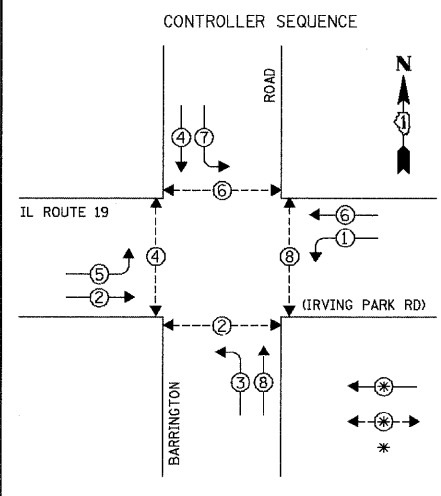


DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 CHECKED: _____
 REVISIONS: _____
 NO. _____

CHRISTOPHER B. BURKE ENGINEERING LTD.
 5975 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 821-0500

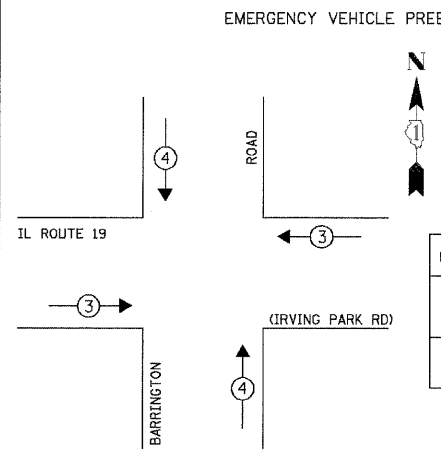
DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 CHECKED: _____
 REVISIONS: _____
 NO. _____



LEGEND

← ⊕ → DUAL ENTRY PHASE
 ← ⊙ → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS

EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE X INCAND. LED X % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	17	153.00
(YELLOW)	18	25	112.50
(GREEN)	18	15	67.50
ARROW	16	12	19.20
PED. SIGNAL	8	25	200.00
CONTROLLER	1	100	100.00
ILLUM. SIGN	-	25	0.05
VIDEO SYSTEM	-	150	1.00
FLASHER	-	-	0.50

ENERGY COSTS TO: TOTAL = 652.20

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: MARTY RUBIN
 PHONE: (617) 608-2400
 COMPANY: COMED

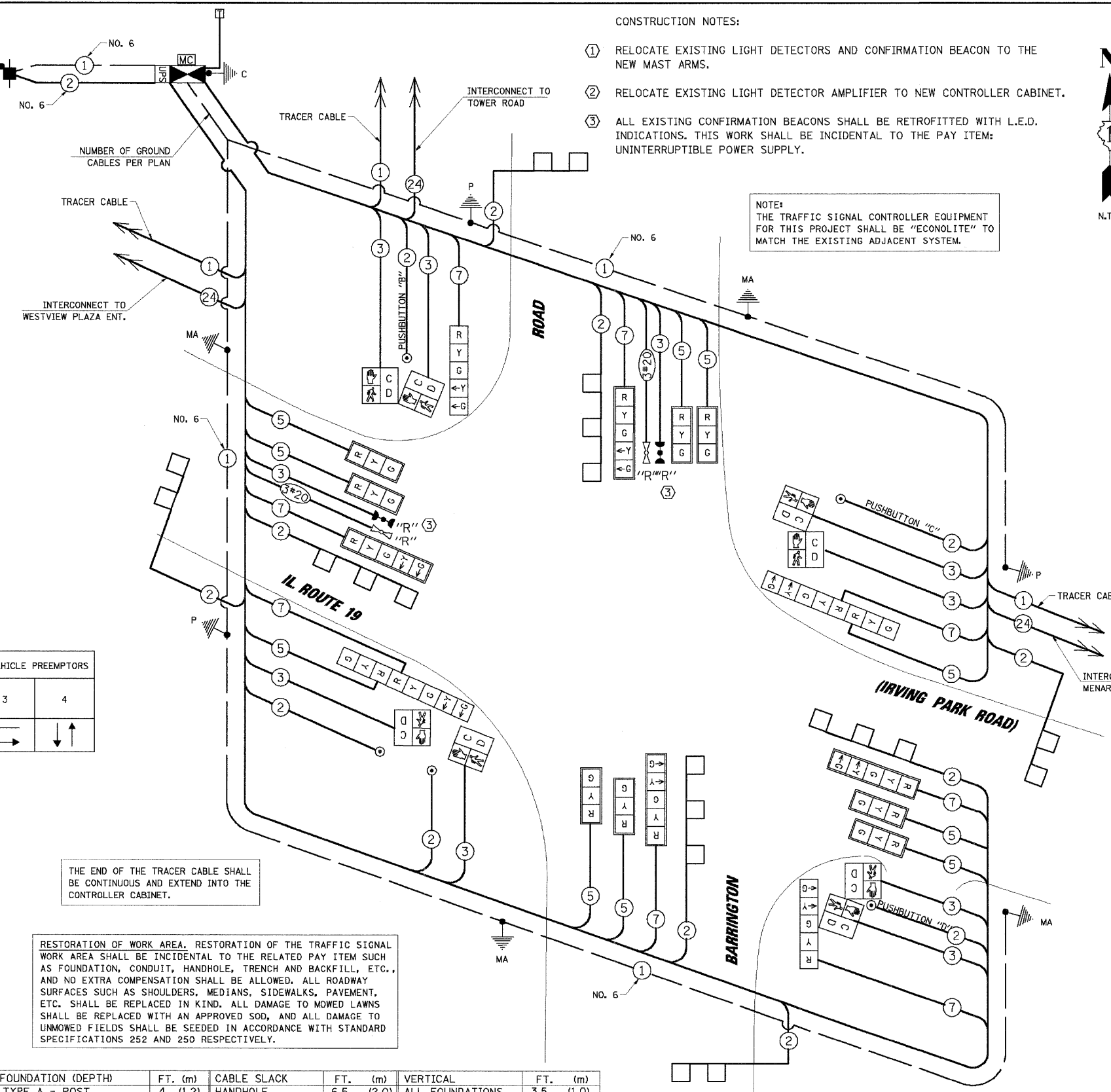
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C - CONTROLLER W/ UPS	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2" (6m+L-0.6m)
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
E - M. ARM POLE	-	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	6 (1.8)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
42" (1050mm)	25 (7.6)	GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM 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 SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

- CONSTRUCTION NOTES:**
- RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACON TO THE NEW MAST ARMS.
 - RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.
 - ALL EXISTING CONFIRMATION BEACONS SHALL BE RETROFITTED WITH L.E.D. INDICATIONS. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM: UNINTERRUPTIBLE POWER SUPPLY.

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



CABLE PLAN

NOTE: 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.

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 WITH COUNTDOWN TIMER
[Symbol]	[Symbol]	CONTROLLER CABINET
[Symbol]	[Symbol]	SERVICE INSTALLATION
[Symbol]	[Symbol]	TELEPHONE INSTALLATION
[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]	24 FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
[Symbol]	[Symbol]	SIGNAL FACE WITH BACKPLATE
[Symbol]	[Symbol]	"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]	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
[Symbol]	[Symbol]	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
[Symbol]	[Symbol]	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
[Symbol]	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY
[Symbol]	[Symbol]	"R" RELOCATED

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5" THICK	SQ FT	1006
DETECTABLE WARNINGS	SQ FT	115
COMBINATION CURB AND GUTTER REMOVAL	FOOT	180
SEWER REPAIR	FOOT	1026
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	233
CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	452
MEDIAN REMOVAL	SQ FT	120
MEDIAN REMOVAL AND REPLACEMENT, SPECIAL	SQ FT	18
SIGN PANEL - TYPE 1	SQ FT	39
SIGN PANEL - TYPE 2	SQ FT	254.0
THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	FOOT	220
THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	961
THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	750
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	188
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	SQ FT	558
CONDUIT IN TRENCH, 2" DIA. GALVANIZED STEEL	FOOT	913
CONDUIT IN TRENCH, 3" DIA. GALVANIZED STEEL	FOOT	206
CONDUIT IN TRENCH, 4" DIA. GALVANIZED STEEL	FOOT	10
CONDUIT IN TRENCH, 6" DIA. GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA. GALVANIZED STEEL	FOOT	564
CONDUIT PUSHED, 4" DIA. GALVANIZED STEEL	FOOT	300
HANDHOLE	EACH	6
HEAD GUTTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1345
FULL-ACTIVATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 SC	FOOT	1049
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 SC	FOOT	219
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 SC	FOOT	229
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 SC	FOOT	181
ELECTRIC CABLE IN CONDUIT, LEAD IN NO. 14 1" R	FOOT	278
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 8 SC	FOOT	39
TRAFFIC SIGNAL POST GALVANIZED STEEL 18 FT	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE 30 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 32 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 34 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE 46 FT	EACH	1
CONCRETE FOUNDATION TYPE A	FOOT	12
CONCRETE FOUNDATION TYPE C	FOOT	4
CONCRETE FOUNDATION TYPE E 3" BRANCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-SECTION BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3
TRAFFIC SIGNAL BACKPLATE, POLYMER, ALUMINUM	EACH	12
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTABLE LOOP, TYPE 1	EACH	773
PEDESTRIAN PUSHBUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING VEHICLE PRIORITY SYSTEM DETECTOR UNIT	EACH	2
RELOCATE EXISTING VEHICLE PRIORITY SYSTEM PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	14
REMOVE EXISTING CONCRETE FOUNDATION	EACH	12
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 SC	FOOT	914
ELECTRIC CABLE IN CONDUIT, NO. 20 SC, TWISTED, SHIELDED	FOOT	518
PAVEMENT REPLACEMENT, SPECIAL	SQ YD	124

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 19 (IRVING PARK ROAD) AND BARRINGTON ROAD

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	14

CONTRACT NO. 60G39

FILE NAME	USER NAME	DESIGNED	REVISED
...Traffic\CAB.19&Barrington.dgn	FPACONE	ABR	-
		DRAWN	FPB / FCP
		CHECKED	MJT
		DATE	-