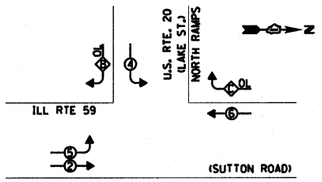
CONTROLLER SEQUENCE



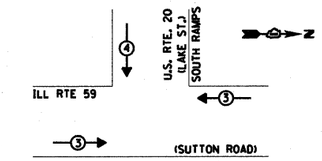
LEGEND

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

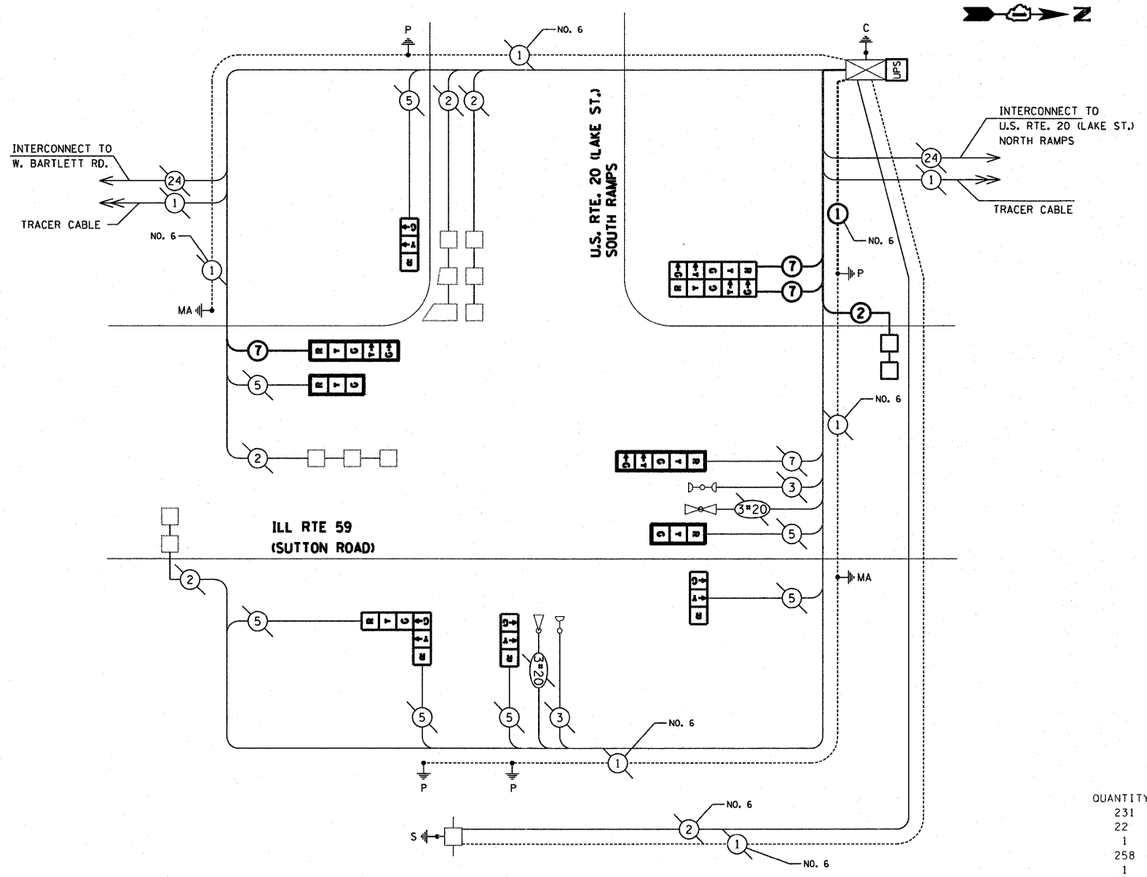
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5
C	=	6	+	4

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ←



CABLE PLAN

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE ENDS OF THE TRACER CABLES SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINETS.

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
231	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
22	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
1	EACH	HANDHOLE
258	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
395	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
270	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1-PAIR
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
2	EACH	DRILL EXISTING HANDHOLE
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
80	FOOT	DETECTOR LOOP, TYPE I
270	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
50	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1

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

TYPE	NO. LAMPS	X	WATTAGE INCAND.	LED	X	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11			17		0.50	93.50
(YELLOW)	11			25		0.25	68.75
(GREEN)	11			15		0.25	41.25
ARROW	8			12		0.10	9.60
PED. SIGNAL	-			25		1.00	-
CONTROLLER	1			100		1.00	100.00
ILLUM. SIGN	-			25		0.05	-
FLASHER						0.05	
						TOTAL =	313.10

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: _____
PHONE:
COMPANY: COMMONWEALTH EDISON

APEX CONSULTING ENGINEERS, LLC
111 E. Wacker Drive, Suite 520
Chicago, IL 60601

FILE NAME = $FILE1$	USER NAME = wingram	DESIGNED - WHI	REVISED -
		DRAWN - WHI	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - DEB	REVISED -
	PLOT DATE = 2/22/2011	DATE - 1/10/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 59 AT U.S. RTE. 20 SOUTH RAMPS
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY PREEMPTION SEQUENCE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	40
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		