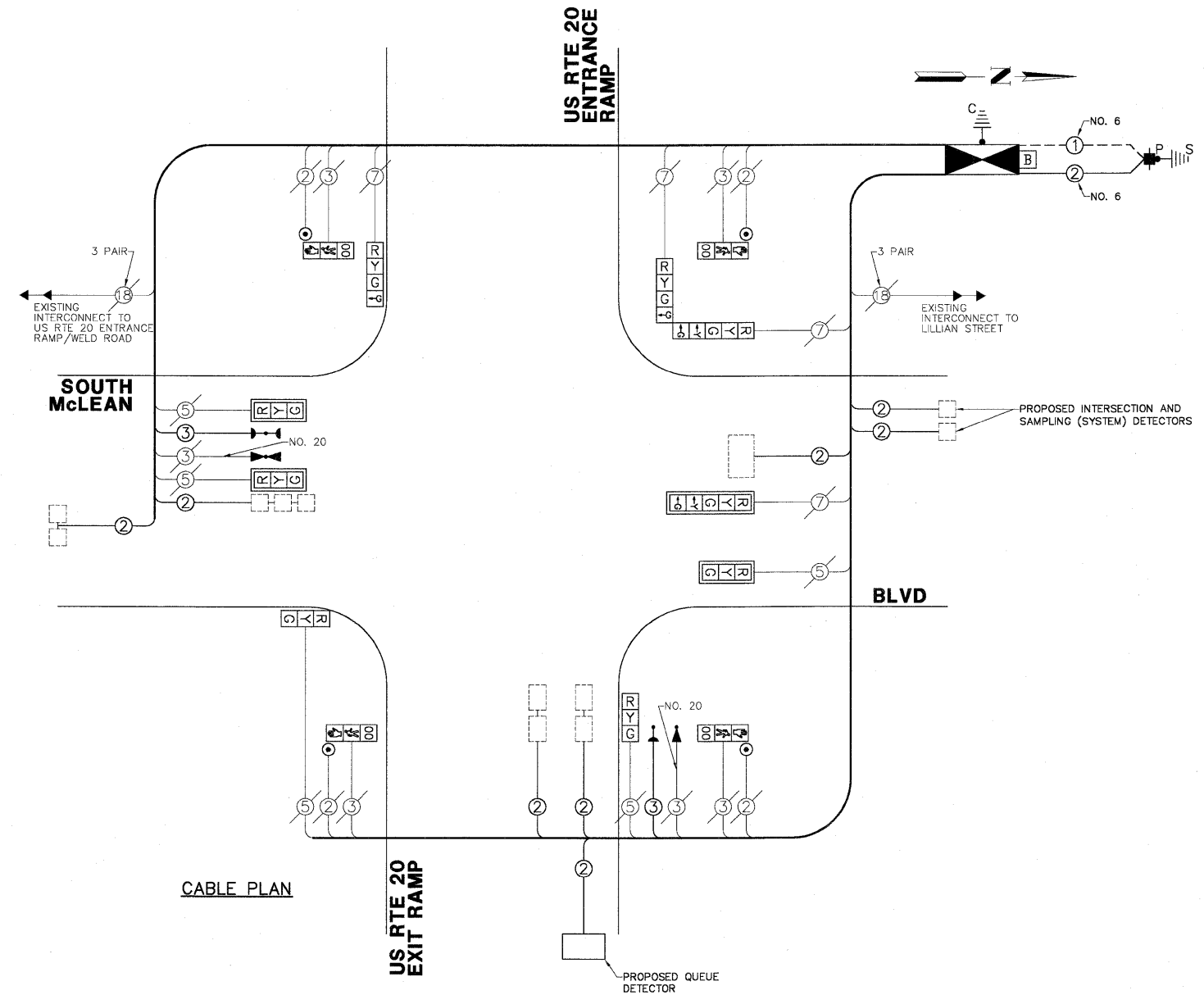


SCHEDULE OF QUANTITIES

US RTE 20 WESTBOUND RAMP AT McLEAN BLVD

NO.	QUANT.	UNIT
1.	420	FOOT CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL
2.	1	EACH HEAVY-DUTY HANDHOLE
3.	420	FOOT TRENCH AND BACKFILL FOR ELECTRICAL WORK
4.	1	EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
5.	1	EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
6.	1	EACH TRANSCEIVER - FIBER OPTIC
7.	357	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C
8.	783	FOOT ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
9.	204	FOOT ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
10.	1	EACH DRILL EXISTING HANDHOLE
11.	3	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
12.	2	EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
13.	1	EACH SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
14.	1	EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
15.	1	EACH SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED
16.	4	EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
17.	4	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM
18.	8	EACH INDUCTIVE LOOP DETECTOR
19.	35	FOOT DETECTOR LOOP, TYPE I
20.	2	EACH LIGHT DETECTOR
21.	1	EACH LIGHT DETECTOR AMPLIFIER
22.	4	EACH PEDESTRIAN PUSH-BUTTON
23.	191	FOOT REMOVE ELECTRIC CABLE FROM CONDUIT
24.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
25.	1	EACH SERVICE INSTALLATION - POLE MOUNTED
26.	1	EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)
27.	191	FOOT ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C

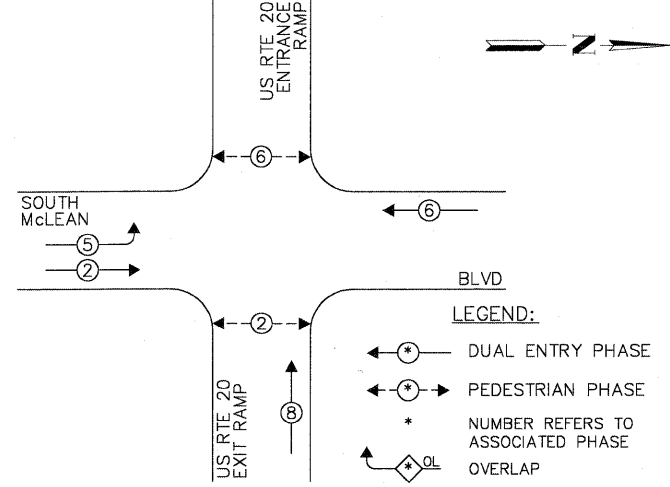


CABLE PLAN

CABLE PLAN LEGEND

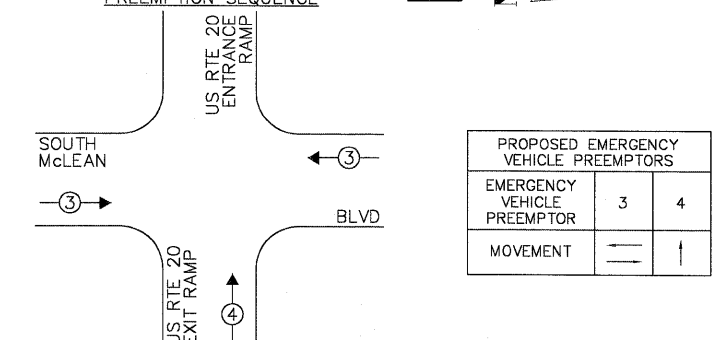
EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM24F
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "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
		UNINTERRUPTIBLE POWER SUPPLY (UPS)
		12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER

PROPOSED CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



Restoration of Work Area. Restoration of the traffic signal work area shall be incidental to the related pay items such as foundation, conduit, handhole, trench and backfill, etc., and no extra compensation shall be allowed. All roadway surfaces such as shoulders, medians, 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.

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	9	135	17	0.50	76.5
SIGNAL (YELLOW)	9	135	25	0.25	56.25
SIGNAL (GREEN)	11	135	15	0.25	41.25
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	4	90	25	1.00	100.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	-	-	250	0.50	-
L.E.D. ST. NAME SIGN	-	-	64	0.50	-
VIDEO SYSTEM	-	-	150	1.00	-
BATTERY BACKUP	1	-	25	1.00	25.0
TOTAL =					403.8

ENERGY COSTS - BILLED TO: CITY OF ELGIN
 (ADDRESS) 150 DEXTER COURT
 (ADDRESS) ELGIN, IL 60120
 ENERGY SUPPLY - CONTACT: KATHY NYSTROM
 PHONE: (847) 816-5489
 COMPANY: COM ED - ELGIN

FILE NAME = 4085.852-TR1.dwg	USER NAME = GHA	DESIGNED - JRD	REVISED -
	PLOT SCALE = 1" = .0833'	DRAWN - ZCW	REVISED -
	PLOT DATE = 12/9/2009	CHECKED - KLB	REVISED -
		DATE - 11/20/09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND SCHEDULE OF QUANTITIES
 US RTE 20 WESTBOUND RAMP AT SOUTH McLEAN BLVD

FAU. RTE. VARIES	SECTION 2009-105-TS	COUNTY KANE	TOTAL SHEETS 36	SHEET NO. 27
CONTRACT # 60J01				ILLINOIS FED. AID PROJECT