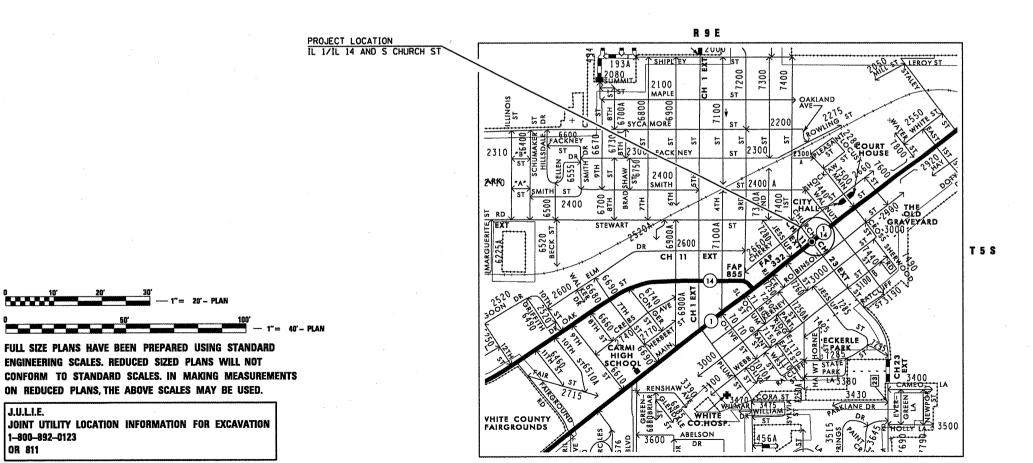
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

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

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

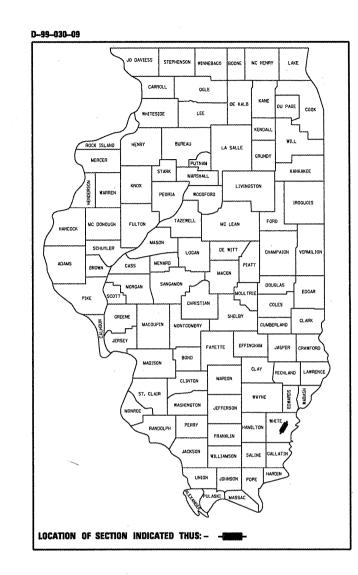
GROSS LENGTH = 78 FT NET LENGTH = 78 FT

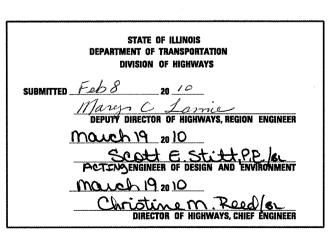
CONTRACT NO. 78123

1-800-892-0123

OR 811

332 D9 CM TRAFFIC SIGNAL FY10-1 WHITE 8





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INDEX OF SHEETS

- 1 COVER SHEET
- 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

000001 05	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
00000‡-05	
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
701006-03	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
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 (R10-4A).

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

THE FURNISHING AND INSTALLATION OF THE 11/4 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: Examined By: genes Truss Cona DISTRICT LAND ACQUISITION ENGINEER Examined By: DISTRICA PROGRAM DEVELOPMENT ENGINEER Examined By: PERATIONS ENGINEER Examined By: Anokew RIET CONSTRUCTION ENGINEER Examined By: Examined By: PROJECT IMPLEMENTATION ENGINEER Examined ASSISTANT REGIONAL ENGINEER Approved By: Zamil DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER 20 10 DATE

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SUMMARY OF QUANTITIES

CODE NUMBER	******	CONSTRUCTION TYPE CODE	FAP 332 (TL14) TOTAL QUANTITIES Y031-1F	
CODE NUMBER	ITEM	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		
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	

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İ	PLOT SCALE = 100.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	İ		CONTRA	ACT NO. 78123
	PLOT DATE = 2/8/2010	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	C1 1404 10123

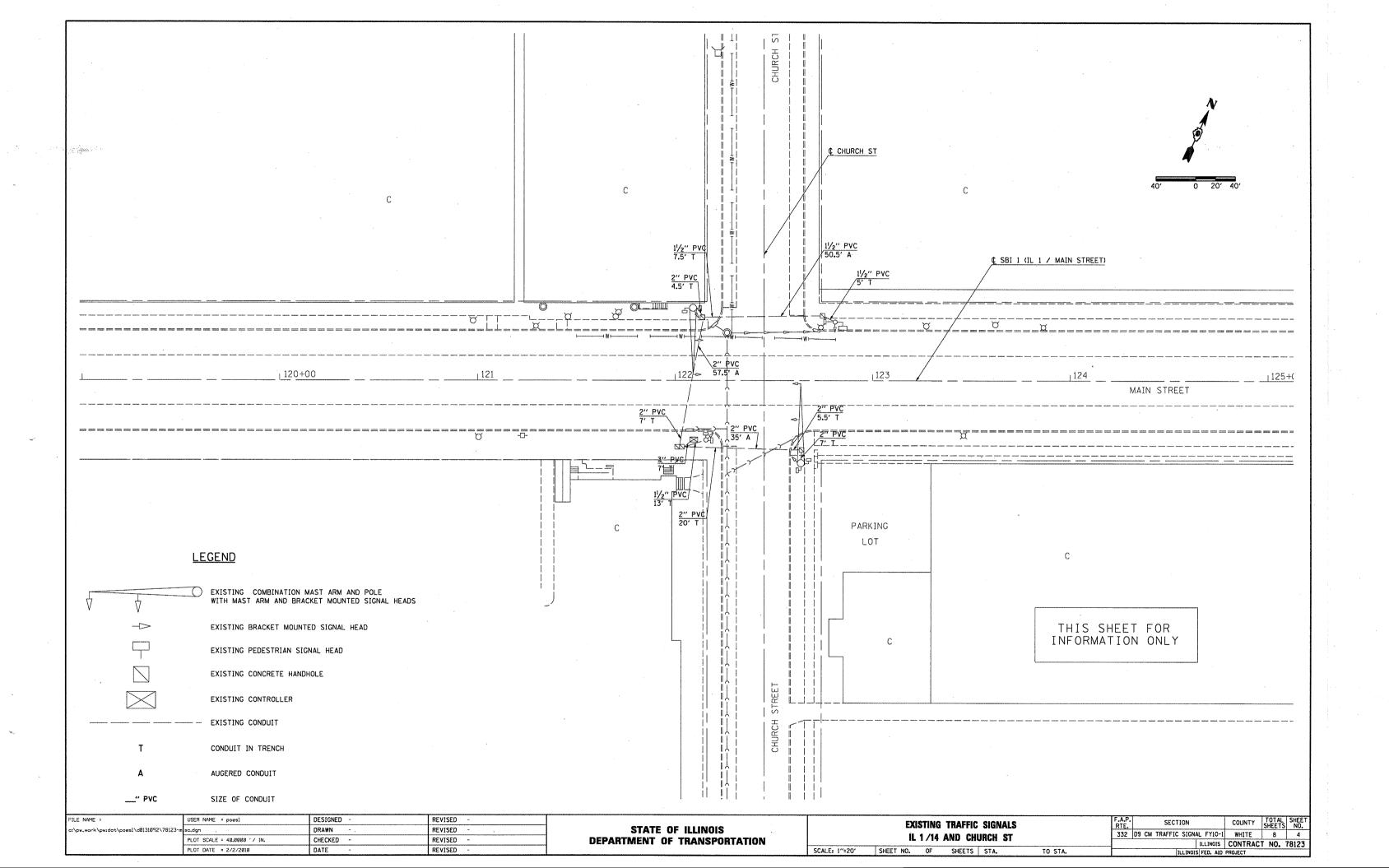
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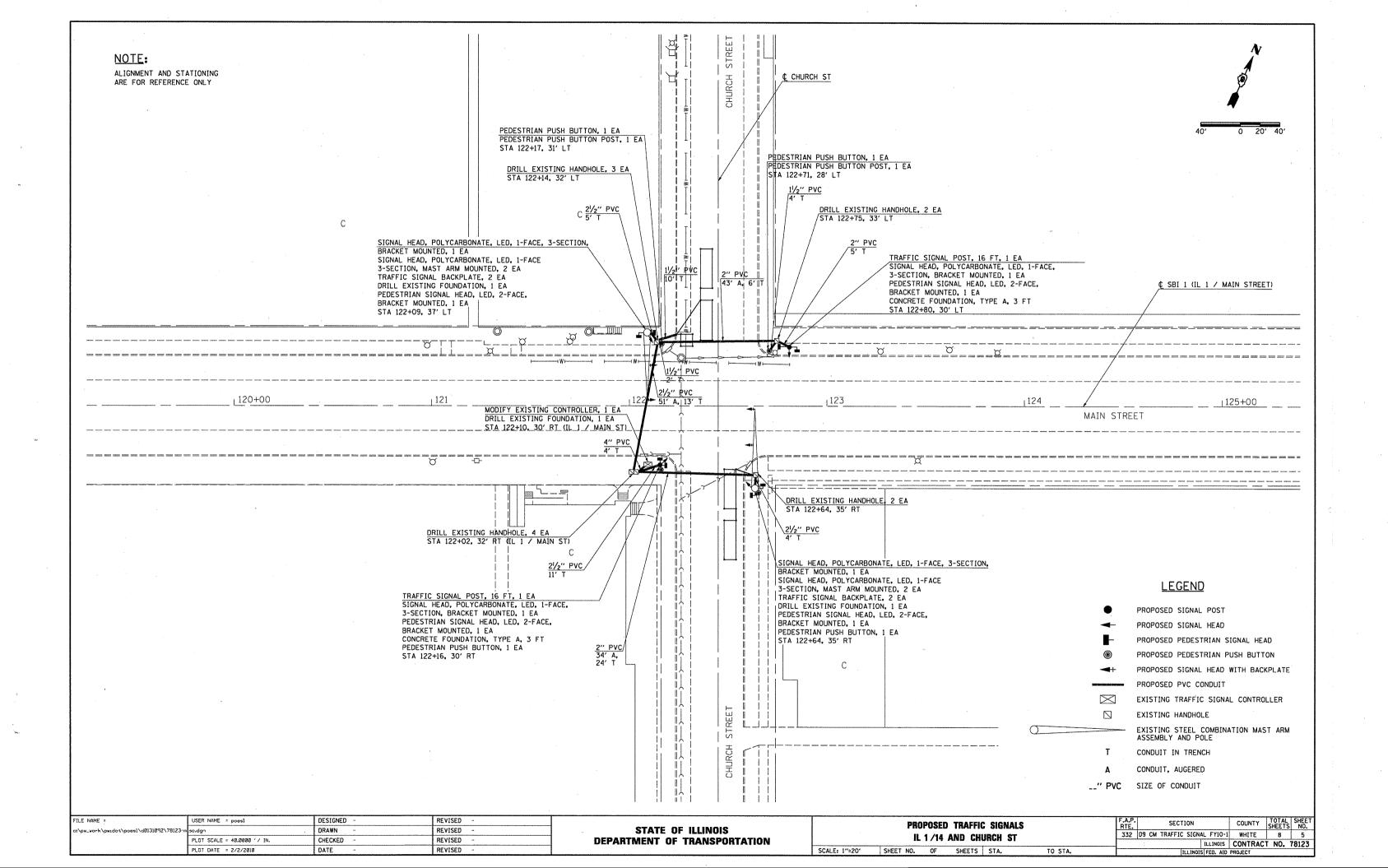
EACH

MODIFY EXISTING CONTROLLER CABINET

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

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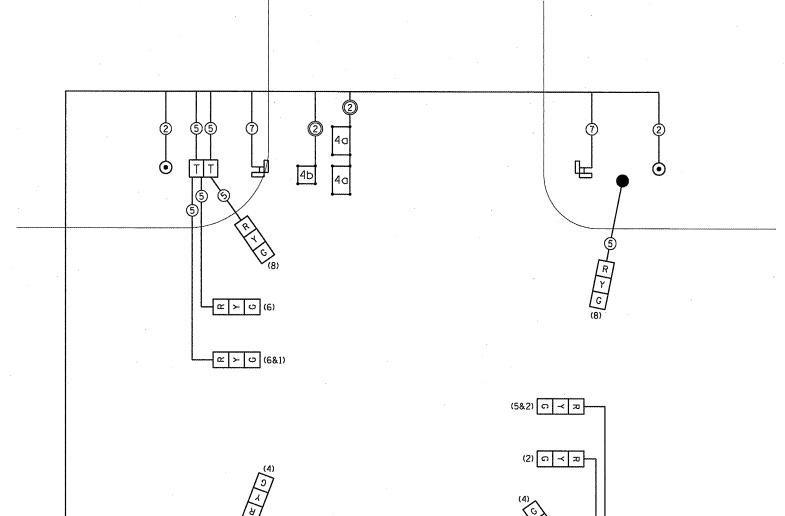






ALL CABLES SHALL BE A.W.G. #14 UNLESS OTHERWISE NOTED.





LEGEND

EXISTING TRAFFIC SIGNAL CONTROLLER CABINET

T INDICATES PROPOSED TERMINAL BLOCK ON EXISTING MAST ARM POLE

PROPOSED PEDESTRIAN SIGNAL HEADS

PROPOSED PEDESTRIAN PUSH BUTTON

R PROPOSED TRAFFIC SIGNAL HEAD

② NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE

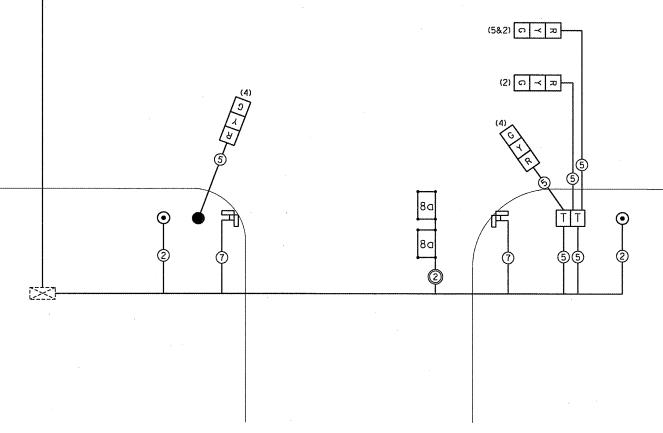
(1,2) NUMBERS IN PARENTHESIS INDICATES PHASE

② INDICATES 2/C TWISTED, SHIELDED CABLE IN CONDUIT

10 NUMBER INDICATES PHASE: LETTER OR LETTERS IDENTIFY AMPLIFIER

6' X 6' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER.

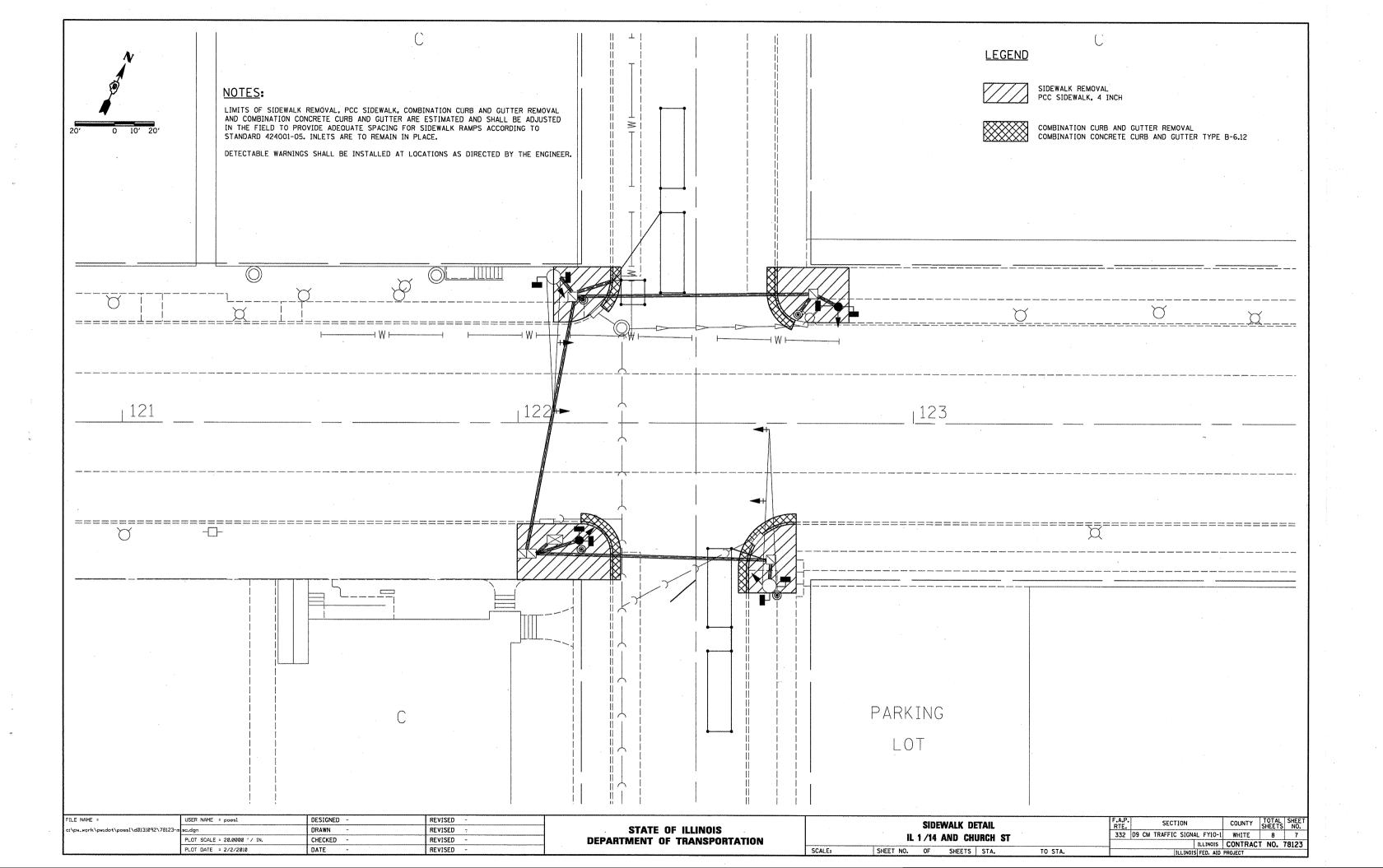
6' X 20' DETECTOR LOOP WITH 2" CORE DRILLED CORNERS. NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER.



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	PLOT DATE = 2/2/2010	DATE -	REVISED -

STATI	E OF	: ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

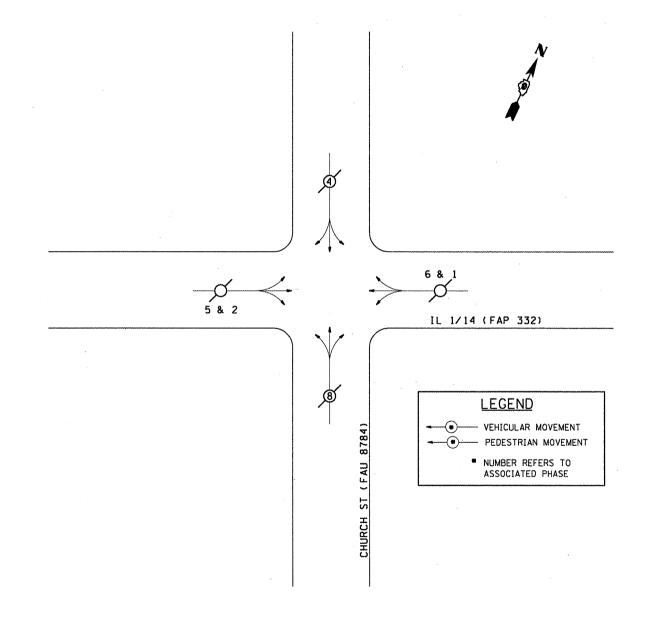
TRAFFIC SIGNAL DIAGRAM					F.A.P. RTE.	SECTION				COUNTY	TOTAL SHEETS	SHEET NO.		
	IL 1 /14 AND CHURCH ST					332	D9 CM	TRAFFIC	SIGNA	_ FY10-1	WHITE	8	6	
										ILLINOIS	CONTRACT	NO.	78123	
	SHEET	NO.	OF	SHEETS	STA.	TO STA.			11	LINOIS	FED. AID	PROJECT		***************************************



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.



REVISIONS
DRAWN	1-31-90		
REVISED	5-30-90		
REVISED	12-18-01		
STD.	9-66	REVISED	3-27-08

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

F.A.P. SECTION COUNTY TOTAL SHEETS NO. 332 D9 CM TRAFFIC SIGNAL FYIO-1 WHITE 8 8 **DETECTOR LOOP DETAIL,** PHASE DESIGNATION DIAGRAM SHEET NO. OF SHEETS STA. TO STA.

DETAIL OF DETECTOR LOOPS

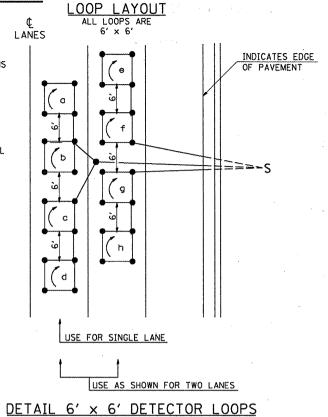
NOTES

(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



CONTRACT NO. 78123

STD. 9-92