

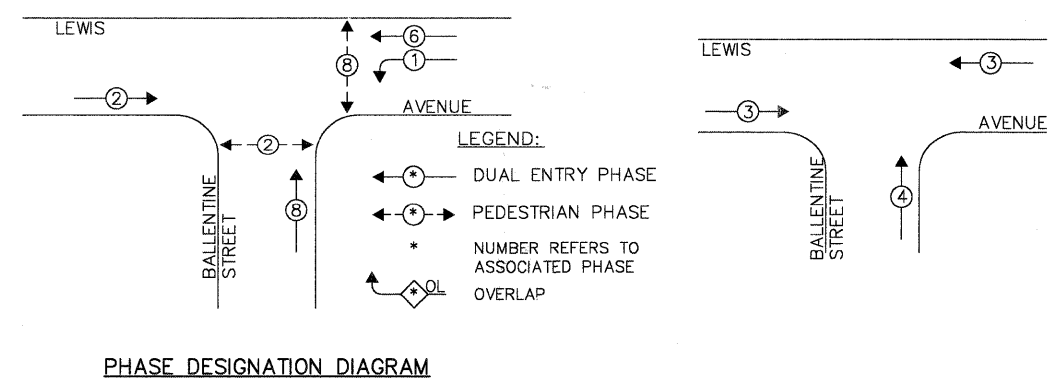
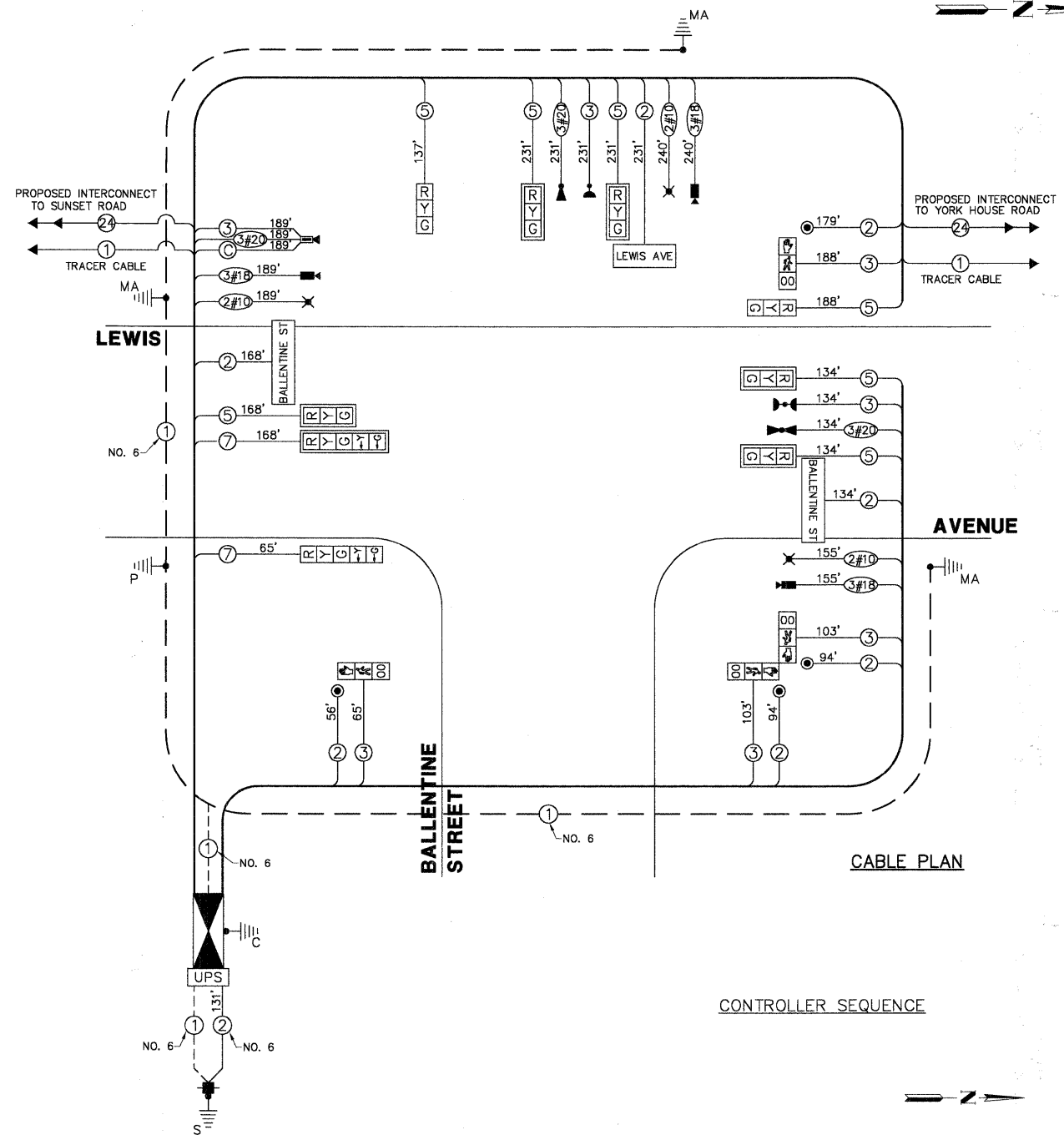
SCHEDULE OF QUANTITIES

LEWIS AVENUE AT BALLENTINE STREET TRAFFIC SIGNAL MODERNIZATION

NO.	QUANT.	UNIT
1.	8	CU.YD. EARTH EXCAVATION
2.	25	SQ.YD. AGGREGATE BASE COURSE, TYPE B, 4"
3.	835	SQ.FT. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
4.	68	SQ.FT. DETECTABLE WARNINGS
5.	80	FOOT COMBINATION CURB AND GUTTER REMOVAL
6.	425	SQ.FT. SIDEWALK REMOVAL
7.	2	EACH FRAMES AND LIDS TO BE ADJUSTED
8.	80	FOOT COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12
9.	180	FOOT THERMOPLASTIC PAVEMENT MARKING - LINE 12"
10.	45	FOOT THERMOPLASTIC PAVEMENT MARKING - LINE 24"
11.	90	SQ.FT. PAVEMENT MARKING REMOVAL
12.	93	FOOT CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
13.	26	FOOT CONDUIT IN TRENCH, 2-1/2" DIA., GALVANIZED STEEL
14.	83	FOOT CONDUIT IN TRENCH, 3-1/2" DIA., GALVANIZED STEEL
15.	10	FOOT CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL
16.	16	FOOT CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL
17.	124	FOOT CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
18.	2	EACH HANDHOLE
19.	1	EACH DOUBLE HANDHOLE
20.	584	FOOT ELECTRIC CABLE IN CONDUIT, 600 (EPR-TYPE RHW) 2-1/C NO. 10
21.	207	FOOT TRENCH AND BACKFILL FOR ELECTRICAL WORK
22.	3	EACH LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL 250 WATT
23.	1	EACH FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)
24.	1	EACH TRANSCEIVER - FIBER OPTIC
25.	734	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
26.	1,013	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
27.	1,223	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
28.	233	FOOT ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
29.	131	FOOT ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
30.	2	EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 24 FT (SPECIAL)
31.	1	EACH STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT (SPECIAL)
32.	4	FOOT CONCRETE FOUNDATION, TYPE A
33.	4	FOOT CONCRETE FOUNDATION, TYPE C
34.	45	FOOT CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER
35.	5	EACH SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
36.	2	EACH SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
37.	1	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED
38.	1	EACH SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
39.	2	EACH PEDESTRIAN COUNTDOWN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED
40.	1	EACH PEDESTRIAN COUNTDOWN SIGNAL HEAD, L.E.D., 2-FACE, BRACKET MOUNTED
41.	6	EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINIUM
42.	2	EACH LIGHT DETECTOR
43.	1	EACH LIGHT DETECTOR AMPLIFIER
44.	4	EACH PEDESTRIAN PUSH-BUTTON
45.	1	EACH TEMPORARY TRAFFIC SIGNAL INSTALLATION
46.	1	EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
47.	6	EACH REMOVE EXISTING HANDHOLE
48.	6	EACH REMOVE EXISTING CONCRETE FOUNDATION
49.	1	EACH SERVICE INSTALLATION, POLE MOUNT
50.	405	FOOT ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
51.	564	FOOT ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, GROUNDED
52.	189	FOOT ELECTRIC CABLE IN CONDUIT, COAXIAL
53.	584	FOOT ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 18, 3C
54.	1	EACH VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)
55.	3	EACH L.E.D. INTERNALLY ILLUMINATED STREET NAME SIGN
56.	1	EACH TRAFFIC SIGNAL POST, 16 FT (SPECIAL)
57.	1	EACH REMOTE-CONTROLLED VIDEO SYSTEM
58.	1	EACH UNINTERRUPTIBLE POWER SUPPLY
59.	1	EACH VIDEO ENCODER

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
		12" TRAFFIC SIGNAL SECTION
		CONTROLLER CABINET
		TELEPHONE INSTALLATION
		EMERGENCY VEHICLE LIGHT DETECTOR
		PUSHBUTTON DETECTOR
		FIBER OPTIC CABLE IN CONDUIT, 24 SINGLEMODE
		SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD
		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
		BELDEN 1694A RG-6/4 COAXIAL CABLE
		ISDN LINE
		LUMINAIRE
		VIDEO DETECTION CAMERA
		PTZ CAMERA
		VIDEO COMMUNICATIONS CABINET
		L.E.D. STREET NAME SIGN
		UNINTERRUPTIBLE POWER SUPPLY



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↑

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

L.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	9	135	10	0.50	45.0
SIGNAL (YELLOW)	9	135	19	0.10	17.1
SIGNAL (GREEN)	9	135	1	0.40	39.6
ARROW	4	135	9	0.10	3.6
PED.SIGNAL	4	90	9	1.00	36.0
CONTROLLER	1	-	100	1.00	100.0
LUMINAIRE	3	-	250	0.50	375.0
L.E.D. ST. NAME SIGN	3	-	64	0.50	96.0
VIDEO SYSTEM	1	-	150	1.00	150.0
BATTERY BACKUP	1	-	25	1.00	25.0
TOTAL =					887.3

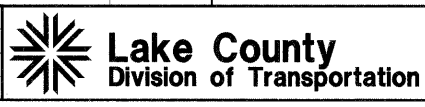
FOUNDATION (DEPTH) (FT.)	CABLE SLACK (FT.)	VERTICAL (FT.)	
TYPE A - POST	4	ALL FOUNDATIONS	3.5
TYPE D - CONTROLLER	4	DOUBLE HANDHOLE	13
TYPE E - M.ARM POLE	15	SIGNAL POST	2
		BRACKET MOUNTED	13
		CONTROLLER CAB.	1
		PED. PUSHBUTTON	4
		FIBER OPTIC	13
		ELECTRIC SERVICE	13.5
		SERVICE TO GROUND	13.5
		GROUND CABLE	6
		POST MOUNTED	6

ENERGY COSTS - BILLED TO: CITY OF WAUKEGAN
 (ADDRESS) 100 N. MILK JR. AVENUE
 (ADDRESS) WAUKEGAN, IL
 ENERGY SUPPLY - CONTACT: NEW BUSINESS
 PHONE: (886) 639-3552
 COMPANY: COM-ED, LIBERTYVILLE

FILE NAME = 4135.315-TR1.dwg
 USER NAME = GHA
 PLOT SCALE = 1" = .08'
 PLOT DATE = 10/19/2009

DESIGNED - JRD
 DRAWN - ZCW
 CHECKED - DPB
 DATE - 10/19/09

REVISED - 9/15/09 (LCDOT)
 REVISED - 9/25/09 (IDOT)
 REVISED - 10/19/09 (LCDOT)
 REVISED -



CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
LEWIS AVENUE AT BALLENTINE STREET

SCALE: NONE SHEET NO. 52 OF 86 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2730	08-00259-00-TL	LAKE	86	52
CONTRACT #:				63344
ILLINOIS FED. AID PROJECT				

GHA #4135.800