

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 60G39		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
DISTRICT 1
HIGHWAY SAFETY IMPROVEMENT PROJECT
TRAFFIC SIGNAL MODERNIZATION AND LIGHTING
IL ROUTE 19 (IRVING PARK ROAD)
WEST OF WESTVIEW PLAZA ENTRANCE
TO EAST OF KINGSBURY DRIVE
HANOVER PARK, ILLINOIS

F.A.U. ROUTE 1321 / ILL 19 (IRVING PARK ROAD)
SECTION 2009-034 TS
PROJECT NO. *HSIP-1321(019)*
COOK COUNTY
C-91-401-09



STD. No.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATION AND PATTERNS
001006	DECIMAL OF AN INCH AND A FOOT
424001-05	CURB RAMPS FOR SIDEWALKS
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	P.C. CONCRETE ISLANDS AND MEDIANS
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-02	OFF-RD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-06	URBAN LANE CLOSURE, MULTILANE 1W OR 2W NON-TRAVERSABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARDS PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-04	STEEL MAST ARM ASSEMBLY AND POLE
878001-07	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS



PREPARED BY: *Steve Travia* 3/13/09
TRAFFIC ENGINEER DATE

George M. Ziegler 3-13-09
ENGINEER DATE
GEORGE M. ZIEGLER
ILLINOIS REGISTRATION No. 062-045853
EXPIRATION DATE: 11-30-2009
PROFESSIONAL DESIGN FIRM No.: 164-001742
EXPIRATION DATE: 04-30-2009

SHEETS 5-31

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 60G39

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *March 20* 2009
Devin M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8, 2009
Charles G. Ingrosso
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

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15" (381 mm) BOLT CIRCLE</p> <p>43 ALUMINUM LIGHT POLE, 47'-6" (14.478 m) MOUNTING HEIGHT</p> <p>44 LUMINAIRE SAFETY CABLE ASSEMBLY</p> <p>45 MISC. ELECTRICAL DETAILS, SHEET A</p> |
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PROF ILE SURVEYED _____ PLOTTED _____ S.M. NOTED _____ STRUCTURE NOTATION CPND _____ NOTE BOOK NO. _____	PLAN SURVEYED _____ ALIGNED _____ RT. OF WAY CHECKED _____ PWD FILE NAME _____ NOTE BOOK NO. _____
BY _____ DATE _____	BY _____ DATE _____

CHRISTOPHER B. BURKE ENGINEERING LTD.
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 Rosemont, Illinois 60018
 (847) 825-0500

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FILE NAME =	USER NAME = kenthaphixjbc	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS IL. ROUTE 19 (IRVING PARK ROAD) AT WESTVIEW CENTER TO KINGSBURY DRIVE HANOVER PARK, ILLINOIS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEABBREV#	PLOT SCALE = 20,000' / IN.	DRAWN - FPB / FCP	REVISED -		SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.	1321	2009-034-TS	COOK	45	2
PLOT DATE = 3/18/2009	DATE	CHECKED - MJT	REVISED -						CONTRACT NO.					
		DATE	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	ILL Route 19 at Westview Plaza Ent.		ILL Rte 19 at Barrington Road		ILL Rte 19 at Kingsbury Drive		Interconnect	Lighting
				Y031 1F	Y031 3D *	Y031 1F	Y031 3D *	Y031 1F	Y031 3D *	Y031 1F	Y030 1E
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2699	250		1836		613			
42400800	DETECTABLE WARNINGS	SQ FT	220	24		115		81			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	160			160					
44000600	SIDEWALK REMOVAL	SQ FT	2486	250		1629		607			
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	492	78		330		84			
44002020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	233			233					
44003100	MEDIAN REMOVAL	SQ FT	490			490					
44003500	MEDIAN REMOVAL AND REPLACEMENT (SPECIAL)	SQ FT	120			120					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2		2		2			
67100100	MOBILIZATION	LSUM	1	0.25		0.25		0.25		0.25	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	0.25		0.25		0.25		0.25	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	0.25		0.25		0.25		0.25	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	0.25		0.25		0.25		0.25	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	0.25		0.25		0.25		0.25	
** 72000100	SIGN PANEL - TYPE 1	SQ FT	34.5			18		16.5			
** 72000200	SIGN PANEL - TYPE 2	SQ FT	82.5	37.5		30		15			
** 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	254.8			254.8					
** 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	220			220					
** 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	991			991					
** 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1152	150		750		252			
** 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	411	103		188		120			
** 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	114					114			
** 78300100	PAVEMENT MARKING REMOVAL	SQ FT	2234	252		1639		343			
80400100	ELECTRICAL SERVICE INSTALLATION	EACH	1								1
80400200	ELECTRICAL UTILITY SERVICE CONNECTION	LSUM	1								1
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	2456	461		913		385		697	
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	383	22		296		65			
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	106	91		10		5			
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	110	10		100					
81001100	CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	20					10			
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1500	166		564		233		537	
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	2200								2200
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	894	177		390		327			
81400100	HANDHOLE	EACH	14	5		6		3			
81400200	HEAVY-DUTY HANDHOLE	EACH	8	2		4		2			
81400300	DOUBLE HANDHOLE	EACH	5	1		2		2			
81701385	ELECTRICAL CABLE IN CONDUIT, 600 V (EPR-TYPE USE), 3-1/C 350MCM	FOOT	100								100
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	9252	631		1345		579		697	6000
82102310	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 W	EACH	41								41
83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M. H., 15 FT. MAST ARM	EACH	41								41
83600315	LIGHT POLE FOUNDATION, 30" DIAMETER, OFFSET	FOOT	40								40
83600400	POLE FOUNDATION, METAL	EACH	41								41
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	41								41
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4							4	
85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	2	1				1			
85700305	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1			1					
86000105	MASTER CONTROLLER (SPECIAL)	EACH	1							1	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	3	1		1		1			
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1758	182		1049		527			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3988	196	449	1794	343	948	258		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5715	1761		2323		1631			
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2702	229		1851		622			

* 100% COST TO THE VILLAGE OF HANOVER PARK

*** SPECIALTY ITEMS*

DATE _____ BY _____
 DATE _____ BY _____
 DATE _____ BY _____
 DATE _____ BY _____
 DATE _____ BY _____
 DATE _____ BY _____

CHRISTOPHER B. BURKE
 ENGINEERING LTD.
 833 North State Street
 Rosemont, Illinois 60018
 (847) 823-9500

FILE NAME =	USER NAME = kmthaphxkybo	DESIGNED - ABR	REVISED -		ILL ROUTE 19 (IRVING PARK ROAD) AT WEST OF WESTVIEW PLAZA ENT. TO EAST OF KINGSBURY DRIVE HANOVER PARK, ILLINOIS	F.A.J. RTE. 1321	SECTION 2009-034-TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 3
#FILEABBREV#	PLOT SCALE = 20,0000 / IN.	CHECKED - MJT	REVISED -							
	PLOT DATE = 3/18/2009	DATE -	REVISED -							

SCALE: 1" = 20,000' SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 60639

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL	ILL Route 19 at Westview Plaza Ent.		ILL Rte 19 at Barrington Road		ILL Rte 19 at Kingsbury Drive		Interconnect Y031 1F	Lighting Y030 1E
				Y031 1F	Y031 3D *	Y031 1F	Y031 3D *	Y031 1F	Y031 3D *		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PAIR	FOOT	6170	1663		2730		1777			
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	224	71		39		114			
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	1					1			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	5	1		3		1			
87700140	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT.	EACH	1					1			
87700150	STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1	1							
87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	2	1		1					
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1			1					
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	3	1		1		1			
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1					1			
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1			1					
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24	4		12		8			
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	12	4		4		4			
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	45	30				15			
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	105	15		60		30			
87900200	DRILL EXISTING HANDHOLE	EACH	6					2		4	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	23	7		8		8			
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	2				2			
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5	1		2		2			
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	7	1		4		2			
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, BRACKET MOUNTED	EACH	2			2					
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6	2		2		2			
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	5			3		2			
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	30	8		12		10			
88500100	INDUCTIVE LOOP DETECTOR	EACH	24	7		8		9			
88600100	DETECTOR LOOP, TYPE I	FOOT	2000	543		773		684			
88700200	LIGHT DETECTOR	EACH	2		2						
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1		1						
88800100	PEDESTRIAN PUSH-BUTTON	EACH	11	2		5		4			
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	3	1		1		1			
89501400	RELOCATE EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	3				2		1		
89501410	RELOCATE EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2				1		1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	11067					361		10706	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	1		1		1			
89502380	REMOVE EXISTING HANDHOLE	EACH	30	8		14		8			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	27	8		12		7			
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4							51.4	
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	8589							8589	
X0324387	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	41								41
X0325705	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	3							3	
X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	1		1		1			
X0945500	PAINT EXISTING POLE COMPLETE	EACH	1						1		
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	3	1		1		1			
X8250085	LIGHTING CONTROLLER, DUPLEX CONSOLE TYPE	EACH	1								1
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	3	1		1		1			
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	8754							8754	
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	2052	464		914		674			
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	1050		449		343	258			
X0326164	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	3						3		
X0325037	PAINT NEW SIGNAL POST	EACH	2						2		
XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	3								3
X0326458	PAVEMENT REPLACEMENT, SPECIAL	SQ YD	124			124					
B1603210	UNIT DUCT, 3-1/2" NO. 4, 1/2" NO. 6 GROUND, [600V], (EPR-TYPE RHW), 1 1/4" DIA, POLYETHYLENE	FOOT	7500								7500

* 100% COST TO THE VILLAGE OF HANOVER PARK

PROFILE: CHARLES CHECKED STRUCTURE NOTATIONS: CTRD
 PLAN: NO. _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 DATE: _____
 BY: _____
 FILE NAME: _____
 DATE: _____
 BY: _____
 FILE ABBREV: _____
 PLOT SCALE: 20,0000' / IN.
 PLOT DATE: 3/18/2009

CHRISTOPHER B. BURKE ENGINEERING LTD.
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 (847) 823-0500

NOTES FOR TEMPORARY TRAFFIC SIGNALS

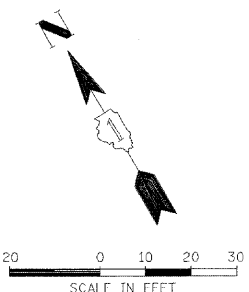
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

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

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 SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

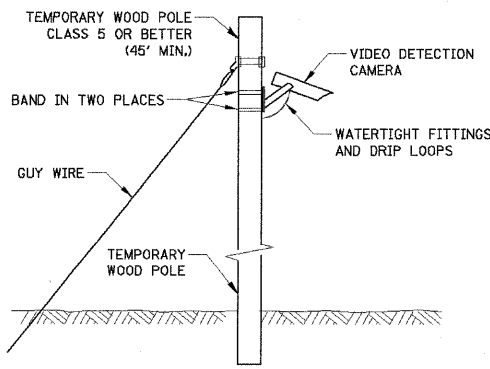
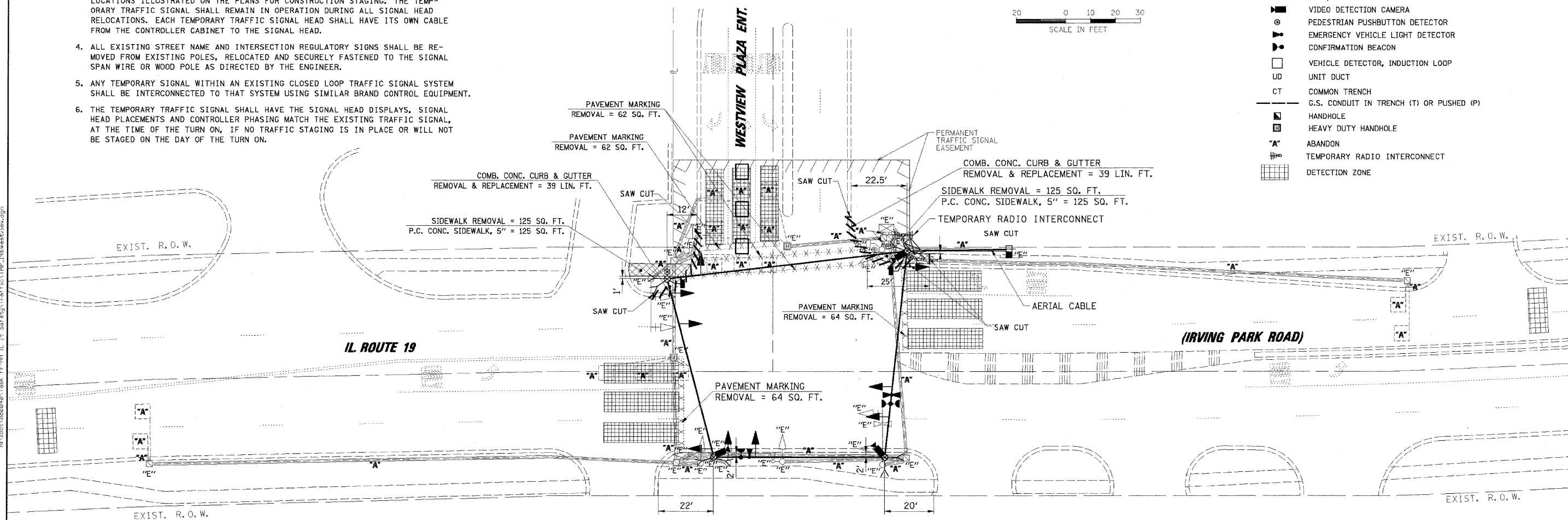
TEMPORARY TRAFFIC SIGNAL LEGEND

- ◀ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ▶ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- DOWN GUY
- ☒ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ☐ TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- VIDEO DETECTION CAMERA
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- ⊖ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊕ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- UD UNIT DUCT
- CT COMMON TRENCH
- G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
- ☑ HANDHOLE
- ☑ HEAVY DUTY HANDHOLE
- ABANDON
- ⊙ TEMPORARY RADIO INTERCONNECT
- ▭ DETECTION ZONE



DATE	BY	DATE	BY
PROFILE SURVEYED		TEMPORARY TRAFFIC SIGNALS	
NOTES		NOTES	
DATE		DATE	

CHRISTOPHER B. BURKE ENGINEERING LTD.
8575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(630) 825-0500



TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- AGENCY: VILLAGE OF HANDOVER PARK
- 2 EACH EMERGENCY VEHICLE LIGHT DETECTOR
 - 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 1 EACH SIGNAL HEAD, 3-FACE, 3-3 SECTION
- 2 EACH STEEL MAST ARM AND POLE
- 5 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH TRAFFIC SIGNAL BACKPLATE

EXISTING EQUIPMENT TO BE REMOVED LEGEND

- “E” ◀ EXISTING SIGNAL HEAD TO BE REMOVED
- “E” □ EXISTING SERVICE INSTALLATION TO BE REMOVED
- “E” ○ EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- “E” ⌣ EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
- “E” ☒ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- “E” □ EXISTING HANDHOLE TO BE REMOVED
- “E” □ EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- “E” ⊙ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- “E” ⊖ EXISTING EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
- “E” ⊕ EXISTING CONFIRMATION BEACON TO BE REMOVED
- “E” □ EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
- “E” ⌣ EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

FILE NAME = ...Traffic\TMP_19\Westview.dgn

USER NAME = FPACIONE	DESIGNED - ABR	REVISED -
	DRAWN - FPB / FCP	REVISED -
	CHECKED - MUT	REVISED -
PLOT DATE = 3/18/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT IL ROUTE 19 (IRVING PARK ROAD) AND WESTVIEW PLAZA ENTRANCE

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	5
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT No. 60639	

DATE: _____ BY: _____
 PROFILE SURVEYED: _____
 NOTE BOOK: _____
 NO. _____
 DATE: _____ BY: _____
 PLAN: _____
 NOTE BOOK: _____
 NO. _____
 DATE: _____ BY: _____
 I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

CHRISTOPHER B. BURKE ENGINEERING LTD.
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 Rosemont, Illinois 60018
 (847) 823-0300

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TYPE	NO. OF LAMPS	WATTAGE		TOTAL WATTAGE
		X IN CAND.	LED x % OPERATION	
SIGNAL (RED)	9	17	0.50	76.50
(YELLOW)	9	25	0.25	56.25
(GREEN)	9	15	0.25	33.75
ARROW	4	12	0.10	4.80
PED. SIGNAL	2	25	1.00	50.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	-	25	0.05	-
VIDEO SYSTEM	1	150	1.00	150.00
FLASHER	-	-	0.50	-
ENERGY COSTS TO: TOTAL =				471.30

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MARTY RUBIN
 PHONE: (847) 608-2400
 COMPANY: COMED

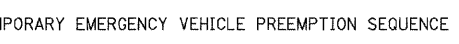
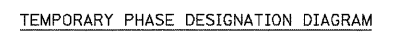
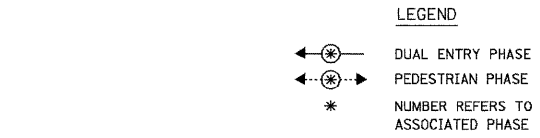
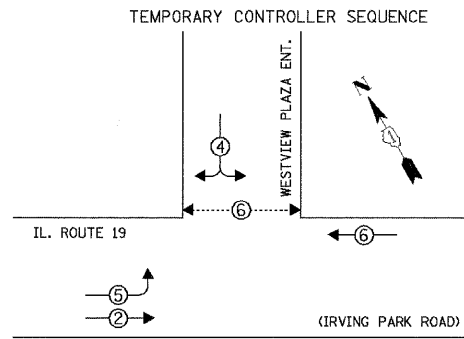
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C - CONTROLLER W/ UPS	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2' =
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	(6m+L-0.6m) =	
E - M. ARM POLE		CONTROLLER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

FILE NAME =	USER NAME = FFCACIONE	DESIGNED - ABR	REVISED -
...Traf\TCS19\Westview.dgn		DRAWN - FPB / FCP	REVISED -
		CHECKED - MJT	REVISED -
		DATE -	REVISED -

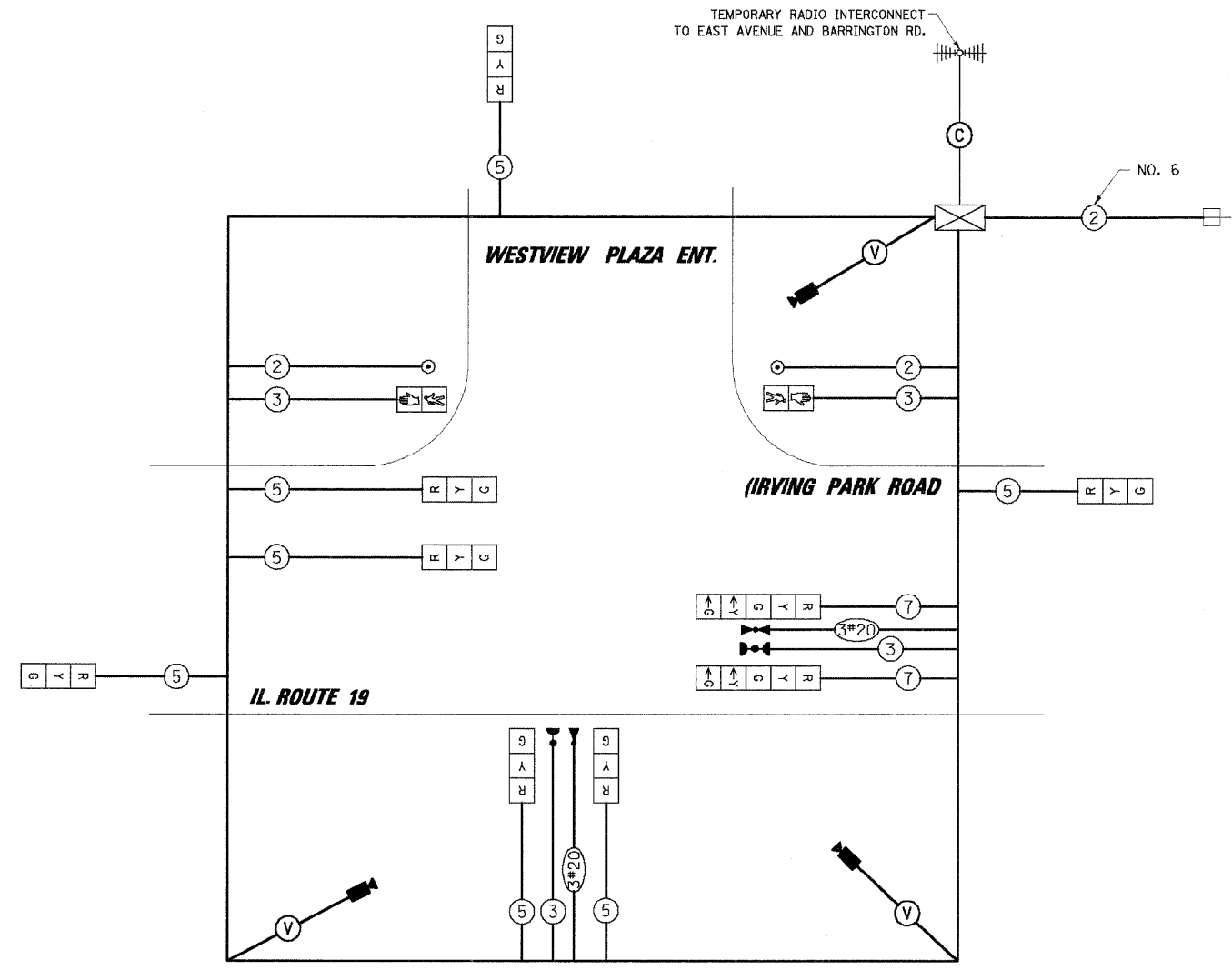
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND
 TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 IL ROUTE 19 (IRVING PARK ROAD) AND WESTVIEW PLAZA ENTRANCE**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	6
CONTRACT NO. 60G39				
SCALE: N.T.S.		SHEET NO. OF SHEETS		STA. TO STA.
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓



- TEMPORARY CABLE DIAGRAM LEGEND**
- [R] TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
 - [X] TEMPORARY CONTROLLER CABINET
 - [S] TEMPORARY SERVICE INSTALLATION
 - (5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
 - [V] EMERGENCY VEHICLE LIGHT DETECTOR
 - [B] CONFIRMATION BEACON
 - [□] VEHICLE DETECTOR, INDUCTION LOOP
 - [○] PEDESTRIAN PUSHBUTTON DETECTOR
 - [P] 12" (300mm) PEDESTRIAN SIGNAL SECTION
 - [C] VIDEO DETECTION CAMERA
 - [V] VENDOR CABLE
 - [H] TEMPORARY RADIO INTERCONNECT
 - [C] COAXIAL CABLE

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

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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

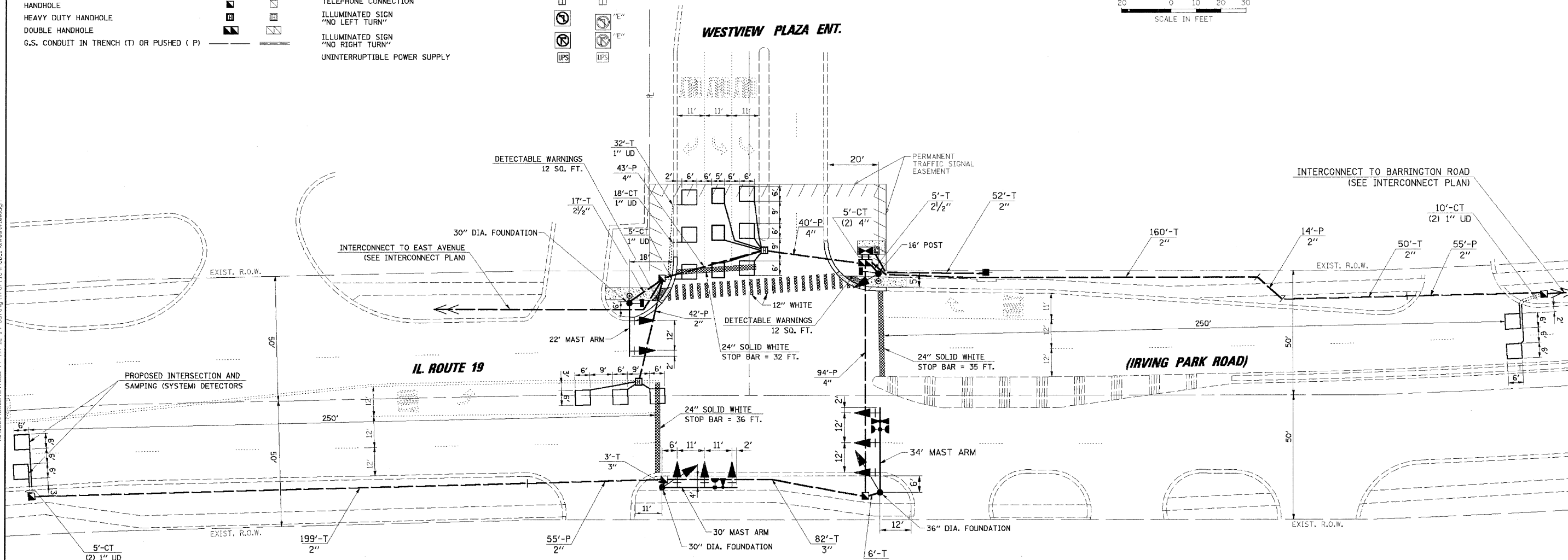
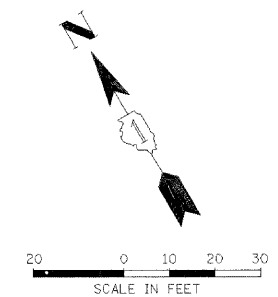
PROFILE SURVEYED BY DATE
 NOTE BOOK NO. CHECKED BY DATE
 STRUCTURE NOTATIONS CRKD

PLAN SURVEYED BY DATE
 NOTE BOOK NO. CHECKED BY DATE
 ROAD FILE NAME

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 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING	PROPOSED	EXISTING
CONTROLLER	[Symbol]	PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]
SERVICE INSTALLATION	[Symbol]	DETECTOR LOOP	[Symbol]
SIGNAL HEAD	[Symbol]	CAST IRON JUNCTION BOX	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]
SIGNAL HEAD, PEDESTRIAN	[Symbol]	CONFIRMATION BEACON	[Symbol]
SIGNAL POST	[Symbol]	SIGNAL HEAD OPTICALLY PROGRAMMED	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	CONDUIT SPLICE	[Symbol]
MAST ARM ASSEMBLY AND POLE, ALUMINUM	[Symbol]	WOOD POLE	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	[Symbol]
UNIT DUCT	[Symbol]	VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	[Symbol]
COMMON TRENCH	[Symbol]	RAILROAD CONTROL CABINET	[Symbol]
HANDHOLE	[Symbol]	TELEPHONE CONNECTION	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	ILLUMINATED SIGN "NO LEFT TURN"	[Symbol]
DOUBLE HANDHOLE	[Symbol]	ILLUMINATED SIGN "NO RIGHT TURN"	[Symbol]
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	[Symbol]	UNINTERRUPTIBLE POWER SUPPLY	[Symbol]



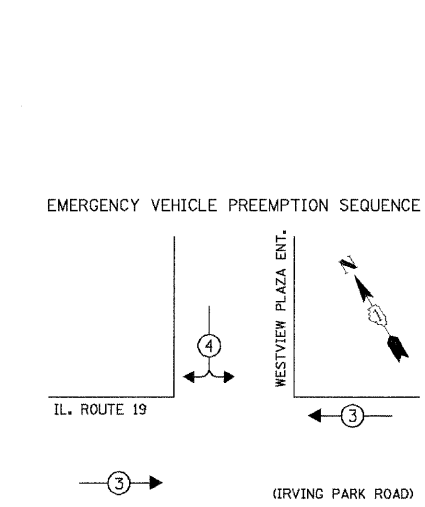
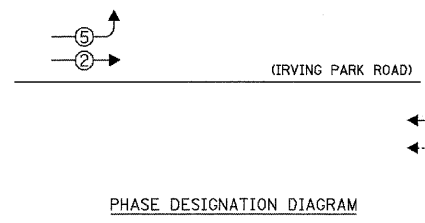
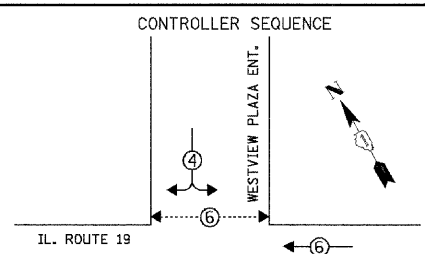
NOTE:
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RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES 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 SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME = ...Traffic\MD0.19&Westview.dgn	USER NAME = FPACIONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 19 (IRVING PARK ROAD) AND WESTVIEW PLAZA ENTRANCE		F.A.U. RTE. 1321	SECTION 2009-034 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 7
PLOT SCALE = 20'	PLOT DATE = 3/18/2009	DRAWN - FPB / FCP	REVISED -		SCALE: 1" = 20'	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 60639	
		CHECKED - MJT	REVISED -								
		DATE -	REVISED -								

PROFILE
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 ALIGNED: _____
 CHECKED: _____
 NO. OF WAYS CHECKED: _____
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 PLAN
 DATE: _____ BY: _____
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 I.D.O.T.
 DATE: _____ BY: _____
 SURVEYED: _____
 ALIGNED: _____
 CHECKED: _____
 NO. OF WAYS CHECKED: _____
 CAD FILE NAME: _____

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0300
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PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	→

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE X INCAND. LED X % OPERATION			
SIGNAL (RED)	11	17	0.50		93.50
(YELLOW)	11	25	0.25		68.75
(GREEN)	11	15	0.25		41.25
ARROW	4	12	0.10		4.80
PED. SIGNAL	2	25	1.00		50.00
CONTROLLER	1	100	1.00		100.00
ILLUM. SIGN	-	25	0.05		-
VIDEO SYSTEM	-	150	1.00		-
FLASHER				0.50	
ENERGY COSTS TO:				TOTAL =	358.30

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MARTY RUBIN
 PHONE: (847) 608-2400
 COMPANY: COMED

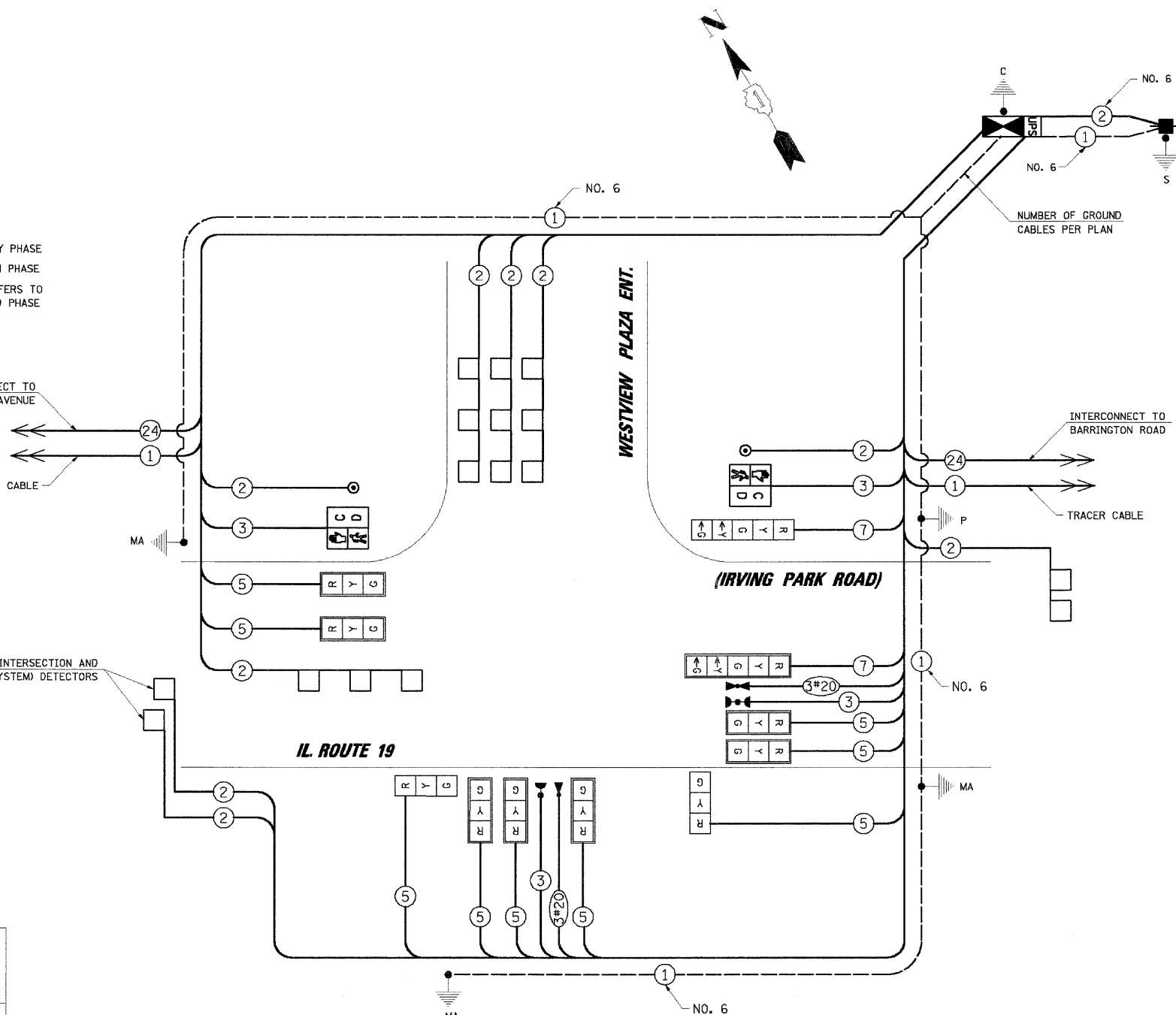
LEGEND
 ⊕ DUAL ENTRY PHASE
 ⊕ PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

INTERCONNECT TO EAST AVENUE
 TRACER CABLE
 MA

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

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)		
E - M. ARM POLE		CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
	30" (750mm)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	6 (1.8)
	36" (900mm)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
	42" (1050mm)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

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 SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



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

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

CABLE PLAN LEGEND

EXISTING	PROPOSED	DESCRIPTION
⊕	⊕	8" (200mm) TRAFFIC SIGNAL SECTION
⊕	⊕	12" (300mm) TRAFFIC SIGNAL SECTION
⊕	⊕	12" (300mm) PEDESTRIAN SIGNAL SECTION
⊕	⊕	12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER
⊕	⊕	CONTROLLER CABINET
⊕	⊕	SERVICE INSTALLATION
⊕	⊕	TELEPHONE INSTALLATION
⊕	⊕	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 2-MM12F SMI2F
⊕	⊕	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

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ.FT.	250
DETECTABLE WARNINGS	SQ.FT.	24
SIDEWALK REMOVAL	SQ.FT.	250
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	78
SIGN PANEL - TYPE 2	SQ.FT.	37.5
THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	150
THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	103
PAVEMENT MARKING REMOVAL	SQ.FT.	252
CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL	FOOT	461
CONDUIT IN TRENCH, 2 1/2" DIA, GALVANIZED STEEL	FOOT	22
CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL	FOOT	81
CONDUIT IN TRENCH, 4" DIA, GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA, GALVANIZED STEEL	FOOT	166
CONDUIT PUSHED, 4" DIA, GALVANIZED STEEL	FOOT	177
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	631
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	182
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	845
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1761
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	229
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1 PR	FOOT	1663
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	71
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	7
DETECTOR LOOP, TYPE I	FOOT	543
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSHBUTTON	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	8
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
TEMPORARY TRAFFIC SIGNAL TRING	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	464
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	449

FILE NAME = ...:\Traffic\CAB_IL19\Westview.dgn
 USER NAME = FFACTIONE
 DESIGNED - ABR
 DRAWN - FPB / FCP
 PLOT SCALE = 20'
 PLOT DATE = 3/18/2009

REVISIONS
 REVISION NO. | DATE | BY | DESCRIPTION
 1 | | |
 2 | | |
 3 | | |

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 WESTVIEW PLAZA ENTRANCE
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	8
CONTRACT NO. 60G39			ILLINOIS FED. AID PROJECT	

CONSTRUCTION NOTES:

- RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACON TO THE NEW MAST ARMS.
- RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.
- RELOCATE EXISTING MASTER CONTROLLER TO TEMPORARY TRAFFIC SIGNAL CABINET.
- EXISTING TELEPHONE SERVICE TO BE MAINTAINED. THIS WORK IS INCIDENTAL TO THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

TEMPORARY TRAFFIC SIGNAL LEGEND

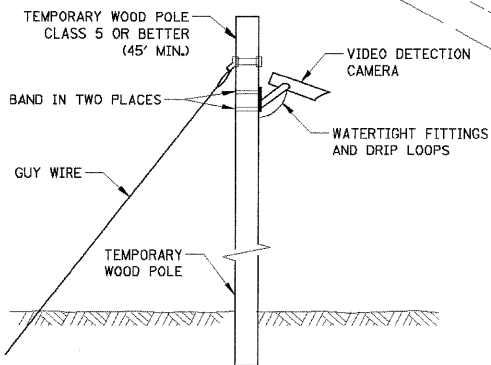
- | | | | |
|---|--|-----|--|
| ▲ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION | ⊞ | MACHINE VISION PROCESSOR |
| ▲ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION | ⊙ | PEDESTRIAN PUSHBUTTON DETECTOR |
| ⊙ | TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM DOWN GUY | ⊞ | EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON |
| ⊞ | TEMPORARY CONTROLLER CABINET | □ | VEHICLE DETECTOR, INDUCTION LOOP |
| ⊞ | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE | UD | UNIT DUCT |
| ⊞ | TEMPORARY SERVICE INSTALLATION | CT | COMMON TRENCH |
| ⊞ | TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED | — | G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) |
| ⊞ | TEMPORARY RADIO INTERCONNECT | ⊞ | HANDHOLE |
| | | ⊞ | HEAVY DUTY HANDHOLE |
| | | "R" | RELOCATE |
| | | "A" | ABANDON |
| | | ⊞ | DETECTION ZONE |

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- | | | |
|---|------|---|
| 1 | EACH | CONTROLLER AND CABINET (COMPLETE) |
| 2 | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION |
| 4 | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION |
| 2 | EACH | SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION |
| 2 | EACH | SIGNAL HEAD, 3-FACE, 2-3 SECTION, 1-5 SECTION |
| 1 | EACH | STEEL MAST ARM AND POLE |
| 3 | EACH | ALUMINUM MAST ARM AND POLE |
| 7 | EACH | SIGNAL POST |
| 1 | EACH | SERVICE INSTALLATION |
| 4 | EACH | PEDESTRIAN SIGNAL HEAD, 2-FACE |
| 8 | EACH | PEDESTRIAN PUSH-BUTTON |
| 4 | EACH | TRAFFIC SIGNAL BACKPLATE |

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

TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)



NOTES FOR TEMPORARY TRAFFIC SIGNALS

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1. INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

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.

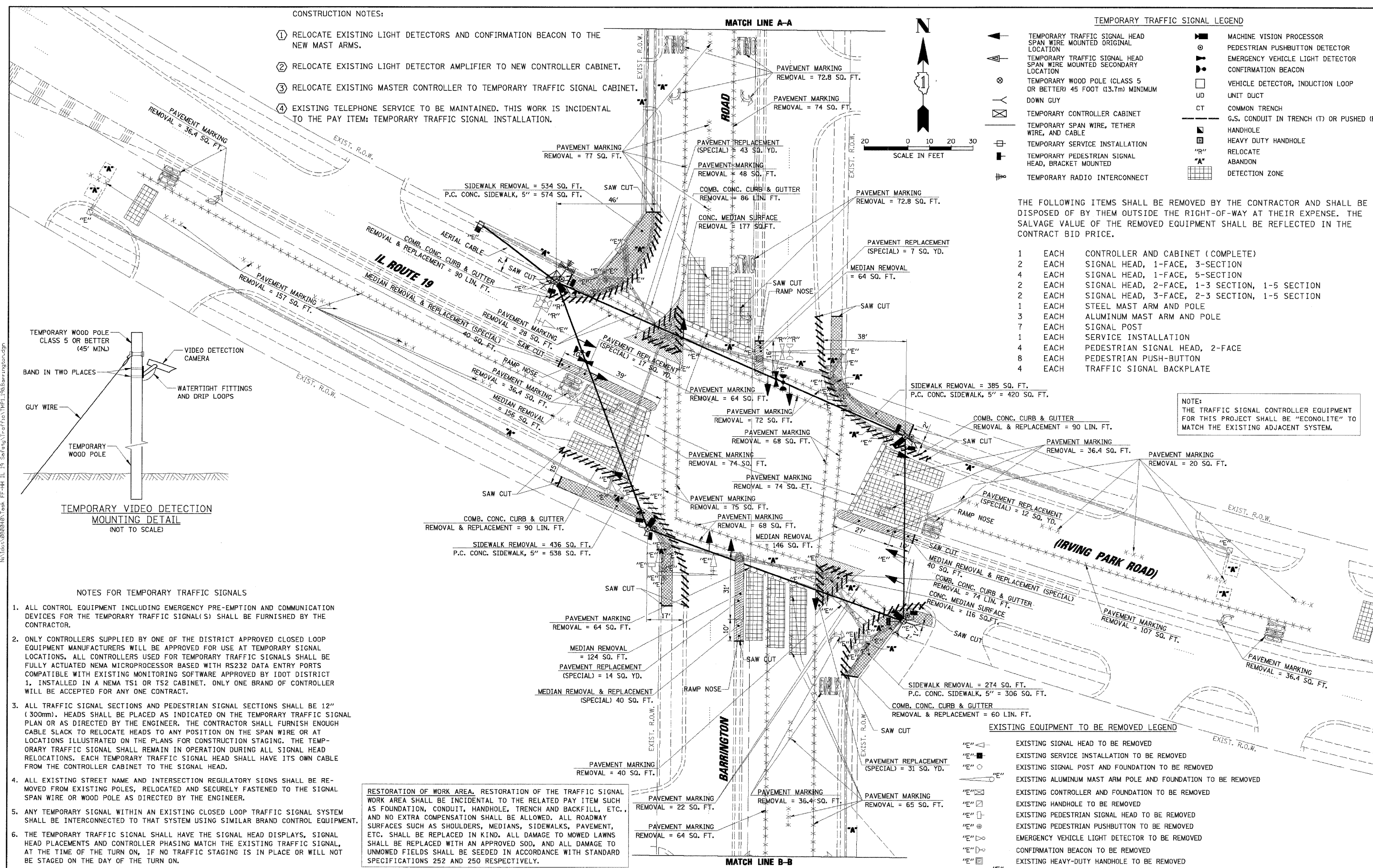
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT IL ROUTE 19 (IRVING PARK ROAD) AND BARRINGTON ROAD

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
...Traffic\TMP11988Barrington.dgn	FFACIONE	ABR	
		DRAWN -	REVISED -
		FPB / FCP	
		CHECKED -	REVISED -
		MJT	
		DATE -	REVISED -

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	9
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60639				

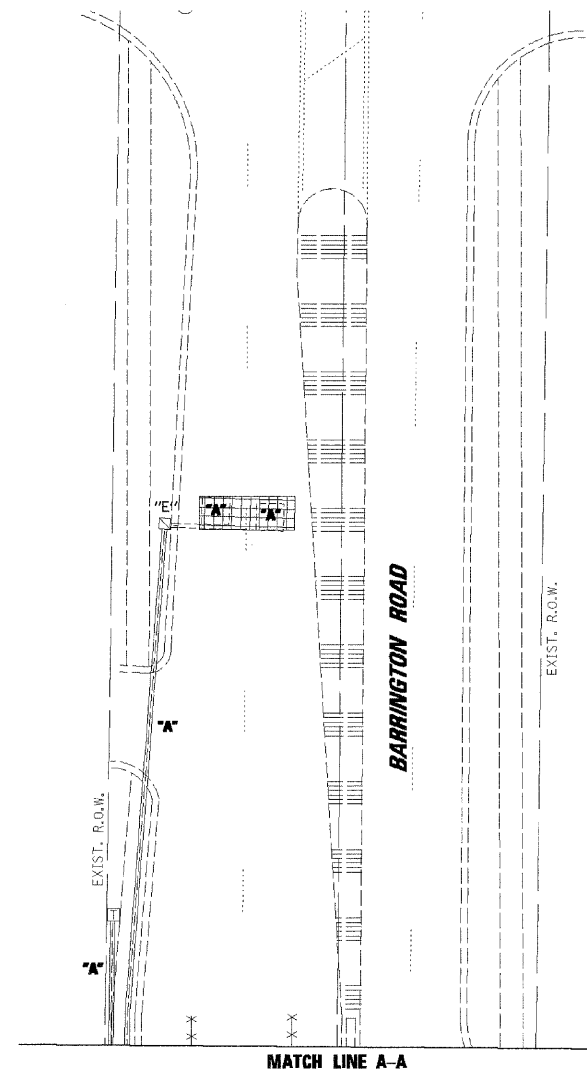
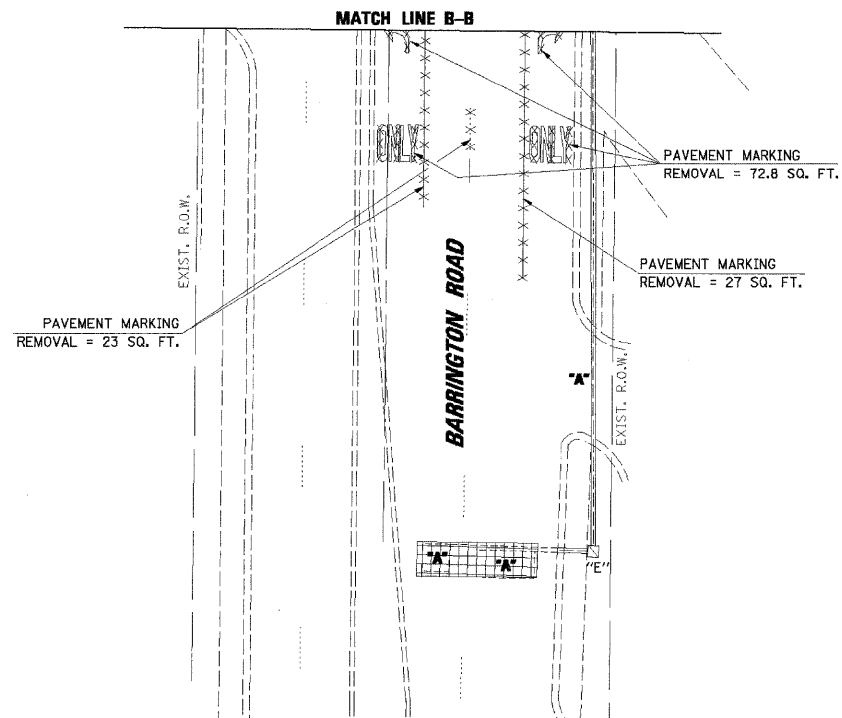
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 PLOTTED: _____ PLOT. OF: _____
 PLAN NO.: _____
 NOTE BOOK NO.: _____
 CAD FILE NAME: _____
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 NOTE BOOK NO.: _____
 STRUCTURE NOTATION: _____
 DATE: _____ BY: _____
 SURVEYED: _____ CHECKED: _____
 PLOTTED: _____ PLOT. OF: _____
 PLAN NO.: _____
 NOTE BOOK NO.: _____
 CAD FILE NAME: _____



PROFILE	SURVEYED	DATE
NOTE BOOK	BY	
NO.		
STRUCTURE NOTATIONS		
ORNO		
PLAN	SURVEYED	DATE
NOTE BOOK	BY	
NO.		
PAVEMENT MARKING		
REMOVAL = 23 SQ. FT.		

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

NA:\dot\980040\Task FF-HH IL 19 Safety\Tce\Fca\TMP2.198Barrington.dgn



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

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 SEEDED IN ACCORDANCE WITH STANDARD
 SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME =	USER NAME = FPACIONE	DESIGNED - ABR	REVISED -
...Traffic\TMP2.198Barrington.dgn		DRAWN - FPB / FCP	REVISED -
		CHECKED - MJT	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND
 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
 IL ROUTE 19 (IRVING PARK ROAD) AND BARRINGTON ROAD**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	10
CONTRACT NO. 60639				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE: _____ BY: _____
 SURVEYED: _____
 ALIGNED: _____
 CHECKED: _____
 DATE: _____
 FILE NAME: _____

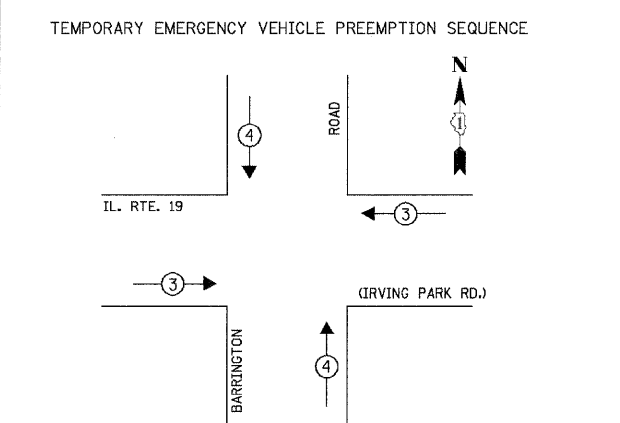
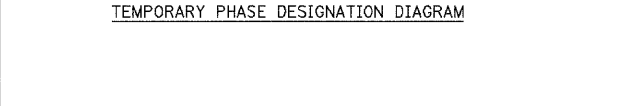
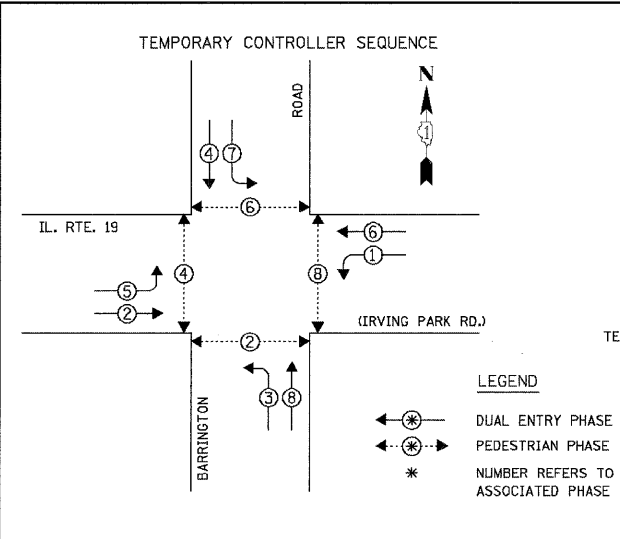
DATE: _____ BY: _____
 PLAN: _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
 PROFILE: _____
 NOTE BOOK: _____
 NO. _____

DATE: _____ BY: _____
 STRUCTURE: _____
 NO. _____

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 Rosemont, Illinois 60018
 (847) 823-0500

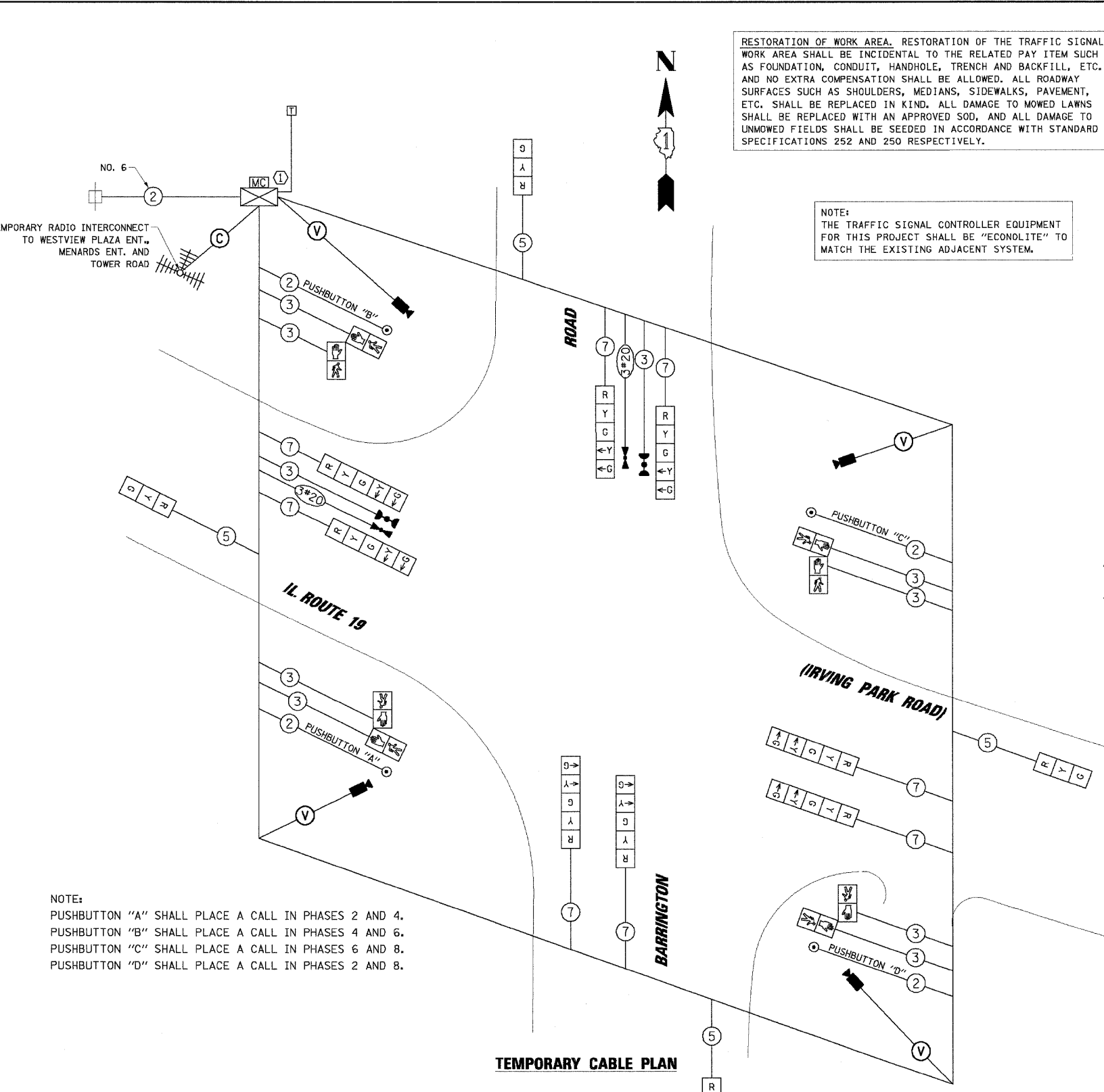
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TEMPORARY EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	← →	↑ ↓	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. OF LAMPS	WATTAGE			
		XINCAND.	LED	X % OPERATION	
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	1	150	-	1.00	150.00
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 691.20

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MARTY RUBIN
 PHONE: (847) 608-2400
 COMPANY: COMED



NOTE:
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4.
 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.

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'
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
E - M. ARM POLE		CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	6 (1.8)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
42" (1050mm)	25 (7.6)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

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 SOO, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

TEMPORARY CABLE DIAGRAM LEGEND

- R** TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- ⊠** TEMPORARY CONTROLLER CABINET
- ⊞** TEMPORARY SERVICE INSTALLATION
- ⑤** INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ▶** EMERGENCY VEHICLE LIGHT DETECTOR
- ▶•** CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- Ⓜ** 12" (300mm) PEDESTRIAN SIGNAL SECTION
- 📹** VIDEO DETECTION CAMERA
- V** VENDOR CABLE
- ⏏** TEMPORARY RADIO INTERCONNECT
- C** COAXIAL CABLE

- CONSTRUCTION NOTES:
- ① RELOCATE EXISTING MASTER CONTROLLER TO THE TEMPORARY TRAFFIC SIGNAL CABINET.
 - ② EXISTING TELEPHONE SERVICE TO BE MAINTAINED. THIS WORK IS INCIDENTAL TO THE PAY ITEM: TRAFFIC SIGNAL INSTALLATION.

FILE NAME =	USER NAME = FPAIONE	DESIGNED - ABR	REVISED -
...Traffic\TCB_198Barrington.dgn		DRAWN - FPB / FCP	REVISED -
		CHECKED - MJT	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	11

CONTRACT NO. 60G39

PROFILE SURVEYED _____
 NOTE BOOK _____
 NO. _____
 STRUCTURE NOTATION: CRFD

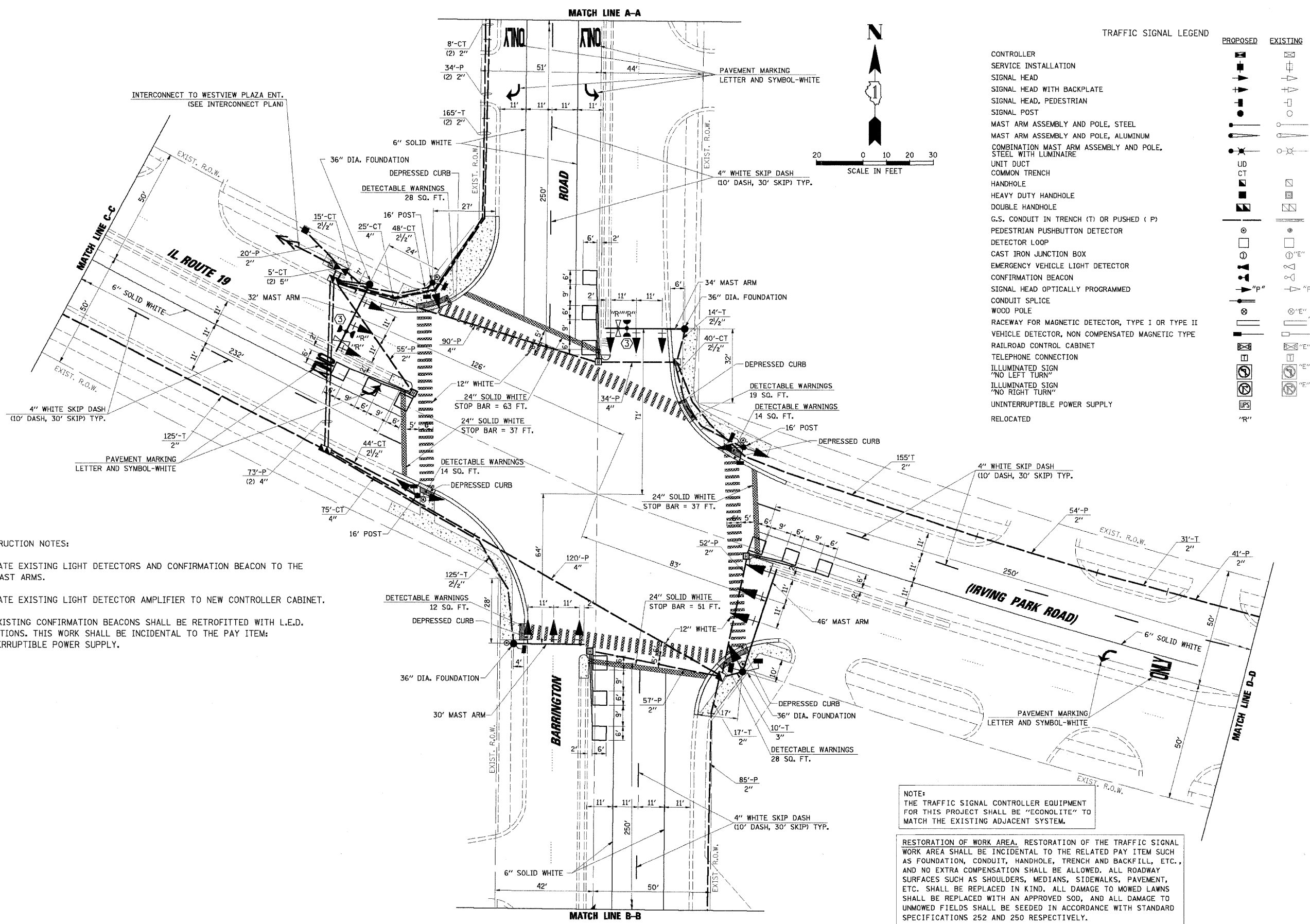
PLAN SURVEYED _____
 NOTE BOOK _____
 NO. _____
 CHECKED BY: _____
 DATE: _____

SURVEYED _____
 ALLOTTED _____
 CHECKED _____
 FILE NAME: CADD FILE NAME

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 5575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

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- 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.

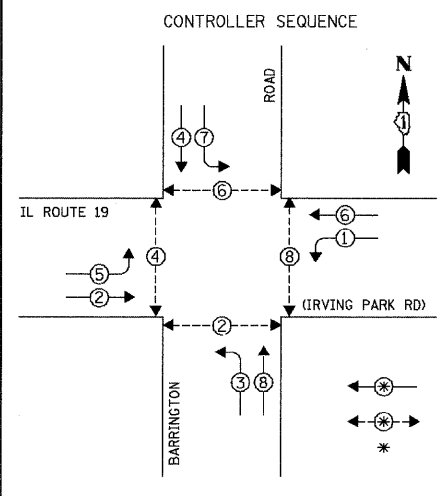
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME = ...Traffic\MO01198Barrington.dgn	USER NAME = FPAICONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 19 (IRVING PARK ROAD) AND BARRINGTON ROAD	F.A.U. RTE. 1321	SECTION 2009-034 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 12
PLOT SCALE = 20'	DRAWN - FFP / FCP	CHECKED - MJT	REVISED -			CONTRACT NO. 60G39				
PLOT DATE = 3/18/2009	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
						SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.				

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

CHRISTOPHER B. BURKE ENGINEERING LTD.
 5975 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 821-0500

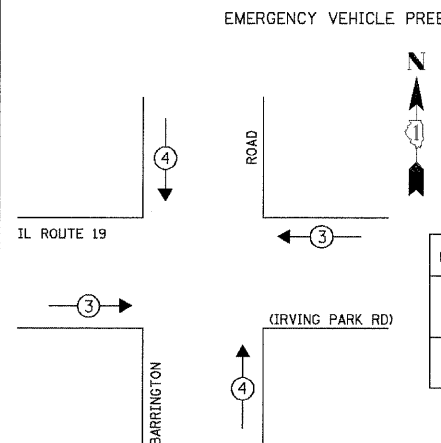
DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 CHECKED: _____
 REVISIONS: _____
 NO. _____



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	0.50	153.00
(YELLOW)	18	25	0.25	112.50
(GREEN)	18	15	0.25	67.50
ARROW	16	12	0.10	19.20
PED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	-	25	0.05	-
VIDEO SYSTEM	-	150	1.00	-

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: (847) 608-2400
 COMPANY: COMED

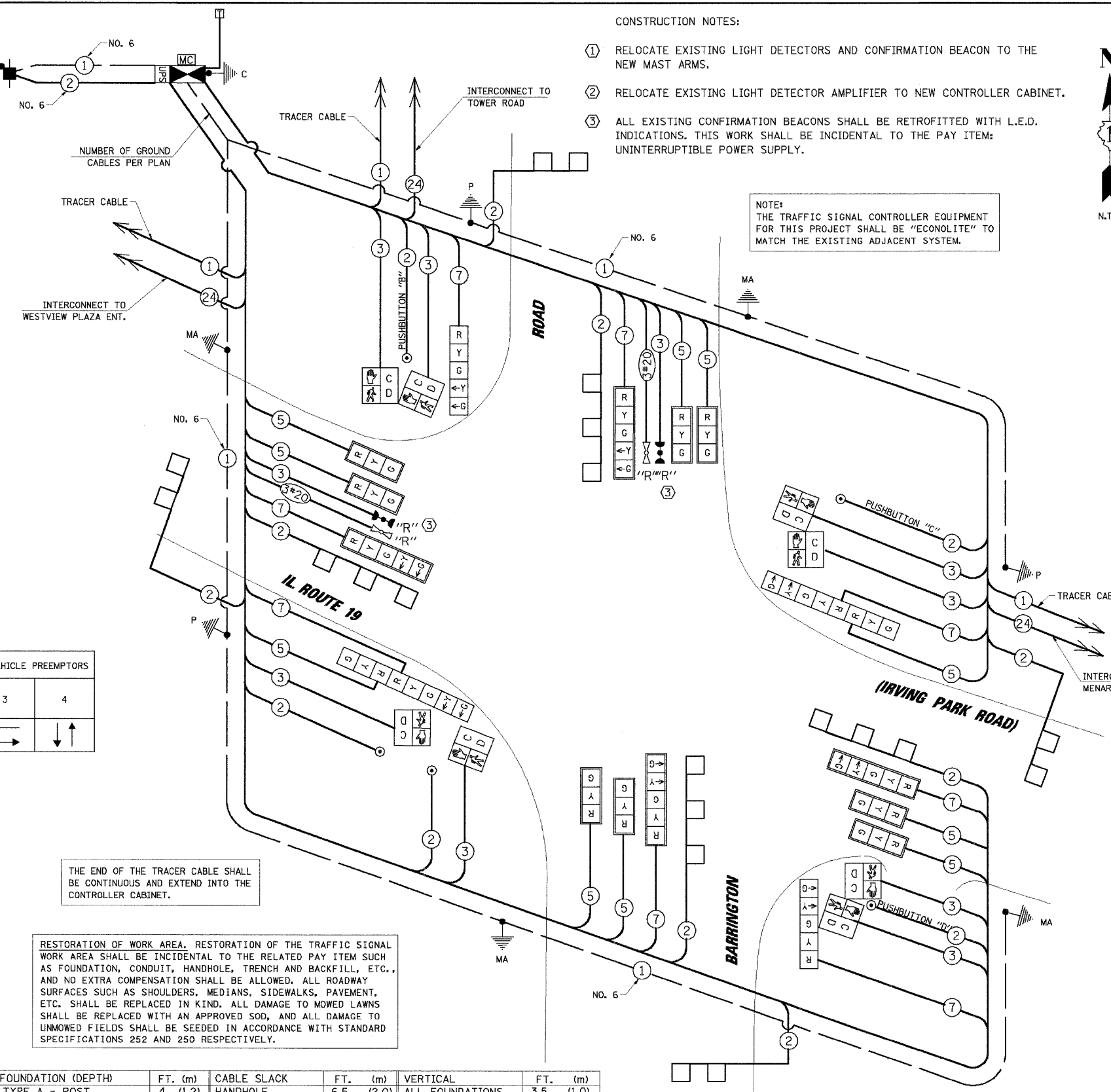
FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C - CONTROLLER W/ UPS	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-H-2" (6m-H-0.6m)
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
E - M. ARM POLE	1 (0.5)	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.
[Symbol]	[Symbol]	ALL CABLE NO. 14 EXCEPT AS INDICATED.
[Symbol]	[Symbol]	ALL LOOP DETECTOR CABLE TO BE SHIELDED.
[Symbol]	[Symbol]	GROUND CABLE IN CONDUIT
[Symbol]	[Symbol]	NO. 6 SOLID COPPER (GREEN)
[Symbol]	[Symbol]	FIBER OPTIC CABLE IN CONDUIT
[Symbol]	[Symbol]	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/STORM	FOOT	1026
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	233
CONCRETE MEDIAN SURFACE REMOVAL	FOOT	452
MEDIAN REMOVAL	FOOT	120
MEDIAN REMOVAL AND REPLACEMENT, SPECIAL	FOOT	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"	FOOT	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	1851
ELECTRIC CABLE IN CONDUIT, LEAD IN NO. 14 1" R	FOOT	2758
ELECTRIC CABLE IN CONDUIT, SERVICE NO. 8 SC	FOOT	59
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 PUSH-BUTTON	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	SO 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

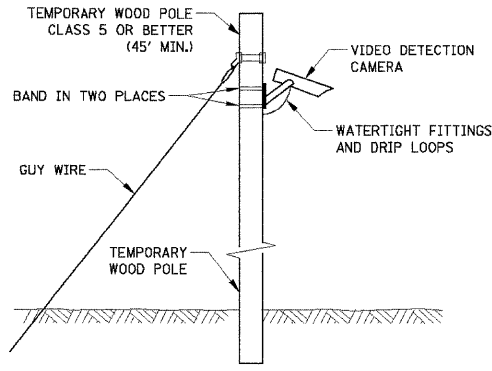
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	14
CONTRACT NO. 60G39				

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

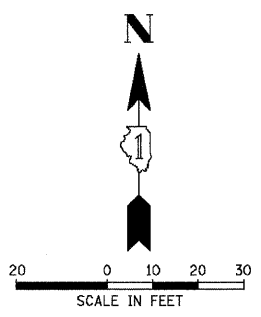
SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

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

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 SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



TEMPORARY VIDEO DETECTION MOUNTING DETAIL (NOT TO SCALE)

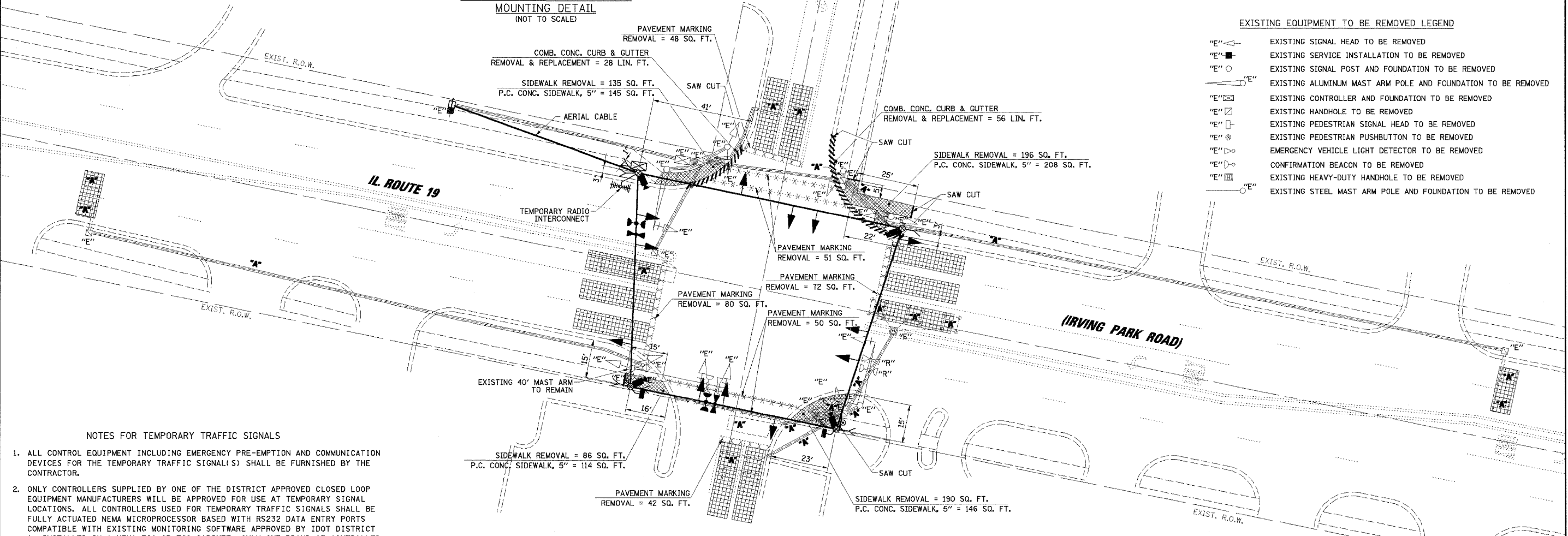


- TEMPORARY TRAFFIC SIGNAL LEGEND**
- ▲ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
 - ▲ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
 - ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
 - DOWN GUY
 - ⊠ TEMPORARY CONTROLLER CABINET
 - TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
 - ⊠ TEMPORARY SERVICE INSTALLATION
 - ⊠ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
 - ⊠ TEMPORARY RADIO INTERCONNECT
 - ⊠ MACHINE VISION PROCESSOR
 - ⊗ PEDESTRIAN PUSHBUTTON DETECTOR
 - ⊠ EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON
 - VEHICLE DETECTOR, INDUCTION LOOP
 - UD UNIT DUCT
 - CT COMMON TRENCH
 - G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)
 - ⊠ HANDHOLE
 - ⊠ HEAVY DUTY HANDHOLE
 - "R" RELOCATE
 - "A" ABANDON
 - ⊠ DETECTION ZONE

- EXISTING EQUIPMENT TO BE REMOVED LEGEND**
- "E" ▲ EXISTING SIGNAL HEAD TO BE REMOVED
 - "E" ⊠ EXISTING SERVICE INSTALLATION TO BE REMOVED
 - "E" ○ EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
 - "E" — EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED
 - "E" ⊠ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
 - "E" ⊠ EXISTING HANDHOLE TO BE REMOVED
 - "E" ⊠ EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
 - "E" ⊗ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
 - "E" ⊠ EXISTING EMERGENCY VEHICLE LIGHT DETECTOR TO BE REMOVED
 - "E" ⊠ EXISTING CONFIRMATION BEACON TO BE REMOVED
 - "E" ⊠ EXISTING HEAVY-DUTY HANDHOLE TO BE REMOVED
 - "E" — EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____ CHECKED: _____
 PLAN: _____ NO. _____
 PROFILE: _____ SURVEYED: _____ PLOTTED: _____ CHECKED: _____
 NOTE BOOK: _____ NO. _____
 STRUCTURE: _____ NOTATIONS: _____

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



NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

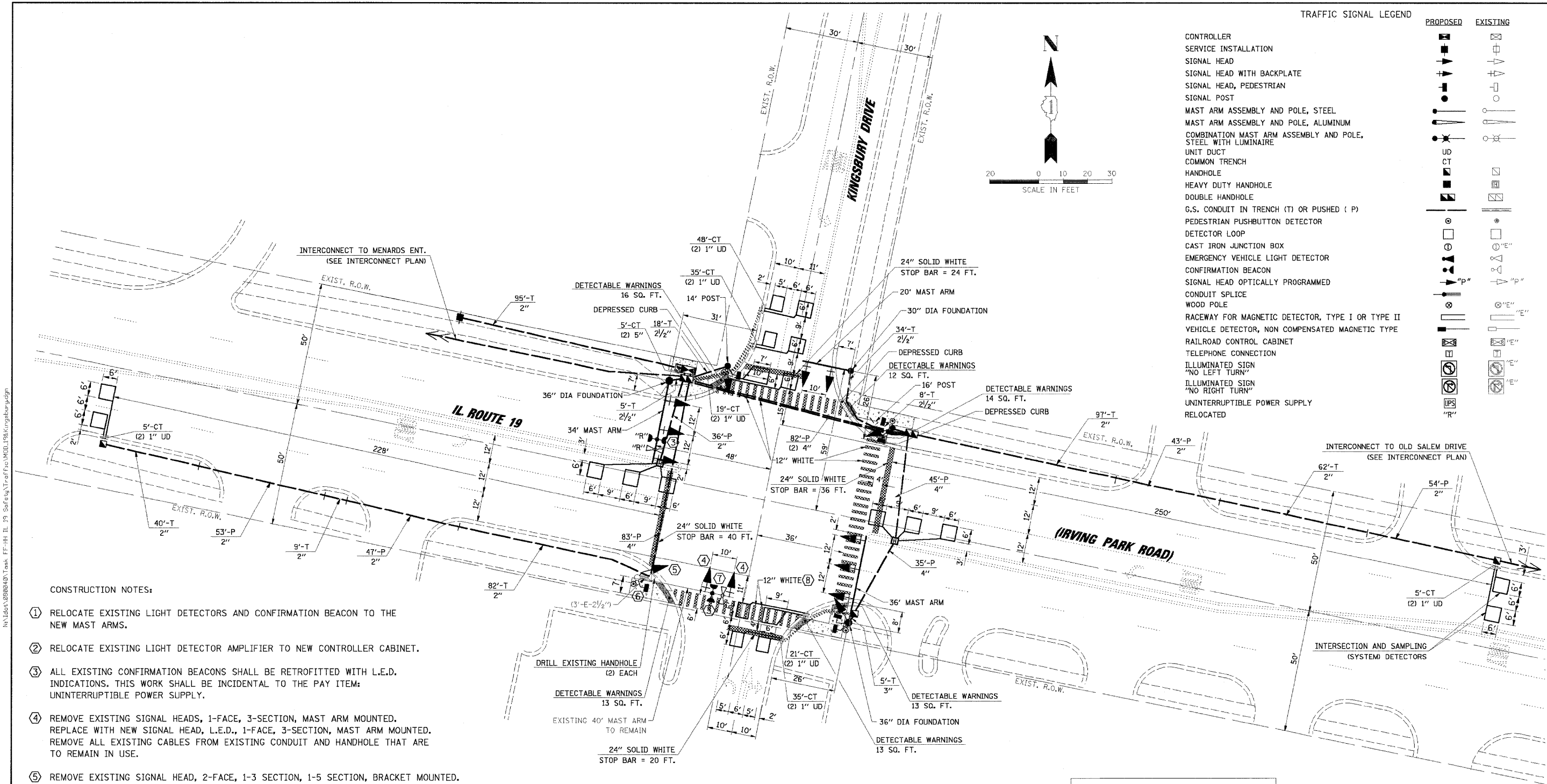
- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- 5 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 2-3 SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 2 EACH ALUMINUM MAST ARM AND POLE
- 4 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 2 EACH PEDESTRIAN PUSH-BUTTON
- 4 EACH TRAFFIC SIGNAL BACKPLATE

CONSTRUCTION NOTES:

- ① RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACON TO THE NEW MAST ARMS.
- ② RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

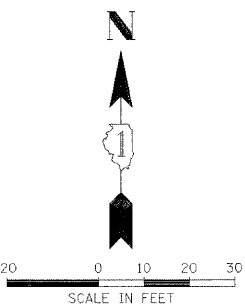
FILE NAME = ...Traffic\TMP_19\Kingsbury.dgn	USER NAME = FPAIONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT IL ROUTE 19 (IRVING PARK ROAD) AND KINGSBURY DRIVE	F.A.U. RTE. 1321	SECTION 2009-034 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 15
PLOT SCALE = 20'	DRAWN - FPB / FCP	REVISED -	SCALE: 1" = 20'			SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT	CONTRACT NO. 60G39		
PLOT DATE = 3/18/2009	CHECKED - MJT	REVISED -								
	DATE -	REVISED -								

FILE NAME: ...Traffic\M0019&Kingsbury.dgn
 USER NAME: FPACIONE
 DESIGNED: ABR
 REVISED: -
 DRAWN: FPB / FCP
 CHECKED: MJT
 DATE: 3/18/2009
 PLOT SCALE: 20'
 PLOT DATE: 3/18/2009



TRAFFIC SIGNAL LEGEND

PROPOSED	EXISTING



- 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.
 - REMOVE EXISTING SIGNAL HEADS, 1-FACE, 3-SECTION, MAST ARM MOUNTED. REPLACE WITH NEW SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED. REMOVE ALL EXISTING CABLES FROM EXISTING CONDUIT AND HANDHOLE THAT ARE TO REMAIN IN USE.
 - REMOVE EXISTING SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED. REPLACE WITH NEW SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED. REMOVE ALL EXISTING CABLES FROM EXISTING CONDUIT AND HANDHOLE THAT ARE TO REMAIN IN USE.
 - REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, 1-FACE AND PEDESTRIAN PUSHBUTTON. REPLACE WITH NEW PEDESTRIAN SIGNAL HEAD, L.E.D. WITH COUNTDOWN TIMER AND NEW PEDESTRIAN PUSHBUTTON. REMOVE ALL EXISTING CABLES FROM EXISTING CONDUIT AND HANDHOLE THAT ARE TO REMAIN IN USE.
 - REMOVE EXISTING CABLES, 3/C AND 3*20, TWISTED SHIELDED FROM EXISTING CONDUIT AND HANDHOLE THAT ARE TO REMAIN IN USE.
 - USE POLYUREA PAVEMENT MARKING ON THE DRIVEWAY FOR CROSSWALK.
 - PAINT NEW MAST ARMS AND TRAFFIC SIGNAL POSTS TO MATCH EXISTING MAST ARM TO REMAIN.

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

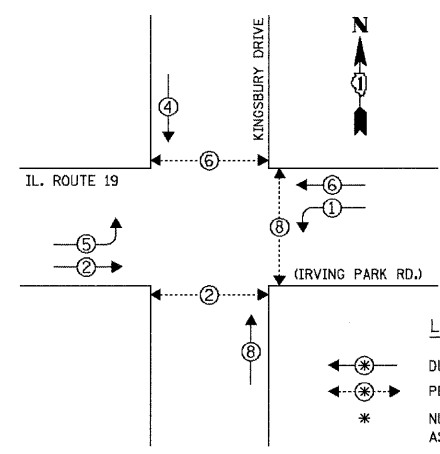
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME = ...Traffic\M0019&Kingsbury.dgn	USER NAME = FPACIONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 19 (IRVING PARK ROAD) AND KINGSBURY DRIVE	F.A.U. RTE. 1321	SECTION 2009-034 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 17	
						SCALE: 1" = 20'	SHEET NO. OF SHEETS STA. TO STA.	CONTRACT NO. 60639		ILLINOIS FED. AID PROJECT	

DATE: _____ BY: _____
 PROFILE SURVEYED _____
 NOTE BOOK _____
 I.D.O.T. FILE NO. _____
 ILL. ROAD DIST. NO. _____
 COUNTY _____
 PROJECT NO. _____
 DATE: _____ BY: _____
 PLAN _____
 NOTE BOOK _____
 I.D.O.T. FILE NO. _____
 ILL. ROAD DIST. NO. _____
 COUNTY _____
 PROJECT NO. _____

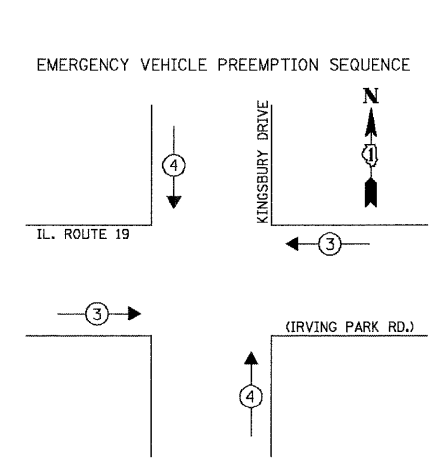
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 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

CONTROLLER SEQUENCE



LEGEND
 ← * → DUAL ENTRY PHASE
 ← * → PEDESTRIAN PHASE
 * NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



PROPOSED EMERGENCY VEHICLE PREEMPTORS

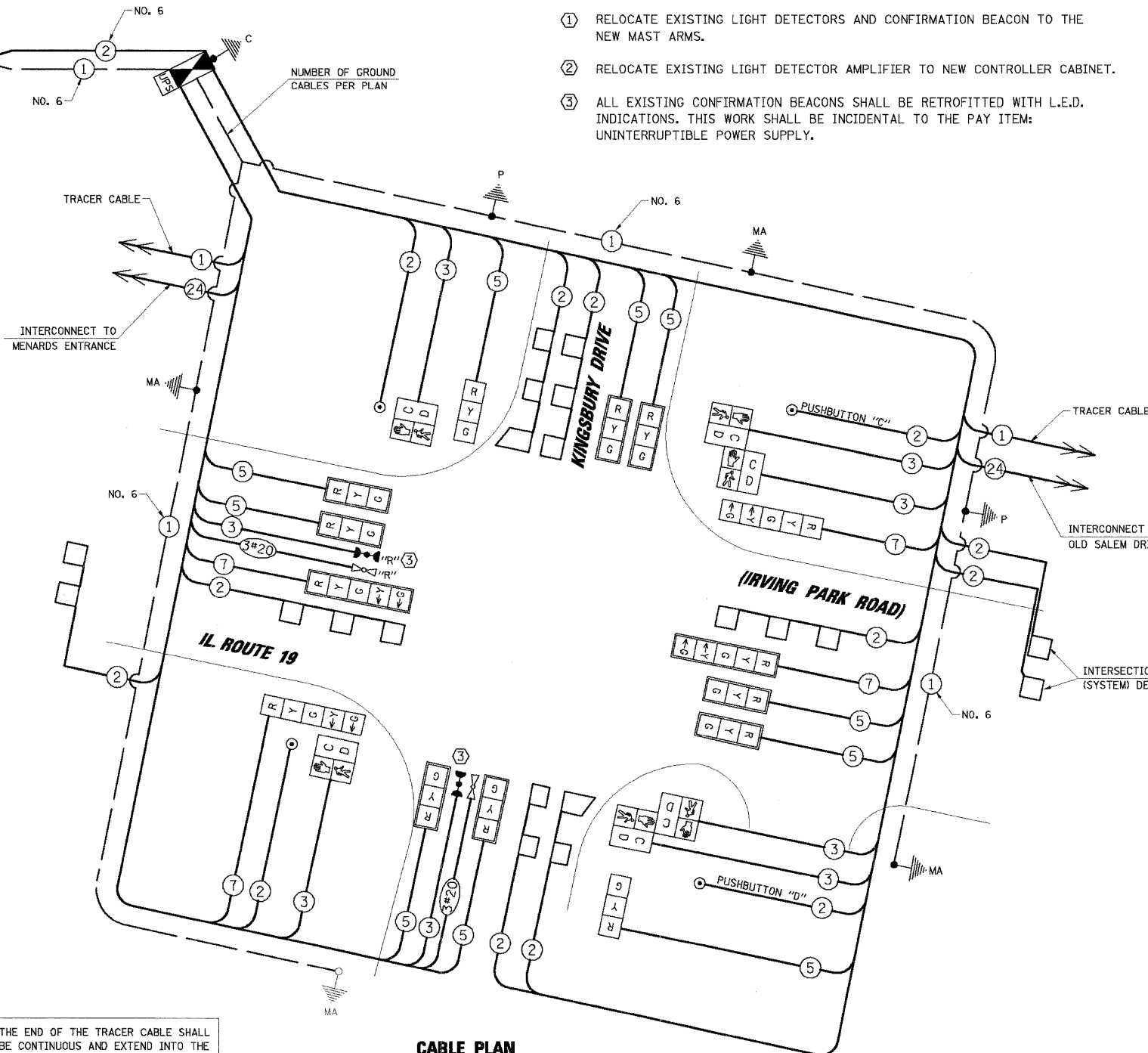
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

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

TYPE	NO. OF LAMPS	WATTAGE X INCAND. LED x % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	17	0.50
(YELLOW)	14	25	0.25
(GREEN)	14	15	0.25
ARROW	8	12	0.10
PED. SIGNAL	6	25	1.00
CONTROLLER	1	100	1.00
ILLUM. SIGN	-	25	0.05
VIDEO SYSTEM	-	150	1.00
FLASHER	-	-	0.50
ENERGY COSTS TO:		TOTAL =	518.60

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MARTY RUBIN
 PHONE: (847) 608-2400
 COMPANY: COMED

FILE NAME =	USER NAME = FPACIONE	DESIGNED - ABR	REVISED -
...Traffic\CAB.198Kingsbury.dgn		DRAWN - FPB / FCP	REVISED -
		CHECKED - MJT	REVISED -
		DATE -	REVISED -



CABLE PLAN

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

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

NOTE:

PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8.

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"=
D - CONTROLLER	4 (1.2)	SIGNAL POST	2 (1.0)		(6m+L-0.6m)=
E - M. ARM POLE		CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	6 (1.8)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
42" (1050mm)	25 (7.6)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

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 SEEDED 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.



CABLE PLAN LEGEND

- | | |
|--|---|
| | 8" (200mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) TRAFFIC SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION |
| | 12" (300mm) PEDESTRIAN SIGNAL SECTION WITH COUNTDOWN TIMER |
| | CONTROLLER CABINET |
| | SERVICE INSTALLATION |
| | TELEPHONE INSTALLATION |
| | 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 2-MMI2F SMI2F |
| | "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 |

SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	613
DETECTABLE WARNINGS	SQ FT	81
SIDEWALK REPAIR	SQ FT	87
COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	84
SIGN PANEL - TYPE 1	SQ FT	16.5
SIGN PANEL - TYPE 2	SQ FT	15
THERMOPLASTIC PAVEMENT MARKING - LINE 1/2"	FOOT	252
THERMOPLASTIC PAVEMENT MARKING - LINE 2/4"	FOOT	120
POLYUREA PAVEMENT MARKING TYPE 1 - LINE 1/2"	FOOT	114
PAVEMENT MARKING REMOVAL	SQ FT	342
CONDUIT IN TRENCH 2" DIA. GALVANIZED STEEL	FOOT	365
CONDUIT IN TRENCH 2 1/2" DIA. GALVANIZED STEEL	FOOT	65
CONDUIT IN TRENCH 3" DIA. GALVANIZED STEEL	FOOT	5
CONDUIT IN TRENCH 4" DIA. GALVANIZED STEEL	FOOT	0
CONDUIT PUSHED, 2" DIA. GALVANIZED STEEL	FOOT	233
CONDUIT PUSHED, 4" DIA. GALVANIZED STEEL	FOOT	327
HANDHOLE	EACH	3
HEAVY DUTY HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	579
FULL ACTUATED CONTROLLER AND TYPE 'N' CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 20	FOOT	127
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 30	FOOT	1206
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 50	FOOT	1631
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 70	FOOT	822
ELECTRIC CABLE IN CONDUIT, LEAD-IN NO. 14 1 PR	FOOT	1777
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	114
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 18 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 20 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	15
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30
DRILL EXISTING HANDHOLE	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-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	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE 1	FOOT	684
PEDESTRIAN PUSHBUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL SYSTEM DETECTOR UNIT	EACH	1
RELOCATE EXISTING TRAFFIC SIGNAL SYSTEM PHASING UNIT	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
TEMPORARY TRAFFIC SIGNAL TOWER	EACH	1
PARTY EXISTING POLE COMPLETE	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	FOOT	674
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	268
PARTY NEW MAST ARM AND POLE, UNDER 40 FEET	EACH	3
PARTY NEW TRAFFIC SIGNAL POST	EACH	2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

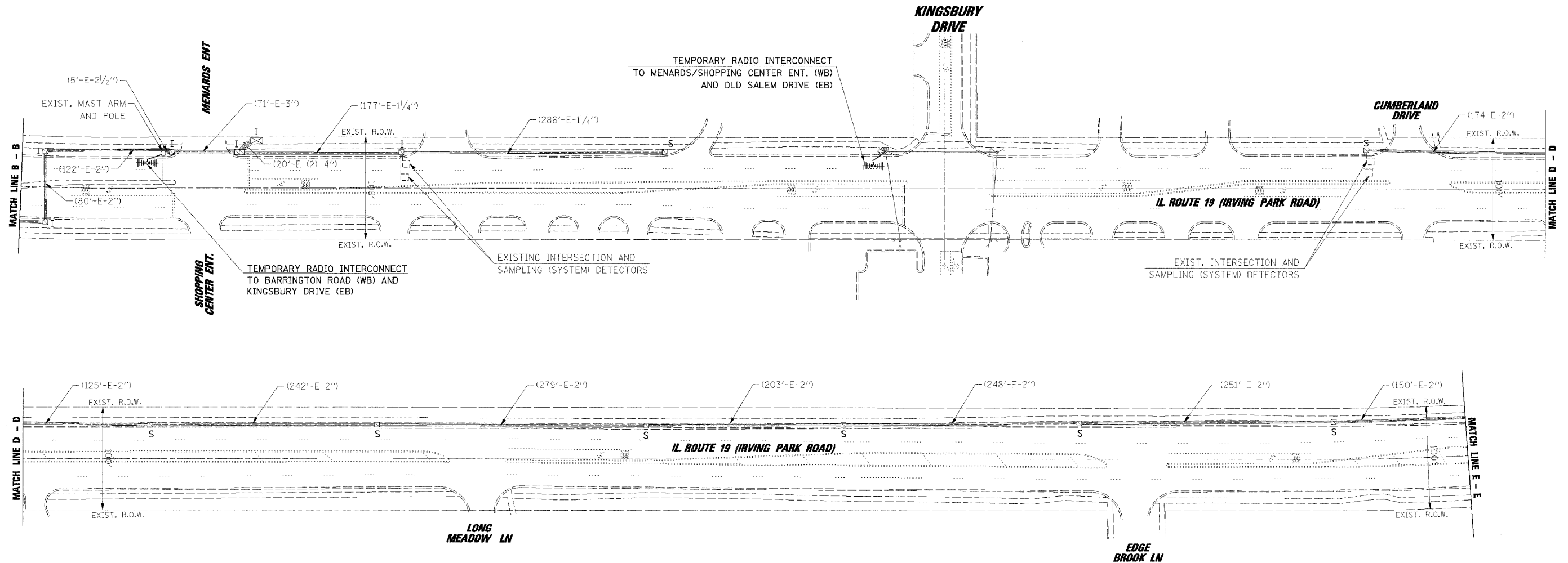
SCALE: 1" = 20'
 SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	18
CONTRACT NO. 60G39				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE: _____ BY: _____
 SURVEYED: _____ CHECKED: _____
 PLOTTED: _____ R.L. OF MAY CHECKED: _____
 NOTE BOOK NO. _____ CAD FILE NAME: _____
 PROFILE: _____ DATE: _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATIONS: CHFD

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

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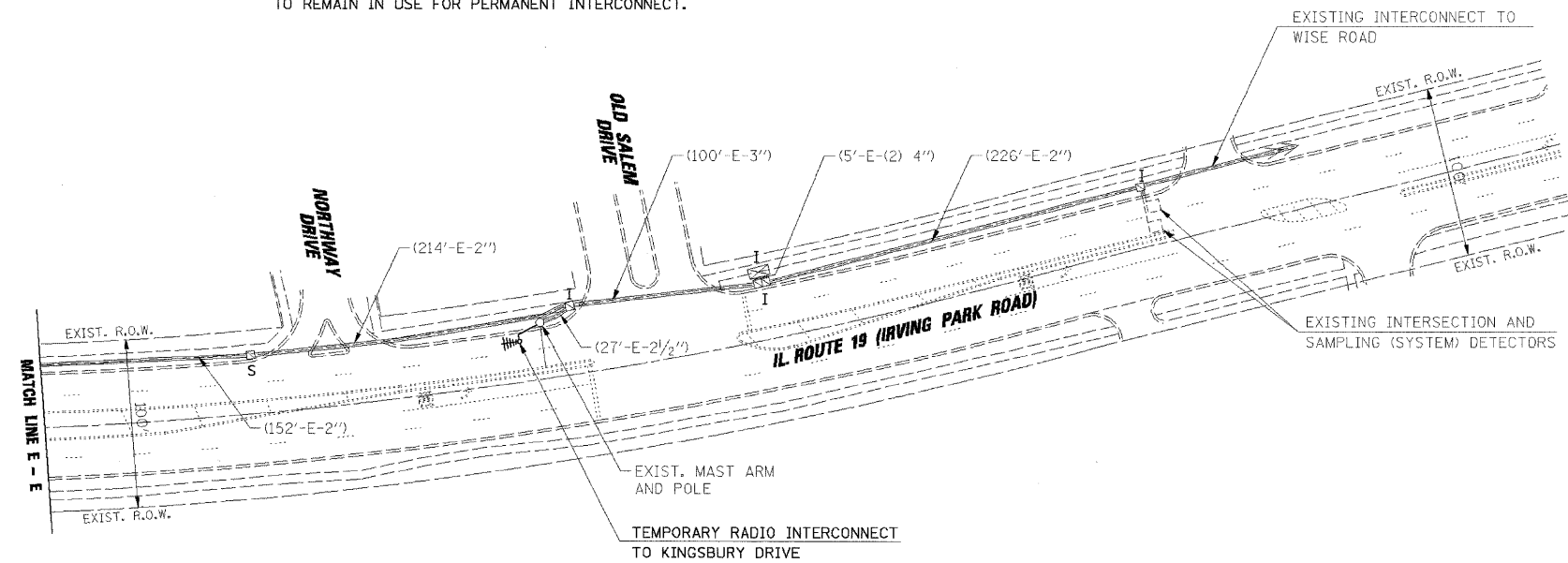
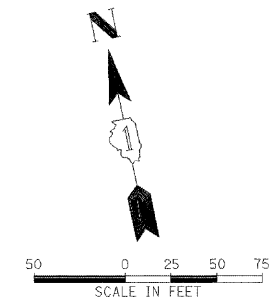
CONSTRUCTION NOTES:

- EXISTING INTERCONNECT CONDUIT AND SYSTEM HANDHOLES SHOWN ARE TO BE UTILIZED FOR PERMANENT INTERCONNECT.
- REMOVE EXISTING FIBER AND TRACER CABLES FROM EXISTING CONDUITS, HANDHOLES, DOUBLE HANDHOLE AND CONTROLLER CABINET THAT ARE TO REMAIN IN USE FOR PERMANENT INTERCONNECT.

TEMPORARY INTERCONNECT PLAN LEGEND

CONTROLLER	
SERVICE INSTALLATION	
EXISTING HANDHOLE	
EXISTING CONDUIT	
AERIAL INTERCONNECT CABLE - 3 PAIR #18	
WOOD POLE CLASS 4 30 FT. MINIMUM	
SYSTEM	
EXISTING INTERSECTION	
TEMPORARY RADIO INTERCONNECT	

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.



FILE NAME =	USER NAME = FPACONE	DESIGNED - ABR	REVISED -
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		CHECKED - MJT	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

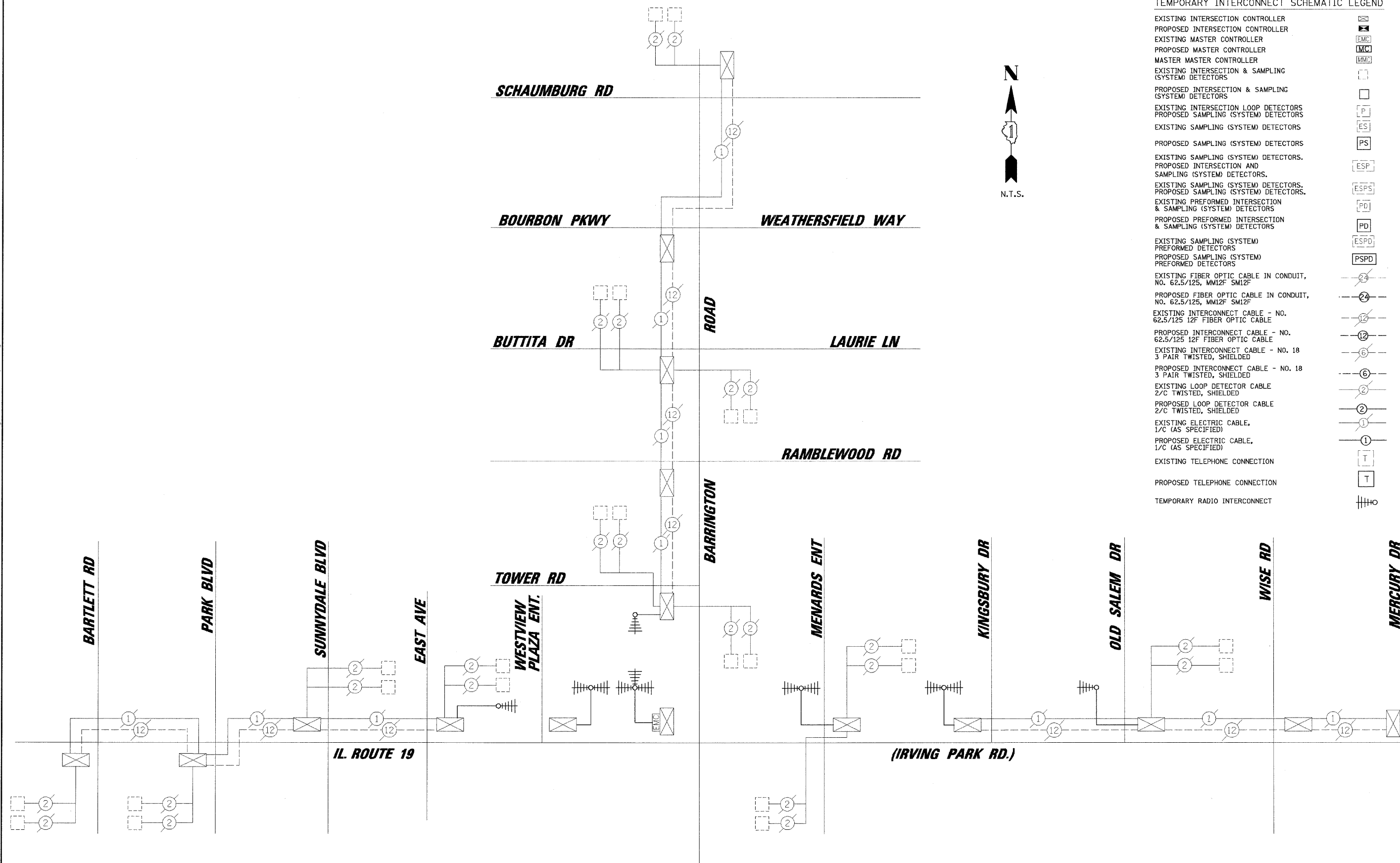
TEMPORARY INTERCONNECT PLAN
IL ROUTE 19 (IRVING PARK ROAD) FROM EAST AVENUE TO OLD SALEM DRIVE
BARRINGTON ROAD FROM IL ROUTE 19 (IRVING PARK ROAD) TO TOWER ROAD

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	20
CONTRACT NO. 60639				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PROFILE	DATE	BY	DATE	BY	DATE
NOTE BOOK	DATE	BY	DATE	BY	DATE
NO.					
SURVEYED GRADES CHECKED E.M. NOTED STRUCTURE NOTATIONS SHAD					
SURVEYED ALIGNED REVISIONS CHECKED P.L. OF WAY CHECKED 200 FILE NAME					
PLAN NOTE BOOK NO.					
CHRISTOPHER B. BURKE ENGINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 825-0300					

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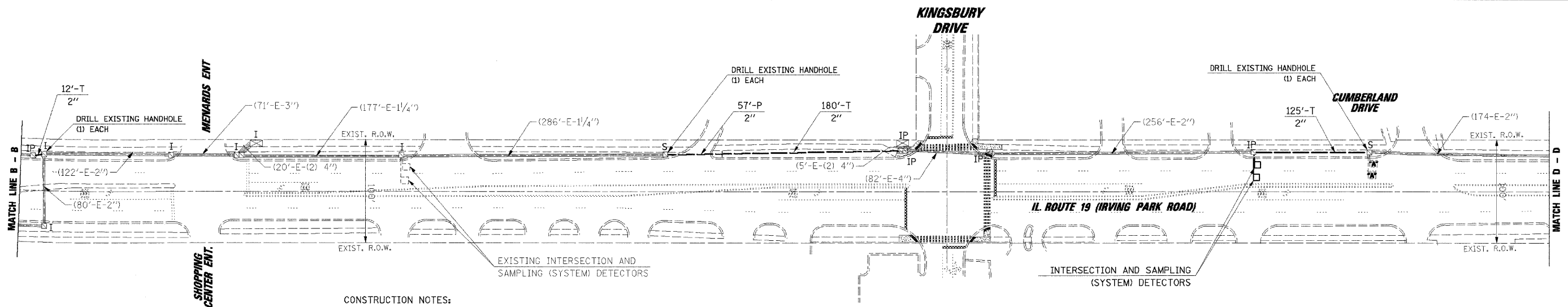


TEMPORARY INTERCONNECT SCHEMATIC LEGEND

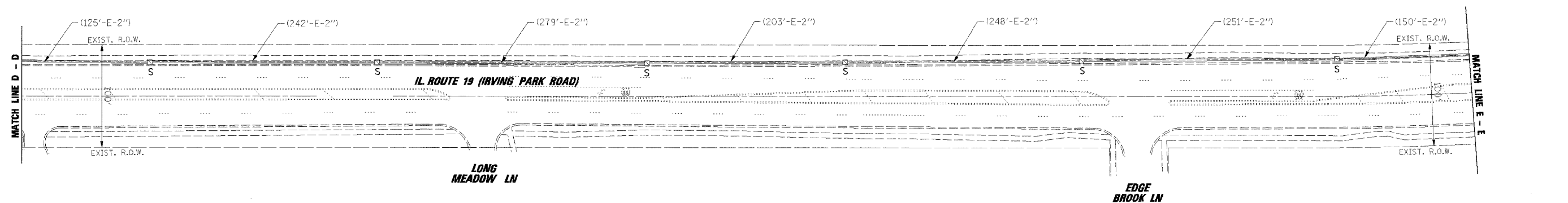
- EXISTING INTERSECTION CONTROLLER
- PROPOSED INTERSECTION CONTROLLER
- EXISTING MASTER CONTROLLER
- PROPOSED MASTER CONTROLLER
- MASTER MASTER CONTROLLER
- EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- EXISTING INTERSECTION LOOP DETECTORS
- PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS
- PROPOSED SAMPLING (SYSTEM) DETECTORS
- EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS,
- EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS,
- EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
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- PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)
- PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)
- EXISTING TELEPHONE CONNECTION
- PROPOSED TELEPHONE CONNECTION
- TEMPORARY RADIO INTERCONNECT

FILE NAME = ...TranFac\SCH_Tmp-IL19.dgn	USER NAME = FPACIONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT SCHEMATIC IL ROUTE 19 (IRVING PARK RD.) FROM BARTLETT ROAD TO MERCURY DRIVE BARRINGTON ROAD FROM IL ROUTE 19 (IRVING PARK RD.) TO SCHAUMBURG ROAD	F.A.U. RTE. 1321	SECTION 2009-034 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 21	
PLOT SCALE = 20'	CHECKED - MJT	REVISIONS	REVISIONS			CONTRACT NO. 60639					
PLOT DATE = 3/18/2009	DATE -	REVISIONS	REVISIONS			SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

PROFILE SURVEYED BY DATE
 NOTE BOOK NO. PLOTTED BY DATE
 STRUCTURE NOTATION'S CHKD
 PLAN SURVEYED BY DATE
 NOTE BOOK NO. PLOTTED BY DATE
 ROAD FILE NAME
 CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 821-0500
 C.B. ENGINEERING

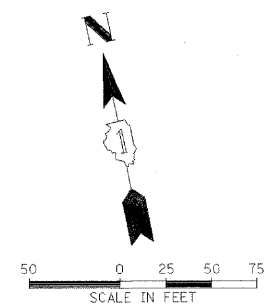
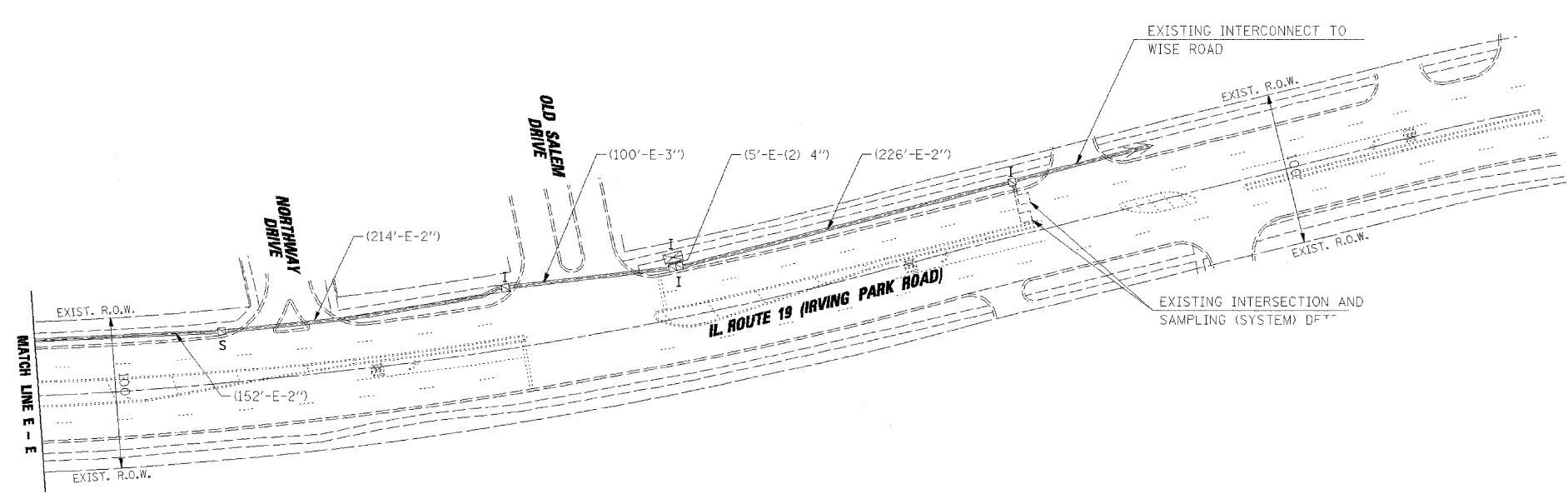


CONSTRUCTION NOTES:
 ① ADD ADDITIONAL 200 FEET OF FIBER AND TRACER CABLES BETWEEN MENARDS ENTRANCE AND KINGSBURY DRIVE FOR FUTURE USE. COIL AND STORE CABLES ON HANDHOLES WHICH ARE TO REMAIN.



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER	☒	☒
HANDHOLE	■	■
DOUBLE HANDHOLE	▣	▣
HEAVY-DUTY HANDHOLE	▣	▣
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	—	—
DETECTOR LOOP	□	□
SYSTEM	S	S
INTERSECTION	IP	I
UNIT DUCT	UD	UD
COMMON TRENCH	CT	CT



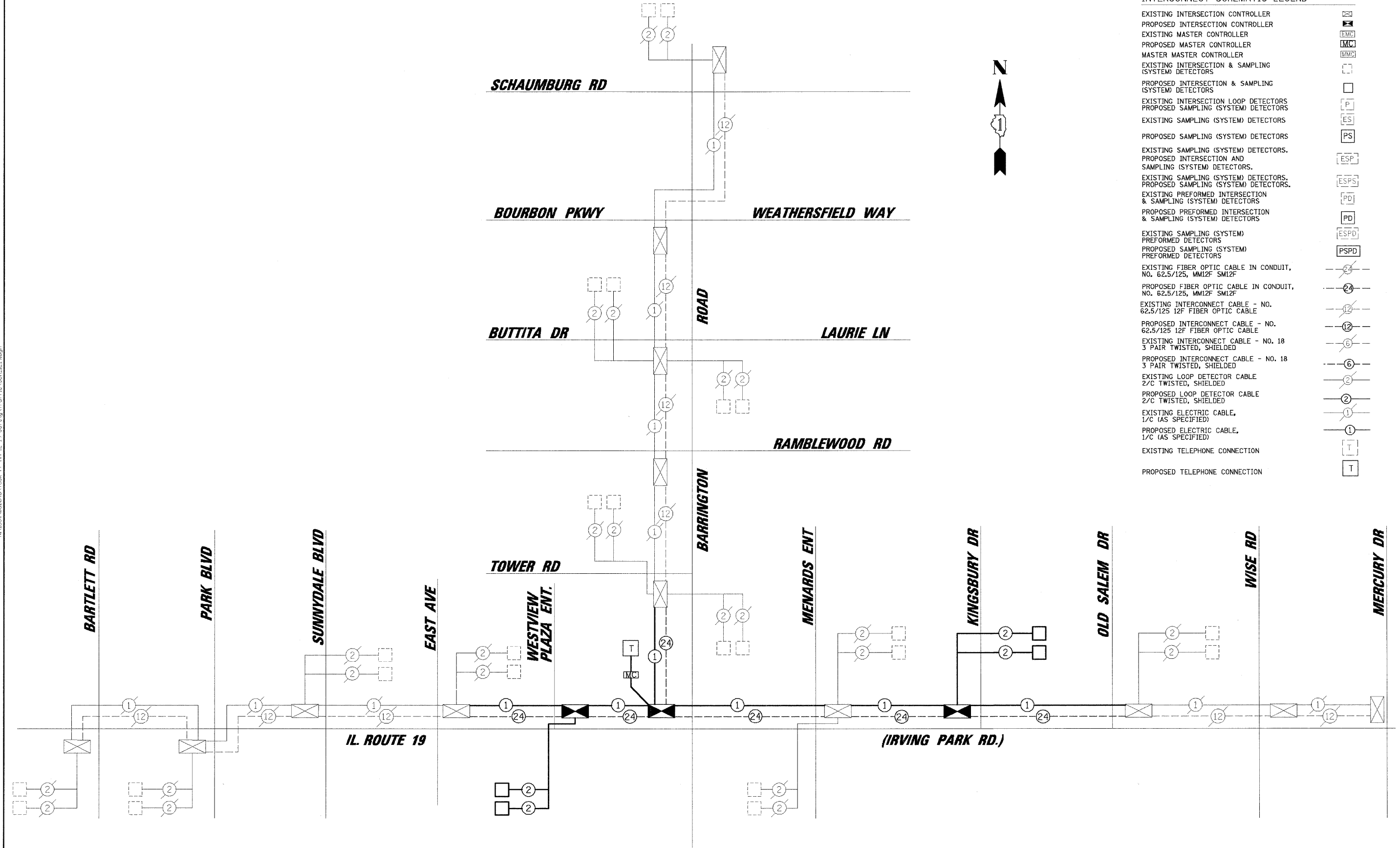
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FILE NAME = ...Traffic\INT-02.11.19.dgn	USER NAME = FPAIONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN IL ROUTE 19 (IRVING PARK ROAD) FROM EAST AVENUE TO OLD SALEM DRIVE BARRINGTON ROAD FROM (IL ROUTE 19 (IRVING PARK ROAD)) TO TOWER ROAD		F.A.U. R.T.E. 1321	SECTION 2009-034 T5	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 23
		DRAWN - FPB / FCP	REVISED -		SCALE: 1" = 50'	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60G39	
		CHECKED - MUT	REVISED -								
		DATE -	REVISED -								

PROFILE	REVIEWED	DATE
	BY	
NOTE BOOK	NOTED	
	NO.	
PLAN	REVIEWED	DATE
	BY	
NOTE BOOK	NOTED	
	NO.	

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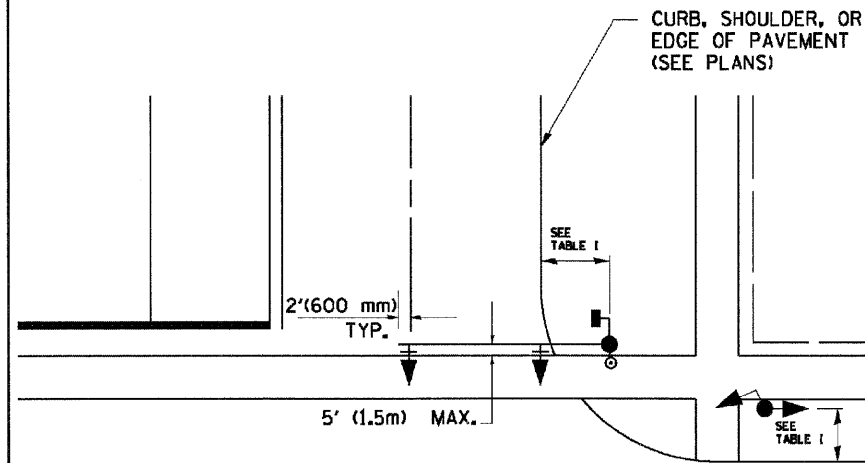
- INTERCONNECT SCHEMATIC LEGEND**
- EXISTING INTERSECTION CONTROLLER
 - PROPOSED INTERSECTION CONTROLLER
 - EXISTING MASTER CONTROLLER
 - PROPOSED MASTER CONTROLLER
 - MASTER MASTER CONTROLLER
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 - PROPOSED SAMPLING (SYSTEM) DETECTORS
 - EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.
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 - PROPOSED TELEPHONE CONNECTION



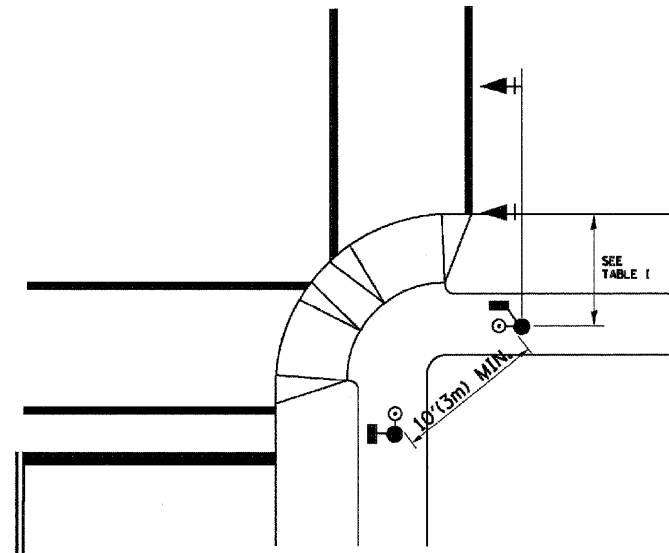
FILE NAME = ...Tref\Tref\SCH_IL19.dgn	USER NAME = FPAICONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT SCHEMATIC IL ROUTE 19 (IRVING PARK RD.) FROM BARTLETT ROAD TO MERCURY DRIVE BARRINGTON ROAD FROM IL ROUTE 19 (IRVING PARK RD.) TO SCHAUMBURG ROAD	F.A.U. RTE. 1321	SECTION 2009-034 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 24
	PLOT SCALE = 20'	CHECKED - MJT	REVISED -			SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 3/18/2009	DATE -	REVISED -	REVISED -							

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.
 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.
 PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK.
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

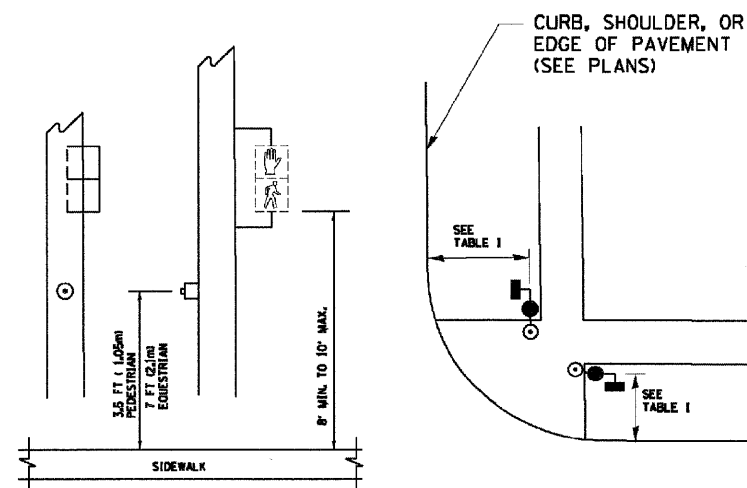
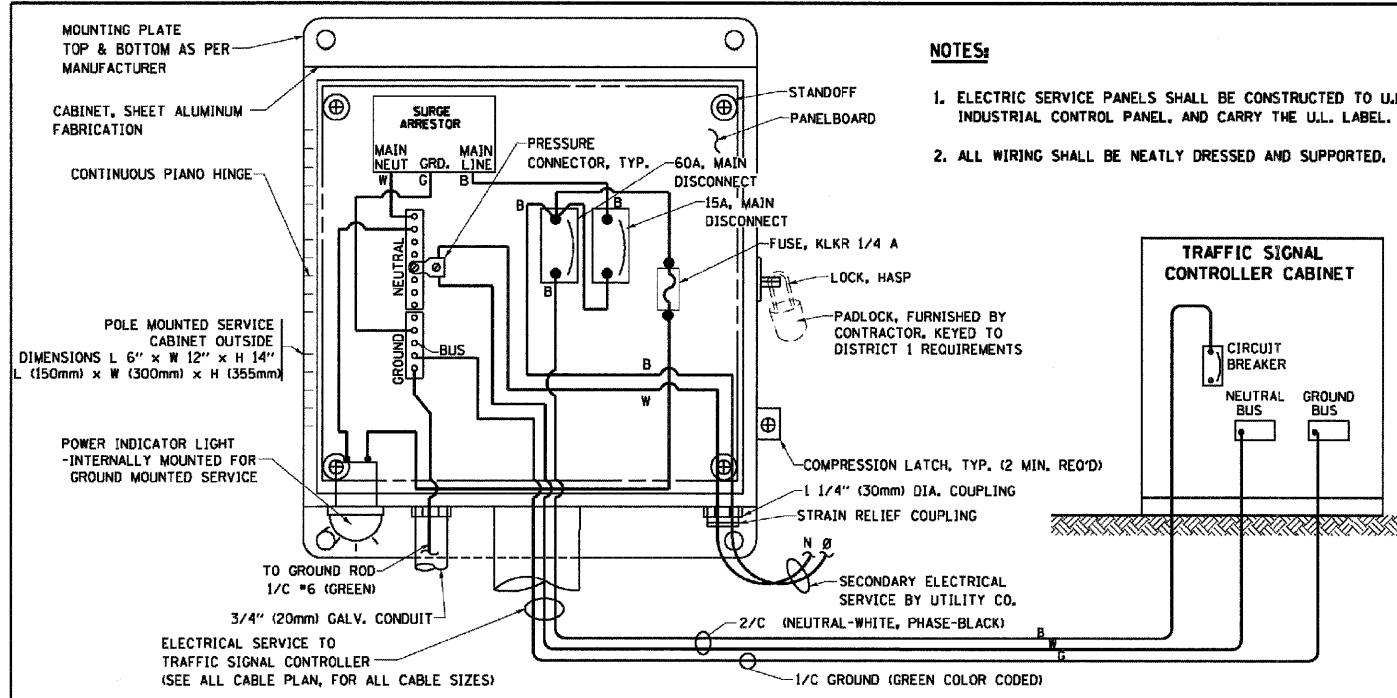
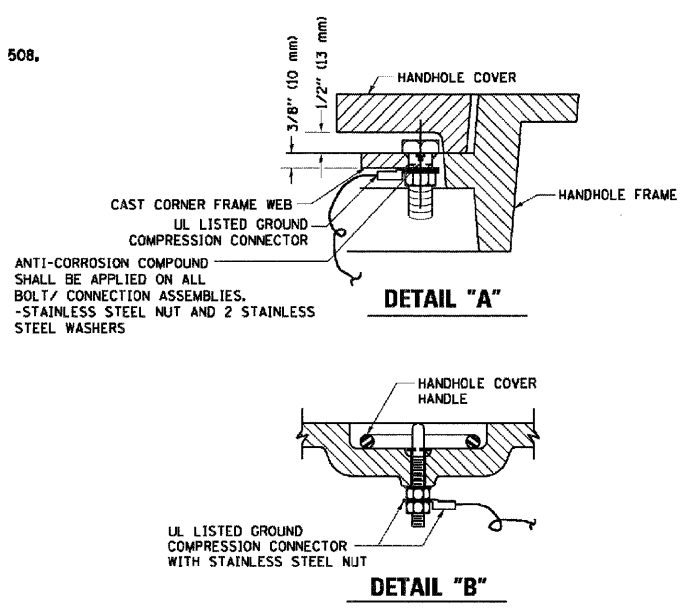
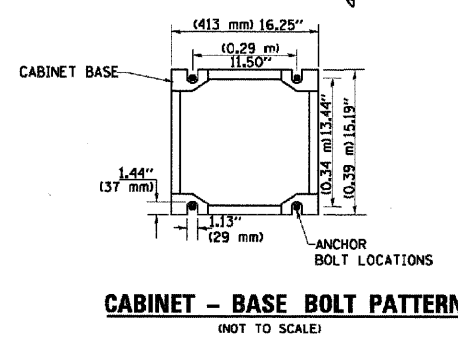
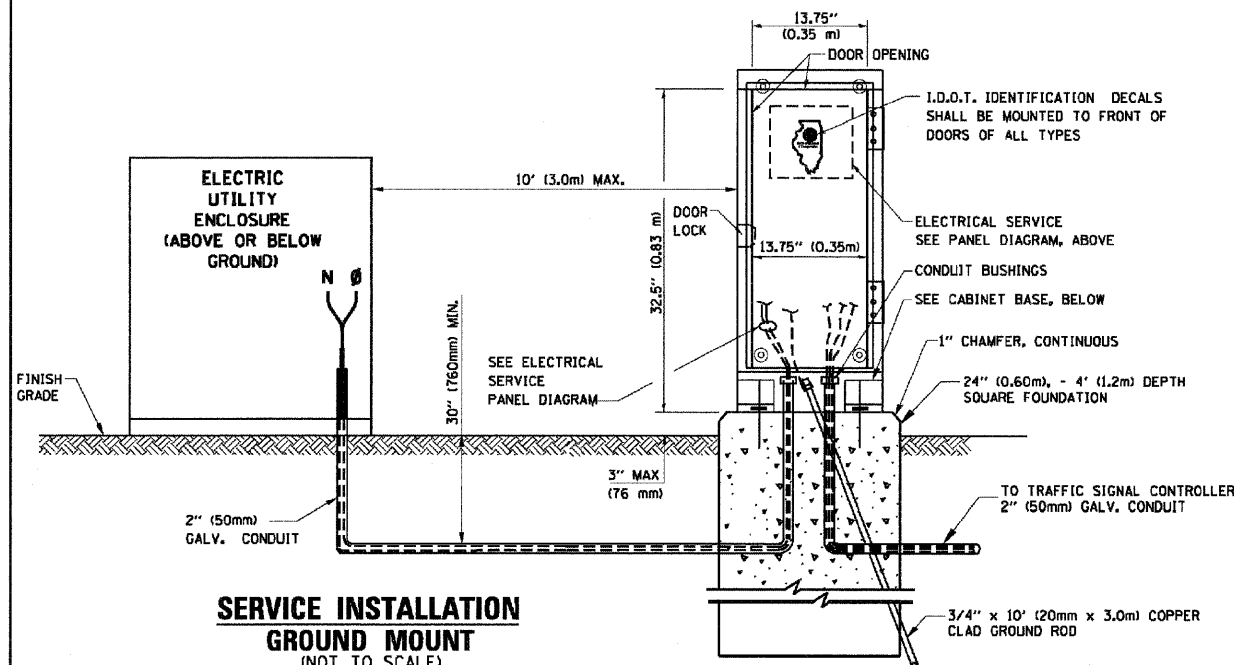


TABLE I

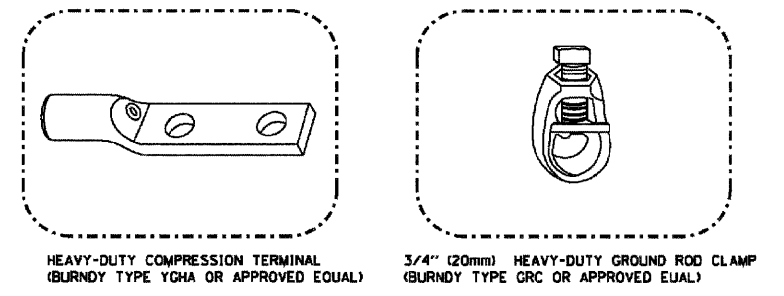
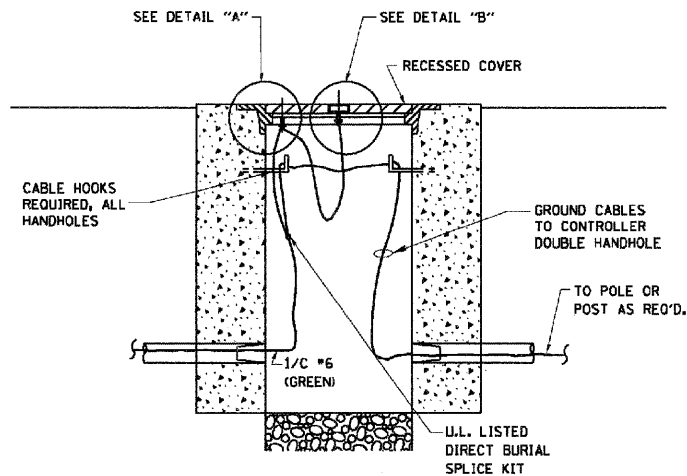
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1



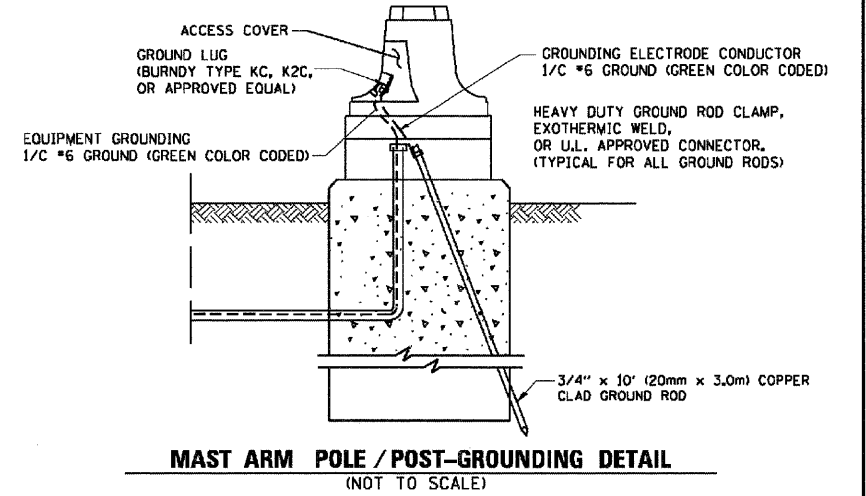
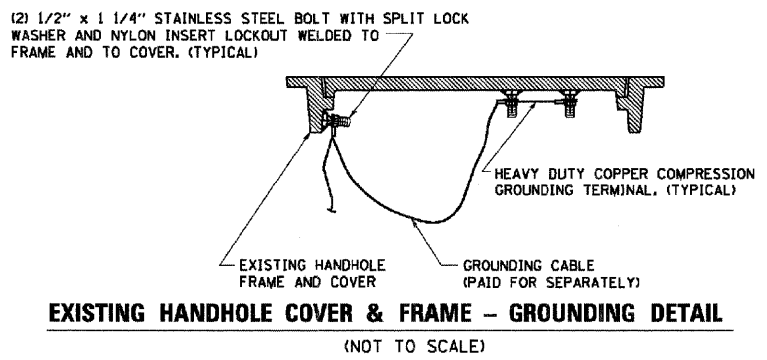
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



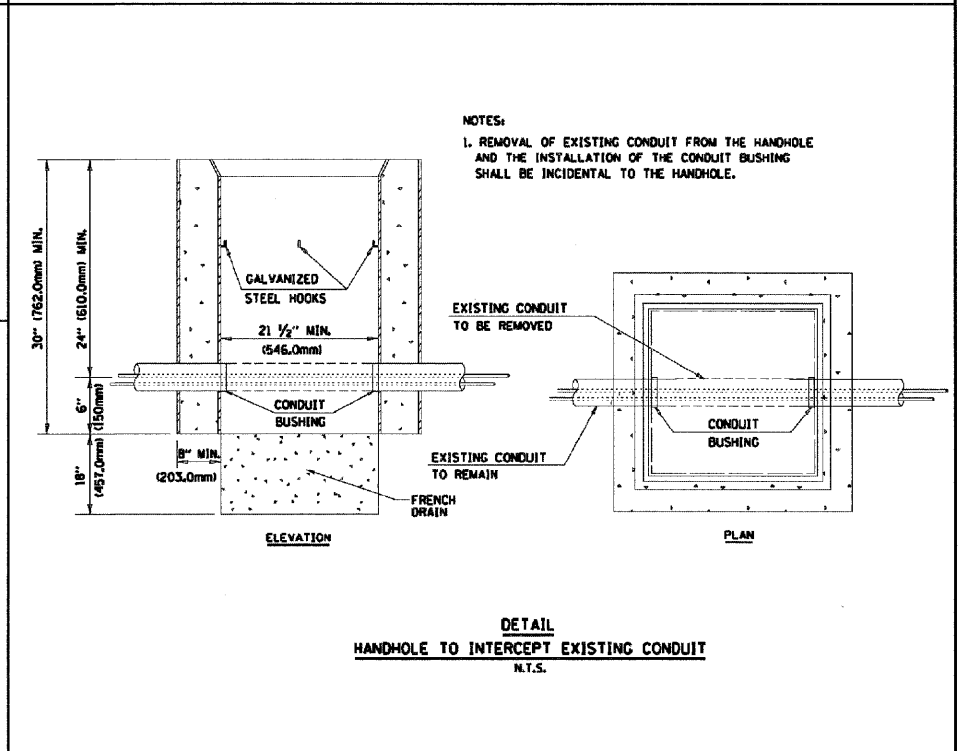
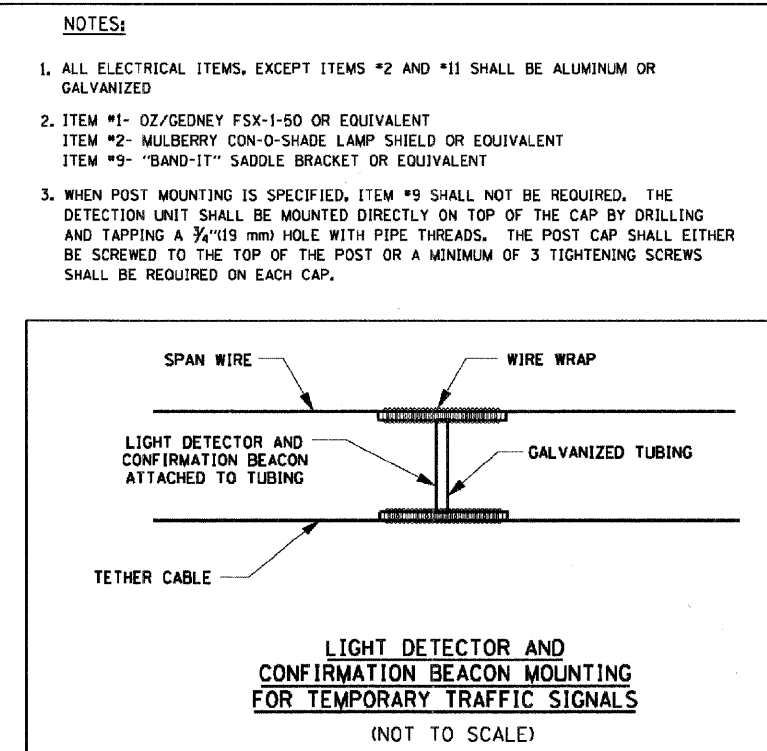
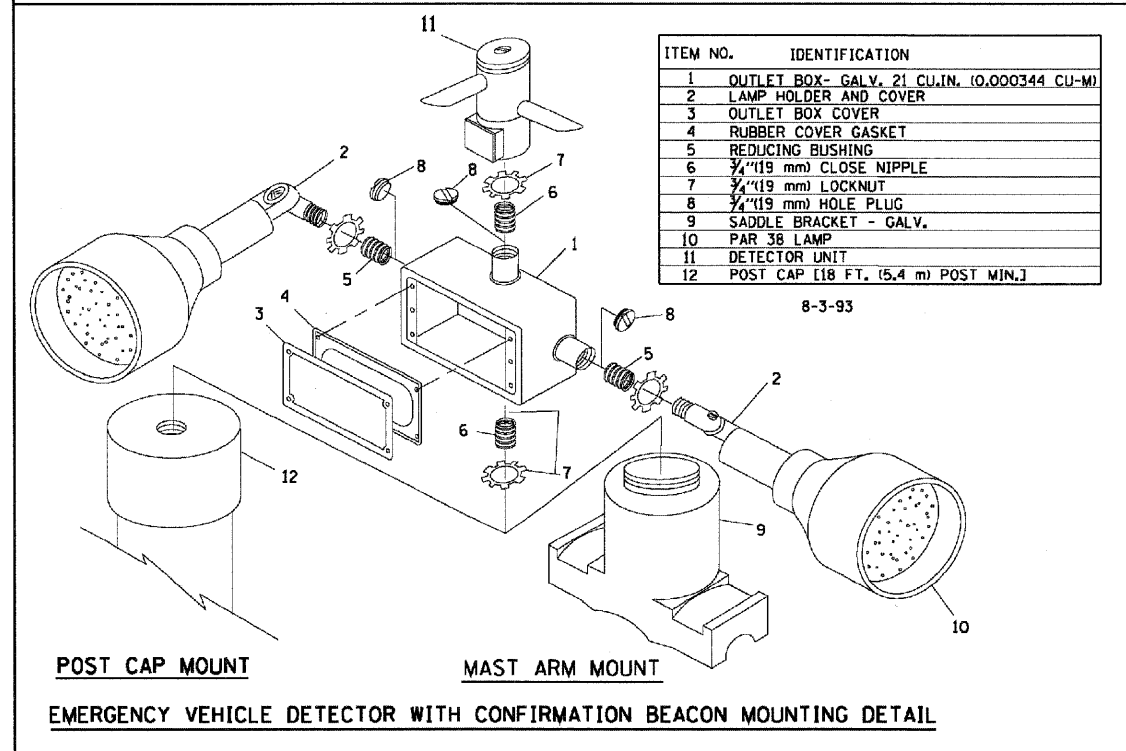
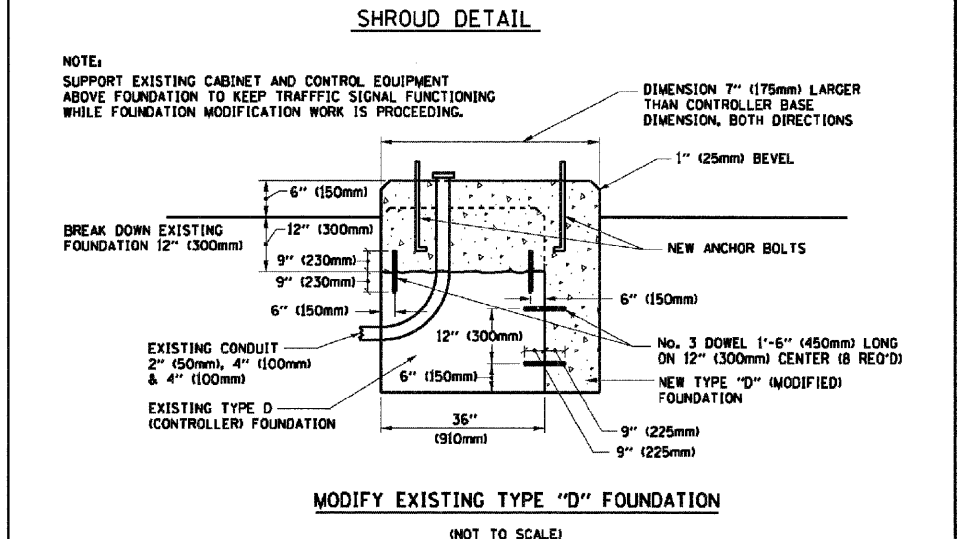
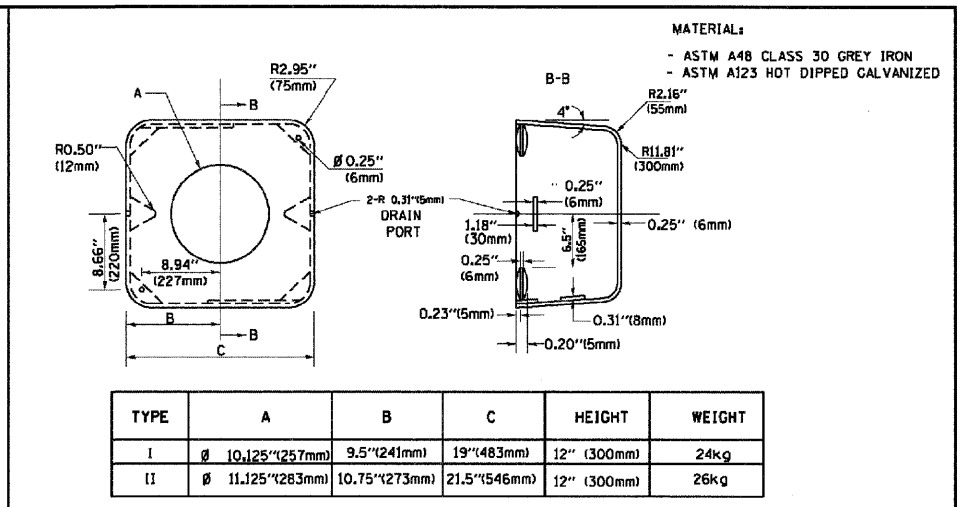
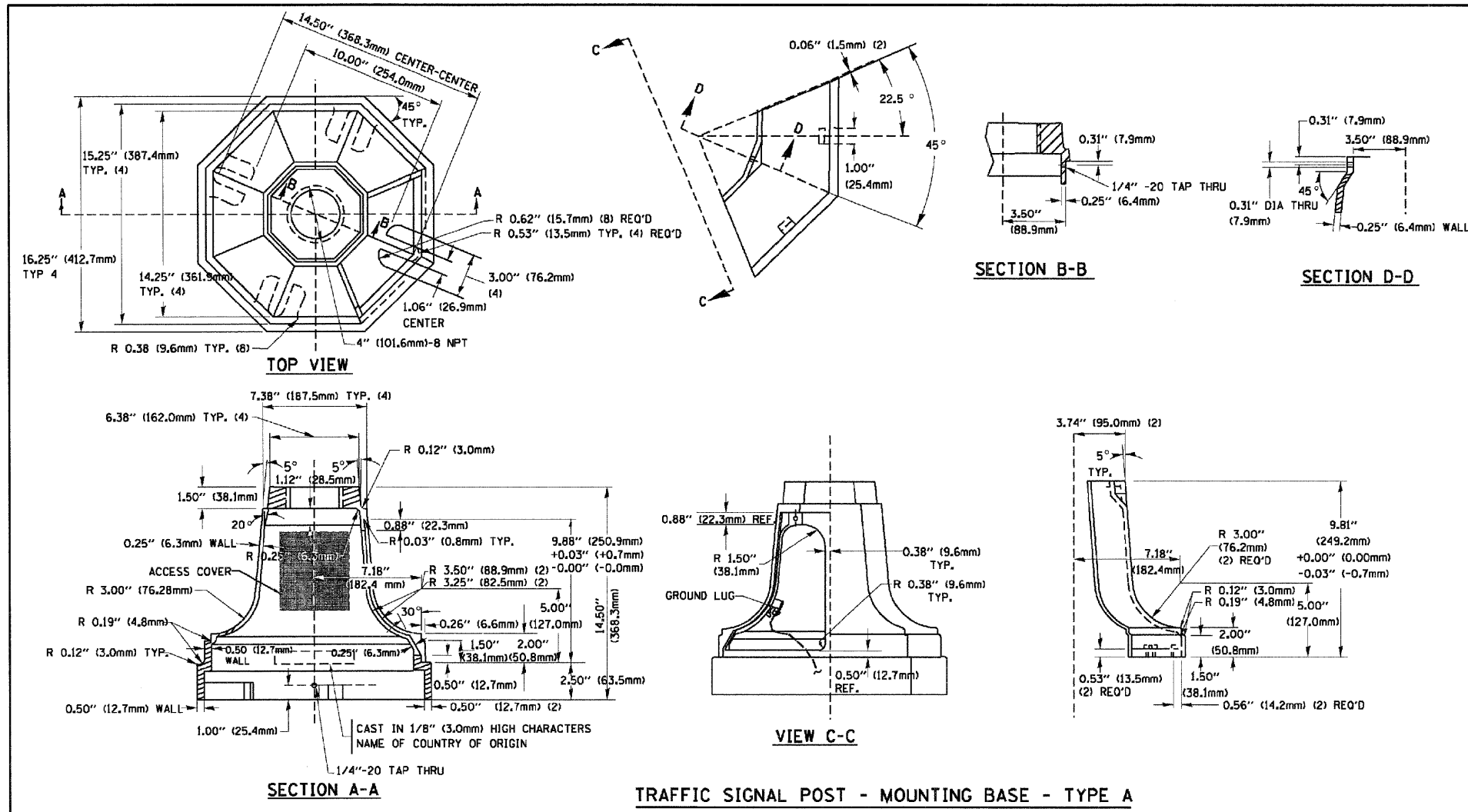
- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION, AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

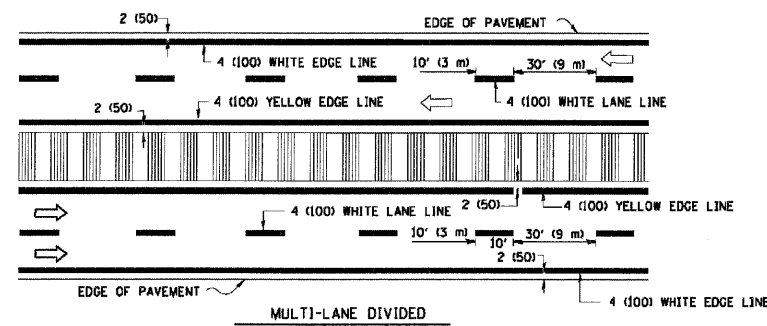
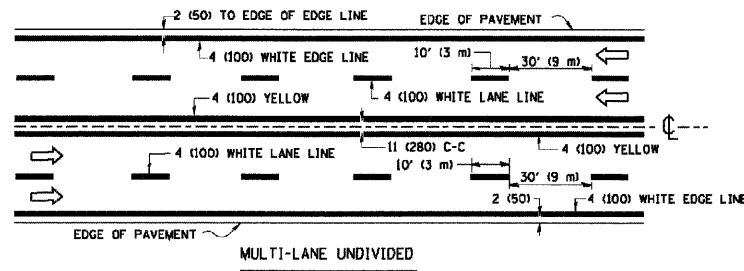
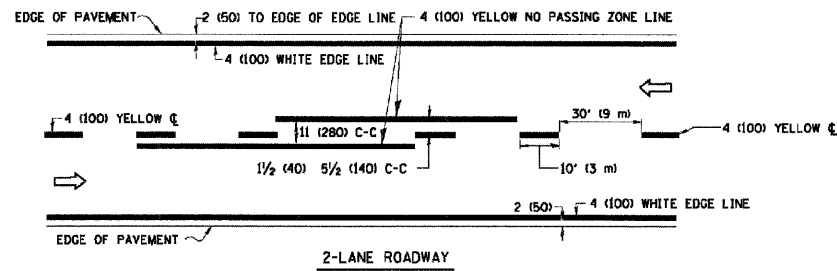


- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



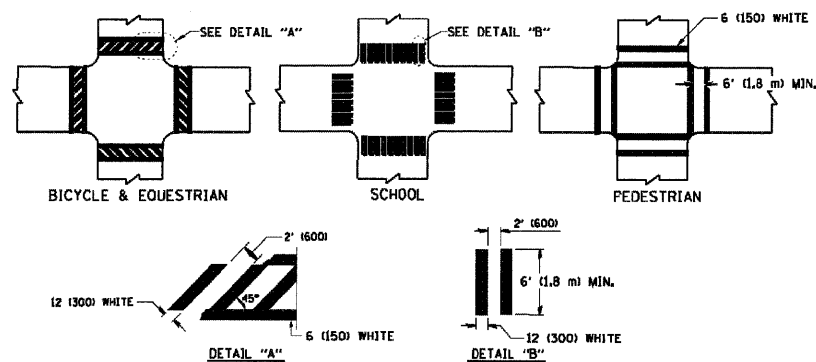
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PLOT SCALE = 50.0000 1/ IN.	DRAWN - R.W.P.	CHECKED - D.A.Z.	REVISED - BUR. TRAFFIC 01-01-02			SCALE: NONE	SHEET NO. 3 OF 4 SHEETS	STA. TO STA.	CONTRACT NO. 60G39			
PLOT DATE = 1/4/2008	DATE - 05-30-00	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



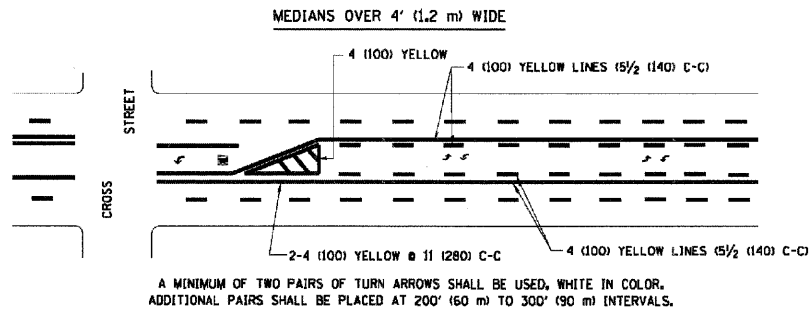
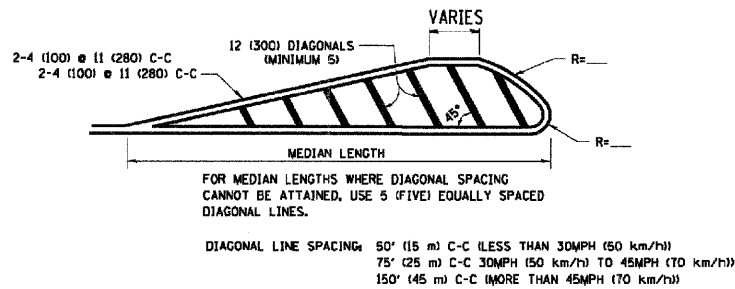
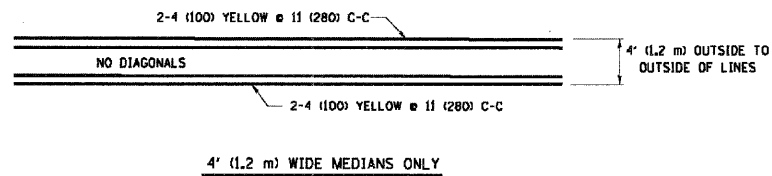


NOTE: MEDIANS WITH BARRIER CURBS DO NOT REQUIRE AN EDGE LINE

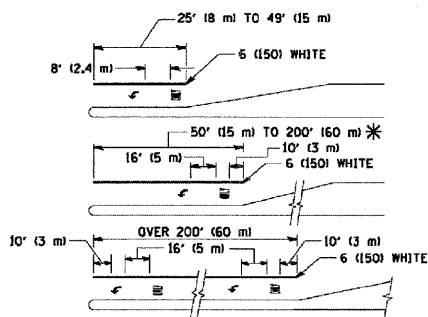
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



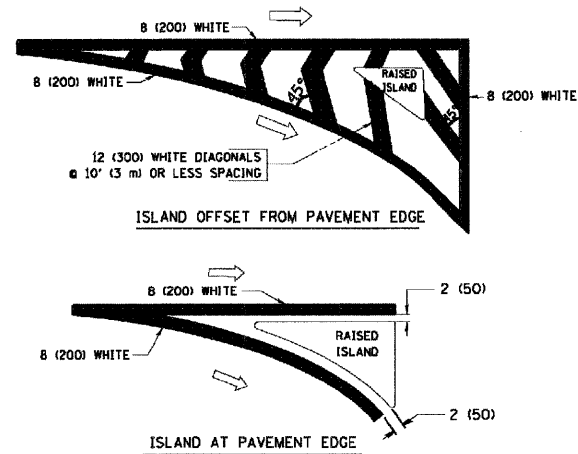
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (1000)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (1000)	SOLID	YELLOW	11 (2800) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (1000) 2 @ 4 (1000)	SOLID SOLID	YELLOW YELLOW	5 1/2' (1400) C-C FROM SKIP-DASH CENTERLINE 11 (2800) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (1000) 5 (1250) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (1000)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (1500) LINE; FULL SIZE LETTERS & SYMBOLS 18' (2.4m)	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (1000) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2' (1400) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (1500) 12 (3000) @ 45° 12 (3000) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (1000) WITH 12 (3000) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (2800) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
DORE MARKING AND CHANNELIZING LINES	8 (2000) WITH 12 (3000) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (3000) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (23 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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 PLOT DATE = 1/4/2008

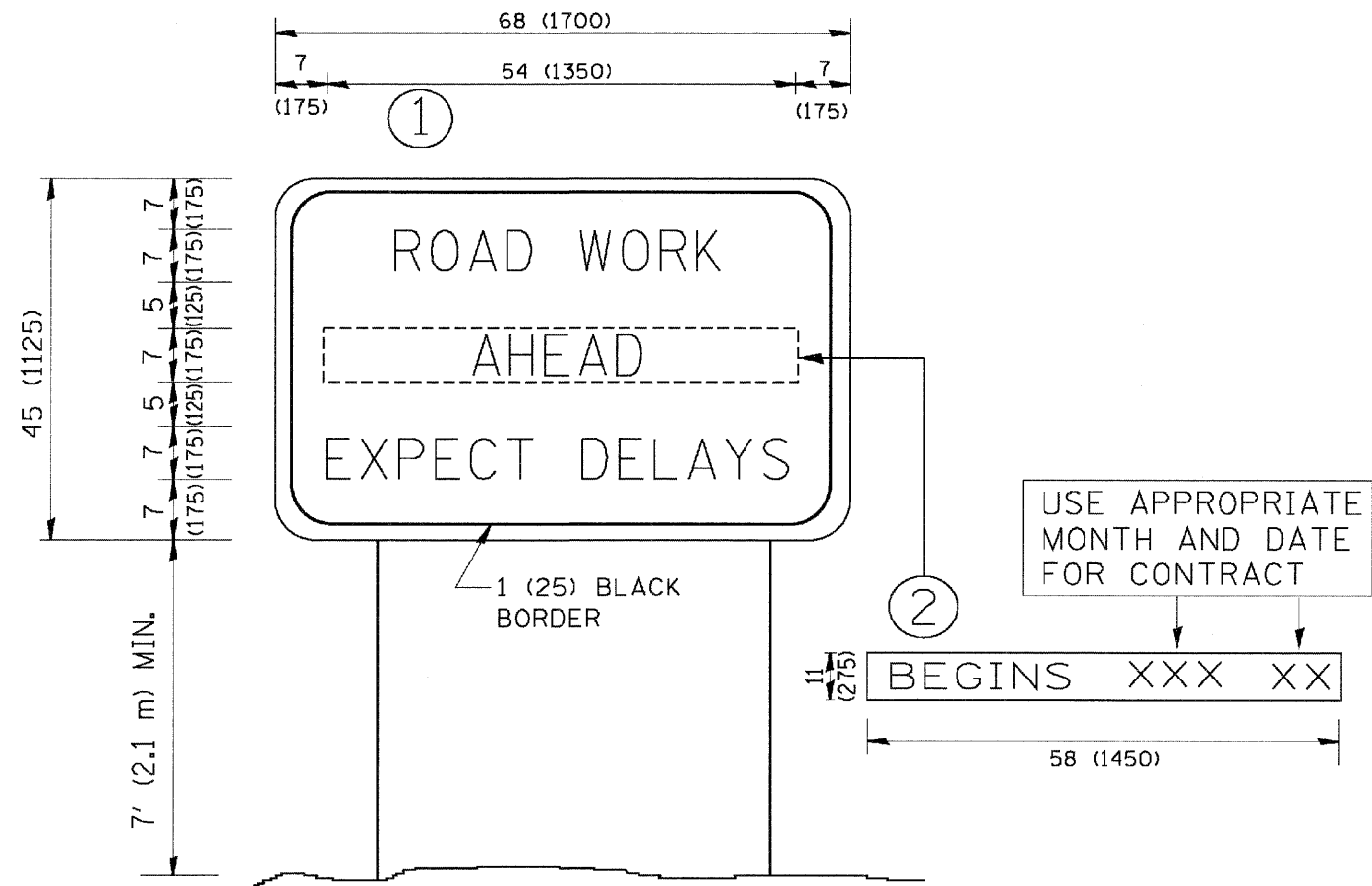
DESIGNED - EVERS
 DRAWN -
 CHECKED -
 DATE - 03-19-90
 REVISED - T. RAMMACHER 10-27-94
 REVISED - A. HOUSEH 10-09-96
 REVISED - A. HOUSEH 10-17-96
 REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	30
TC-13		CONTRACT NO. 60G39		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.






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	PLOT SCALE = 60.000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.	TC-22		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMNACHER 02-02-99		CONTRACT NO. 60639							
		DATE -	REVISED - C. JUCIUS 01-31-07		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

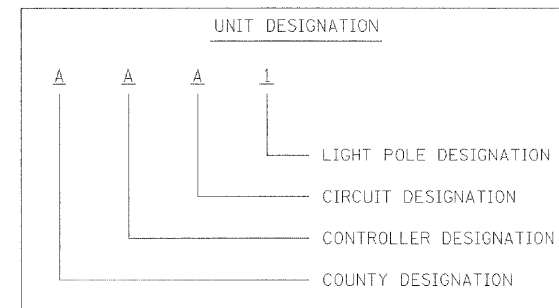
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 NOTE BOOK NO. DRAWN BY DATE
 CHECKED BY DATE
 STRUCTURE NOTATIONS CRND
 PLAN SURVEYED BY DATE
 NOTE BOOK NO. CHECKED BY DATE
 FILE NAME
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 821-0500
 N:\dot\9808040\Task_FF-HH_IL_19_Safety\Traffic\LIT_Notes-IL19.dgn

GENERAL NOTES:

- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING.
- ALL LIGHT POLES SHALL HAVE A MINIMUM SETBACK OF 2 FEET FROM THE BACK OF CURB (UNLESS OTHERWISE NOTED).
- SERVICE VOLTAGE IS 240/480V, 1PH, 3W, LUMINAIRE BALLAST SHALL BE CONNECTED AT 240V.
- ALL LUMINAIRES SHALL HAVE A LUMINAIRE KEEPER INSTALLED (SEE DETAIL).
- THE CONTRACTOR SHALL STAKE THE PROPOSED LOCATION OF THE LIGHT POLES AND HAVE THE LOCATIONS APPROVED BY THE ENGINEER BEFORE INSTALLING THE LIGHT POLE FOUNDATIONS.
- UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK ARE PROPOSED NEW ITEMS AND WORK.
- ALL LIGHT POLES SHALL BE INSTALLED AT A 2 FOOT SETBACK UNLESS OTHERWISE NOTED.
- THE ACTUAL LIGHTING CONTROLLER LOCATION TO BE DETERMINED IN FIELD AFTER COMED SERVICE LOCATION IS VERIFIED

GENERAL LEGEND

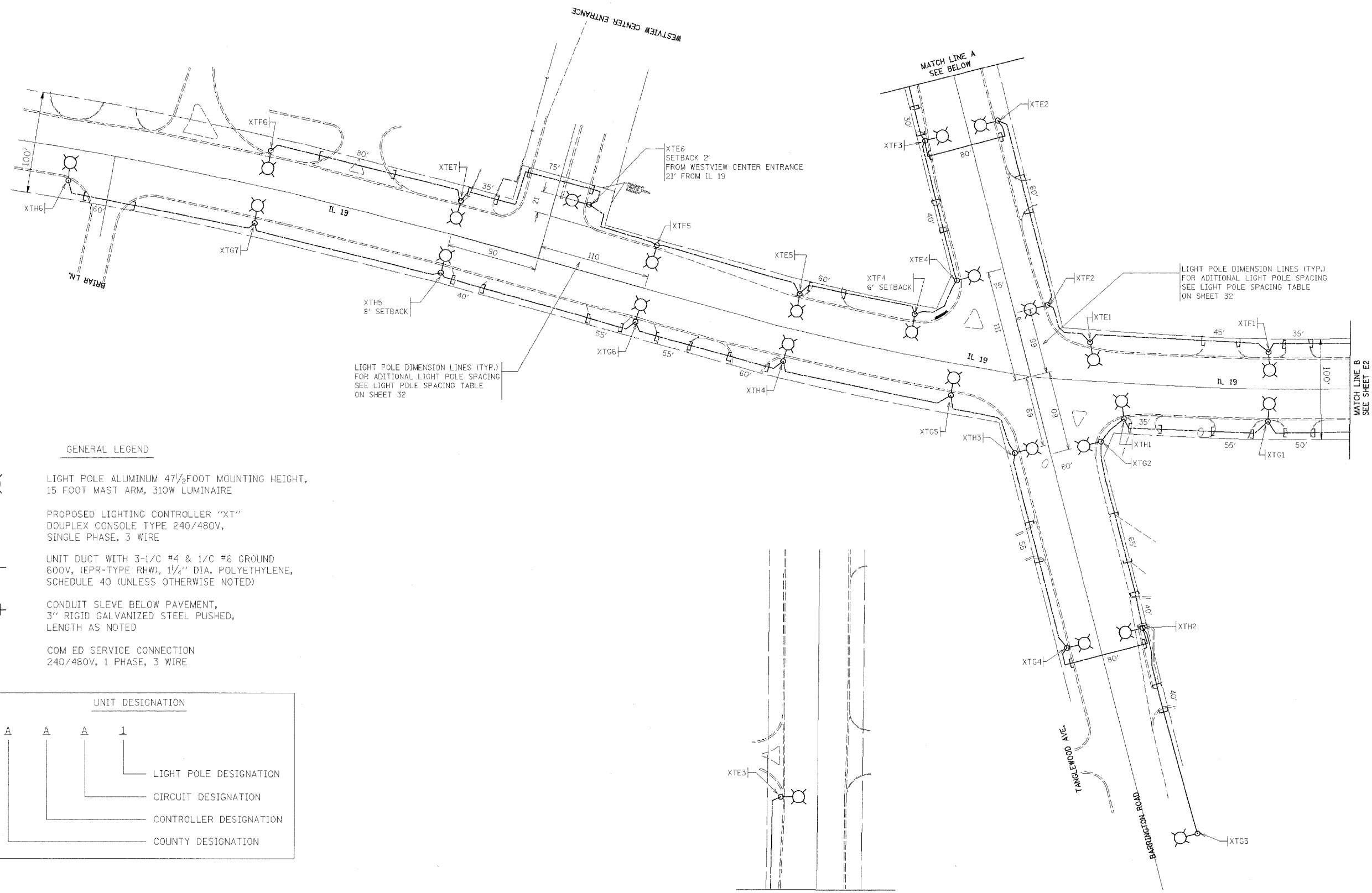
-  LIGHT POLE ALUMINUM 47 1/2 FOOT MOUNTING HEIGHT, 15 FOOT MAST ARM, 310W LUMINAIRE
-  PROPOSED LIGHTING CONTROLLER "XT" DOUPLEX CONSOLE TYPE 240/480V, SINGLE PHASE, 3 WIRE
-  UNIT DUCT WITH 3-1/2 #4 & 1/2 #6 GROUND 600V, (EPR-TYPE RHW), 1/4" DIA. POLYETHYLENE, SCHEDULE 40 (UNLESS OTHERWISE NOTED)
-  CONDUIT SLEEVE BELOW PAVEMENT, 3" RIGID GALVANIZED STEEL PUSHED, LENGTH AS NOTED
-  COM ED SERVICE CONNECTION 240/480V, 1 PHASE, 3 WIRE



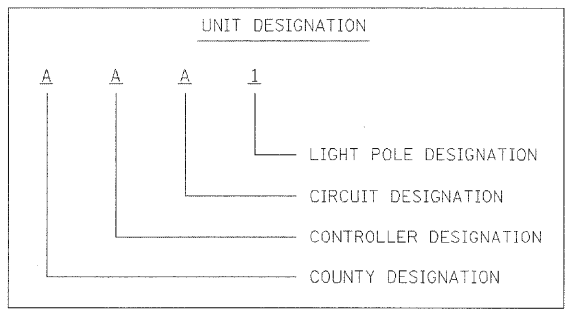
LIGHT POLE SPACING TABLE											
FOR REFERENCE POINTS SEE LIGHT POLE DIMENSION LINES ON SHEET E2											
IL ROUTE 19					BARRINGTON ROAD						
SOUTH SIDE OF STREET			NORTH SIDE OF STREET			EAST SIDE OF STREET		WEST SIDE OF STREET			
FROM	TO	DISTANCE	FROM	TO	DISTANCE	FROM	TO	DISTANCE	FROM	TO	DISTANCE
XTH6	XTH7	200				XTG3	XTH2	200			
XTG7	XTH5	200	XTF6	XTE7	200	XTH2	XTG2	190	XTG4	XTH3	200
XTH5	XTG6	200	XTE7	XTF5	200	XTG2	XTF2	145	XTH3	XTE4	180
XTG6	XTH4	150	XTF5	XTE5	150	XTF2	XTE2	190	XTE4	XTF3	145
XTH4	XTG5	170	XTE5	XTF4	120				XTF3	XTE3	150
XTG5	XTH1	170	XTF4	XTE1	185						
XTH1	XTC1	150	XTE1	XTF1	175						
XTG1	XTD1	180	XTF1	XTA1	180						
XTD1	XTC1	170	XTA1	XTB1	170						
XTC1	XTD2	190	XTB1	XTA3	190						
XTD2	XTC2	180	XTA3	XTB2	180						
XTC2	XTD3	180	XTB2	XTA4	180						
XTD3	XTC3	190	XTA4	XTB3	190						
			XTB3	XTA6	190						

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PLOT SCALE = 50'	CHECKED - MJT	REVISIED -	SCALE: N.T.S.			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60639			
PLOT DATE = 3/18/2009	DATE -	REVISIED -				ILLINOIS FED. AID PROJECT					

DATE	BY	DATE	BY
SURVEYED ALIGNED CHECKED P.L. OF MAIN CHECKED CADD FILE NAME		PLAN NOTE BOOK NO.	
PROFILE SURVEYED CHECKED P.L. NOTED STRUCTURE NOTATIONS CHECKED		CHRISTOPHER B. BURKE ENGINEERING LTD. 9575 West Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	
N:\1004\100400\Task_FF-IH_IL_19_Safing\Task_FF-IH_IL_19_Vestview&Barrington.dgn			



- GENERAL LEGEND**
- LIGHT POLE ALUMINUM 47 1/2 FOOT MOUNTING HEIGHT, 15 FOOT MAST ARM, 310W LUMINAIRE
 - PROPOSED LIGHTING CONTROLLER "XT" DOUPLEX CONSOLE TYPE 240/480V, SINGLE PHASE, 3 WIRE
 - UNIT DUCT WITH 3-1/C #4 & 1/C #6 GROUND 600V, (EPR-TYPE RHW), 1/4" DIA. POLYETHYLENE, SCHEDULE 40 (UNLESS OTHERWISE NOTED)
 - CONDUIT SLEEVE BELOW PAVEMENT, 3" RIGID GALVANIZED STEEL PUSHED, LENGTH AS NOTED
 - COM ED SERVICE CONNECTION 240/480V, 1 PHASE, 3 WIRE



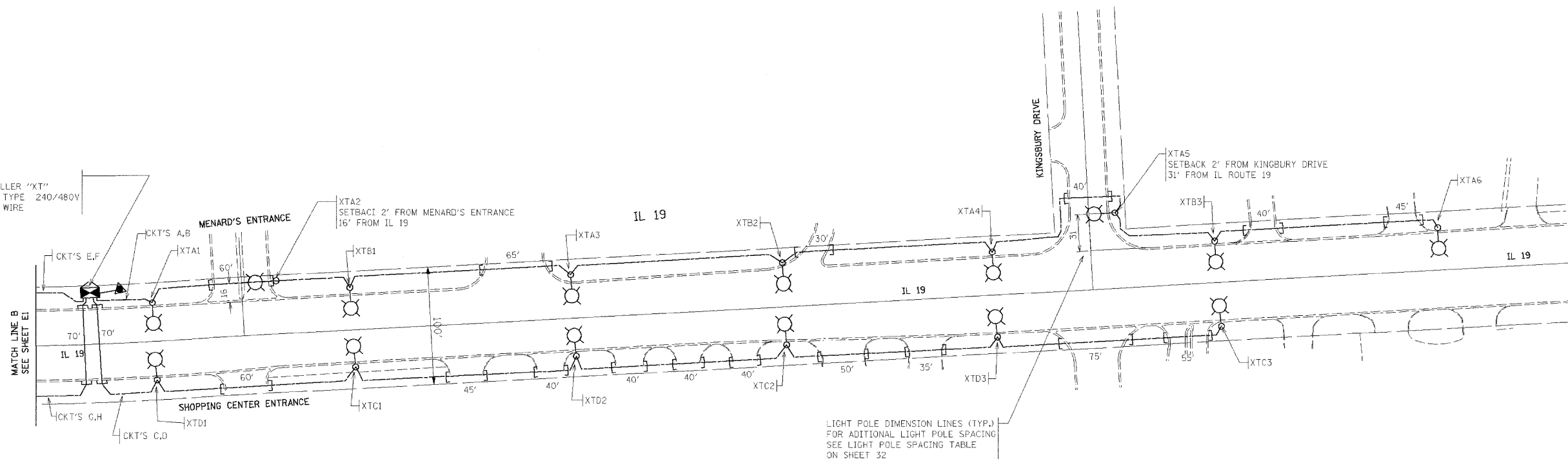
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PLOT SCALE = 50'	DRAWN - FPB / FCP	CHECKED - MJT	REVISIONS -		SCALE: 1" = 50'		SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60G39			
PLOT DATE = 3/18/2009	DATE -	REVISIONS -	REVISIONS -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

PROFILE	SURVEYED	DATE	BY
NOTE BOOK NO.	GRADES CHECKED		
	ELM. NOTED		
	STRUCTURE NOTATIONS		
PLAN	SURVEYED	DATE	BY
NOTE BOOK NO.	ALTIMETER CHECKED		
	RT. OF WAY CHECKED		
	CAD FILE NAME		

CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (617) 823-0500

NA:\data\20090408\Task FF-HH IL 19 Safety\TheTraffic\IL19Barrington&Kingsbury.dgn

PROPOSED LIGHTING CONTROLLER "XT"
 DUPLEX CONSOLE TYPE 240/480V
 SINGLE PHASE, 3 WIRE

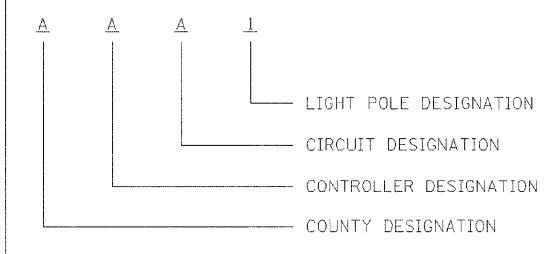


LIGHT POLE DIMENSION LINES (TYP.)
 FOR ADDITIONAL LIGHT POLE SPACING
 SEE LIGHT POLE SPACING TABLE
 ON SHEET 32

GENERAL LEGEND

- LIGHT POLE ALUMINUM 47 1/2 FOOT MOUNTING HEIGHT, 15 FOOT MAST ARM, 31CW LUMINAIRE
- PROPOSED LIGHTING CONTROLLER "XT" DUPLEX CONSOLE TYPE 240/480V, SINGLE PHASE, 3 WIRE
- UNIT DUCT WITH 3-1/2 #4 & 1/2 #6 GROUND 600V, (EPR-TYPE RHW), 1 1/4" DIA. POLYETHYLENE, SCHEDULE 40 (UNLESS OTHERWISE NOTED)
- CONDUIT SLEEVE BELOW PAVEMENT, 3" RIGID GALVANIZED STEEL PUSHED, LENGTH AS NOTED
- COM ED SERVICE CONNECTION 240/480V, 1 PHASE, 3 WIRE

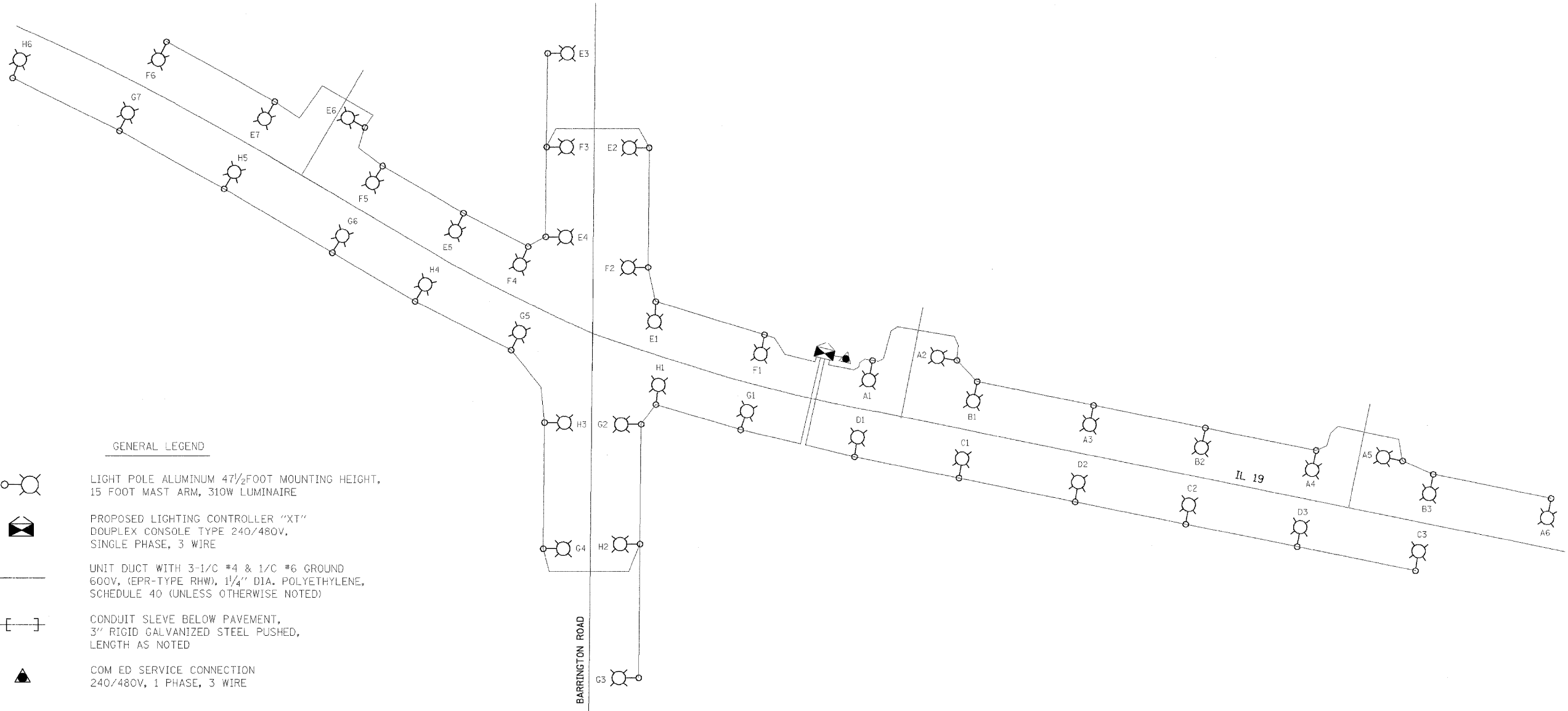
UNIT DESIGNATION



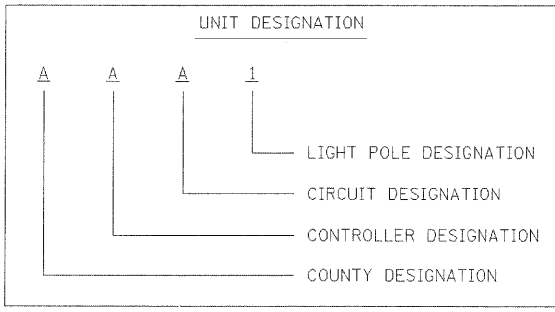
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	PLOT SCALE = 50'	DRAWN - FPB / FCP	REVISED -		SCALE: 1" = 50'	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60G39		
	PLOT DATE = 3/18/2009	CHECKED - MJT	REVISED -							ILLINOIS FED. AID PROJECT		
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- GENERAL LEGEND**
- LIGHT POLE ALUMINUM 47 1/2 FOOT MOUNTING HEIGHT, 15 FOOT MAST ARM, 310W LUMINAIRE
 - PROPOSED LIGHTING CONTROLLER "XT" DOUPLEX CONSOLE TYPE 240/480V, SINGLE PHASE, 3 WIRE
 - UNIT DUCT WITH 3-1/C #4 & 1/C #6 GROUND 600V, (EPR-TYPE RHW), 1/4" DIA. POLYETHYLENE, SCHEDULE 40 (UNLESS OTHERWISE NOTED)
 - CONDUIT SLEEVE BELOW PAVEMENT, 3" RIGID GALVANIZED STEEL PUSHED, LENGTH AS NOTED
 - COM ED SERVICE CONNECTION 240/480V, 1 PHASE, 3 WIRE



CIRCUIT	RED PHASE	CIRCUIT	BLACK PHASE
A	9.0 A	B	4.5 A
C	4.5 A	D	4.5 A
E	10.5 A	F	9.0 A
G	10.5 A	H	9.0 A

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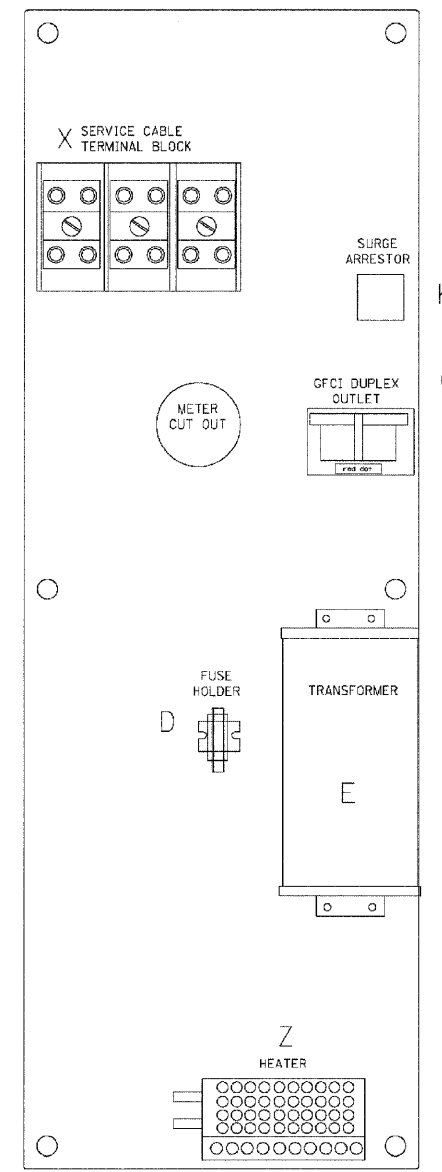
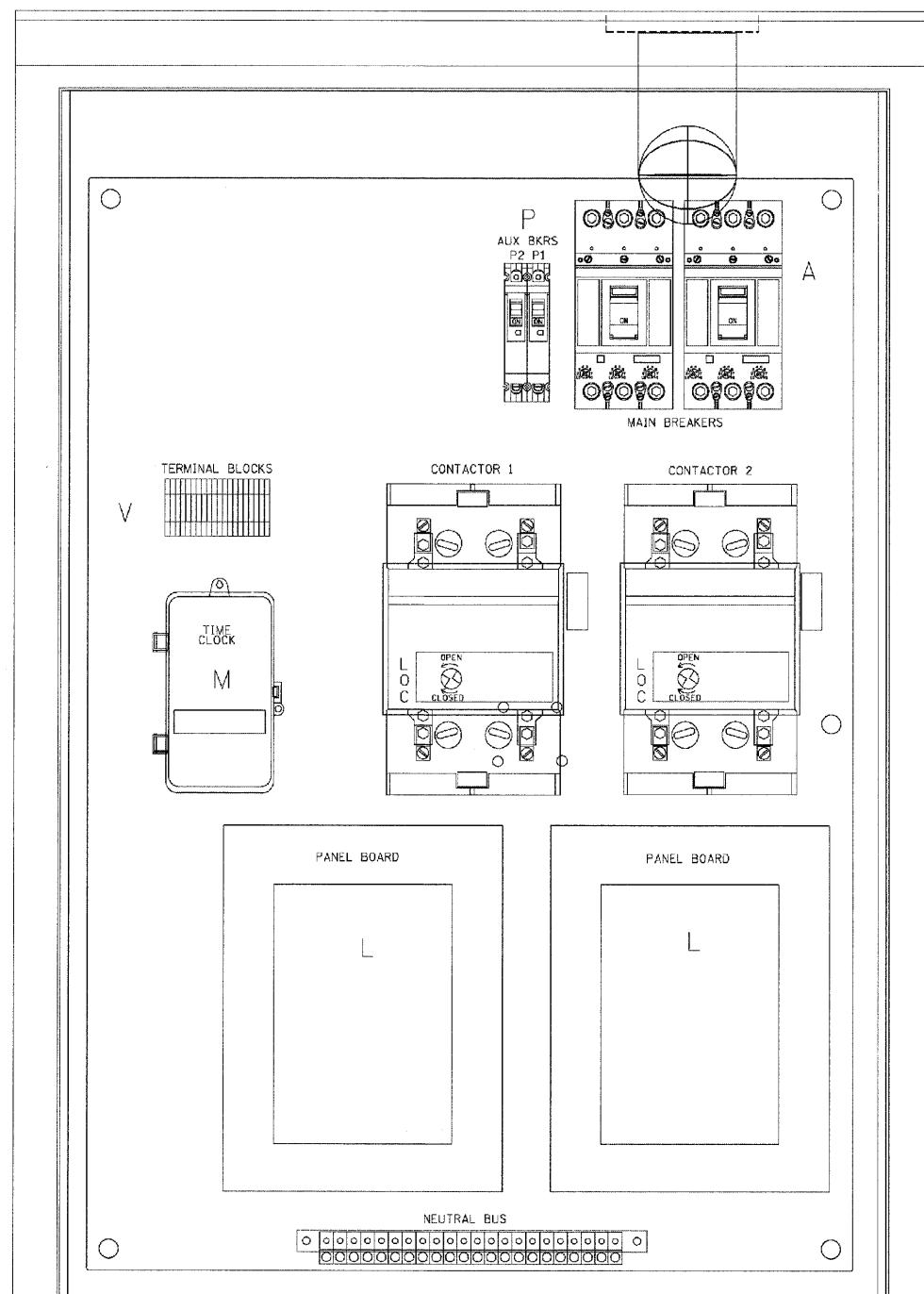
BILL OF MATERIALS		
ITEM #	QTY	DESCRIPTION
A	2	FXD62B175 BREAKERS 2 POLE 175 AMP WITH AUX CONTACT
C1,C2	2	MECHANICAL CONTRACTOR 8903PBV10X11V39 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	SECTIONAL FUSE HOLDER
E	1	1.5 KVA 277V-240/120 TRANSFORMER
G	1	15 AMP GFCI
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTOR
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OF
O	1	DPDT 20 AMP AUTO-MANUAL
P1	1	BREAKER 1P 15A
P2	1	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH DPDT 25 AMP RELAYS (R1,R2,R3,R4). MOMENTARY CONTACT ADAPTER. QTY 12
V	20	TERMINAL BLOCKS
X	1	620 AMP SPLICE BLOCK
Y	1	CHROMALOX WR 80, 40-80 DEG THERMOSTAT
Z	1	HEATREX 276-10 375 WATT HEATER

*

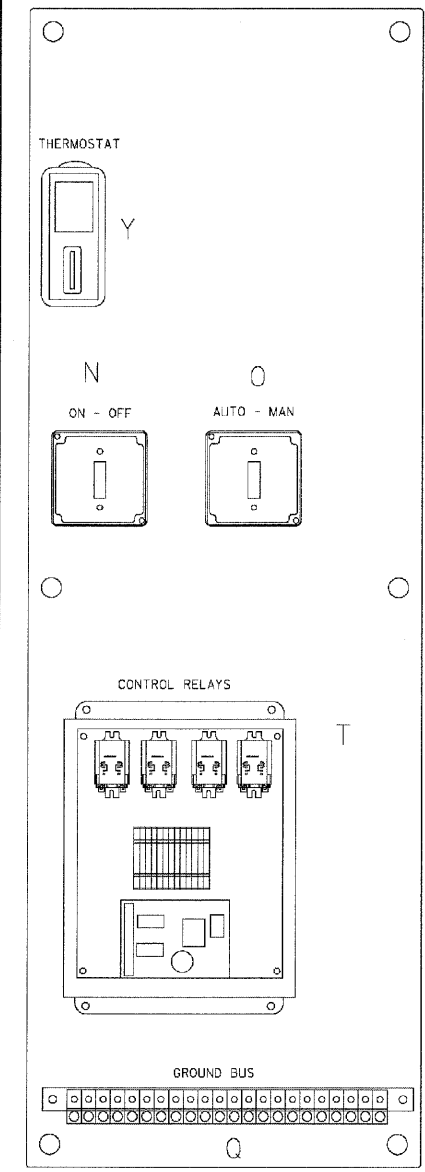
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	36
CONTRACT NO. 60639				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHTING CONTROLLER, DUPLEX TYPE



RIGHT SIDE PANEL

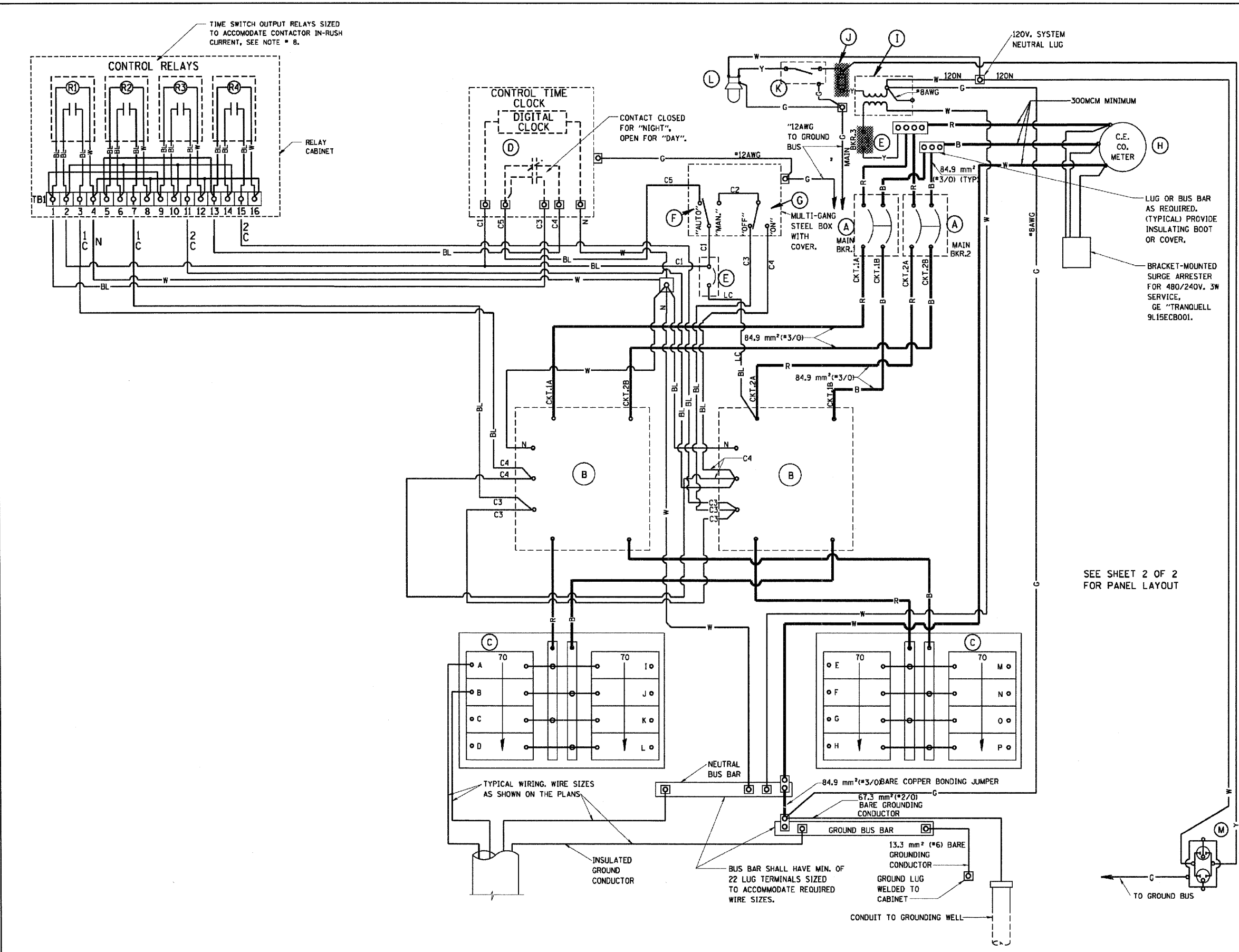


LEFT SIDE PANEL

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, DUPLEX TYPE
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.



DEVICE SCHEDULE		
ITEM	QUANT.	DESCRIPTION
(A)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V. A.C., 225A FRAME, 175A. NON-INTERCHANGABLE TRIP, BOLT-ON TYPE; INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
(B)	2	LIGHTING CONTACTOR (REMOTE CONTROL, SWITCH MECHANICALLY HELD, ASCO 920, MOUNTED ON SUB PANEL 200A., 2P., 600V. WITH 240V. COIL.
(C)	2	PANEL BOARD (INTERIOR ONLY) 480/240V. SINGLE PHASE WITH 200A. COPPER MAINS AND EIGHT 1P-70A BOLT-ON BRANCH BREAKERS EACH RATED 277V. WITH INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(D)	1	TIME CLOCK; 240V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS. RATED FOR -30 DEGREES C. TO +70 DEGREES C.
(E)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 277V., BOLT-ON TYPE, 15A WITH AN INTERRUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 20A., 240V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20A., 240V. PREMIUM SPEC. GRADE
(H)	1	SOCKET FOR ELECTRIC UTILITY COMPANY METER.
(I)	1	STEP DOWN TRANSFORMER 240V.-120V., 1KVA.
(J)	2	FUSE HOLDER 15A., 250V., 5A. FUSE
(K)	1	20A. SPST MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED)
(L)	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX.
(M)	1	GFI RECEPTACLE, 120V., 20A., PREMIUM SPEC. GRADE, NEMA REFERENCE 5-15R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.

- NOTES:**
- ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF-STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
 - ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
 - PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
 - ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
 - ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
 - THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL"
 - SEE CABINET AND FOUNDATION DETAIL SHEET FOR SCHEMATIC DIAGRAM AND DEVICE LAYOUT.
 - CONTROL RELAYS CAN BE ELIMINATED IF THE CONTROL TIME CLOCK OUTPUT CONTACTS ARE RATED FOR CONTACTOR INRUSH CURRENT.

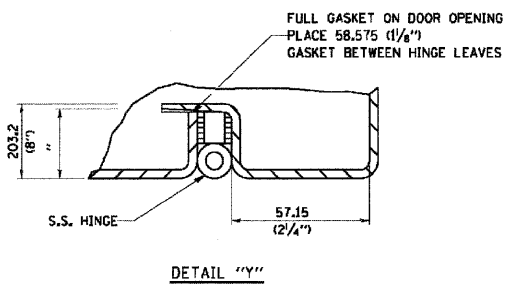
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PROJECT: STRUCTURE NOTATION CHFD
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 DATE: 3/18/2009

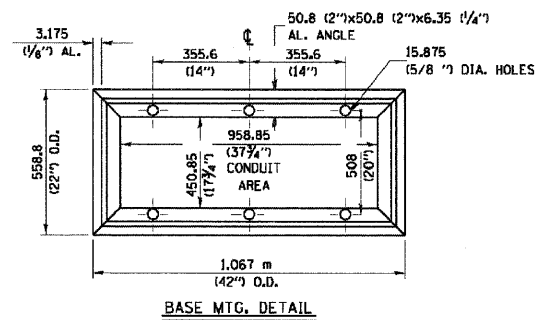
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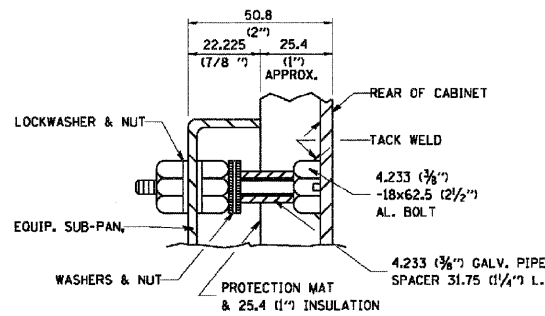
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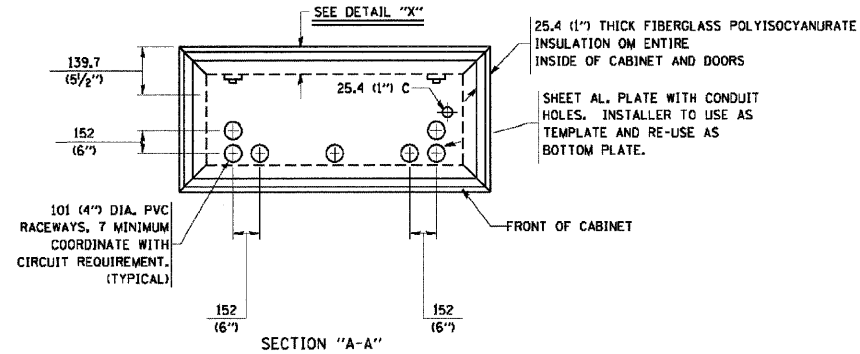
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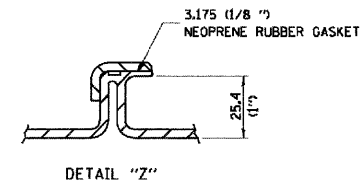
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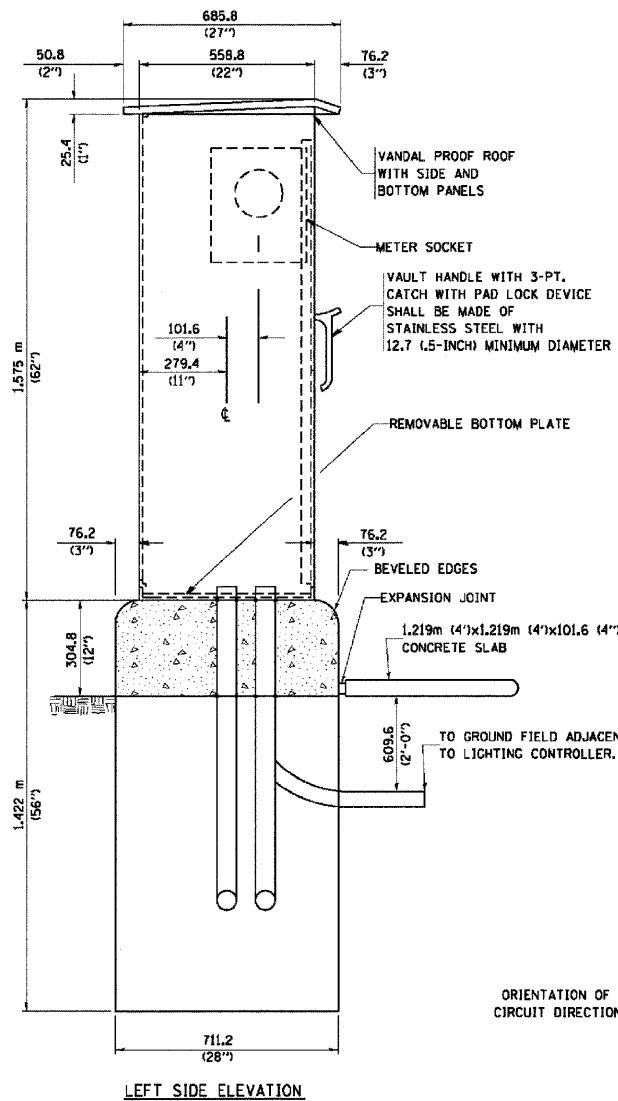
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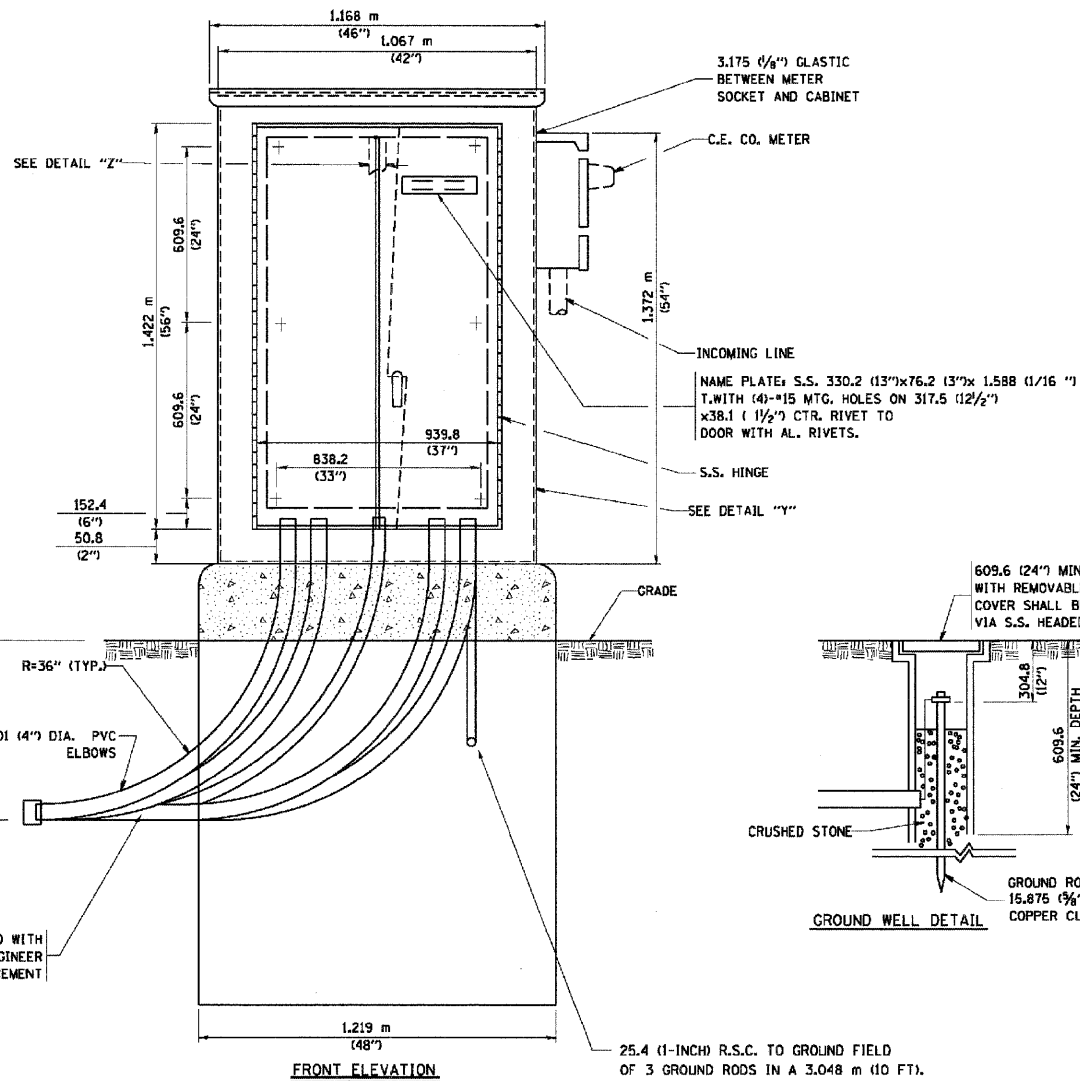
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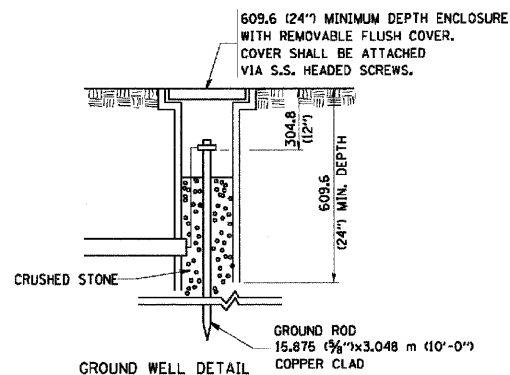
LEFT SIDE ELEVATION



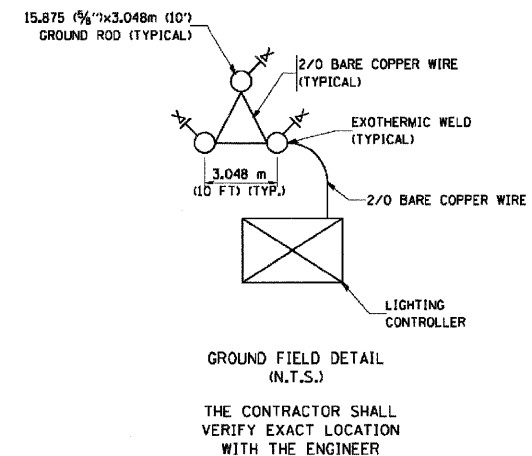
FRONT ELEVATION

ORIENTATION OF RACEWAYS SHALL BE COORDINATED WITH CIRCUIT DIRECTIONS AND BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT

25.4 (1-INCH) R.S.C. TO GROUND FIELD OF 3 GROUND RODS IN A 3.048 m (10 FT). TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER. NO GROUND WELL SHALL BE PLACED IN CONCRETE PAD IN FRONT OF CONTROLLER.



GROUND WELL DETAIL



GROUND FIELD DETAIL (N.T.S.)

FILE NAME = ...TrafLit.dwt03-be200e.dgn	USER NAME = FPAICONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER, DUPLEX TYPE			F.A.U. R.T.E. 1321	SECTION 2009-034 TS	COUNTY CODK	TOTAL SHEETS 45	SHEET NO. 38
DRAWN - FFB / FCP					REVISIONS	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60639			
CHECKED - MJT					REVISIONS	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

NOTES

1. CABINET SHALL BE FABRICATED FROM 3.175 (0.125-INCH) SHEET ALUMINUM * 3003H14, FORMED AND ARC WELDED ASSEMBLY.
2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
3. NAME PLATE SHALL HAVE ENGRAVED 19.05 (0.75-INCH) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
4. ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
5. CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8. METAL MOUNTING PANEL SHALL BE *10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 3.175 (0.125-INCH) THICK GLASTIC INSULATION BACK PANEL.
10. ALL DEVICES SHALL BE FRONT REMOVABLE.
11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY
12. SET "ON TIME" TO 30 MINUTES AFTER ASTRONOMICAL SUNSET.
13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE
16. ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
 R - RED Y - YELLOW
 B - BLACK W - WHITE
 BL - BLUE G - GREEN
19. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE INDICATED
20. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE
21. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER

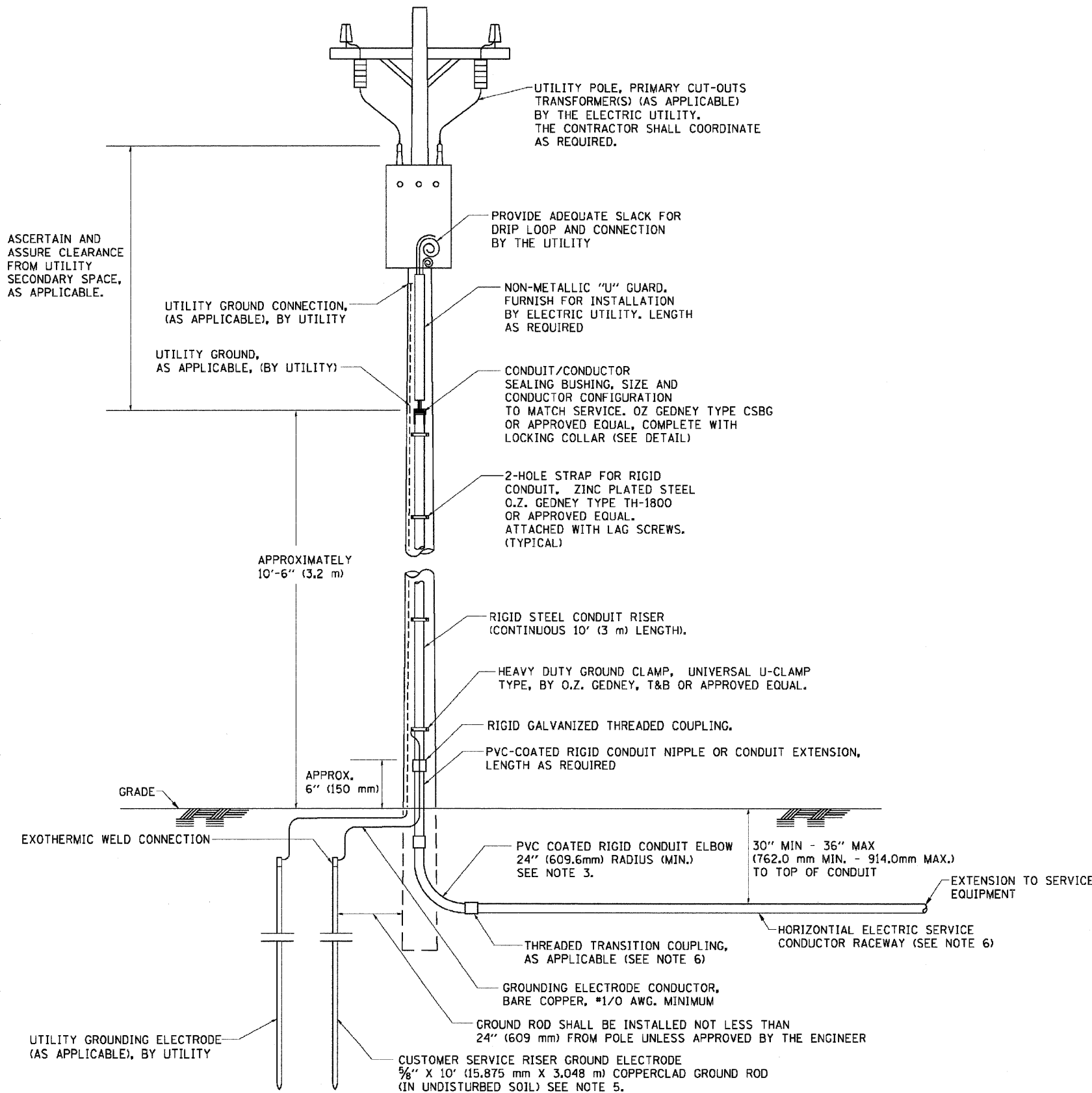
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PLOT SCALE = 20'	DRAWN - FPB / FCP	CHECKED - MJT	REVISED -			SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60G39			
PLOT DATE = 3/19/2009	DATE -	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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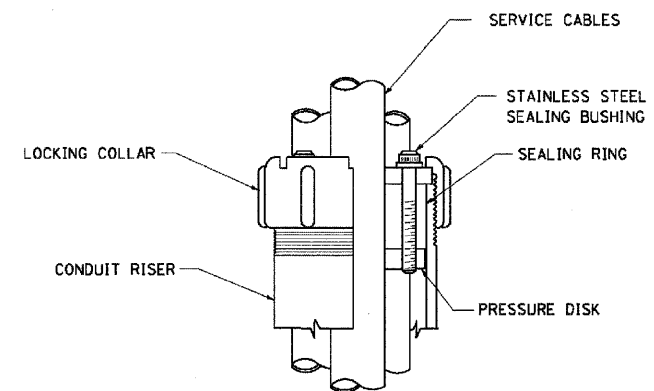


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

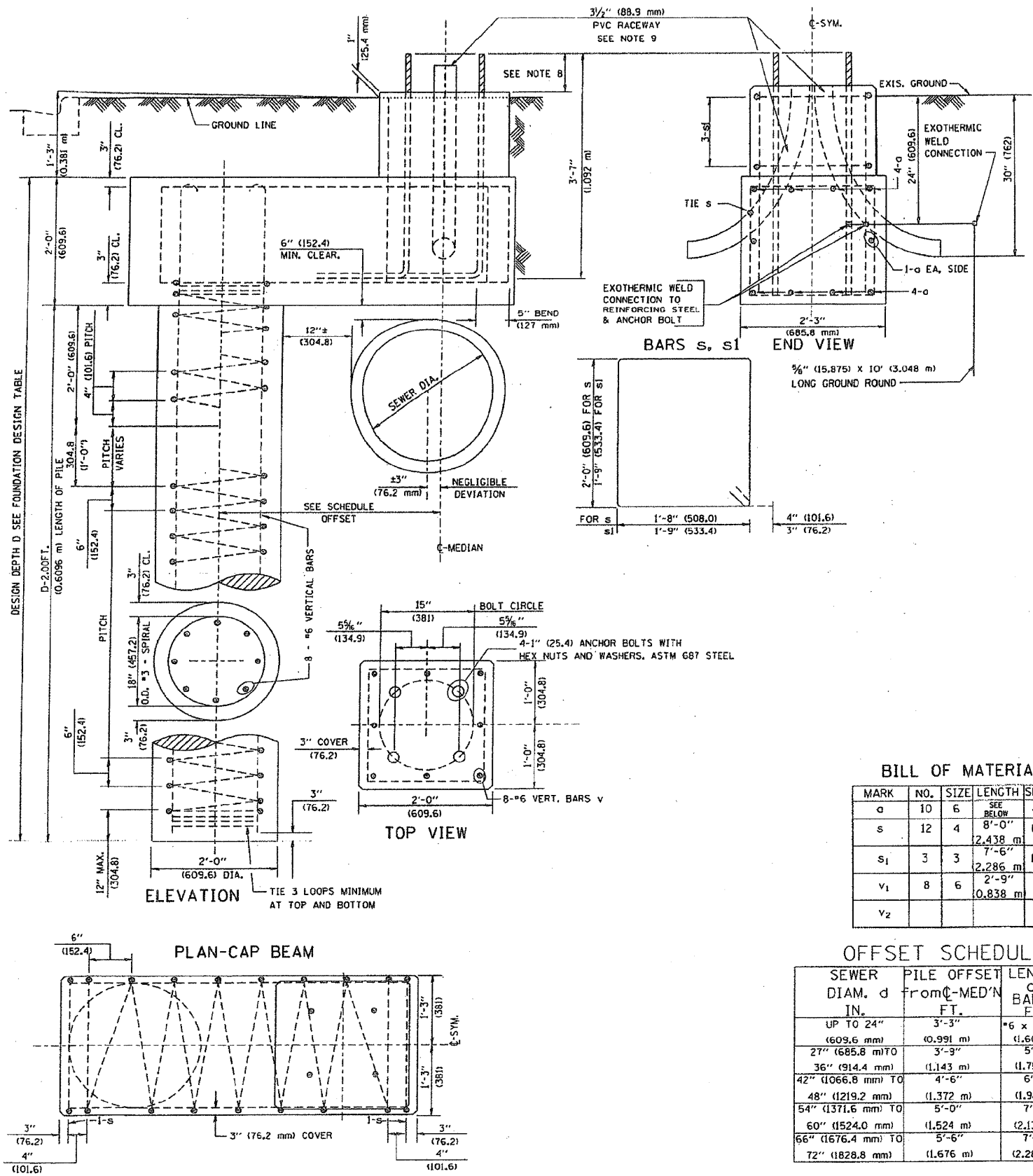
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...T:\office\NIT_det05-be220.dgn	PLOT SCALE = 20'	DRAWN - FPB / FCP	REVISED -			SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CONTRACT NO. 60639		
	PLOT DATE = 3/18/2009	CHECKED - MJT	REVISED -									
		DATE -	REVISED -									

FOUNDATION DESIGN TABLE

TYPE OF SOIL	DESIGN DEPTH OF FOUNDATION		REINFORCEMENT IN FOUNDATION			
	SINGLE ARM D	TWIN ARM D	SINGLE ARM		TWIN ARM	
			VERT BARS	SPIRAL	VERT BARS	SPIRAL
SOFT CLAY	13'-0" (3.962 m)	15'-0" (4.572 m)	8-#6X12'-6" (3.810 m)	*3X122' (37.186 m)	8-#6X14'-3" (4.343 m)	*3X141' (42.977 m)
MEDIUM CLAY	9'-6" (2.896 m)	10'-9" (3.277 m)	8-#6X9'-0" (2.743 m)	*3X90' (27.432 m)	8-#6X10'-0" (3.048 m)	*3X100' (30.480 m)
STIFF CLAY	7'-0" (2.134 m)	8'-0" (2.438 m)	8-#6X6'-6" (1.981 m)	*3X66' (20.112 m)	8-#6X7'-6" (2.286 m)	*3X76' (23.165 m)
LOOSE SAND	9'-0" (2.743 m)	10'-0" (3.048 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)	8-#6X9'-6" (2.896 m)	*3X94' (28.651 m)
MEDIUM SAND	8'-3" (2.515 m)	9'-0" (2.743 m)	8-#6X8'-0" (2.438 m)	*3X78' (23.774 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)
DENSE SAND	7'-9" (2.362 m)	9'-0" (2.743 m)	8-#6X7'-6" (2.286 m)	*3X73' (22.250 m)	8-#6X8'-6" (2.591 m)	*3X85' (25.908 m)
ROCK OR SOLIDIFIED SLAG	5'-0" (1.524 m)	5'-0" (1.524 m)	NONE	NONE	NONE	NONE

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



BILL OF MATERIAL

MARK	NO.	SIZE	LENGTH	SHAPE
a	10	6	SEE BELOW	—
s	12	4	8'-0" (2,438 m)	□
s1	3	3	7'-6" (2,286 m)	□
v1	8	6	2'-9" (0,838 m)	—
v2				

OFFSET SCHEDULE

SEWER DIAM. d IN.	PILE OFFSET from C-MED'N FT.	LENGTH of BAR a FT.
UP TO 24"	3'-3"	*6 x 5'-3"
24" TO 27"	4'-0"	*6 x 6'-0"
27" TO 30"	4'-6"	*6 x 6'-6"
30" TO 36"	5'-0"	*6 x 7'-0"
36" TO 42"	5'-6"	*6 x 7'-6"
42" TO 48"	6'-0"	*6 x 8'-0"
48" TO 54"	6'-6"	*6 x 8'-6"
54" TO 60"	7'-0"	*6 x 9'-0"
60" TO 66"	7'-6"	*6 x 9'-6"
66" TO 72"	8'-0"	*6 x 10'-0"

DATE: _____ BY: _____
 PROFILE SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 DATE: _____
 PLAN: _____
 NOTE BOOK NO.: _____
 DATE: _____
 CHECKED: _____
 DATE: _____
 STRUCTURE: _____
 NOTATION: _____

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 Rosemont, Illinois 60018
 (847) 823-0500

FILE NAME = ...Treffis\LT.dwg
 USER NAME = FPACIONE
 DESIGNED = ABR
 DRAWN = FPB / FCP
 PLOT SCALE = 28'
 PLOT DATE = 3/18/2009

REVISOR: _____
 REVISION: _____
 CHECKED = MUT
 DATE = _____

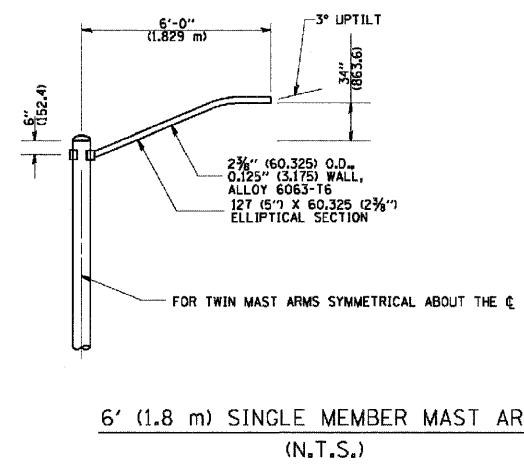
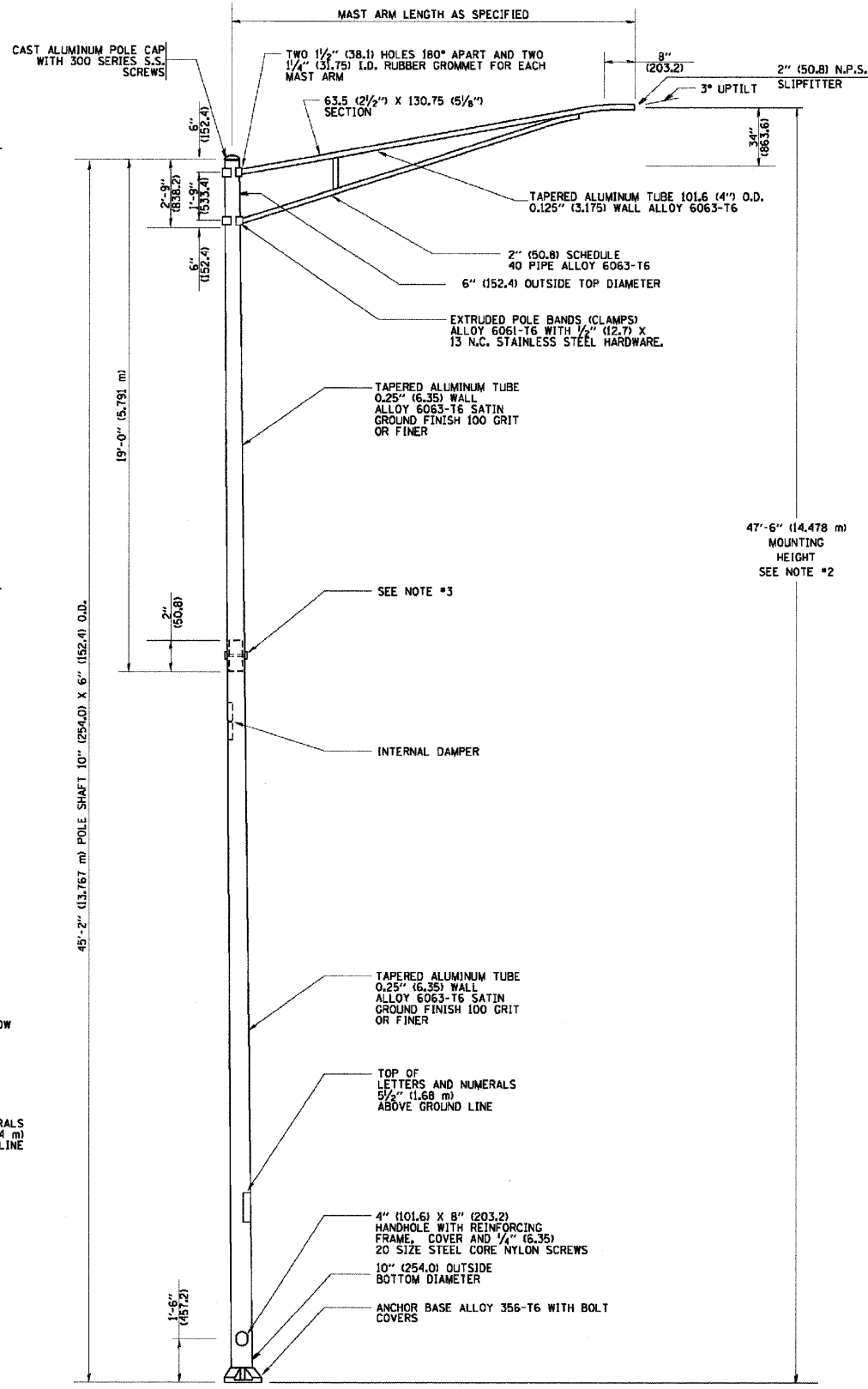
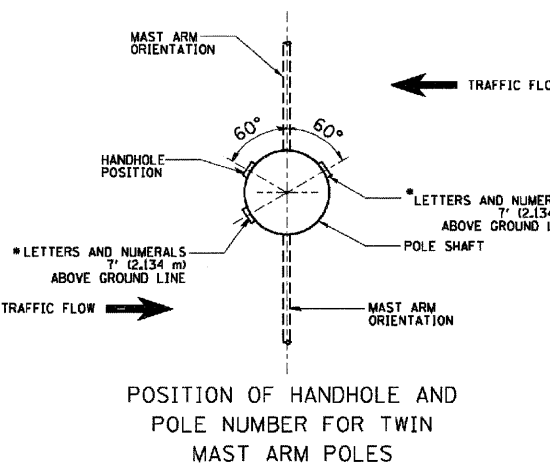
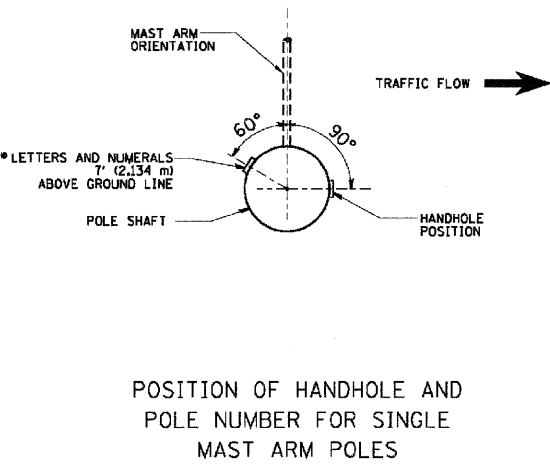
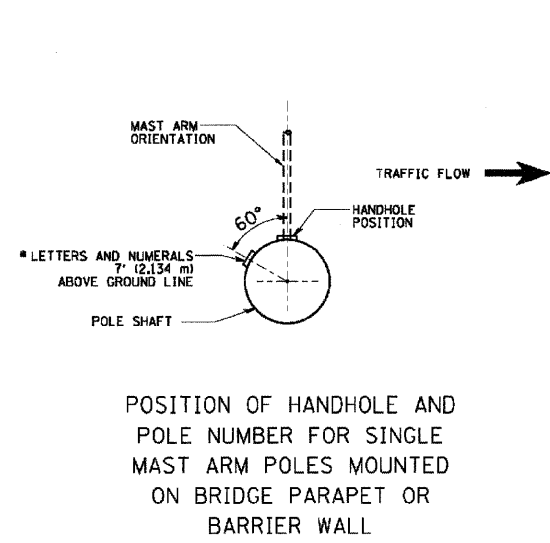
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION OFFSET
 40' (12.192 m) TO 47 1/2' (14.478 m) M.H.
 15" (381 mm) BOLT CIRCLE
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

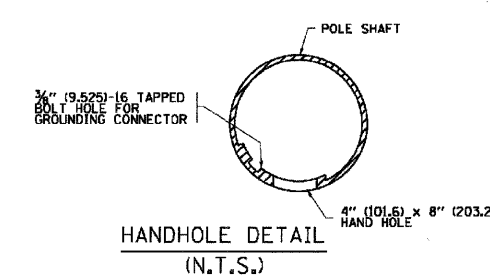
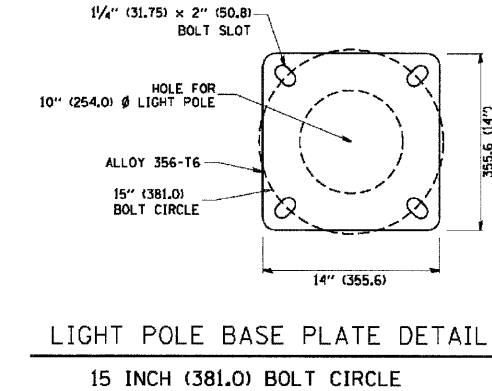
F.A.U. SECTION COUNTY TOTAL SHEETS SHEET NO.
 1321 2009-034 TS COOK 45 42
 CONTRACT NO. 60G39
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DATE	BY	DATE	BY
FILE NAME	USER NAME	DESIGNED	REVISED
...Trafico\LIT_de08-be408.dgn	FPACIONE	ABR	-
PROFILE	CHECKED	DRAWN	REVISED
	BJA	FPB / FCP	-
NOTE BOOK	STRUCTURE	CHECKED	REVISED
	NOTATIONS	MJT	-
		DATE	REVISED
		3/18/2009	-

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 Rosemont, Illinois 60018
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- NOTES:
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 - MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 - TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 - THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 - THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, TAB SP4DL OR APPROVED EQUAL.
 - LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 - LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 - LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

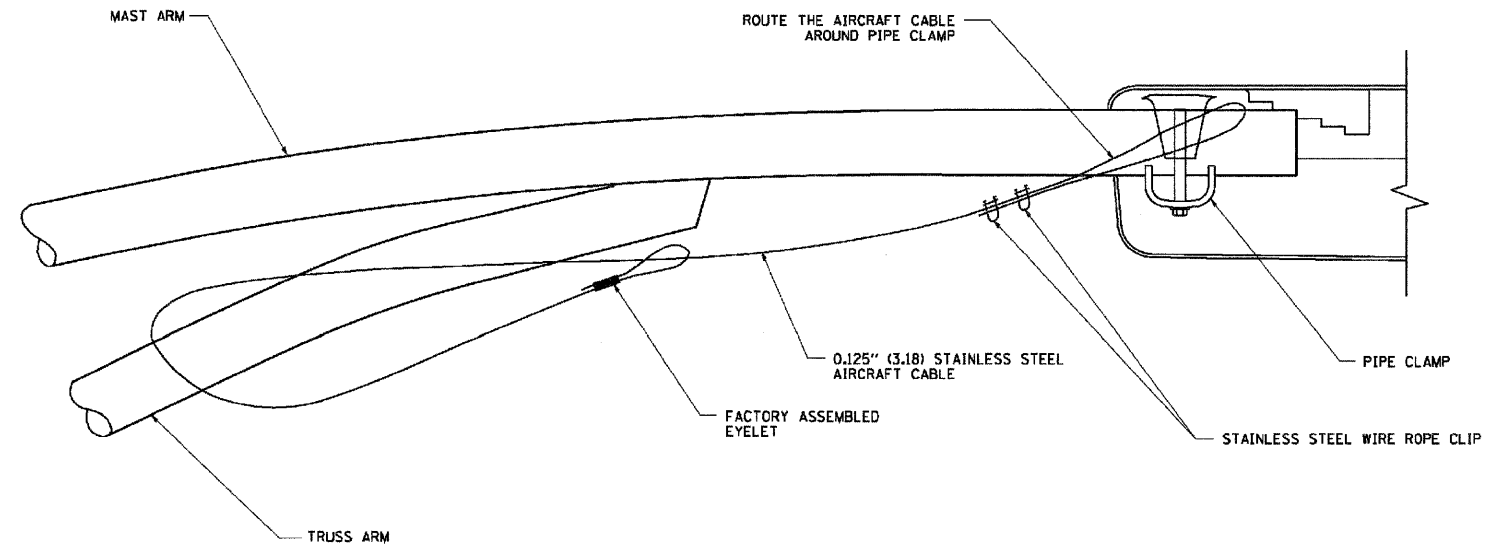


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...Trafico\LIT_de08-be408.dgn		DRAWN = FPB / FCP	REVISED =			1321	2009-034 TS	COOK	45	43	
		CHECKED = MJT	REVISED =			CONTRACT NO. 60G39					
		DATE = 3/18/2009	REVISED =			SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

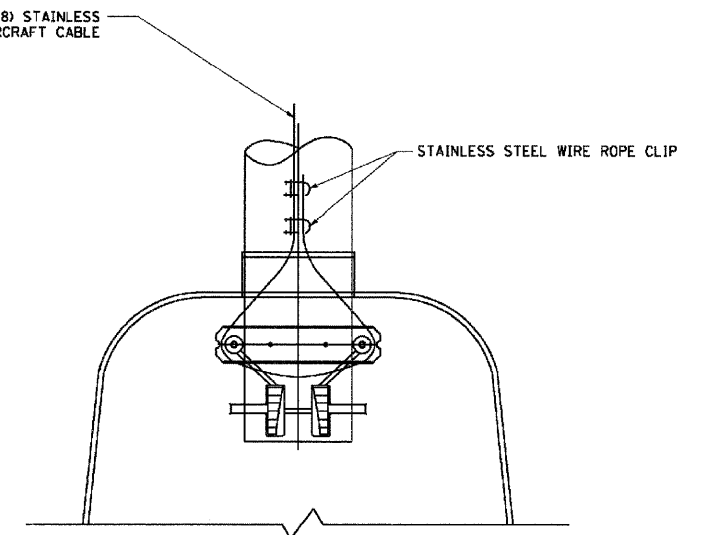
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY

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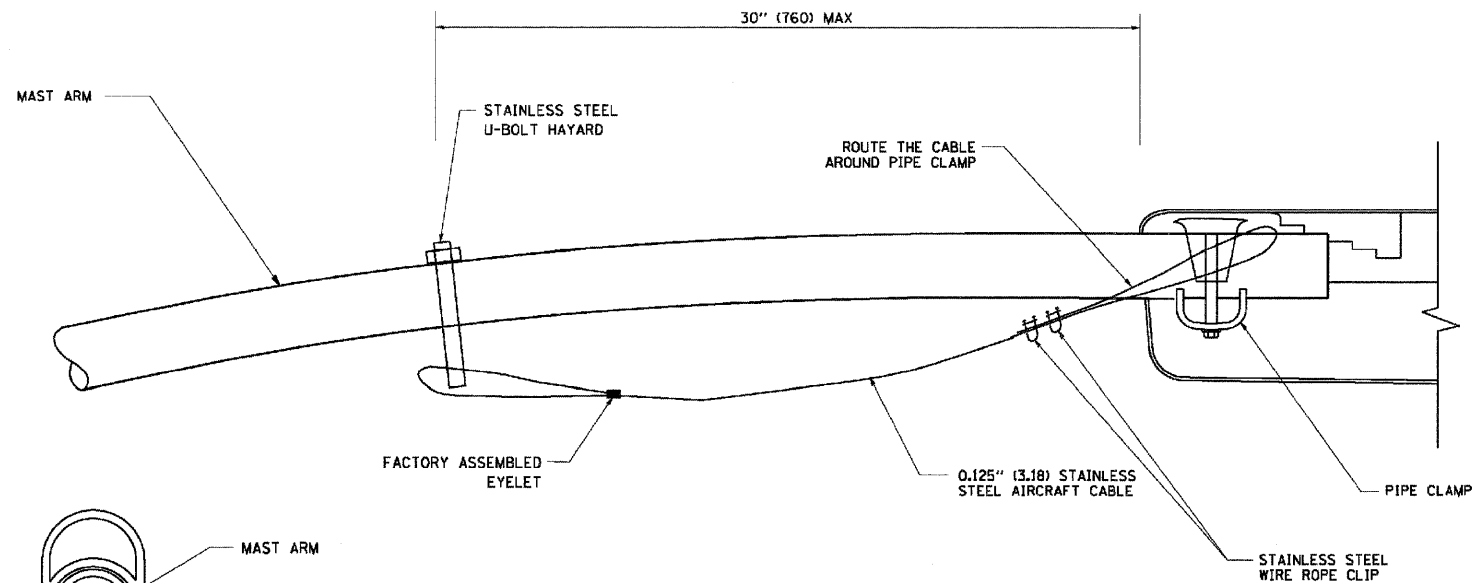
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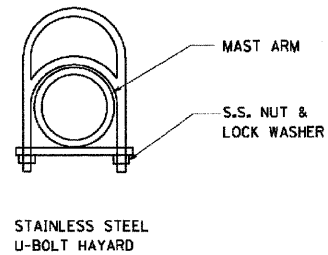
SIDE VIEW (TRUSS ARM)
 N.T.S.



BOTTOM VIEW
 N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
 N.T.S.



STAINLESS STEEL U-BOLT HAYARD

NOTES:

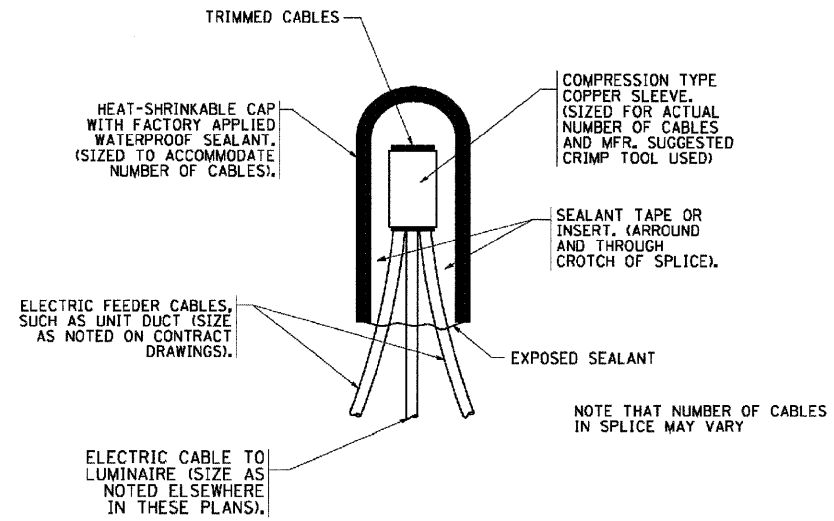
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME = ...Traffic\LIT.dwg	USER NAME = FPACONE	DESIGNED - ABR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY	F.A.U. RTE. 1321	SECTION 2009-034 TS	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 44	
PLOT SCALE = 28"	DRAWN - FPB / FCP	CHECKED - MJT	REVISED -			SCALE: N.T.S.	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 3/18/2009	DATE -	REVISED -	REVISED -			CONTRACT NO. 60G39					

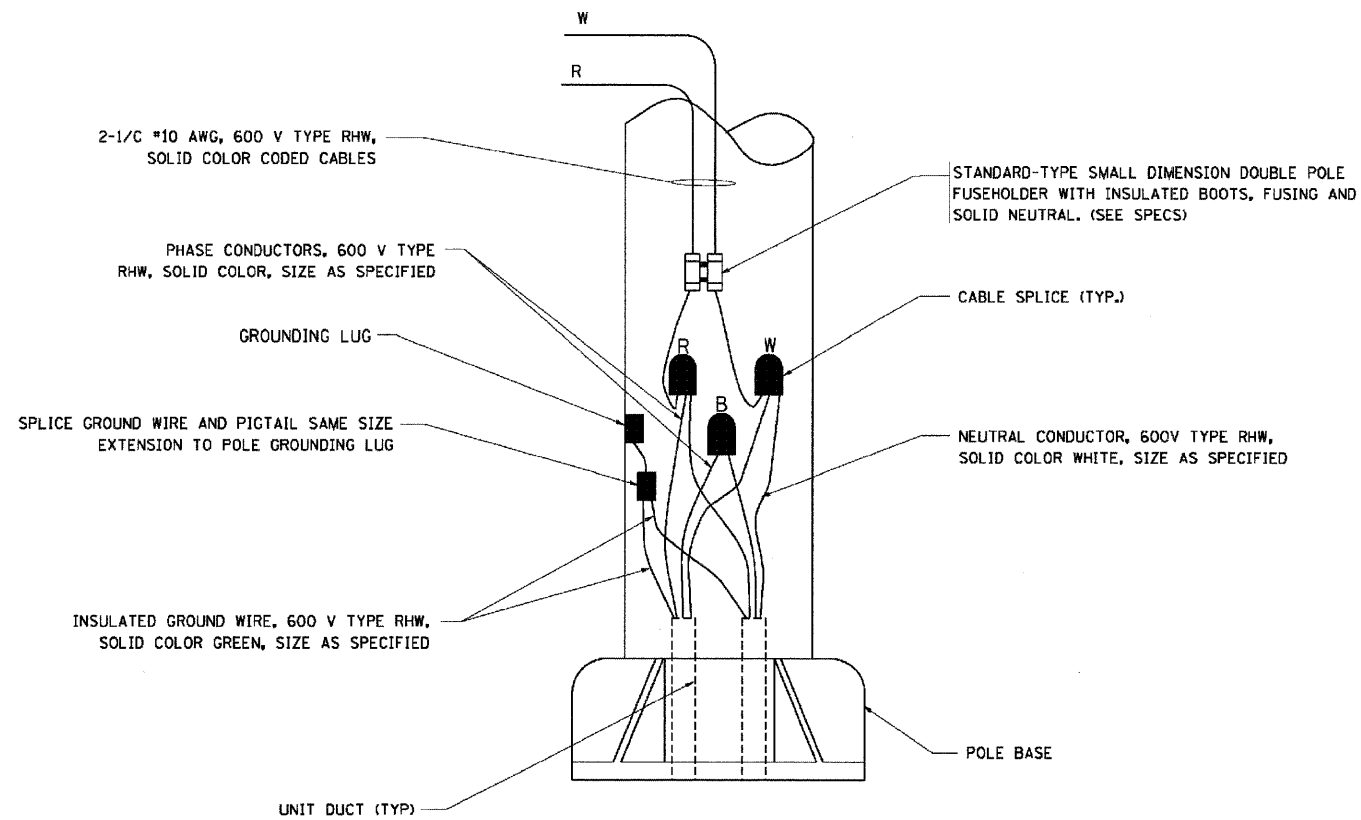
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SURVEYED		SURVEYED	
PLOT FILED		PLOT FILED	
NOTE BOOK		NOTE BOOK	
NO.		NO.	
DATE		DATE	
STRUCTURE		STRUCTURE	
NOTATION		NOTATION	
DPRD		DPRD	

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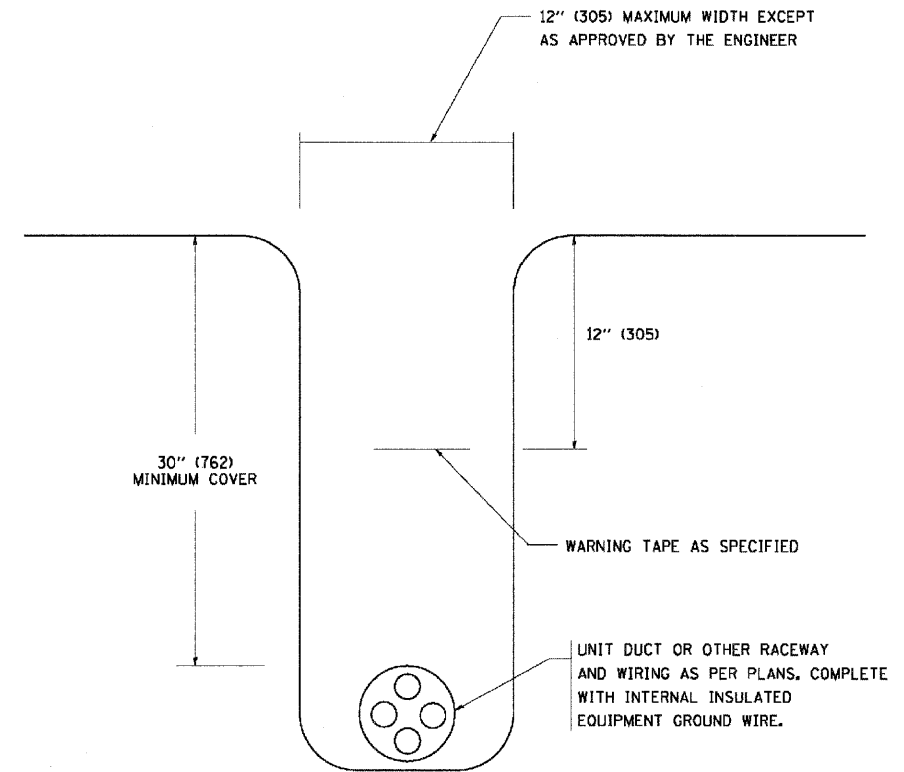
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TYPICAL SPLICE DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

FILE NAME =
...Traffic\LIT_detailed-ba792.dgn

USER NAME = FPAICONE
PLOT SCALE = 20'
PLOT DATE = 3/18/2009

DESIGNED - ABR
DRAWN - FPB / FCP
CHECKED - MUT
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS
SHEET A**

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	2009-034 TS	COOK	45	45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G39	