

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

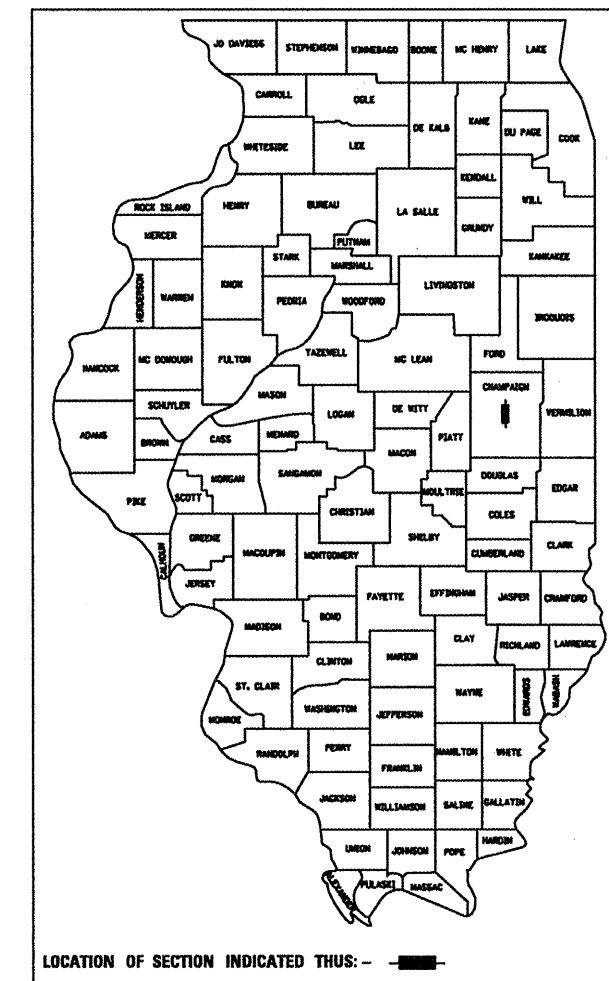
**PROPOSED  
 HIGHWAY PLANS**

FAP ROUTE 804 (U.S. ROUTE 150)  
 SECTION (13X-1, 14)TS  
 TRAFFIC SIGNAL MODERNIZATION  
 CHAMPAIGN COUNTY

C-95-056-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
804	(13X-1, 14)TS	CHAMPAIGN	13	1
		ILLINOIS	CONTRACT NO. 70879	

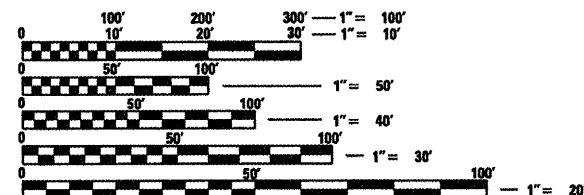
D95-056-10



FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC SIGNAL MODERNIZATION  
 U.S. 150 (PROSPECT AVE.) & UNIVERSITY AVE.  
 U.S. 150 (PROSPECT AVE.) & CHURCH ST.

FIBER OPTIC INSTALLATION  
 U.S. 150 (PROSPECT AVE.)  
 UNIVERSITY AVE. TO CHURCH ST.



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: SCOTT NEIHART  
 PROJECT MANAGER: ROGER BIGGS

CONTRACT NO. 70879

CITY OF CHAMPAIGN

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED 1/31 20 11  
*Paul E. Avers*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 25 20 11  
*Scott E. Stitt, P.E.*  
 ACTING ENGINEER OF DESIGN AND ENVIRONMENT

March 25 20 11  
*Christine M. Reed*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.07

EXISTING STATE-OWNED AND MAINTAINED UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL NOTIFY THE DISTRICT OPERATIONS ENGINEER TWO WEEKS PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THESE LINES. THE STATE WILL THEN LOCATE AND MARK THE HORIZONTAL LOCATIONS OF THE LINES AND PROVIDE ANY AVAILABLE INFORMATION AS TO THEIR DEPTH. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.) THE APPROXIMATE LOCATIONS OF THESE LINES ARE ALSO SHOWN ON THE PLANS ALONG WITH THE NAME OF THE MAINTAINING AGENCY. THE CONTRACTOR SHALL COORDINATE THE LOCATING OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE.

G.N.-107.31

UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

STANDARDS IN THE PLANS

STANDARD	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701701-07	URBAN CLOSURE MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE, CROSSWALK OR SW
701901-01	TRAFFIC CONTROL DEVICES
720016-02	MAST ARM MOUNTED STREET NAME SIGNS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCE
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
876001-01	PEDESTRIAN PUSH BUTTON POST
877001-04	STEEL MAST ARM ASSEMBLY AND POLE
877011-04	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
878001-08	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS - POST AND BRACKET MOUNT
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, STANDARDS IN THE PLANS, INDEX
- 3 - 5 SUMMARY OF QUANTITIES
- 6 - 11 TRAFFIC SIGNAL PLAN SHEETS
- 12 TRAFFIC SIGNAL DETAILS
- 13 FIBER OPTIC INTERCONNECT PLAN SHEETS

GENERAL NOTES

1. THE FINAL LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD.
2. COMBINATION MAST ARM ASSEMBLIES SHALL BE FURNISHED WITH 15' LUMINAIRE TRUSS ARMS WITH A MOUNTED LUMINAIRE HEIGHT OF 35 FT.
3. ALL TRAFFIC SIGNAL MAST ARMS MUST BE DESIGNED FOR THE LOADINGS SHOWN ON THE HIGHWAY STANDARDS OR THESE SIGNAL PLANS, WHICHEVER IS GREATER.
4. TIMINGS SHOWN ARE FOR INITIAL OPERATION AND MAY BE ADJUSTED TO REFLECT SITE CONDITIONS PER APPROVAL OF THE TRAFFIC OPERATIONS ENGINEER.
5. SIGNAL FACES FOR THE NORTH APPROACH ARE NOTED AS "A", "B" FOR THE SOUTH APPROACH, "C" FOR THE WEST APPROACH, AND "D" FOR THE EAST APPROACH.
6. ITEMS REMOVED WILL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK TO OBTAIN UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION

FILE NAME =	USER NAME = biggs-d	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\pwidot\biggs-d\8212155\7087	Prospect Ave topo - signals.dgn	DRAWN -	REVISED -				804	(13X-1, 14)TS	CHAMPAIGN	13	2
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 70879								
PLOT DATE = 1/31/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

# SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	LOCATION OF WORK:						
			URBAN	FAP 804 U.S. 150 & University Ave.	FAP 804 U.S. 150 & Church St.	INTERCONNECT U.S. 150 & University Ave.	INTERCONNECT U.S. 150 & Church St.	FAP 804 U.S. 150 & University Ave.	FAP 804 U.S. 150 & Church St.
CONSTRUCTION TYPE CODE:			URBAN	100% State 0021	100% State 0021	100% State 0021	100% State 0021	100% City 0021	100% City 0021
			TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	475.0	173.0	302.0				
44000600	SIDEWALK REMOVAL	SQ FT	478.0	171.0	307.0				
67100100	MOBILIZATION	L SUM	1.0	.5	.5				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.0	.5	.5				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1.0	.5	.5				
81012300	CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	88.0	48.0	40.0				
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	118.0	44.0	74.0				
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	84.0	20.0	64.0				
81012800	CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	73.0	39.0	34.0				
81013000	CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	17.0	17.0					
81013100	CONDUIT IN TRENCH, 5" DIA., PVC	FOOT	8.0		8.0				
81021330	CONDUIT PUSHED, 2" DIA., PVC	FOOT	771.0	74.0	53.0	386.0	258.0		
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	23.0	23.0					
81021350	CONDUIT PUSHED, 3" DIA., PVC	FOOT	297.0	117.0	180.0				
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	57.0	57.0					
81400100	HANDHOLE	EACH	10.0	5.0	4.0	1.0			
81400300	DOUBLE HANDHOLE	EACH	2.0	1.0	1.0				
81702100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	778.0			493.0	285.0		
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	995.0					497.0	498.0
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	388.0	168.0	220.0				
82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	4.0					2.0	2.0
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2.0	1.0	1.0				
86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	2.0	1.0	1.0				
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2.0			1.0	1.0		

FILE NAME =	USER NAME = biggard	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:		SHEET NO. OF SHEETS	STA. TO STA.	F.A.P. RTE. 804	SECTION (13X-1, 14)TS	COUNTY CHAMPAIGN	TOTAL SHEETS 13	SHEET NO. 3
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	PLOT DATE = 1/31/2011	DATE -	REVISED -										
ILLINOIS FED. AID PROJECT												CONTRACT NO. 70879	

**SUMMARY OF QUANTITIES (cont.)**

CODE NO	ITEM	UNIT	TOTAL QUANTITY	LOCATION OF WORK:					
				URBAN	FAP 804 U.S. 150 & University Ave.	FAP 804 U.S. 150 & Church St.	INTERCONNECT U.S. 150 & University Ave.	INTERCONNECT U.S. 150 & Church St.	FAP 804 U.S. 150 & University Ave.
CONSTRUCTION TYPE CODE:			URBAN	100% State 0021	100% State 0021	100% State 0021	100% State 0021	100% City 0021	100% City 0021
				QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	496.0					193.0	303.0
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,985.0	856.0	510.0			303.0	316.0
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,216.0	1,092.0	1,124.0				
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,487.0	549.0	938.0				
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	1,035.0	422.0	613.0				
<b>87301805</b>	<b>ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C</b>	<b>Foot</b>	<b>159.0</b>	<b>77.0</b>	<b>82.0</b>				
87502640	TRAFFIC SIGNAL POST, ALUMINUM 10 FT.	EACH	2.0	1.0	1.0				
87502680	TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	4.0	2.0	2.0				
87502700	TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	2.0	1.0	1.0				
87600200	PEDESTRIAN PUSH-BUTTON POST, TYPE II	EACH	4.0	2.0	2.0				
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1.0	1.0					
87700180	STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1.0		1.0				
87702840	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	2.0	1.0	1.0				
87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	2.0	1.0	1.0				
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	24.8	12.4	12.4				
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	7.0	3.5	3.5				
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	40.0	20.0	20.0				
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26.0	13.0	13.0				
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4.0	2.0	2.0				
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	14.0	7.0	7.0				
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	2.0	1.0	1.0				
88040260	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	2.0	1.0	1.0				
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16.0	8.0	8.0				
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	16.0	8.0	8.0				
88500100	INDUCTIVE LOOP DETECTOR	EACH	8.0	4.0	4.0				

FILE NAME =	USER NAME = biggsrd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pov\work\pvidot\biggsrd\d0212155\7087	Prospect Ave topo - signals.dgn	DRAWN -	REVISED -		804	(13X-1, 14)TS	CHAMPAIGN	13	4				CONTRACT NO. 70879			
	PLOT SCALE = 20.0000 "/ IN.	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT											
	PLOT DATE = 1/31/2011	DATE -	REVISED -													

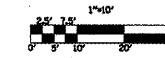
**SUMMARY OF QUANTITIES (cont.)**

CODE NO	ITEM	UNIT	TOTAL QUANTITY	LOCATION OF WORK:					
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CONSTRUCTION TYPE CODE:			URBAN	100% State 0021	100% State 0021	100% State 0021	100% State 0021	100% City 0021	100% City 0021
QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
88600100	DETECTOR LOOP, TYPE I	FOOT	541.0		279.0	262.0			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2.0		1.0	1.0			
89502380	REMOVE EXISTING HANDHOLE	EACH	8.0		4.0	4.0			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	14.0		7.0	7.0			
85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	8.0		4.0	4.0			
85100800	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	2.0		1.0	1.0			
85100900	PAINT NEW COMBINATION MAST ARM AND POLE, OVER 40 FOOT	EACH	2.0		1.0	1.0			
85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	2.0		1.0	1.0			
X0326225	PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	4.0		2.0	2.0			
X8050115	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	2.0		1.0	1.0			
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	824.0				532.0	292.0	
X8800101	PEDESTRIAN PUSH-BUTTON, SPECIAL	EACH	16.0		8.0	8.0			
XX005937	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	6.0					3.0	3.0
XX008154	RELOCATE EXISTING RADIO INTERCONNECT SYSTEM	EACH	1.0			1.0			
Z0007430	TEMPRORY SIDEWALK	SQ FT	475.0		173.0	302.0			
87301900	ELECTRIC CABLE IN CONDUIT, <sup>EQUIPMENT</sup> GROUNDING CONDUCTOR, NO. 6 IC	FOOT	917.0		446.0	471.0			

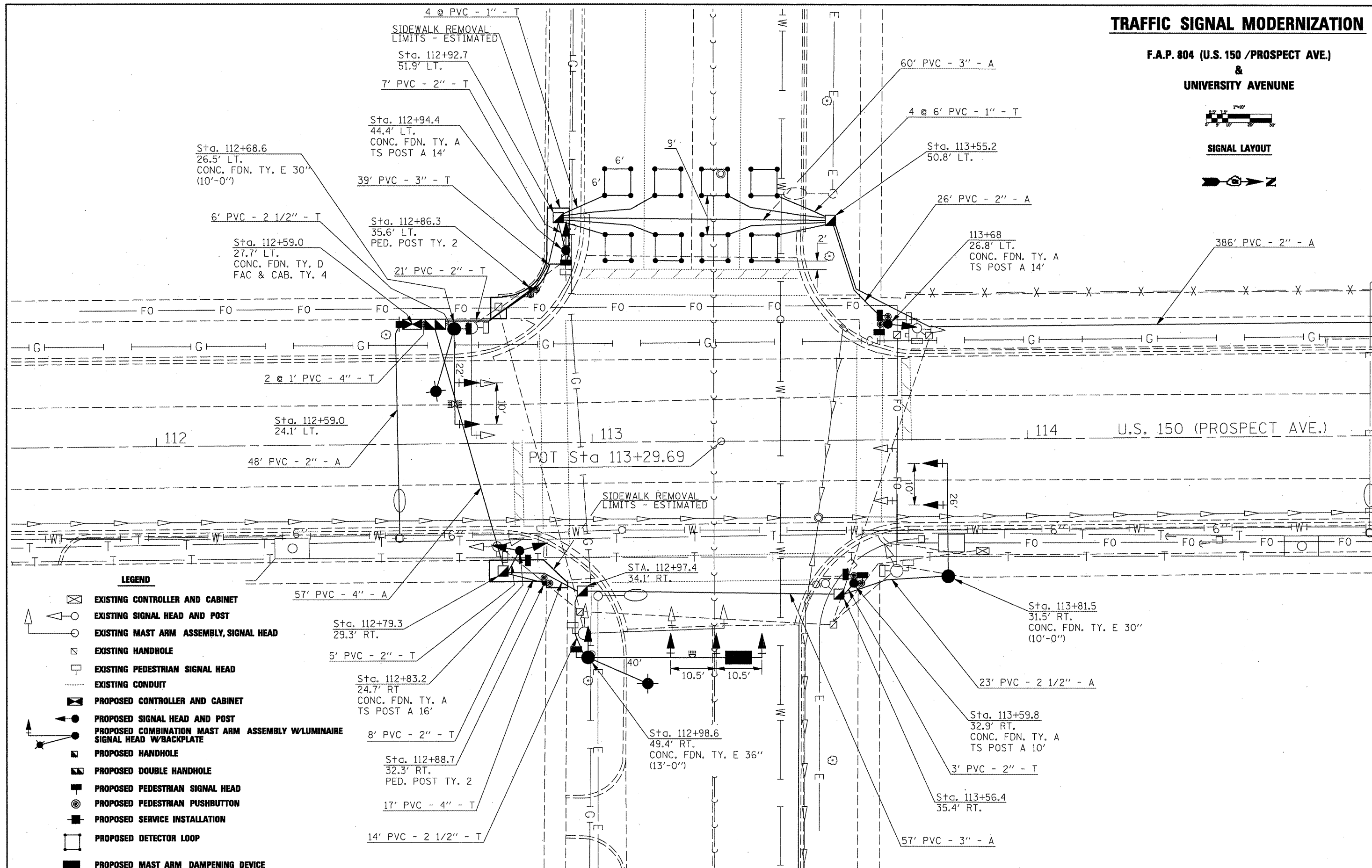
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Prospect Ave topo - signals.dgn	DRAWN -	REVISED -	SCALE:		SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 70879		
PLOT SCALE : 20.0000 / IN.	CHECKED -	REVISED -	ILLINOIS FED. AID PROJECT						
PLOT DATE : 1/31/2011	DATE -	REVISED -							

# TRAFFIC SIGNAL MODERNIZATION

F.A.P. 804 (U.S. 150 / PROSPECT AVE.)  
&  
UNIVERSITY AVENUE



SIGNAL LAYOUT



### LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING SIGNAL HEAD AND POST
- EXISTING MAST ARM ASSEMBLY, SIGNAL HEAD
- EXISTING HANDHOLE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING CONDUIT
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SIGNAL HEAD AND POST
- PROPOSED COMBINATION MAST ARM ASSEMBLY W/LUMINAIRE SIGNAL HEAD W/BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED PEDESTRIAN PUSHBUTTON
- PROPOSED SERVICE INSTALLATION
- PROPOSED DETECTOR LOOP
- PROPOSED MAST ARM DAMPENING DEVICE

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Prospect Ave topo - signals.dgn  
PLOT SCALE = 28.0000' / IN.  
PLOT DATE = 2/18/2011

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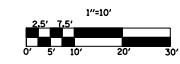
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 10' SHEET NO. OF SHEETS STA. TO STA.

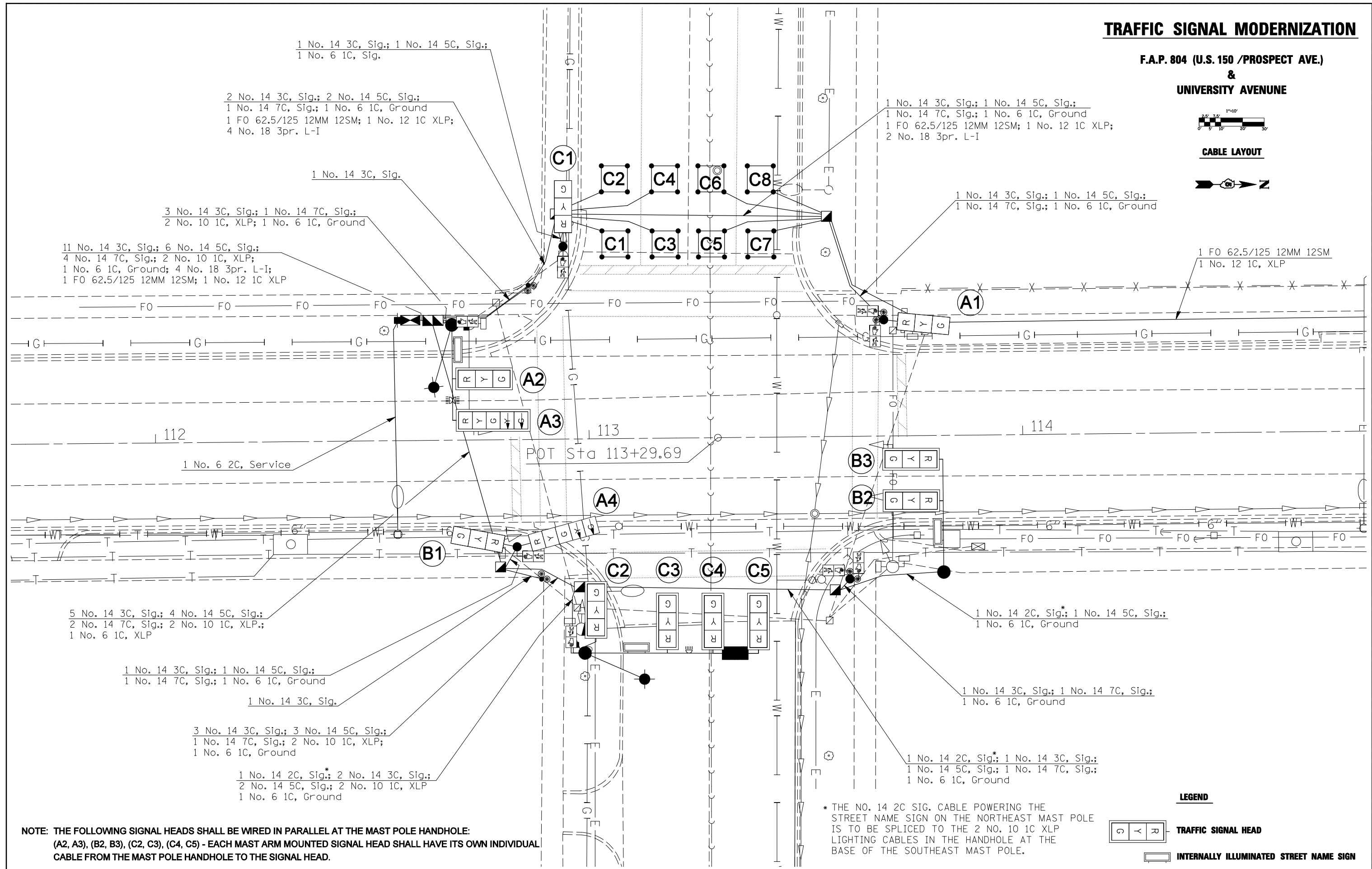
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
804	(13X-1, 14)TS	CHAMPAIGN	13	6
CONTRACT NO. 70879				
ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL MODERNIZATION

F.A.P. 804 (U.S. 150 /PROSPECT AVE.)  
&  
UNIVERSITY AVENUE



CABLE LAYOUT



1 No. 14 3C, Sig.; 1 No. 14 5C, Sig.;  
1 No. 6 1C, Sig.

2 No. 14 3C, Sig.; 2 No. 14 5C, Sig.;  
1 No. 14 7C, Sig.; 1 No. 6 1C, Ground  
1 FO 62.5/125 12MM 12SM; 1 No. 12 1C XLP;  
4 No. 18 3pr. L-I

1 No. 14 3C, Sig.; 1 No. 14 5C, Sig.;  
1 No. 14 7C, Sig.; 1 No. 6 1C, Ground  
1 FO 62.5/125 12MM 12SM; 1 No. 12 1C XLP;  
2 No. 18 3pr. L-I

1 No. 14 3C, Sig.  
3 No. 14 3C, Sig.; 1 No. 14 7C, Sig.;  
2 No. 10 1C, XLP; 1 No. 6 1C, Ground

11 No. 14 3C, Sig.; 6 No. 14 5C, Sig.;  
4 No. 14 7C, Sig.; 2 No. 10 1C, XLP;  
1 No. 6 1C, Ground; 4 No. 18 3pr. L-I;  
1 FO 62.5/125 12MM 12SM; 1 No. 12 1C XLP

1 No. 14 3C, Sig.; 1 No. 14 5C, Sig.;  
1 No. 14 7C, Sig.; 1 No. 6 1C, Ground

1 FO 62.5/125 12MM 12SM  
1 No. 12 1C, XLP

1 No. 6 2C, Service

5 No. 14 3C, Sig.; 4 No. 14 5C, Sig.;  
2 No. 14 7C, Sig.; 2 No. 10 1C, XLP;  
1 No. 6 1C, XLP

1 No. 14 3C, Sig.; 1 No. 14 5C, Sig.;  
1 No. 14 7C, Sig.; 1 No. 6 1C, Ground

1 No. 14 3C, Sig.

3 No. 14 3C, Sig.; 3 No. 14 5C, Sig.;  
1 No. 14 7C, Sig.; 2 No. 10 1C, XLP;  
1 No. 6 1C, Ground

1 No. 14 2C, Sig.\*; 2 No. 14 3C, Sig.;  
2 No. 14 5C, Sig.; 2 No. 10 1C, XLP  
1 No. 6 1C, Ground

1 No. 14 2C, Sig.\*; 1 No. 14 5C, Sig.;  
1 No. 6 1C, Ground

1 No. 14 3C, Sig.; 1 No. 14 7C, Sig.;  
1 No. 6 1C, Ground

1 No. 14 2C, Sig.\*; 1 No. 14 3C, Sig.;  
1 No. 14 5C, Sig.; 1 No. 14 7C, Sig.;  
1 No. 6 1C, Ground

**NOTE: THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE:  
(A2, A3), (B2, B3), (C2, C3), (C4, C5) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL  
CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.**

\* THE NO. 14 2C SIG. CABLE POWERING THE STREET NAME SIGN ON THE NORTHEAST MAST POLE IS TO BE SPLICED TO THE 2 NO. 10 1C XLP LIGHTING CABLES IN THE HANDHOLE AT THE BASE OF THE SOUTHEAST MAST POLE.

**LEGEND**



TRAFFIC SIGNAL HEAD



INTERNALLY ILLUMINATED STREET NAME SIGN

FILE NAME =  
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USER NAME = biggsrd  
Prospect Ave topo - signals.dgn  
PLOT SCALE = 20.0000' / IN.  
PLOT DATE = 1/29/2011

DESIGNED - RDB  
DRAWN - RDB  
CHECKED -  
DATE -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 10' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
804	(13X-1, 14)TS	CHAMPAIGN	13	7
CONTRACT NO. 70879			ILLINOIS FED. AID PROJECT	

UNIVERSITY AVE. - SCHEDULES

PC CONCRETE SIDEWALK 5"

SW QUAD	98	SQ FT
SE QUAD	75	SQ FT
TOTAL =	173	SQ FT

SIDEWALK REMOVAL

SW QUAD	90	SQ FT
SE QUAD	81	SQ FT
TOTAL =	171	SQ FT

CONCRETE FOUNDATION, TYPE A

Sta. 112+83.2; 24.7' RT.	3.1	FOOT
Sta. 112+94.4; 44.4' LT.	3.1	FOOT
Sta. 113+68.0; 26.8' LT.	3.1	FOOT
Sta. 113+59.8; 32.9' RT.	3.1	FOOT
TOTAL =	12.4	FOOT

CONCRETE FOUNDATION, TYPE E 30 INCH DIA.

Sta. 112+66.9; 26.5' LT.	10	
Sta. 113+81.5; 31.5' RT.	10	
TOTAL =	20	FOOT

CONCRETE FOUNDATION, TYPE E 36 INCH DIA.

Sta. 112+98.6; 49.4' RT.	13	FOOT
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REMOVE EXISTING HANDHOLE

Sta. 112+78.8; 31.6' LT.	1	EACH
Sta. 112+96.9; 38.9' RT.	1	EACH
Sta. 113+55.0; 42.4' RT.	1	EACH
Sta. 113+77.6; 23.9' RT.	1	EACH
TOTAL =	4	EACH

UNIVERSITY AVE.  
ITEMS TO BE RETURNED TO THE CITY OF CHAMPAIGN

ALL TRAFFIC SIGNAL HEADS  
ALL PEDESTRIAN SIGNAL HEADS  
CONTROLLER CABINET AND CONTROLLER  
ALL RADIO INTERCONNECT EQUIPMENT

REMOVE EXISTING CONCRETE FOUNDATION

Sta. 112+72.5; 26.8' LT.	1	
Sta. 112+78.0; 23.7' RT.	1	
Sta. 112+94.4; 42.3' LT.	1	
Sta. 112+97.8; 43.9' RT.	1	
Sta. 113+69.7; 30.1' RT.	1	
Sta. 113+74.9; 25.8' LT.	1	
Sta. 113+89.5; 25.7' RT.	1	
TOTAL =	7	EACH

HANDHOLE

Sta. 112+92.7; 51.9' LT	1	
Sta. 112+79.3; 29.3' RT	1	
Sta. 112+97.4; 34.1' RT	1	
Sta. 113+56.4; 35.4' RT	1	
Sta. 113+55.2; 50.8' LT	1	
TOTAL =	5	EACH

TRAFFIC SIGNAL POST, ALUMINUM, 10 FT.

Sta. 113+59.8; 32.9' RT.	1	EACH
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TRAFFIC SIGNAL POST, ALUMINUM, 14 FT.

Sta. 112+94.4; 44.4' LT.	1	EACH
Sta. 113+68.0; 26.8' LT.	1	EACH

TOTAL =	2	EACH
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TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.

Sta. 112+83.2; 24.7' RT.	1	EACH
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BILL OF MATERIALS

U.S. 150 (PROSPECT AVE.) & UNIVERSITY AVE.

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	48
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	44
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	20
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	39
CONDUIT IN TRENCH, 4" DIA., PVC	FOOT	17
CONDUIT PUSHED, 2" DIA., PVC	FOOT	74
CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	23
CONDUIT PUSHED, 3" DIA., PVC	FOOT	117
CONDUIT PUSHED, 4" DIA., PVC	FOOT	55
HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	497
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	168
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	193
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1159
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1092
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	549
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	422
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	77
TRAFFIC SIGNAL POST, ALUMINUM 10 FT.	EACH	1
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, TYPE II	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12.4
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	279
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, OVER 40 FT	EACH	1
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	2
SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
PEDESTRIAN PUSH-BUTTON, SPECIAL	EACH	8
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	446

FILE NAME =	USER NAME = biggard	DESIGNED -	REVISED -
Prospect Ave topo - signal.dgn		DRAWN -	REVISED -
PLOT SCALE = 28.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 2/15/2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

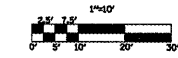
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
804	(13X-1, 14)TS	CHAMPAIGN	13	8
CONTRACT NO. 70879			[ILLINOIS] FED. AID PROJECT	
SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.



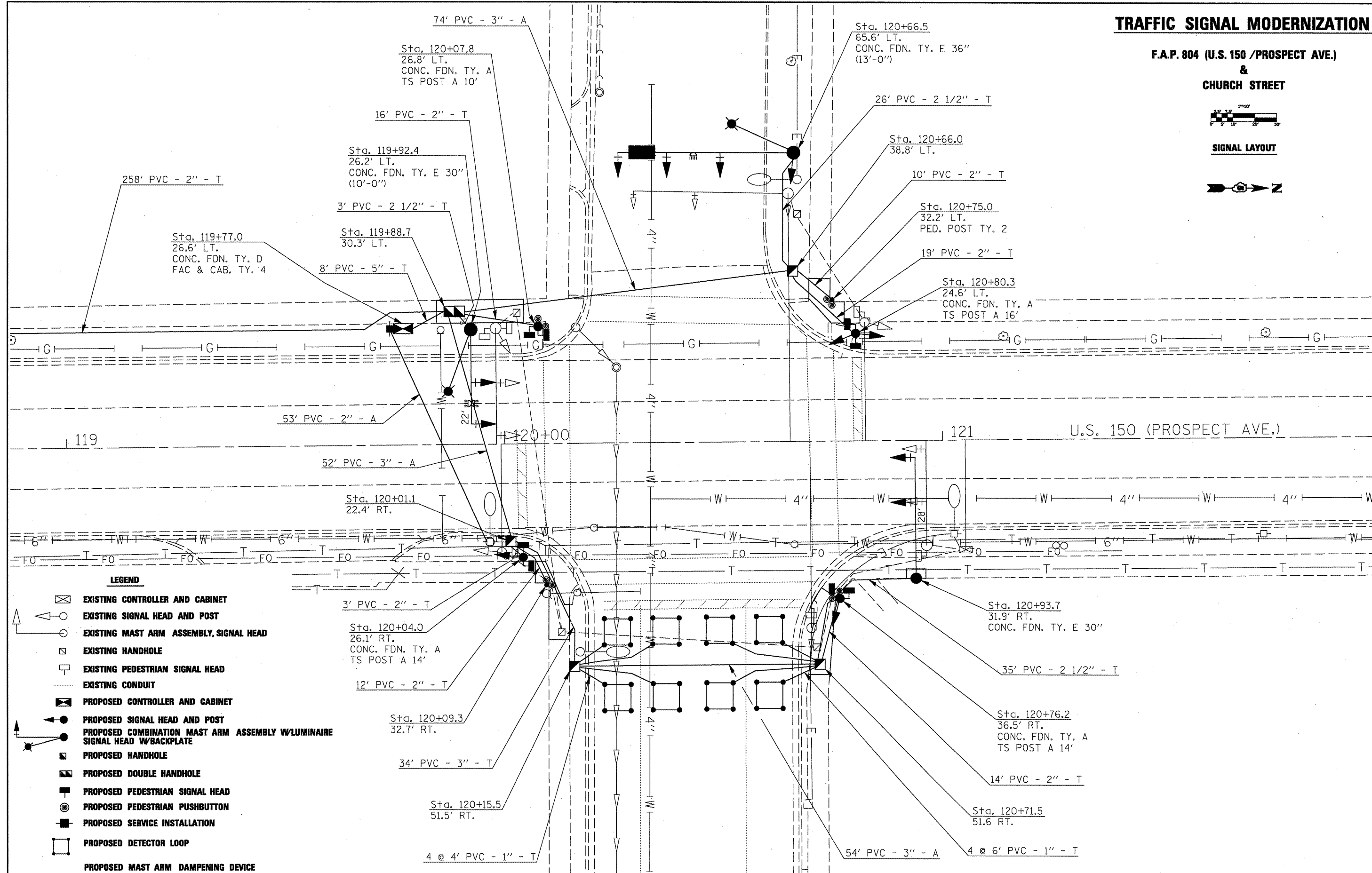
# TRAFFIC SIGNAL MODERNIZATION

F.A.P. 804 (U.S. 150 / PROSPECT AVE.)

&  
CHURCH STREET



SIGNAL LAYOUT



### LEGEND

- EXISTING CONTROLLER AND CABINET
- EXISTING SIGNAL HEAD AND POST
- EXISTING MAST ARM ASSEMBLY, SIGNAL HEAD
- EXISTING HANDHOLE
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING CONDUIT
- PROPOSED CONTROLLER AND CABINET
- PROPOSED SIGNAL HEAD AND POST
- PROPOSED COMBINATION MAST ARM ASSEMBLY W/LUMINAIRE SIGNAL HEAD W/BACKPLATE
- PROPOSED HANDHOLE
- PROPOSED DOUBLE HANDHOLE
- PROPOSED PEDESTRIAN SIGNAL HEAD
- PROPOSED PEDESTRIAN PUSHBUTTON
- PROPOSED SERVICE INSTALLATION
- PROPOSED DETECTOR LOOP
- PROPOSED MAST ARM DAMPENING DEVICE

FILE NAME =  
c:\pwwork\pwwork\biggs\d\212155\7087

USER NAME = biggs-d  
Prospect Ave topo - signals.dgn  
PLOT SCALE = 20.0000' / IN.  
PLOT DATE = 2/15/2011

DESIGNED - RDB	REVISED -
DRAWN - RDB	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

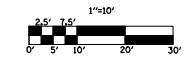
SCALE: 1" = 10'    SHEET NO.    OF    SHEETS    STA.    TO    STA.

F.A.P. RTE. 804	SECTION (13X-1, 14)TS	COUNTY CHAMPAIGN	TOTAL SHEETS 13	SHEET NO. 9
CONTRACT NO. 70879				
ILLINOIS FED. AID PROJECT				

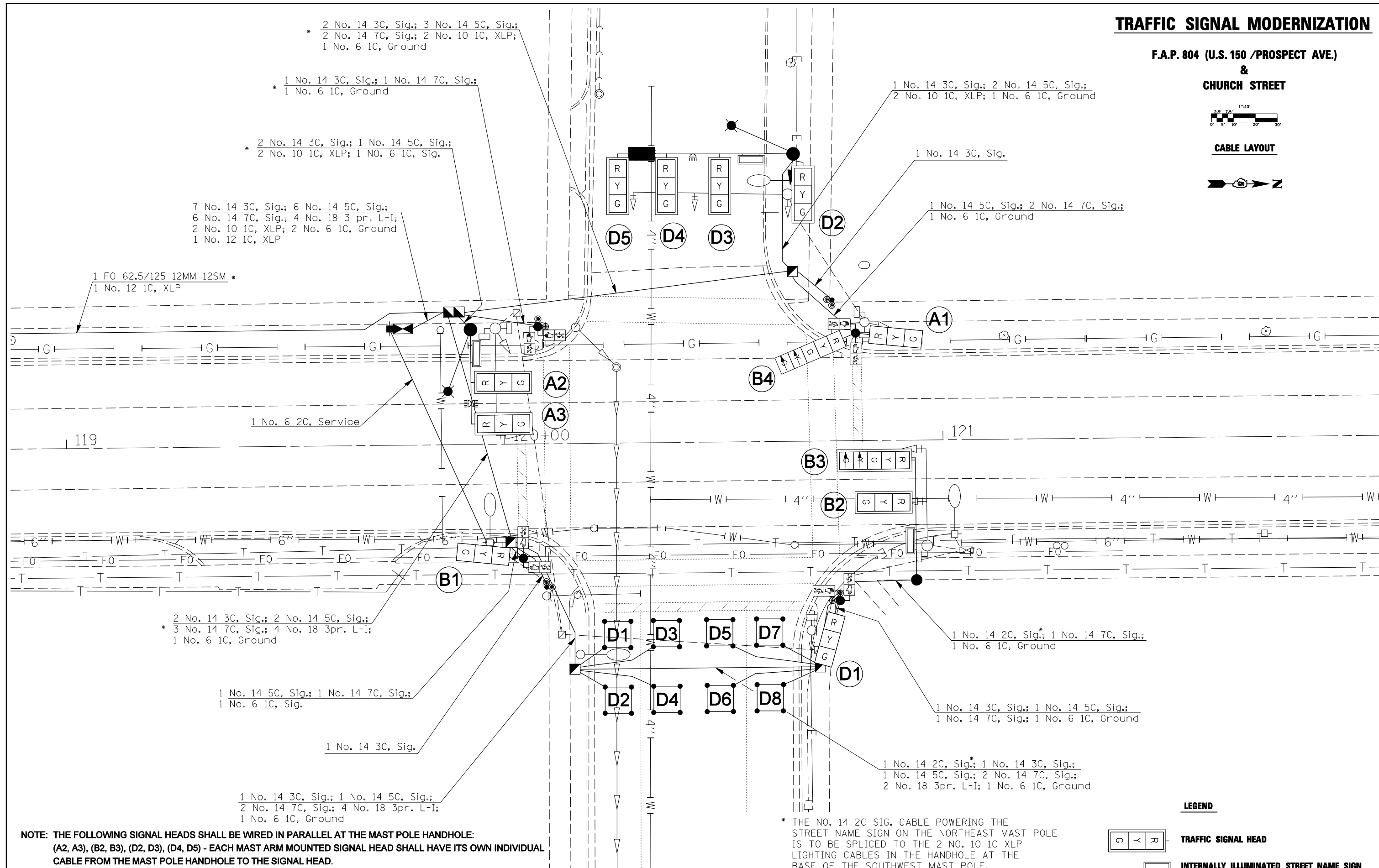
# TRAFFIC SIGNAL MODERNIZATION

F.A.P. 804 (U.S. 150 /PROSPECT AVE.)

&  
CHURCH STREET



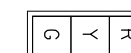
CABLE LAYOUT



**NOTE: THE FOLLOWING SIGNAL HEADS SHALL BE WIRED IN PARALLEL AT THE MAST POLE HANDHOLE:  
(A2, A3), (B2, B3), (D2, D3), (D4, D5) - EACH MAST ARM MOUNTED SIGNAL HEAD SHALL HAVE ITS OWN INDIVIDUAL  
CABLE FROM THE MAST POLE HANDHOLE TO THE SIGNAL HEAD.**

\* THE NO. 14 2C SIG. CABLE POWERING THE STREET NAME SIGN ON THE NORTHEAST MAST POLE IS TO BE SPLICED TO THE 2 NO. 10 1C XLP LIGHTING CABLES IN THE HANDHOLE AT THE BASE OF THE SOUTHWEST MAST POLE.

**LEGEND**



TRAFFIC SIGNAL HEAD



INTERNALLY ILLUMINATED STREET NAME SIGN

FILE NAME =	USER NAME = biggsrd	DESIGNED - RDB	REVISED -
ct:\pw\work\p\dot\biggsrd\d0212155\7087	Prospect Ave topo - signals.dgn	DRAWN - RDB	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/29/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 10' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
804	(13X-1, 14)TS	CHAMPAIGN	13	10
CONTRACT NO. 70879			ILLINOIS FED. AID PROJECT	

CHURCH ST. - SCHEDULES

PC CONCRETE SIDEWALK 5"

NW QUAD	50	SQ FT
NE QUAD	93	SQ FT
SE QUAD	67	SQ FT
SW QUAD	92	SQ FT
TOTAL =	302.0	SQ FT

SIDEWALK REMOVAL

NW quad	50	SQ FT
NE quad	93	SQ FT
SE quad	67	SQ FT
SW quad	92	SQ FT
TOTAL =	307.0	SQ FT

CONCRETE FOUNDATION, TYPE A

Sta. 120+04.0; 26.1' RT.	3.1	FOOT
Sta. 120+07.8; 26.8' LT.	3.1	FOOT
Sta. 120+80.3; 24.6' LT.	3.1	FOOT
Sta. 120+76.2; 36.5' RT.	3.1	FOOT
TOTAL =	12.4	FOOT

CONCRETE FOUNDATION, TYPE E 30 INCH DIA.

119+92.4; 26.2' LT.	10	
120+93.7; 31.9' RT.	10	
TOTAL =	20	FOOT

CONCRETE FOUNDATION, TYPE E 36 INCH DIA.

120+66.5; 65.6' LT.	13	FOOT
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CHURCH ST.  
ITEMS TO BE RETURNED TO THE CITY OF CHAMPAIGN

ALL TRAFFIC SIGNAL HEADS  
ALL PEDESTRIAN SIGNAL HEADS  
CONTROLLER CABINET AND CONTROLLER

REMOVE EXISTING HANDHOLE

120+03.0; 29.9' LT.	1	EACH
120+12.6; 43.6' RT.	1	EACH
120+67.2; 51.7' LT.	1	EACH
120+70.9; 47.7' RT.	1	EACH
TOTAL =	4	EACH

REMOVE EXISTING CONCRETE FOUNDATION

119+98.1; 26.5' LT.	1	
119+99.1; 24.8' RT.	1	
120+65.1; 56.4' LT.	1	
120+69.6; 43.2' RT.	1	
120+82.4; 27.0' LT.	1	
120+96.2; 24.1' RT.	1	
121+05.1; 25.3' RT.	1	
TOTAL =	7	EACH

HANDHOLE

120+01.1; 22.4' RT	1	
120+66.0; 38.8' LT	1	
120+15.5; 51.5' RT.	1	
120+71.5; 51.6' RT	1	
TOTAL =	4	EACH

TRAFFIC SIGNAL POST, ALUMINUM, 10 FT.

Sta. 120+07.8; 26.8' LT.	1	EACH
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TRAFFIC SIGNAL POST, ALUMINUM, 14 FT.

Sta. 120+04.0; 26.1' RT.	1	EACH
Sta. 120+76.2; 36.5' RT.	1	EACH
TOTAL =	2	EACH

TRAFFIC SIGNAL POST, ALUMINUM, 16 FT.

Sta. 120+80.3; 24.6' LT.	1	EACH
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BILL OF MATERIALS

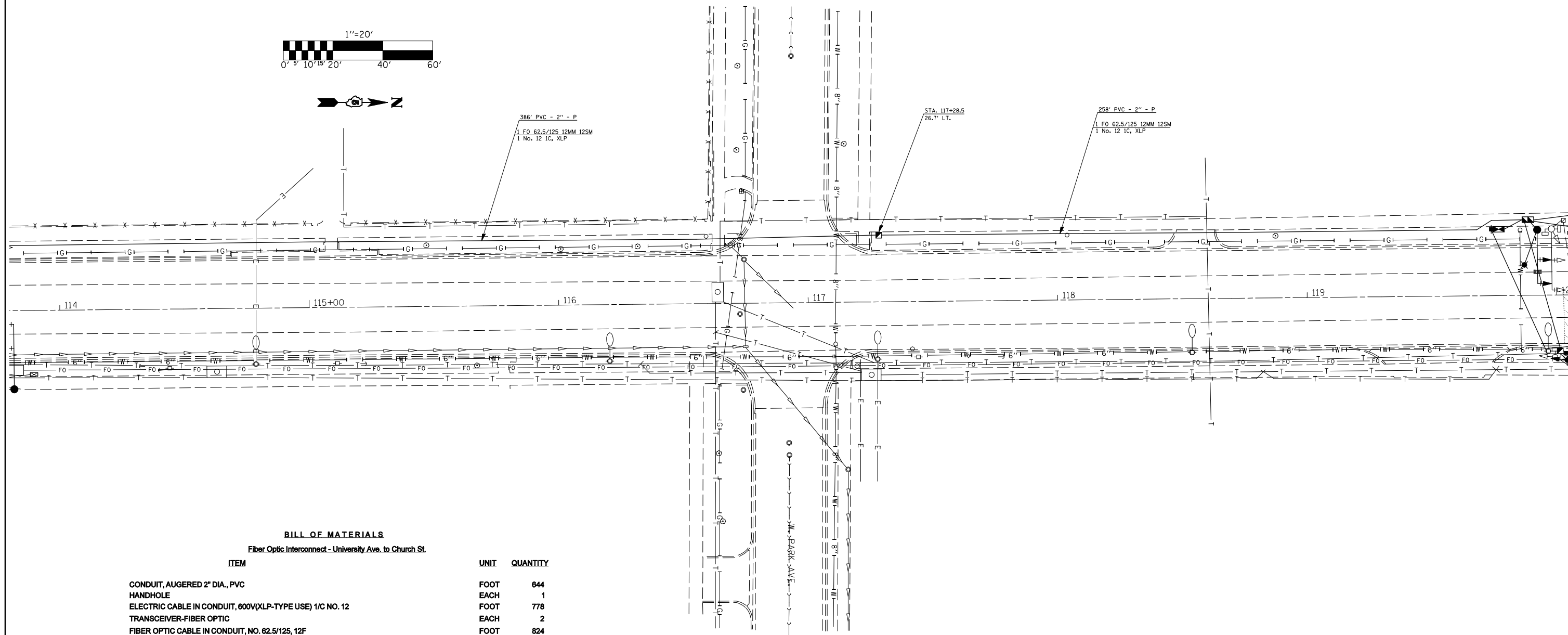
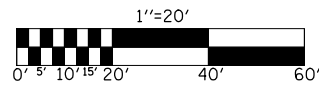
U.S. 150 (PROSPECT AVE.) & CHURCH ST.

ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 1" DIA., PVC	FOOT	40
CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	74
CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	64
CONDUIT IN TRENCH, 3" DIA., PVC	FOOT	34
CONDUIT IN TRENCH, 5" DIA., PVC	FOOT	8
CONDUIT PUSHED, 2" DIA., PVC	FOOT	53
CONDUIT PUSHED, 3" DIA., PVC	FOOT	180
HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	498
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	220
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	303
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	826
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1124
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	938
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 3 PAIR	FOOT	613
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 8 2C	FOOT	82
TRAFFIC SIGNAL POST, ALUMINUM 10 FT.	EACH	1
TRAFFIC SIGNAL POST, ALUMINUM 14 FT.	EACH	2
TRAFFIC SIGNAL POST, ALUMINUM 16 FT.	EACH	1
PEDESTRIAN PUSH-BUTTON POST, TYPE II	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 22 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12.4
CONCRETE FOUNDATION, TYPE D	FOOT	3.5
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	7
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	4
DETECTOR LOOP, TYPE I	FOOT	262
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	4
REMOVE EXISTING CONCRETE FOUNDATION	EACH	7
PAINT NEW TRAFFIC SIGNAL POST	EACH	4
PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FT	EACH	1
PAINT NEW COMBINATION MAST ARM AND POLE, OVER 40 FT	EACH	1
PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	1
PAINT NEW PEDESTRIAN PUSH-BUTTON POST	EACH	2
SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1
PEDESTRIAN PUSH-BUTTON, SPECIAL	EACH	8
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
RELOCATE EXISTING RADIO INTERCONNECT SYSTEM	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	471

TRAFFIC SIGNAL MODERNIZATION  
FIBER OPTIC INTERCONNECT INSTALLATION

F.A.P. 804 (U.S. 150 / PROSPECT AVE.)  
AT  
UNIVERSITY AVE. TO CHURCH ST.

FIBER OPTIC AND CONDUIT LAYOUT



BILL OF MATERIALS

Fiber Optic Interconnect - University Ave. to Church St.

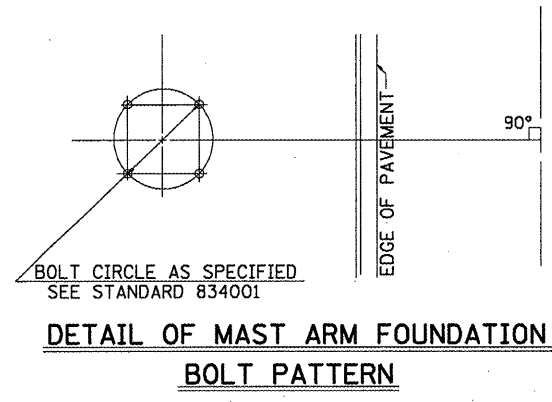
ITEM	UNIT	QUANTITY
CONDUIT, AUGERED 2" DIA., PVC	FOOT	644
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 800V(XLP-TYPE USE) 1/C NO. 12	FOOT	778
TRANSCEIVER-FIBER OPTIC	EACH	2
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F	FOOT	824

FILE NAME =	USER NAME = biggsrd	DESIGNED - RDB	REVISED -
ct:\pw\work\pwidot\biggsrd\d0212155\7087	Prospect Ave topo - signals.dgn	DRAWN - RDB	REVISED -
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	PLOT DATE = 1/29/2011	DATE -	REVISED -

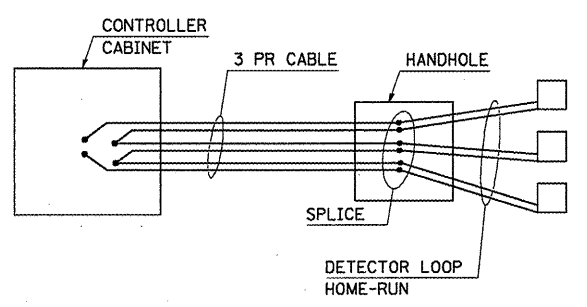
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. OF SHEETS STA. TO STA.

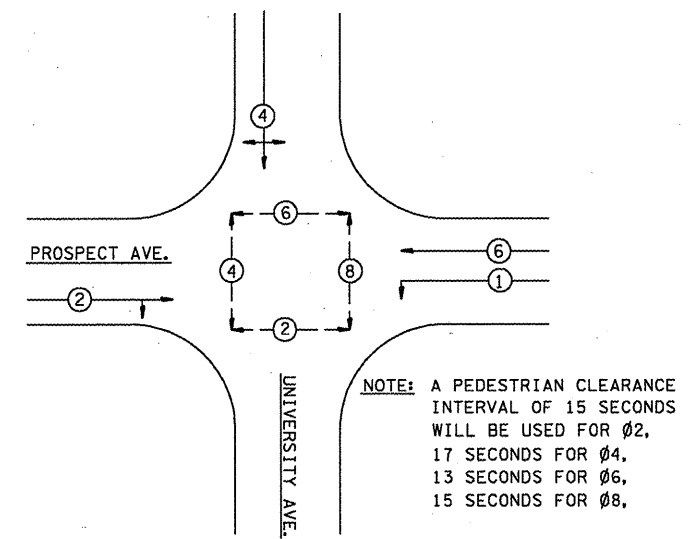
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
804	(13X-1, 14)TS	CHAMPAIGN	13	12
CONTRACT NO. 70879			ILLINOIS FED. AID PROJECT	



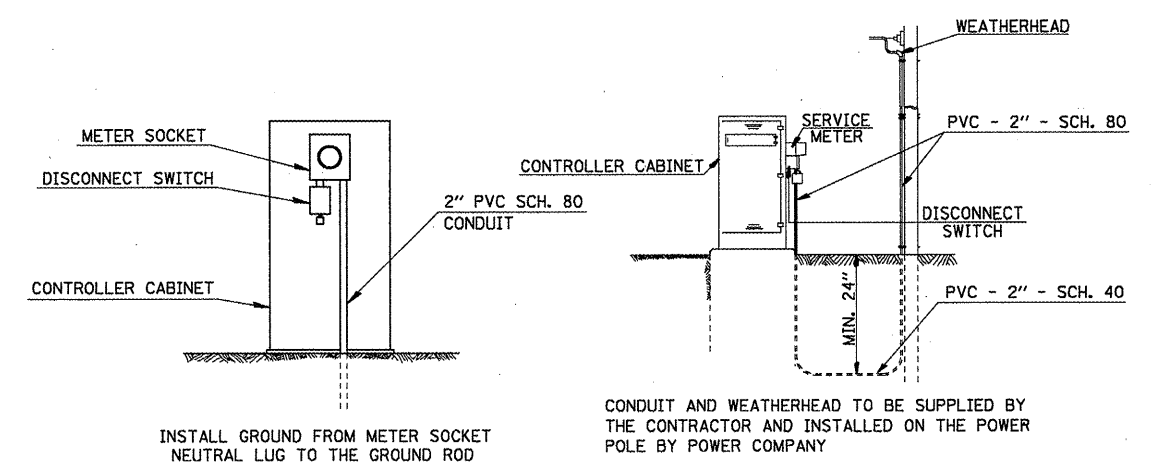
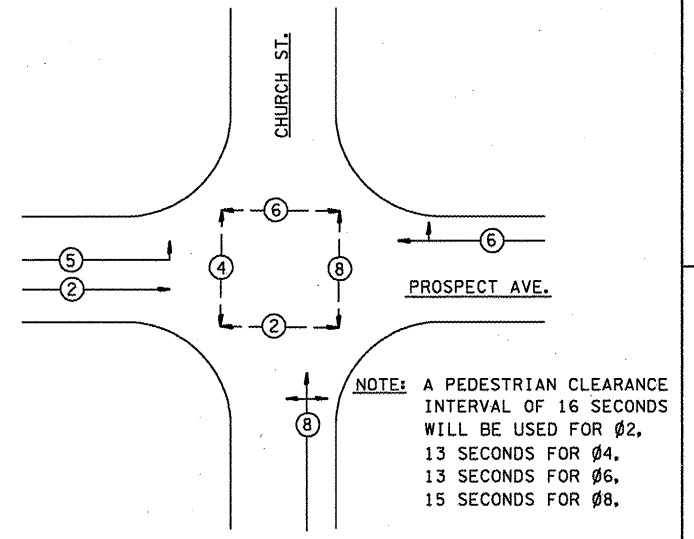
**DETAIL OF DETECTOR LOOP WIRING**  
WIRED IN SERIES WITH MULTI-PAIR CABLE



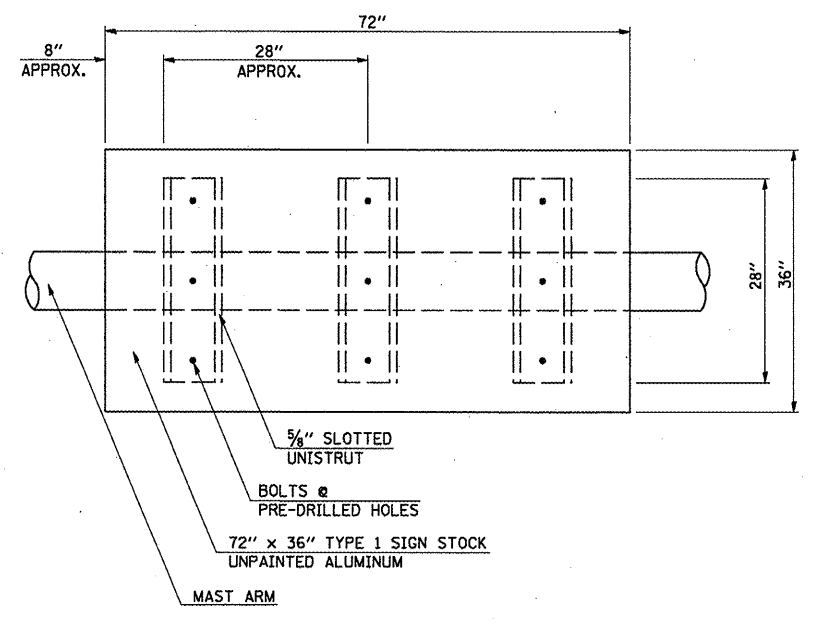
**PHASE DESIGNATION DIAGRAM**



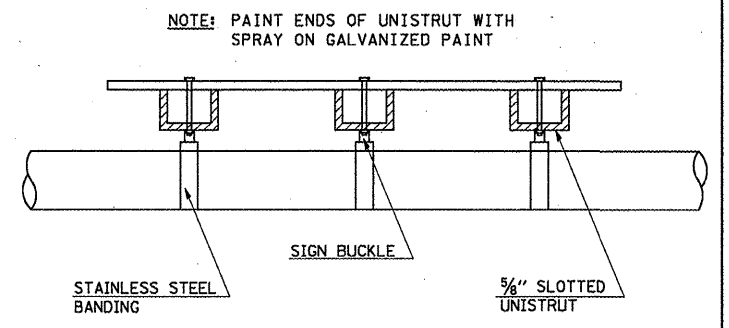
**PHASE DESIGNATION DIAGRAM**



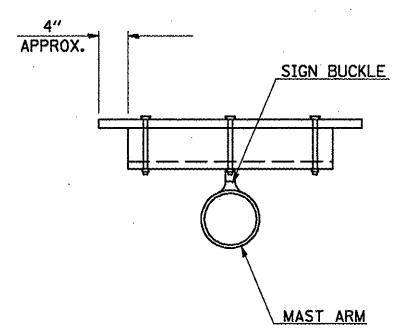
**MAST ARM DAMPENING DEVICE MOUNTING DETAIL**



**PLAN VIEW**



**ELEVATION**



**CROSS SECTION**

**GENERAL NOTES**

1. THE ACTUAL LOCATION OF ALL SIGNAL FOUNDATIONS, HANDHOLES, AND TRAFFIC CONTROLLER WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. POST MOUNTED SIGNALS SHALL BE INSTALLED SO THAT NO PART OF THE SIGNAL HEAD IS WITHIN 2 FT. OF THE FACE OF CURB.
3. ALL MAST ARM POLES SHALL BE A MINIMUM OF 6 FT. FROM THE CENTER OF THE POLE TO THE FACE OF CURB (ON THE MAST ARM SIDE) OR AS SHOWN ON THE PLANS.
4. ALIGN ADJACENT RED INDICATIONS TO SAME HEIGHT ABOVE PAVEMENT.
5. THE BASE FOR A TRAFFIC SIGNAL POST SHALL BE SITUATED SUCH THAT THE HANDHOLE IS LOCATED ON A SIDE AWAY FROM A TRAVELED LANE.
6. PEDESTRIAN PUSHBUTTON SIGNAL SIGNS SHALL BE MOUNTED ABOVE THE APPROPRIATE PEDESTRIAN PUSHBUTTON.
7. THE ANTI-BACKUP FEATURE SHALL BE HARDWIRED ON THE BACKPANEL OF THE CONTROLLER CABINET.
8. THE TRAFFIC SIGNAL INSTRUCTION SIGN APPLICABLE TO PEDESTRIANS SHALL BE NATIONAL MUTCD 10-3. THE SIGN SHALL BE MOUNTED DIRECTLY OVER THE PEDESTRIAN PUSH-BUTTON.

FILE NAME =	USER NAME = biggard	DESIGNED -	REVISED -
c:\pwork\pwork\biggard\d0212155\7087	Prospect Ave topo - signals.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/15/2011	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
804	(13X-1, 14)TS	CHAMPAIGN	13	13
CONTRACT NO. 70879				
[ILLINOIS] FED. AID PROJECT				