1350
(YELLOW)	20	135	0.25	675
(GREEN)	20	135	0.25	675
ARROW	-	135	0.10	-
PED. SIGNAL	8	90	1.00	720
CONTROLLER	1	100	1.00	100
<b>TOTAL =</b>				<b>3520</b>

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 = (6mH - 0.6m) =
C - M. ARM POLE		SIGNAL POST	2 (0.6)		
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.3)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.3)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

ENERGY COSTS - BILLED TO: CITY OF CHICAGO  
 ADDRESS: 121 N. LASALLE STREET  
 CHICAGO, IL 60602

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

**STON ENGINEERING**  
 SERVICE CORPORATION  
 CIVIL ENGINEER

19 S. BOTHWELL STREET  
 PALATINE, ILLINOIS 60067  
 VOICES: 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 (CUMBERLAND AVENUE)  
 AT IRVING PARK ROAD  
 CHICAGO, ILLINOIS

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

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

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