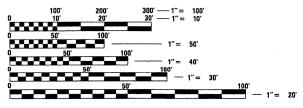
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18.	MAST ARM MOUNTED STREET NAME SIGN 22nd Street at enterprise drive /Jorie Boulevard
19.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

IDOT STANDARDS:

353001-04
424001-05
CURB RAMPS FOR SIDEWALKS
606001-04
701008-03
OFF-RD OPERATIONS, 21, 2W, 15' (4.5 m) 10' 24' (800 mm) FROM PAVEMENT EDGE
0FF-RD OPERATIONS, MULTILARE, 13' (4.5 m) 10' 24' (800 mm) FROM PAVEMENT EDGE
0FF-RD OPERATIONS, MULTILARE, 13' (6.5 m) 10' 24' (800 mm) FROM PAVEMENT EDGE
101801-03
101801-04
LANE CLOSURE, 21, 2W, SHORT TIME OPERATIONS
101801-04
LANE CLOSURE, MULTILARE, 11W OR 2W WITH NONTRAVERSABLE MEDIAN
URBAN LANE CLOSURE, MULTILARE, 11W OR 2W CROSSWALK OR SIDEWALK CLOSURE
101801-01
TRAFFIC CONTROL DEVICES
SIGN PANEL MOUNTING DETAILS
114001-02
STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
114001-02
STANDARD PHASE OESIGNATION DIAGRAMS AND PHASE SEQUENCES
UNINTERRUPTABLE POWER SUPPLY (UPS)
1873001-02
TRAFFIC SIGNAL GROUNDING & BONDING
1877001-04
STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 75'
1877002-01
STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
1877008-03
STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
1870008-03
TRAFFIC SIGNAL MOUNTING DETAILS
DETECTOR LOOP INSTALLATIONS



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.

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

CONTRACT NO. 60117

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

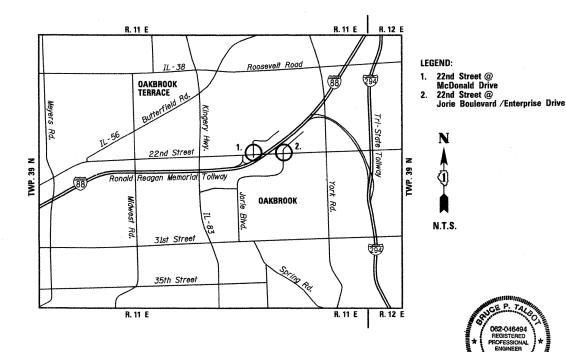
PLANS FOR PROPOSED

F.A.U. 1453 / 22nd STREET

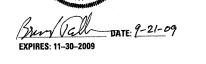
DISTRICT 1 TRAFFIC SIGNAL MODERNIZATION WITH INTERCONNECT

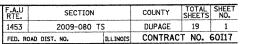
22nd STREET @ McDONALD DRIVE 22nd STREET @ JORIE BOULEVARD / ENTERPRISE DRIVE

DuPAGE COUNTY
SECTION 2009-080 TS
C-91-861-09



LOCATION MAP

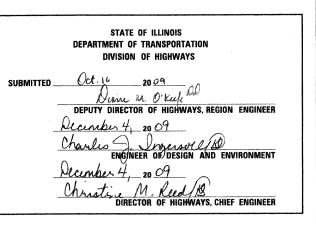




D-91-861-09







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HOT-MIX ASPHALT MIXTURE REQUIREMENTS MIXTURE TYPE MIXTURE TYPE AIR VOIDS © Ndes HMA SIDEWALK HMA SURFACE COURSE, MIX "C", N50 (IL 9.5 mm) 4% © 50 Gyr. ROADWAY PATCHES HMA SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) 4% © 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

CHECKED - BPT

09-21-09

REVISED

REVISED

PLOT SCALE = 1'=20'

PLOT DATE = 09-21-09

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) 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. 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.
- 10. CONTROLLER CABINETS SHALL BE PLACED SO THAT THE TRAFFIC MOVEMENTS AT THE INTERSECTION ARE VISIBLE FROM THE CONTROLLER.

SHEET NO. OF SHEETS STA.

TO STA.

11. ANY CONTROLLER CABINET WHETHER NEW OR EXISTING TO RECEIVE UPS, SHALL 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.

CONTRACT NO. 60I17

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



SCALE: N.T.S.

DEPARTMENT OF TRANSPORTATION

PAY CODE			URBAN		CTION TYPE CODE	Y-031-1F
NUMBER	SUMMARY OF TRAFFIC SIGNAL QUANTITIES ITEM	UNIT	TOTAL QUANTITY	22nd ST@ <i>90% STATE</i> /0% OAKBROOK JORIE BLVD.	22nd ST@ 90% STATE 10%, OAKBROOK MCDONALD DR	INTERCONNE
67000400	ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	4	2	2	
67100100	MOBILIZATION TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1.00	0,50	0.50	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1.00	0.50	0.50	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1.00	0.50	0.50	
70102640 20200100	EARTH EXCAVATION	L SUM CU YD	1.00 120	0.50 120	0.50	
35101800 35300500	AGGREGATE BASE COURSE, TYPE B 6" PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD SQ YD	101 159	101 159		
40603310	HOT- MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	12	12		
<i>40603340</i> 42400800	MOT-MIX ASPHALT SURFACE COURSE, MIX"D", NTO	TON	23	23	E 4	
44000500	COMBINATION CURB AND GUTTER REMOVAL	SQ FT FOOT	78 373	24 373	54	
44000600	SIDEWALK REMOVAL	SQ FT	878	824	54	
44002805 59300100	ISLAND REMOVAL CONTROLLED LOW-STRENGTH MATERIAL	SQ FT CU YD	1251	1251 10		
30605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	64	64		
70301000 72000100	WORK ZONE PAVEMENT MARKING REMOVAL SIGN PANEL-TYPE 1	SQ FT	2115	2115	20	,
72400710	GIGHT ANELS ITE I RELOCATE SIGN PANELS TYPE 1	SQ FT SQ FT	64 21	44	20 21	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	63		63	
78000200 78000400	THERMOPLASTIC PAVEMENT MARKING LINE 4" THERMOPLASTIC PAVEMENT MARKING LINE 6"	FOOT FOOT	156 144	156 144		
8000500	THERMOPLASTIC PAVEMENT MARKING LINE 8"	FOOT	344	344		
8000600 8000650	THERMOPLASTIC PAVEMENT MARKING+LINE 12"	FOOT	1134	1134		
1000600	THERMOPLASTIC PAVEMENT MARKING LINE 24" CONDUIT IN TRENCH, 2 " DIA., GALVANIZED STEEL	FOOT FOOT	233 834	233 268	566	
1000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	162	155	7	
1000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT FOOT	51 40	16	51	
31001000	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	18	16 10	24 8	
31018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	149	84	65	
1018600 1018800	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL CONDUIT PUSHED, 3 1/2" DIA., GALVANIZED STEEL	FOOT FOOT	23 209	23 138	71	
1018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	501	501		
1900200 6400100	TRENCH AND BACKFILL FOR ELECTRICAL WORK TRANSCEIVER - FIBER OPTIC	FOOT	1105	449	656	
5700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH EACH	2 2	1	1 1	
37301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1748	849	899	
37301225 37301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT FOOT	7233 6478	3980 2970	3253 3508	
37301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3676	2663	1013	
37301805 37301305	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	241	197	44	
31400100	HANDHOLE	FOOT EACH	7679	5718 1	<u>1961</u> 5	
31400200	HEAVY DUTY HANDHOLE	EACH	3	3		
31400300 37502500	DOUBLE HANDHOLE TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH EACH	$+$ $\frac{4}{1}$ $+$	3	1 1	
7700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1	1		
37700210 37700240	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT. STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1	11		
7700240	STEEL MAST ARM ASSEMBLY AND POLE 50 FT.	EACH EACH	1 1	1		
7700300	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1 1		1	
7700340 8770210	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT. STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 12 FT, AND 42 FT.	EACH			1	
8772030	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS 18 FT, AND 34 FT	EACH EACH	+ + +		1	
8772480	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 70 FT.	EACH	1	1		
(8772630 7800100	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 40 FT. AND 58 FT. CONCRETE FOUNDATION. TYPE A	EACH FOOT	1 8	11	8	
7800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	4	4	
7800400 7800415	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	15	15	45	
7800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT FOOT	90 71	45 50	<u>45</u> 21	
7900200	DRILL EXISTING HANDHOLE	EACH	22	17	5	
8030020 8030080	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH EACH	24	10 5	14	
8030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2	
8030110 8102717	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED PEDESTRIAN SIGNAL HEAD, LE D. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	6	2	
8102747	PEDESTRIAN SIGNAL HEAD, LE D. 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LE D. 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH EACH	3	<u>2</u> 1	2	
8200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	21	21		
8500100 8600100	INDUCTIVE LOOP DETECTOR DETECTOR LOOP, TYPE 1	EACH FOOT	27 2426	19 1670	8 756	
8700200	LIGHT DETECTOR	EACH	9	5	4	
8700300 8800100	LIGHT DETECTOR AMPLIFIER PEDESTRIAN PUSH-BUTTON	EACH	2	1	1	
9502300	REMOVE ELECTRIC CABLE FROM CONDUIT	EACH FOOT	16000	3 6500	<u>4</u> 9500	
9502380	REMOVE EXISTING HANDHOLE	EACH	11	3	8	
9502385 0001050	REMOVE EXISTING CONCRETE FOUNDATION AGGREGATE SUBGRADE 12"	EACH SQ YD	6 159	1 159	5	
(0322256	TEMPORARY INFORMATION SIGNING	SQ YD SQ FT	104.8	52.4	52.4	
(0322925 (0325705	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	2595			2595
(8050010	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2 SERVICE INSTALLATION-GROUND MOUNTED	EACH EACH	2 2	1 1	1	
(8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	2918			2918
(8730027 (8730250	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	1223 4579	748 2708	475 1871	
					1071	
X8620020 X8900030	UNINTERRUPTIBLE POWER SUPPLY REMOVE EXISTING TEMPORARY TRAFFIC SIGNAL EQUIPMENT	EACH	2	1		

* 100% COST TO THE VILLAGE OF OAKBROOK - Y031-1D

FILE NAME =

\MICROST\352Ø82\ Ø3-SUMMARY

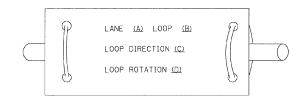
CEMCON, Ltd.
Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Suite 100 Murora, Illinois 60504-9675
Ph: 630.862.2109 Fax: 630.662.2199
E-Wall: cadd@comcon.com Website: www.comcon.com Section County SHEETS No.

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	DRAWN - RDS	REVISED -	STATE OF ILLINOIS		30	UIVIIVIAN	i or w	UANTITIES		1453	2009-080 TS	DuPAGE	19 3
PLOT SCALE = 1'=20'	CHECKED - BPT	REVISED -	DEPARTMENT OF TRANSPORTATION		,								T NO. 60I17
PLOT DATE = 09-21-09	DATE - 09-21-09	REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A	D PROJECT	

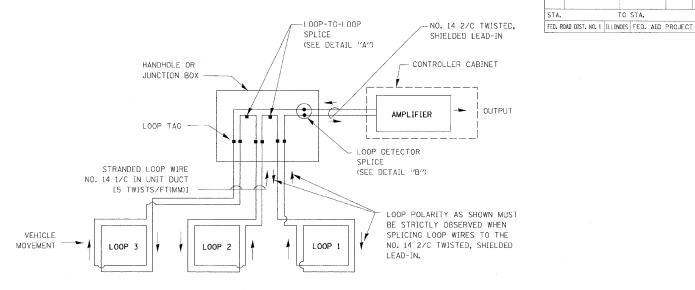
LOOP DETECTOR NOTES

- 1. 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

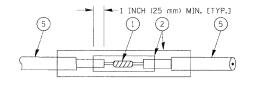


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D, LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

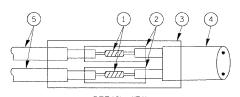


DETECTOR LOOP WIRING SCHEMATIC

- 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.



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- 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.



ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE

STANDARD TRAFFIC SIGNAL

DESIGN DETAILS

SCALE: VERT. NONE HORIZ. DATE 10/18/2002 DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 1 OF 4

DEVISION DATE OF ANY

DuPAGE 19

COUNTY TOTAL SHEE SHEETS NO.

CONTRACT NO. 60I17

TOTAL SHEE SHEETS NO.

SECTION

COUNTY

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FILE NAME =	USER NAME = RDS	DESIGNED	-	KK	REVISED	~
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	PLOT SCALE = 1"=20"	CHECKED	-	BPT	REVISED	-
	PLOT DATE = Ø9-21-Ø9	DATE	-	09-21-09	REVISED	_

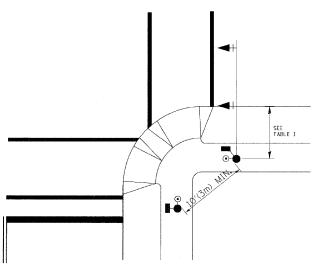
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRIC	T 1 STAND	ARD	TRAFFIC	SIGNAL	DESIGN DETAILS	F.A.U. RTE.	SECTION	COUNTY
						1453	2009-080 TS	DuPAGE
								CONTR
CALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. ILLINOIS FED. A	ID PROJECT

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) 2<u>′(600 mm)</u> TYP. 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 MUTCO (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

STA. TO STA.	RTE.	IE. SEL	CTION	C	CUNT	Υ	SHEETS	NO

NOTES:

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

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. APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4mm) NOR MORE THAN 10 FT (3.0mm) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK
- 3. THE BOTTCM 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 HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

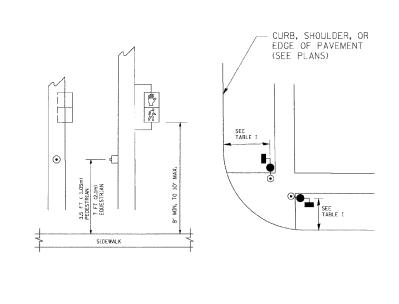


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(O,6m), MINIMUM 10FT(3,0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

CEMMON, Ltd.
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E-Mail: cadd@acmeon.com Website: www.cemcon.com

SCALE: N.T.S.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE DATE 10/18/2002

REVISIONS NAME

TO STA.

NAME DATE
BUREAU OF TRAFFIC 1/01/0

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

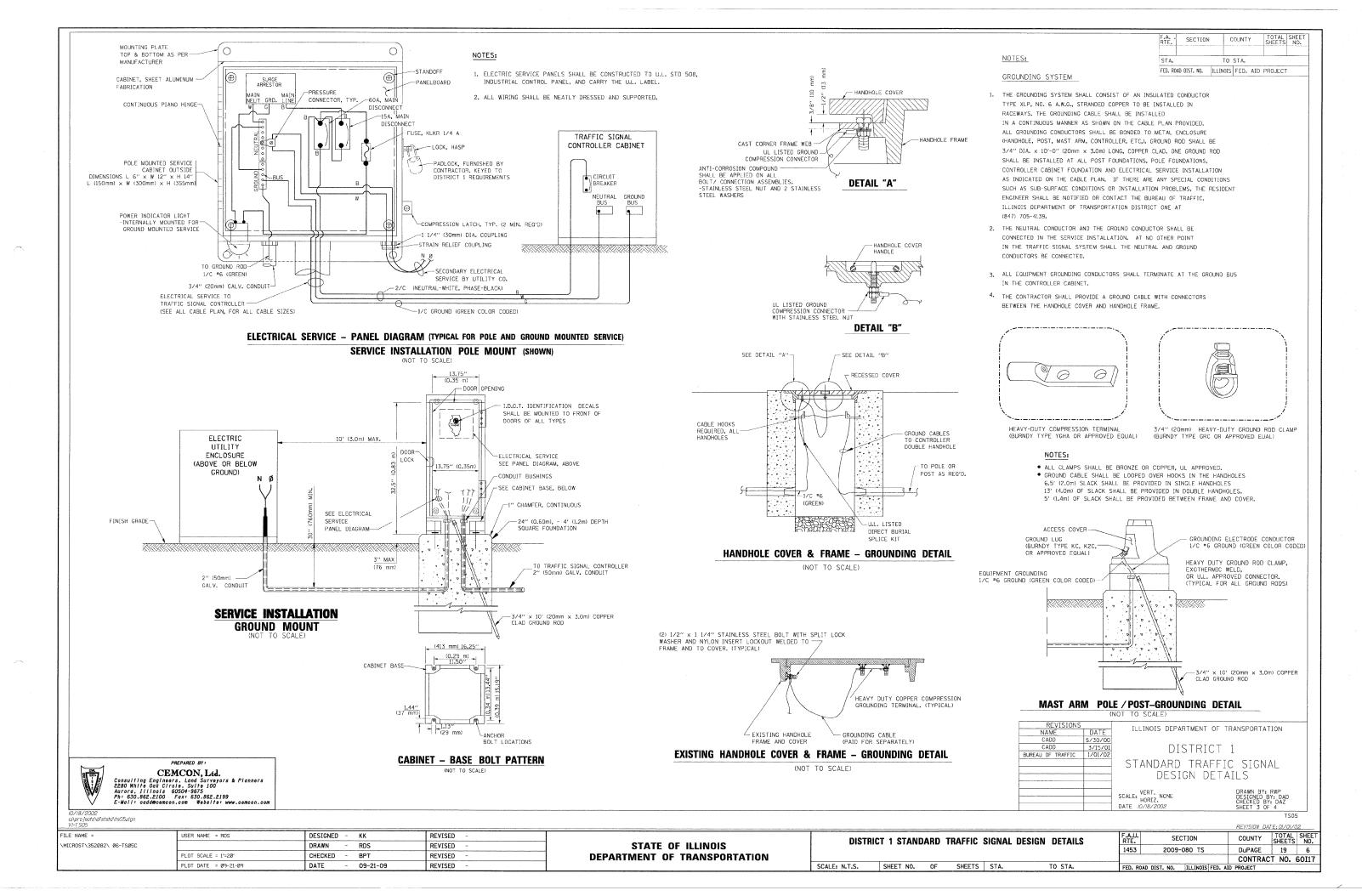
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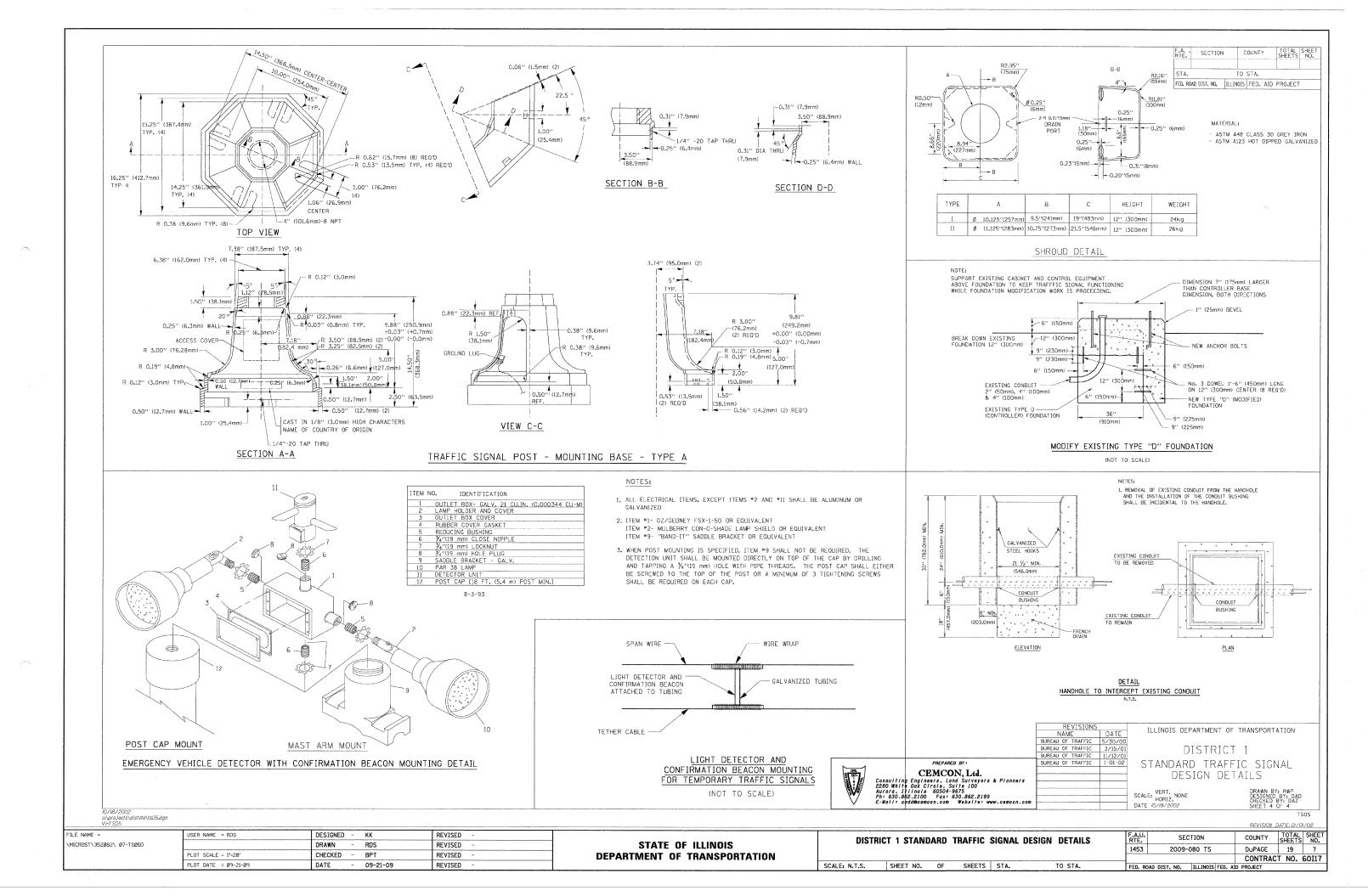
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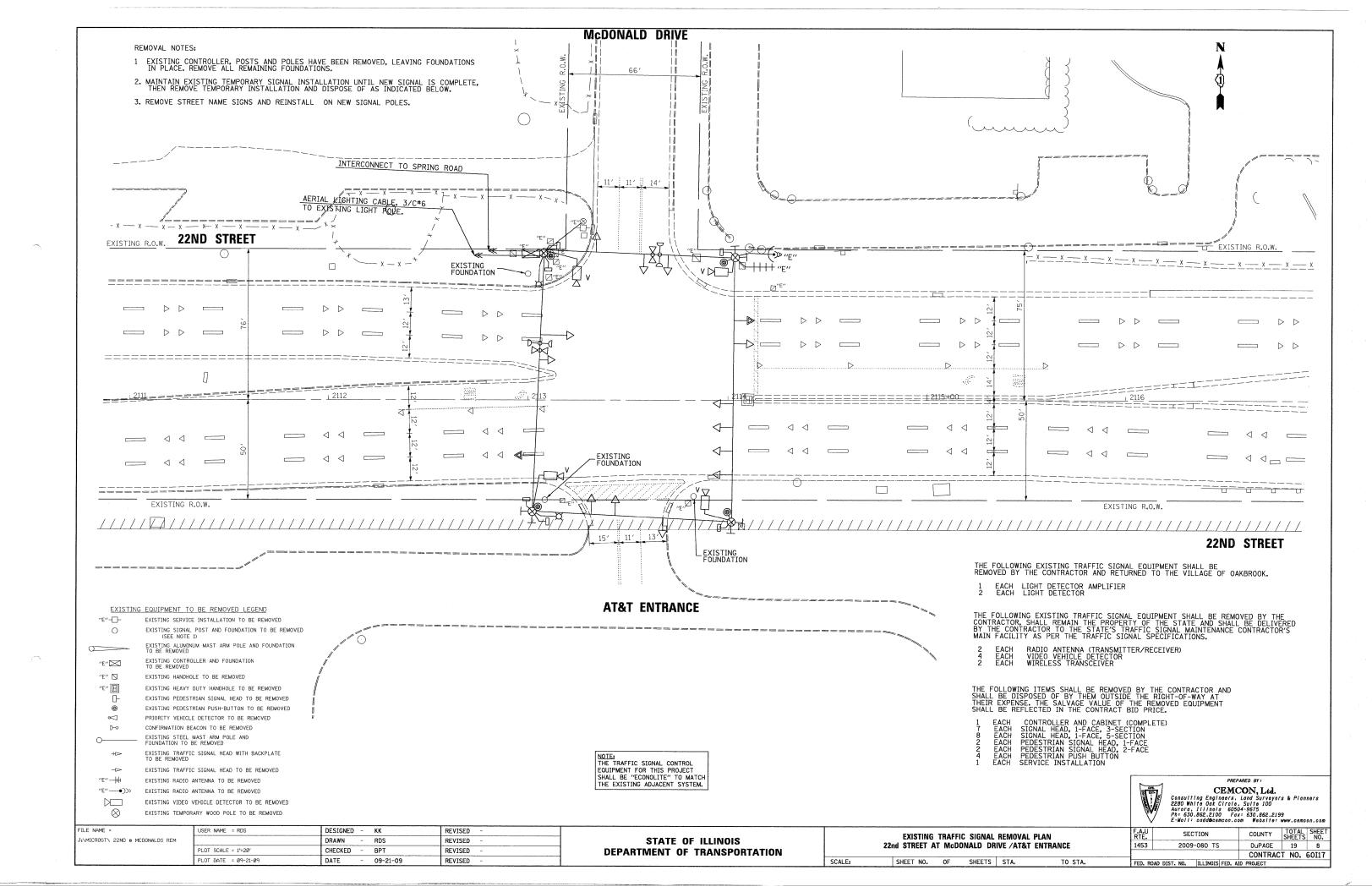
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

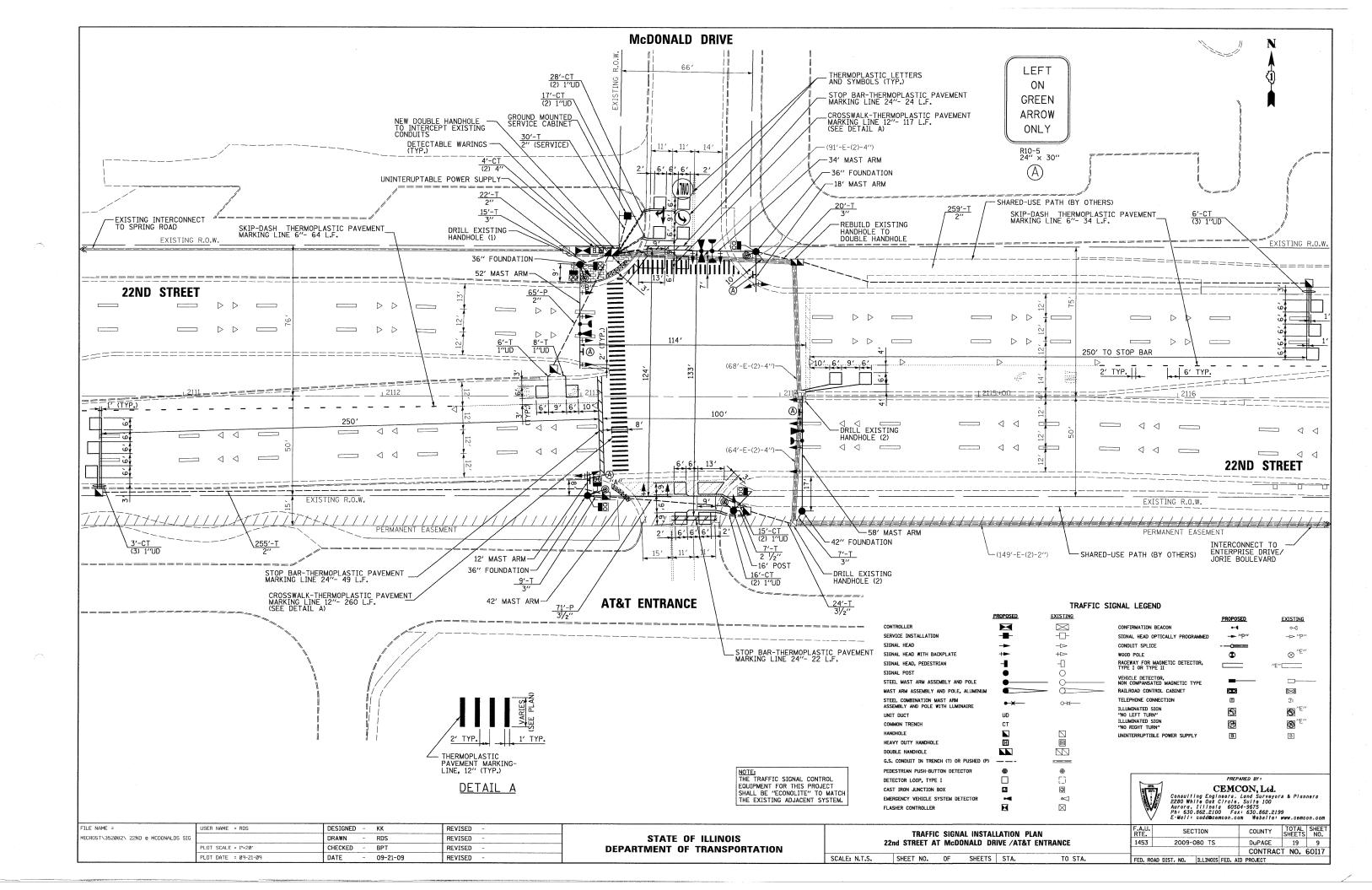
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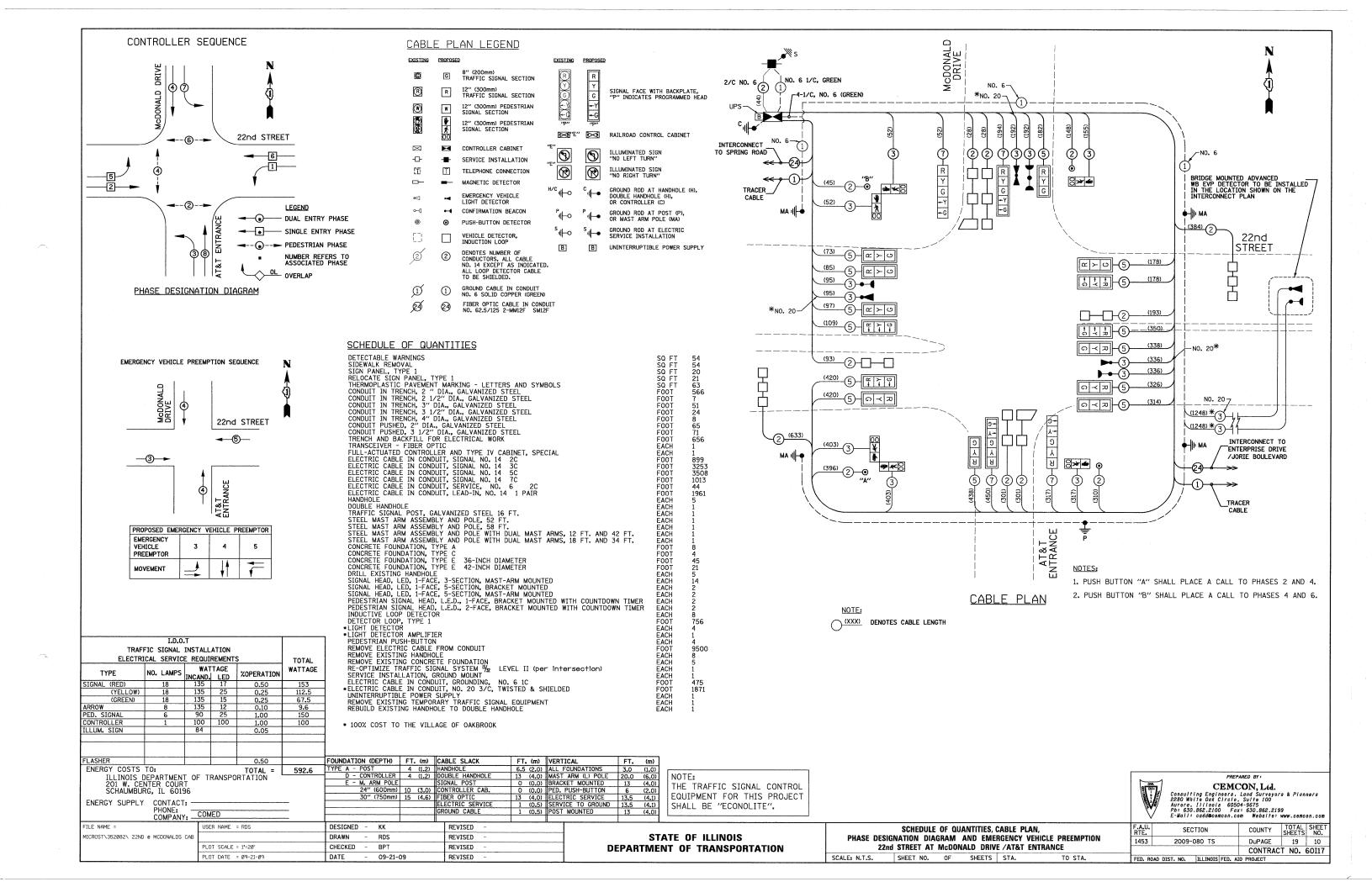
REVISION DATE: 01/01/02 SECTION COUNTY 2009-080 TS DuPAGE 19 CONTRACT NO. 60117

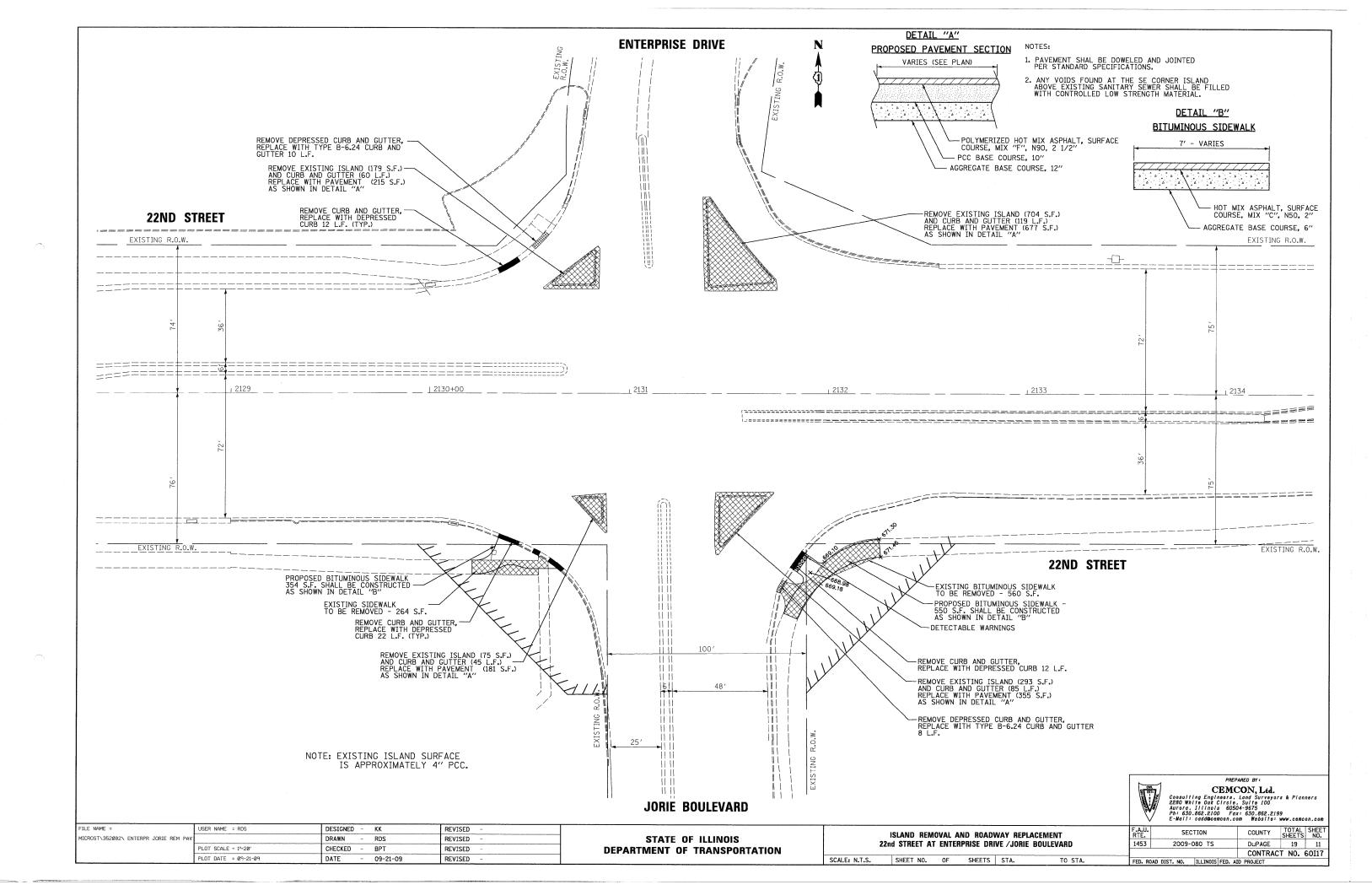


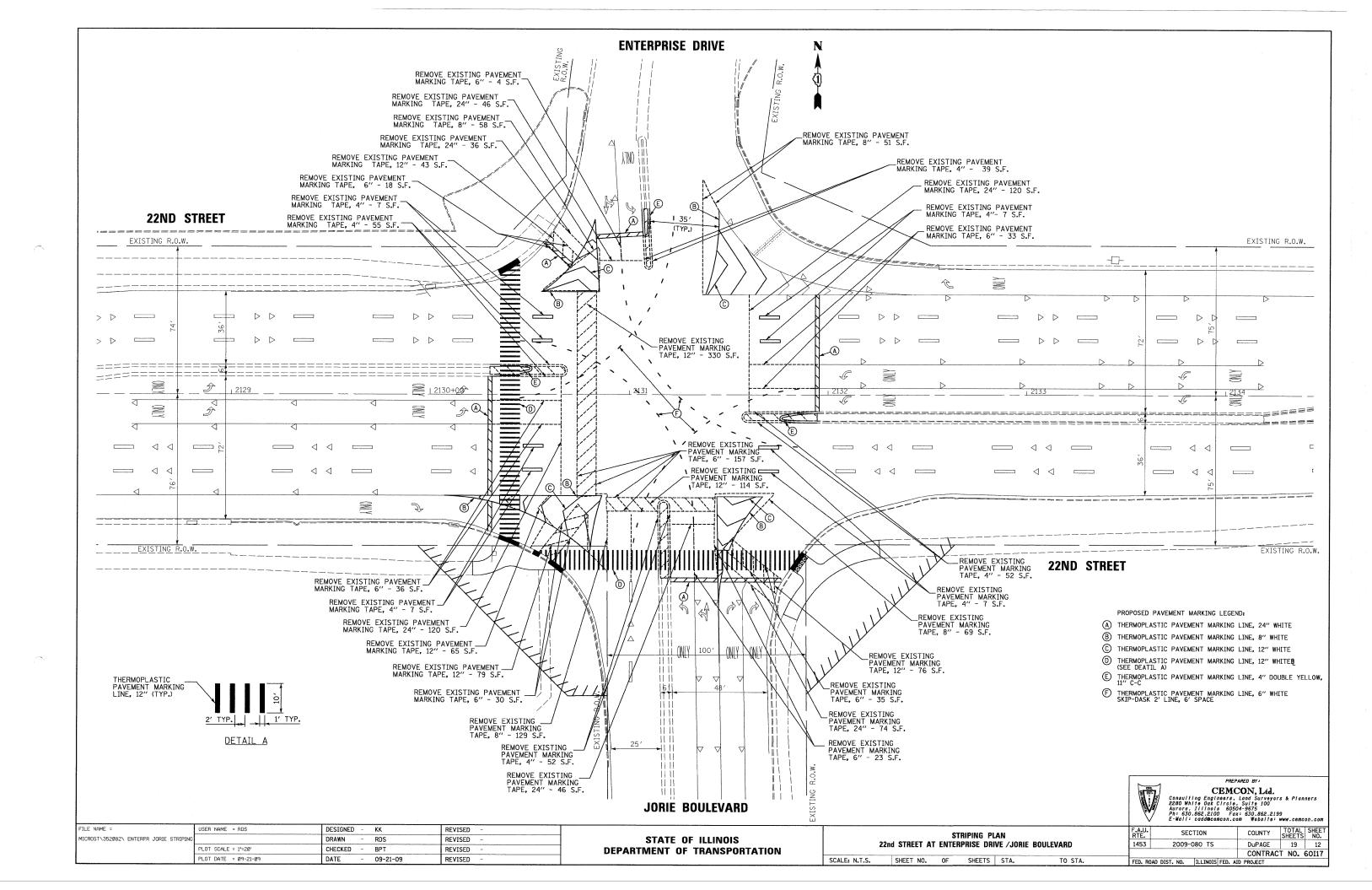


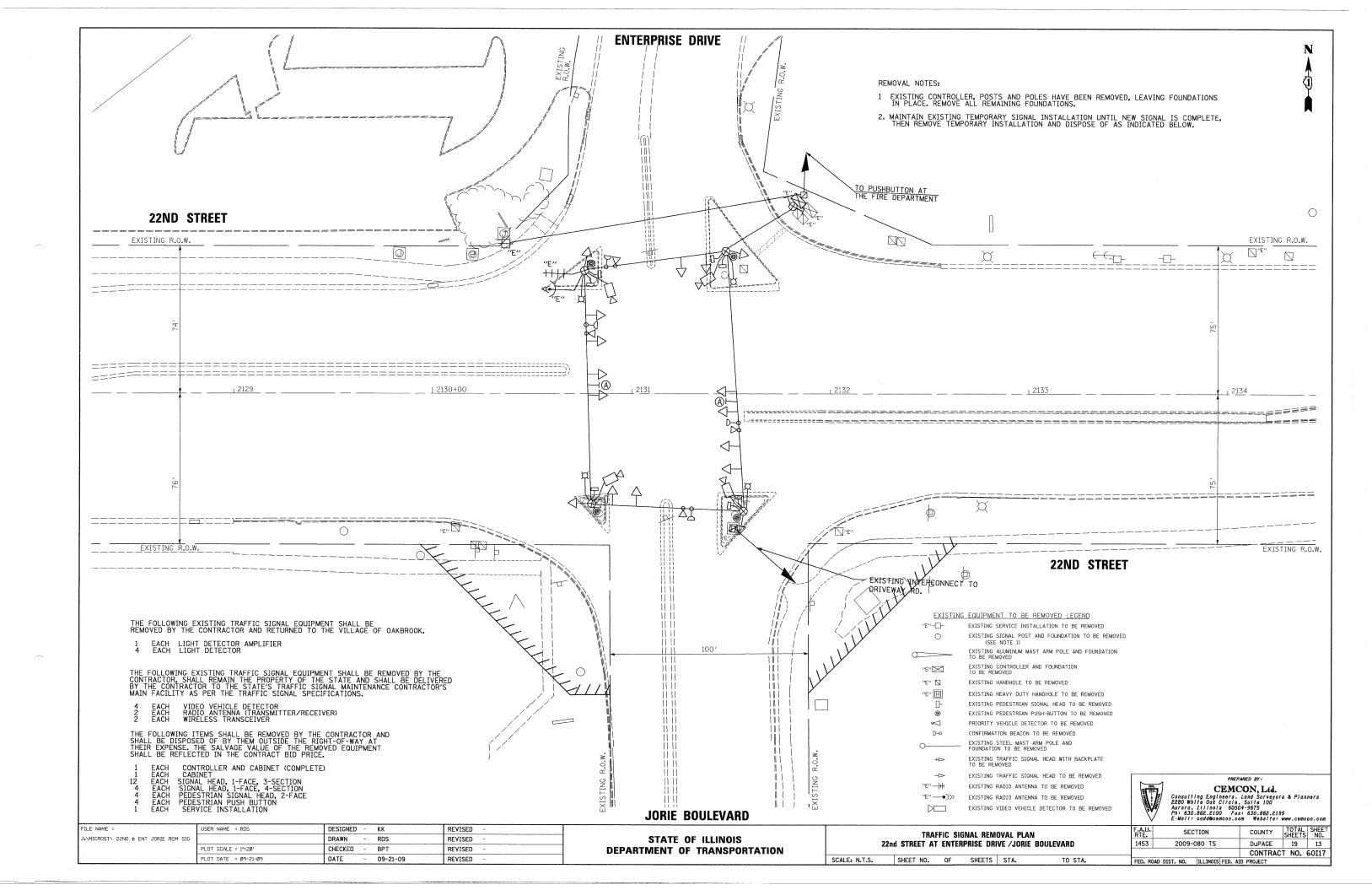


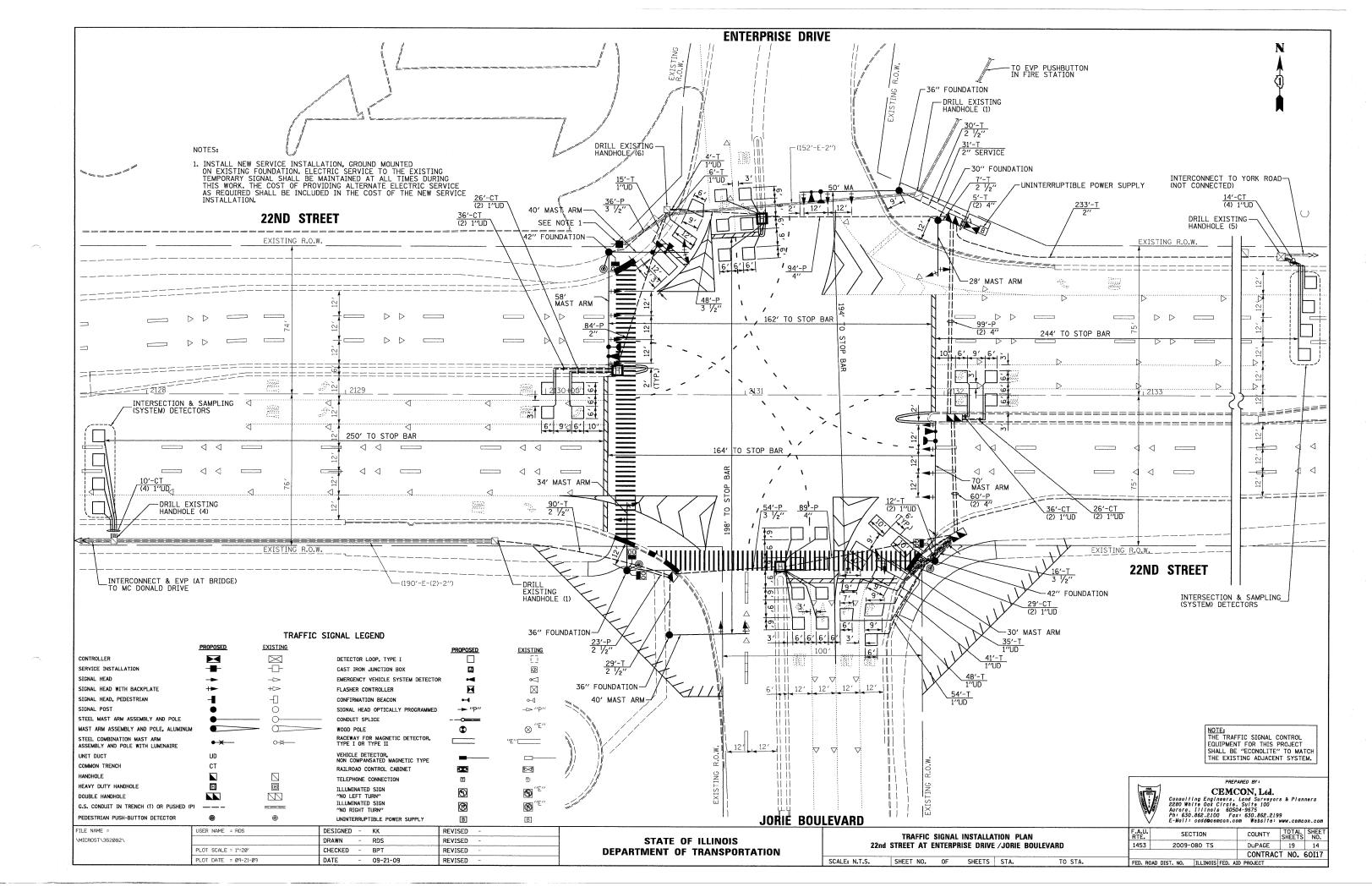


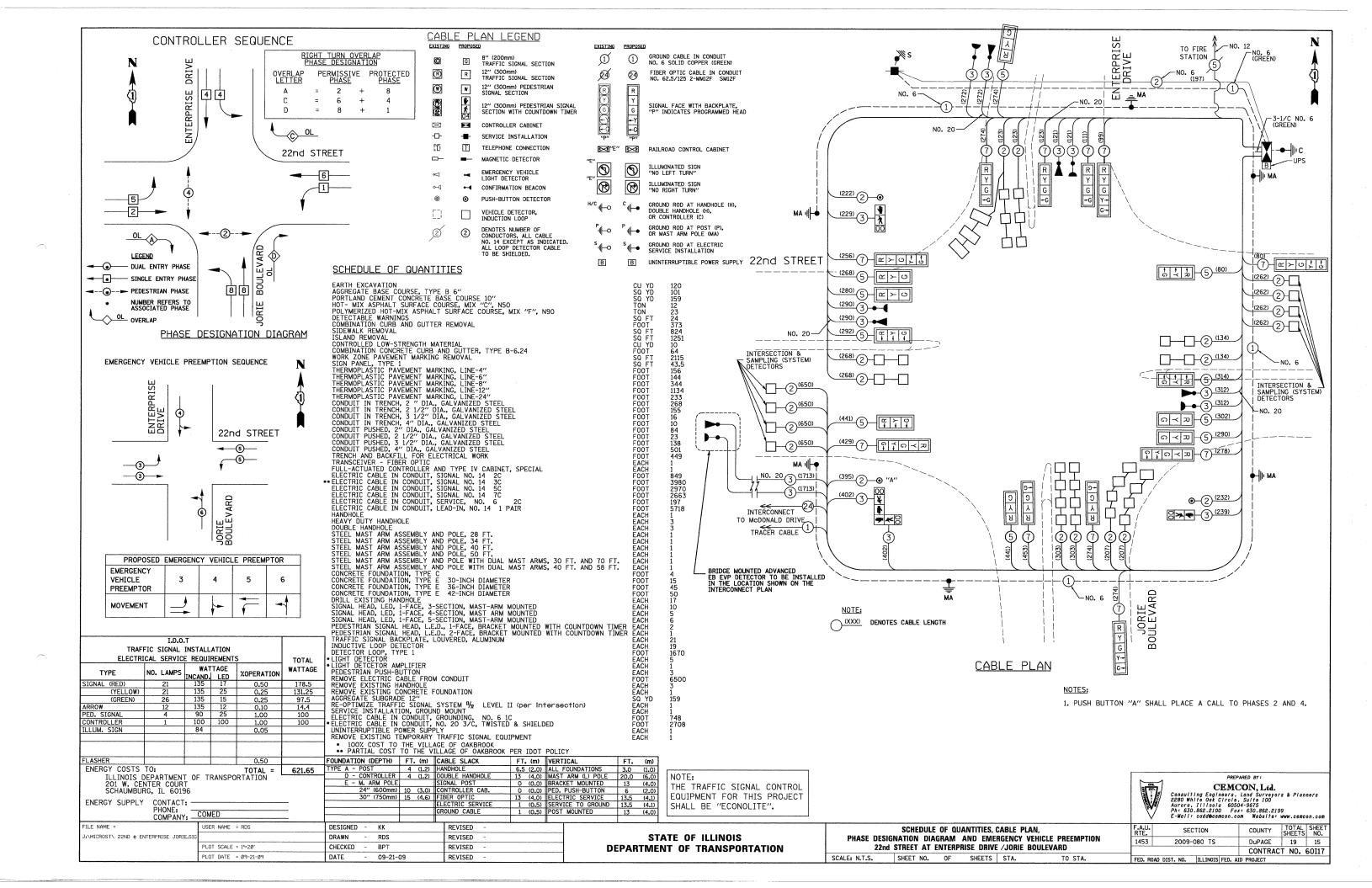


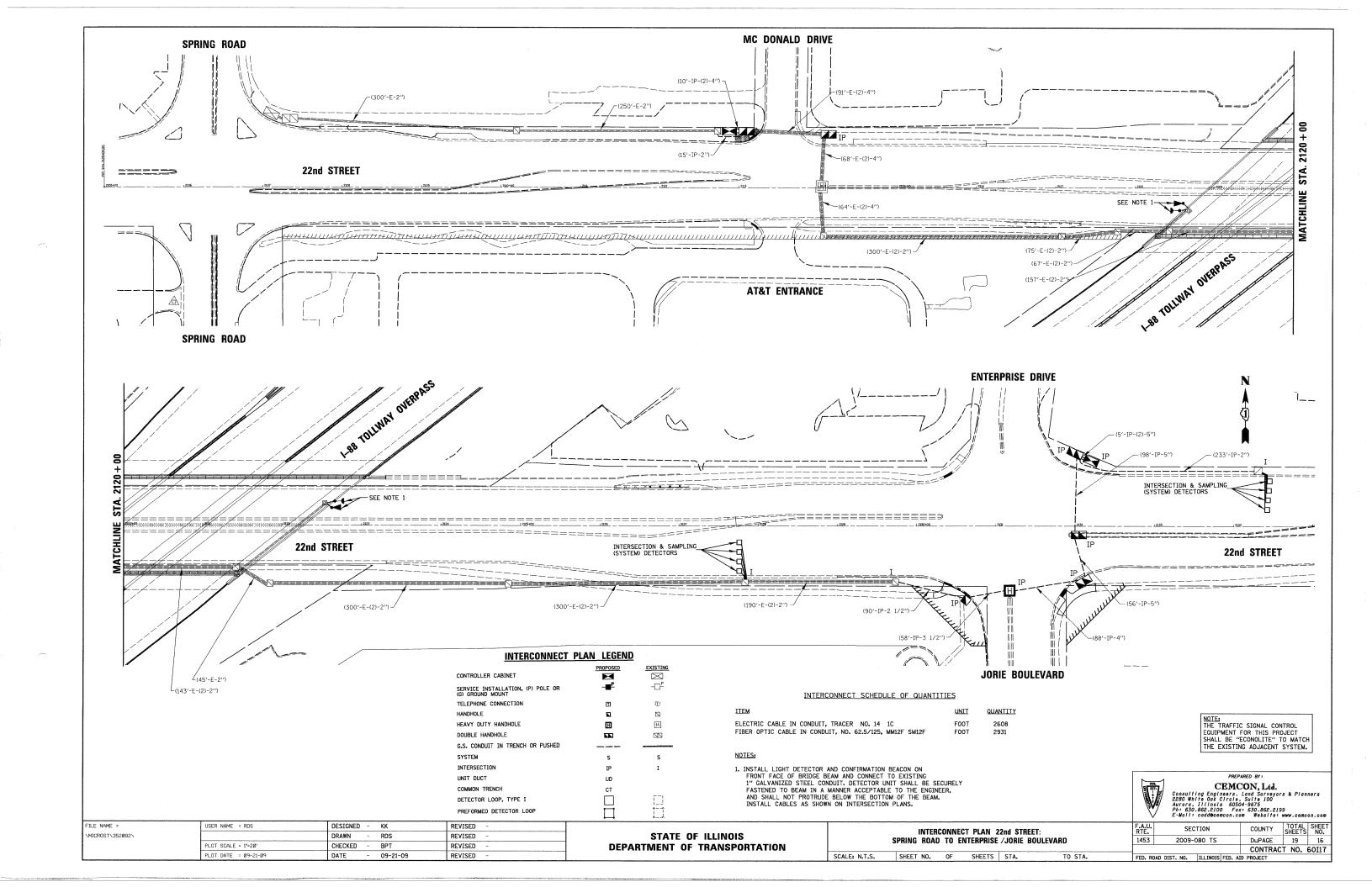


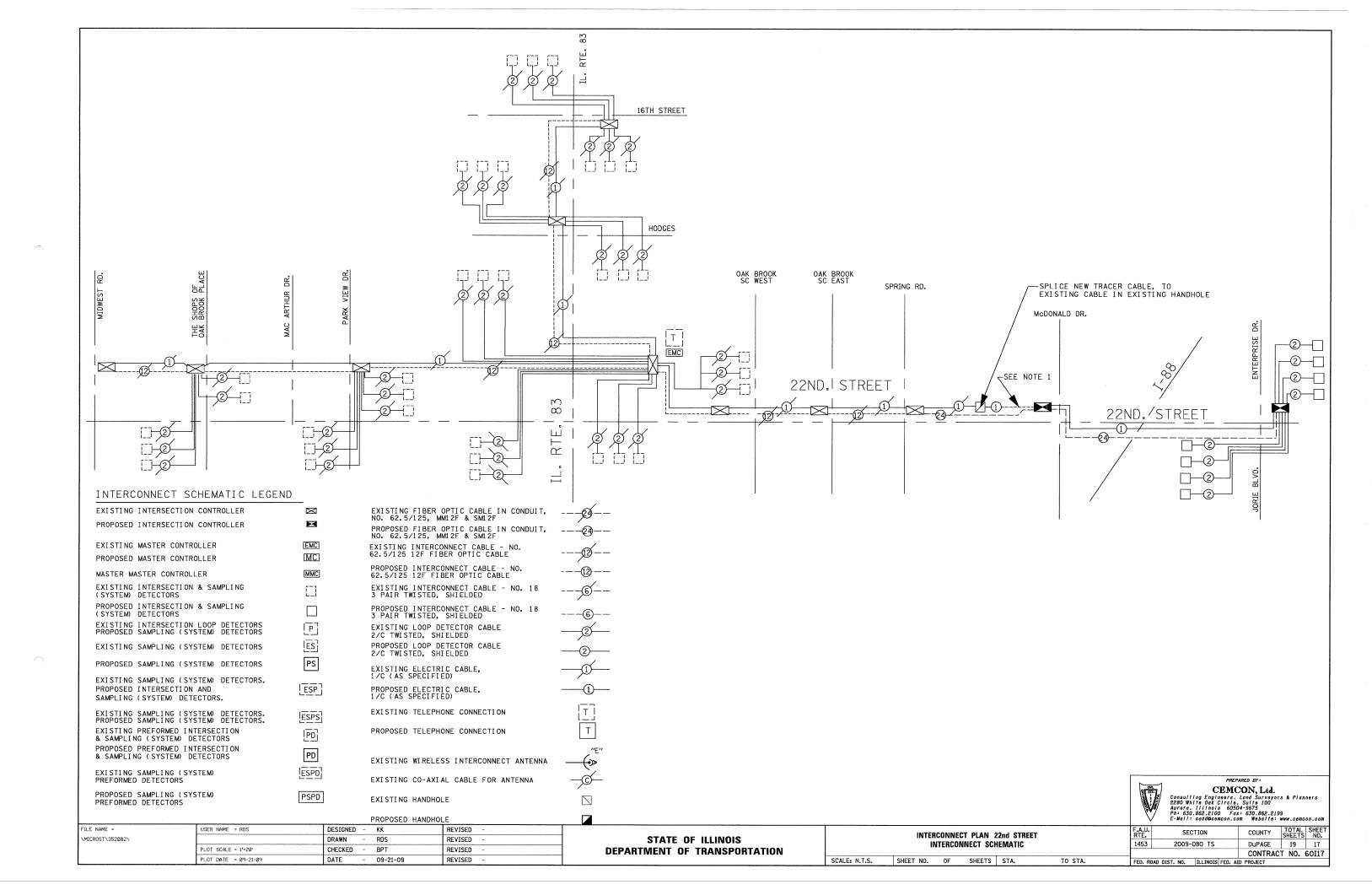


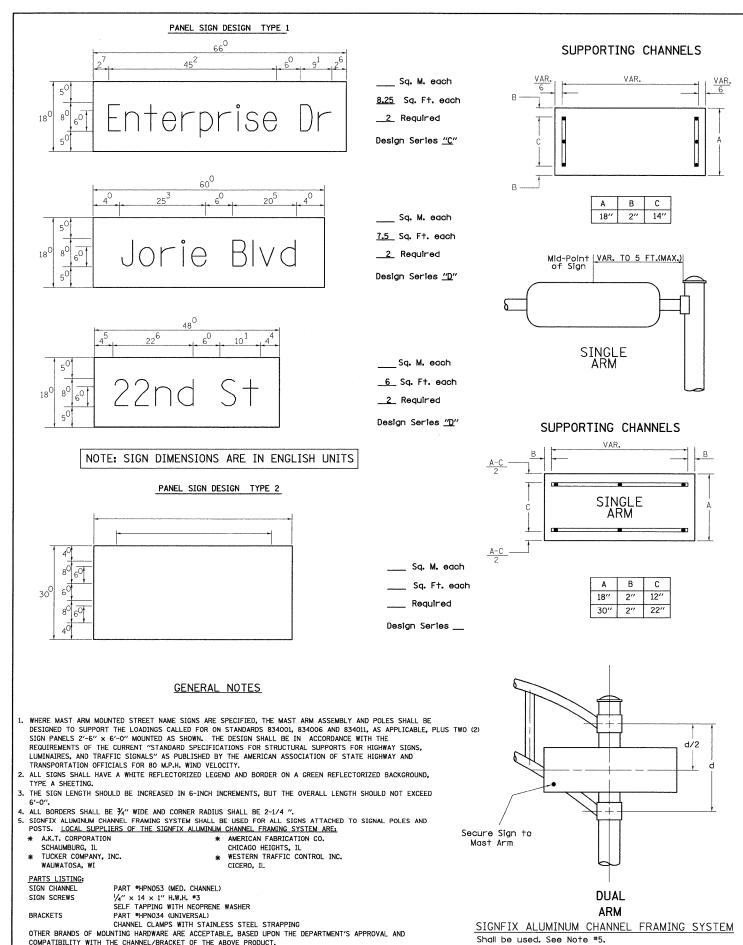












Upper Case To Lower Case

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 o q	b h m n i		f	w]	ì	s	+	٧	У	>	<	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	11	14	06	10	1 ¹	12	12	14
В	14	1 ⁵	20	2 ¹	14	15	11	1 ²	14	15	12	14	12	14	16	17
CEG	14	1 ⁵	20	21	12	14	06	10	12	14	12	14	14	1 ⁵	14	1 ⁵
DOQR	14	15	20	21	14	1 ⁵	06	10	12	14	12	14	14	1 ⁵	14	15
F	05	06	14	15	06	10	05	06	06	10	06	10	06	1 ⁰	1 ¹	1 ²
HIMN	20	2 ¹	22	24	20	2 ¹	14	1 ⁵	16	17	16	17	20	21	20	21
JU	20	2 ¹	20	2 ¹	1 ⁶	17	14	1 ⁵	16	17	16	17	16	17	20	2 ¹
K L	1 ¹	1 ²	16	17	11	12	05	06	11	12	11	12	11	1 ²	12	14
Р	1 ²	14	14	1 ⁵	1 ²	14	05	06	11	1 ²	1 ¹	12	12	14	12	14
S	12	14	16	17	1 ²	14	06	10	1 ²	14						
Т	1 ¹	12	16	17	06	10	06	10	11	12	11	1 ²	11	1 ²	1 ²	14
٧	06	10	14	15	1 ¹	12	06	10	12	14	12	14	12	14	12	14
Υ	05	06	14	1 ⁵	06	10	05	06	05	07	05	06	06	10	1 ¹	1 ²
Z	1 ⁶	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

Lower	Case	To	Lower	Case				
Spacin	g Cha	rt 6	Inch	Series	"C	&	D"	

							SE	CO	۷D	LET	TEI	₹					
		a c		рh		f	w		j	s	†	\ \	У	,	<	;	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	1 ⁶	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
LET	r	06	10	12	14	06	10	03	03	05	06	05	06	06	10	06	10
Ī	† 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	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"

											SE	CO	ND	NL	МВ	ER							
				()		1	2	2	3	3	4	1	Ę	5	6	ŝ	-	7	8	3	9	9
	SE	ERI	ES	С	D	С	D	С	D	С	ם	С	D	С	D	С	D	O	D	С	D	С	D
F	0	9		16	17	16	17	14	1 ⁵	1 ²	14	14	1 ⁵	14	1 ⁵	16	17	1 ²	14	16	17	1 ⁶	17
R	1			20	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	17	14	1 ⁵	20	2 ¹	20	2 ¹	14	1 ⁵	2 ⁰	2 ¹	20	2 ¹
Т	2	3	4	14	15	14	1 ⁵	14	1 ⁵	1 ²	14	12	14	14	1 ⁵	14	1 ⁵	11	1 ²	16	17	14	1 ⁵
N	5			14	1 ⁵	14	1 ⁵	14	1 ⁵	11	12	1 ¹	12	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	14	1 ⁵	14	1 ⁵
M B	6			16	17	14	1 ⁵	14	1 ⁵	12	1 ⁵	1 ²	14	14	1 ⁵	14	1 ⁵	11	1 ²	14	1 ⁵	14	1 ⁵
E R	7			12	14	12	14	14	1 ⁵	12	1 ⁵	05	06	1 ²	14	14	1 ⁵	11	1 ²	14	1 ⁵	12	14
L	8	-		16	17	16	17	14	15	12	1 ⁵	12	14	14	1 ⁵	1 ⁶	17	1 ²	14	1 ⁶	17	14	1 ⁵

E T T E R S		UPPER ETTERS		H UPPER LETTERS	E T E R S		LOWER
T E	SEF	RIES	SE	RIES	T E	SE	RIES
R S	С	D	С	D	R S	С	D
A	36	5°	5 ⁰	6 ⁵	a	35	42
В	32	40	43	53	Ь	35	42
С	32	40	43	53	С	35	41
D	32	40	43	53	đ	35	42
Ε	30	35	40	47	е	35	42
F	30	35	40	47	f	23	26
G	3 ²	40	43	5 ³	g	35	42
Н	3 ²	40	43	53	h	35	42
I	07	07	11	12	î	11	11
J	30	3 €	40	50	j	20	22
K	32	41	43	54	k	35	42
٦	30	35	40	47	ı	11	11
М	37	45	5 ¹	6 ¹	m	60	70
N	3 ²	40	43	53	n	35	42
0	34	42	4 5	55	٥	36	43
Р	32	40	43	5 ³	Р	35	42
Q	34	42	45	5 ⁵	q	35	42
R	32	40	43	5 ³	r	26	32
S	32	40	43	53	8	36	42
T	30	35	40	47	+	27	32
U	32	40	43	53	u	35	42
٧	3 ⁵	4 4	47	6°	٧	42	47
W	44	5 ²	6 ⁰	70	w	55	64
х	34	40	45	53	×	44	5 ¹
Y	36	50	5 ⁰	66	У	46	53
Z	3 ²	40	43	53	z	36	43

N _{UM}	6 INCH	SERIES	8 INCH SERIES				
NU _{MBER}	С	D	С	D			
1	12	- 14	15	20			
2	32	40	43	53			
3	3 ²	40	43	53			
4	3 ⁵	43	47	57			
5	32	40	43	53			
6	32	40	43	53			
7	32	40	43	53			
8	32	40	43	53			
9	3 ²	40	43	53			
0	34	4 ²	4 ⁵	5 ⁵			

PREPARED BY:

CEMCON, Ltd.

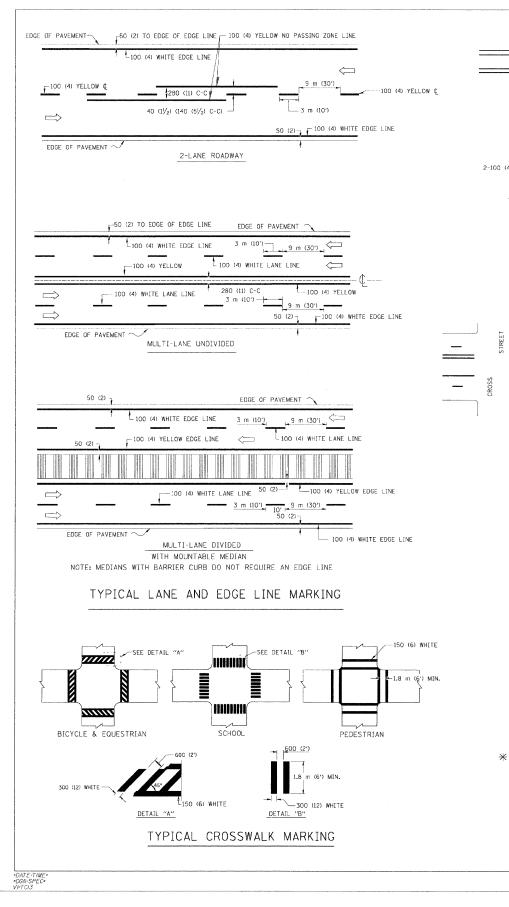
Consulting Englaneers, Land Surveyors & Planners
2280 White Oak Circle, Suite 100
Aurora, Illinois 60504-9675
Ph: 630.862.2100 Fax: 630.862.2199
E-Mail: caddbacemcon.com Website: www.cemcon.co

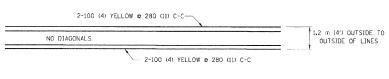
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	PLOT SCALE = 1"=20"	CHECKED		BPT	REVISED -
	PLOT DATE = 09-21-09	DATE		09-21-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

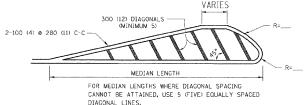
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F.A.U. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEE NO.	
1453	2009-0	080 TS		DuPAGE	19	18	
				CONTRA	CT NO.	60I1	
FED. RO	AD DIST. NO.	ILLINOIS FED	. AID	PROJECT			



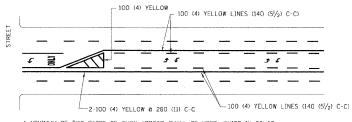


1.2 m (4') WIDE MEDIANS ONLY

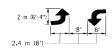


DIAGONAL LINE SPACING: 15 m (50°) C-C (LESS THAN 50 km/h (30 MPH))
25 m (75°) C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
45 m (150°) C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

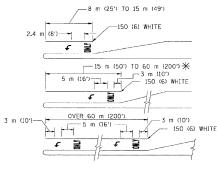


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

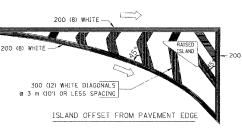


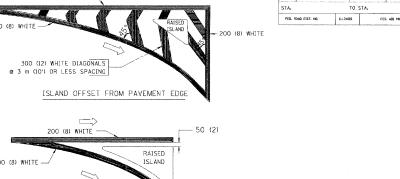
FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. \P AREA = 1.5 m 2 (15.6 SO. FT.)

** TURN LANES IN EXCESS OF 120 m (400") IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

		T	1	4
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW	140 (51/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10") LINE WITH 9 m (30") SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2") LINE WITH 1.8 m (6") SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10") LINE WITH 9 m (30") SPACE FOR SKIP-DASH: 140 (5½) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2,4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL 10 CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE
	e 45° NO DIAGONALS USED FOR 1,2 m (4') WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15) C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20) C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30) C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	GOO (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "X":-0.33m2 (3.6 SQ. FT.) EACH "X":-5.0 m2 (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50") C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75") C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150") C-C (OVER 70 km/h (45 MPH))

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

All dimensions are in millimeters (inches)

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD CHECKED BY TC-13

REVISION DATE: 01/06/00

FILE NAME = \MICROST\352082\

USER NAME = RDS	DESIGNED -		KK	REVISED -	
	DRAWN -	-	RDS	REVISED -	Ī
PLOT SCALE = 1"=20"	CHECKED -		BPT	REVISED -	
PLOT DATE = 09-21-09	DATE -		09-21-09	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	DISTRICT ONE TYPICAL PAVEMENT MARKINGS						F.A.U. RTE.				COUNTY	TOTAL	SHEE NO.
						1453	2009-0	080 TS		DuPAGE	19	19	
											CONTRAC	T NO.	60I17
	SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FE	D. AID	PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION

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VERS RAMMACHER