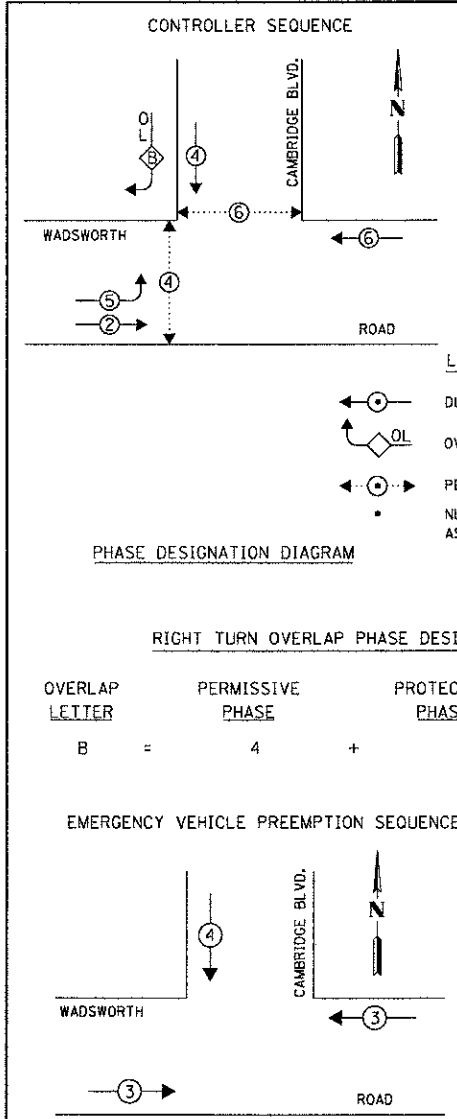


DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_

CHRISTOPHER B. BURKE ENGINEERING LTD.  
 9575 West Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_



**LEGEND**

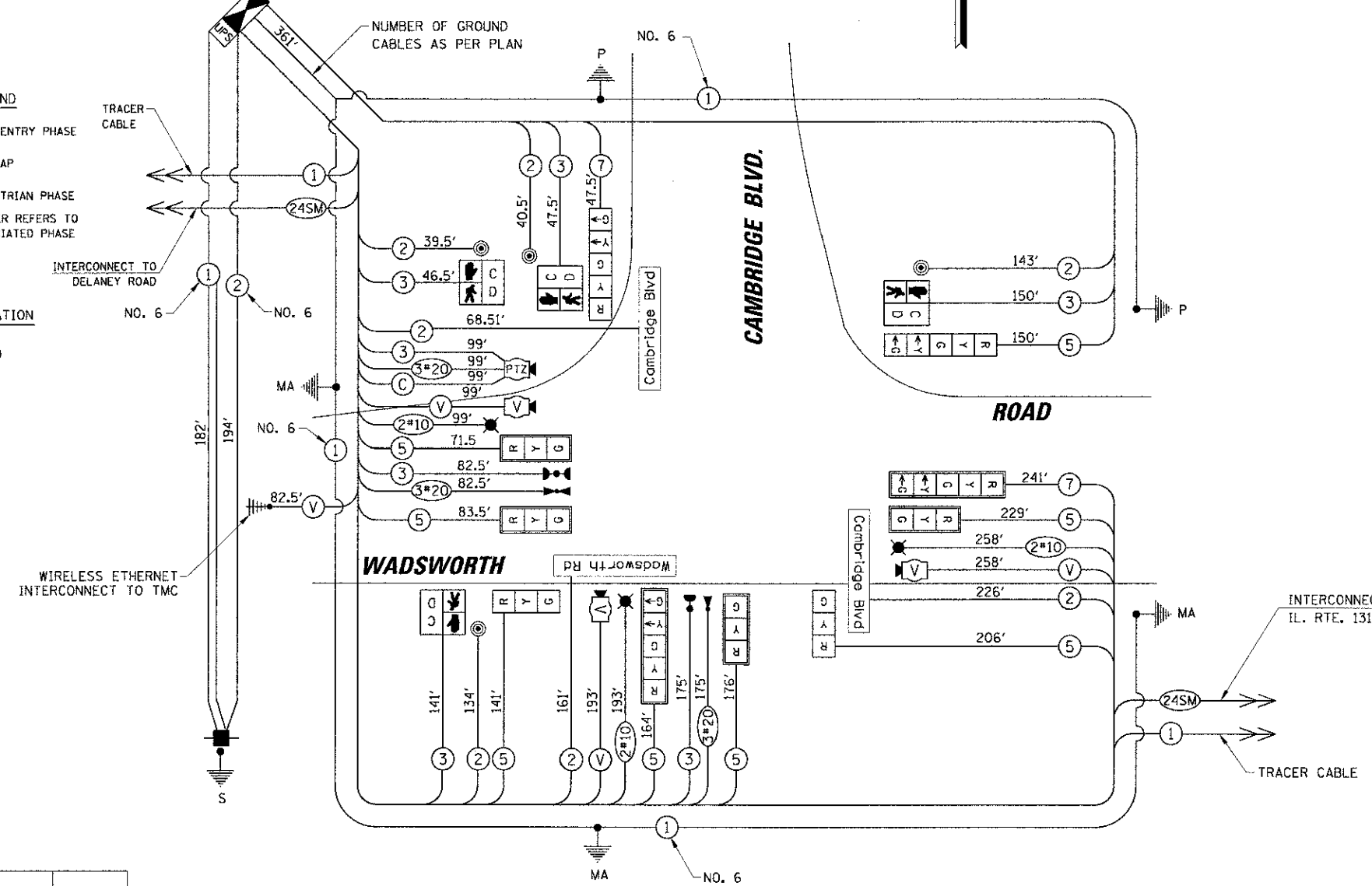
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

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

L.C.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND. LED	X % OPERATION		
SIGNAL (RED)	10	10	0.50		50.00
(YELLOW)	10	19	0.10		19.00
(GREEN)	10	11	0.40		44.00
ARROW	8	9	0.10		7.20
PED. SIGNAL	4	9	1.00		36.00
CONTROLLER	1	100	1.00		100.00
LUMINAIRE	3	250	0.50		375.00
L.E.D. ST. NAME SIGN	3	64	0.50		96.00
VIDEO SYSTEM	1	150	1.00		150.00
BATTERY BACKUP	1	25	1.00		25.00
<b>ENERGY COSTS TO:</b>					<b>TOTAL = 902.20</b>

**LAKE COUNTY DIVISION OF TRANSPORTATION**  
 600 WEST WINCHESTER ROAD  
 LIBERTYVILLE, ILLINOIS 60048-1381  
 ENERGY SUPPLY CONTACT: KIM KANGAS  
 PHONE: (847) 816-5497  
 COMPANY: COMED

FILE NAME =	USER NAME = nmorel	DESIGNED -	REVISED -
N:\LCO07\04229\Traffic\010_CAB_Cambridge	Wds.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20'	CHECKED -	REVISED -
	PLOT DATE = 1/22/2013	DATE -	REVISED -



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

**CONSTRUCTION NOTE:**  
 ① THE TRAFFIC SIGNAL CONTROLLER SHALL BE NTCIP COMPATIBLE.

- CABLE PLAN LEGEND**
- |            |            |  |
|------------|------------|--|
| EXISTING   | PROPOSED   |  |
| (R)        | (R)        | 12" (300mm) TRAFFIC SIGNAL SECTION   |
| (W)        | (W)        | 12" (300mm) PEDESTRIAN SIGNAL SECTION  |
| (C)        | (C)        | 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER   |
| (S)        | (S)        | CONTROLLER CABINET   |
| (I)        | (I)        | SERVICE INSTALLATION   |
| (T)        | (T)        | TELEPHONE INSTALLATION   |
| (D)        | (D)        | DETECTOR LOOP, TYPE 1  |
| (E)        | (E)        | EMERGENCY VEHICLE LIGHT DETECTOR   |
| (B)        | (B)        | CONFIRMATION BEACON  |
| (P)        | (P)        | PUSHBUTTON DETECTOR  |
| (2)        | (2)        | 2 DENOTES NUMBER OF CONDUCTORS. ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED. |
| (1)        | (1)        | 1 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C UNLESS NOTED OTHERWISE   |
| (24SM)     | (24SM)     | FIBER OPTIC CABLE IN CONDUIT 24SM  |
| (R)        | (R)        | SIGNAL FACE WITH BACKPLATE   |
| (P)        | (P)        | "P" INDICATES PROGRAMMED HEAD.   |
| (C)        | (C)        | GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE                                     |
| (L)        | (L)        | LUMINAIRE  |
| (V)        | (V)        | VIDEO DETECTION CAMERA   |
| (PTZ)      | (PTZ)      | DOME CAMERA (PAN/TILT/ZOOM)  |
| (ECC)      | (ECC)      | VIDEO COMMUNICATIONS CABINET   |
| (ST. NAME) | (ST. NAME) | L.E.D. STREET NAME SIGN  |
| (UPS)      | (UPS)      | UNINTERRUPTIBLE POWER SUPPLY   |
| (C)        | (C)        | COAXIAL CABLE  |
| (V)        | (V)        | VENDOR CABLE FOR CAMERA  |

**SCHEDULE OF QUANTITIES**

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	267
DETECTABLE WARNINGS	SQ FT	73
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	336
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	173
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	14
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	89
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	206
HANDHOLE	EACH	3
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP - TYPE USE) 1/C NO. 10	FOOT	1100
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	3
MAINTENANCE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	813
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	741
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	907
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	603
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	194
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 30 FT. (SPECIAL)	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 32 FT. (SPECIAL)	EACH	1
CONCRETE FOUNDATION TYPE A	FOOT	8
CONCRETE FOUNDATION TYPE C	FOOT	4
CONCRETE FOUNDATION TYPE E, 36-INCH DIAMETER	FOOT	45
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	6
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
PEDESTRIAN PUSH-BUTTON	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	99
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	2
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
VIDEO ENCODER	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	FOOT	543
ELECTRIC CABLE IN CONDUIT NO. 20 3C, TWISTED, SHIELDED	FOOT	356
ELECTRIC CABLE IN CONDUIT, VIDEO NO. 18 3C	FOOT	590

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM</b>			
F.A.I. RTE. 1209	SECTION 03-00033-12-CH	COUNTY LAKE	TOTAL SHEETS NO. 111
SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 63766
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			