I. COVER SHEET

2. SUMMARY OF QUANTITIES

3. STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET LOF 4
4. STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET 2 OF 4

5. STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET 3 OF 4

6. STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET 4 OF 4

7. TRAFFIC SIGNAL MODIFICATION IL RTE 53 AT FIRST STREET 8. CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES

IL RTE 53 AT FIRST STREET

9. TRAFFIC SIGNAL MODIFICATION IL RTE 53 AT IL RTE 102 10. CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES IL RTE 53 AT IL RTE 102

II. TRAFFIC SIGNAL MODIFICATION IL RTE 102 AT KAHLER ROAD

I2. CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES

IL RTE 102 AT KAHLER ROAD

13. INTERCONNECT PLAN IL RTE 53 FROM FIRST STREET TO IL ROUTE IO2 SHEET 10F 3
14. INTERCONNECT PLAN IL RTE IO2 FROM IL ROUTE 53 TO KAHLER RD SHEET 2 OF 3
15. INTERCONNECT PLAN IL RTE IO2 FROM IL ROUTE 53 TO KAHLER RD SHEET 3 OF 3
16. INTERCONNECT SCHEMATIC IL RTE 53 FROM FIRST ST
TO IL ROUTE IO2 AND IL ROUTE IO2 FROM IL ROUTE 53 TO KAHLER ROAD

17. DISTRICT ONE TYPICAL PAVEMENT MARKINGS

18. ARTERIAL ROAD INFORMATION SIGN

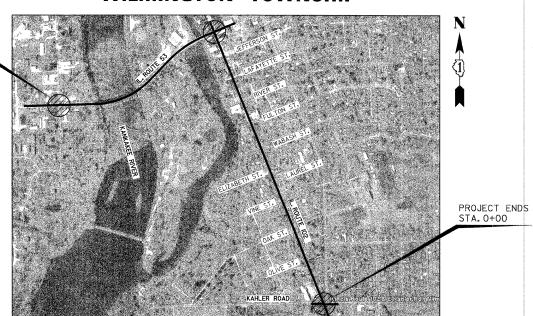
DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PLAN FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1 **CONGESTION MITIGITION AIR QUALITY** FIBER OPTIC COMMUNICATION NETWORK IL. ROUTE 53 (BALTIMORE STREET) FROM N. FIRST STREET TO IL. ROUTE 102 (WATER STREET) IL. ROUTE 102 (WATER STREET) FROM IL. ROUTE 53 TO KAHLER ROAD PROJECT: ACCMF-000S(690)
WILL COUNTY F.A.P. 631 /IL. 53 (BALTIMORE STREET) **F.A.P. 846 /IL. 102 (WATER STREET)**

WILMINGTON TOWNSHIP

SECTION 2008-077TS C-91-240-09



LOCATION MAP

STATE OF ILLINOIS



LOCATION OF SECTION INDICATED THUS: -

SECTION

2008-077TS

D-9I-240-09

Wil L

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SUBMITTED Oct 16 20 09 Derine M. O'Keepe Dr

December 4, 20 09 Christine M. Reed & DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

EXP, res on 11/30/2009

CONTRACT NO. 60F80

STANDARD DRAWINGS (701006-03) (701011-02) (701101-02)

(701606-06)

Stan Trum AM TRAFFIC ENGINEER

10/10/09 DATE

PROJECT BEGINS STA. 100+00

WILL COUNTY SECTION 2008-077TS FAP ROUTE 631/846

SUMMARY OF QUANTITIES

CODE NO. TITEM				BO! FED. 201. STATE	FAP 631	FAP 846	FAP 846	FAP 844
E7000400 ENGINEER'S FIELD OFFICE, TYPE A CAL MO	CODE NO.	ITEM		GRAND	FIRST STREET	IL RTE 53/ IL RTE 102	KAHLER ROAD	INTER- CONNECT
E7100100 MOBILIZATION L SUM 1.0 0.25 0.			CONSTRUCTION	ON CODE	Y031-1F	Y031-1F	Y031-1F	Y031-1F
TOLOGESES TRAFFIC CONTROL AND PROTECTION, STANDARD 701606 L. SUM 1.0 0.25	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4.0	1.0	1.0	1.0	1.0
FOLDERS TRAFFIC CONTROL AND PROTECTION, STANDARD 701701			L SUM	1.0	0,25	0.25	0.25	0.25
BIODOGOO CONDUIT N TRENCH, 2" DIA., CALVANIZED STEEL	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1.0	0.25	0.25	0.25	0.25
B1018500 CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL FOOT 1771,0 O.0 O.0 O.0	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.0	0.25	0.25	0.25	0.25
BI400100 HANDHOLE	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	3432.0	0.0	0.0	0.0	3432.0
81902200 TRENCH AND BACKFILL FOR ELECTRICAL WORK FOOT 3432.0 0.0 0.0 0.0	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1771.0	0.0	0.0	0.0	1771.0
B5000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	81400100	HANDHOLE	EACH	7.0	0.0	0.0	0.0	7.0
SECONOZOO MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH 3.0 1.0	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3432.0	0.0	0.0	0.0	3432.0
B7301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR FOOT 790.5 0.0 790.5 0.0 88030020 SIGNAL HEAD, LE D, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.0 88030100 SIGNAL HEAD, LE D, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.0 88030110 SIGNAL HEAD, LE D, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.0 88030110 SIGNAL HEAD, LE D, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.			EACH	3.0	1.0	1.0	1.0	0.0
B7301305 ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR FOOT 790.5 0.0 790.5 0.0 88030020 SIGNAL HEAD, LE D, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.0 88030100 SIGNAL HEAD, LE D, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.0 88030100 SIGNAL HEAD, LE D, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.0 88030100 SIGNAL HEAD, LE D, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.	86400100	TRANSCEIVER - FIBER OPTIC	EACH	3.0	1.0	1.0	1.0	0.0
B8030020 SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.0 88030100 SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED EACH 4.0 0.0 4.0 0	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR		 			0.0	0.0
B8030100 SIGNAL HEAD, L E D, 1-FACE, 5-SECTION, BRACKET MOUNTED EACH 4.0 0.0 4.0 0.0 88030110 SIGNAL HEAD, L E D, 1-FACE, 5-SECTION, MAST-ARM MOUNTED EACH 4.0 0.0 4.0 0.0			EACH	4.0	0.0	4.0	0.0	0.0
B8030110 SIGNAL HEAD, L E D, 1-FACE, 5-SECTION, MAST-ARM MOUNTED			EACH	4.0	0.0	4.0	0.0	0.0
X0322925 ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C FOOT 6089.0 0.							0.0	0.0
X8710020 FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM 12F FOOT 6115.0 0.							0.0	6089.0
42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH SQ FT 53.40 0.0 53.40 0.0 42400800 DETECTABLE WARNINGS SQ FT 110.0 0.0 110.0 0.0 87900200 DRILL EXISTING HANDHOLE EACH 6.0 1.0 4.0 1.0 88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 8.0 0.0 8.0 0.0 88500100 INDUCTIVE LOOP DETECTOR EACH 1.0 0.0 1.0 0.0 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1.0 0.0 1.0 0.0 X0324007 OPTIMIZE TRAFFIC SIGNAL SYSTEM EACH 1.0 0.0 1.0 0.0 X8620020 UNINTERRUPTIBLE POWER SUPPLY EACH 1.0 0.0 1.0 0.0 81100600 CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL FOOT 717.0 0.0 0.0 0.0 81300720 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16"X12"X8" EACH 1.0 0.0 0.0 0.0 X0322256 TEMPORARY INFORMATION SIGNING SQ FT			FOOT	-			0.0	6115.0
42400800 DETECTABLE WARNINGS SQ FT 110.0 0.0 110.0 0.0 87900200 DRILL EXISTING HANDHOLE EACH 6.0 1.0 4.0 1.0 88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 8.0 0.0 8.0 0.0 88500100 INDUCTIVE LOOP DETECTOR EACH 10.0 0.0 10.0 0.0 0.0 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1.0 0.0 1.0 0			SQ FT		0.0	53,40	0.0	0.0
87900200 DRILL EXISTING HANDHOLE EACH 6.0 1.0 4.0 1.0 88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 8.0 0.0 8.0 0.0 88500100 INDUCTIVE LOOP DETECTOR EACH 10.0 0.0 10.0 0.0 0.0 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1.0 0.0 1.0 0.0	42400800	DETECTABLE WARNINGS					0.0	0.0
88200210 TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH 8.0 0.0 8.0 0.0 88500100 INDUCTIVE LOOP DETECTOR EACH 10.0 0.0 10.0 0.0 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1.0 0.0 1.0 0.0 X0324007 OPTIMIZE TRAFFIC SIGNAL SYSTEM EACH 1.0 0.0 0.0 0.0 X8620020 UNINTERRUPTIBLE POWER SUPPLY EACH 1.0 0.0 1.0 0.0 81100600 CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL FOOT 717.0 0.0 0.0 0.0 81300720 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16"X12"X8" EACH 3.0 0.0 0.0 0.0 X0322256 TEMPORARY INFORMATION SIGNING SQ FT 102.8 25.7 51.4 25.7 85700305 FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL EACH 1.0 0.0 1.0 0.0 86000105 MASTER CONTROLLER (SPECIAL) EACH 1.0 0.0 1.0 0.0 88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, B	87900200	DRILL EXISTING HANDHOLE	EACH	 			1.0	0.0
88500100 INDUCTIVE LOOP DETECTOR EACH 10.0 0.0 10.0 0.0 89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1.0 0.0 1.0 0.0 X0324007 OPTIMIZE TRAFFIC SIGNAL SYSTEM EACH 1.0 0.0 0.0 0.0 X8620020 UNINTERRUPTIBLE POWER SUPPLY EACH 1.0 0.0 1.0 0.0 81100600 CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL FOOT 717.0 0.0 0.0 0.0 81300720 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16"x12"x8" EACH 3.0 0.0 0.0 0.0 X0322256 TEMPORARY INFORMATION SIGNING SQ FT 102.8 25.7 51.4 25.7 85700305 FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL EACH 1.0 0.0 1.0 0.0 86000105 MASTER CONTROLLER (SPECIAL) EACH 1.0 0.0 1.0 0.0 88600100 DETECTOR LOOP, TYPE I FOOT 48.0 0.0 4.0 0.0 78000650 THERMOPLASTIC PAVEMENT MARKING-LINE 6" FOOT </td <td>88200210</td> <td>TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM</td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td> <td>0.0</td>	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM					0.0	0.0
89502375 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH 1.0 0.0 1.0 0.0 X0324007 OPTIMIZE TRAFFIC SIGNAL SYSTEM EACH 1.0 0.0 0.0 0.0 X8620020 UNINTERRUPTIBLE POWER SUPPLY EACH 1.0 0.0 1.0 0.0 81100600 CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL FOOT 717.0 0.0 0.0 0.0 81300720 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16"×12"×8" EACH 3.0 0.0 0.0 0.0 X0322256 TEMPORARY INFORMATION SIGNING SQ FT 102.8 25.7 51.4 25.7 85700305 FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL EACH 1.0 0.0 1.0 0.0 8600105 MASTER CONTROLLER (SPECIAL) EACH 1.0 0.0 1.0 0.0 88102747 PEDESTRIAN SIGNAL HEAD, L E D, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 4.0 0.0 4.0 0.0 88600100 DETECTOR LOOP, TYPE I FOOT 114.0 0.0 114.0 0.0 78000400 THERMOPL				 				0.0
X0324007 OPTIMIZE TRAFFIC SIGNAL SYSTEM EACH 1.0 0.0 0.0 0.0 X8620020 UNINTERRUPTIBLE POWER SUPPLY EACH 1.0 0.0 1.0 0.0 81100600 CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL FOOT 717.0 0.0 0.0 0.0 81300720 JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16"x12"x8" EACH 3.0 0.0 0.0 0.0 X0322256 TEMPORARY INFORMATION SIGNING SQ FT 102.8 25.7 51.4 25.7 85700305 FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL EACH 1.0 0.0 1.0 0.0 86000105 MASTER CONTROLLER (SPECIAL) EACH 1.0 0.0 1.0 0.0 88102747 PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 4.0 0.0 4.0 0.0 88600100 DETECTOR LOOP, TYPE I FOOT 88.0 0.0 88.0 0.0 78000400 THERMOPLASTIC PAVEMENT MARKING-LINE 24" FOOT 444.0 0.0 444.0 0.0								0.0
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88102747 PEDESTRIAN SIGNAL HEAD, L E D, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH 4.0 0.0 4.0 0.0 88600100 DETECTOR LOOP, TYPE I FOOT 88.0 0.0 88.0 0.0 78000650 THERMOPLASTIC PAVEMENT MARKING-LINE 24" FOOT 114.0 0.0 114.0 0.0 78000400 THERMOPLASTIC PAVEMENT MARKING-LINE 6" FOOT 444.0 0.0 444.0 0.0								0.0
88600100 DETECTOR LOOP, TYPE I FOOT 88.0 0.0 88.0 0.0 78000650 THERMOPLASTIC PAVEMENT MARKING-LINE 24" FOOT 114.0 0.0 114.0 0.0 78000400 THERMOPLASTIC PAVEMENT MARKING-LINE 6" FOOT 444.0 0.0 444.0 0.0								0.0
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78000400 THERMOPLASTIC PAVEMENT MARKING-LINE 6" FOOT 444.0 0.0 444.0 0.0								0.0
						i		0.0
78300400 THERMOPLASTIC PAVEMENT MARKING REMOVAL SQ FT 56.0 0.0 56.0 0.0				56.0		1	0.0	0.0

* Specialty Items

URBAN



FILE NAME =	USER NAME = (1224_user)	DESIGNED	-	LC	REVISED	
P:\P-00\1224\Task 9\DGN\Sheets\02-1224_S-Sum-Quan.dgn		DRAWN	-	BID/LC	REVISED	-
	PLOT SCALE = N/A	CHECKED	-	ER	REVISED	-
3	PLOT DATE = 10/14/2009	DATE	-	9/17/2009	REVISED	
						

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

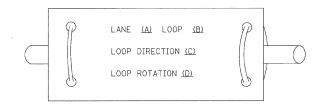
SUMMARY OF QUANTITIES IL RTE 53-FIRST ST TO IL RTE 102 IL RTE 102-IL RTE 53 TO KAHLER RD

F . 5				_				
F.A.P. RTE.	SEC.	TION			COUNTY	SHEE	TS	NO.
31/846	2008-	O77TS			WILL	18		2
					CONTRA	ACT NO	٥. ا	60F80
FED. ROA	D DIST. NO.	ILLINOIS	FED.	AID	PROJECT			

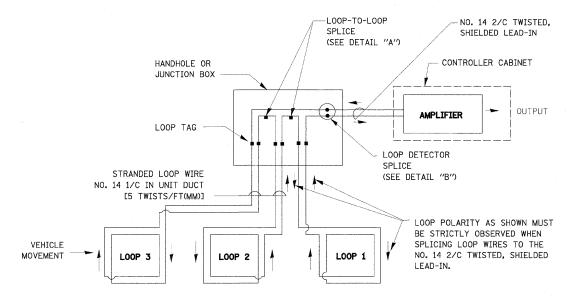
LOOP DETECTOR NOTES

- 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

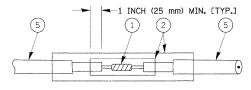


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



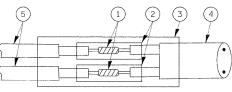
DETECTOR LOOP WIRING SCHEMATIC

- 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.



SCALE: N.T.S.





DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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.

TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 1 OF 4 SHEETS STA.

DISTRICT ONE STANDA	.pn	L	F.A.P. SECT	TION	COUNTY	TOTAL	SHE	
			DATE: 01-31-2006		CHECKED	BY: DAT	7.	
33 West Monroe Suite 1540 Chicago, IL 60603 P 312.425.9560 F 312.425.9564 www.infrastructure-eng.com			SCALE: NTS		DRAWN B	Y: RWI	⇒	
INFRASTRUCTURE ENGINEERING								
INCO A OTOLIOTUDE								
			D	ESIGN DETA	ILS			
			DISTRICT ONE STANDARD TRAFFIC SIGNAL					
	NAME	DATE						
	REVISIONS		ILLINOIS DEPA	RTMENT OF	TRANSPORT	ATION		

TO STA.

631/846

2008-077TS

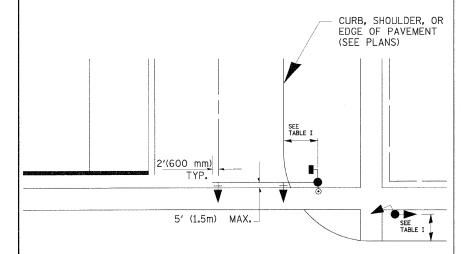
18 3

CONTRACT NO. 60F80

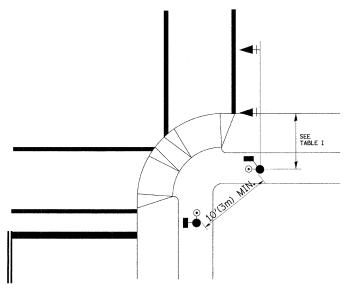
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MAST ARM AND POST

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



PEDESTRIAN SIGNAL PUSHBUTTON



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

NOTES:

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

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK, AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2,4m) NOR MORE THAN 10 FT (3,0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- 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 HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

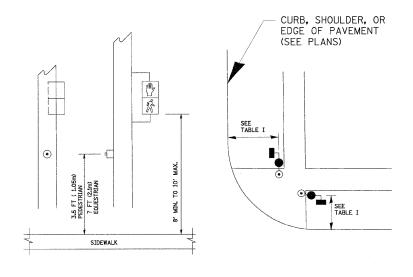


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1 _* 8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

INFRASTRUCTURE
ENGINEERING | INCORPORATES
33 WESt Marrier | Suite 1540 | Chicago, IL 06603
913424559601 | 61342459961 | www.infrastructure-gra

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NTS

DRAWN BY: RWP

DATE: 01-31-2006

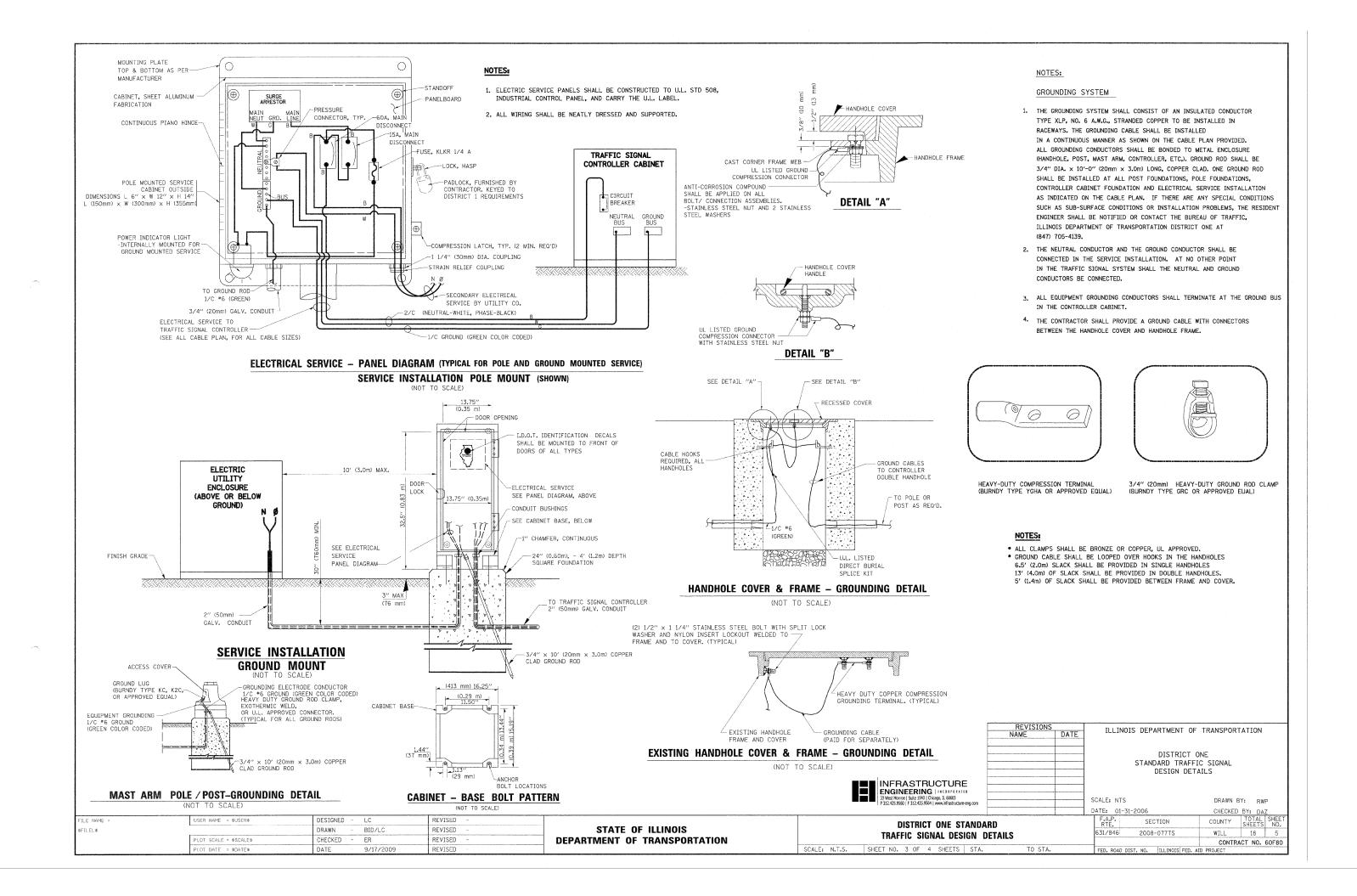
F.A.P. SECTION

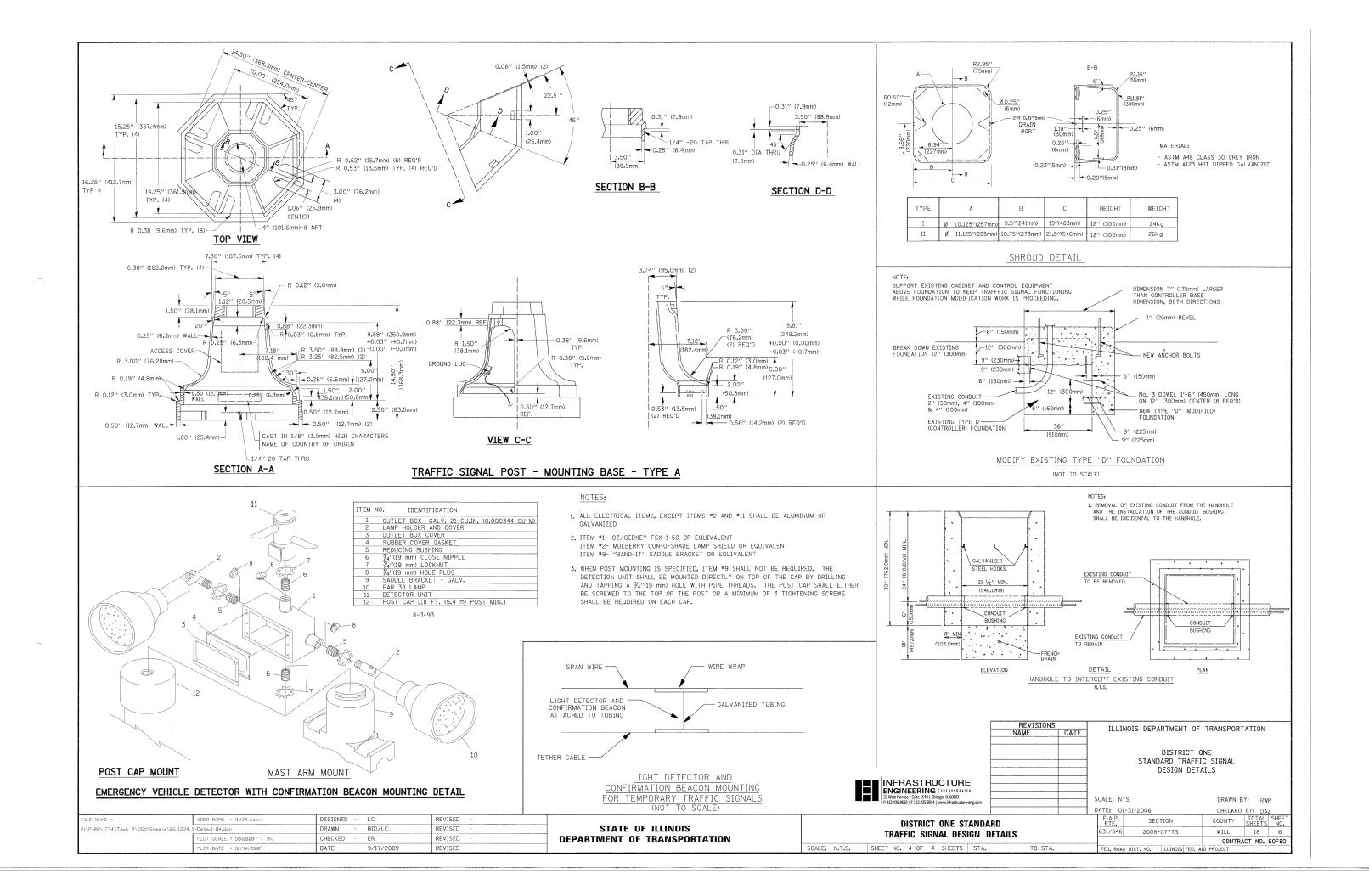
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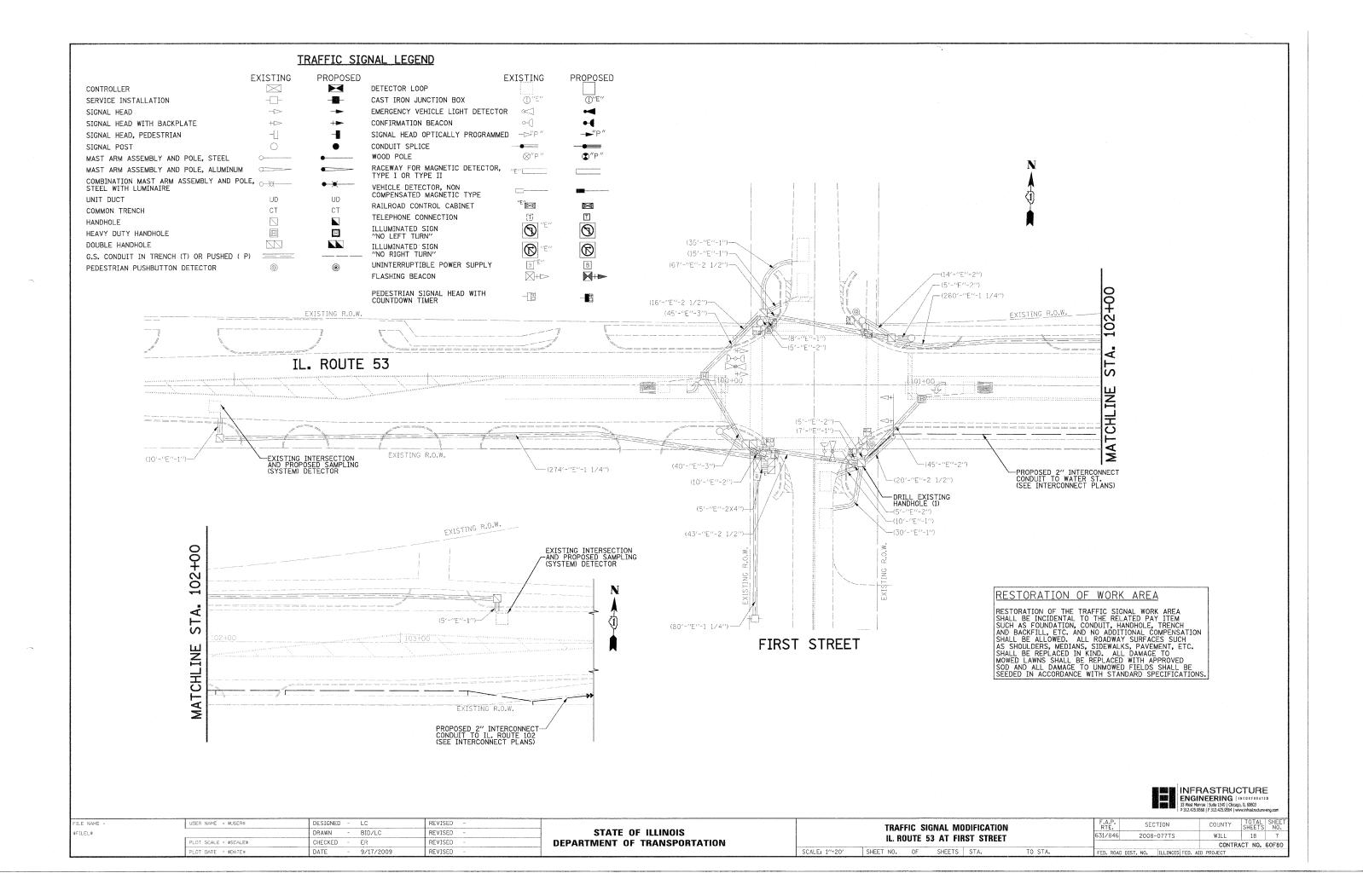
COUNTY TOTAL SHEET NO.

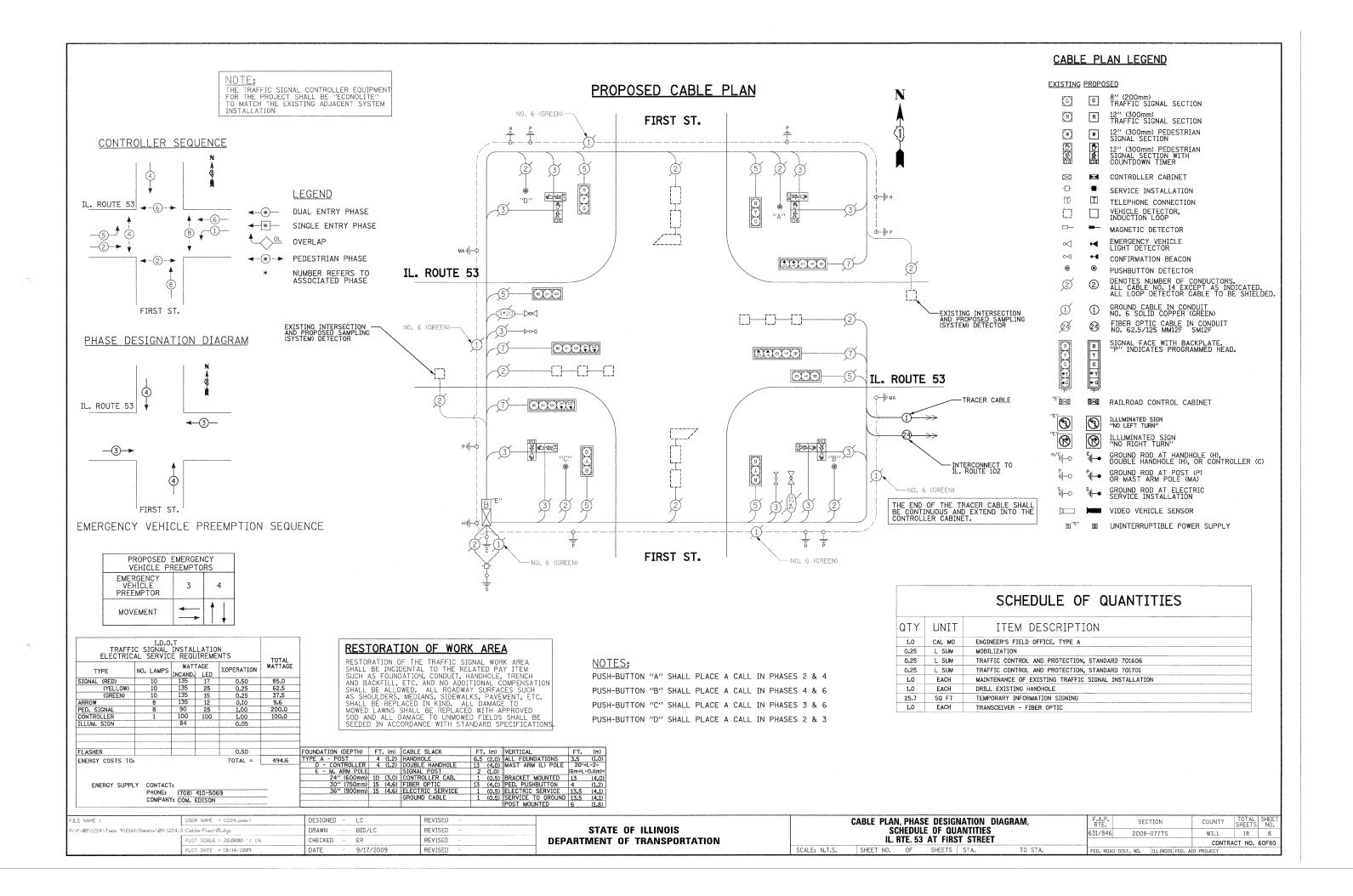
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

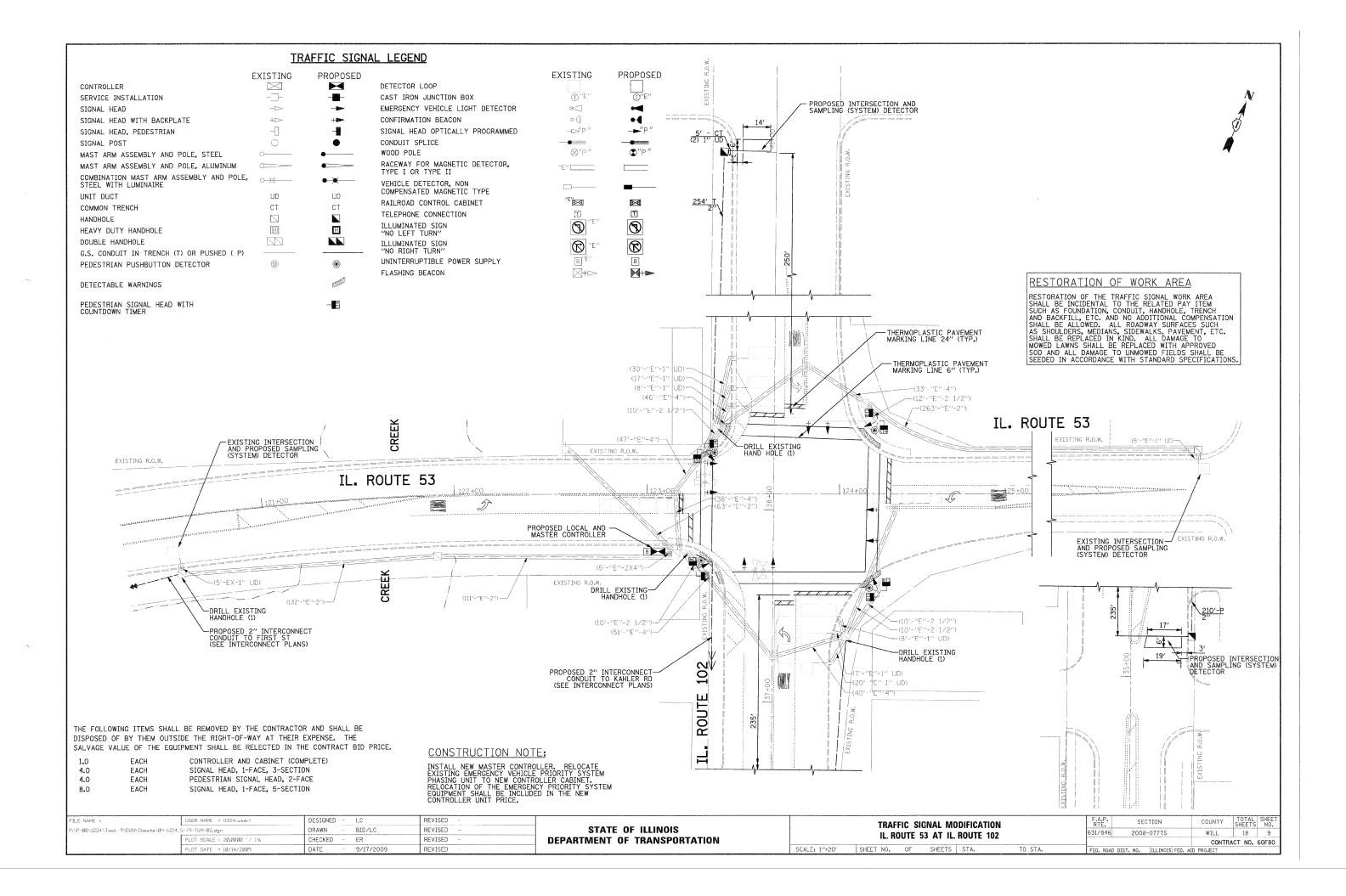
DISTRICT ONE STANDARD
TRAFFIC SIGNAL DESIGN DETAILS

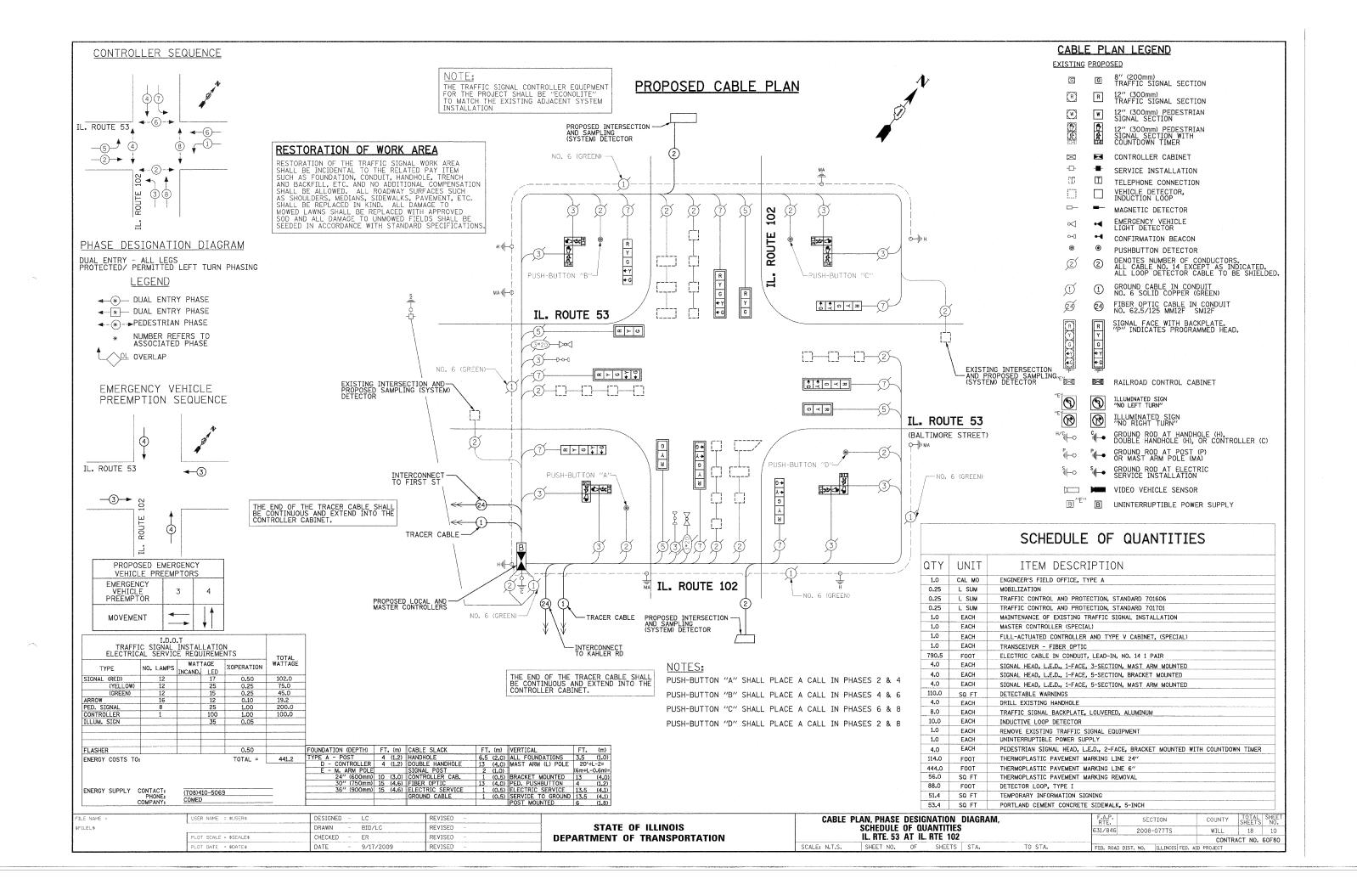


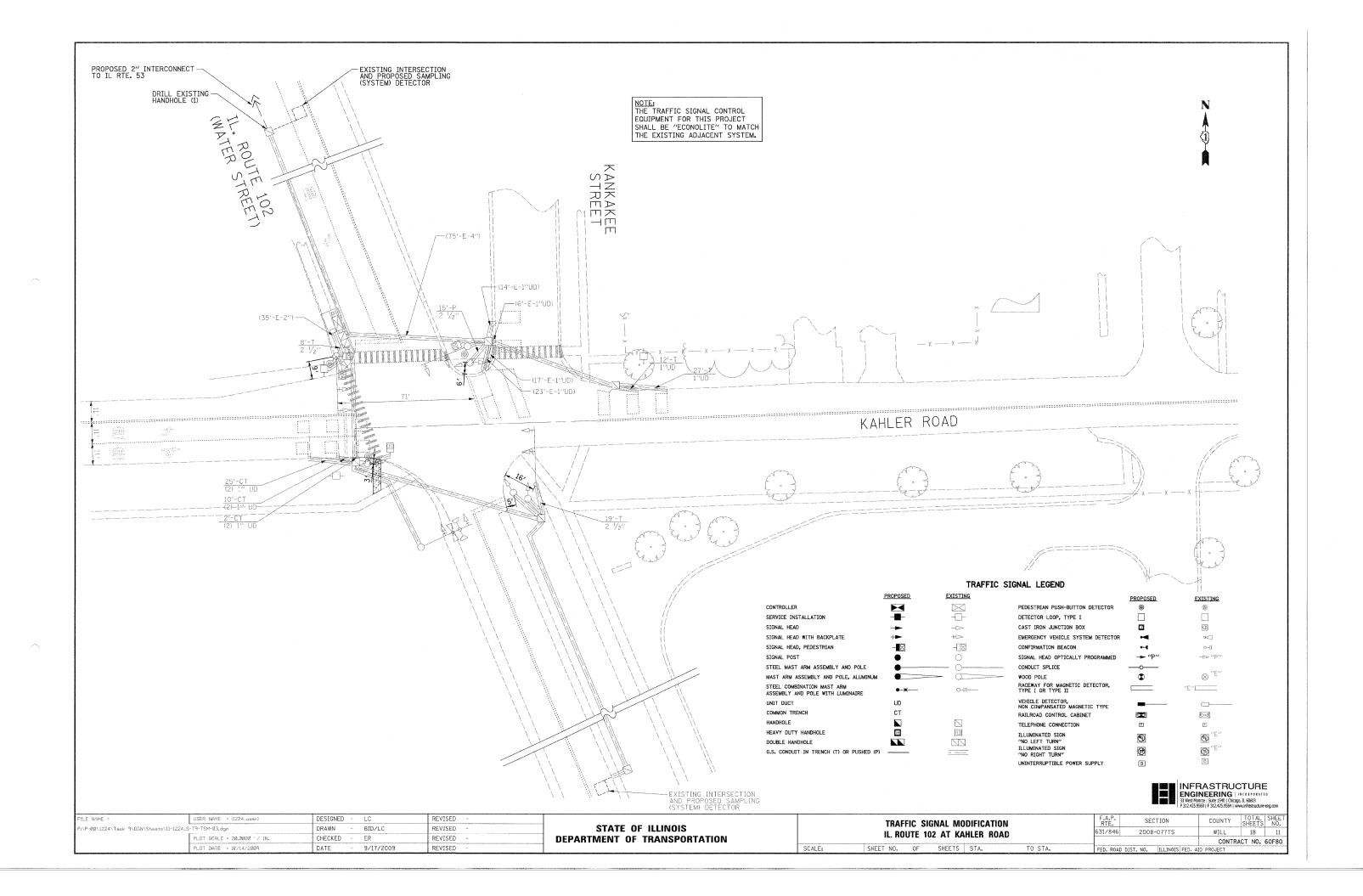




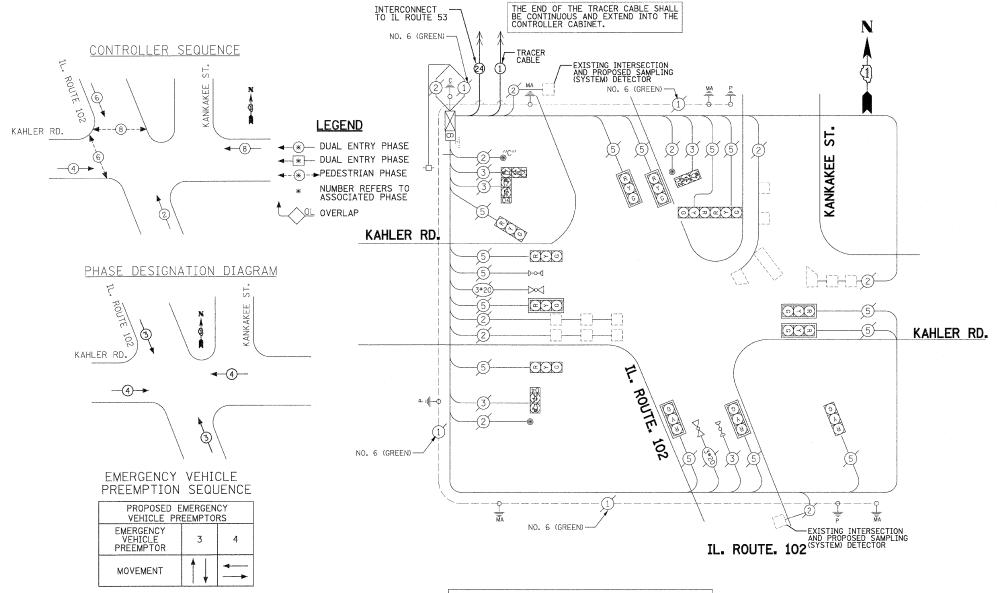








PROPOSED CABLE PLAN



RESTORATION OF WORK AREA

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

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

SOD AND ALL DAMAGE TO UNMOWED FIELDS S
SEEDED IN ACCORDANCE WITH STANDARD SPEC

BID/LC

ER

REVISED

REVISED

DRAWN

CHECKED

TOTAL WATTAGE

440.5

%OPERATION

TOTAL =

PLOT SCALE = 20.00000 '/ [N.

INCAND. LED

TYPE

CONTROLLER ILLUM, SIGN

FLASHER

ENERGY COSTS TO:

P-00\1224\Task 9\06N\Sheets\12 1224.

CABLE PLAN LEGEND

EXISTING PROPOSED

©	G	TRAFFIC SIGNAL	SECTION

R 12" (300mm)
TRAFFIC SIGNAL SECTION

12" (300mm) PEDESTRIAN SIGNAL SECTION

12" (300mm) PEDESTRIAN
SIGNAL SECTION WITH
COUNTDOWN TIMER

SERVICE INSTALLATION

THE TELEPHONE CONNECTION

TELEPHONE CONNECTION

VEHICLE DETECTOR,
INDUSTION LOOP

□─ ■ MAGNETIC DETECTOR

o-d ← CONFIRMATION BEACON

PUSHBUTTON DETECTOR

② DENOTES NUMBER OF CONDUCTORS.
ALL CABLE NO. 14 EXCEPT AS INDICATED.
ALL LOOP DETECTOR CABLE TO BE SHIELDED.

GROUND CABLE IN CONDUIT
NO. 6 SOLID COPPER (GREEN)

FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F

SIGNAL FACE WITH BACKPLATE.
"P" INDICATES PROGRAMMED HEAD.

"E" RAILROAD CONTROL CABINET

"E" S ILLUMINATED SIGN
"NO LEFT TURN"
"E" NO RIGHT TURN"

GROUND ROD AT HANDHOLE (H), OR CONTROLLER (C)

GROUND ROD AT POST (P)
OR MAST ARM POLE (MA)

SHO SHOUND ROD AT ELECTRIC SERVICE INSTALLATION

VIDEO VEHICLE SENSOR

B"E" B UNINTERRUPTIBLE POWER SUPPLY

NOTE:

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THE PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING

ADJACENT SYSTEM INSTALLATION

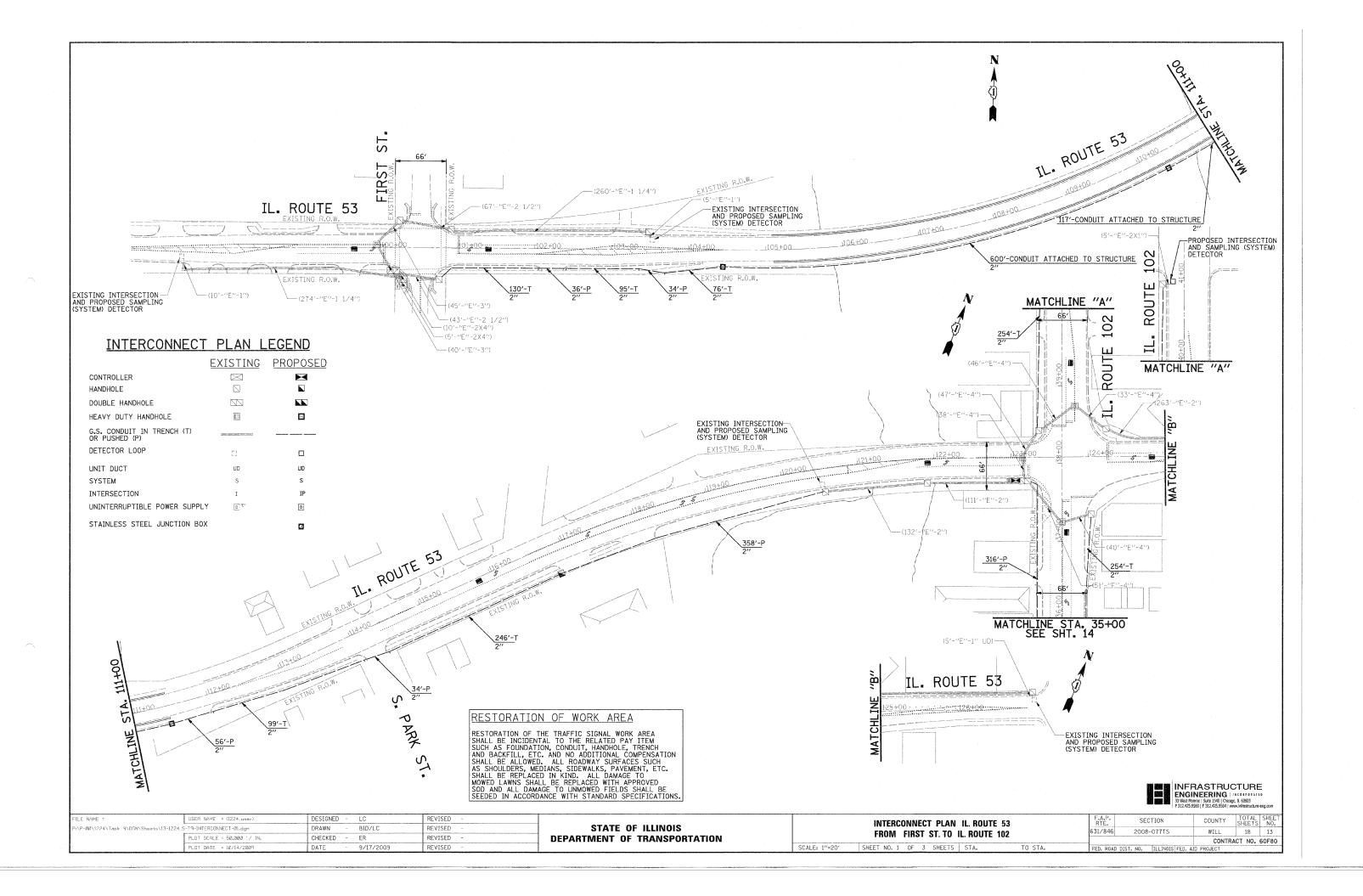
1. PUSH BUTTON "C" SHALL PLACE A CALL TO PHASES 6 AND 8.

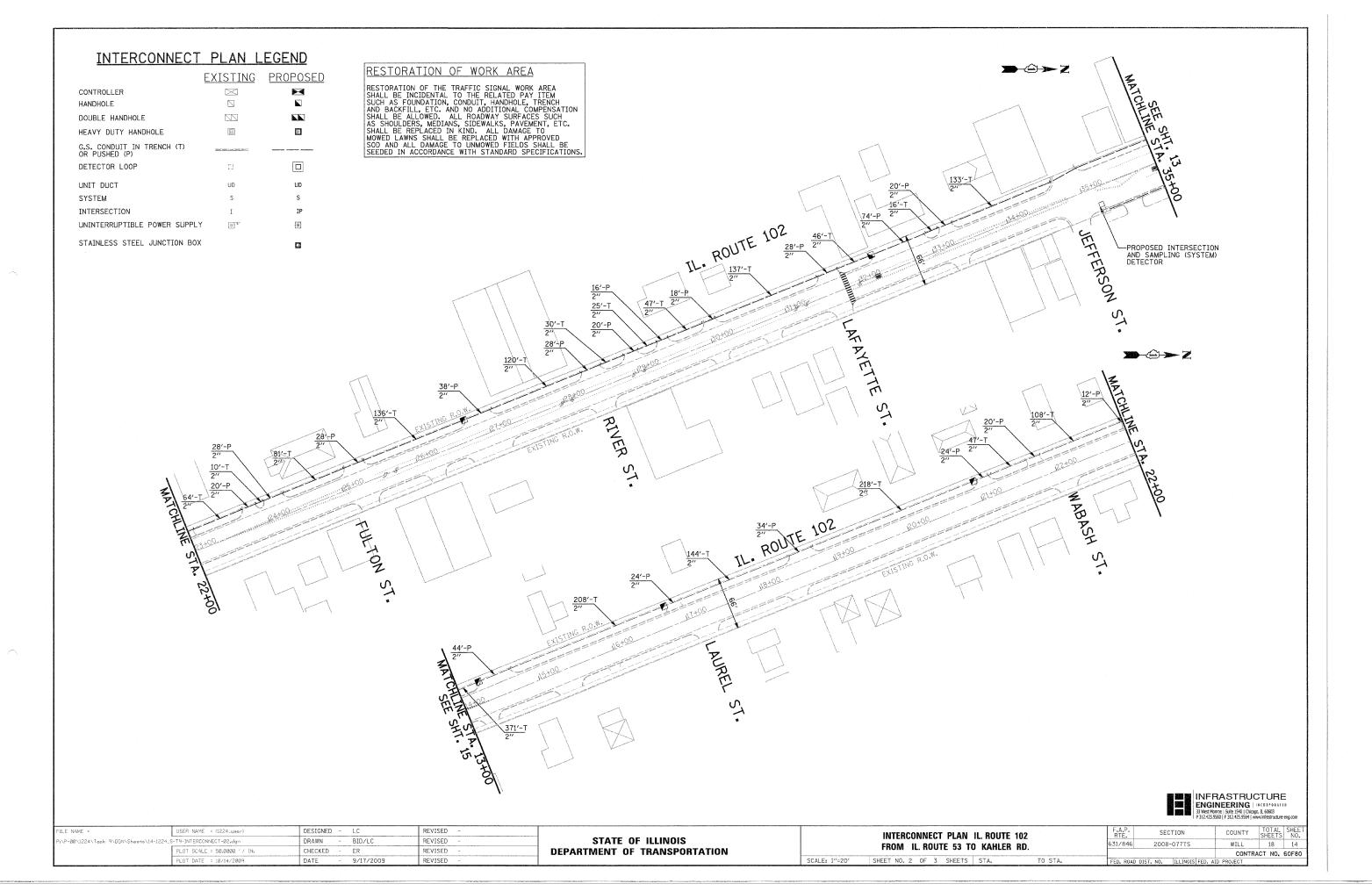
SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
1.0	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
0.25	L SUM	MOBILIZATION
0.25	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
0.25	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
1.0	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1.0	EACH	DRILL EXISTING HANDHOLE
25.7	SQ FT	TEMPORARY INFORMATION SIGNING
1.0	EACH	TRANSCEIVER - FIBER OPTIC

CABLE PLAN, PHASE DESIGNATION DIAGRAM,
SCHEDULE OF QUANTITIES
IL. ROUTE. 102 AT KAHLER RD

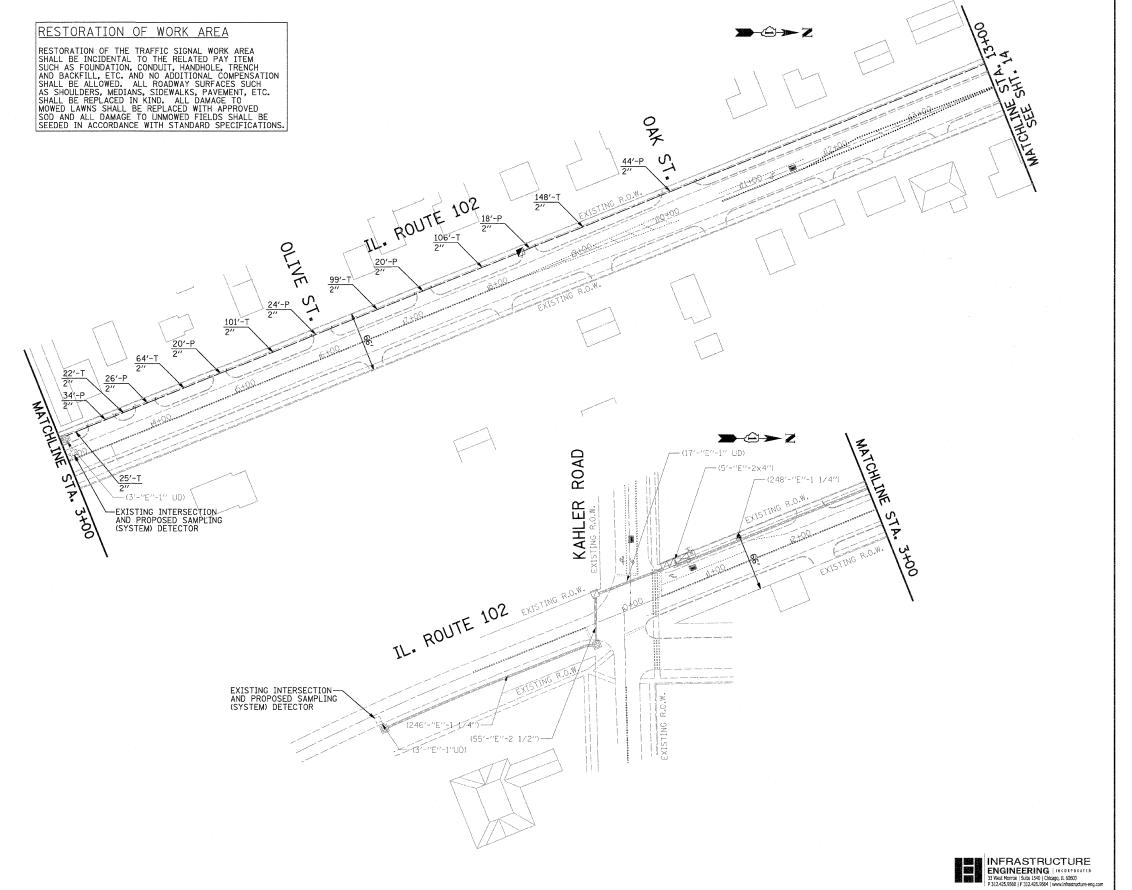
SCALE: N.I.S. SHEFT NO. OF SHEFTS STA. TO STA.



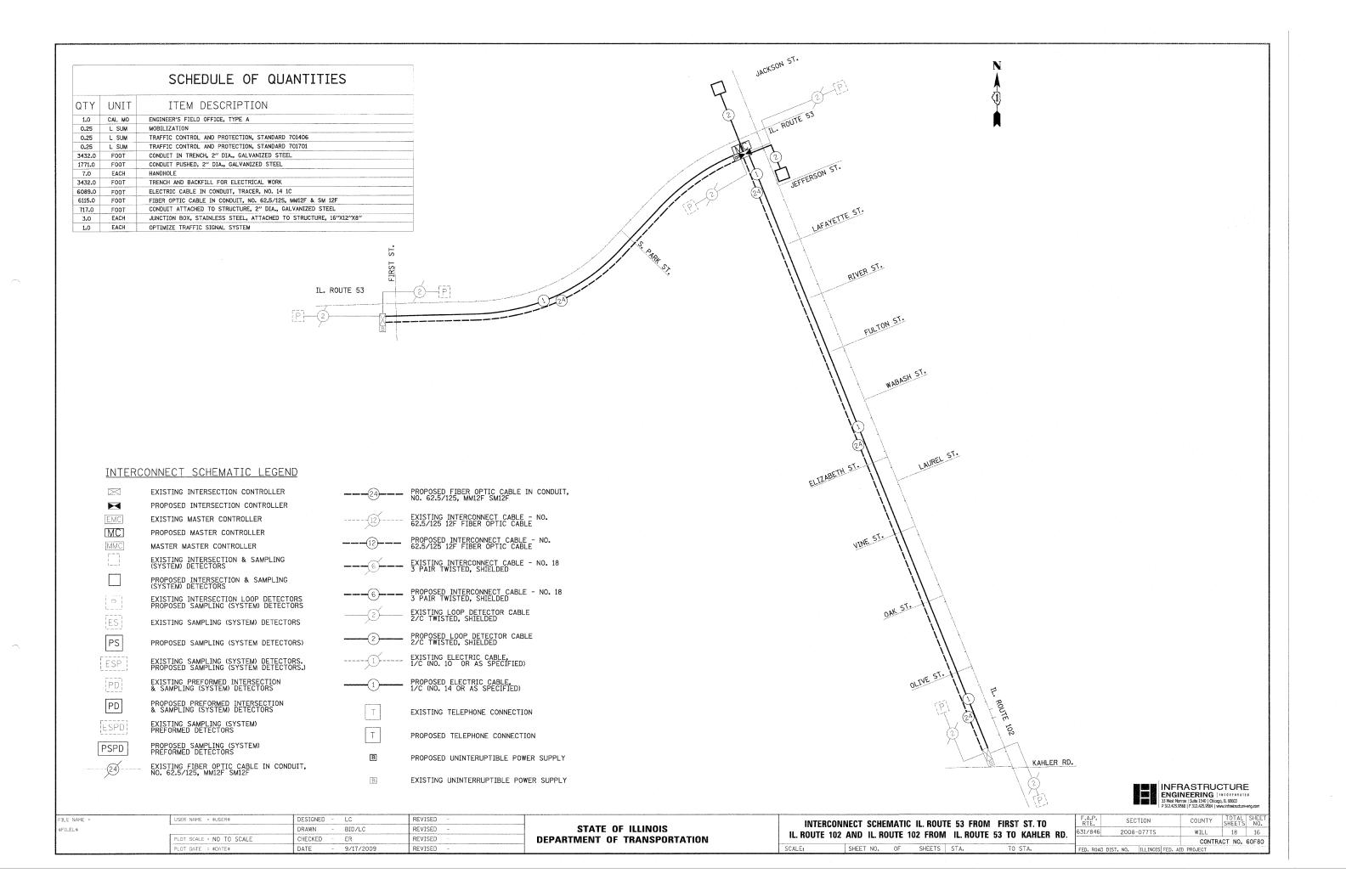


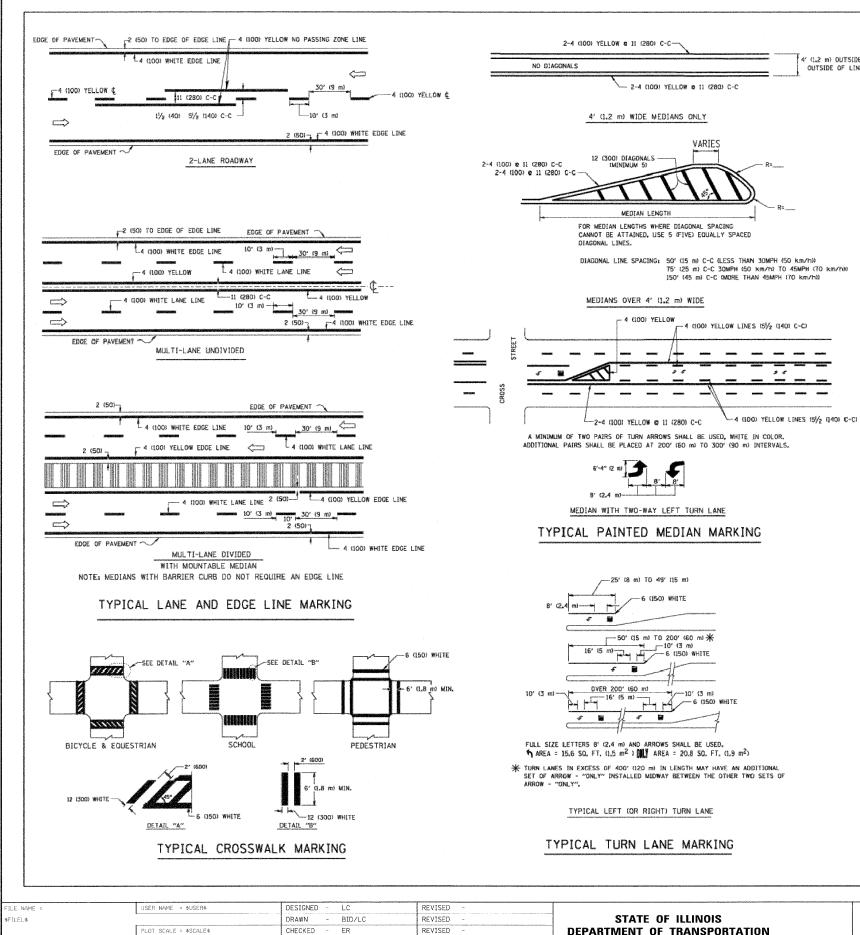
INTERCONNECT PLAN LEGEND

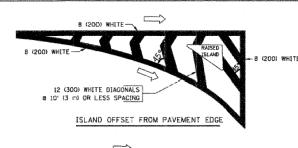
	EXISTING	<u>PROPOSED</u>
CONTROLLER	\bowtie	
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY DUTY HANDHOLE	H	H
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		-
DETECTOR LOOP	7,1	
UNIT DUCT	UĐ	UD
SYSTEM	s	S
INTERSECTION	I	IP
UNINTERRUPTIBLE POWER SUPPL	Y B'c.	В
STAINLESS STEEL JUNCTION BOX	<	0











8 (200) WHITE ---

T4' (1.2 m) OUTSIDE TO

OUTSIDE OF LINES

SECTION COUNTY STA. TO STA. FEB. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

ISLAND

- 2 (50)

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LAME PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 8 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 g 4 (100)	SOLID SOLID	AETTOM AETTOM	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (GOO) LINE WITH 6' (L8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE WARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) 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 m 6 (150) 12 (300) m 45° 12 (300) m 90°	SOLID SOLID SOLID	WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS,
STOP LINES	24 (600)	SOLIO	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 & 4 (100) WITH 12 (300) DIAGONALS 2 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

DATE
03-19-90
10-27-9
10-09-90
10-17-96
01-06-0

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE

DRAWN BY CADD CHECKED BY

FILE NAME =	USER NAME = \$USER\$	DESIGNED - LC	REVISED -					F.A.P.	SECTION	COUNTY	TOTAL SHEET
\$FILEL\$		DRAWN - BID/LC	REVISED -	STATE OF ILLINOIS				631/846	2008-077TS	WILL	18 17
	PLOT SCALE = #SCALE#	CHECKED - ER	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTR	RACT NO. 60F80
1.	PLOT DATE = \$DATES	DATE - 9/17/2009	REVISED -		SCALE:	SHEET NO. 2 OF 16 SHEETS	STA. TO STA.	FED. ROAD DI	IST. NO. ILLINOIS FED. AI	D PROJECT	

