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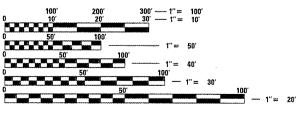
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INDEX OF SHEETS 06-15-12 LETTING ITEM 143 SUMMARY OF QUANTITIES DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS TRAFFIC SIGNAL MODIFICATION PLAN U.S. ROUTE 12 /20 (95TH STREET) AT IL ROUTE 50 (CICERO AVENUE) SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM U.S. ROUTE 12 /20 (95TH STREET) AT IL ROUTE 50 (CICERO AVENUE) TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM U.S. ROUTE 12 /20 (95TH STREET) AT KOSTNER AVENUE TRAFFIC SIGNAL INSTALLATION PLAN U.S. ROUTE 12 /20 (95TH STREET) AT KOSTNER AVENUE SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM TEMPORARY INTERCONNECT SCHEMATIC INTERCONNECT PLAN U.S. ROUTE 12 /20 (95TH STREET) INTERCONNECT SCHEMATIC U.S. ROUTE 12 /20 (95TH STREET) MAST ARM MOUNTED STREET NAME SIGNS ARTERIAL BOAD INFORMATION SIGN (TC-22) **IDOT STANDARDS:**

OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE OFF-ROAD OPERATIONS, ZL. ZW. 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE URBAN LANE CLOSURE MULTILANE. ZW WITH MOUNTABLE MEDIAN URBAN LANE CLOSURE MULTILANE INTERSECTION TRAFFIC CONTROL DEVICES SIGN PANEL MOUNTING DETAILS HANDHOLES DOUBLE HANDHOLES DOUBLE HANDHOLES
STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
DETECTOR LOOP INSTALLATION
UNINTERRUPTABLE POWER SUPPLY (UPS)
STEEL MAST ARM ASSEMBLY AND POLE 16'THROUGH 55'
STEEL COMB. MAST ARM ASSEMBLY AND POLE 16'THROUGH 55'
CONCRETE FOUNDATION DETAILS
SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
TRACETIC STAND MOUNTED.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

CONTRACT NO. 60T81

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

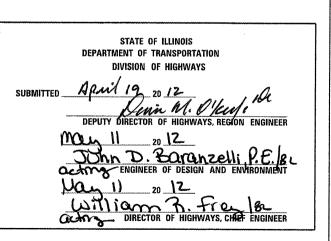
DISTRICT 1 HIGHWAY SAFETY IMPROVEMENT PROJECT U.S. ROUTE 12 /20 (95TH STREET) AT IL ROUTE 50 (CICERO AVENUE) AND KOSTNER AVENUE F.A.P. ROUTE 029 / U.S. ROUTE 12 /20 (95TH STREET) **COOK COUNTY SECTION 2012–028 TS** C - 91 - 448 - 12

PROJECT: H5IP-0029(115) U.S. 12 /20 W. 93th St CICERO AVENUE OAK LAWN W. 95th St. U.S. 12 /20 W. 96th St. KOSTNER AVENUE P. TALON W. 97th St SHAME P. TALA W. 97th St. W. 98th St. R. 13 E LOCATION MAP



SECTION 029 2012-028 TS COOK 26 ILLINOIS CONTRACT NO. 60T81





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 (HEREINAFTER REFERED TO AS THE "STANDARD SPECIFICATIONS"); THE LATEST "SUPPLEMENTAL SPECIFICATIONS" AND "RECURRING SPECIAL PROVISIONS"; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2. ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- 3. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) AT LEAST 10 DAYS PRIOR TO CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. ALL UTILITIES MUST BE NOTIFIED AND STAKED PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.
- 5. THE CONTRACTOR IS REQUIRED TO ATTEND AN ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) PRECONSTRUCTION MEETING AND SHALL INFORM THE IDOT TRAFFIC ENGINEER BEFORE WORK COMMENCES.
- 6. THE CONTRACTOR SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING SAFE AND HEALTHFUL CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 9. THE TRAFFIC CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.
- 10. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND 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 THE STANDARD SPECIFICATIONS 252 AND 250, RESPECTIVELY.
- 11. CONTROLLER CABINETS SHALL BE PLACED SO THAT d) THE DOORS OPEN AWAY FROM THE CURB OR TRAVEL WAY., b) AND THE TRAFFIC MOVEMENTS AT THE INTERSECTION ARE VISIBLE FROM THE CONTROLLER.
- 12. ANY CONTROLLER CABINET WHETHER NEW OR EXISTING TO RECEIVE UPS, WILL HAVE A "L" SHAPED 4 FOOT CONCRETE MAINTENANCE PAD INSTALLED. SEE PLANS FOR DETAIL. THE COST OF INSTALLATION OF CONCRETE PAD IS INCIDENTAL TO NEW CONTROLLER AND OR UPS INSTALLATIONS.
- 14. RED LIGHT ENFORCEMENT CAMERAS EXIST AT THE INTERSECTION OF 95TH STREET AND CICERO AVENUE. THE CONTRACTOR SHALL NOTIFY REDFLEX TRAFFIC SYSTEMS AT (773) 633-5807, NOT LESS THAN 72 HOURS PRIOR TO START OF CONSTRUCTION. REDFLEX WILL BE SOLELY RESPONSIBLE FOR RECONNECTING THEIR EQUIPMENT TO THE NEW SIGNAL CONTROLLER, AFTER COMPLETION OF THIS CONTRACT.
- 15. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL ENGINEERING FIRM TO CONTINUOUSLY MONITOR FOR WORKER SAFETY AND SOIL CONTAMINATION AT SEVERAL AREAS. SEE SPECIAL PROVISION AND SUPPLEMENTAL SPECIFICATIONS FOR DETAILS.

Chra.

CEMCON, Ltd.

Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle. Suite 100 Aurora. Illinois 60504-9675 Ph: 630,862.2100 Fax: 630.862.2199 E-Woll: coddecemon.com Websile: www.cemcon.c.

FILE NAME =	USER NAME = JGC	DESIGNED -	BPT	REVISED -	
\MICROST\352098\ 02-GENNOTES.OGN		DRAWN -	JGC	REVISED -	ı
	PLOT SCALE = NONE	CHECKED -	BPT	REVISED -	
	PLOT DATE = 10-21-11	DATE -	10-21-11	REVISED -	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
U.S. ROUTE 12 /20 (95TH STREET)
AT IL ROUTE 50 (CICERO AVENUE) AND KOSTNER AVENUE

SCALE: N.Y.S. | SHEET NO. OF | SHEETS | STA. TO STA.

				05TH 6T 4T 010FD0 4V5	CONSTRUCTION CODE	
				95TH ST AT CICERO AVE 90% FED	95TH ST AT KOSTNER AVE 90% FED	
			·	10% STATE	10% STATE	
CODE	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS	TRAFFIC SIGNALS	
NO.	TIEM	LONTI	QUANTITY	0021 URBAN	0021 URBAN	
				ONDAN	URDAN	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	722	400	322	
42400800	DETECTABLE WARNINGS	SQ FT	176	96	80	***************************************
44000600	SIDEWALK REMOVAL	SQ FT	722	400	322	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	35		35	
66900450	SPECIAL WASTE DIANS AND DEPOPTS	l Cini	1			
06400450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1		1	
66900530	SOIL DISPOSAL ANALYSIS	EACH	4		4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3	
67100100	MOBILIZATION	L SUM	1	0.5	0. 5	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.5	0.5	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5	0.5	
72000100	SIGN PANEL - TYPE 1	SQ FT	40	40		······································
. 2220100	· · · · · · · · · · · · · · · · · · ·					
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	40	40		
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	22. 2	22. 2		
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	27		27	•
	* SPECIALTY ITEMS					

* SPECIALIT I

FILE NAME =	USER NAME = JGC	DESIGNED -	BL 1	HEATZED .		l
\MICROST\352098\ 03-SUMMARY.DGN		DRAWN -	JGC	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = NONE	CHECKED -	BPT	REVISED -	DEPARTMENT OF TRANSPORTATION	
	PLOT DATE = 10-21-11	DATE -	10-21-11	REVISED -		SCALE: N.T.S.

	SU	MMARY	OF QU	ANTITIE	S	F.A.P. RTE.	SECT	TION	COUNTY	TOTAL SHEETS	SHEET NO.
		(SHF	ET 1 OF	6)		029	2012-0	28 TS	соок	26	3
									CONTRACT	NO.	50T81
ALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FEO. RO		ILLINOIS FED. A	ID PROJECT	THE PART OF THE PART OF THE	

					CONSTRUCTION CODE	
				95TH ST AT CICERO AVE	95TH ST AT KOSTNER AVE	
				90% FED 10% STATE	90% FED 10% STATE	
CODE			TOTAL	TRAFFIC SIGNALS	TRAFFIC SIGNALS	
NO.	ITEM	TINU	TOTAL QUANTITY	0021	0021	
110.			QUANTITY	URBAN	URBAN	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	152		152	
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	9		9	
01000010	SIDELIOIOSID CONDUIT, CALVANIZED STEEL, 2 1/2 DIA.	7 001	J		5	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	48		4.0	
01020220	SINDLINGING CONDUTT, GALVANIZED STEEL, J DIA.	7001	40		48	
91029240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	776		776	
01020240		1001	376		376	
91400100	HANDHOLE	54011	^			
01400100	HANDHOLE	EACH	2		2	
01.400000	UEANY DUTY HANDIOLE	5.00				
81400200	HEAVY-DUTY HANDHOLE	EACH	1		1	
81400300	DOUBLE HANDHOLE	EACH	2		2	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1		
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2	1	1	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1152		1152	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3008	927	2081	
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2406	934	1472	**************************************
0770.077						
81301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1779		1779	
07301705	SISCIDIC CADIS IN CONDUIT ISAD IN NO. 14 1 DATE	5007	1740		1746	
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1746		1746	
	* SPECIALTY ITEMS					

* SPECIALTY ITEMS

* * 100% VILLAGE OF OAK LAWN

	FILE NAME :	USER NAME = JGC	DESIGNED - BPT	REVISED -		SUMMARY OF QUANTITIES	F.A.P.	SECTION	COUNTY	SHEETS NO.
1	\MICROST\352098\ 03-SUMMARY.DGN		DRAWN - JGC	REVISED -	STATE OF ILLINOIS	1	029	2012-028 TS	соок	26 4
1		PLOT SCALE - NONE	CHECKED - BPT	REVISED -	DEPARTMENT OF TRANSPORTATION	(SHEET 2 OF 6)				T NO. 60T81
		PLOT DATE = 10-21-11	DATE - 10-21-11	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A		
ı		PLUI DATE : 10-21-11	DATE - 10-21-11	HEAIZED -		SCALE: N.1.S. SHEET NO. OF SHEETS STA. 10 STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A	ID PROJECT	

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					CONSTRUCTION CODE	
				95TH ST AT CICERO AVE	95TH ST AT KOSTNER AVE	
				90% FED	90% FED	
			T	10% STATE	10% STATE	
CODE	TTCL		TOTAL	TRAFFIC SIGNALS	TRAFFIC SIGNALS	
NO.	ITEM	UNIT	QUANTITY	0021	0021	
			30/11/211	URBAN	URBAN	
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	118		118	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 IC	FOOT	441		441	
			, , , , , , , , , , , , , , , , , , , ,			***************************************
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	3	3		
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2	1	1	
			-	•		
87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1		1	VIII
			-		•	
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		1	
			-			
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1		1	
					•	
87700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1		1	***************************************
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	4		4	
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27		27	
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28		28	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	12	4	8	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3		3	

CONSTRUCTION CODE

* SPECIALTY ITEMS

* * 100% VILLAGE OF OAK LAWN

FILE NAME :	USER NAME = JGC	DESIGNED - BPT	REVISED -		SUMMARY OF QUANTITIES	F.A.P. SECTION	COUNTY TOTAL SHEE
\MICROST\352098\ 03-SUMMARY.DGN		DRAWN - JGC	REVISED -	STATE OF ILLINOIS		029 2012-028 TS	COOK 26 5
	PLOT SCALE = NONE	CHECKED - BPT	REVISED -	DEPARTMENT OF TRANSPORTATION	(SHEET 3 OF 6)	2012 020 13	CONTRACT NO. 60T81
	PLGT DATE : 10-21-11	DATE - 10-21-11	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. A	

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				95TH ST AT CICERO AVE	95TH ST AT KOSTNER AVE	**************************************
				90% FED	90% FED	
	T	1		10% STATE	10% STATE	
CODE	ITEM	UNIT	TOTAL	TRAFFIC SIGNALS	TRAFFIC SIGNALS	
NO.	I I CWI	UNII	QUANTITY	0021	0021	~~~~
				URBAN	URBAN	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		5	
88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1	
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		4	•

88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	17	4	13	
88500100	INDUCTIVE LOOP DETECTOR	EACH	22	13	9	
						W - Attack
88600100	DETECTOR LOOP, TYPE I	F00T	516	-	516	
88700200	·	EACH	6	4	2	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	2	1	1	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	16	8	8	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	1	1		
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1010		1010	
	NEMOTE ELECTRIC CADE I NOW CONDUIT	F 001	1019		1019	
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	715		715	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	1	1	

FILE NAME =

\MICROST\352098\ 03-SUMMARY.DGN

USER NAME = JGC

PLOT SCALE : NONE

PLOT DATE = 10-21-11

DESIGNED - BPT REVISED -DRAWN - JGC
CHECKED - BPT
DATE - 10-21-11 REVISED -REVISED

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 4 OF 6) SCALE: N.T.S. SHEET NO. OF SHEETS STA.

CONSTRUCTION CODE

TO STA.

| | 03-SUMMARY.dgn 4/17/2012 1:41:27 PM User∞pociechal

ITEM EXISTING HANDHOLE EXISTING DOUBLE HANDHOLE EXISTING CONCRETE FOUNDATION FUATED CONTROLLER AND TYPE IV CABINET, SPECIAL FUATED CONTROLLER AND TYPE V CABINET, SPECIAL EXECUTED CONTROLLER AND TYPE V CABINET, SPECIAL EXECUTED CONTROLLER AND TYPE V CABINET, SPECIAL EXECUTED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH EACH EACH EACH FOOT	TOTAL QUANTITY 3 1 5 1 2	95TH ST AT CICERO AVE 90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN	95TH ST AT KOSTNER AVE 90% FED 10% STATE TRAFFIC SIGNALS 0021 URBAN 1	
EXISTING DOUBLE HANDHOLE EXISTING CONCRETE FOUNDATION TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH EACH EACH EACH	3 1 5 1 2	10% STATE TRAFFIC SIGNALS 0021 URBAN	10% STATE TRAFFIC SIGNALS 0021 URBAN 3 1	
EXISTING DOUBLE HANDHOLE EXISTING CONCRETE FOUNDATION TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH EACH EACH EACH	3 1 5 1 2	TRAFFIC SIGNALS 0021 URBAN	TRAFFIC SIGNALS 0021 URBAN 3 1	
EXISTING DOUBLE HANDHOLE EXISTING CONCRETE FOUNDATION TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH EACH EACH EACH	3 1 5 1 2	OO21 URBAN	0021 URBAN 3 1 1	
EXISTING DOUBLE HANDHOLE EXISTING CONCRETE FOUNDATION TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH EACH EACH EACH	3 1 5 1	URBAN 1	1 5 1	
EXISTING DOUBLE HANDHOLE EXISTING CONCRETE FOUNDATION TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH EACH EACH EACH	1 1 2	1	5	
EXISTING DOUBLE HANDHOLE EXISTING CONCRETE FOUNDATION TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH EACH EACH EACH	1 1 2		5	
EXISTING DOUBLE HANDHOLE EXISTING CONCRETE FOUNDATION TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH EACH EACH EACH	1 1 2		5	
TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH . EACH	1 1 2		1	
TUATED CONTROLLER AND TYPE IV CABINET, SPECIAL TUATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH EACH	1 2		1	
UATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH	2			
UATED CONTROLLER AND TYPE V CABINET, SPECIAL RUPTABLE POWER SUPPLY, SPECIAL	EACH	2			
RUPTABLE POWER SUPPLY, SPECIAL	EACH	2		1	
			1	1	
			1	1	
CABLE IN CONDUIT NO. 20 3/C. TWISTED, SHIELDED	FOOT				
CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	1001	239		239	
		233		523	
EAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	EACH	1	1		
IEAD, LED. 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	11	11		
HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	1	1		
HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	3	3		
AN SIGNAL HEAD, LED. 1-FACE, BRACKET MOUNTED, RETROETT	EACH	8	8		
The second secon		<u> </u>			
EXISTING MASTER CONTROLLER	EACH	2	2		
RY INFORMATION SIGNING	SQ FT	51.4	25. 7	25. 7	
	EAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT AN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT	EAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT AN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT EXISTING MASTER CONTROLLER EACH	EAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT AN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT EACH 8 EXISTING MASTER CONTROLLER EACH 2	EAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EACH 3 AN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT EACH 8 EXISTING MASTER CONTROLLER EACH 2 2	EAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EACH 3 3 3 AN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT EXISTING MASTER CONTROLLER EACH 2 2

\M1CROST\352098\ 03-SUMMARY.DGN

USER NAME = JGC

PLOT SCALE = NONE

PLOT DATE = 10-21-11

DATE

- 10-21-11

FILE NAME :

 DESIGNED BPT
 REVISED

 DRAWN JGC
 REVISED

 CHECKED BPT
 REVISED

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

TO STA.

CONSTRUCTION CODE

| | 03-SUMMARY.dgn 4/17/2012 1:41:42 PM User≍pociechal

95TH ST AT CICERO AVE | 95TH ST AT KOSTNER AVE 90% FED 10% STATE 90% FED 10% STATE TRAFFIC SIGNALS TRAFFIC SIGNALS CODE TOTAL ITEM UNIT 0021 0021 NO. QUANTITY URBAN URBAN Z0033044 RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1 EACH 2 Z0073510 TEMPORARY TRAFFIC SIGNAL TIMING EACH 1 1 * * 89100400 ILLUMINATED SIGN, LED EACH 4 * SPECIALTY ITEMS * * 100% VILLAGE OF OAK LAWN

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION CODE

SUMMARY OF QUANTITIES

(SHEET 6 OF 6)

TO STA.

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

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FILE NAME =

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USER NAME = JGC

PLOT SCALE : NONE

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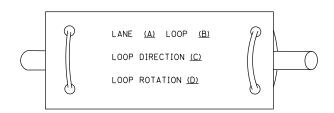
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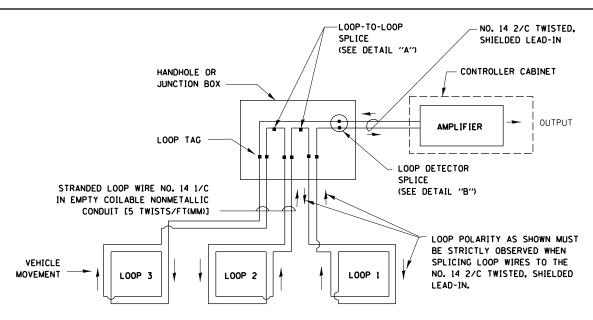
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT I SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

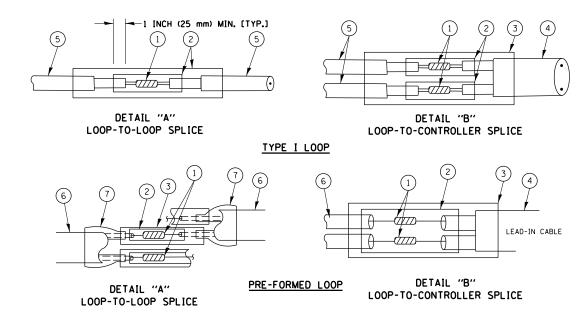


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP "1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



LOOP DETECTOR SPLICE

- $\begin{tabular}{ll} \hline \end{tabular}$ Western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP

SCALE: NONE

7 BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

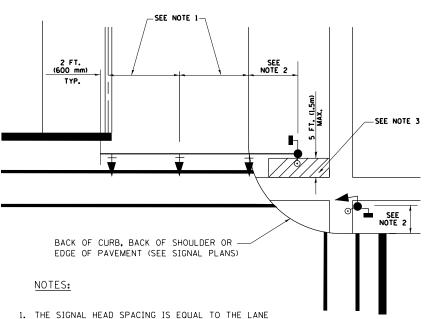
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c:\pw_work\pwidot\pociechal\d0306632\04 DISTRICT 1 - STD 1.dgn DRAWN	-	BCK	REVISED -
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PLOT DATE = 4/17/2012 DATE	-	10-28-09	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	029	2012-028 TS	соок	26	9
STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT	NO.	60T8
SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. RO	OAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

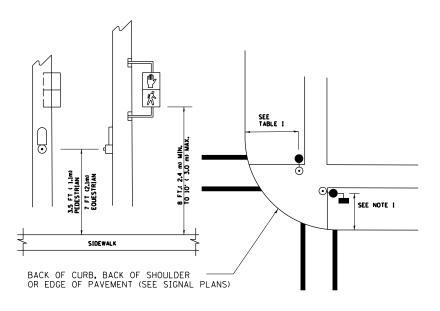
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



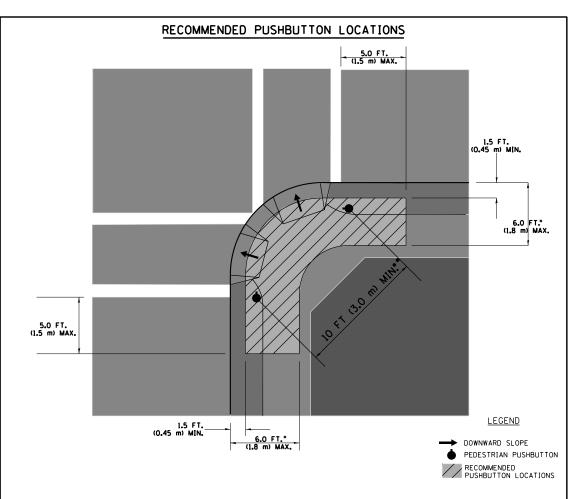
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN. 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.

PEDESTRIAN SIGNAL POST PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- •• WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

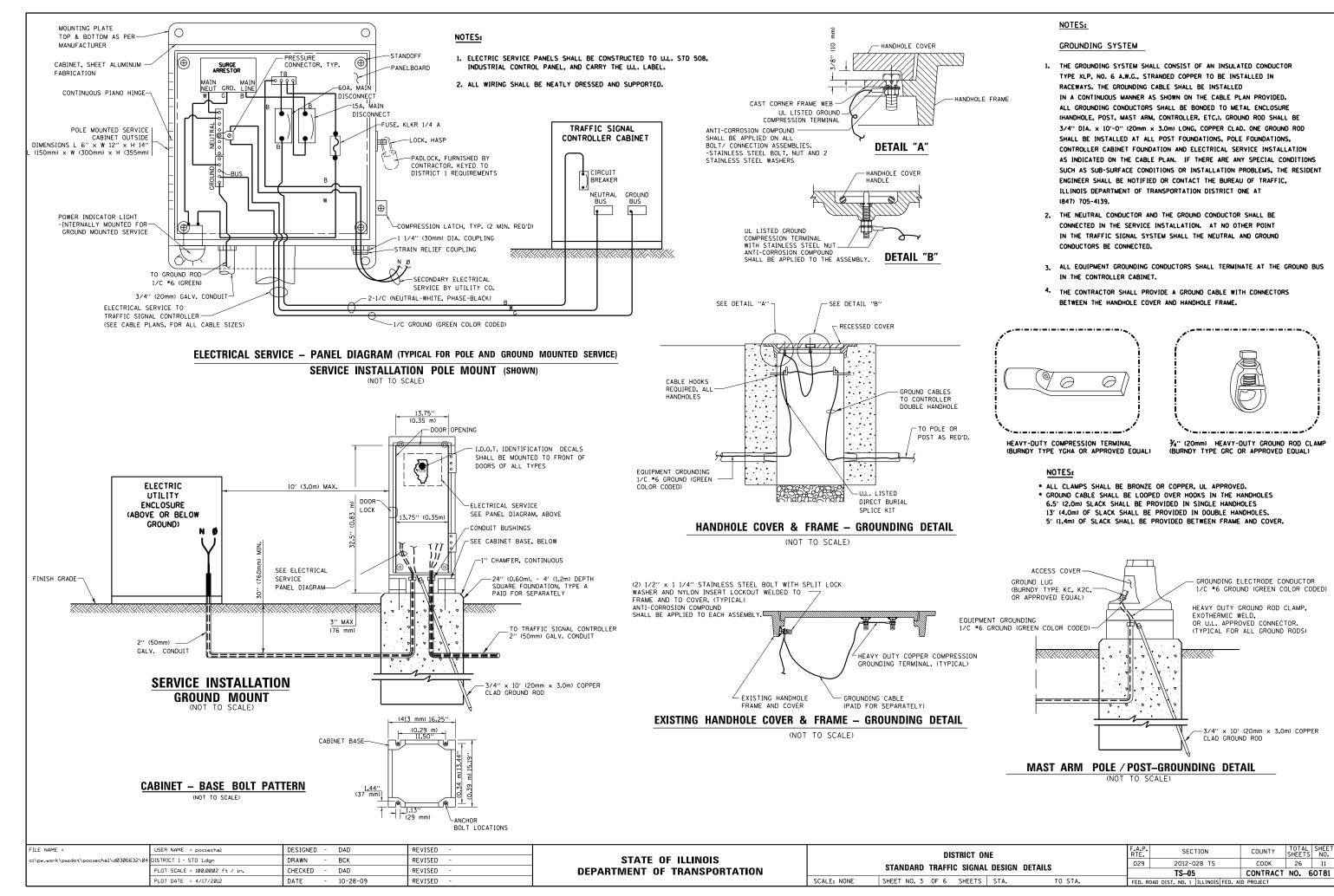
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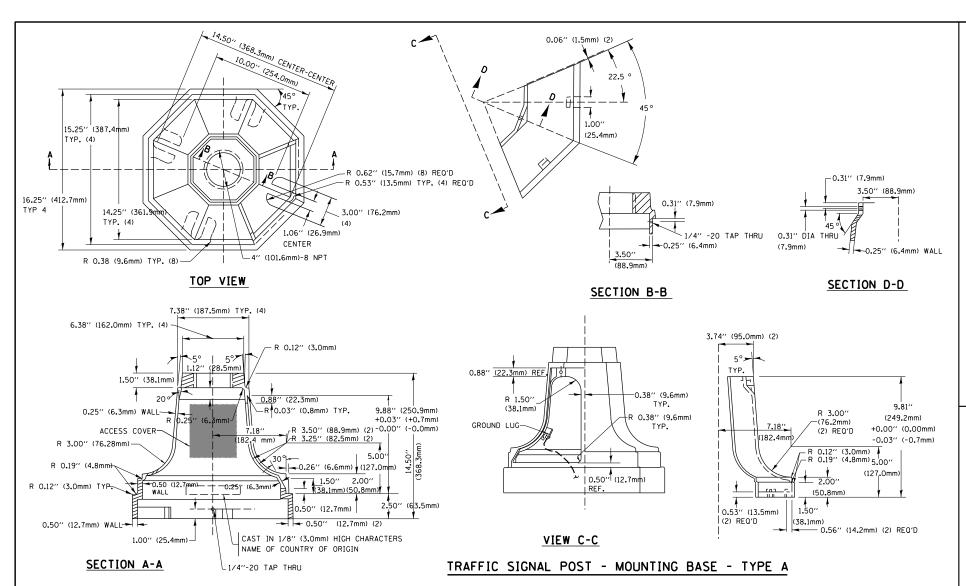
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

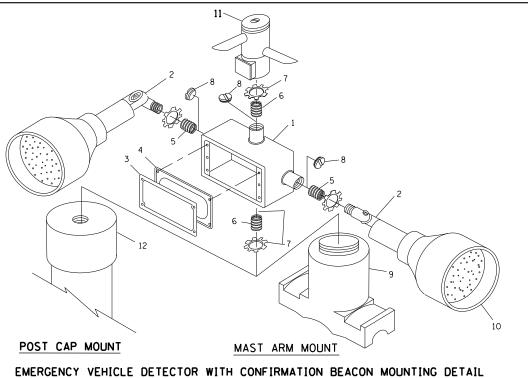
SECTION COUNTY DISTRICT ONE 029 2012-028 TS COOK STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-05 CONTRACT NO. 60T81 SHEET NO. 2 OF 6 SHEETS STA. SCALE: NONE

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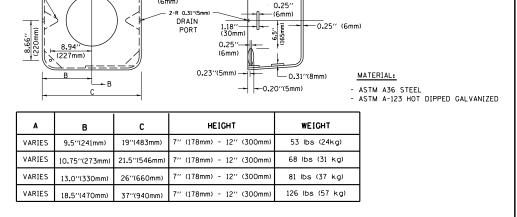
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ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV, 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾′′(19 mm) CLOSE NIPPLE
7	¾′′(19 mm) LOCKNUT
8	¾′′(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 34"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**



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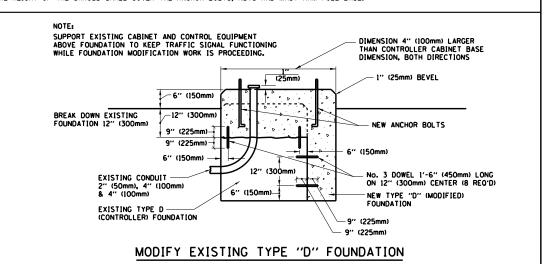
SHROUD

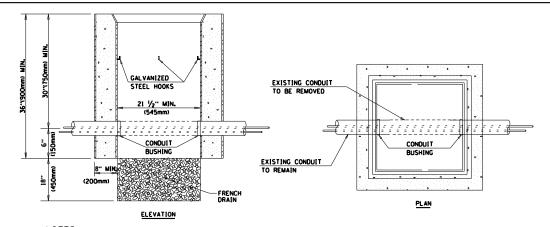
(12mm)

- 1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.

R2.95" (75mm)

3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.





- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

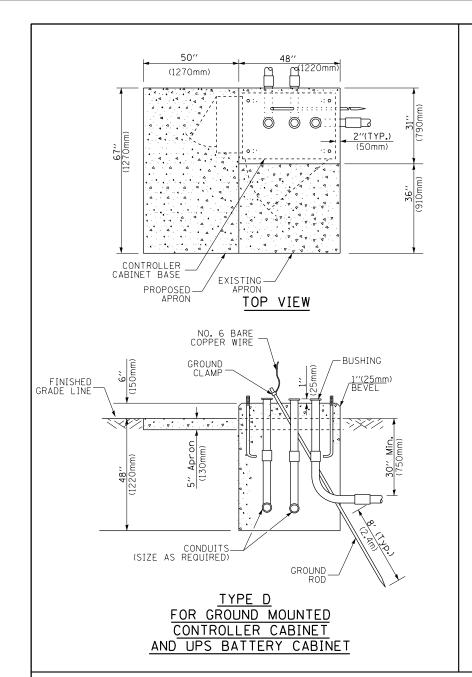
HANDHOLE TO INTERCEPT EXISTING CONDUIT

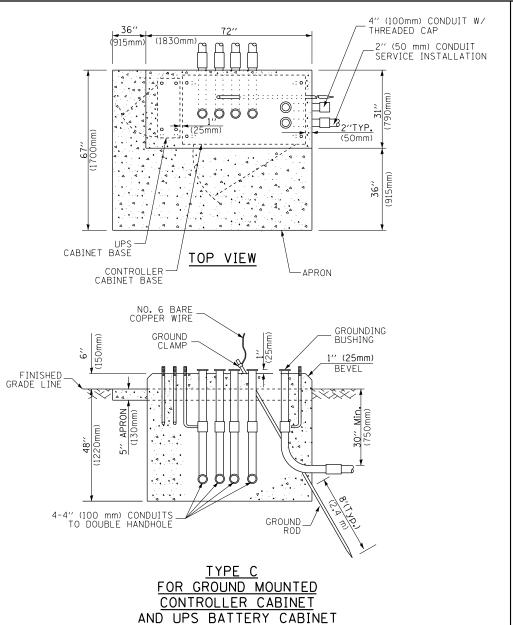
COUNTY DISTRICT ONE 029 2012-028 TS COOK 26 12 STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-05 CONTRACT NO. 60T81 SCALE: NONE SHEET NO. 4 OF 6 SHEETS STA.

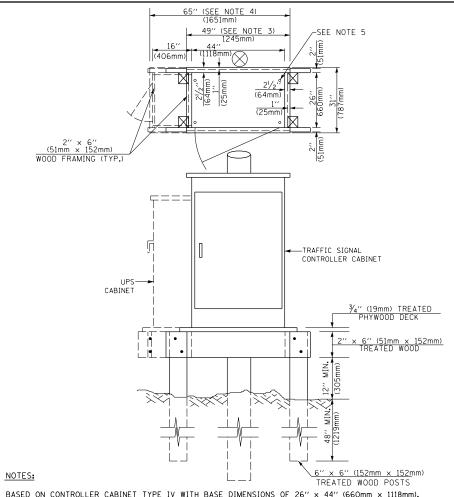
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DISTRICT 1 - STD 1.dan







- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

	6.0	2.0				
TROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0				
				DEPTH	OF	FOUND!
0.5						

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0'' (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0'' (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0'' (1.2m)

ATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30'' (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7 . 6 m)	42'' (1060mm)	36" (900mm)	16	8(25)

NOTES:

- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (0u) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm diameter foundations.
- 4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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		PLOT SCALE = 100.0002 ft / in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDA	ARD TRAFFIC SIGNAL DESIGN DETAILS		TS-05	CONTRACT NO.	. 60T81
		PLOT DATE = 4/17/2012	DATE - 10-28-09	REVISED -		SCALE: NONE SHEET NO.	. 5 OF 6 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A		

-DISTRICT 1 - STD 1.dgn 4/17/2012 9:25:53 AM User=pociech

TRAFFIC SIGNAL LEGEND ITEM REMOVAL EXISTING PROPOSED ITEM REMOVAL EXISTING PROPOSED ITEM REMOVAL EXISTING PROPOSED \mathbb{R}_{\swarrow} ELECTRIC CABLE IN CONDUIT, TRACER, **≪** • CONTROLLER CABINET \boxtimes ightharpoonsEMERGENCY VEHICLE LIGHT DETECTOR \bowtie NO. 14 1/C, UNLESS NOTED OTHERWISE R_{o-0} 0—(] RAILROAD CONTROL CABINET **R**►<**R** CONFIRMATION BEACON • COAXIAL CABLE ECC CC COMMUNICATIONS CABINET СС $^{\mathsf{R}}$ HANDHOLE MASTER CONTROLLER EMC MC R H VENDOR CABLE FOR CAMERA H Н HEAVY DUTY HANDHOLE MASTER MASTER CONTROLLER EMMC MMC R COPPER INTERCONNECT CABLE, EUPS UPS UPS \square UNINTERRUPTIBLE POWER SUPPLY DOUBLE HANDHOLE NO. 18 3 PAIR TWISTED, SHIELDED R 0 • JUNCTION BOX SERVICE INSTALLATION. -D^P FIBER OPTIC CABLE -D-R ---(P) POLE OR (G) GROUND MOUNT GALVANIZED STEEL CONDUIT NO. 62.5/125, MM12F IN TRENCH (T) OR PUSHED (P) TELEPHONE CONNECTION P ` 🗇 FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT -24F)-TEMPORARY SPAN WIRE, TETHER WIRE, NO. 62.5/125, MM12F SM12F AND CABLE STEEL MAST ARM ASSEMBLY AND POLE FIBER OPTIC CABLE NO. 62.5/125, ALUMINUM MAST ARM ASSEMBLY AND POLE CT COMMON TRENCH (NUMBER OF FIBERS & TYPE TO BE $-\bigcirc$ NOTED ON PLANS) COILABLE NONMETALLIC CONDUIT (EMPTY) CNC STEEL COMBINATION MAST ARM 0-X-ASSEMBLY AND POLE WITH LUMINAIRE GROUND ROD AT (C) CONTROLLER, SYSTEM ITEM S (H) HANDHOLE, (P) POST, (M) MAST ARM, PIX STEEL COMBINATION MAST ARM OR (S) SERVICE INTERSECTION ITEM PTZ PT ASSEMBLY AND POLE WITH PTZ CAMERA CONTROLLER CABINET AND REMOVE ITEM 0 SIGNAL POST FOUNDATION TO BE REMOVED \bowtie RELOCATE ITEM TEMPORARY WOOD POLE (CLASS 5 OR \otimes $^{\mathsf{R}}\!\!\otimes\!$ BETTER) 45 FOOT (13.7m) MINIMUM STEEL MAST ARM POLE AND ABANDON ITEM FOUNDATION TO BE REMOVED R GUY WIRE 12" (300mm) TRAFFIC SIGNAL SECTION ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED SIGNAL HEAD \rightarrow -(R) 12" (300mm) RED WITH 8" (200mm) SIGNAL HEAD CONSTRUCTION STAGES YELLOW AND GREEN TRAFFIC SIGNAL FACE STEEL COMBINATION MAST ARM ASSEMBLY (NUMBERS INDICATE THE CONSTRUCTION STAGE) AND POLE WITH LUMINAIRE AND 7 R Y G ←Y ←G FOUNDATION TO BE REMOVED SIGNAL HEAD WITH BACKPLATE + SIGNAL POST AND FOUNDATION RMF SIGNAL HEAD OPTICALLY PROGRAMMED ->"P SIGNAL FACE TO BE REMOVED FLASHER INSTALLATION O-1⊃′′F′′ **●**→"F" INTERSECTION & SAMPLING O-D''F' (S DENOTES SOLAR POWER) IS IS (SYSTEM) DETECTOR R Y G **←**Y **←**G PEDESTRIAN SIGNAL HEAD -0 -S S SAMPLING (SYSTEM) DETECTOR SIGNAL FACE WITH BACKPLATE. PEDESTRIAN PUSHBUTTON DETECTOR 0 **(19)** "P" INDICATES PROGRAMMED HEAD EXISTING INTERSECTION LOOP DETECTOR ĹΡΙ PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR @ APS @APS EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ILLUMINATED SIGN 9 9 1 "NO LEFT TURN" OW W 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED INTERSECTION AND SAMPLING PIS WALK/DON'T WALK SYMBOL (SYSTEM) DETECTOR ILLUMINATED SIGN 8 \bigcirc "NO RIGHT TURN" 12" (300mm) PEDESTRIAN SIGNAL HEAD PSI PS PREFORMED SAMPLING (SYSTEM) DETECTOR INTERNATIONAL SYMBOL, OUTLINED DETECTOR LOOP, TYPE I 12" (300mm) PEDESTRIAN SIGNAL HEAD **RAILROAD SYMBOLS** Р INTERNATIONAL SYMBOL, SOLID PREFORMED DETECTOR LOOP PEDESTRIAN SIGNAL HEAD, INTERNATIONAL K M MICROWAVE VEHICLE SENSOR [M]M€ SYMBOL, WITH COUNTDOWN TIMER **EXISTING** PROPOSED VIDEO DETECTION CAMERA [V] [V]**V**• RAILROAD CONTROL CABINET $\widehat{\mathbb{R}} \searrow \widehat{\mathbb{R}}$ -----RADIO INTERCONNECT VIDEO DETECTION ZONE $X \circ \overline{X} = \overline{X} \cdot X$ RAILROAD CANTILEVER MAST ARM XOX RERR ERR RR RADIO REPEATER FLASHING SIGNAL $\times \circ \times$ XOX PT DENOTES NUMBER OF CONDUCTORS, ELECTRIC PAN, TILT, ZOOM CAMERA PT PI CABLE NO. 14, UNLESS NOTED OTHERWISE, CROSSING GATE X0X> XOX-ALL DETECTOR LOOP CABLE TO BE SHIELDED R(W)WIRELESS DETECTOR SENSOR (W) (W)CROSSBUCK \rightarrow \rightarrow GROUND CABLE IN CONDUIT WIRELESS ACCESS POINT

N4-DISTRICT 1 - STD 1.dgn 4/17/2012 9:26:09 AM User=pociechal

DAD

- 10-28-09

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DESIGNED - DAG/BCK

DRAWN - BCK

CHECKED

DATE

USER NAME = pociechal

PLOT DATE = 4/17/2012

PLOT SCALE = 100.0002 ft / in.

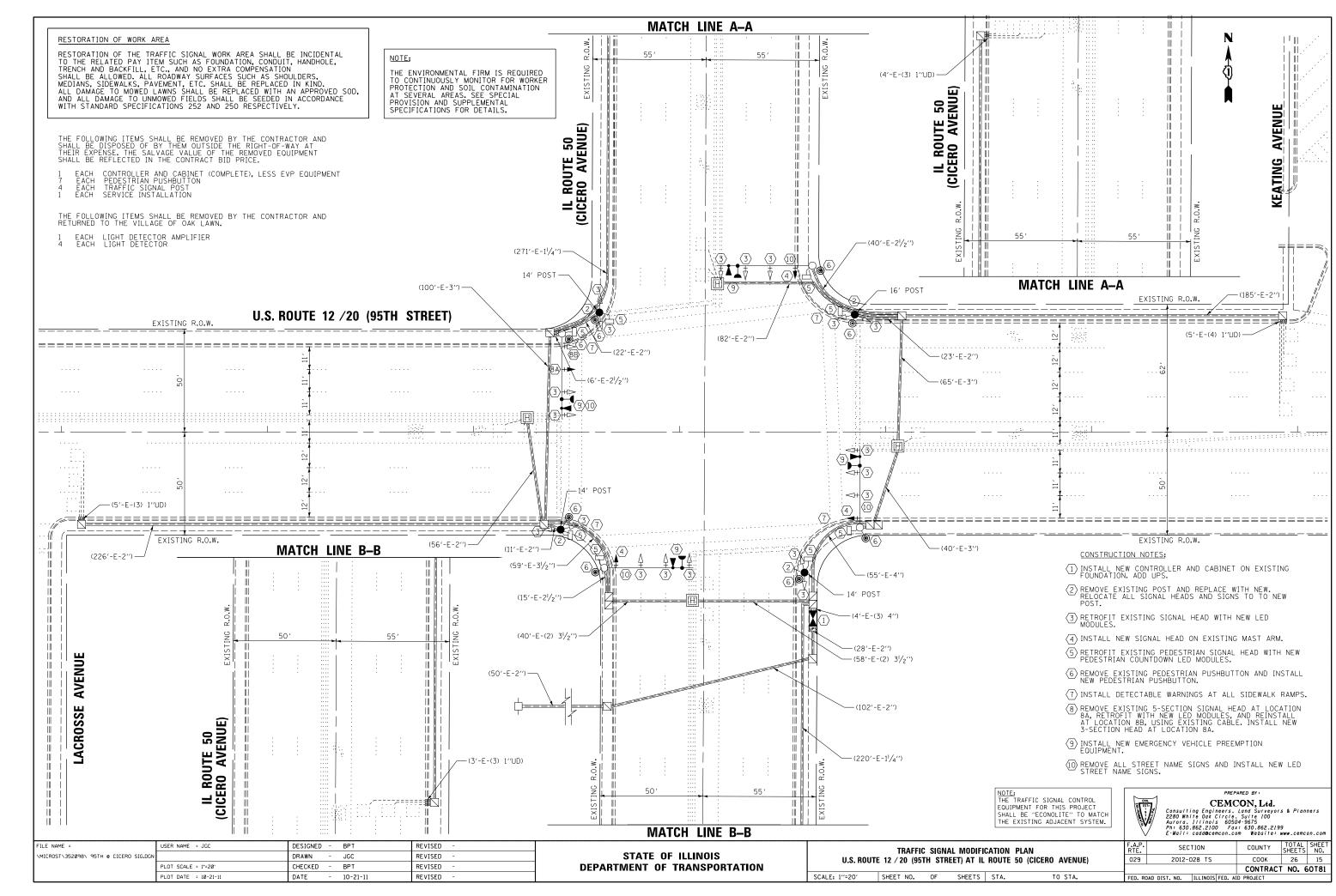
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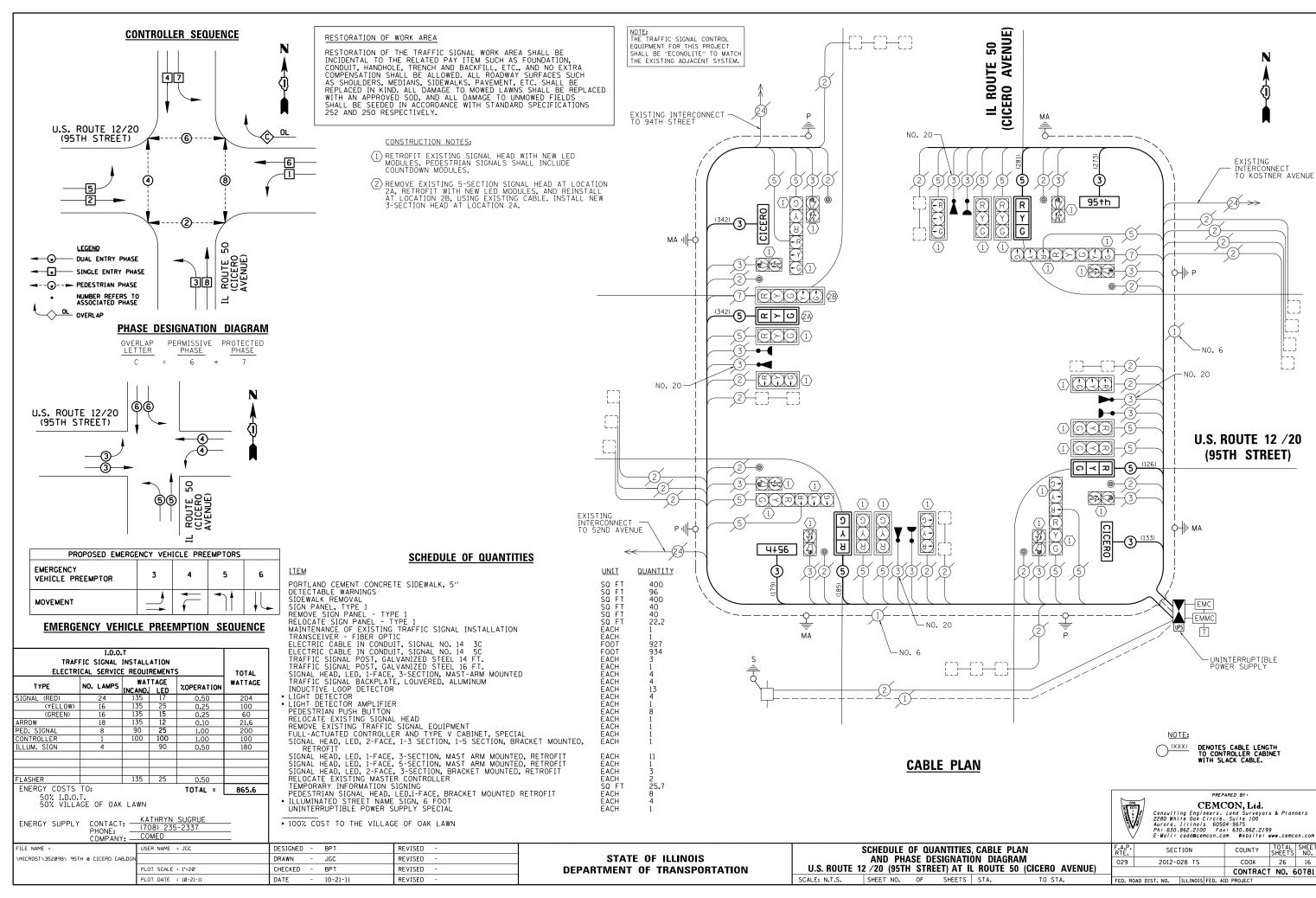
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

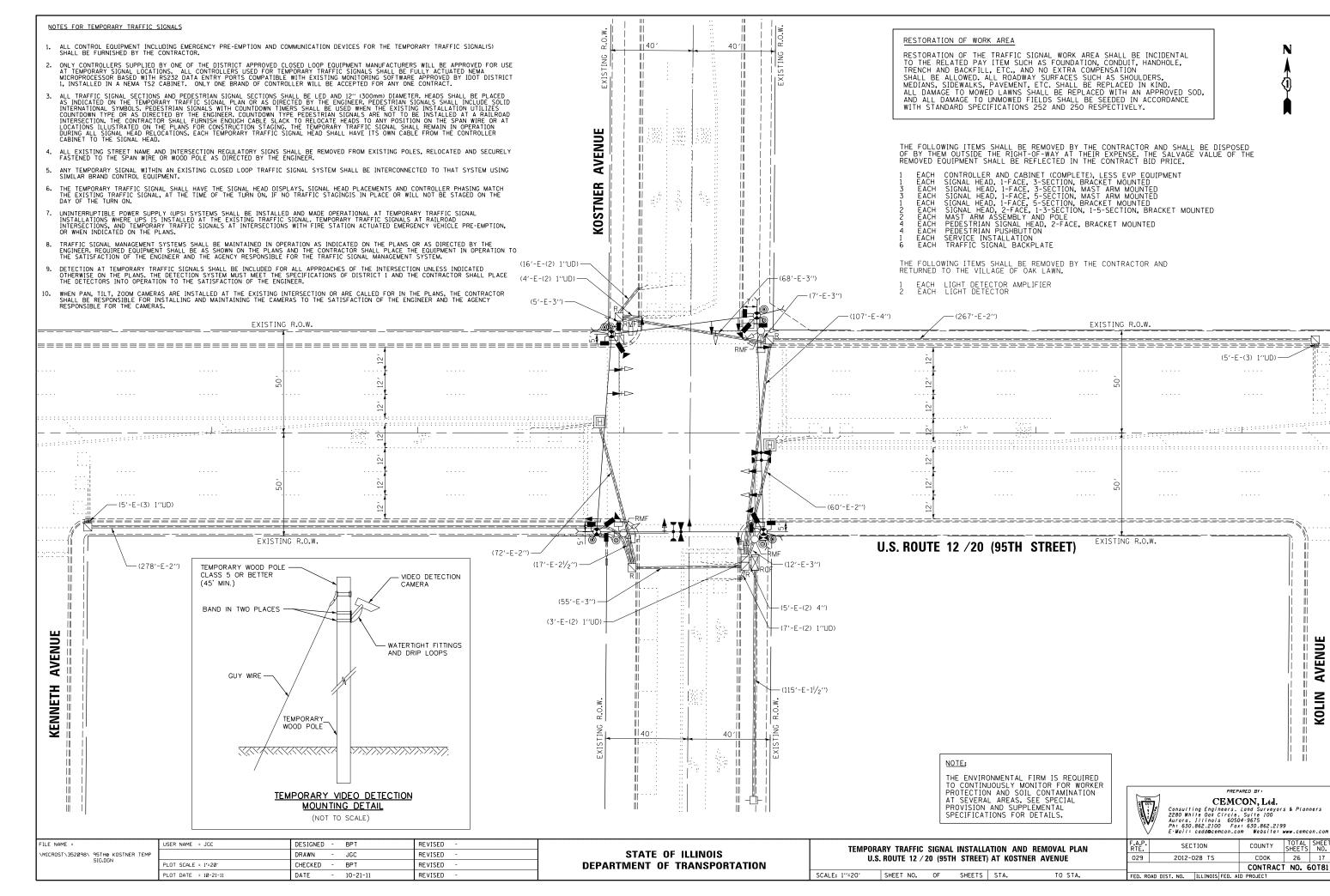
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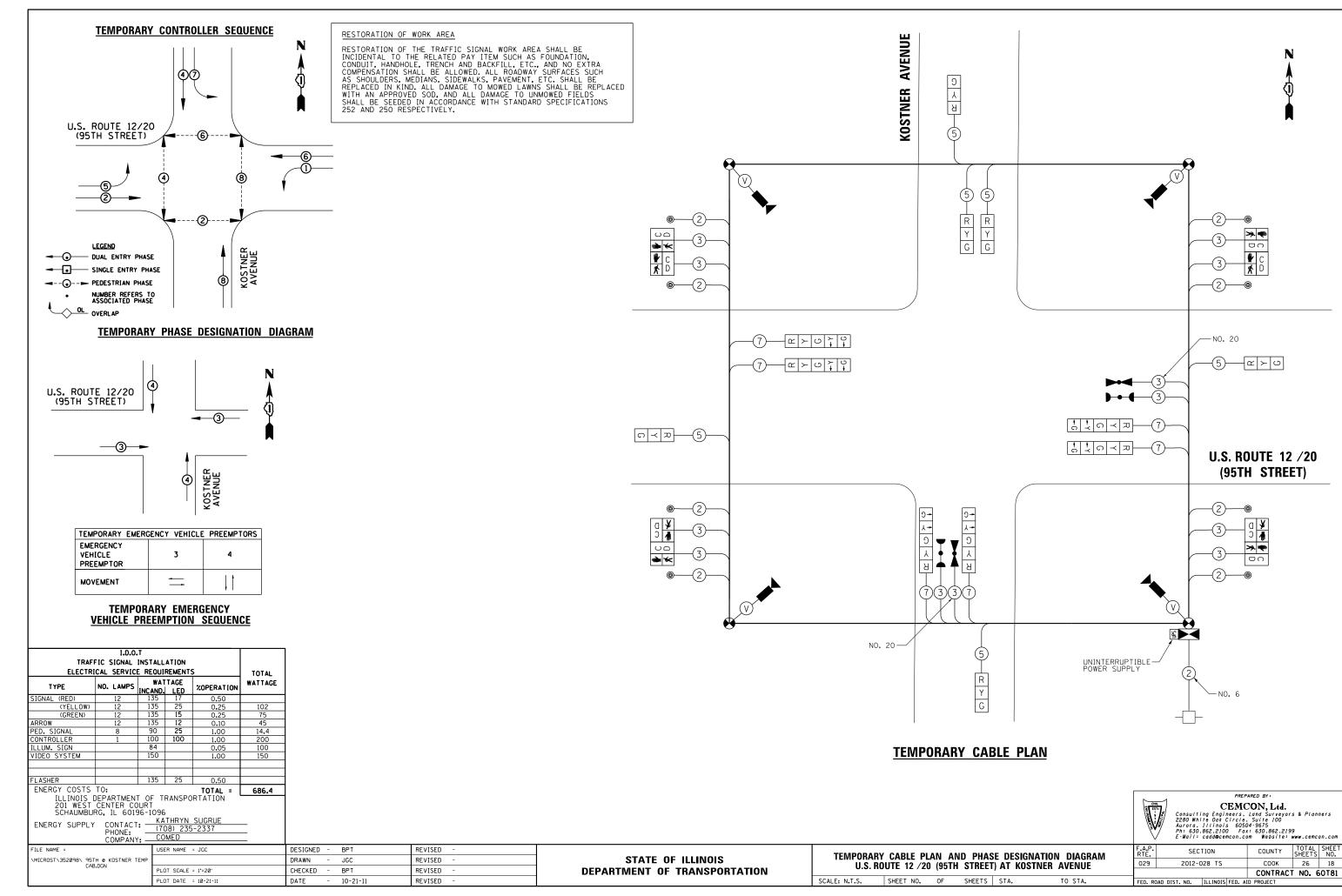
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS SCALE: NONE SHEET NO. 6 OF 6 SHEETS STA.

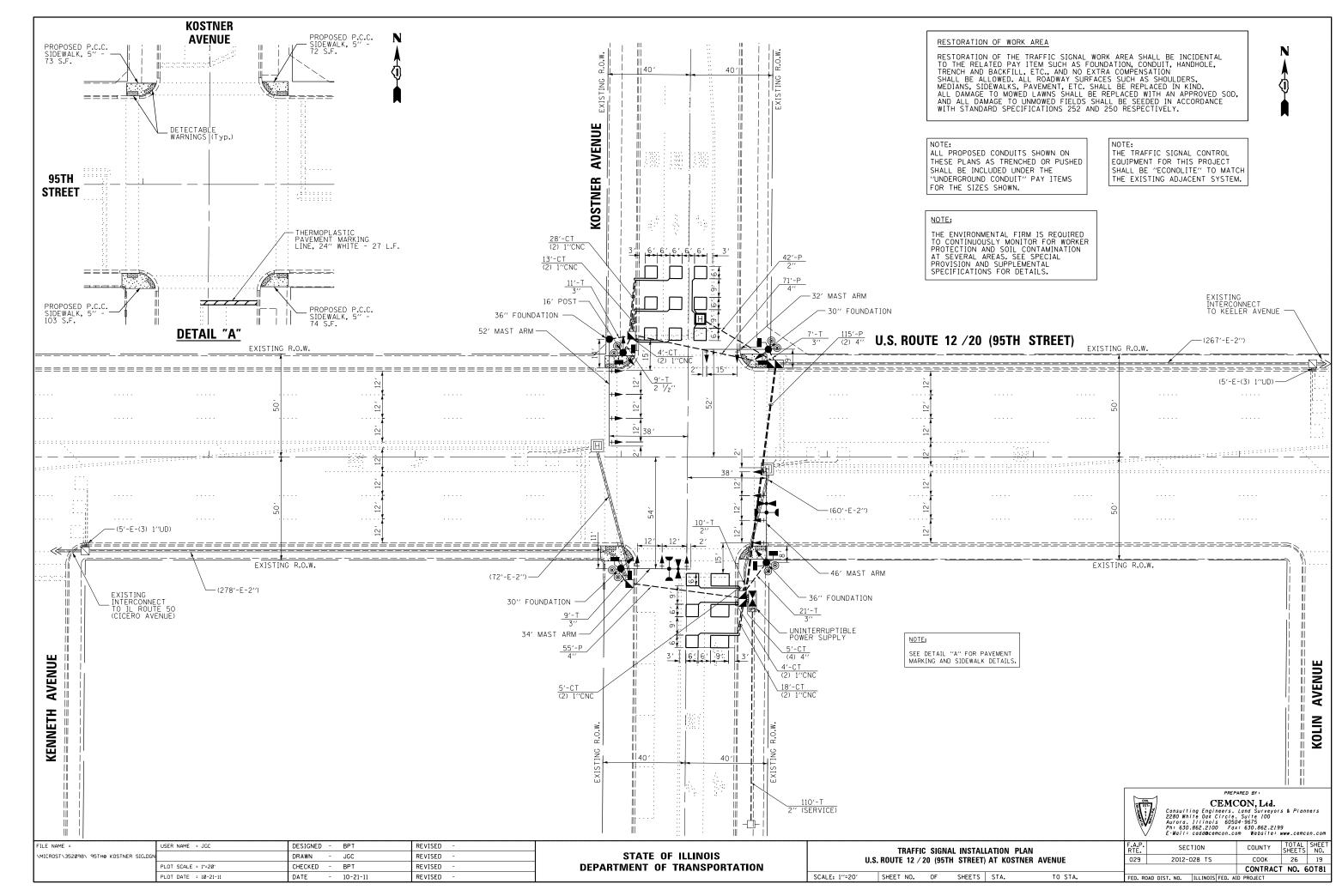
SECTION COUNTY 029 2012-028 TS COOK 26 14 TS-05 CONTRACT NO. 60T81

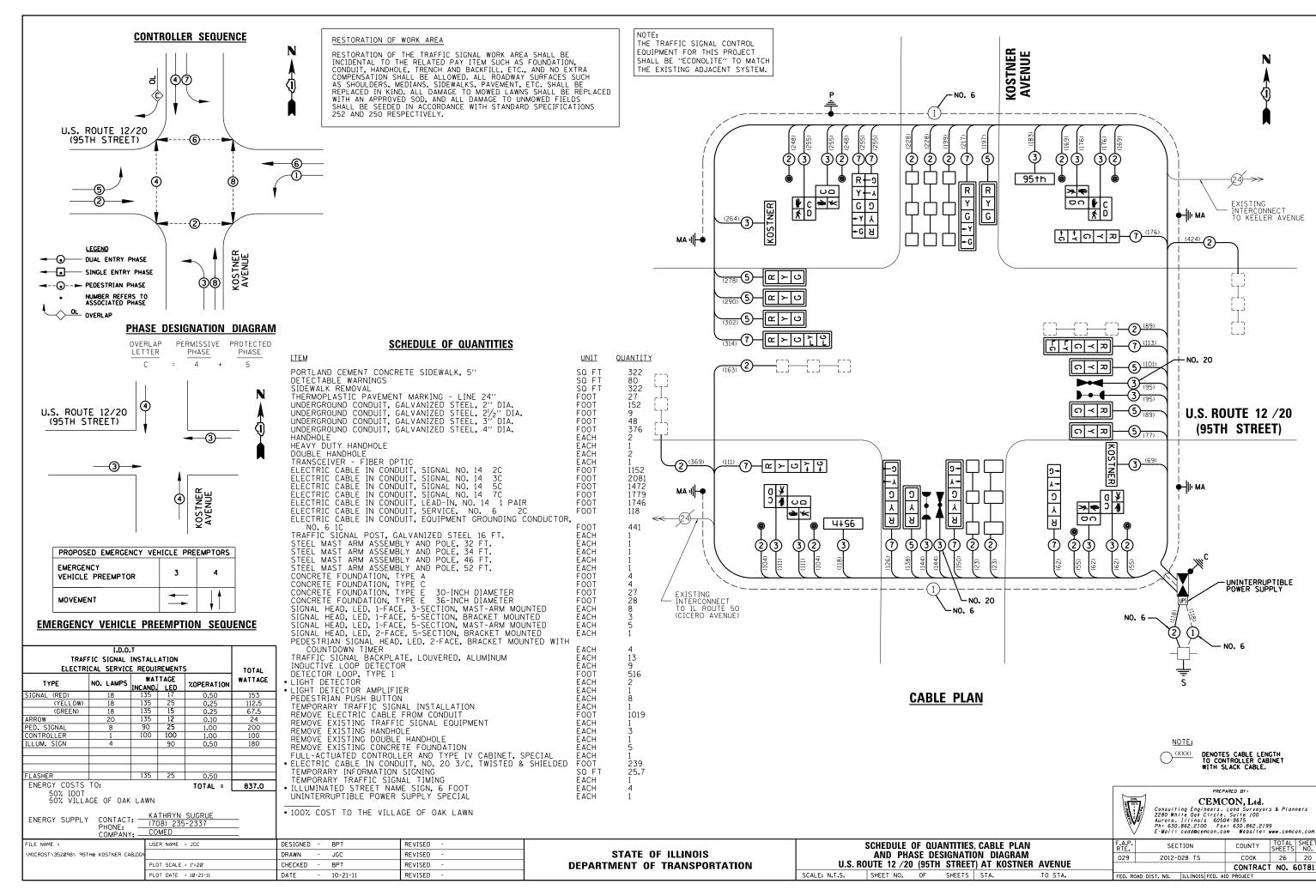


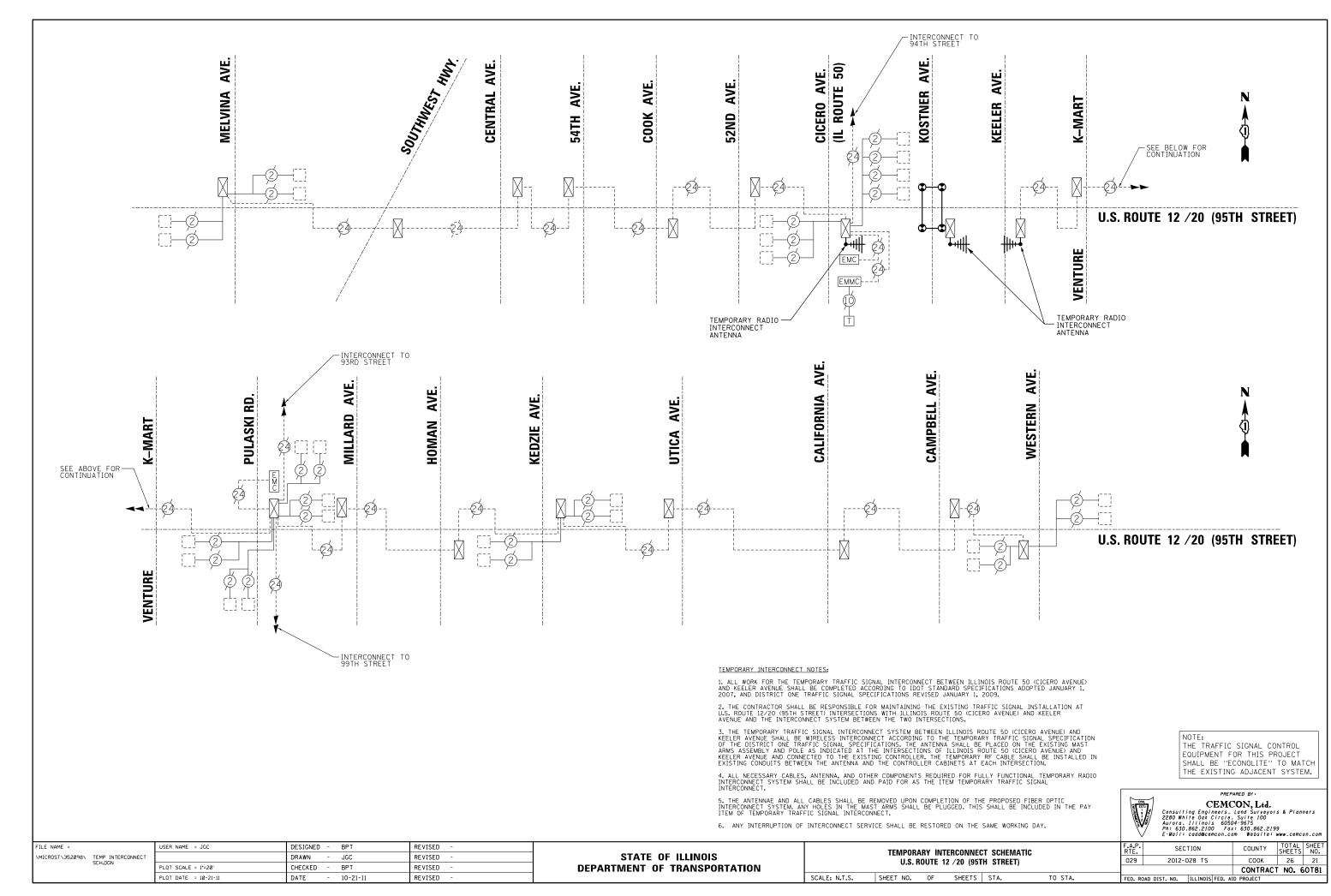




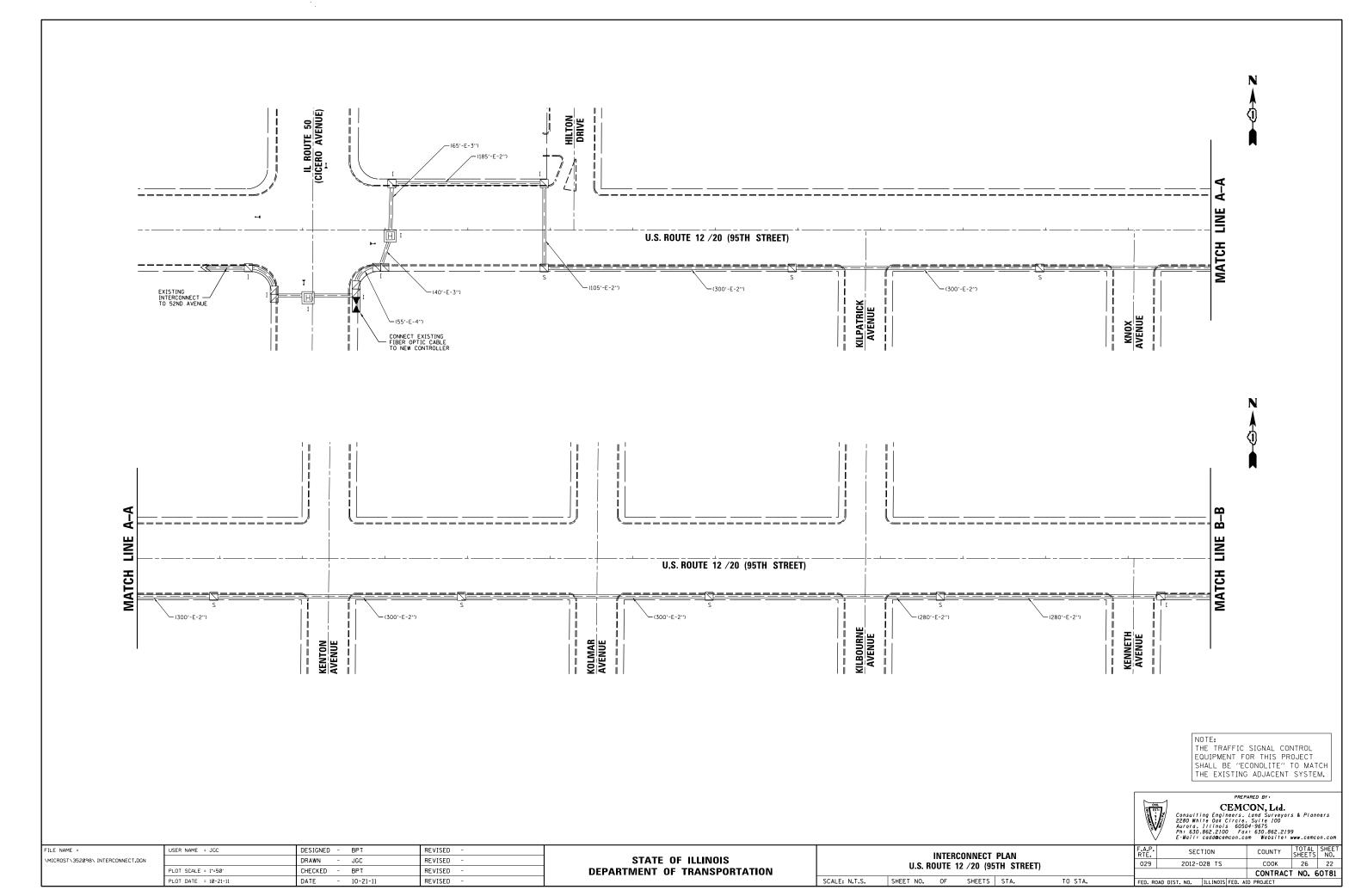


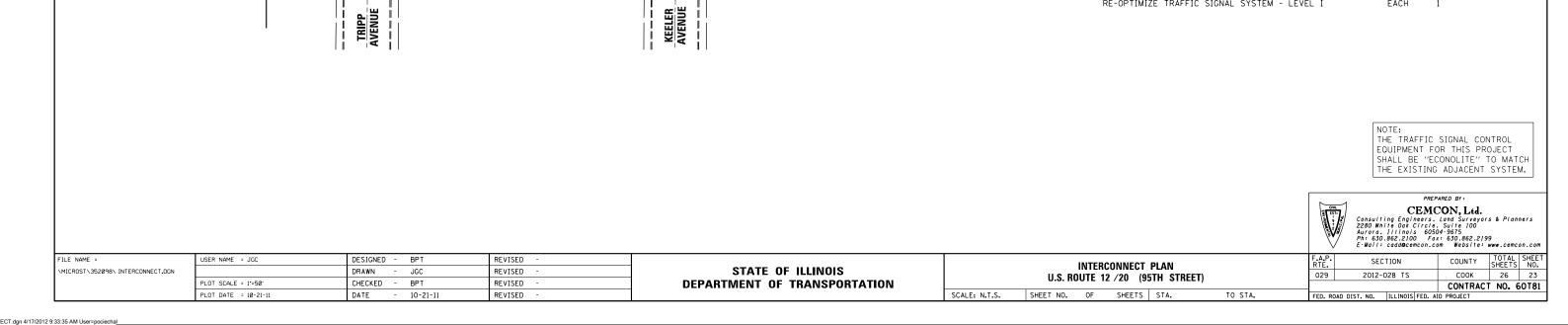


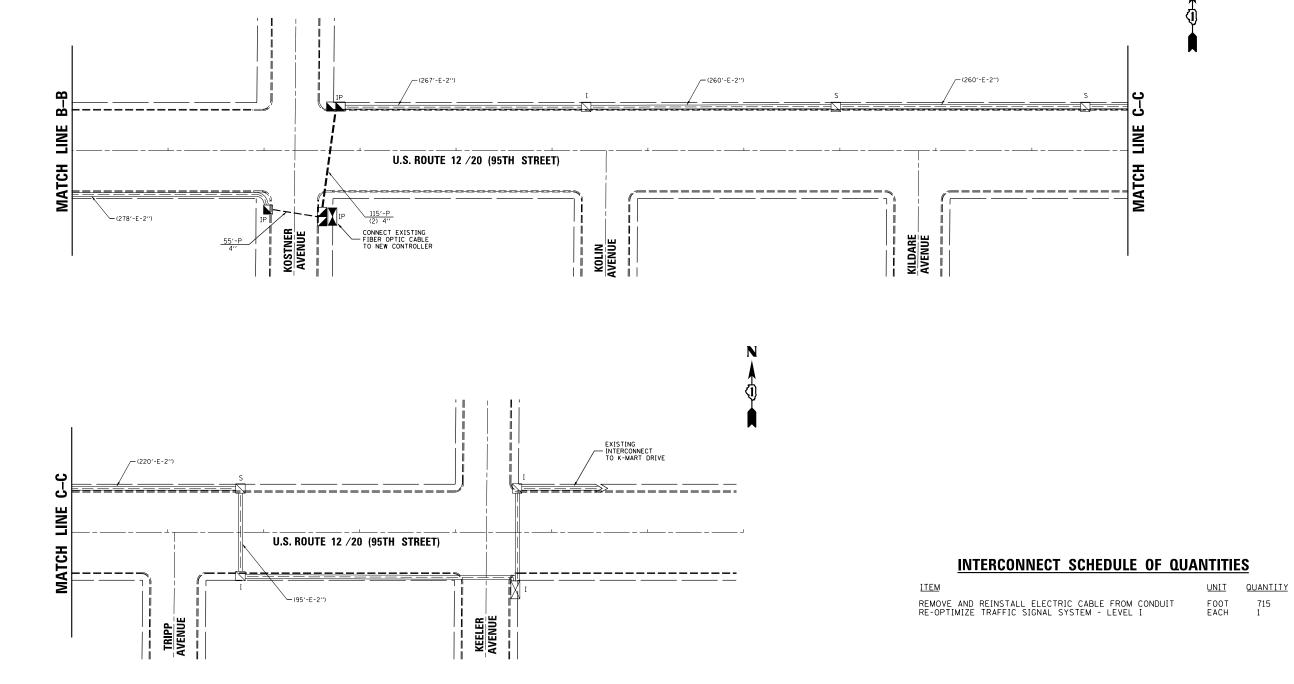


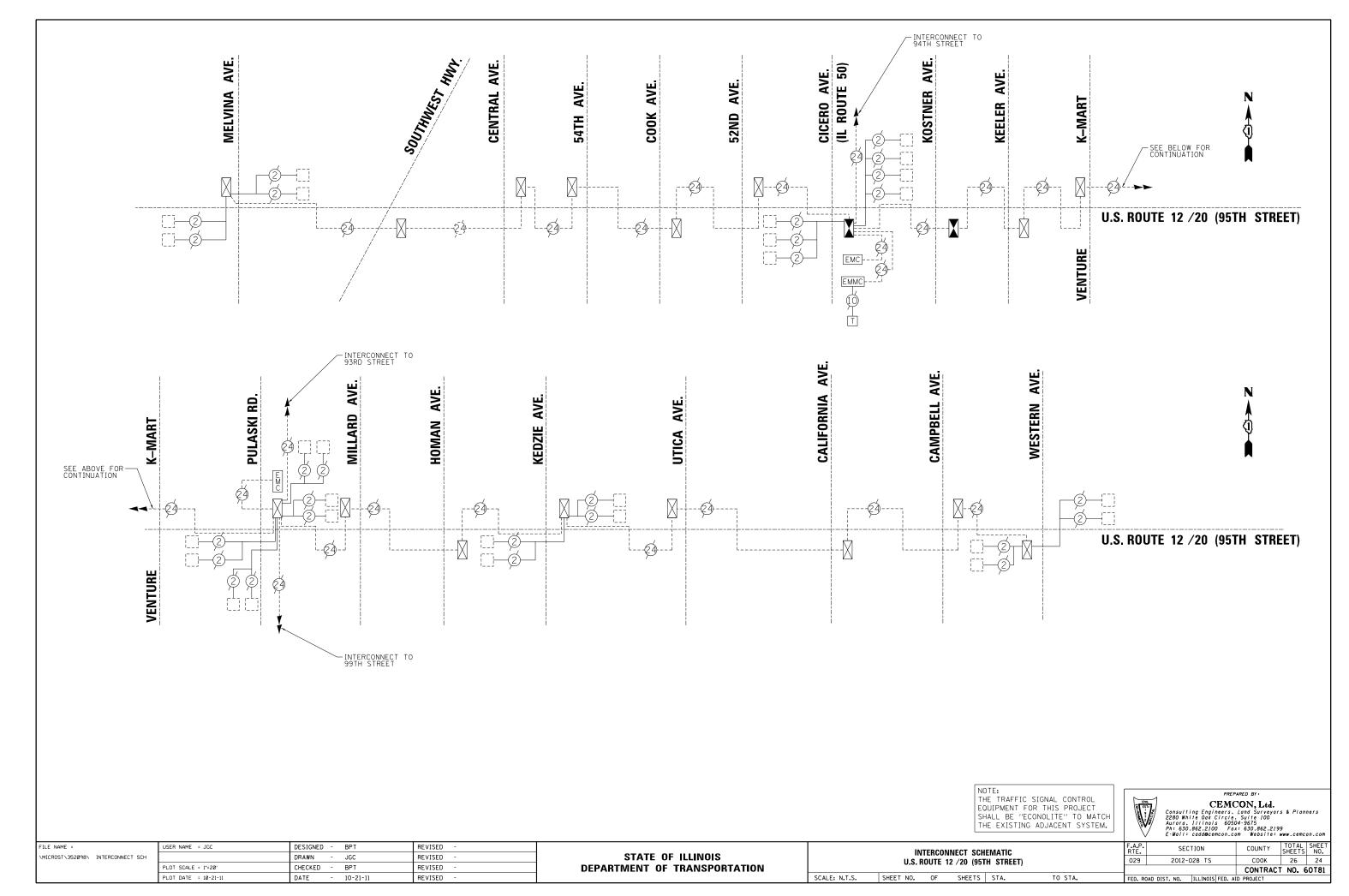


16-TEMP INTERCONNECT SCH.dgn 4/17/2012 9:32:37 AM

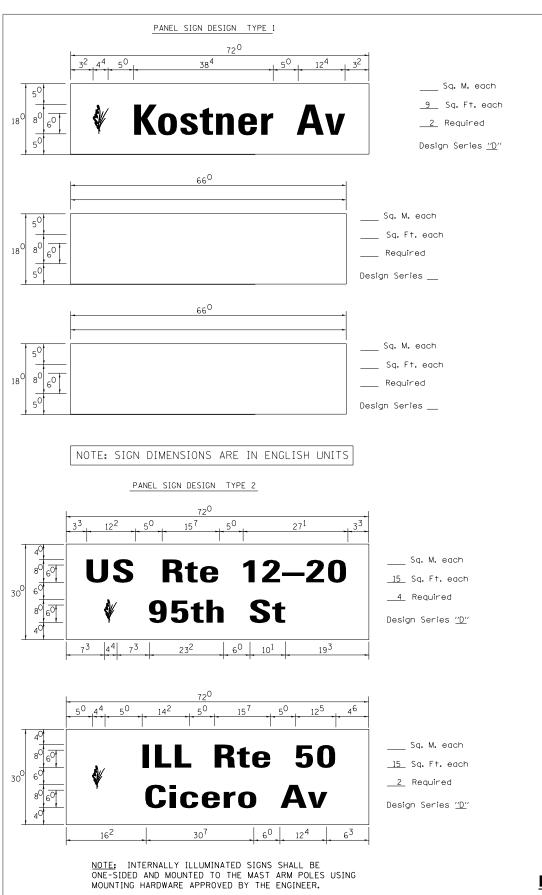








-INTERCONNECT SCH.dgn 4/17/2012 9:34:05 AM Us





NOTE: GRAPHICS FILE MAY BE OBTAINED FROM VILLAGE OF OAK LAWN STREET DIVISION.

Upper Case To Lower Case Spacing Chart 8-6 Inch Series "C & D"

SECOND LETTER											ER						
		acde goq		bhikl mnpru		f	W	j		s †		V У		>	<	Z	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
F	A W X	12	14	14	15	12	14	06	10	11	14	06	10	1 ¹	12	12	14
	В	14	1 ⁵	20	21	14	1 ⁵	11	12	14	1 ⁵	12	14	12	14	16	17
	CEG	14	15	20	21	12	14	06	10	12	14	12	14	14	1 ⁵	14	1 ⁵
	D O Q R	14	15	2 0	21	14	1 ⁵	06	10	12	14	12	14	14	1 ⁵	14	15
I R	F	05	06	14	1 ⁵	06	10	05	06	06	10	06	10	06	10	11	12
S	H I M N	2 0	21	22	24	20	21	14	1 ⁵	16	17	16	17	20	21	20	21
	JU	2 0	2 1	20	21	16	17	14	15	16	17	16	17	16	17	20	21
Ē	K L	11	12	16	1 7	11	12	05	06	11	12	11	12	11	12	12	14
T	Р	12	14	14	15	12	14	05	06	11	12	11	12	12	14	12	14
E R	S	12	14	16	1 7	12	14	06	10	12	14	12	14	1 ²	14	1 ²	14
	Т	11	12	16	1 7	06	10	06	10	11	12	11	1 ²	11	12	12	14
	V	0 6	10	14	15	11	12	06	10	12	14	12	14	12	14	12	14
	Υ	05	06	1 4	15	06	10	05	06	05	07	05	06	06	10	11	12
	Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower Case To Lower Case Spacing Chart 6 Inch Series "C & D"

			SECOND LETTER														
		a c g (b h m n p	ikl	f	W	j	Ī	S	+	V	У	>	<	2	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
F I R S T	adhgij Imnqu	16	17	22	24	16	17	12	14	14	15	14	15	1 ⁶	17	16	17
S	bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
T	се	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
	r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
ETTER	† z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
Ė	v у	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
	W	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
	×	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number Spacing Chart 8 Inch Series "C & D"

		SECOND NUMBER																			
		()		1	2	2	-	3	_	1	5	5	6	ŝ	-	7	8	3	(3
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
F I	0 9	1 ⁶	17	16	17	14	1 ⁵	1 ²	14	14	1 ⁵	14	1 ⁵	1 ⁶	17	1 ²	14	1 ⁶	17	1 ⁶	17
R S	1	2 ⁰	21	2 ⁰	2 1	2 ⁰	2 1	1 ⁶	1 ⁷	14	1 ⁵	20	21	2 ⁰	21	14	1 ⁵	2 ⁰	21	2 ⁰	21
T	2 3 4	14	1 ⁵	14	1 ⁵	14	1 ⁵	1 ²	14	1 ²	14	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	1 ⁶	1 ⁷	1 ⁴	1 ⁵
N U	5	14	1 ⁵	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	1 ¹	1 ²	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	14	1 ⁵	1 ⁴	15
M B	6	1 ⁶	17	14	1 ⁵	14	1 ⁵	1 ²	1 ⁵	1 ²	14	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	14	1 ⁵	1 ⁴	1 ⁵
E	7	1 ²	14	1 ²	14	14	1 ⁵	1 ²	1 ⁵	0 ⁵	06	1 ²	14	14	1 ⁵	1 ¹	1 ²	14	1 ⁵	1 ²	14
.,	8	16	17	16	17	14	1 ⁵	12	1 ⁵	12	1 ⁴	14	1 ⁵	1 ⁶	17	1 ²	1 ⁴	16	17	14	15

EXAMPLE, 2^{3} DENOTES $\frac{3''}{8}$

UPPER AND LOWER CASE LETTER WIDTHS

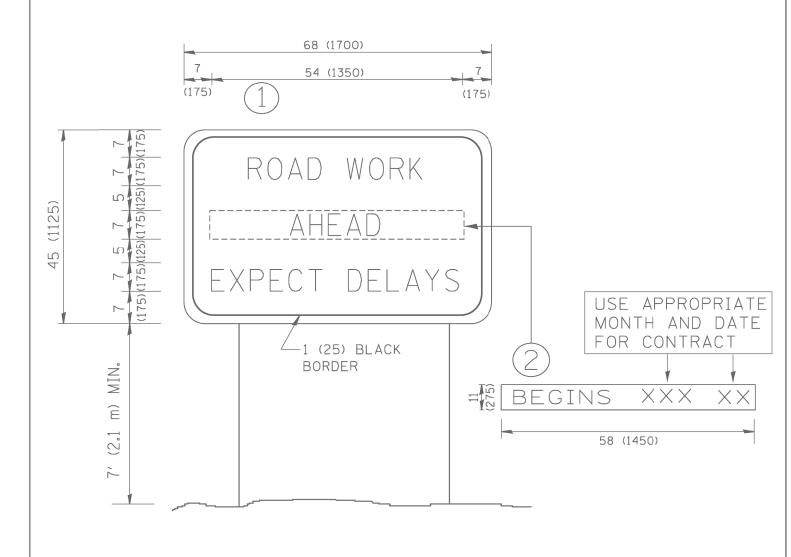
L E T T E R		UPPER ETTERS		H UPPER LETTERS	L E T	6 INCH LOWER CASE LETTERS SERIES			
T E	SEF	RIES	SEI	RIES	T E				
R S	С	D	С	D	E T E R S	С	D		
А	36	5 ⁰	5 0	6 ⁵	а	35	42		
В	32	40	4 3	5 ³	Ь	35	42		
С	32	40	4 3	5 ³	С	35	4 1		
D	32	40	4 3	53	d	35	4 2		
Е	3 0	35	40	4 7	е	35	42		
F	3 0	35	40	47	f	2 3	26		
G	32	40	4 3	5 ³	g	3 ⁵	42		
Н	32	40	4 3	53	h	35	42		
I	0 7	0 7	1 ¹	12	ī	1 1	1 1		
J	30	3 6	40	5 ⁰	j	20	22		
K	32	41	4 3	5 4	k	35	42		
L	3 0	35	40	4 7	ı	1 1	1 1		
М	3 7	45	5 ¹	6 ¹	m	60	7 0		
N	32	40	43	5 3	n	35	42		
0	34	42	4 5	5 ⁵	0	36	43		
Р	32	40	4 3	5 3	Р	35	42		
Q	3 4	42	45	5 ⁵	q	35	42		
R	32	4 0	4 3	5 ³	r	26	32		
S	3 ²	40	43	5 ³	s	36	42		
Т	30	35	40	4 7	+	2 7	3 ²		
U	3 ²	4 0	4 3	5 ³	u	35	42		
٧	35	4 4	4 7	60	V	42	47		
W	4 4	5 ²	60	7 0	w	5 ⁵	6 ⁴		
X	3 4	40	45	5 3	×	4 4	5 1		
Υ	3 6	50	5 0	66	У	46	53		
Z	3 2	40	43	5 ³	z	3 6	43		

NUM	6 INCH	SERIES	8 INCH SERIES				
${}^{N_{\bigcup_{M_{B_{E_{R}}}}}}$	С	D	С	D			
1	12	1 4	15	20			
2	32	40	4 ³	5 ³			
3	32	40	43	5 ³			
4	3 ⁵	4 ³	4 ⁷	5 7			
5	32	40	43	5 ³			
6	32	40	4 3	5 3			
7	32	40	4 ³	5 ³			
8	32	4 0	4 3	5 ³			
9	32	40	4 ³	5 ³			
0	34	42	45	5 ⁵			

FILE NAME USER NAME = kanthaphixaybo DESIGNED - DAG./BCK. REVISED DAG-10/28/09 traffic_legend_v7.dgn DRAWN - BCK. REVISED LOT SCALE = 20.0000 '/ IN CHECKED - DAG/DAD REVISED LOT DATE = 10/6/2009 DATE 03/15/09 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TOTAL SHEET NO. 26 25 SECTION DISTRICT 1 COUNTY 2012-028 TS COOK 029 MAST ARM MOUNTED STREET NAME SIGNS CONTRACT NO. 60T81 SHEET NO. OF SHEETS STA.



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.

[FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROA	AD		F.A.P.	SECTION	COUNTY	TOTAL	AL SHE	EET
	W:\diststd\22x34\tc22.dgn	DRAWN - REVISED - R. MIR:		REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS						2012-028 TS	соок	26		26
		PLOT SCALE = 50.000 '/ [N.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN				TC-22	CONTRAC	T NO.		
		PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A				\neg