SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QTY
HANDHOLE	EACH	7
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET (SPECIAL)	EACH	1
TRANSCEIVER-FIBER OPTIC	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	16
*LIGHT DETECTOR	EACH	2
*LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
SIGN PANEL - TYPE 2	SQ M	4.42
CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	325
CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	37
CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	96
CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL	METER	114
CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	120
TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	276
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	267
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	476
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	267
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	838
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 4 1 PAIR	METER	2734
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	METER	30
TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 9.75 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 10.97 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 11.58 METER	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 12.19 METER	EACH	1
CONCRETE FOUNDATION, TYPE A	METER	4.8
CONCRETE FOUNDATION, TYPE D	METER	1.2
CONCRETE FOUNDATION, TYPE E 750 MM DIAMETER	METER	18.4
PREFORMED DETECTOR LOOP	METER	273
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	METER	321
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	METER	196
TELEPHONE SERVICE INSTALLATION	L.SUM	0.5
SERVICE INSTALLATION, POLE MOUNT	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
UNINTERRUPTABLE POWER SUPPLY	EACH	1

* 100% cost to City of Harvey

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	*OPERATION	
SIGNAL (RED)	20	135	17	0.50	170.0
(YELLOW)	20	135	25	0.25	125.0
(GREEN)	20	135	15	0.25	75.0
ARROW	32	135	12	0.10	38.4
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	
ENERGY COSTS TO:				TOTAL =	708.40

ENERGY SUPPLY
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
CONTACT: MIKE LYNCH
PHONE: (847) 816-5331
COMPANY: COM. EDISON

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'+L-2=
E - M. ARM POLE		SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
30" (750mm)	13.5 (4.1)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900mm)	11 (3.4)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	13 (4.0)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
36" (900mm)	15 (4.6)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

CABLE PLAN LEGEND

EXISTING / PROPOSED

- 8" (200mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) TRAFFIC SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- 12" (300mm) PEDESTRIAN SIGNAL SECTION
- COUNTDOWN PEDESTRIAN SIGNAL HEAD
- CONTROLLER CABINET
- SERVICE INSTALLATION
- TELEPHONE CONNECTION
- MAGNETIC DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- PUSHBUTTON DETECTOR
- VEHICLE DETECTOR, INDUCTION LOOP
- DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
- MICROWAVE VEHICLE SENSOR
- SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD

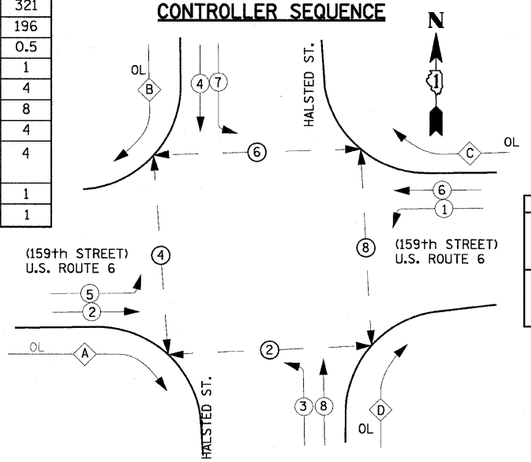
EXISTING / PROPOSED

- RAILROAD CONTROL CABINET
- ILLUMINATED SIGN, L.E.D. "NO LEFT TURN"
- ILLUMINATED SIGN, L.E.D. "NO RIGHT TURN"
- GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
- GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
- FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
- BATTERY BACK-UP UPS SYSTEM

LEGEND

- DUAL ENTRY PHASE
- OVER LAP
- PEDESTRIAN MOVEMENT
- NUMBER REFERS TO ASSOCIATED PHASE

CONTROLLER SEQUENCE

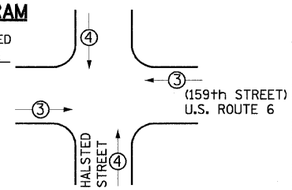


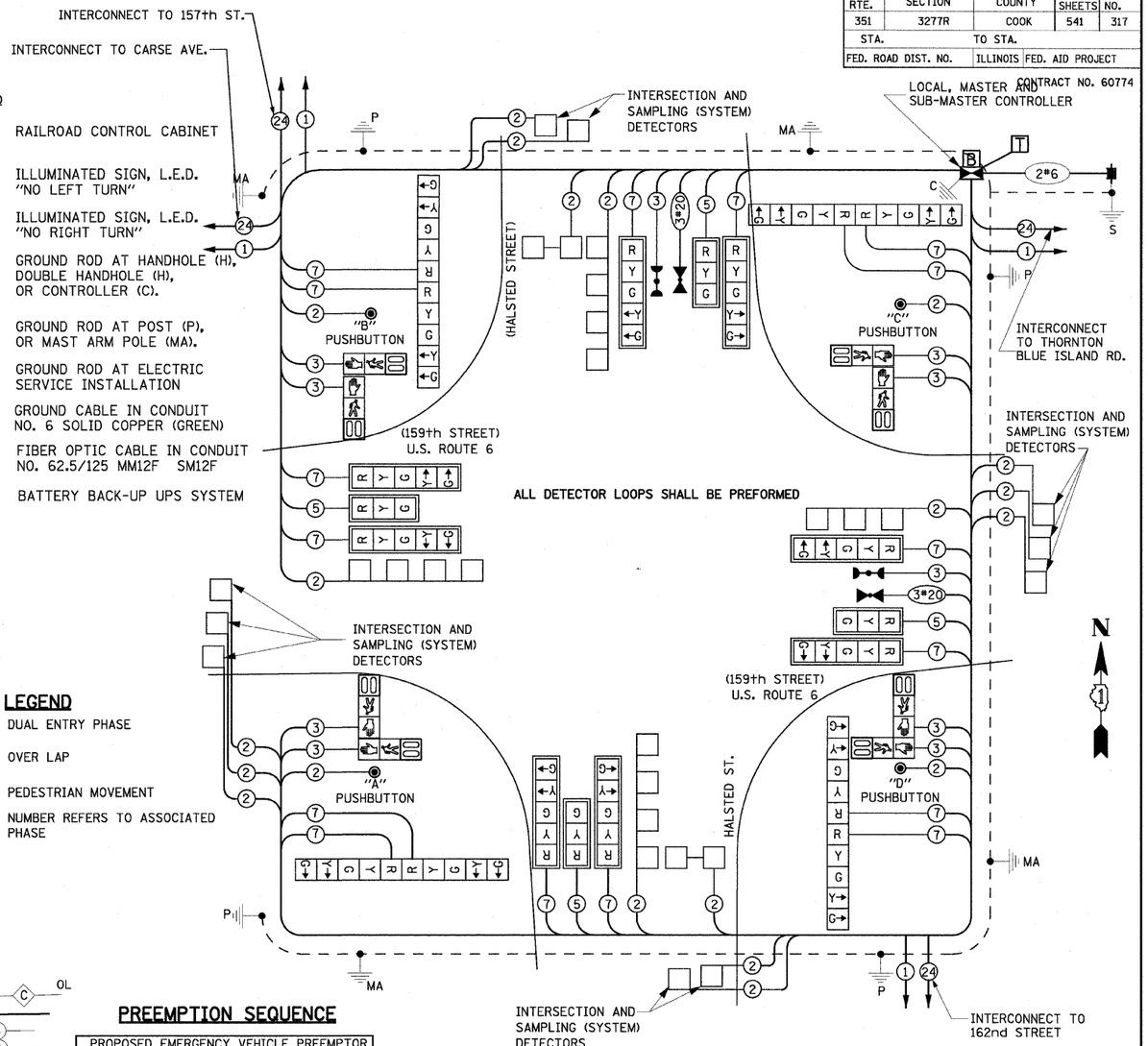
PREEMPTION SEQUENCE

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

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7
D	=	8	+	1





NOTE:

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	3277R	COOK	541	317
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60774

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
US RTE 6 FROM I-294 TO IL RTE 1
SCHEDULE OF QUANTITIES AND CABLE PLAN
US RTE 6 & HALSTED STREET

SCALE. NONE DRAWN BY DK
DATE 01/28/09 CHECKED BY JA

Delta Engineering, Inc.
CONSULTING ENGINEERS, CHICAGO ILLINOIS.