STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

PROPOSED HIGHWAY PLANS

TRAFFIC DATA

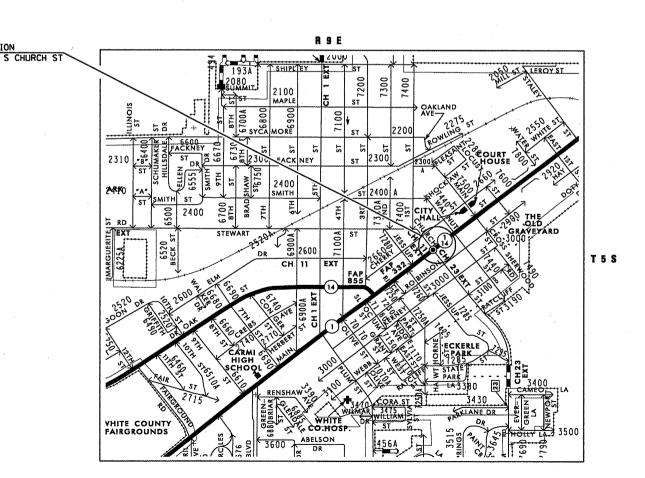
IL 1/14 (FAP 332) EAST OF CHURCH ST - 7000 (2009) 6% TRUCKS CHURCH ST (FAU 8784) SOUTH OF IL 1/14 - 1900 (2009) 9% TRUCKS IL 1/14 (FAP 332) WEST OF CHURCH ST - 9200 (2009) 7% TRUCKS CHURCH ST (FAU 8784) NORTH OF IL 1/14 - 1300 (2009) 9% TRUCKS IL 1/IL 14 (FAP 332)

SECTION D9 CM TRAFFIC SIGNAL FY10–1

TRAFFIC SIGNAL MODERNIZATION

WHITE COUNTY

C-99–048–09



PROJECT ENGINEER SUSAN POE PROJECT MANAGER SUSAN POE

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

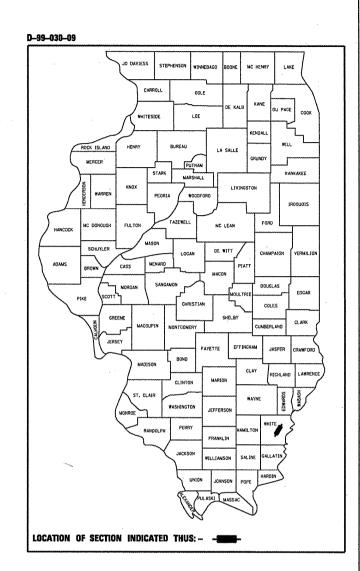
GROSS LENGTH = 78 FT NET LENGTH = 78 FT

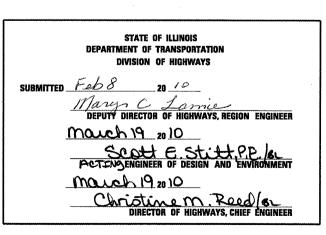
CONTRACT NO. 78123

1--800--892--0123

OR 811

F.A.P. SECTION COUNTY TOTAL SHEET NO. 332 09 CM TRAFFIC SIGNAL FYIO-1 WHITE 8 1 ILLINOIS CONTRACT NO. 78123





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, INDEX OF SHEETS, STANDARDS
- 3 SUMMARY OF QUANTITIES
- 4 EXISTING TRAFFIC SIGNALS
- 5 PROPOSED TRAFFIC SIGNAL PLAN
- 6 PROPOSED TRAFFIC SIGNAL DIAGRAM
- 7 SIDEWALK DETAIL SHEET
- 8 DETAILS PHASE DESIGNATION DIAGRAM, DETECTOR LOOP DETAIL

STANDARDS

	00000\$=05	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
	001006	DECIMAL OF AN INCH AND OF A FOOT
	424001-05	CURB RAMPS FOR SIDEWALKS
	6060010#	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTTER
	701001-0 2	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
	701006-0 3	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' TO 24" FROM PAVEMENT EDGE
	701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
	701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
	701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
	701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEROAD CLOSURE
	701901-01	TRAFFIC CONTROL DEVICES
٠,	857001 - 01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
	878001-08	CONCRETE FOUNDATION DETAILS
	880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
	886001 - 01	DETECTOR LOOP INSTALLATIONS
	886006 - 01	TYPICAL LAYOUT FOR DETECTOR LOOPS
	•	

GENERAL NOTES

ALL NON-ESSENTIAL ELECTRIC CABLE SHALL BE REMOVED FROM EXISTING CONDUIT THAT IS TO BE REUSED FOR INSTALLATION OF PROPOSED ELECTRIC CABLE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE PROPOSED ELECTRIC CABLE PAY ITEM.

ALL PEDESTRIAN PUSH-BUTTON POSTS SHALL BE EQUIPPED WITH TWO DIRECTIONAL SIGNS (RIO-4A).

ALL ELECTRIC CABLE AND CONDUIT QUANTITIES ARE ROUNDED UP TO THE NEAREST 5 FEET.

THE FURNISHING AND INSTALLATION OF THE $1^1\!/_4$ INCH CONDUIT WITH ITS TRENCHING AND BACKFILL FROM THE LOOP SAWCUT TO THE SPLICE POINT SHALL BE INCLUDED IN THE LOOP INSTALLATION UNLESS SHOWN OTHERWISE ON THE PLANS.

THE INDUCTION LOOP WIRE AND LEAD-IN WIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

SHIELDED CABLE TO LOOP LEADS SHALL BE GROUNDED AT THE CONTROLLER TERMINAL ONLY.

ALL DETECTOR LOOP CORNERS SHALL BE CORE DRILLED 2 INCHES MINIMUM DIAMETER EXCEPT THOSE PLACED UNDER RESURFACING. THE DETECTOR LOOP CORNERS PLACED UNDER RESURFACING SHALL BE DIAGONALLY SAWCUT.

CABLE QUANTITIES ARE MEASURED IN PLAN VIEW.

SAWED SLOTS FOR TWISTED PAIR ELECTRIC CABLES SHALL BE LARGER THAN SINGLE CONDUCTOR LOOP SLOTS.

ALL PROPOSED TRAFFIC SIGNAL POSTS WILL BE LOCATED NO CLOSER THAN 41/2 FEET FROM FACE OF CURB TO CENTER OF POST (UNLESS APPROVED BY TRAFFIC OPERATIONS).

THE FINAL LOCATION OF THE DETECTOR LOOPS AND TRAFFIC SIGNAL FOUNDATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER OF TRAFFIC OPERATIONS.

COMMITMENTS

NONE

SCALE:

Prepared By:

DISTRICT STUDIES & PLANS ENGINEER

Examined By:

DISTRICT LAND ACQUISITION ENGINEER

Examined By:

DISTRICT PROCRAM DEVELOPMENT ENGINEER

Examined By:

DISTRICT OPERATIONS ENGINEER

Examined By:

DISTRICT OPERATIONS ENGINEER

Examined By:

DISTRICT MATERIALS INGINEER

DISTRICT MATERIALS INGINEER

Examined By:

DISTRICT MATERIALS INGINEER

DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

DISTRICT PROJECT IMPLEMENTATION ENGINEER

DISTRICT PROJECT ENGINEER

DISTRICT PROJECT ENGINEER

DISTRICT PROJECT ENGINEER

DISTRICT PROJECT ENGINEER

DISTRICT

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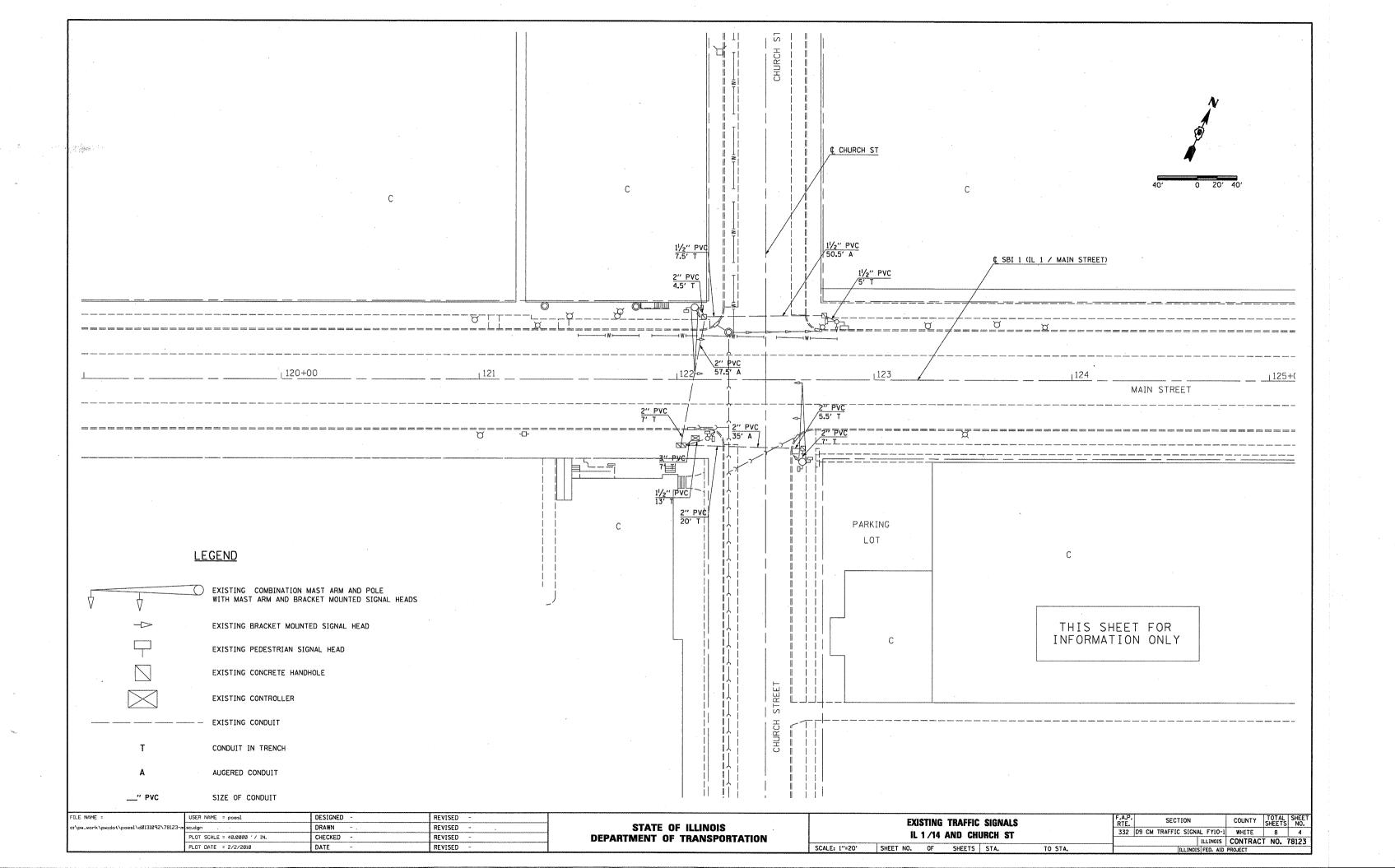
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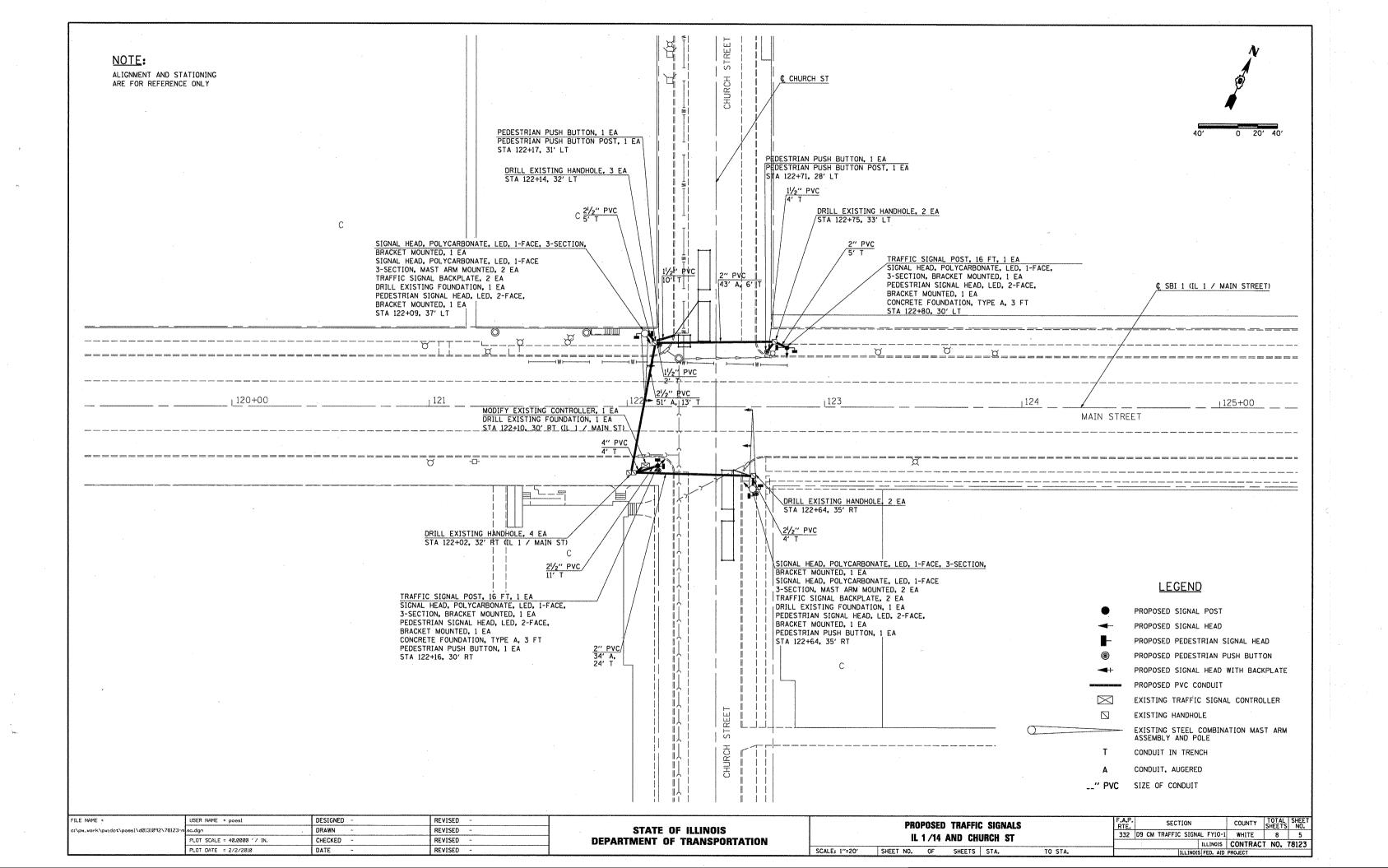
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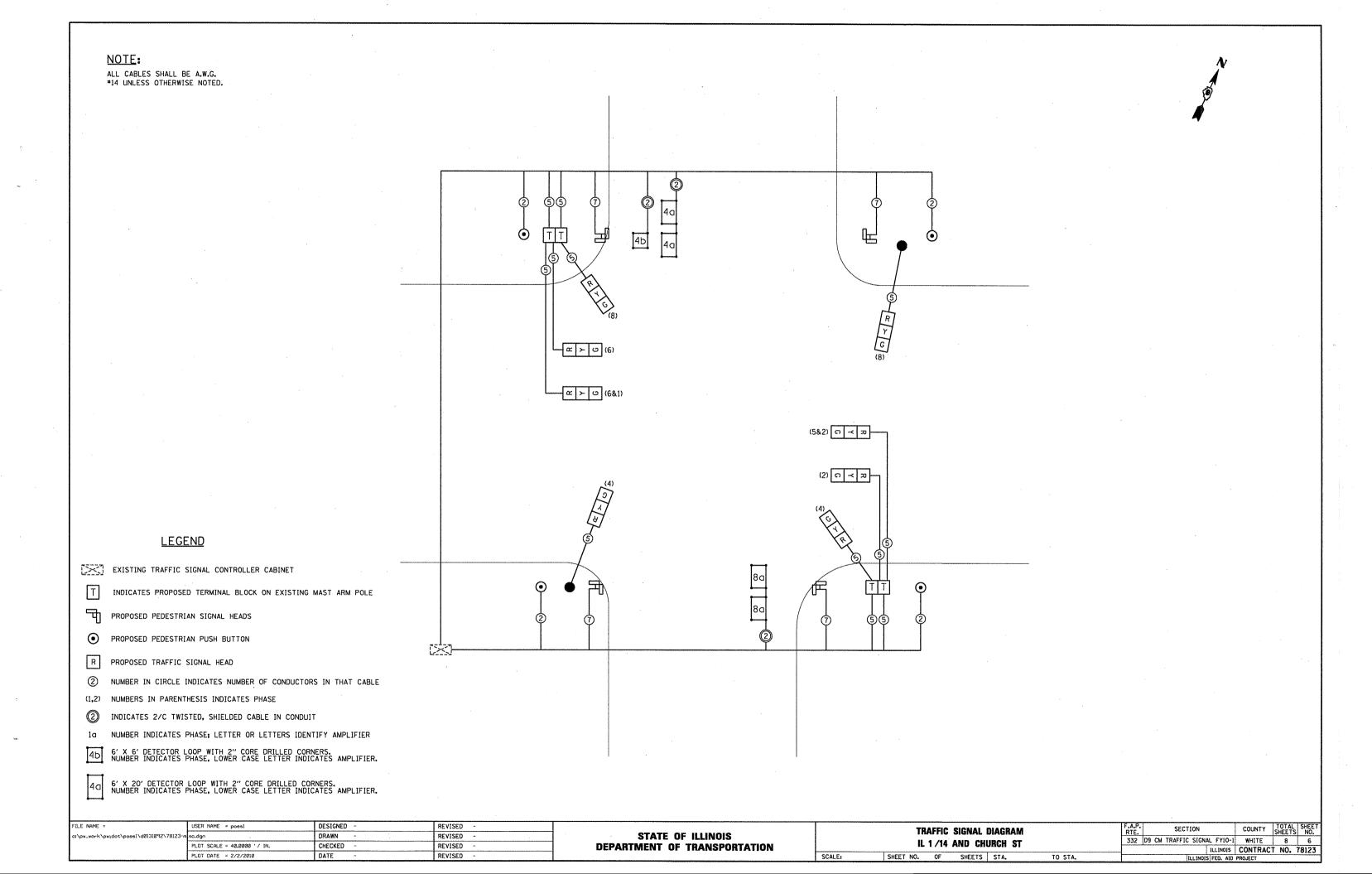
SUMMARY OF QUANTITIES

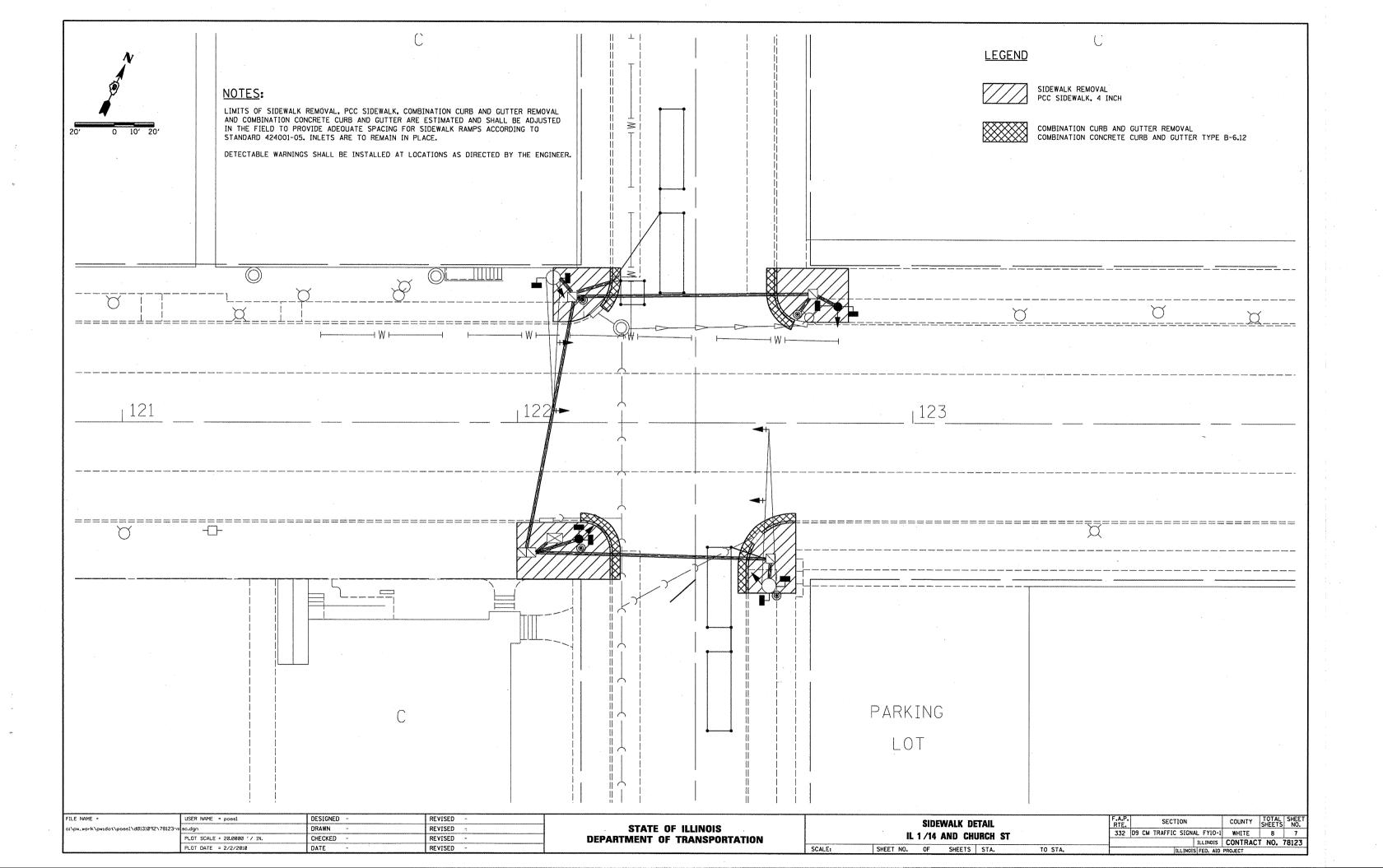
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CODE NUMBER	ITEM	CODE	Y031-1F		
CODE NUMBER	1 I EM	ITEM	TRAFFIC SIGNALS 100% STATE		
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	915		
42400800	DETECTABLE WARNINGS	SQ FT	64		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	66		
44000600	SIDEWALK REMOVAL	SQ FT	915		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 12	FOOT	. 66		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2		
67100100	MOBILIZATION	L SUM	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3		
80300100	LOCATING UNDERGROUND CABLE	FOOT	200		
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	6		
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	35		
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	33		
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	4		
81021550	CONDUIT, AUGERED 2" DIA., PVC	FOOT	77		
81021560	CONDUIT, AUGERED 2 1/2" DIA., PVC	FOOT	51		
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	78		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	392		
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	794		
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	424		
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	286		
87501200	TRAFFIC SIGNAL POST, 16 FT.	EACH	2		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6		
87600100	PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	2		
87900100	DRILL EXISTING FOUNDATION	EACH	3		
87900200	DRILL EXISTING HANDHOLE	EACH	12		
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4		
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4		
88102740	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	4		
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	4 ′		
88600100	DETECTOR LOOP, TYPE I	FOOT	272		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	4		
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		

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	PLOT SCALE = 100.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO. 7		
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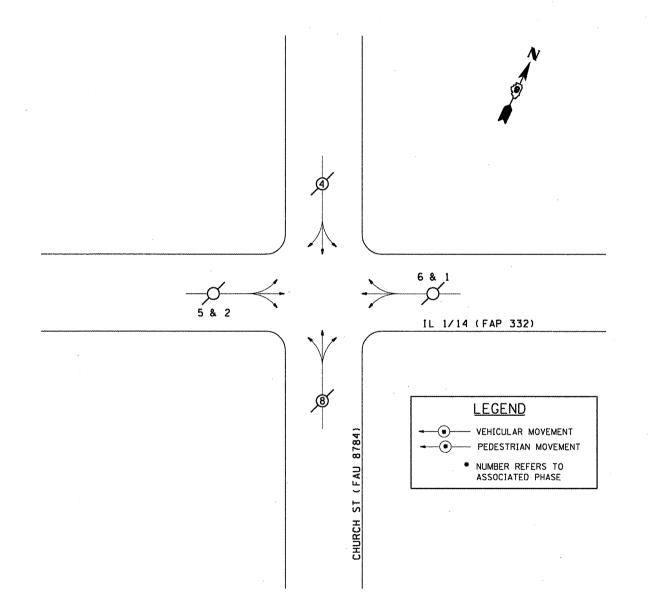




PHASE DESIGNATION DIAGRAM

IL 1/14 (FAP 332) AND CHURCH ST (FAU 8784) CONTROLLER SPECIFIED

REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED AS SHOWN.



STD. 9-66 REVISED 3-27-08

STATE OF ILLINOIS

DETECTOR LOOP DETAIL, PHASE DESIGNATION DIAGRAM SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEET NO.
WHITE 8 8 SECTION 332 D9 CM TRAFFIC SIGNAL FY10-1 CONTRACT NO. 78123

NOTES

DETAIL OF

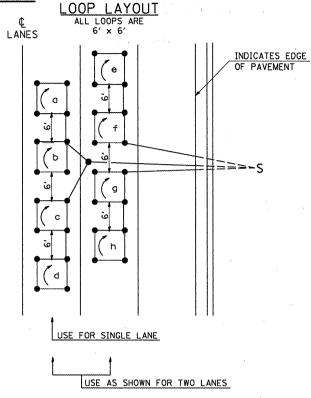
DETECTOR LOOPS

(APPLIES TO 6' x 6' LOOPS ONLY)

- 1. THE DETECTOR LOOPS SHALL BE TYPE I. EACH DETECTOR LOOP SHALL HAVE 3 TURNS OF LOOP WIRE AND BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 886 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 2. BEGINNING LEAD WIRES SHALL BE CONNECTED TO THE BLACK LEAD AND THE ENDING LEAD WIRES SHALL BE CONNECTED TO THE WHITE LEAD OF THE TWIN TWISTED FEED CABLES AT THE SPLICE POINT.
- 3. WHERE THE LOOPS ARE INSTALLED PRIOR TO RESURFACING, THE LOOP CORNERS SHALL BE DIAGONALLY CUT.

LOOP LEGEND

- CLOCKWISE ROTATION FOR LOOP WIRES
- INDICATES SPLICE POINT FOR DETECTOR LOOP LEAD
- INDICATES 2" CORE-DRILL



DETAIL 6' x 6' DETECTOR LOOPS

REVISIONS REDRAWN 5-13-02 REVISED 10-27-05

STD. 9-92

SCALE:

DESIGNED -FILE NAME = USER NAME = poesl REVISED -DRAWN REVISED -PLOT SCALE = 100.0000 '/ IN. CHECKED -REVISED PLOT DATE = 2/2/2010 DATE REVISED

DEPARTMENT OF TRANSPORTATION