

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAS ROUTE 1807 (U.S. ROUTE 50)
SECTION D7 SIGNAL MODERNIZATION 2012-1

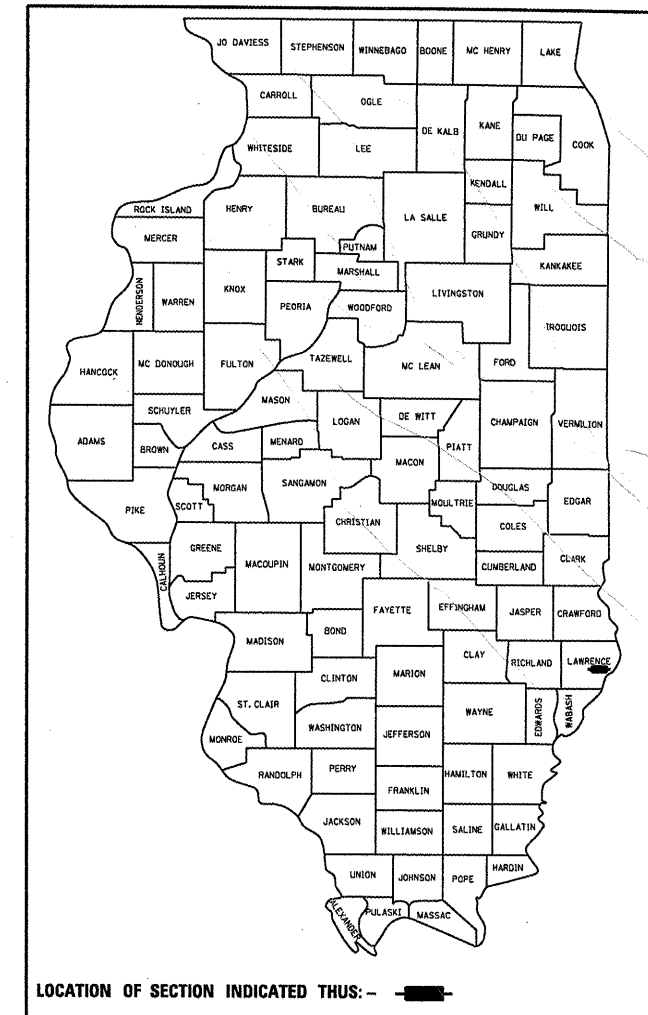
TYPE of IMPROVEMENT
LAWRENCE COUNTY

C-97-091-11

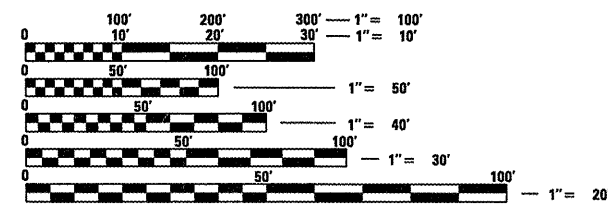
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1807		LAWRENCE	6	1
		ILLINOIS	CONTRACT NO. 74538	

D7 SIGNAL MODERNIZATION 2012-1

D-97-040-11

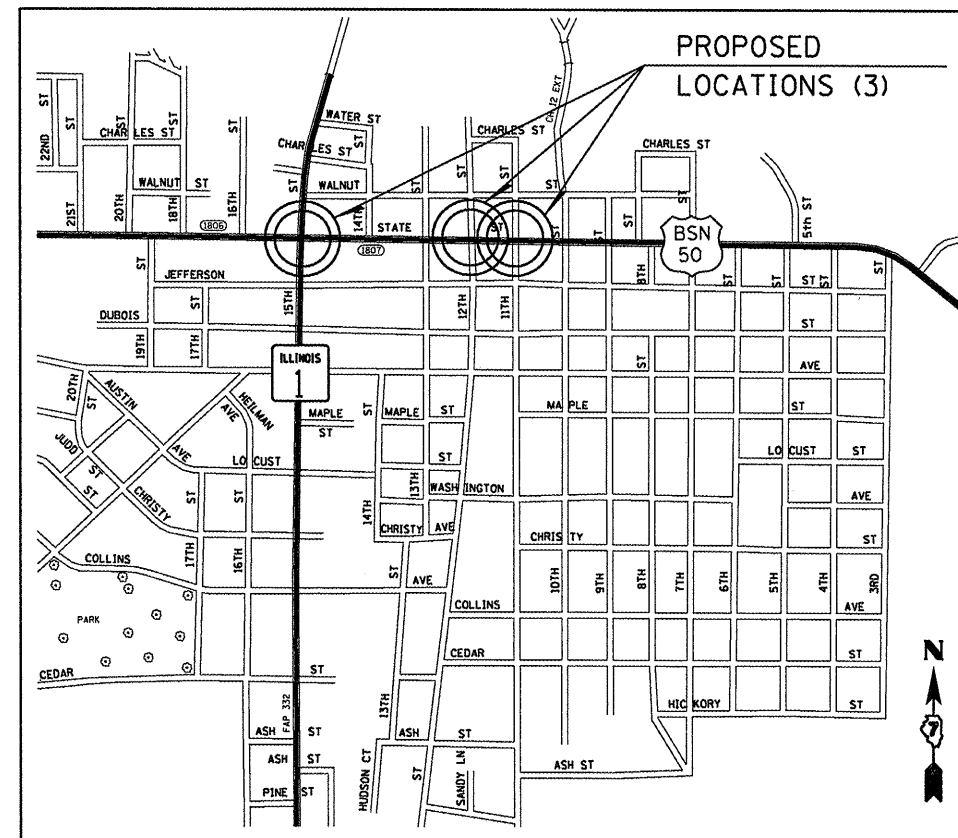


FOR INDEX OF SHEETS, SEE SHEET NO. 2



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 LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



PROJECT ENGINEER-ROB MACKLIN
PROJECT MANAGER-LYNN McCLELLAN

CONTRACT NO. 74538

GROSS LENGTH = x.xx FT. = x.xxx MILE
NET LENGTH = x.xx FT. = x.xxx MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 8 2011
Roger J. Bruckell, esq.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Feb 3 2012
John D. Barancelli, P.E., B.C.
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 3 2012
William R. Frey, Jr.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

TRAFFIC SIGNAL GENERAL NOTES

THIS TRAFFIC SIGNAL PROJECT IS LOCATED AT THE INTERSECTIONS OF 15TH STREET & STATE STREET, 12TH STREET & STATE STREET AND 11TH STREET & STATE STREET IN THE CITY OF LAWRENCEVILLE, LAWRENCE COUNTY. THE WORK INCLUDED IN THIS SECTION CONSISTS OF THE REMOVAL AND REPLACEMENT OF TRAFFIC SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS, PEDESTRIAN PUSH-BUTTONS AND INSTALLING AUDIBLE PEDESTRIAN SIGNALS AND ALL OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED.

ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 PLAN LAYOUT AND BILL OF MATERIALS-15th & STATE ST
- 5 PLAN LAYOUT AND BILL OF MATERIALS-12th & STATE ST
- 6 PLAN LAYOUT AND BILL OF MATERIALS-11th & STATE ST

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 6:

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 12' TO 24" FROM PAVEMENT EDGE
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701901-02 TRAFFIC CONTROL DEVICES
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

FILE NAME =	USER NAME = administrator	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS GENERAL NOTES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
al:\pwork\pvidot\steffenk\d0272652\074538-shi-index.dgn	PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -			1807	*	Lawrence	6	2	
	PLOT DATE = 12/9/2011	CHECKED -	REVISED -			CONTRACT NO. 74538					
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021	0021 CITY ONLY
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
87502660	TRAFFIC SIGNAL POST, ALUMINUM 12 FT.	EACH	1	1	
87502720	TRAFFIC SIGNAL POST, ALUMINUM 18 FT.	EACH	2	2	
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2	
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	22	22	
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2	2	
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2	2	
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2	2	
88102845	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	11	11	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0021	0021 CITY ONLY
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	28	28	
88500100	INDUCTIVE LOOP DETECTOR	EACH	8	8	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8	8	
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	3	3	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3	3	
X8760202	ACCESSIBLE PEDESTRIAN SIGNALS (SPECIAL)	EACH	24		24

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	PLOT SCALE = 100.0000" / in.	CHECKED -	REVISED -
	PLOT DATE = 12/9/2011	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUNATITIES			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1807		Lawrence	6	3
			CONTRACT NO. 74538	
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS
15TH STREET & STATE STREET

ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL POST, ALUMINUM, 18 FT.	EACH	2.0
SIGNAL HEAD, POLYCARBONAE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONAE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6.0
SIGNAL HEAD, POLYCARBONAE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2.0
SIGNAL HEAD, POLYCARBONAE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	12.0
INDUCTIVE LOOP DETECTOR	EACH	8.0
PEDESTRIAN PUSH-BUTTON	EACH	8.0
MODIFY EXISTING CONTROLLER CABINET	EACH	1.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
ACCESSIBLE PEDESTRIAN SIGNAL (SPECIAL)	EACH	8.0

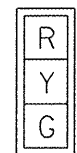
MODIFY EXISTING CONTROLLER CABINET:

REMOVE AND INSTALL NEW LOAD SWITCHES
10+2 SPARES = 12 TOTAL
REMOVE AND INSTALL NEW FLASHER LOAD SWITCH

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

2 EACH TRAFFIC SIGNAL POST (SE/NW QUADS)
2 EACH 1-FACE, 3-SECTION BRACKET MOUNT TRAFFIC SIGNAL HEADS
6 EACH 1-FACE, 3-SECTION MAST ARM MOUNT TRAFFIC SIGNAL HEADS
2 EACH 1-FACE, 5-SECTION BRACKET MOUNT TRAFFIC SIGNAL HEADS
2 EACH 1-FACE, 5-SECTION MAST ARM MOUNT TRAFFIC SIGNAL HEADS
4 EACH 2-FACE, PEDESTRIAN SIGNAL HEADS
8 EACH PEDESTRIAN PUSH-BUTTONS

LEGEND



Proposed Signal Head with Backplate

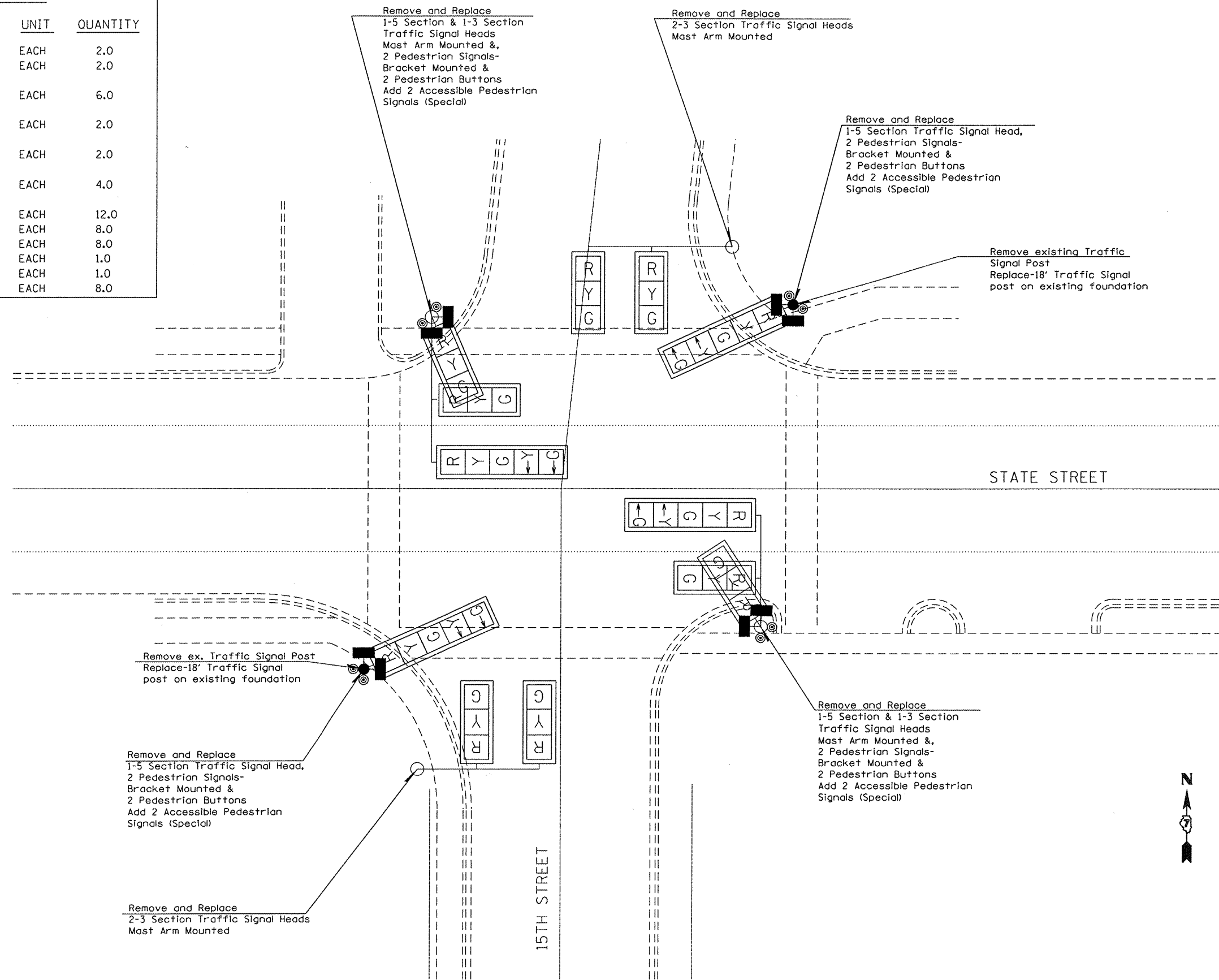


Proposed Pedestrian Signal Head

Proposed Signal Post

Proposed Pedestrian Push-Button

Existing Mast Arm



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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAL MODERNIZATION			
INTERSECTION OF 15TH ST & STATE ST			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1807	*	Lawrence	6	4
			CONTRACT NO. 74538	
ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS
12TH STREET & STATE STREET

ITEM	UNIT	QUANTITY
TRAFFIC SIGNAL POST, ALUMINUM, 12 FT.	EACH	1.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	2.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	3.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8.0
MODIFY EXISTING CONTROLLER CABINET	EACH	1.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
ACCESSIBLE PEDESTRIAN SIGNAL (SPECIAL)	EACH	8.0

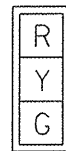
MODIFY EXISTING CONTROLLER CABINET:

REMOVE AND INSTALL NEW LOAD SWITCHES
8+2 SPARES = 10 TOTAL
REMOVE AND INSTALL NEW FLASHER LOAD SWITCH

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

1 EACH TRAFFIC SIGNAL POST (SE QUAD)
8 EACH 1-FACE, 3-SECTION MAST ARM MOUNT TRAFFIC SIGNAL HEADS
2 EACH 1-FACE, PEDESTRIAN SIGNAL HEADS
3 EACH 2-FACE, PEDESTRIAN SIGNAL HEADS

LEGEND



Proposed Signal Head with Backplate



Proposed Pedestrian Signal Head



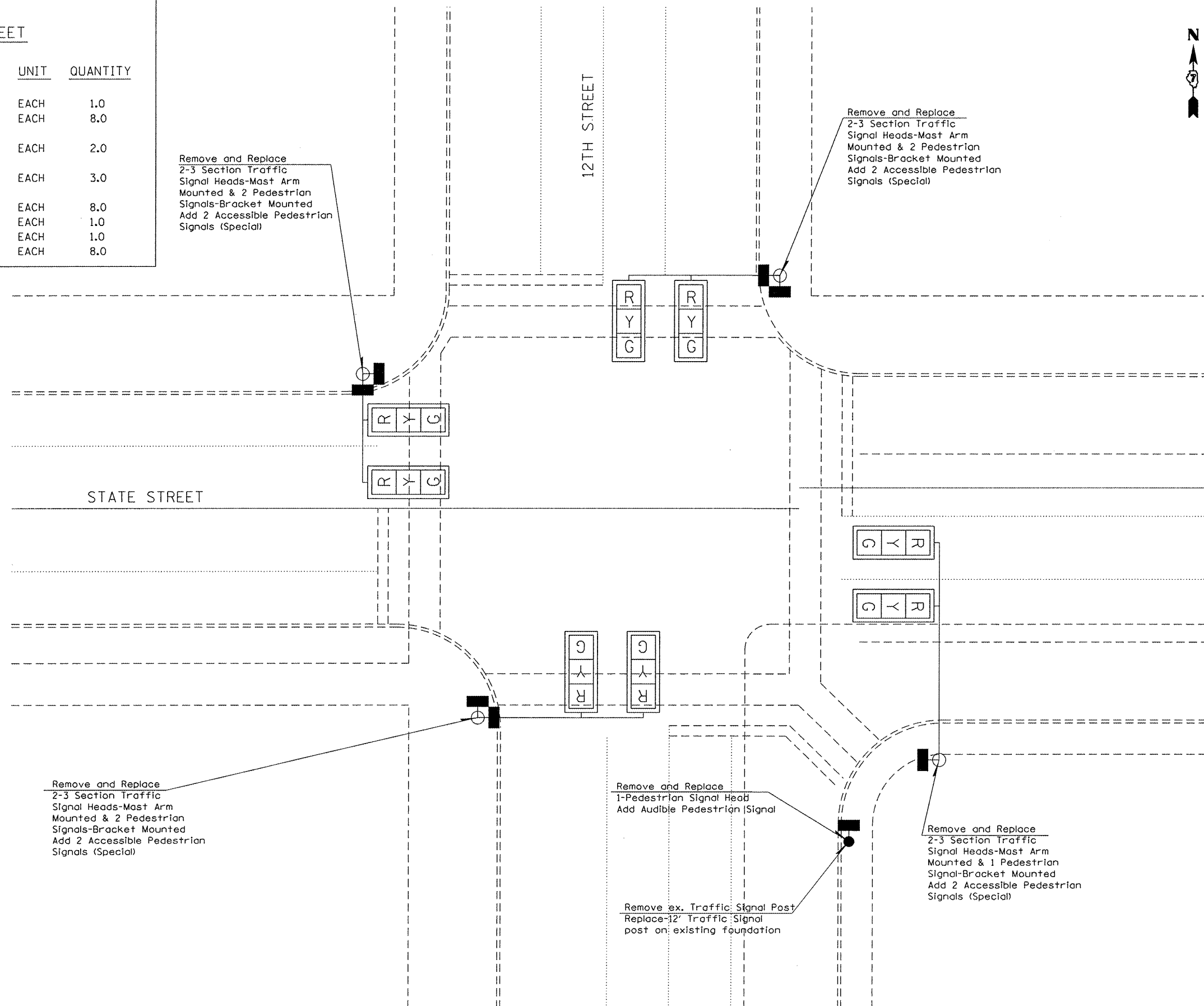
Proposed Signal Post



Proposed Pedestrian Push-Button



Existing Mast Arm



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		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAL MODERNIZATION			
INTERSECTION OF 12TH ST & STATE ST			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1807	*	Lawrence	6	5
			CONTRACT NO. 74538	
ILLINOIS FED. AID PROJECT				



Remove and Replace
2-3 Section Traffic
Signal Heads-Mast Arm
Mounted & 2 Pedestrian
Signals-Bracket Mounted
Add 2 Accessible Pedestrian
Signals (Special)

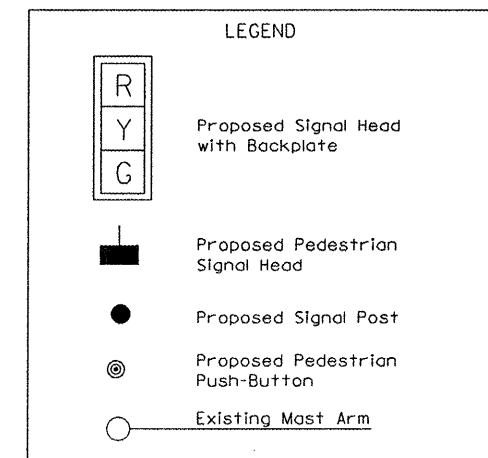
11TH STREET

Remove and Replace
2-3 Section Traffic
Signal Heads-Mast Arm
Mounted & 2 Pedestrian
Signals-Bracket Mounted
Add 2 Accessible Pedestrian
Signals (Special)

BILL OF MATERIALS 11TH STREET & STATE STREET		
ITEM	UNIT	QUANTITY
SIGNAL HEAD, POLYCARBONAE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8.0
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4.0
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8.0
MODIFY EXISTING CONTROLLER CABINET	EACH	1.0
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1.0
ACCESSIBLE PEDESTRIAN SIGNAL (SPECIAL)	EACH	8.0

MODIFY EXISTING CONTROLLER CABINET:
REMOVE AND INSTALL NEW LOAD SWITCHES
8+2 SPARES = 10 TOTAL
REMOVE AND INSTALL NEW FLASHER LOAD SWITCH

REMOVE EXISTING TRAFFIC SIGNAL
EQUIPMENT:
8 EACH 1-FACE, 3-SECTION MAST ARM
MOUNT TRAFFIC SIGNAL HEADS
4 EACH 2-FACE, PEDESTRIAN SIGNAL HEADS



Remove and Replace
2-3 Section Traffic
Signal Heads-Mast Arm
Mounted & 2 Pedestrian
Signals-Bracket Mounted
Add 2 Accessible Pedestrian
Signals (Special)

STATE STREET

Remove and Replace
2-3 Section Traffic
Signal Heads-Mast Arm
Mounted & 2 Pedestrian
Signals-Bracket Mounted
Add 2 Accessible Pedestrian
Signals (Special)

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	PLOT SCALE = 20.0000' / 1"	CHECKED -	REVISED -
	PLOT DATE = 2/16/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:				SHEET OF SHEETS				STA. TO STA.			
SIGNAL MODERNIZATION				INTERSECTION OF 11TH ST & STATE ST				F.A.S. SECTION COUNTY TOTAL SHEETS SHEET NO.			
								1807 * Lawrence 6 6			
								CONTRACT NO. 74538			
								ILLINOIS FED. AID PROJECT			