

SCHEDULE OF QUANTITIES

ILLINOIS ROUTE 131 (GREEN BAY ROAD) AND MARTIN LUTHER KING JR. DRIVE

QUANT.	UNIT	ITEM
1.	40	CU.YD. EARTH EXCAVATION
2.	90	SQ.YD. SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
3.	12	TON HOT-MIX ASPHALT REPLACEMENT OVER PATCHES
4.	10	GAL BITUMINOUS MATERIALS (PRIME COAT)
5.	250	FOOT COMBINATION CURB & GUTTER REMOVAL
6.	650	SQ.FT. MEDIAN REMOVAL
7.	90	SQ.YD. CLASS B PATCHES, TYPE III, 10"
8.	0.34	L.SUM TRAFFIC CONTROL AND PROTECTION, STANDARD 701606-06
9.	0.34	L.SUM TRAFFIC CONTROL AND PROTECTION, STANDARD 701701-06
10.	55	SQ.FT. SIGN PANEL - TYPE 2
11.	485	FOOT THERMOPLASTIC PAVEMENT MARKING - LINE 8"
12.	570	FOOT THERMOPLASTIC PAVEMENT MARKING - LINE 12"
13.	80	FOOT THERMOPLASTIC PAVEMENT MARKING - LINE 24"
14.	265	SQ.FT. PAVEMENT MARKING REMOVAL
15.	250	FOOT SAWING PAVEMENT (FULL DEPTH)
16.	596	FOOT CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
17.	138	FOOT CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
18.	10	FOOT CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
19.	430	FOOT CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
20.	436	FOOT CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
21.	7	EACH HANDHOLE
22.	4	EACH HEAVY-DUTY HANDHOLE
23.	1	EACH DOUBLE HANDHOLE
24.	674	FOOT TRENCH AND BACKFILL FOR ELECTRICAL WORK
25.	1	EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
*26.	400	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
27.	2192	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
28.	2041	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
29.	2074	FOOT ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
30.	43	FOOT ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
31.	735	FOOT ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
*32.	400	FOOT ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED, SHIELDED
33.	1	EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT
34.	1	EACH STEEL MAST ARM ASSEMBLY AND POLE, 28 FT
35.	2	EACH STEEL MAST ARM ASSEMBLY AND POLE, 32 FT
36.	1	EACH STEEL MAST ARM ASSEMBLY AND POLE, 42 FT
37.	1	EACH STEEL MAST ARM ASSEMBLY AND POLE, 44 FT
38.	1	EACH STEEL MAST ARM ASSEMBLY AND POLE, 48 FT
39.	1	EACH STEEL MAST ARM ASSEMBLY AND POLE, 52 FT
40.	4	FOOT CONCRETE FOUNDATION, TYPE A
41.	4	FOOT CONCRETE FOUNDATION, TYPE C
42.	37	FOOT CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
43.	54	FOOT CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
44.	8	EACH SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
45.	1	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
46.	7	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
47.	15	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM
48.	8	EACH INDUCTIVE LOOP DETECTOR
49.	755	FOOT DETECTOR LOOPS, TYPE 1
*50.	2	EACH LIGHT DETECTOR
*51.	1	EACH LIGHT DETECTOR AMPLIFIER
52.	1	EACH TEMPORARY TRAFFIC SIGNAL INSTALLATION
53.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
54.	17	EACH REMOVE EXISTING HANDHOLE
55.	5	EACH REMOVE EXISTING CONCRETE FOUNDATION
56.	1	EACH SERVICE INSTALLATION, POLE MOUNT
57.	1	EACH UNINTERRUPTIBLE POWER SUPPLY (UPS)

*100% COST TO CITY OF NORTH CHICAGO

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.0
SIGNAL (YELLOW)	16	135	25	0.25	100.0
SIGNAL (GREEN)	16	135	15	0.40	96.0
ARROW	16	135	12	0.10	19.2
PED.SIGNAL	-	90	25	1.00	-
CONTROLLER	-	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 =					476.2

FOUNDATION (DEPTH)	(FT.)	CABLE SLACK	(FT.)	VERTICAL	(FT.)
TYPE A - POST	4	HANDHOLE	6.5	ALL FOUNDATIONS	3.5
TYPE D - CONTROLLER	4	DOUBLE HANDHOLE	13	MAST ARM (L) POLE	20'-1'-2"
TYPE E - M-ARM POLE	10	SIGNAL POST	2	BRACKET MOUNTED	13
30' (30'-40')	13.5	CONTROLLER CAB.	4	PED. PUSHBUTTON	4
36' (40'-48')	13	FIBER OPTIC	13.5	ELECTRIC SERVICE	13.5
36' (50'-55')	15	ELECTRIC SERVICE	1	SERVICE TO GROUND	13.5
		GROUND CABLE	1	POST MOUNTED	6

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "NTCIP" COMPLIANT.

ENERGY COSTS - BILLED TO: CITY OF NORTH CHICAGO
 (ADDRESS) 1850 LEWIS AVENUE
 (ADDRESS) NORTH CHICAGO, IL 60064
 ENERGY SUPPLY - CONTACT: NEW BUSINESS
 PHONE: 1-866-639-3552
 COMPANY: COMED

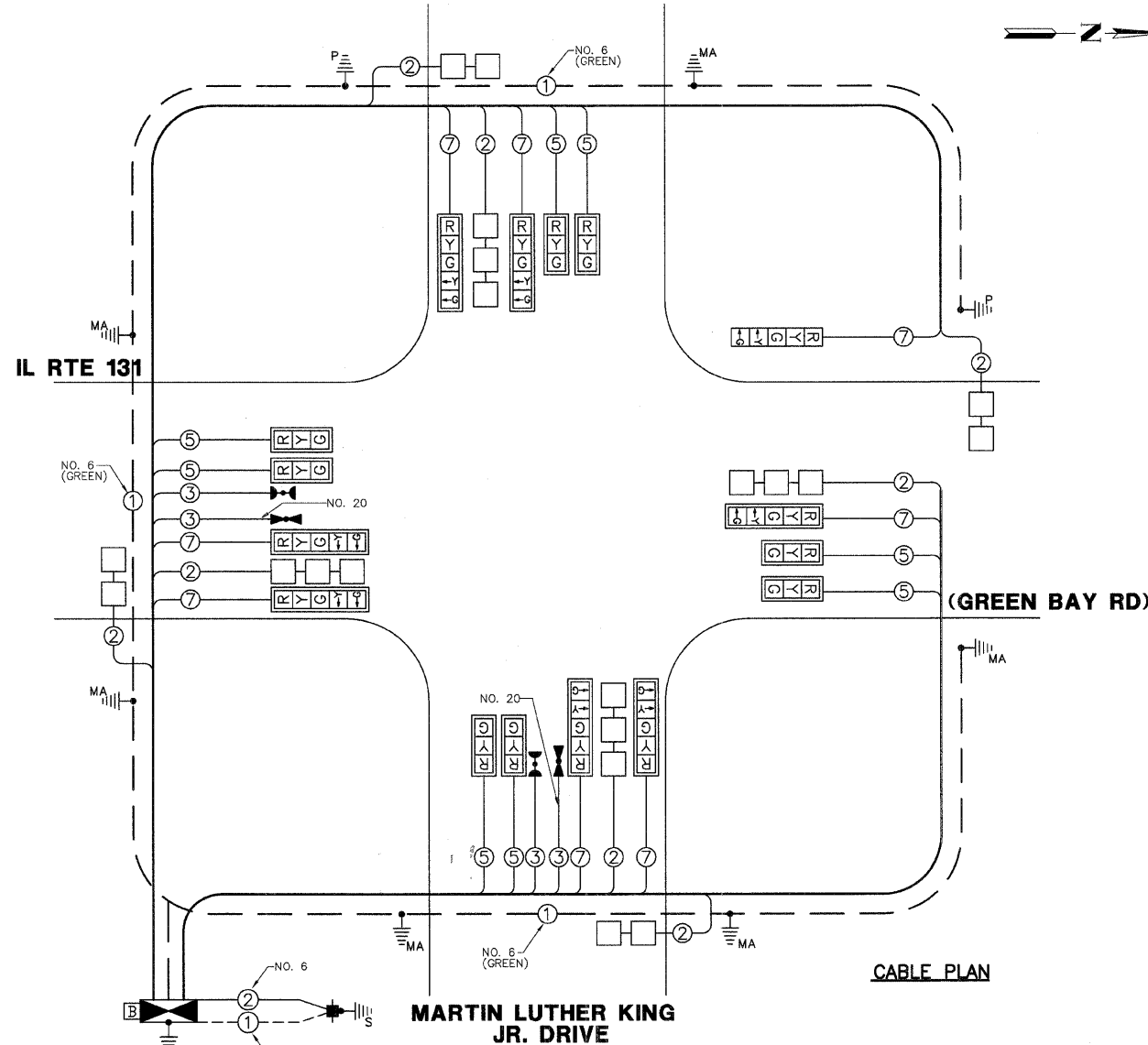
FILE NAME	USER NAME	DESIGNED	JRD	REVISED	-
4085.800-TR1.dgn		DRAWN	LJD	REVISED	-
		CHECKED	KLB	REVISED	-
		PLOT DATE =	1/19/09	DATE	1/19/09
				REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
 ILL RTE 131 (GREEN BAY RD.) AND MARTIN LUTHER KING JR. DRIVE
 SCALE: NONE SHEET NO. 15 OF 21 SHEETS STA. TO STA.

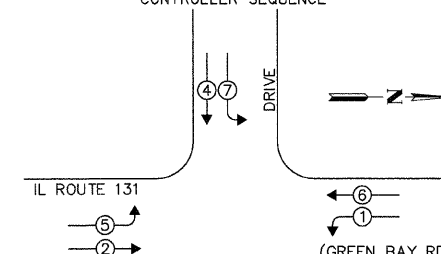
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
27H	2009-006 TS	097(LAKE/K)	21	15
CONTRACT NO. 60G02				
ILLINOIS FED. AID PROJECT				

MARTIN LUTHER KING JR. DRIVE

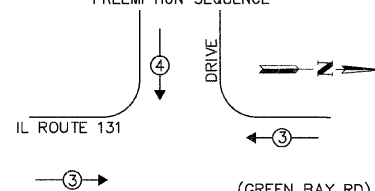


CABLE PLAN

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

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

PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3 4
MOVEMENT	—

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
(Symbol)	(Symbol)	8" (200mm) TRAFFIC SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) TRAFFIC SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(Symbol)	(Symbol)	12" (300mm) PEDESTRIAN SIGNAL SECTION
(Symbol)	(Symbol)	CONTROLLER CABINET
(Symbol)	(Symbol)	SERVICE INSTALLATION
(Symbol)	(Symbol)	TELEPHONE
(Symbol)	(Symbol)	VEHICLE DETECTOR, INDUCTION LOOP
(Symbol)	(Symbol)	MAGNETIC DETECTOR
(Symbol)	(Symbol)	EMERGENCY VEHICLE LIGHT DETECTOR
(Symbol)	(Symbol)	CONFIRMATION BEACON
(Symbol)	(Symbol)	PUSHBUTTON DETECTOR
(Symbol)	(Symbol)	2 DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(Symbol)	(Symbol)	1 GROUND CABLE IN CONDUIT NO.6 SOLID COPPER (GREEN)
(Symbol)	(Symbol)	56 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM24F
(Symbol)	(Symbol)	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
(Symbol)	(Symbol)	RAILROAD CONTROL CABINET
(Symbol)	(Symbol)	ILLUMINATED SIGN "NO LEFT TURN"
(Symbol)	(Symbol)	ILLUMINATED SIGN "NO RIGHT TURN"
(Symbol)	(Symbol)	H/C GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
(Symbol)	(Symbol)	P GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
(Symbol)	(Symbol)	S GROUND ROD AT ELECTRIC SERVICE INSTALLATION
(Symbol)	(Symbol)	PTZ CAMERA
(Symbol)	(Symbol)	UNINTERRUPTIBLE POWER SUPPLY (UPS)
(Symbol)	(Symbol)	VIDEO COMMUNICATIONS CABINET

CHA #4085.805