INDEX OF SHEETS

OR 811

**CONTRACT NO. 60F98** 

 $\bigcirc$ 

STATE OF ILLINOIS

### DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

## PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1

HIGHWAY SAFETY IMPROVEMENT PROJECT

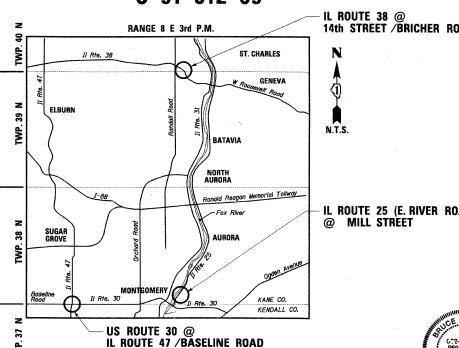
FAU 2503(IL ROUTE 25-EAST RIVER ROAD) @ MILL STREET FAP 347 (IL ROUTE 38)@ 14TH STREET/BRICHER ROAD

SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM FAP 349 (US ROUTE 30 )@ IL ROUTE 47/BASELINE ROAD

KANE COUNTY PROJECT: HSIP-0005 (669)

**SECTION 2009-003 TS** 

C-91-312-09



LOCATION MAP

14th STREET /BRICHER ROAD

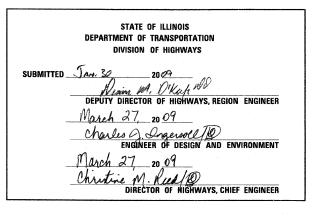
IL ROUTE 25 (E. RIVER ROAD)

But all Expires 11-30-09

CEMCON, Led. Consulting Engineers. Lund Surveyors & Planners 2280 White Oak Circle. Luite 100 Aurora. Illinois 6504 9675 Ph. 630.862.2100 Fax: 650.862.2199 E-Mail: addagement.om Website: www.cemcon.co

KANE 28 2009-003 TS ILLINOIS CONTRACT NO. 60F98





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, 2007 (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) PRECONSTRUCT ION 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 "EAGLE" 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 RECIEVE UPS, WILL HAVE A "L" SHAPED 4 FEET CONCRETE MAINTENANCE PAD INSTALLED. SEE PLANS FOR DETAIL. THE COST OF INSTALLATION OF CONCRETE PAD IS INCIDENTAL TO NEW CONTROLLER AND OR UPS INSTALLATIONS.

PREPARED BY:

CEMCON, Ltd.

Consulting Engineers. Land Surveyors & Planners
2280 White Oak Circle. Suite 100

Aurora, Illinois 60504-9675

Ph. 630, 682, 2109

E-Mail: cadd@cemcon.com Website: www.cemcon.com

FILE NAME = USER NAME = JGC DESIGNED - KK REVISED - 
\MICROST\352069\ 02-GENNOTES.DGN DRAWN - JGC REVISED - 
\PLOT SCALE = 1\*=20' CHECKED - BPT REVISED - 
\PLOT DATE = 01-23-09 DATE - 01-23-09 REVISED - 
\Rightarrow \text{REVISED} - \text{REVIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	KANE COUNT		NERAL NO AFFIC SIG		ODERNIZATION
SCALE: N.T.S.	SHEET NO.	0F	SHEETS	STA.	TO STA.

F.A.P. RTE.		SEC	TION			COUNTY	TOTAL SHEETS	SHEET NO.
	2	2009-0	003 TS		T	KANE	28	2
					CONTRACT	NO. 6	OF98	
FED. RO	DAD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		

								<del>,                                    </del>	<u> </u>	<u> </u>
								CONSTRUCT	ION TYPE CODE	E Y031-1F
			PAY	SUMMARY OF TRAFFIC SIGNAL O	DUANTITIES		TOTAL	IL 25 @	IL 38 @	U.S. 30 @
			CODE				QUANTITY	MILL ST.	14TH ST.	IL 47
			NUMBER	ITEM		UNIT	URBAN	QTY	QTY	FAP 349
			67100100	MOBILIZATION		L SUM	1 1	0.33	FAP 347 0.33	0.34
			70102620	TRAFFIC CONTROL AND PROTECT	TION, STANDARD 701501	L SUM	+ 1	0.33	0.33	0.34
			70102622	TRAFFIC CONTROL AND PROTECT		L SUM	1	0.33	0.33	0.34
			70102635	TRAFFIC CONTROL AND PROTECT	TION, STANDARD 701701	L SUM	1	0.33	0.33	0.34
			70102640	TRAFFIC CONTROL AND PROTECT	TION, STANDARD 701801	L SUM	1	0.33	0.33	0.34
		€	72000200	SIGN PANEL, TYPE 2		SQ FT	55	30		25
		6	72400710 72400720	RELOCATE SIGN PANEL TYPE 1 RELOCATE SIGN PANEL TYPE 2		SQ FT	45.5	28.5	25	17
		8	78000200	THERMOPLASTIC PAVEMENT MAR		SQ FT FOOT	25 2190	-	25	2190
		Q.	78000400	THERMOPLASTIC PAVEMENT MAR		FOOT	100			100
		Š	78000600	THERMOPLASTIC PAVEMENT MAR		FOOT	1296	951	272	73
		ě	78000650	THERMOPLASTIC PAVEMENT MAR	KING-LINE 24"	FOOT	214	93	71	50
		8	78300400	THERMOPLASTIC PAVEMENT MAR		SQ FT	1517	254	419	844
			81000600	CONDUIT IN TRENCH, 2" DIA., C		FOOT	393	393		<u> </u>
		•	81000700	CONCUIT IN TRENCH, 2/2" DIA.,		FOOT	132	25	47	60
			81001000 81018500	CONDUIT IN TRENCH, 4" DIA., C		FOOT	20	20		
			81018600	CONDUIT PUSHED, 2 " DIA., GAI CONDUIT PUSHED, 2 1/2" DIA., GA		F00T F00T	153	153		
			81018700	CONDUIT PUSHED, 3" DIA., GAL		FOOT	86	86		i
			81018900	CONDUIT PUSHED, 4" DIA., GAL		FOOT	184	184		
			81400100	HANDHOLE	1	EACH	3	3		
			81400200	HEAVY-DUTY HANDHOLE		EACH	2	2		
			81400300	DOUBLE HANDHOLE		EACH	1	1		
			81603035		/C NO.6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	114	<del> </del>	114	
			81900200 85000200	TRENCH AND BACKFILL FOR ELE MAINTENANCE OF EXISTING TRA		FOOT	545	438	1	60
			85700205	FULL-ACTUATED CONTROLLER AN		EACH	1 1	1	1	
			87301215	ELECTRIC CABLE IN CONDUIT. S		FOOT	820	632	188	
			87301225	ELECTRIC CABLE IN CONDUIT, S		FOOT	1904	838	419	647
			87301245	ELECTRIC CABLE IN CONDUIT, S	IGNAL NO. 14 5C	FOOT	3842	1708	923	1211
			87301255	ELECTRIC CABLE IN CONDUIT, S		FOOT	1404	537	426	441
			87301305	ELECTRIC CABLE IN CONDUIT, L		FOOT	977	977		<b></b>
			87301805	ELECTRIC CABLE IN CONDUIT, S		FOOT	49	49		<del> </del>
			87502480 87502500	TRAFFIC SIGNAL POST, GALVANI TRAFFIC SIGNAL POST, GALVANI	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	EACH EACH	2	2		
			87700190	STEEL MAST ARM ASSEMBLY AN		EACH	3	1		2
			87700210	STEEL MAST ARM ASSEMBLY AN		EACH	1	t		1
			87700220	STEEL MAST ARM ASSEMBLY AN		EACH	1	1		
			87700230	STEEL MAST ARM ASSEMBLY AN		EACH	1			1
			87702910	STEEL COMBINATION MAST ARM		EACH	2		2	
			87800100	CONCRETE FOUNDATION, TYPE A		FOOT	12	12		<del> </del>
			87800150 87800400	CONCRETE FOUNDATION, TYPE C		FOOT	4	4		30
		-	87800400	CONCRETE FOUNDATION, TYPE E CONCRETE FOUNDATION, TYPE E		F00T F00T	45 .75	15 15	30	30
			87900200	DRILL EXISTING HANDHOLE	30 Inch DIMMETER	EACH	8	2	2	4
			88030020	SIGNAL HEAD, LED, 1-FACE, 3-S	ECTION, MAST-ARM MOUNTED	EACH	14	6	6	2
			88030050	SIGNAL HEAD, LED, 1-FACE, 3-S		EACH	2	2		
			88030080	SIGNAL HEAD, L.E.D, 1-FACE, 4		EACH	4			4
			88030100	SIGNAL HEAD, LED, 1-FACE, 5-S		EACH	4	2	2	·
			88030110	SIGNAL HEAD, LED, 1-FACE, 5-S		EACH	8	2	4	2
			88030210	SIGNAL HEAD, LED, 2-FACE, 3-S		EACH	1 2	ļ		1
			88030240 88030320		3 SECTION, 1-5 SECTION, BRACKET MOUNTED -3 SECTION, 2-5 SECTION BRACKET MOUNTED	EACH EACH	3	ļ	2	1 1
			88102717		-3 SECTION, 2-3 SECTION BRACKET MOUNTED  1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	2	2	
			88102747		), 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3	2	1	
			88200210	TRAFFIC SIGNAL BACKPLATE, LO		EACH	26	8	10	8
			88500100	INDUCTIVE LOOP DETECTOR		EACH	4	4		
			88600100	DETECTOR LOOP, TYPE I		FOOT	287	287		
		*	88700200	LIGHT DETECTOR		EACH	3	<b></b>		3
		*	88700300 89000100	LIGHT DETECTOR AMPLIFIER TEMPORARY TRAFFIC SIGNAL IN	STALL ATION	EACH	1 2	1		1
			89000100	RELOCATE EXISTING PEDESTRIAL		EACH EACH	5	4	1	1
			89501400		VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2	<del>                                     </del>	2	
			89502300	REMOVE ELECTRIC CABLE FROM		FOOT	8173	5182	1700	1291
			89502375	REMOVE EXISTING TRAFFIC SIGN		EACH	3	1	1	1
			89502380	REMOVE EXISTING HANDHOLE		EACH	5	5		
			89502385	REMOVE EXISTING CONCRETE FO		EACH	18	12	2	4
			XX006958		SECTION, 1-4 SECTION, 1-5 SECTION BRACKET MOUNTED	EACH	1 100.0	<del>                                     </del>	740	1
A 5000	ialty Hems		X0322256 X0323986	TEMPORARY INFORMATION SIGNI RELOCATE EXISTING VIDEO VEH		SQ FT EACH	102.8	34.3	34.2	34.3 1
	· ·		X0323986 X0322881	TREE TRIMMING	DELECTOR	EACH	2	2		<u> </u>
	COST TO THE CITY OF YORKVILLE - YO		V0323412	REMOVE EXISTING SERVICE INST	FALLATION	EACH	1	1		
** 100%	COST TO THE CITY OF YORKVILLE ROVEMENTS AT US ROUTE 30 AND 1	ONLY FOR	X0325705	RE-OPTIMIZE TRAFFIC SIGNAL S		EACH	2	1	1	1
IMPR	VOVEMENTS AT US ROUTE SU AND	L RIE 41- Y031-31	X8440102	RELOCATE EXISTING LUMINAIRE		EACH	2	L	2	
			X8730027	ELECTRIC CABLE IN CONDUIT, G		FOOT	1544	433	688	423
		**			O. 20 3/C, TWISTED & SHIELDED	FOOT	876		231	645
			X8620020 67000400	UNINTERRUPTIBLE POWER SUPPL ENGINEER'S FIELD OFFICE		EACH GAC MO	3	1 2	2	1
	USER NAME = JGC	DESIGNED - KK		against a second control of the second contr		C.7. 5 7.10		2 SUMMARY	OF QUANTI	TIES Z
MARY.DGN	PLOT SCALE - 11-02	DRAWN - JGC		REVISED	STATE OF ILLINOIS		KANE C	OUNTY TRAF		
	PLOT SCALE = 1*=20*	CHECKED - BPT		REVISED -	DEPARTMENT OF TRANSPORTATION					
	PLOT DATE = 01-23-09	DATE - 01-2	25-09	REVISED -		SCALE: N.T.	.s. SHEET	NO. OF	SHEETS STA.	T

FILE NAME = \MICROST\352069\ 03-SUMMARY.DGN

1 901. FED. 151. STATE 151. MONTEOMERY
FAU 2503
2 901. FED 151. STATE 2.51. ST. CHARES 2.51. GENEVA
FAP 347

3 901. FED / 7.51. STATE/2.51/YORKVILLE

PREPARED BY:

CEMCON, Ltd.

Consulting Engineers. Land Surveyors & Pianners
2280 White Oak Circle. Suite 100
Aurors. Jillinois 6504-9675
Ph. 630.682.2100 Fax: 630.882.2199
E-Mail: cadd@camcon.com Website: www.camcon.co

KANE COUNTY TRAFFIC SIGNAL MODERNIZATION SCALE: N.T.S. SHEET NO. OF SHEETS STA.

1

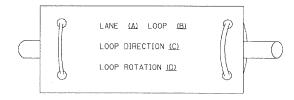
(2)

•	L M0///	Odd a mooilloou		W000//0-	*** . Come	JII . C C III
F.A.P. RTE.	SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	2009-0	03 TS		KANE	28	3
				CONTRACT	NO. 6	OF98
FED. RO	DAD DIST. NO.	ILLINOIS FED.	AID	PROJECT		

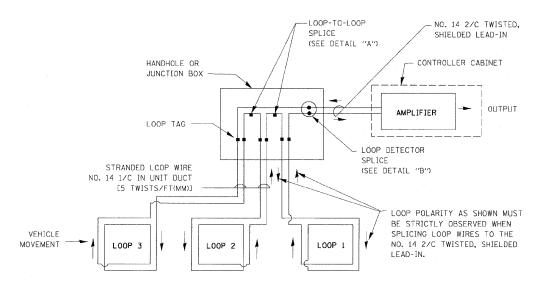
### LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT 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 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

### LOOP LEAD-IN CABLE TAG

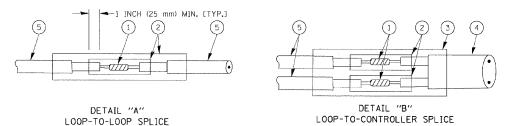


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



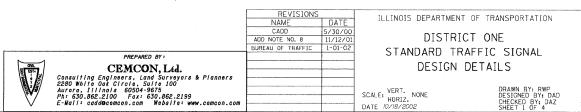
### DETECTOR LOOP WIRING SCHEMATIC

- 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

- (1) 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.



| |0/|8/2002 |c:\projects\diststd\ts05.dgn |VI-TS05

FILE NAME =	USER NAME = JGC	DESIGNED	-	KK	REVISED	-
\MICROST\352069\ 04-TS05A.DGN		DRAWN	-	JGC	REVISED	-
	PLOT SCALE = 1"=20"	CHECKED	-	BPT	REVISED	='
	PLOT DATE = Ø1-23-Ø9	DATE	-	01-23-09	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

ECTION	COUNTY	TOTAL SHEETS	SHEE NO.
9-003 TS	KANE	28	4
	CONTRACT	NO. 6	OF98
ILLINOIS FED. AI	D PROJECT		

200

REVISION DATE: 01/01/02

COUNTY

TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

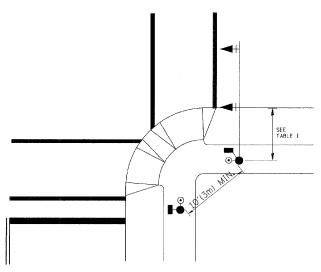
SECTION

STA.

# MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR CURB, SHOULDER, OR EDGE OF PAVEMENT (SEE PLANS) 5' (1.5m) MAX.

TRAFFIC SIGNAL MAST ARM AND POST

### 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.

	F.A. RTE.		SEC	TION	1	С	OUNT'	Y	TOTAL SHEETS	SHEET NO.
	STA.	L				TO.	STA.	***************************************		
ŀ	FED. R	OAD	DIST.	NO. I	ILLI	NOIS	FED.	AID	PROJECT	

### NOTES:

 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

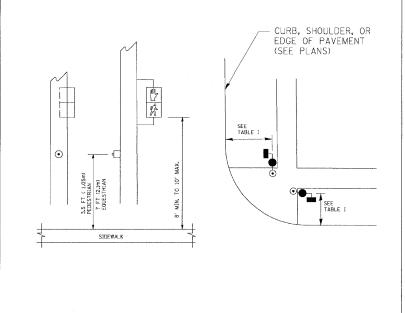
AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). 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 4F-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. 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.
- 3. 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.
- 4. 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 HICHEST POINT OF PAVEMENT)

### PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION



### TABLE I

TRAFFIC SIGNAL EQU		ATION CONCRETE CURB AND GU N. DIST. FROM BACK OF CURB	
TRAFFIC SIGNAL MAST	ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0
TRAFFIC SIGNAL POST		4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0
PEDESTRIAN SIGNAL POS	T	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0
PEDESTRIAN PUSHBUTTO	N	SEE NOTE 1	SEE NOTE 1

PREPARED BY:

CEMCON, Ltd.

Consulting Engineers, Land Surveyors & Planners
2280 White Oat Circle, Suite 100

Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: caddocenoon.com Website: www.cemcon.com

SCALE: N.T.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE HORIZ, NONE DATE 10/18/2002

REVISIONS NAME

BUREAU OF TRAFFIC

TO STA.

DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 2 OF 4

TS05

FILE NAME = \MICROST\352069\ 05-TS05B.DGN

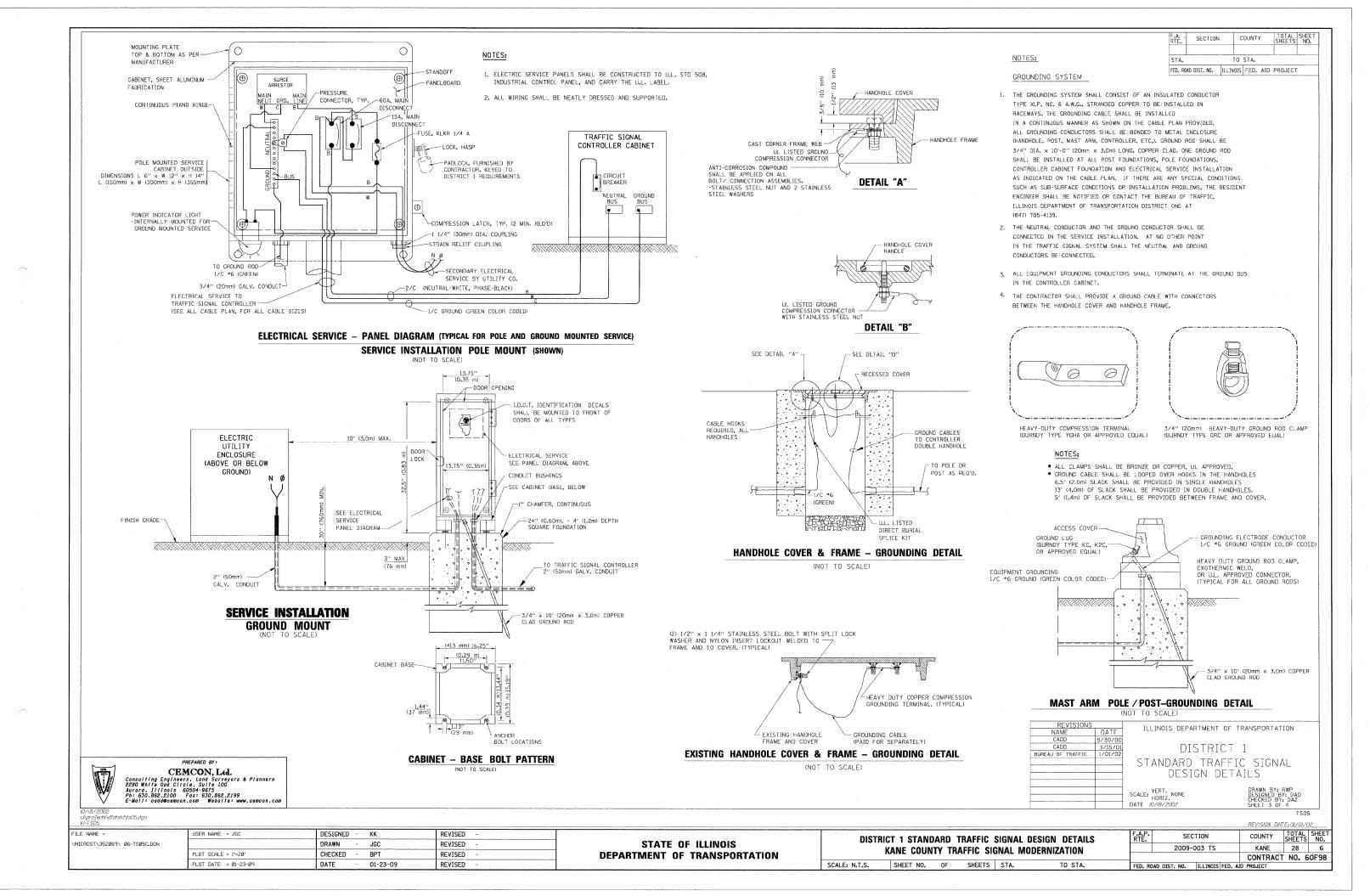
c:\projects\diststd\ts05.dgn VI=TS05

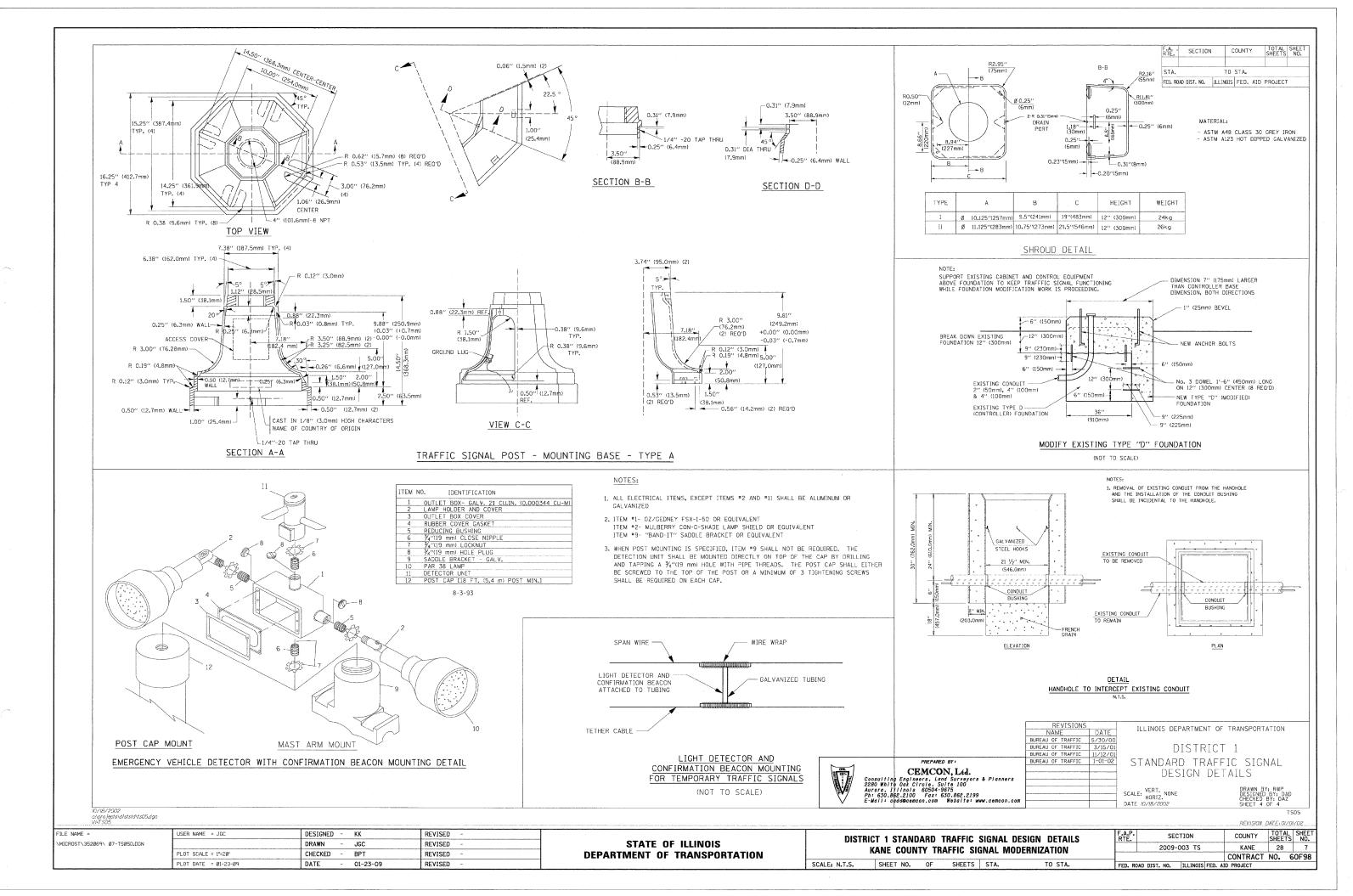
USER NAME = JGC	DESIGNED	-	KK	REVISED	-
	DRAWN	-	JGC	REVISED	wa
PLOT SCALE = 1"=20"	CHECKED	-	BPT	REVISED	100
PLOT DATE = 01-23-09	DATE		01-23-09	REVISED	
 1 E31 DATE - 21 23 27	DATE		01-23-03	NE VISED	

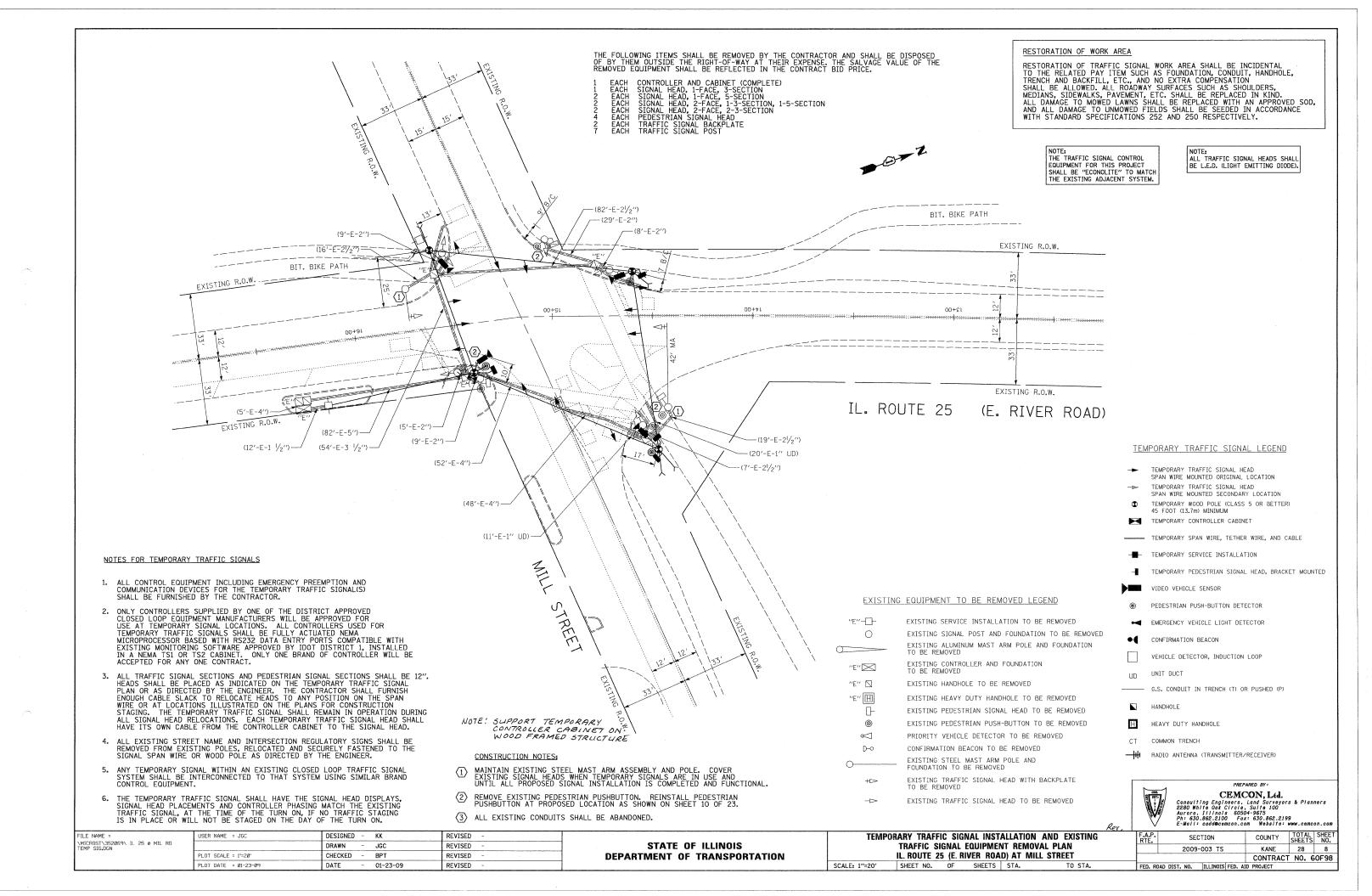
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

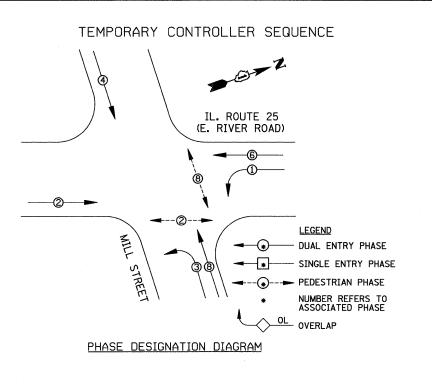
DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
KANE COUNTY TRAFFIC SIGNAL MODERNIZATION

SHEET NO. OF SHEETS STA.









 $\geq$ 

OTHERWISE NOTED.

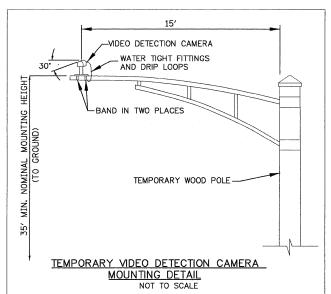
CONFIRMATION BEACON

VIDEO VEHICLE SENSOR

TEMPORARY WOOD POLE

STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 



	FIC SIGNAL ICAL SERVIC			s	TOTAL					
TYPE	NO. LAMPS	WAT	TAGE	%OPERATION	WATTAGE					
SIGNAL (RED)	12	135	17	0.50	102	1				
(YELLOW)	12	135	25	0.25	75	1				
(GREEN)	12	135	15	0.25	45	1				
ARROW	8	135	12	0.10	9.6	1				
PED. SIGNAL	4	90	25	1.00		1				
CONTROLLER	1	100	100	1.00	100	1				
ILLUM. SIGN		84		0.05						
									<b>~</b>	
FLASHER				0.50		FOUNDATION (DEPTH)		CABLE SLACK	FT. (m)	VERTICAL
ENERGY COSTS	TO:			TOTAL =	336.1	TYPE A - POST		HANDHOLE	6.5 (2.0)	ALL FOUNDATI
						D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L)
VILLAGE C	OF MONTGOI	MERY				E - M. ARM POLE		SIGNAL POST	0 (0.0)	BRACKET MOUN
						24" (600mm)		CONTROLLER CAB.		PED. PUSH-BU
ENERGY SUPPLY	CONTACT	MA	RK SCI	HEIBEL	_	30" (750mm)		FIBER OPTIC		ELECTRIC SER
CINEROI SUPPLI	PHONE:	(63	30) 723	3-2128	_			ELECTRIC SERVICE		SERVICE TO G
	COMPAN	y. CO	MED					GROUND CABLE	1 (0.5)	POST MOUNTED

DESIGNED - KK

CHECKED - BPT

- JGC

- 01-23-09

DRAWN

DATE

REVISED

REVISED

REVISED

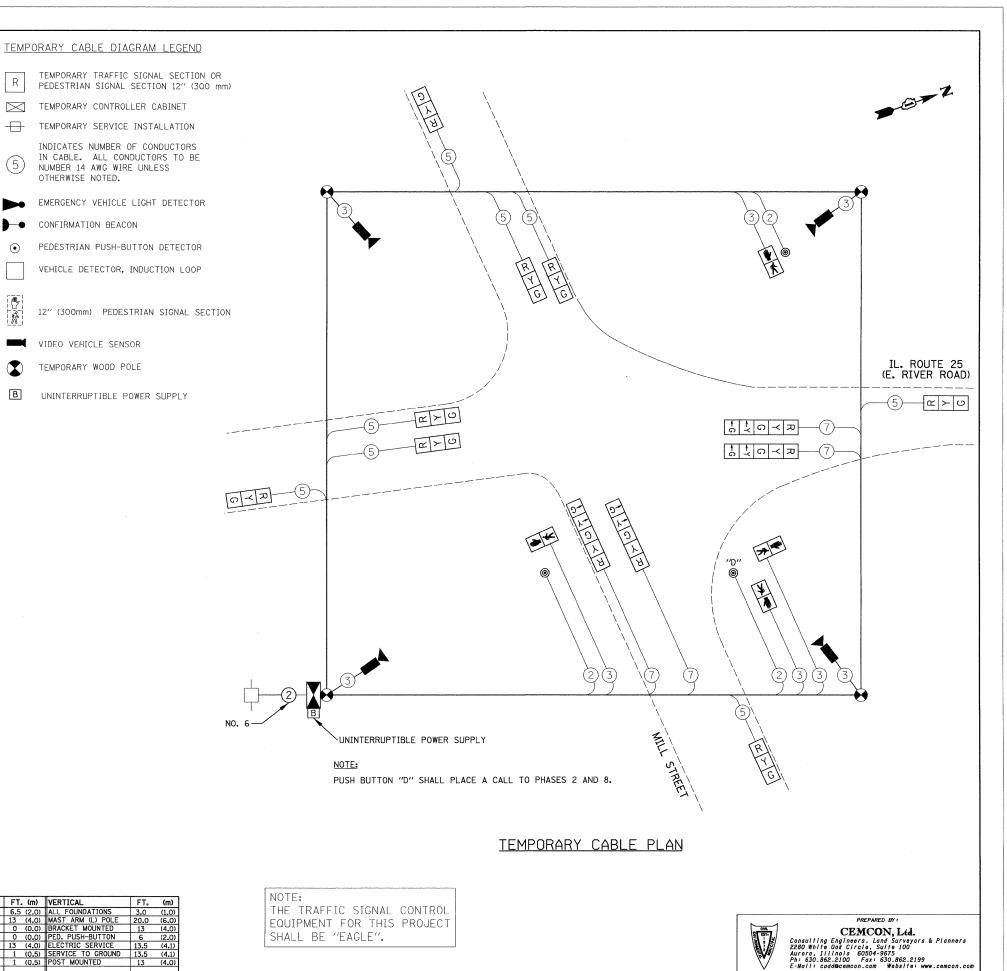
REVISED

I.D.O.T

PLOT SCALE = 1'=20'

PLOT DATE = Ø1-23-Ø9

FILE NAME = \MICROST\352Ø69\IL 25 @ MIL RD TEMP CAB.DGN



TEMPORARY CABLE PLAN
AND PHASE DESIGNATION DIAGRAM
IL. ROUTE 25 (E. RIVER ROAD) AT MILL STREET

F.A.P. RTE.

SECTION

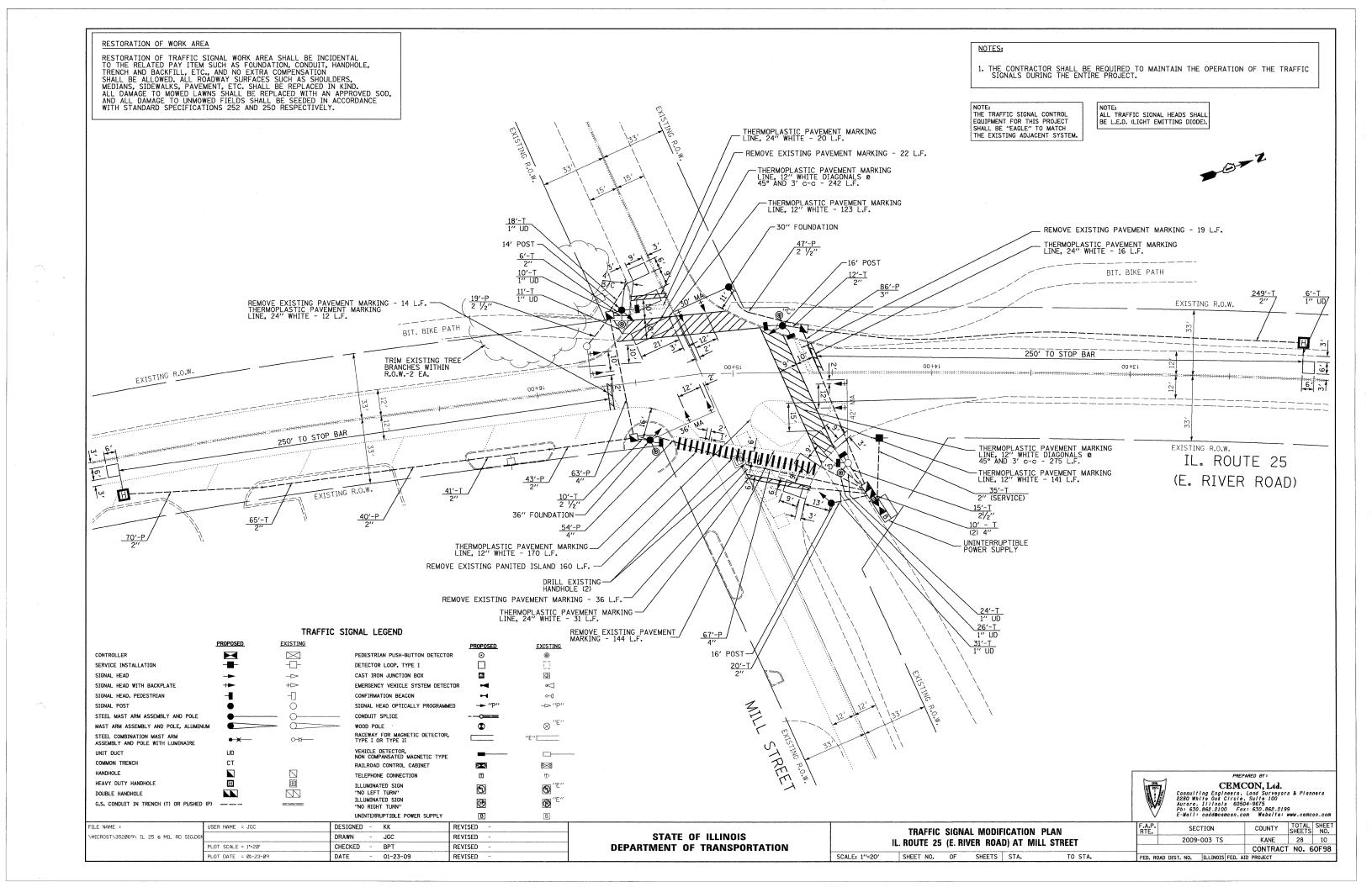
2009-003 TS

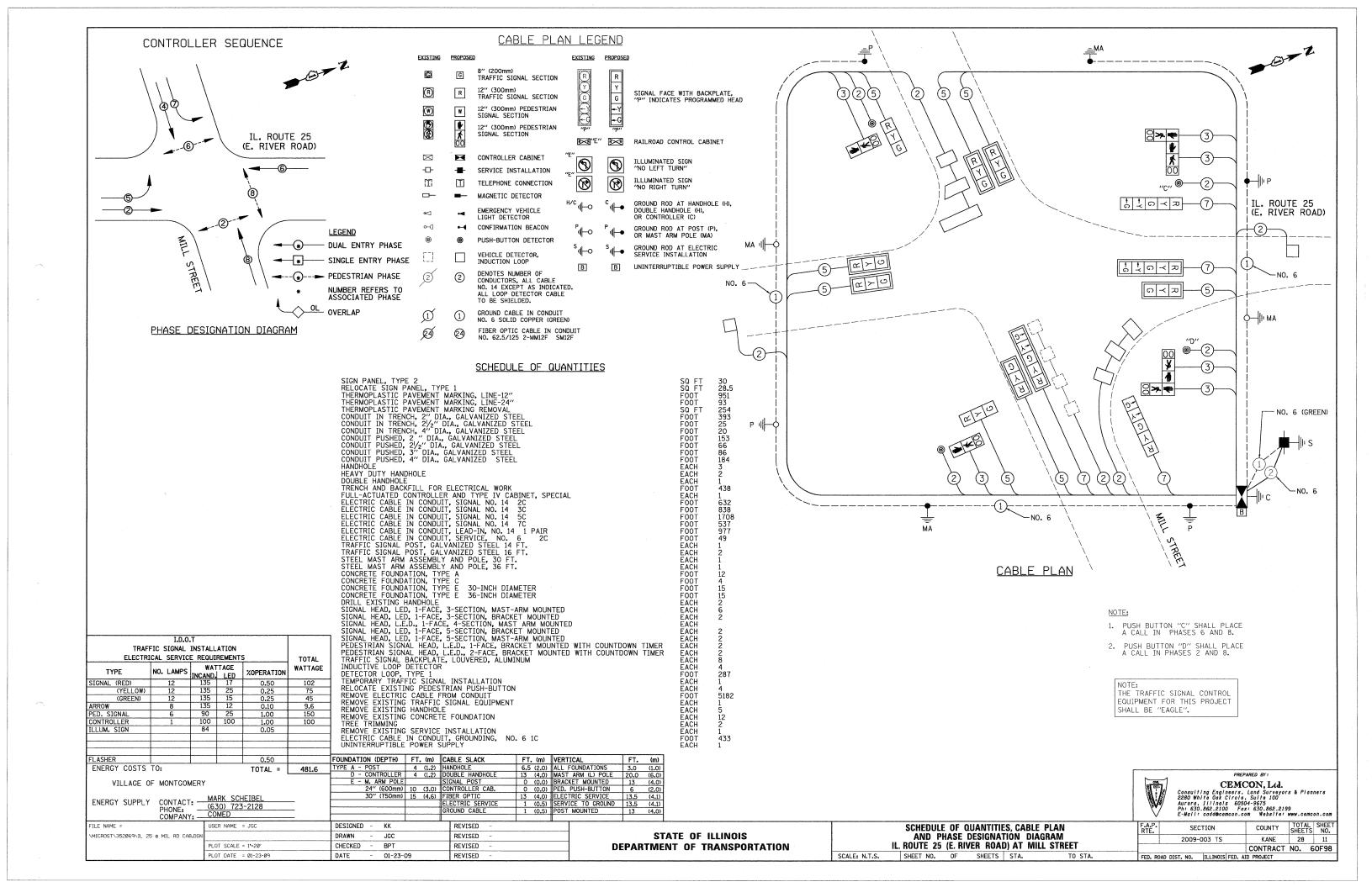
FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

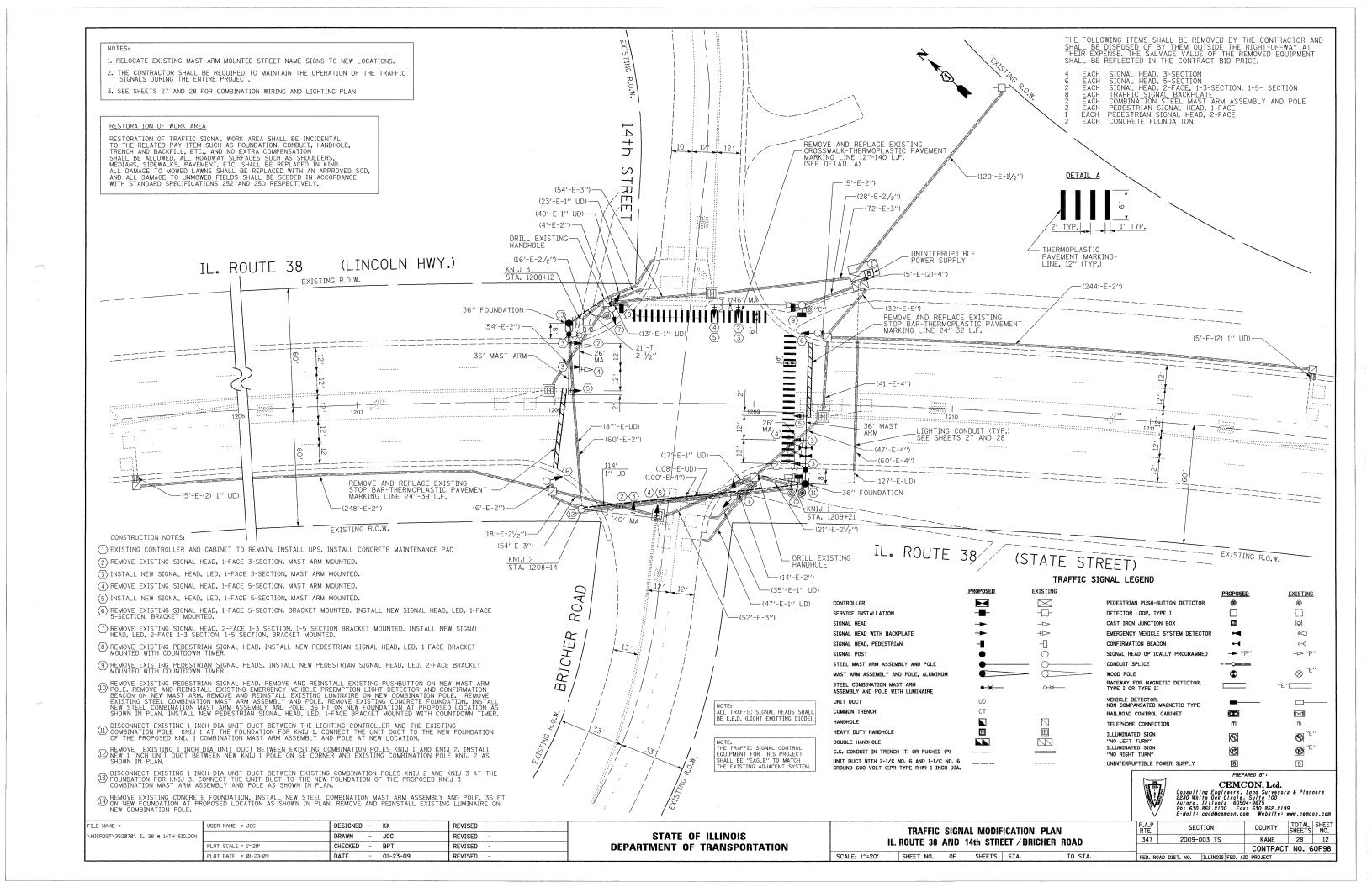
COUNTY

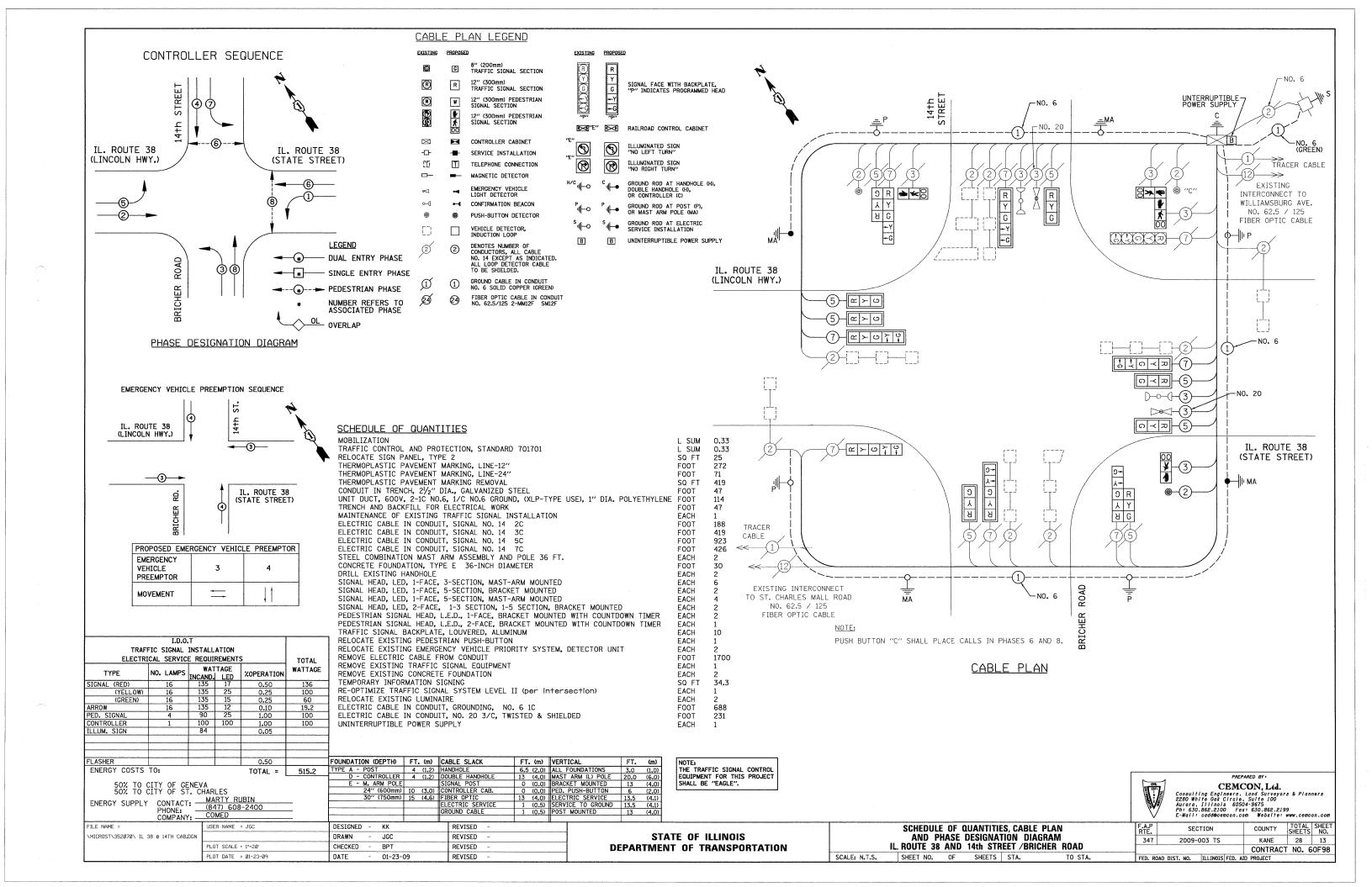
KANE 28 9

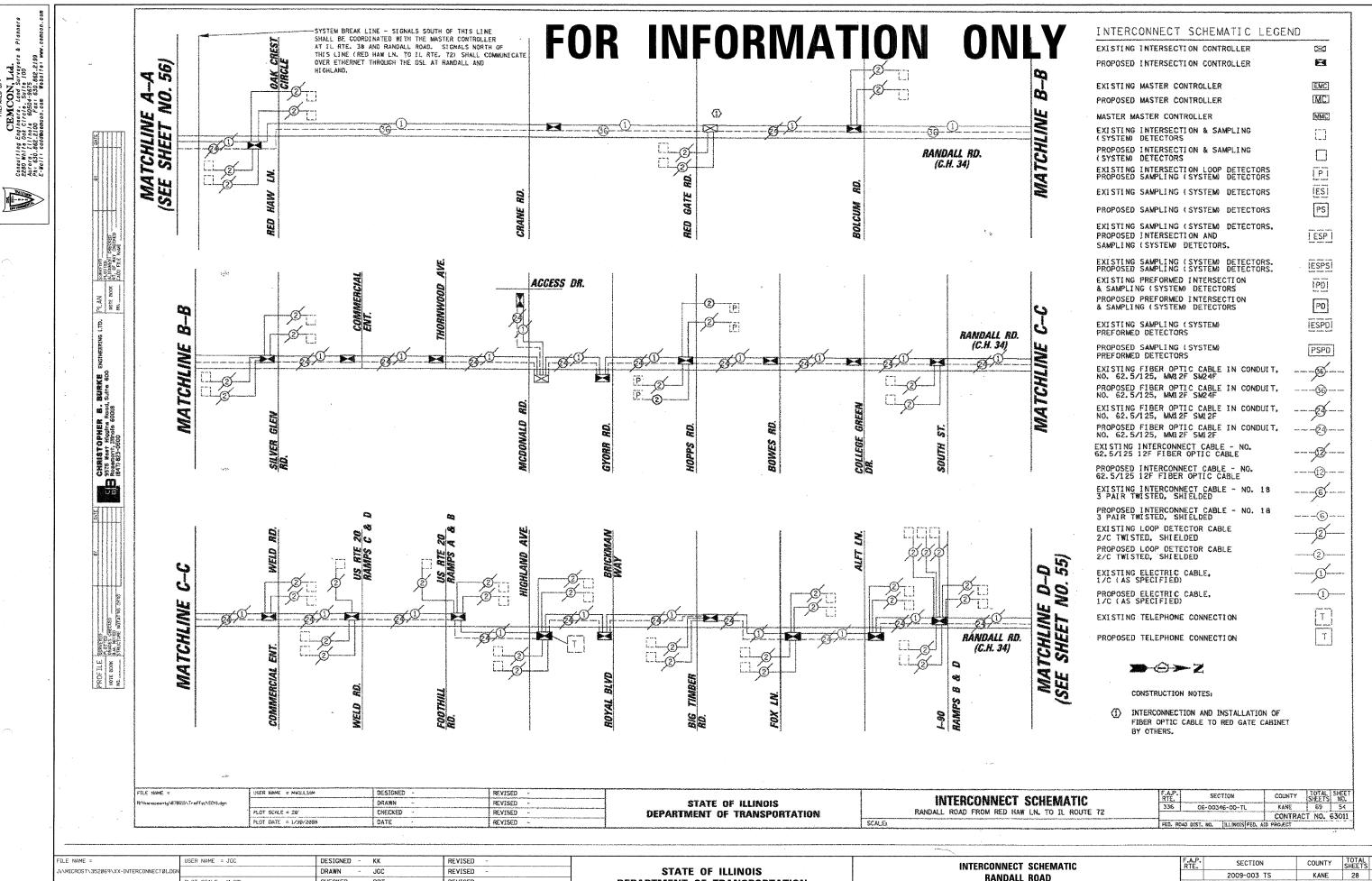
CONTRACT NO. 60F98





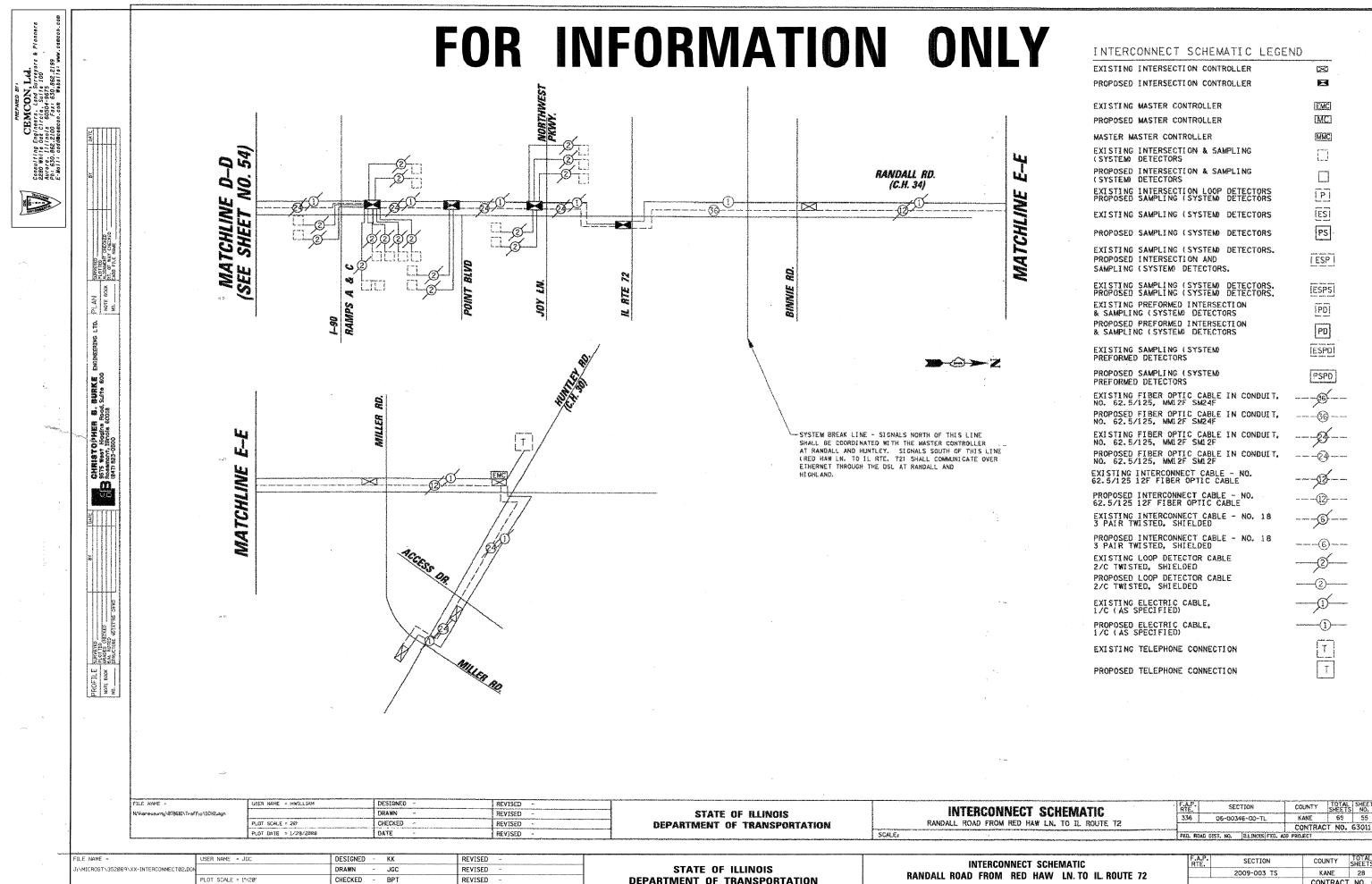






FILE NAME =	USER NAME = JGC	DESIGNED -	KK	REVISED -			iai		F.A.P.	SI			
J:\MICROST\352Ø69\XX-INTERCONNECTØ1.DGN		DRAWN -	JGC	REVISED -	STATE OF ILLINOIS		INTERCONNECT SCHEMATIC RANDALL ROAD					NIE.	2009
	PLOT SCALE = 1'=20'	CHECKED -	BPT	REVISED -	DEPARTMENT OF TRANSPORTATION			KAI	NUALL KU	IAU			
	PLOT DATE = Ø1-23-Ø9	DATE -	01-23-09	REVISED -		SCALE: N.T.S.	SHEET NO.	0F	SHEETS	STA.	TO STA.	FED. ROAD DIST.	. NO.

CONTRACT NO. 60F98



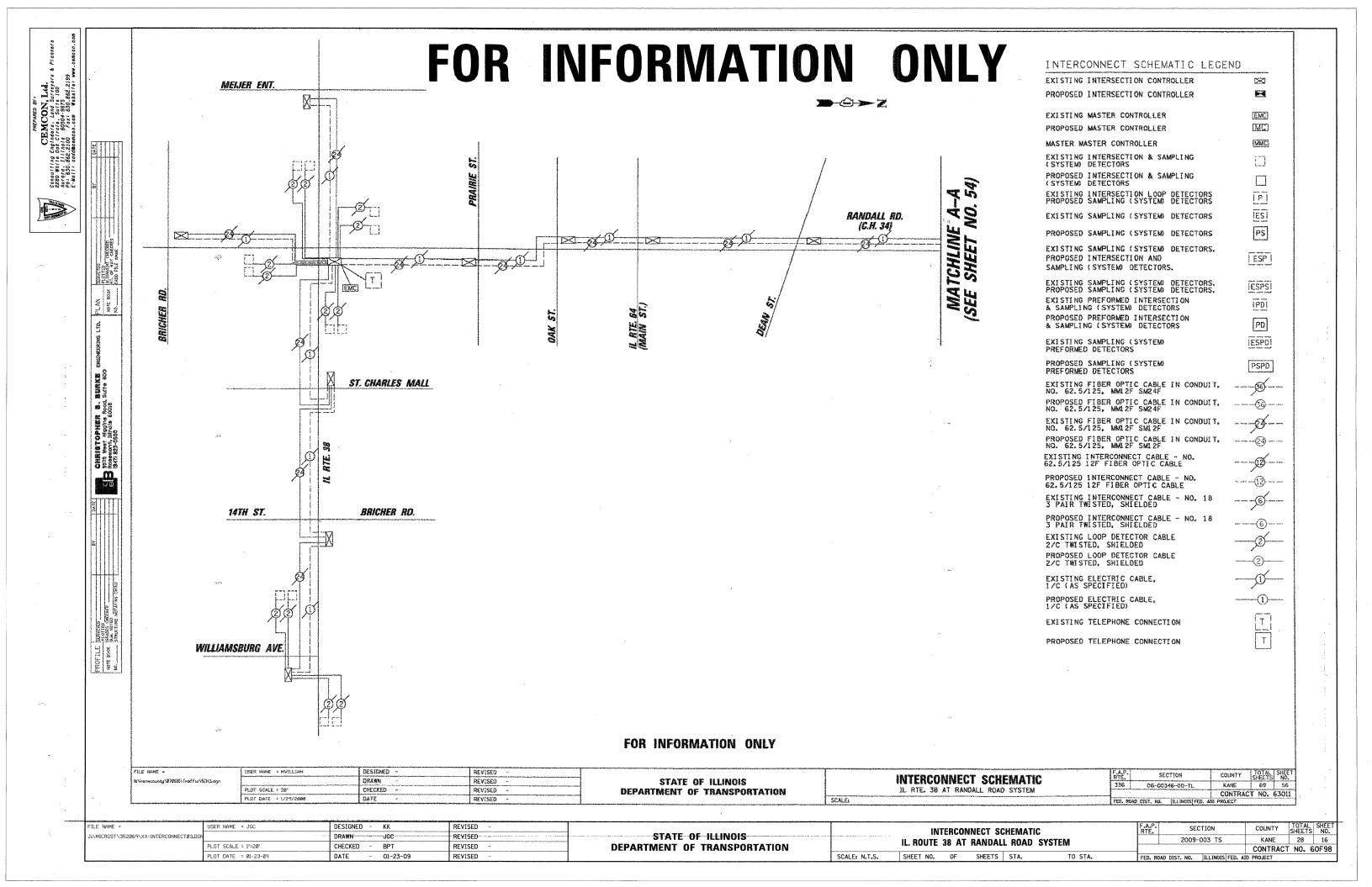
 $\otimes$ B EMC MC MMC PI ES PS ESP [ESPS [PD] PD ESPD PSPD -66)----29---

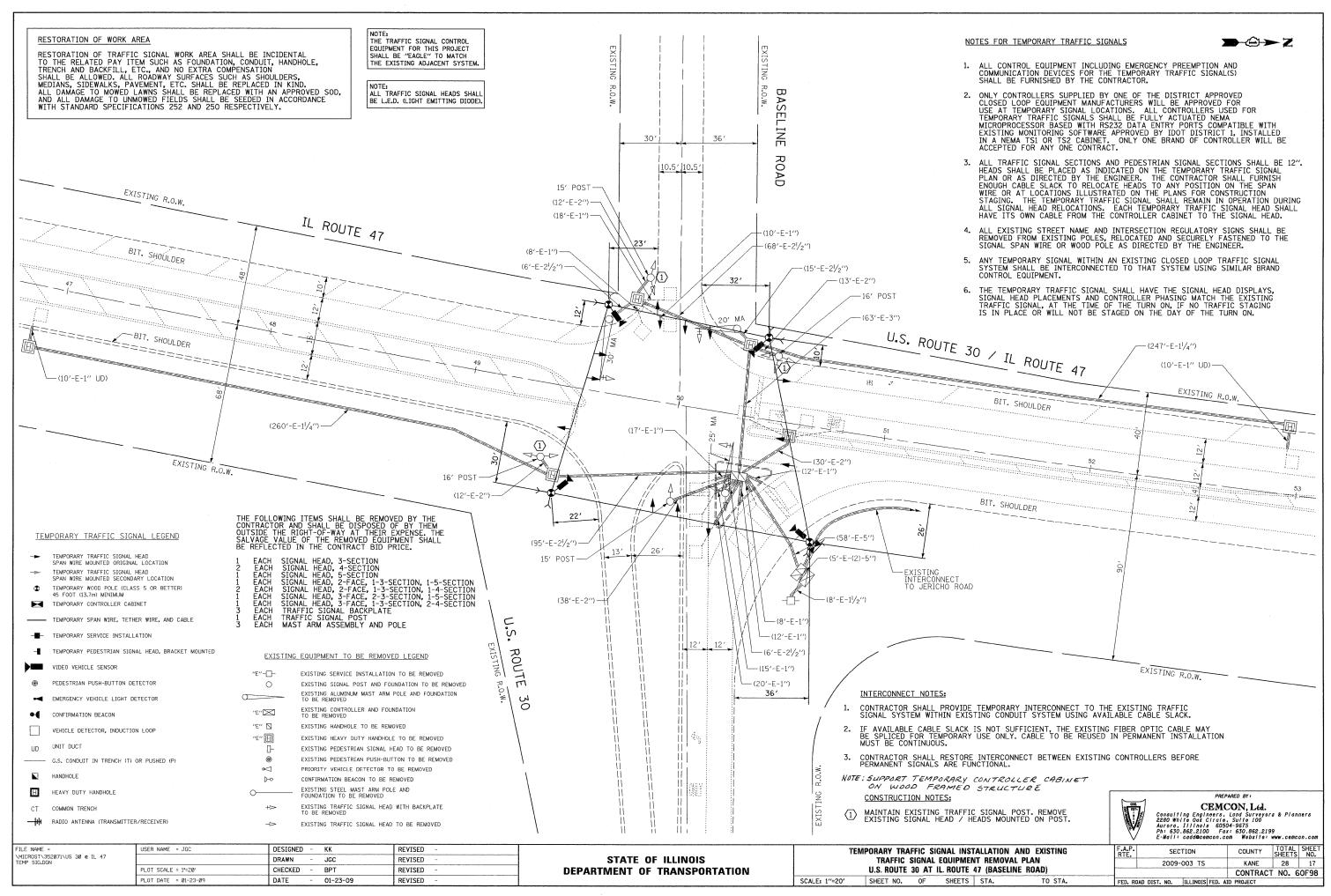
PLOT DATE = Ø1-23-Ø9 DATE 01-23-09 REVISED

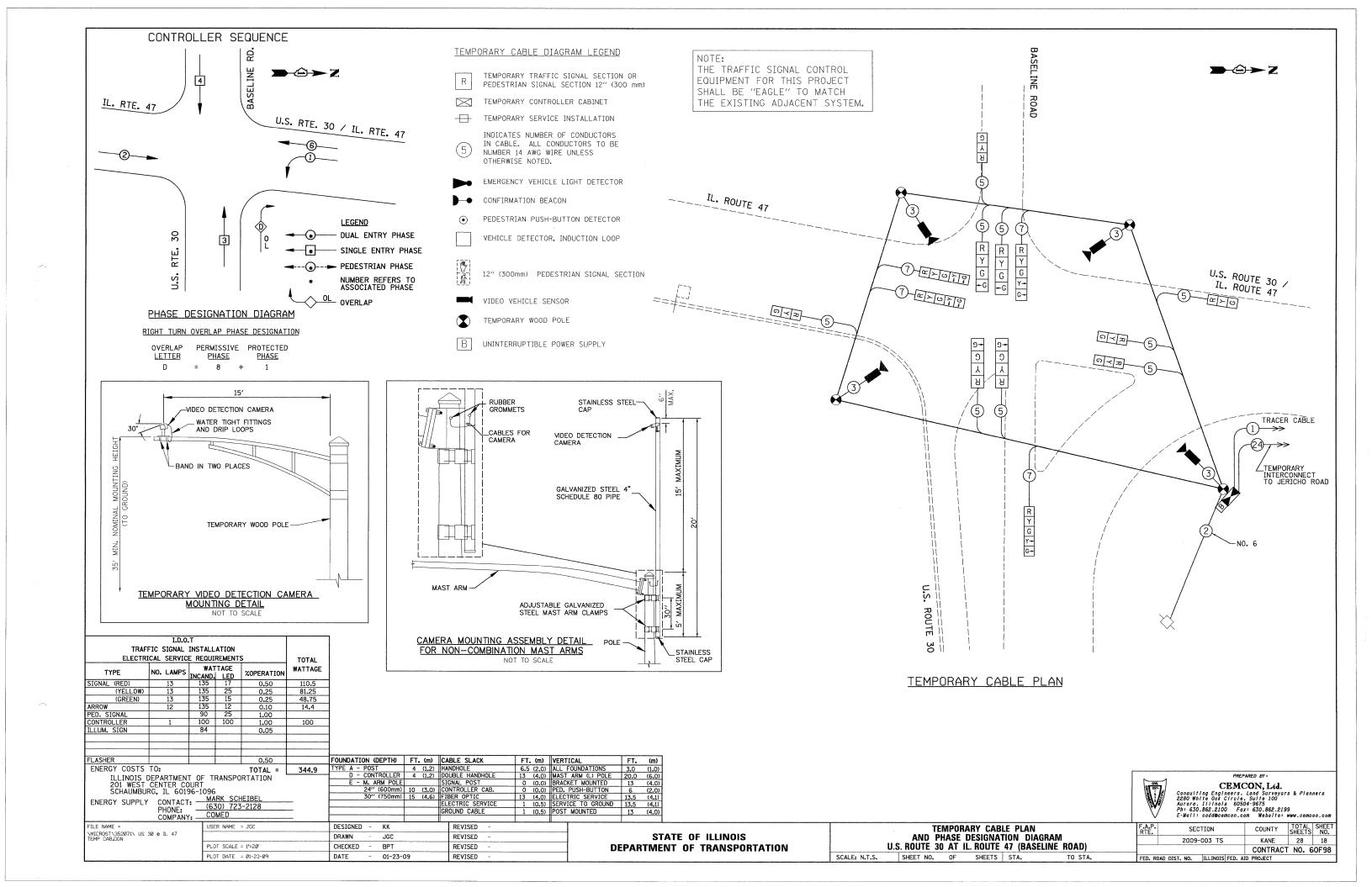
**DEPARTMENT OF TRANSPORTATION** 

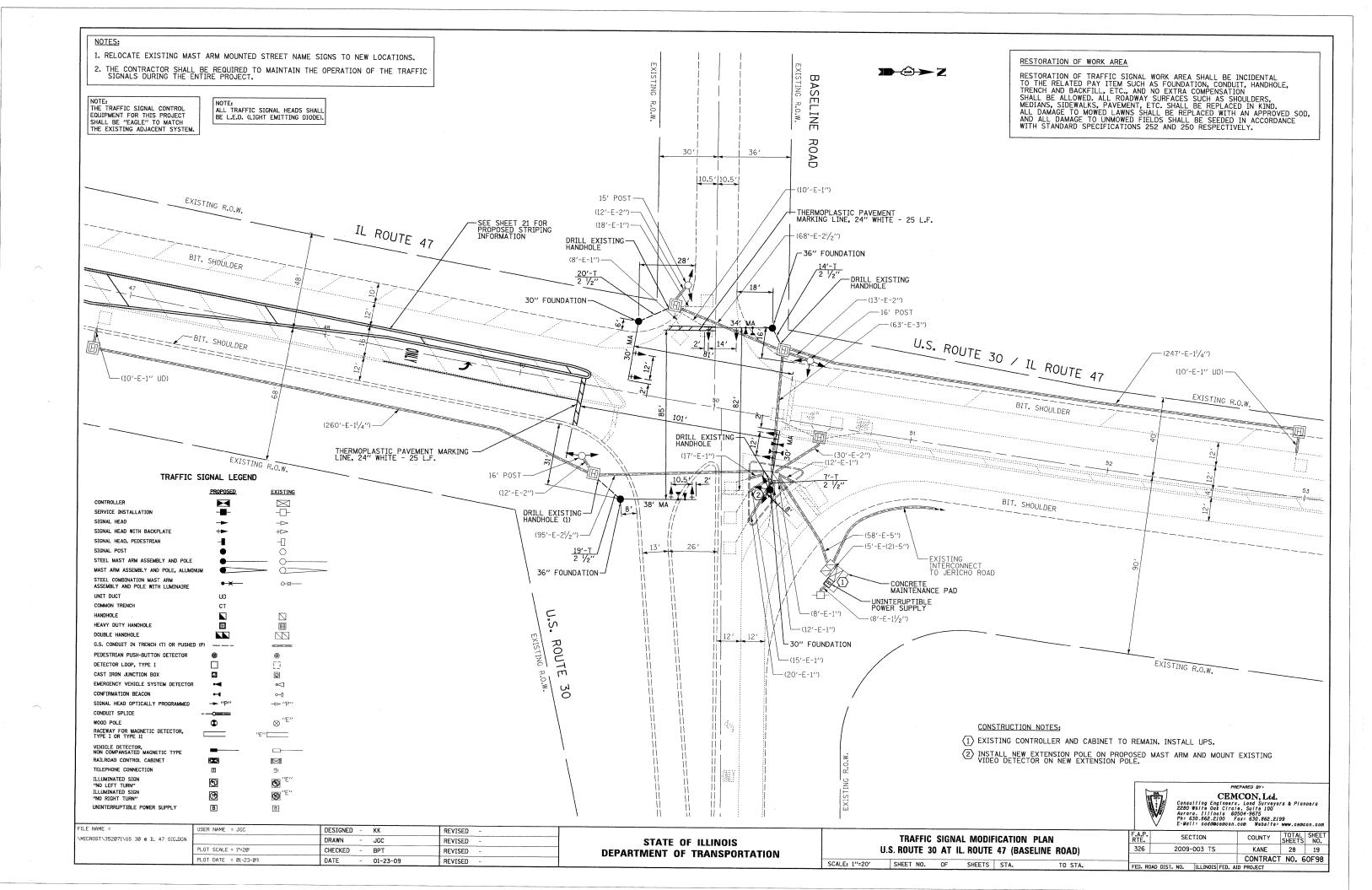
SHEET NO. OF SHEETS STA.

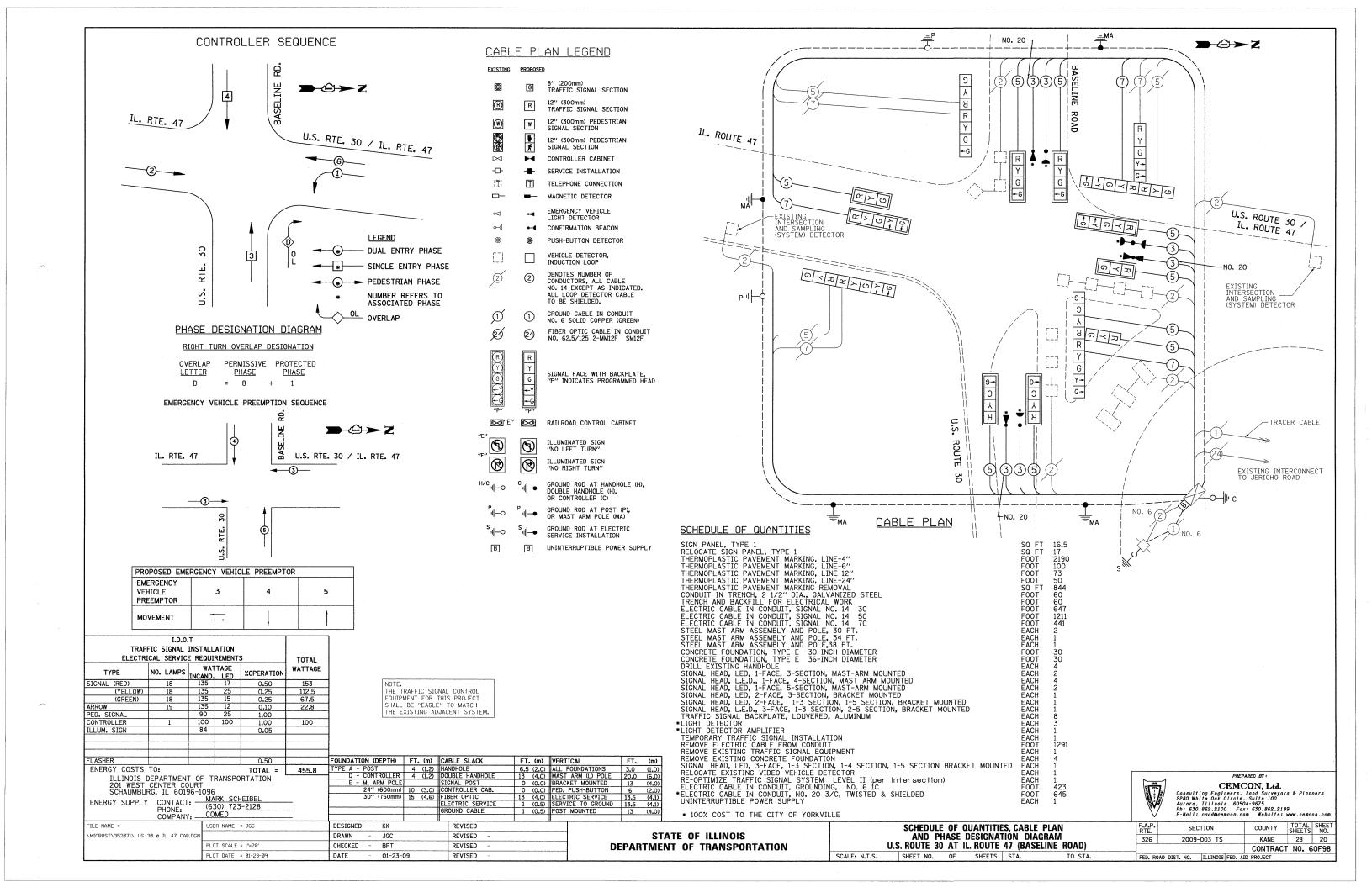
COUNTY KANE CONTRACT NO. 60F98

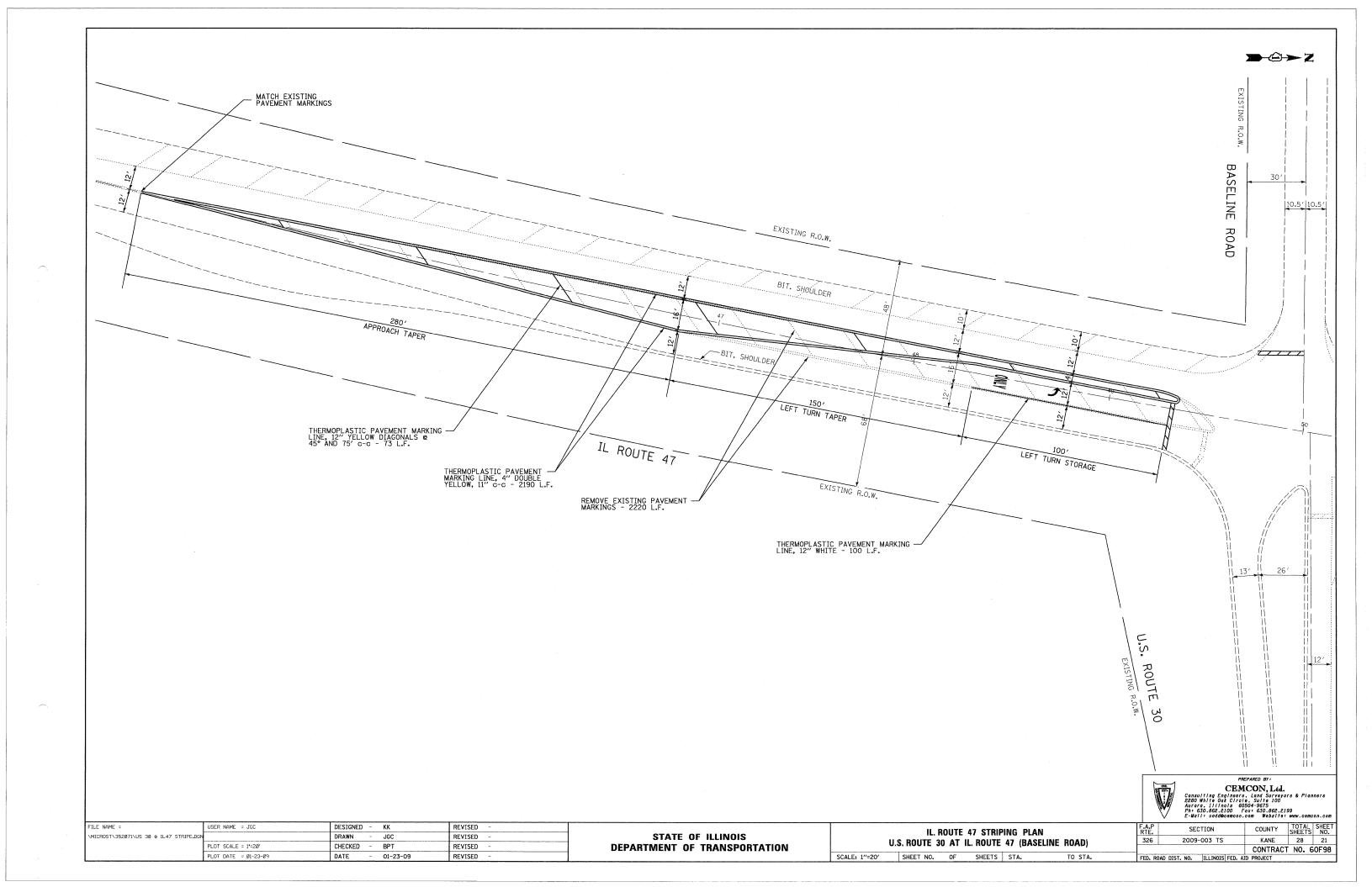






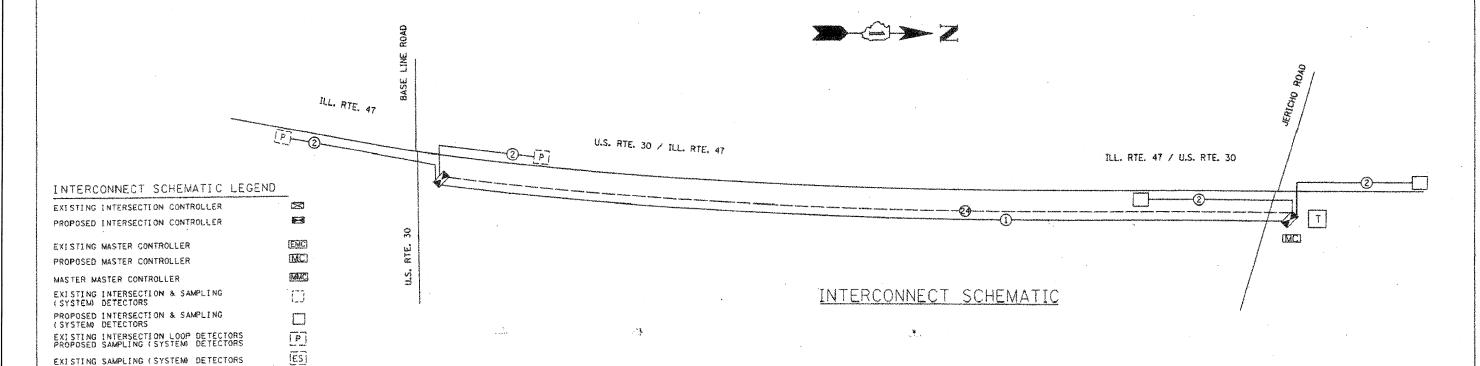








# FOR INFORMATION ONLY



REVISIONS IL
NAME DATE

J N

BAS

SCALE

ILLINOIS DEPARTMENT OF TRANSPORTATION
INTERCONNECT SCHEMATIC
INTERCONNECT SCHEDULE OF QUANTITIES
ILL. RTE. 47 FROM
BASE LINE RD. ZU. S. RTE. 30 JUNCTION
TO JERICHO RD.

SCALE: 1" = 50'

DRAWN BY: CUS DESIGNED BY: AFF ONECKED BY: AFF

FILE NAME	USER NAME = JGC	DESIGNED	-	KK	REVISED	-	
J:\MICROST\352069\XX-INTERCONNECT04.DGN		DRAWN	-	JGC	REVISED	-	i
	PLOT SCALE = 1*=20"	CHECKED	-	BPT	REVISED	-	l
	PLOT DATE = Ø1-23-Ø9	DATE	-	01-23-09	REVISED	-	i

PS

ESP

ESPSI

POI

PD IESPO

PSPD

PROPOSED SAMPLING (SYSTEM) DETECTORS

EXISTING SAMPLING (SYSTEM) DETECTORS.

EXISTING SAMPLING (SYSTEM) DETECTORS. PROPOSED SAMPLING (SYSTEM) DETECTORS.

PROPOSED FIBER OPTIC CABLE IN CONDUIT. NO. 52.5/125, MMI2F SMI2F EXISTING 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 TELEPHONE CONNECTION
PROPOSED TELEPHONE CONNECTION

EXISTING ELECTRIC CABLE. 1/C (AS SPECIFIED)

EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS

PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS

EXISTING SAMPLING (SYSTEM)
PREFORMED DETECTORS

PROPOSED SAMPLING (SYSTEM)
PREFORMED DETECTORS

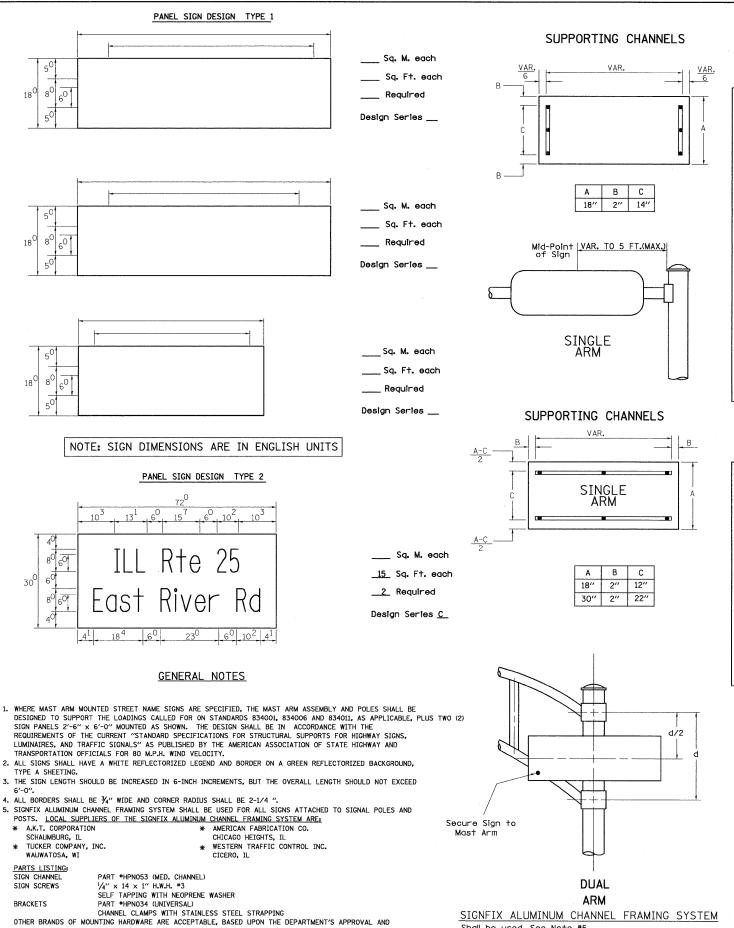
PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC

IL. RTE. 47 FROM BASE LINE RD./U.S. RTE. 30 JUNCTION TO JERICHO RD.

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



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

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

UPPER AND LOWER CASE LETTER WIDTHS

							SEC	ONE	L	ETT	ER						
		a c g (	d e	b h m n i	ikl	f	w	j		s	+	v	У	>	<	ā	Z
	SERIES	С	D-	С	D	С	D	С	D	С	D	С	D	С	D	С	D
	AWX	12	14	14	15	12	14	06	10	1 <sup>1</sup>	14	06	10	1 <sup>1</sup>	12	12	14
	В	14	15	20	2 <sup>1</sup>	14	1 <sup>5</sup>	11	12	14	1 <sup>5</sup>	12	14	1 <sup>2</sup>	14	16	17
	CEG	14	15	20	2 <sup>1</sup>	1 <sup>2</sup>	14	06	10	1 <sup>2</sup>	14	1 <sup>2</sup>	14	14	15	14	1 <sup>5</sup>
F	DOQR	14	15	20	2 <sup>1</sup>	14	1 <sup>5</sup>	06	10	12	14	12	14	14	15	14	15
I R	F	05	06	14	1 <sup>5</sup>	06	10	05	06	06	10	06	10	06	10	1 <sup>1</sup>	1 <sup>2</sup>
F I R S T	HIMN	20	2 <sup>1</sup>	2 <sup>2</sup>	24	20	2 <sup>1</sup>	14	15	16	17	16	17	20	2 <sup>1</sup>	20	2 <sup>1</sup>
	JU	20	2 1	20	21	16	17	14	15	16	17	16	17	16	17	20	2 <sup>1</sup>
L E T T E R	K L	1 <sup>1</sup>	1 <sup>2</sup>	16	17	11	12	05	06	11	12	11	12	1 <sup>1</sup>	12	12	14
+	Р	12	14	14	1 <sup>5</sup>	12	14	05	06	1 <sup>1</sup>	12	1 <sup>1</sup>	12	12	14	12	14
E R	S	1 <sup>2</sup>	14	16	17	1 <sup>2</sup>	14	06	10	1 <sup>2</sup>	14						
	Т	1 <sup>1</sup>	1 <sup>2</sup>	16	17	06	10	06	10	11	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	12	12	14
	٧	0 0	10	14	15	11	1 <sup>2</sup>	06	10	12	14	12	14	1 <sup>2</sup>	14	12	14
	Υ	05	06	14	1.5	06	10	05	06	05	07	05	06	06	10	11	12
	Z	16	17	2 <sup>2</sup>	24	16	17	12	14	16	17	16	17	16	17	20	2 <sup>1</sup>

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

							SE	CON	ND.	LET	TE	?					
		a c		ш n t b h		f	w		I	s	+	v	У	>	<	2	z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
FIRS	adhgij Imnqu	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
S	bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
T	СӨ	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
F	r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
ETT	† z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
Ė	v y	11	12	14	15	11	12	05	0e	06	10	06	10	11	12	11	12
l rt	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"

ſ												SE	CO	ND	NL	ΙМВ	ER							
١					(	)		1	2	2		3	4	4	į	5	6	3	-	7	8	3	(	9
1		SE	RI	ES	С	D	С	D	С	D	С	D	C	D	С	D	С	D	С	D	С	D	С	D
l	F I	0	9		16	17	1 <sup>6</sup>	17	14	1 <sup>5</sup>	1 <sup>2</sup>	14	14	15	14	1 <sup>5</sup>	1 <sup>6</sup>	17	12	14	16	17	16	17
1	R S	1			2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	16	17	14	15	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	14	1 <sup>5</sup>	20	2 <sup>1</sup>	20	2 <sup>1</sup>
ļ	T	2	3	4	14	15	14	1 <sup>5</sup>	14	15	1 <sup>2</sup>	14	12	14	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>1</sup>	12	1 <sup>6</sup>	17	14	1 <sup>5</sup>
	N	5			14	1 <sup>5</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>1</sup>	12	1 <sup>1</sup>	12	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>
	M B	6			16	17	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	1 <sup>2</sup>	14	14	1 <sup>5</sup>	14	1 <sup>5</sup>	11	12	14	1 <sup>5</sup>	14	1 <sup>5</sup>
	E R	7			1 <sup>2</sup>	14	1 <sup>2</sup>	14	14	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	06	12	14	14	1 <sup>5</sup>	1 <sup>1</sup>	12	14	1 <sup>5</sup>	1 <sup>2</sup>	14
		8			1 <sup>6</sup>	17	1 <sup>6</sup>	17	14	1 <sup>5</sup>	12	1 <sup>5</sup>	12	14	14	1 <sup>5</sup>	1 <sup>6</sup>	17	12	14	1 <sup>6</sup>	17	14	1 <sup>5</sup>

L E T E R <sub>S</sub>		i upper Letters		H UPPER LETTERS	L E T T E R		LOWER
T E	SEF	RIES	SE	RIES	T E	SEI	RIES
R S	С	D	С	D	R S	С	D
Α	36	50	5 <sup>0</sup>	6 <sup>5</sup>	a	35	42
В	32	40	4 3	53	Ь	35	42
С	32	40	43	53	0	35	41
D	3 <sup>2</sup>	40	43	53	d	35	42
E	30	35	40	47	е	35	42
F	3 <sup>0</sup>	35	40	47	f	2 3	26
G	3 <sup>2</sup>	40	43	5 <sup>3</sup>	g	35	42
Н	3 <sup>2</sup>	40	43	53	h	35	42
I	07	07	11	12	Ť	1 <sup>1</sup>	1 1
J	30	36	40	5 <sup>0</sup>	J	20	22
K	32	41	43	54	k	35	42
L	30	3 <sup>5</sup>	40	47	ı	11	11
М	37	45	5 <sup>1</sup>	61	m	6 o	70
N	32	40	43	53	n	35	42
0	34	42	4 5	5 <sup>5</sup>	0	36	43
Р	3 <sup>2</sup>	40	4 3	5 <sup>3</sup>	р	35	4 <sup>2</sup>
Q	34	42	45	55	q	35	42
R	3 <sup>2</sup>	40	43	5 <sup>3</sup>	r	26	32
S	32	40	43	53	8	36	42
Т	30	35	40	47	+	27	32
U	3 <sup>2</sup>	40	4 3	53	u	35	42
٧	35	44	47	60	٧	42	47
w	44	5 <sup>2</sup>	60	70	w	55	64
х	34	40	45	5 <sup>3</sup>	×	4 4	5 <sup>1</sup>
Υ	36	50	5 0	66	У	46	53
Z	3 <sup>2</sup>	40	43	53	z	36	43

NUM	6 INCH	SERIES	8 INCH	SERIES
NU <sub>MBER</sub>	С	D	С	D
1	12	14	15	20
2	3 <sup>2</sup>	40	43	5 <sup>3</sup>
3	32	40	43	5 3
4	3 <sup>5</sup>	43	47	57
5	3 <sup>2</sup>	40	43	5 <sup>3</sup>
6	3 <sup>2</sup>	40	43	53
7	3 <sup>2</sup>	40	43	53
8	3 <sup>2</sup>	40	43	5 <sup>3</sup>
9	3 <sup>2</sup>	40	43	5 <sup>3</sup>
0	34	4 <sup>2</sup>	45	5 <sup>5</sup>



CEMCON, Led.

Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100 Aurora, Ilinois 80504-9675 Ph: 630.862.2199 E-Mail: cadd@cemacon.com Website: www.comcon.com Shall be used. See Note #5. SECTION MAST ARM MOUNTED STREET NAME SIGN STATE OF ILLINOIS

FILE NAME =	USER NAME = JGC	DESIGNED	-	KK	REVISED -
\MICROST\352069\ STREET NAME 25.DGN		DRAWN	-	JGC	REVISED -
	PLOT SCALE = 1*=20'	CHECKED		BPT	REVISED -
	PLOT DATE = 01-23-09	DATE		01-23-09	REVISED -

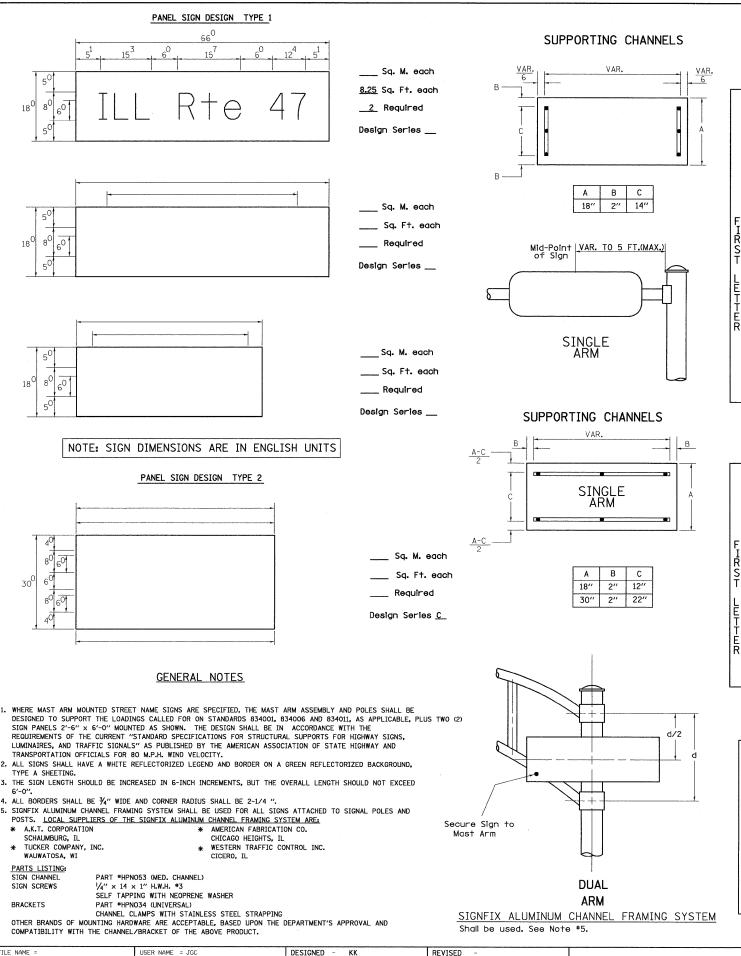
COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

**DEPARTMENT OF TRANSPORTATION** 

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM

IL. ROUTE 25 (E. RIVER ROAD) AT MILL STREET SCALE: N.T.S. SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEET NO. KANE 28 23 2009-003 TS CONTRACT NO. 60F98 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



Upper Case To Lower Case

Spacing Chart 8-6 Inch Series "C & D"

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

UPPER AND LOWER CASE LETTER WIDTHS

		SECOND LETTER														
		d e p q	b h m n i		f	w		i	s	†	٧	У	>	<	1	Z
SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
A W X	12	14	14	15	12	14	06	10	11	14	06	10	1 <sup>1</sup>	12	12	14
В	14	15	20	21	14	15	11	12	14	1 <sup>5</sup>	12	14	12	14	16	17
CEG	14	15	20	21	1 <sup>2</sup>	14	06	10	12	14	1 <sup>2</sup>	14	14	1 <sup>5</sup>	14	1 <sup>5</sup>
DOQR	14	15	20	21	14	1 <sup>5</sup>	06	10	1 <sup>2</sup>	14	1 <sup>2</sup>	14	14	1 <sup>5</sup>	14	15
F	05	06	14	15	06	1 <sup>0</sup>	05	06	06	10	06	10	06	10	11	1 <sup>2</sup>
HIMN	20	21	22	24	20	2 <sup>1</sup>	14	1 <sup>5</sup>	16	17	16	17	20	2 <sup>1</sup>	20	21
JU	20	21	20	2 <sup>1</sup>	1 <sup>6</sup>	17	14	1 <sup>5</sup>	16	17	16	17	1 <sup>6</sup>	17	20	2 <sup>1</sup>
K L	11	12	16	17	11	12	05	06	11	1 <sup>2</sup>	11	1 <sup>2</sup>	11	12	1 <sup>2</sup>	14
Р	12	14	14	1 <sup>5</sup>	1 <sup>2</sup>	14	05	06	11	1 <sup>2</sup>	11	12	12	14	1 <sup>2</sup>	14
S	12	14	16	17	1 <sup>2</sup>	14	06	1 <sup>0</sup>	1 <sup>2</sup>	14						
T	11	12	16	17	06	10	06	1 <sup>0</sup>	11	12	1 <sup>1</sup>	12	11	12	1 <sup>2</sup>	14
٧ .	06	10	14	15	1 <sup>1</sup>	12	06	10	12	14	12	14	12	14	1 <sup>2</sup>	14
Υ	05	06	14	15	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	2 <sup>2</sup>	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"

							SE	COI	۷D	LET	TEF	₹					
		a c		b h m n i		f	w		ĵ	s	+	v	У	>	<	-	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
FIRST	adhgij Imnqu	16	17	22	24	16	17	12	14	14	15	14	15	16	17	16	17
S	bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
T	СӨ	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
F	r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
JETTER	† z	12	14	16	17	12	14	0e	10	11	12	11	12	12	14	12	14
Ė	νу	11	12	14	15	1 <sup>1</sup>	12	05	06	Oe	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"

										SE	CO	ND	NL	IМВ	ER							
			(	)		1	2	2	,	3	4	4	í	5	(	ŝ	-	7	8	3	9	€
	SE	RIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
F	0	9	16	17	16	17	14	1 <sup>5</sup>	1 <sup>2</sup>	14	14	15	14	1 <sup>5</sup>	1 <sup>6</sup>	17	1 <sup>2</sup>	14	16	17	1 <sup>6</sup>	17
R	1		20	2 <sup>1</sup>	2 <sup>0</sup>	21	20	2 <sup>1</sup>	16	17	14	15	2 <sup>0</sup>	21	2 <sup>0</sup>	21	14	1 <sup>5</sup>	20	2 <sup>1</sup>	20	2 <sup>1</sup>
Ť	2	3 4	14	1 <sup>5</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>	12	14	1 <sup>2</sup>	14	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	16	17	14	1 <sup>5</sup>
N	5		14	1 <sup>5</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>1</sup>	12	11	12	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>1</sup>	12	14	1 <sup>5</sup>	14	1 <sup>5</sup>
M B	6		1 <sup>6</sup>	17	14	1 <sup>5</sup>	14	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	12	14	14	15	14	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	14	1 <sup>5</sup>	14	1 <sup>5</sup>
E R	7		1 <sup>2</sup>	14	1 <sup>2</sup>	14	14	1 <sup>5</sup>	1 <sup>2</sup>	15	05	06	12	14	14	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	14	15	1 <sup>2</sup>	14
	8		16	17	16	17	14	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	12	14	14	15	1 <sup>6</sup>	17	12	14	16	17	14	15

L E T E R S		i upper Etters		H UPPER LETTERS	L E T	6 INCH CASE L	LOWER ETTERS
T E	SEF	RIES	SE	RIES	T E	SE	RIES
R S	C	D	С	D	E T T E R S	С	D
Α	36	50	5 <sup>0</sup>	6 <sup>5</sup>	a	35	42
В	32	40	43	53	b	35	42
С	3 <sup>2</sup>	40	43	5 <sup>3</sup>	С	35	41
D	3 <sup>2</sup>	40	4 3	53	d	35	4 <sup>2</sup>
E	30	35	40	47	е	3 <sup>5</sup>	42
F	30	35	40	47	f	2 <sup>3</sup>	26
G	3 <sup>2</sup>	40	43	53	g	35	42
Н	3 <sup>2</sup>	40	43	53	h	35	42
I	0 7	07	11	12	1	11	1 1
J	30	3 <b>6</b>	40	50	j	20	2 <sup>2</sup>
К	32	41	43	5 <sup>4</sup>	k	3 <sup>5</sup>	42
L	30	35	40	47	j	1 <sup>1</sup>	1 <sup>1</sup>
М	37	4 <sup>5</sup>	51	61	В	60	70
N	3 <sup>2</sup>	40	43	53	J	3 <sup>5</sup>	42
0	3 <sup>4</sup>	42	4 <sup>5</sup>	5 <sup>5</sup>	0	36	43
Р	3 <sup>2</sup>	40	43	53	Р	35	42
Q	34	42	45	5 <sup>5</sup>	q	35	42
R	3 <sup>2</sup>	40	43	5 <sup>3</sup>	r	26	32
S	32	40	43	53	8	36	42
Т	30	3 <sup>5</sup>	40	47	+	27	32
U	3 <sup>2</sup>	40	43	53	r.	35	42
٧	3 <sup>5</sup>	4 4	47	6°	٧	42	47
w	44	52	60	70	w	55	64
х	34	40	45	53	×	44	5 <sup>1</sup>
Y	3 <sup>6</sup>	50	5 <sup>0</sup>	6 <sup>6</sup>	У	46	53
Z	3 <sup>2</sup>	40	43	53	z	36	43

N <sub>U,4</sub>	6 INCH	SERIES	8 INCH	SERIES
N <sub>U</sub> M <sub>BER</sub>	С	D	С	D
1	1 <sup>2</sup>	14	15	20
2	3 <sup>2</sup>	40	43	53
3	3 <sup>2</sup>	40	43	53
4	35	43	47	57
5	3 <sup>2</sup>	40	43	53
6	32	40	43	53
7	3 <sup>2</sup>	40	43	53
8	3 <sup>2</sup>	40	43	5 <sup>3</sup>
9	3 <sup>2</sup>	40	43	53
0	3 4	4 <sup>2</sup>	45	55

F.A.P RTE.

PREPARED BY: CEMCON, Led.

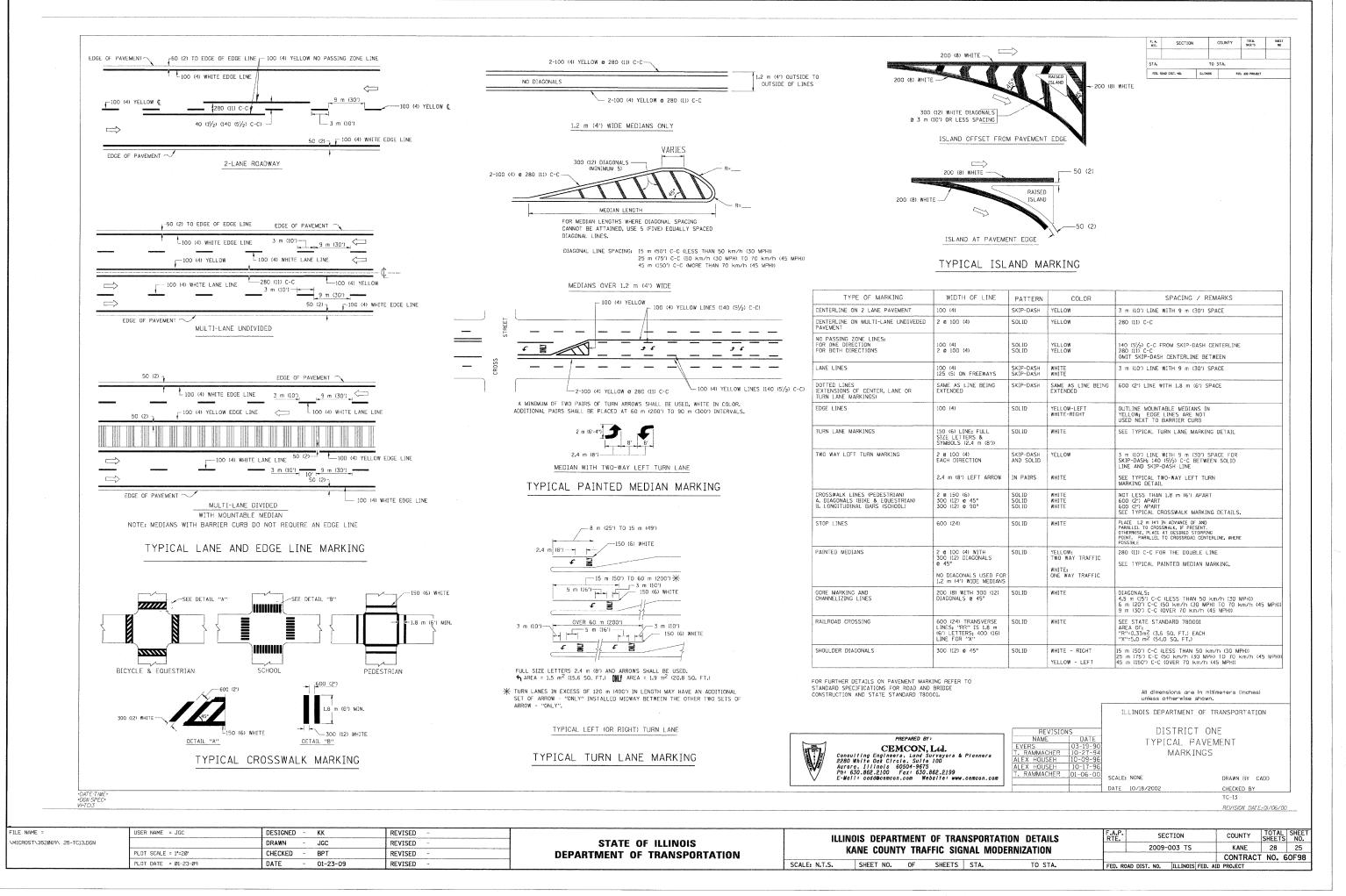
Consulting Engineers, Land Surveyors & Planners 2280 White Ook Circle, Suite 100 Aurors, Illinois 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199 E-Mail: caddoscomoon.com Website: www.cemcon.co.

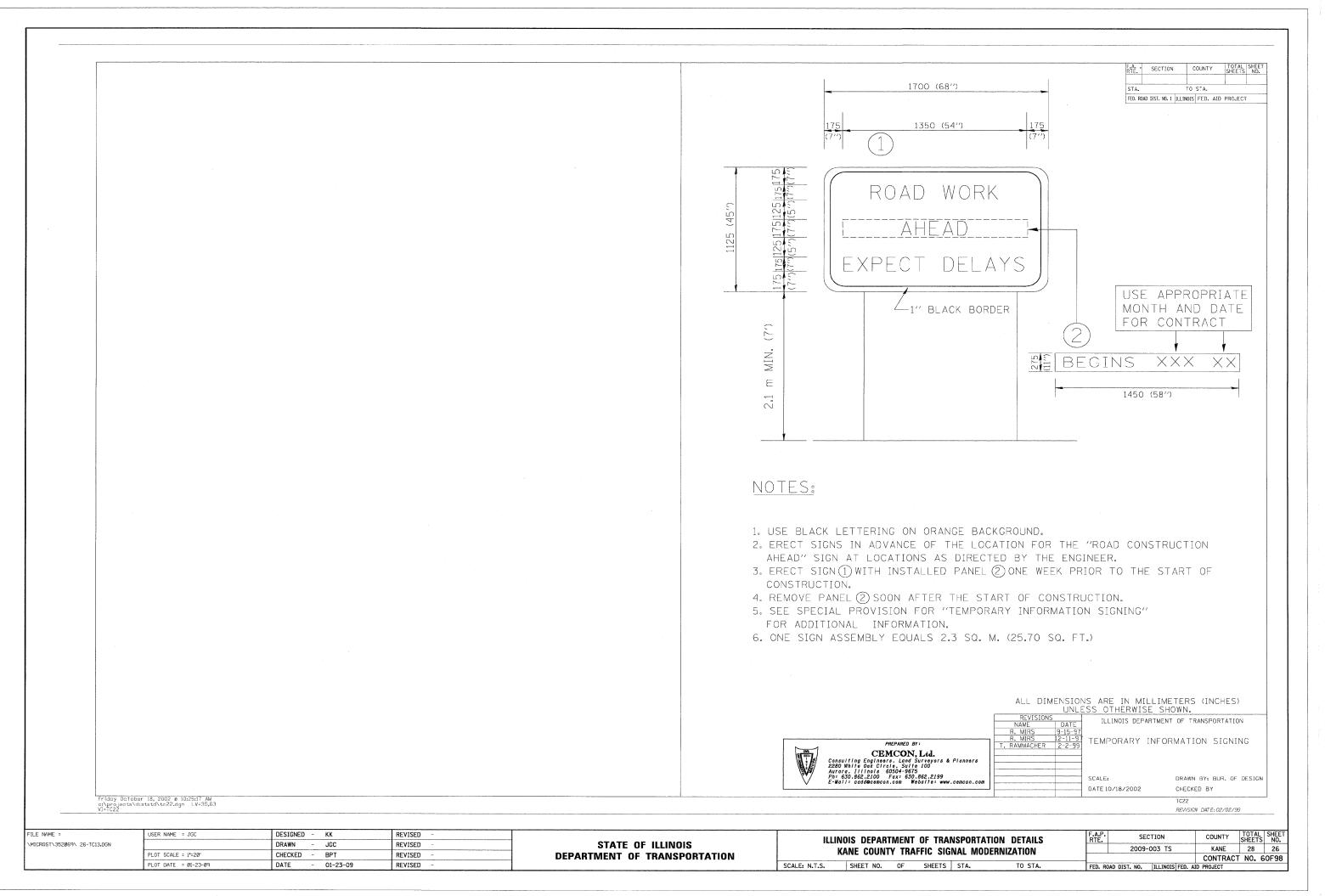
FILE NAME =	USER NAME = JGC	DESIGNED		KK	REVISED -
\MICROST\352069\ STREET NAME 47.DGN		DRAWN	-	JGC	REVISED -
	PLOT SCALE = 1*=20"	CHECKED	-	BPT	REVISED -
	PLOT DATE = 01-23-09	DATE	-	01-23-09	REVISED -

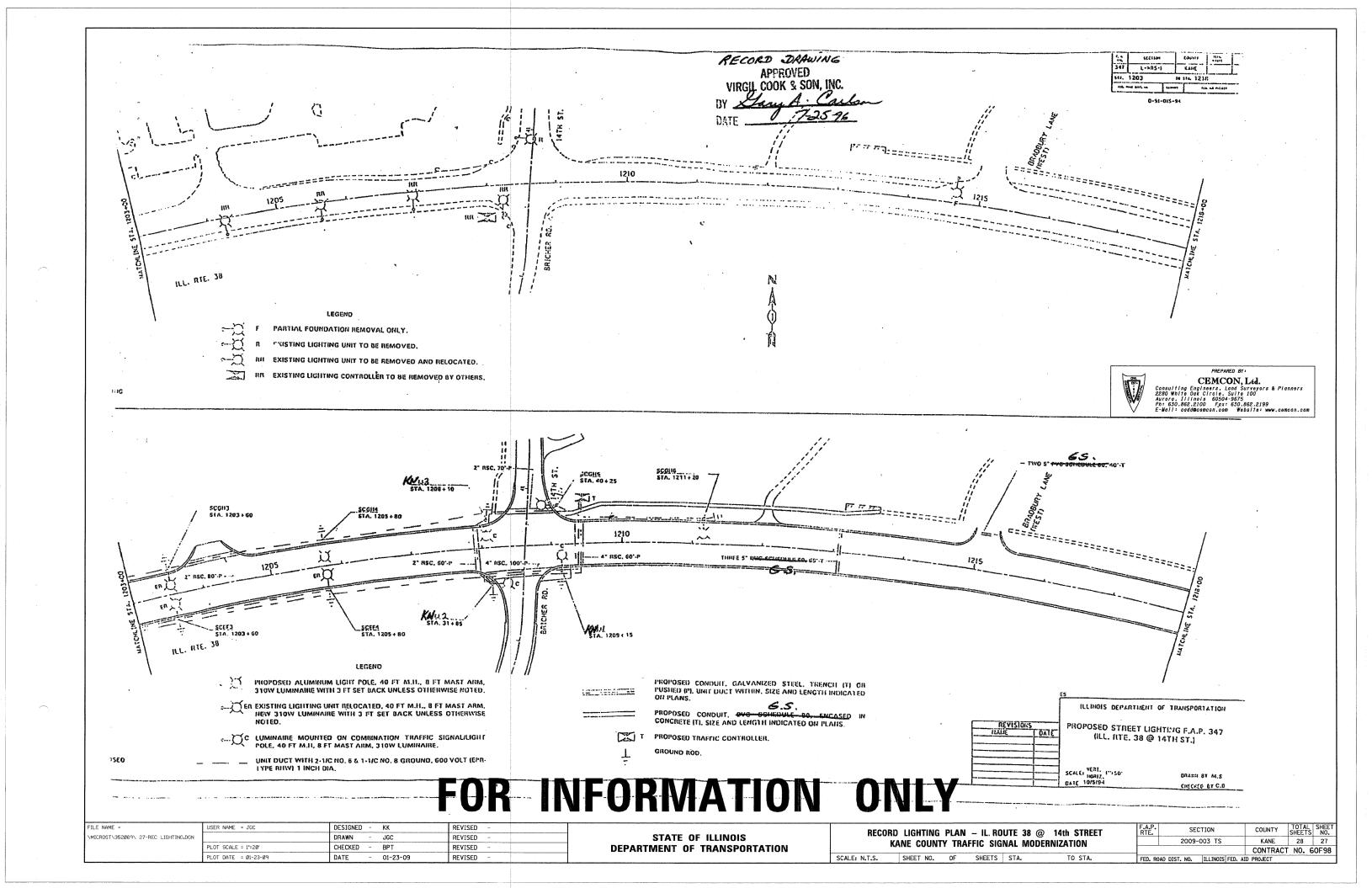
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

MAST ARM MOUNTED STREET NAME SIGN U.S. ROUTE 30 AT IL. ROUTE 47 (BASELINE ROAD) SCALE: N.T.S. SHEET NO. OF SHEETS STA.

V	L muii.	cuoudcomcon.	JUIII	Websile.	www.comc	on.com
?-	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
	2009-003 TS		T	KANE	28	24
				CONTRAC	T NO. 6	OF 98
ROAD	DIST. NO.	ILLINOIS FED.	AID	PROJECT		







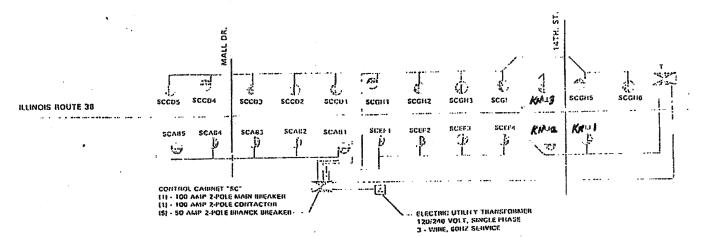
NOTE.

RECORD DAAWING

APPROVED
VIRGIL COOK & SON, INC.
BY Lary A Carlson

WIN BE BLACK ON YELLOW.

2) STATE OF ININOIS "KN"
UNITID WIN BE BLACK
ON SIIVER.



LEGENO

--)@{

LUMINAIRE, 310W H.P.S. CONNECTED TO RED AND BLACK WIRE

7

TRAFFIC CONTROLLER

巡回

ELECTRIC UTILITY PAD MOUNTED TRANSFORMER

CONTROLLER SC"
CIRCUITS PROPOSED
LOAD(AMPS)
SCAB 7.5
SCCD 7.5
SCEF 6
SCGII 9
KWIJ 4.5

COM.

PREPARED BY:

CEMCON, Ltd.

Consulting Engineers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
Ph: 630.362.2109
E-Mail: cadd@cemcon.com Website: www.cemcon.co

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM F.A.P. 347 (ILL. RTE. 38)

LE: VEGT. DRAWN BY
HOME.
F 10/5/34 CHECKED.

## FOR INFORMATION ONLY

FILE NAME ≈	USER NAME = JGC	DESIGNED -	KK	REVISED -
\MICROST\352069\ 28-WIRING DIAGRAM.DGN		DRAWN -	JGC	REVISED -
	PLOT SCALE = 1"=20"	CHECKED ~	BPT	REVISED -
	PLOT DATE = 01-23-09	DATE -	01-23-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM - IL. ROUTE 38 @ 14th STREET KANE COUNTY TRAFFIC SIGNAL MODERNIZATION

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