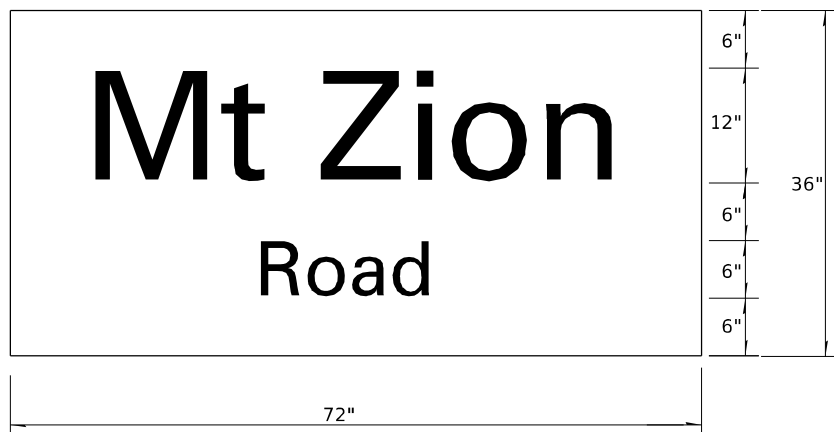
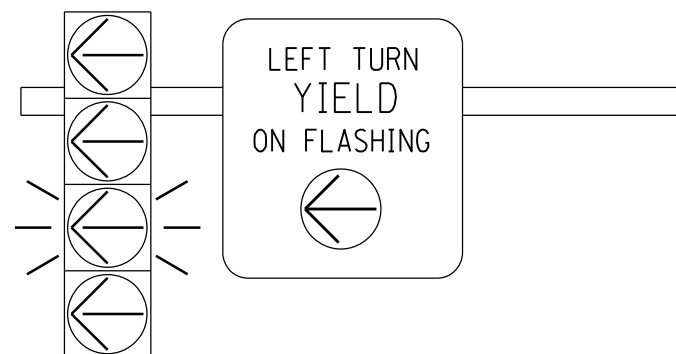




1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. 12" AND 6" UPPER/LOWER CASE LETTERS, T2000 HWY D FONT



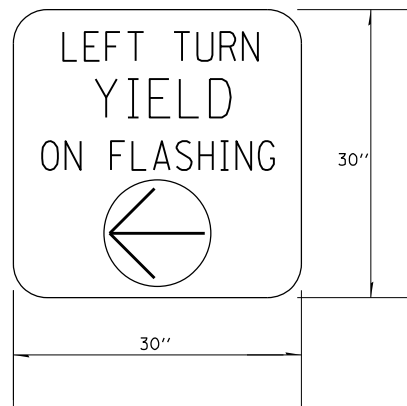
TO BE INSTALLED ON WESTBOUND MAST ARM (STA 471+47.1, 42' LT)



FLASHING YELLOW ARROW SIGN PANEL DETAILS

TO BE INSTALLED ON EXISTING SOUTHBOUND MAST ARM (STA 470+64.6, 41.5' LT)

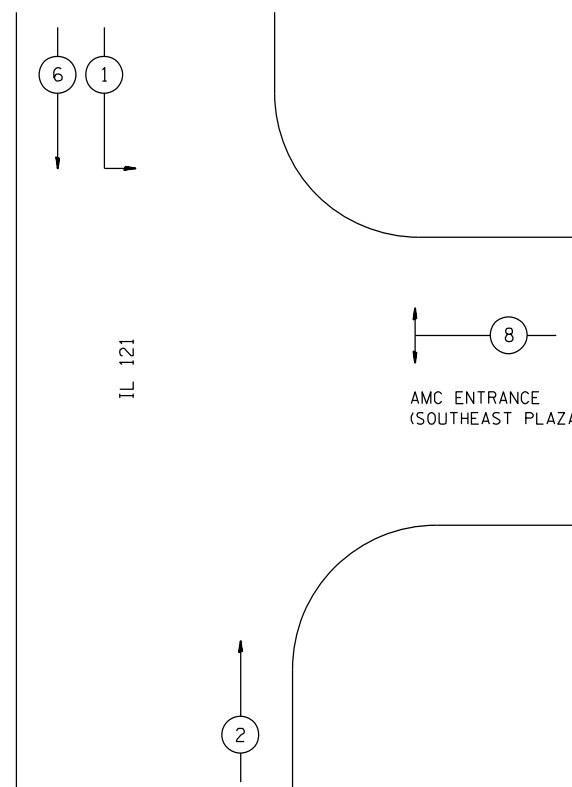
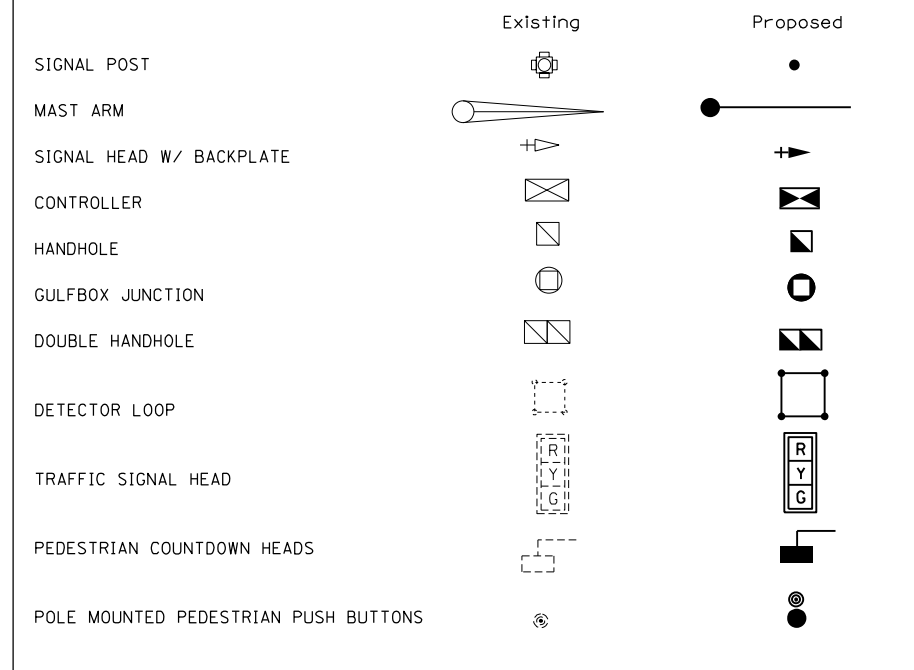
1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-I109a SIGN.



NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN ( FT )				NUMBER OF TURNS	
		6 X 6		6 X 30			6 X 40
		DISTANCE FROM CONTROLLER ( FT )					
			0	491	0	627	2 TURNS
			492	982	628	1255	3 TURNS
0	545	983	1636	1256	2091	4 TURNS	
546	818	1637	2455	2092	3136	5 TURNS	
819	1145	2456	3436			6 TURNS	
1146	1527					7 TURNS	
1528	1964					8 TURNS	
1965	2455					9 TURNS	
2456	3000					10 TURNS	

LEGEND



- VEHICULAR PHASE NO. — (1) —>
- PEDESTRIAN PHASE NO. — (P1) —>
- OVERLAP PHASE NO. — (B) —>

PHASE DESIGNATION DIAGRAM  
AMC ENTRANCE & IL 121  
NO SCALE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF AMC ENTRANCE & IL 121  
DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	102
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

# BILL OF MATERIALS-AMC ENTRANCE & IL 121

CODE	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL-TYPE 1	SQFT	7
72000200	SIGN PANEL-TYPE 2	SQFT	18
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	93
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER CABINET TYPE IV	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	1006
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	471
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	124
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	93
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	1
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
88500100	INDUCTIVE LOOP DETECTOR	EACH	10
88600100	DETECTOR LOOP, TYPE I	FOOT	753
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502215	MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1447
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1

CODE	ITEM	UNIT	QUANTITY
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1

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PLOT SCALE = 20,0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 12/22/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

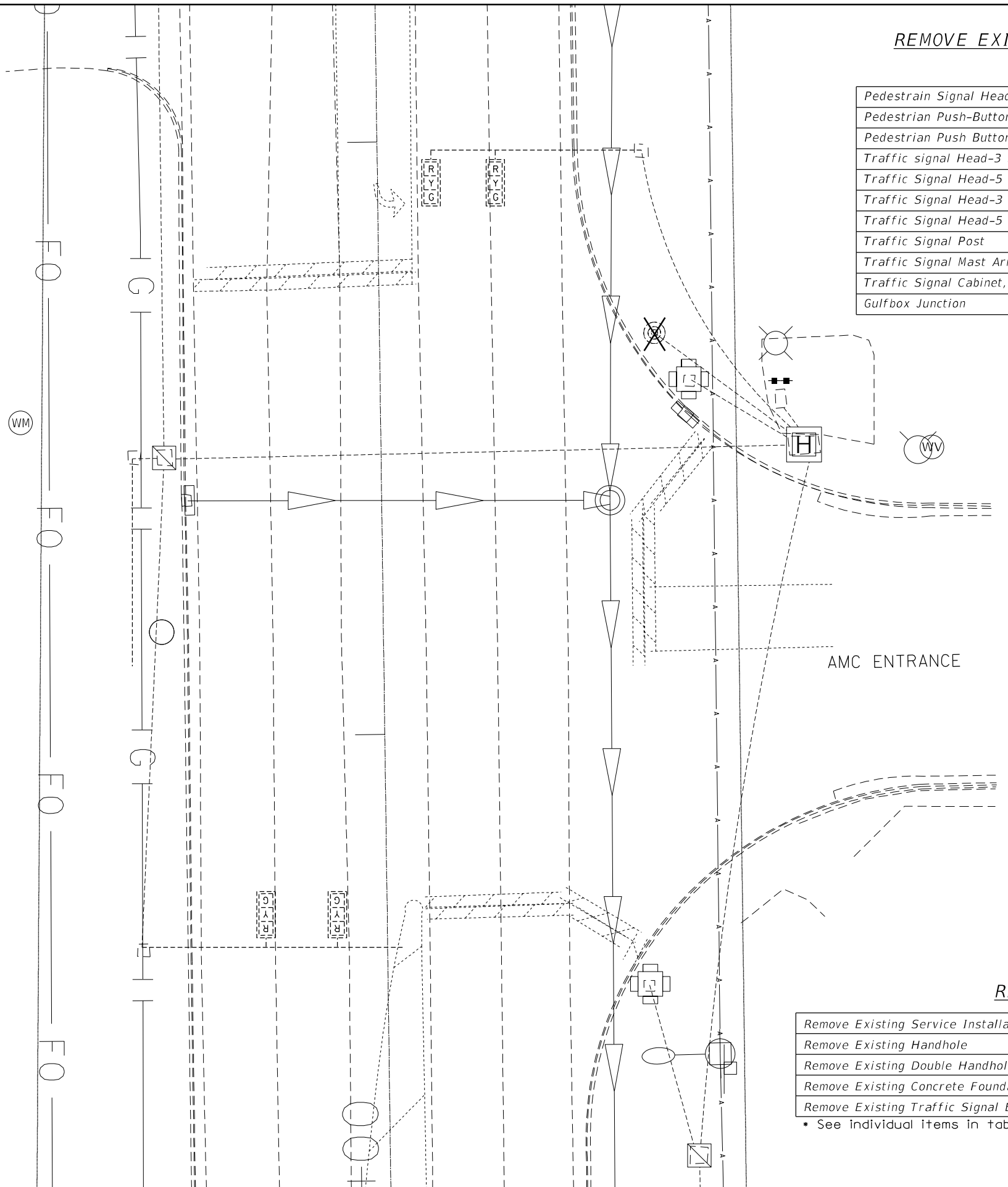
<b>INTERSECTION OF AMC ENTRANCE &amp; IL 121 BILL OF MATERIALS</b>			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	103
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	-	-	-	-	-
Pedestrian Push-Button	2	1	1	-	-
Pedestrian Push Button Post	2	-	1	-	-
Traffic signal Head-3 Section BM	3	1	1	1	-
Traffic Signal Head-5 Section BM	1	-	-	1	-
Traffic Signal Head-3 Section MAM	6	2	2	-	2
Traffic Signal Head-5 Section MAM	1	-	-	-	1
Traffic Signal Post	2	-	1	1	-
Traffic Signal Mast Arm & Post	-	-	-	-	-
Traffic Signal Cabinet, Controller & Components	1	-	1	-	-
Gulfbox Junction	-	-	-	-	-



REMOVAL ITEMS

	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	1	-	-
Remove Existing Handhole	Each -	-	-	-	-
Remove Existing Double Handhole	Each -	-	-	-	-
Remove Existing Concrete Foundation	Each 1	-	1	-	-
Remove Existing Traffic Signal Equipment	Each 1				

\* See individual items in table above.



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PLOT DATE = 12/22/2022	DATE -	REVISED -

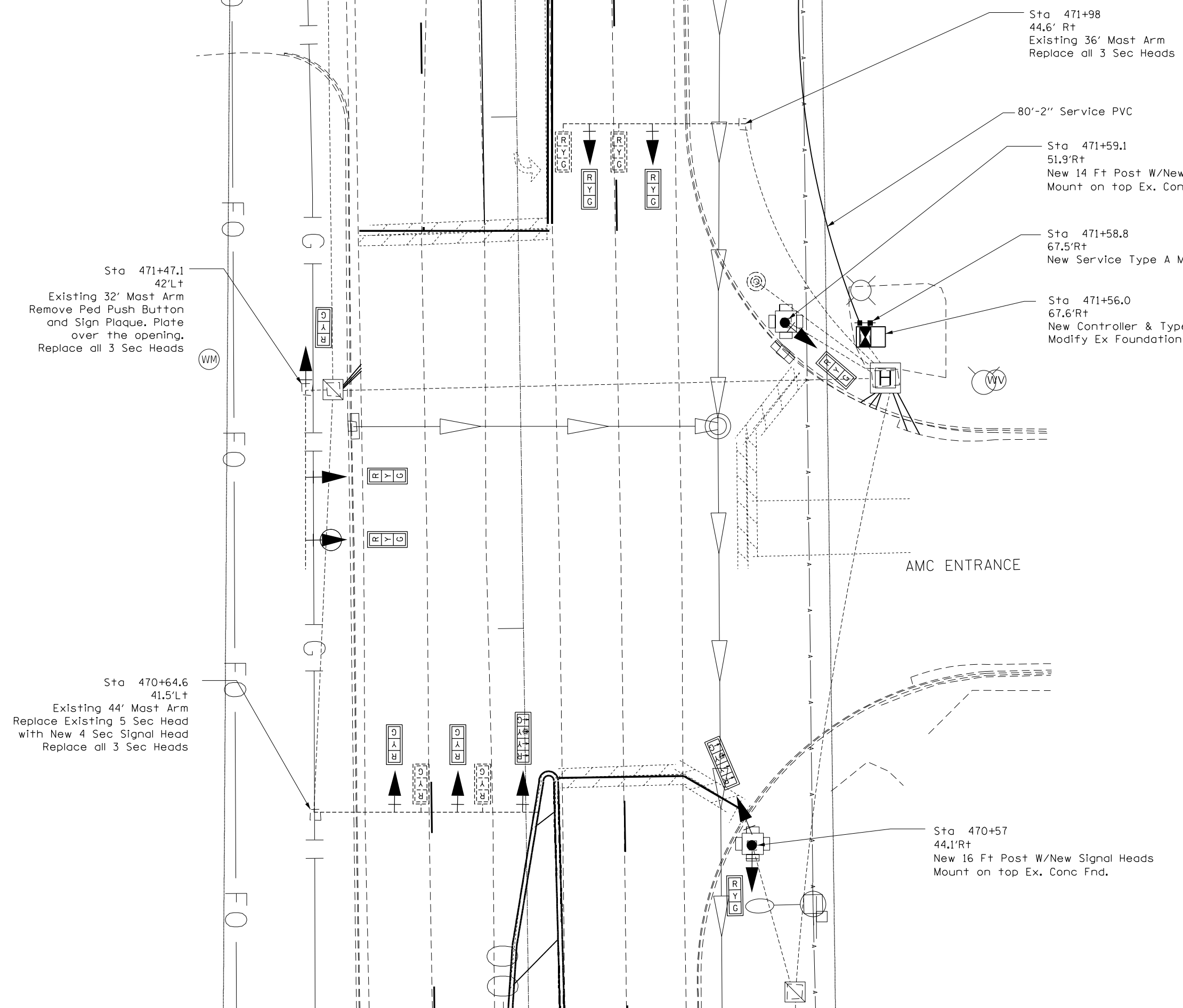
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF AMC ENTRANCE & IL 121  
REMOVAL ITEMS

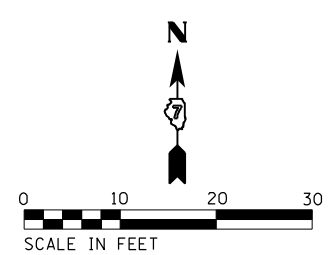
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	104
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				





AMC ENTRANCE



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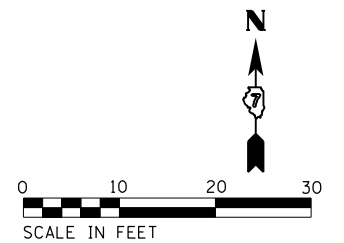
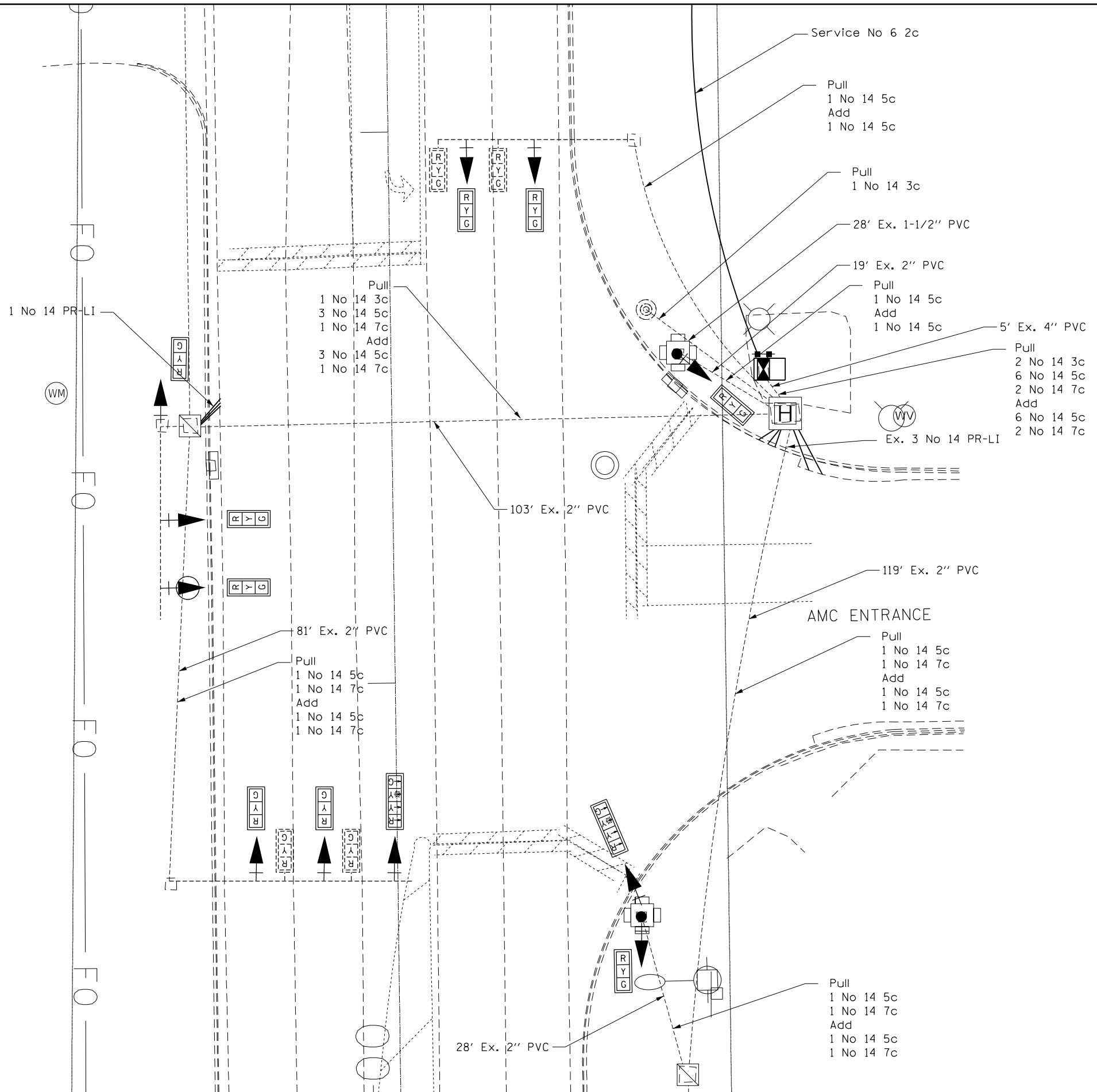
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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF AMC ENTRANCE & IL 121  
SIGNAL LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	105
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



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PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 12/22/2022	DATE -	REVISED -

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

**INTERSECTION OF AMC ENTRANCE & IL 121**  
**CABLE LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	106
CONTRACT NO. 74739			ILLINOIS FED. AID PROJECT	

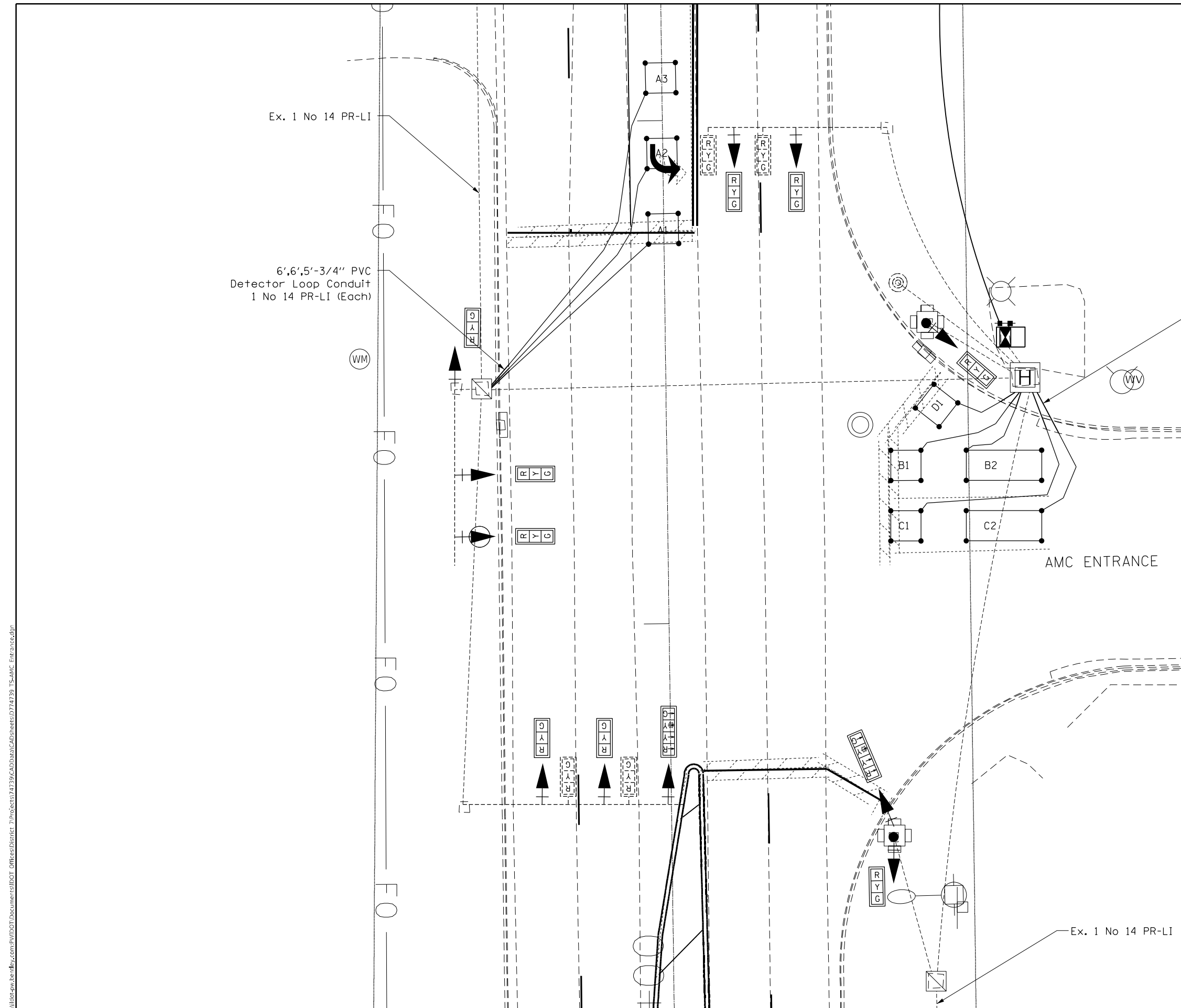
LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3,B1,C1,D1	6' X 6'	NORMAL	NO	0
B2,C2	6' X 15'	NORMAL	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(A1,A2,A3),(B1,B2),(C1,C2),(D1)

4 INDUCTIVE LOOP DETECTORS PLUS 2 ADDITIONAL  
TOTAL 6 INDUCTIVE LOOP DETECTORS

4',4',4',8',9'-3/4" PVC  
Detector Loop Conduit  
1 No 14 PR-LI (Each)

6',6',5'-3/4" PVC  
Detector Loop Conduit  
1 No 14 PR-LI (Each)



USER NAME = Jessica.Hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF AMC ENTRANCE & IL 121  
DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

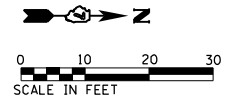
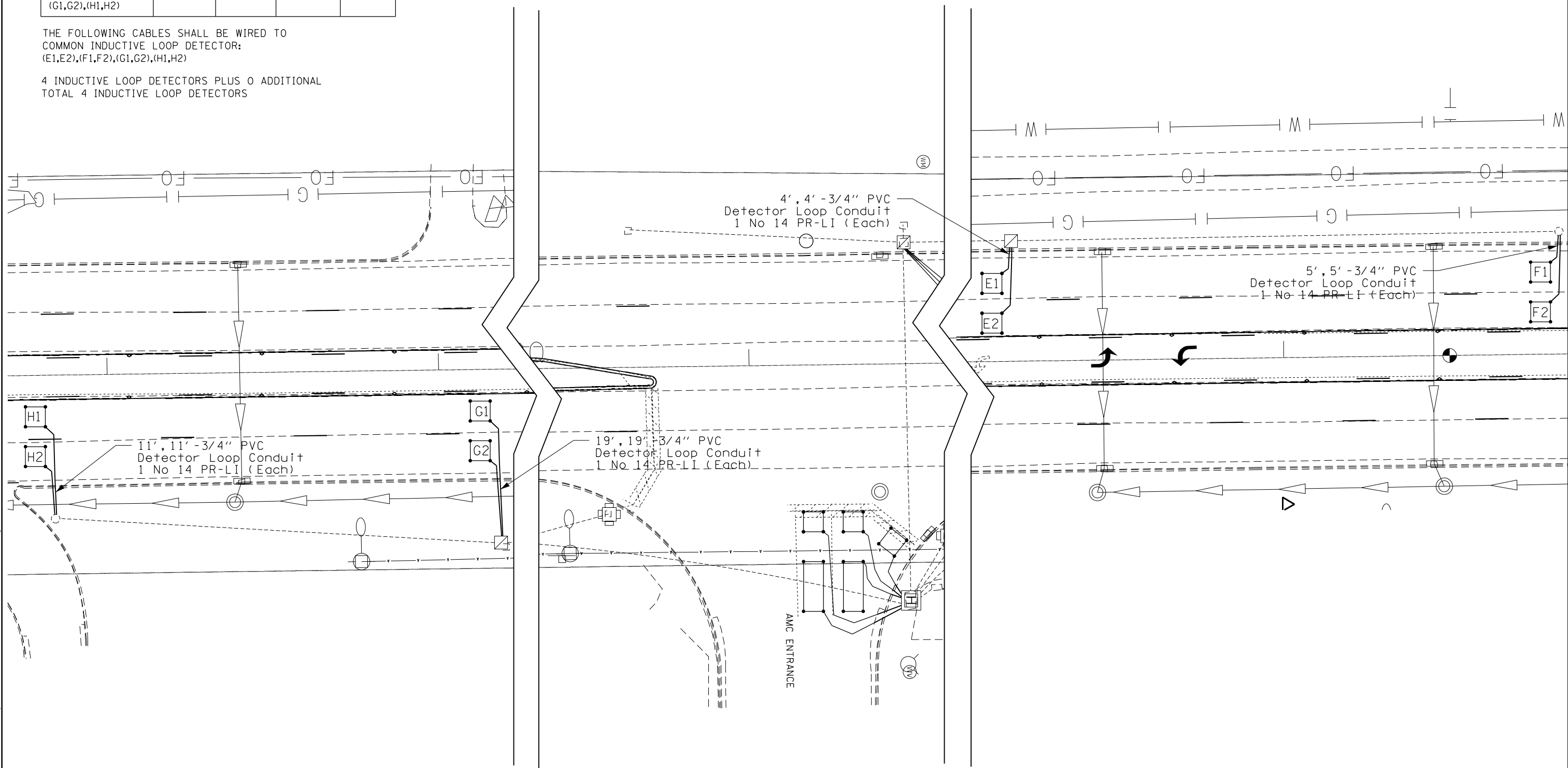
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	107
			CONTRACT NO. 74739	
ILLINOIS FED. AID PROJECT				

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LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
(E1,E2),(F1,F2) (G1,G2),(H1,H2)	6' X 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(E1,E2),(F1,F2),(G1,G2),(H1,H2)

4 INDUCTIVE LOOP DETECTORS PLUS 0 ADDITIONAL  
TOTAL 4 INDUCTIVE LOOP DETECTORS



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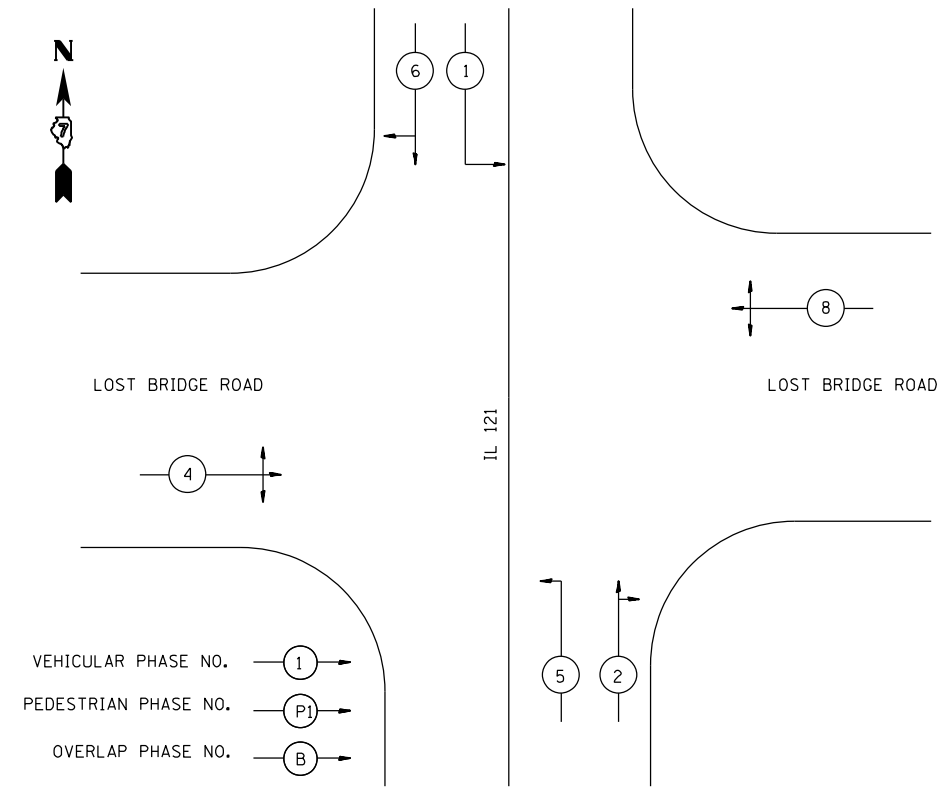
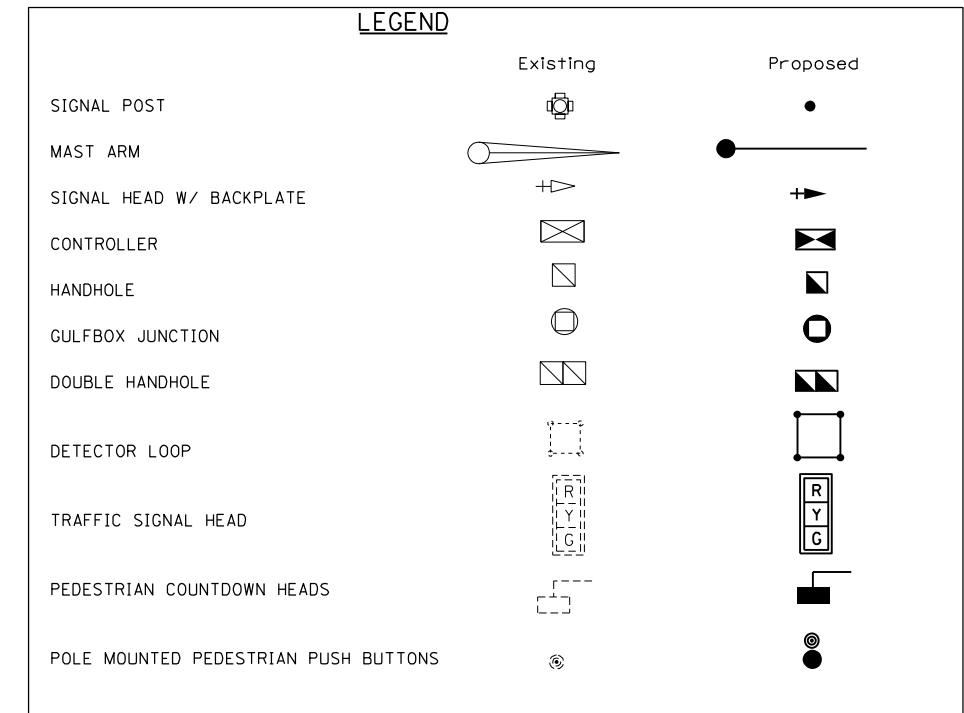
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>INTERSECTION OF AMC ENTRANCE</b>			
<b>ADVANCED DETECTOR LOOPS</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	108
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

### NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN (FT)				NUMBER OF TURNS
		6 X 6		6 X 30		
		DISTANCE FROM CONTROLLER (FT)				
		0	491	0	627	2 TURNS
		492	982	628	1255	3 TURNS
0	545	983	1636	1256	2091	4 TURNS
546	818	1637	2455	2092	3136	5 TURNS
819	1145	2456	3436			6 TURNS
1146	1527					7 TURNS
1528	1964					8 TURNS
1965	2455					9 TURNS
2456	3000					10 TURNS



**PHASE DESIGNATION DIAGRAM**  
Lost Bridge Rd & Il 121  
NO SCALE

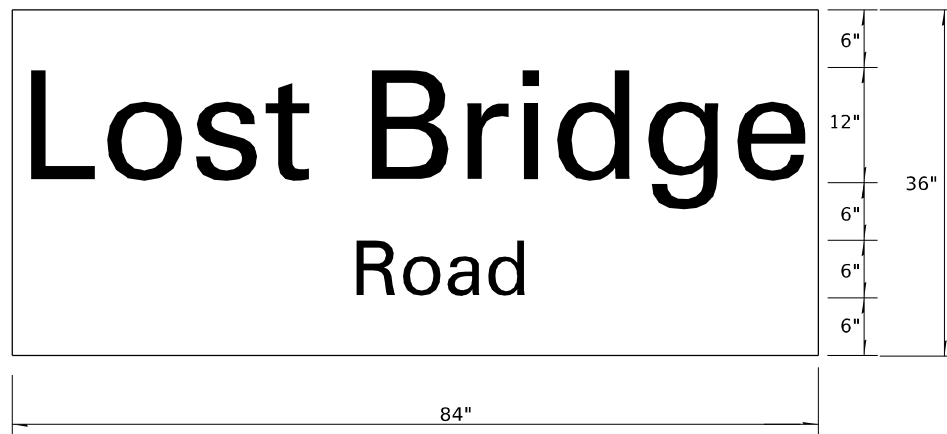
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	DRAWN -	REVISED -	
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -	
PLOT DATE = 12/22/2022	DATE -	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

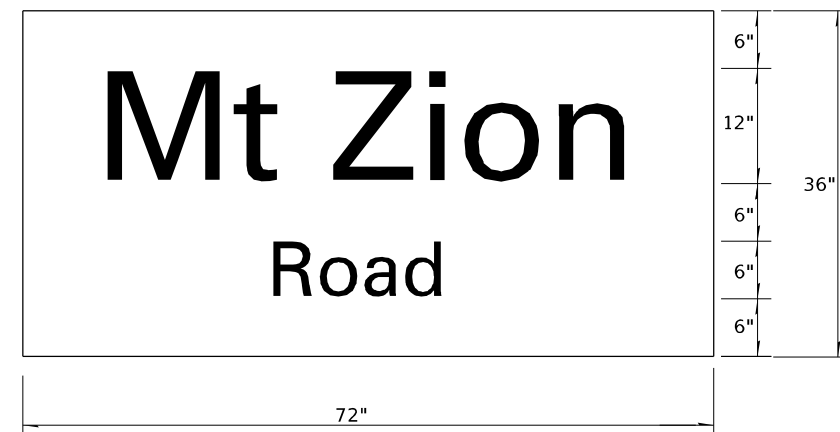
INTERSECTION OF LOST BRIGE RD & IL 121			
DETAILS			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	109
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



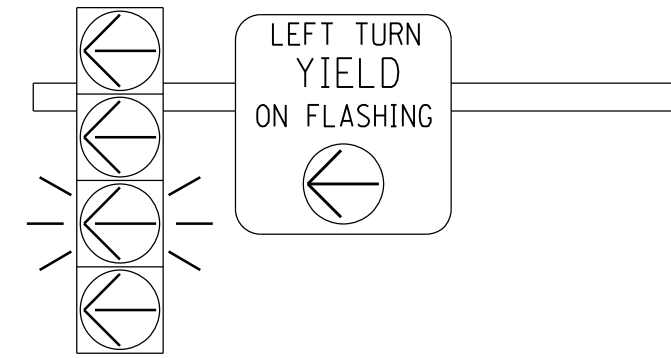
1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. 12" AND 6" UPPER/LOWER CASE LETTERS, T2000 HWY D FONT

TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 436+82.7, 39.6' RT)  
 TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 435+28.6, 48.2' LT)



1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. 12" AND 6" UPPER/LOWER CASE LETTERS, T2000 HWY D FONT

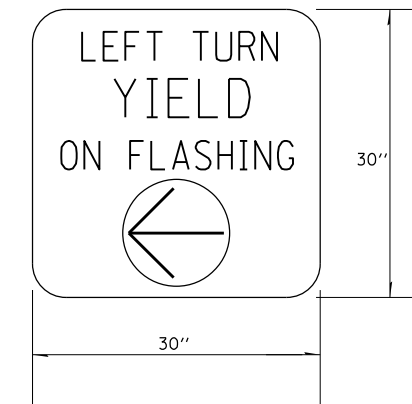
TO BE INSTALLED ON EASTBOUND MAST ARM (STA 435+69.2, 44.9' RT)



FLASHING YELLOW ARROW  
SIGN PANEL DETAILS

TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 436+82.7, 39.6' RT)  
 TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 435+28.6, 48.2' LT)

1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-I109a SIGN.



MODEL: Default  
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USER NAME = Jessica.Hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LOST BRIGE RD & IL 121  
SIGN DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	110
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

# BILL OF MATERIALS-Lost Bridge Road & Il 121

CODE	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL-TYPE 1	SOFT	13
72000200	SIGN PANEL-TYPE 2	SOFT	60
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	133
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	22
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	100
81500100	GULFBOX JUNCTION	EACH	1
81702420	ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 3-1/C N08	FOOT	359
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER CABINET TYPE IV	EACH	1
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	1777
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	844
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	255
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	49
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	70
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	2
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	1
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT	EACH	1
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT	EACH	1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28
87900200	DRILL EXISTING HANDHOLE	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6

CODE	ITEM	UNIT	QUANTITY
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	16
88500100	INDUCTIVE LOOP DETECTOR	EACH	10
88600100	DETECTOR LOOP, TYPE I	FOOT	976
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502300	REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	2562
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
X1400202	LUMINAIRE (SPECIAL)	EACH	1
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1

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PLOT SCALE = 20,0000 */ in.	DRAWN -	REVISIED -
PLOT DATE = 12/22/2022	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LOST BRIDGE RD & IL 121  
BILL OF MATERIALS**

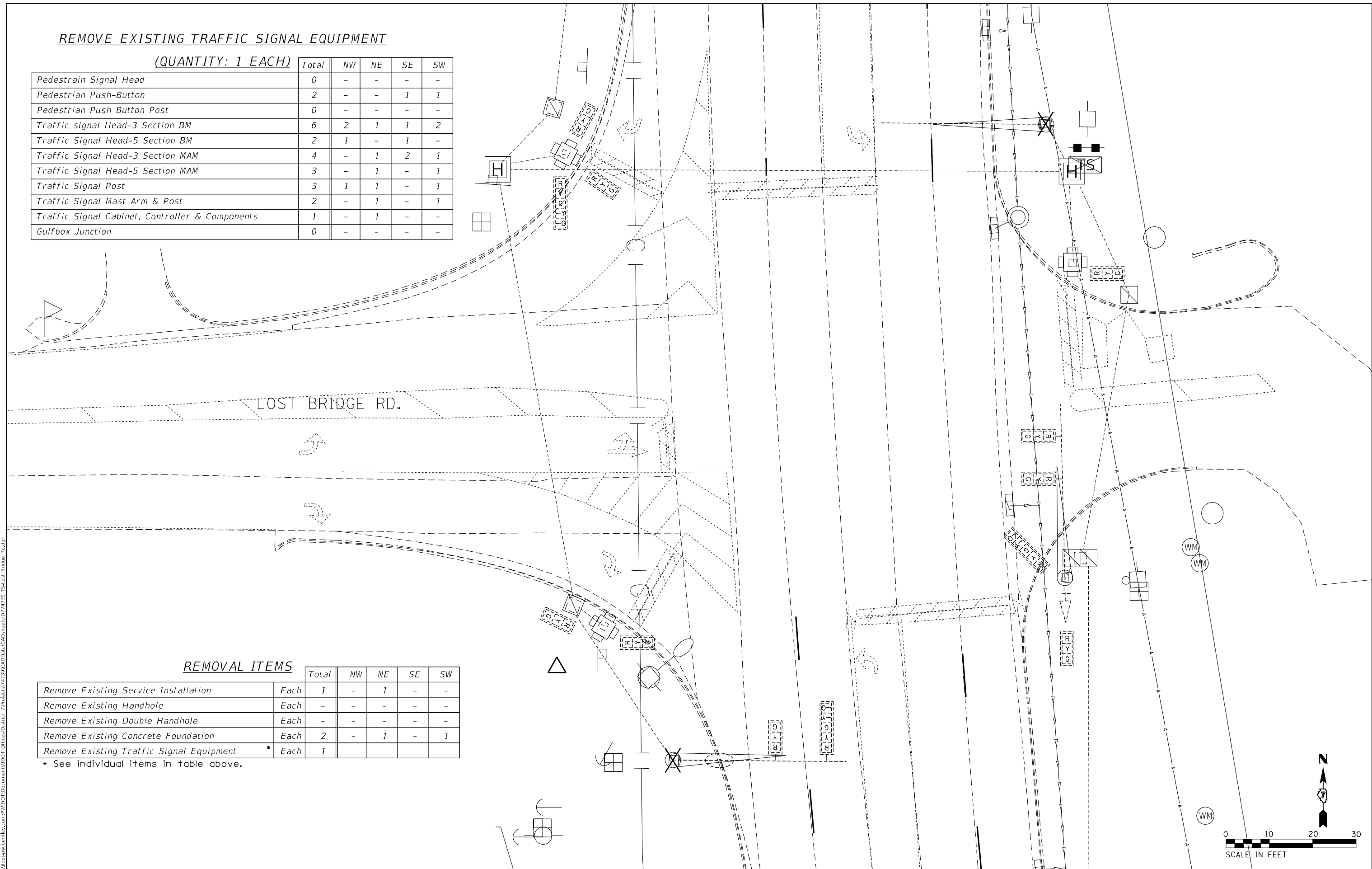
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	111
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

(QUANTITY: 1 EACH)

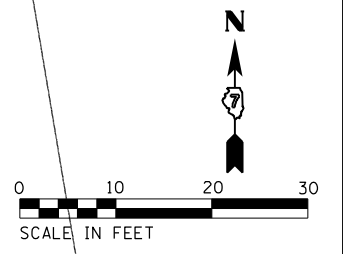
	Total	NW	NE	SE	SW
Pedestrian Signal Head	0	-	-	-	-
Pedestrian Push-Button	2	-	-	1	1
Pedestrian Push Button Post	0	-	-	-	-
Traffic signal Head-3 Section BM	6	2	1	1	2
Traffic Signal Head-5 Section BM	2	1	-	1	-
Traffic Signal Head-3 Section MAM	4	-	1	2	1
Traffic Signal Head-5 Section MAM	3	-	1	-	1
Traffic Signal Post	3	1	1	-	1
Traffic Signal Mast Arm & Post	2	-	1	-	1
Traffic Signal Cabinet, Controller & Components	1	-	1	-	-
Gulfbox Junction	0	-	-	-	-



REMOVAL ITEMS

	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	1	-	-
Remove Existing Handhole	Each -	-	-	-	-
Remove Existing Double Handhole	Each -	-	-	-	-
Remove Existing Concrete Foundation	Each 2	-	1	-	1
Remove Existing Traffic Signal Equipment	Each 1				

• See individual items in table above.



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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

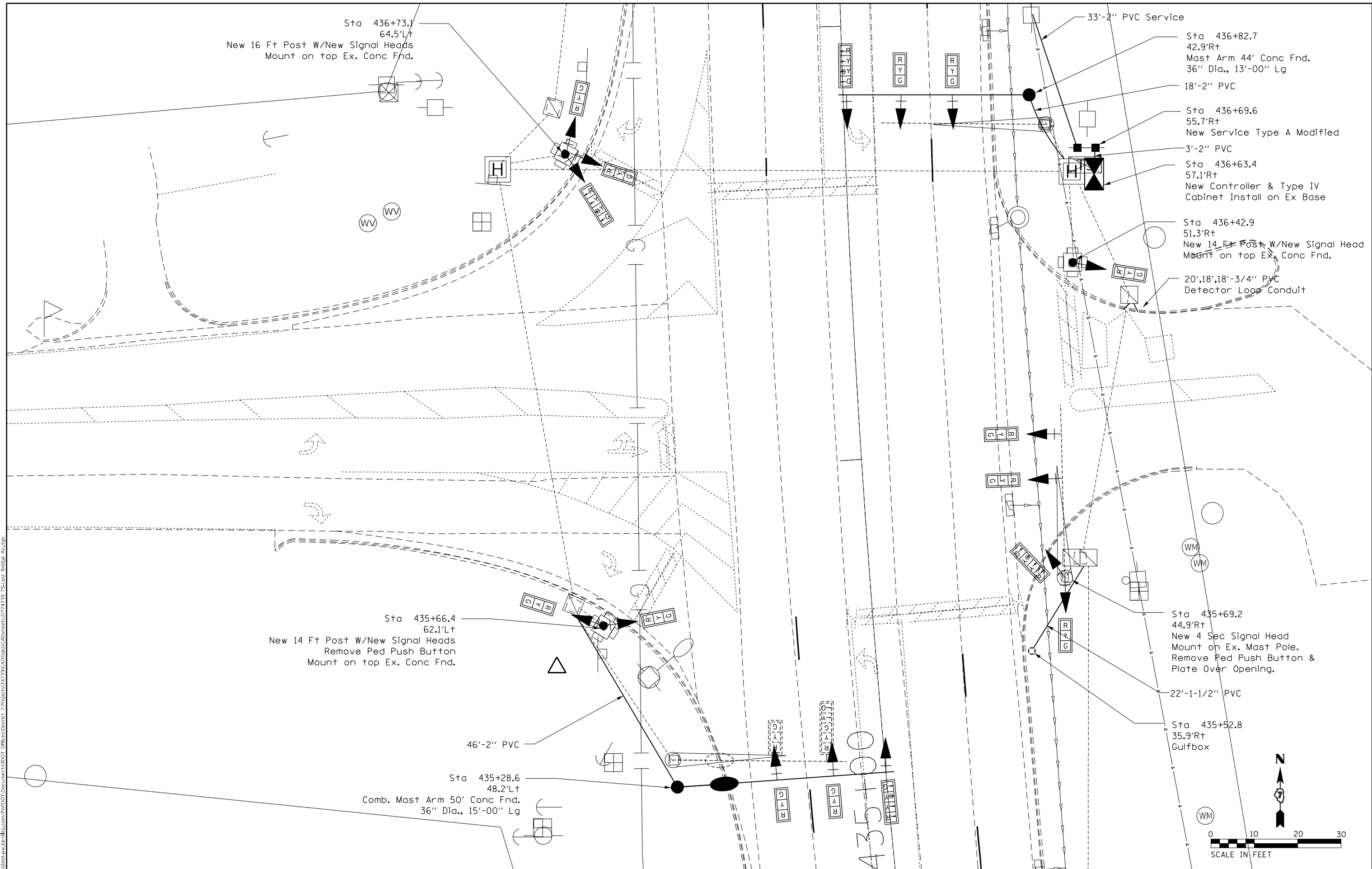
**INTERSECTION OF LOST BRIDGE RD & IL 121  
REMOVAL ITEMS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 320	SECTION 101RS-2	COUNTY MACON	TOTAL SHEETS 148	SHEET NO. 112
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



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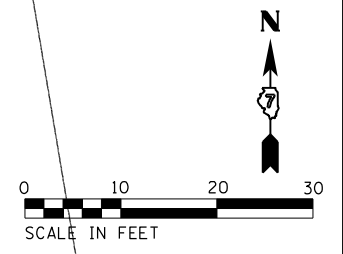
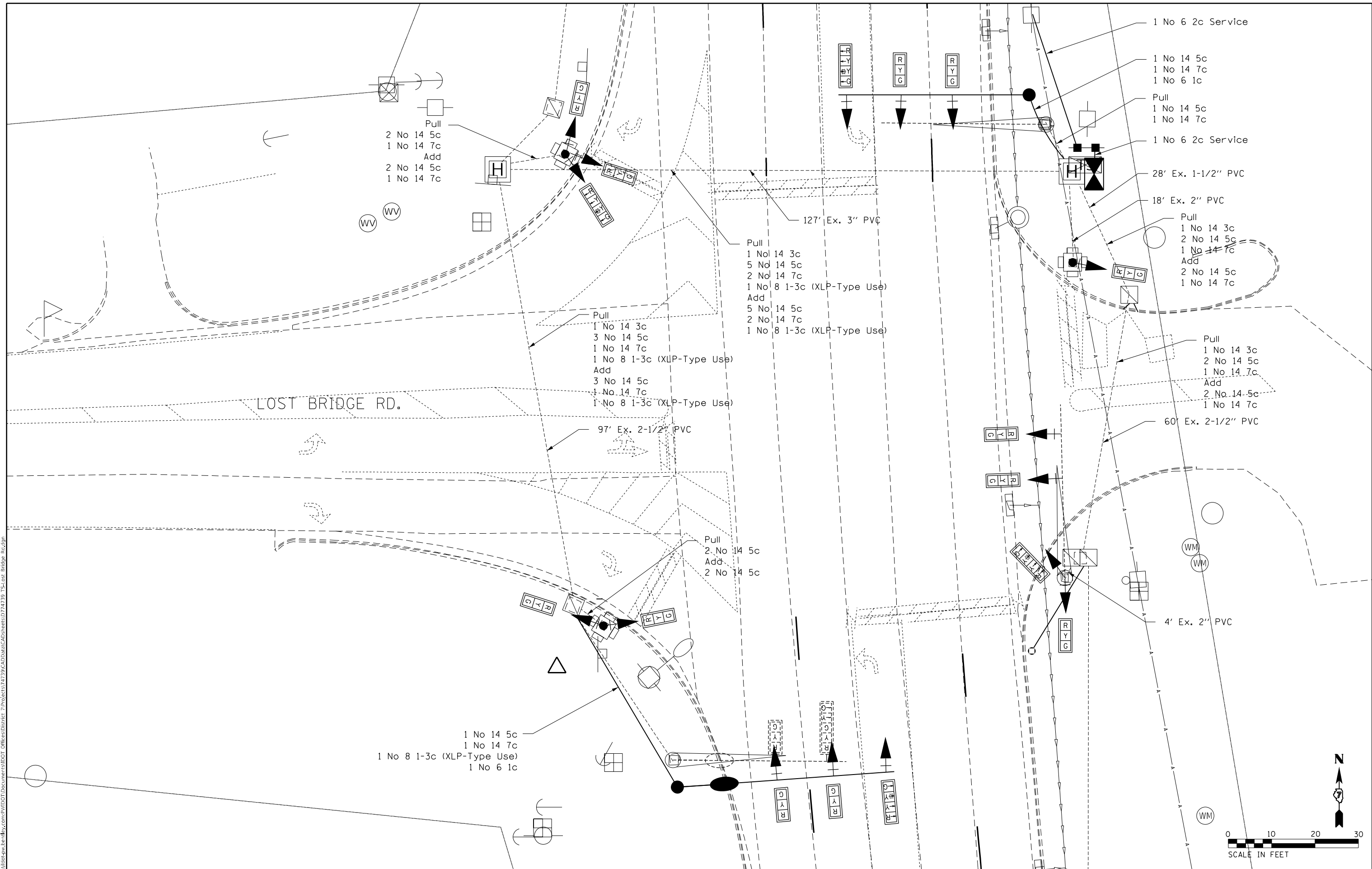
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LOST BRIDGE RD & IL 121**  
**SIGNAL LAYOUT**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE. 320	SECTION 101RS-2	COUNTY MACON	TOTAL SHEETS 148	SHEET NO. 113
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

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	DRAWN -	REVISED -
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PLOT DATE = 12/22/2022	DATE -	REVISED -

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

**INTERSECTION OF LOST BRIDGE RD & IL 121**  
**CABLE LAYOUT**

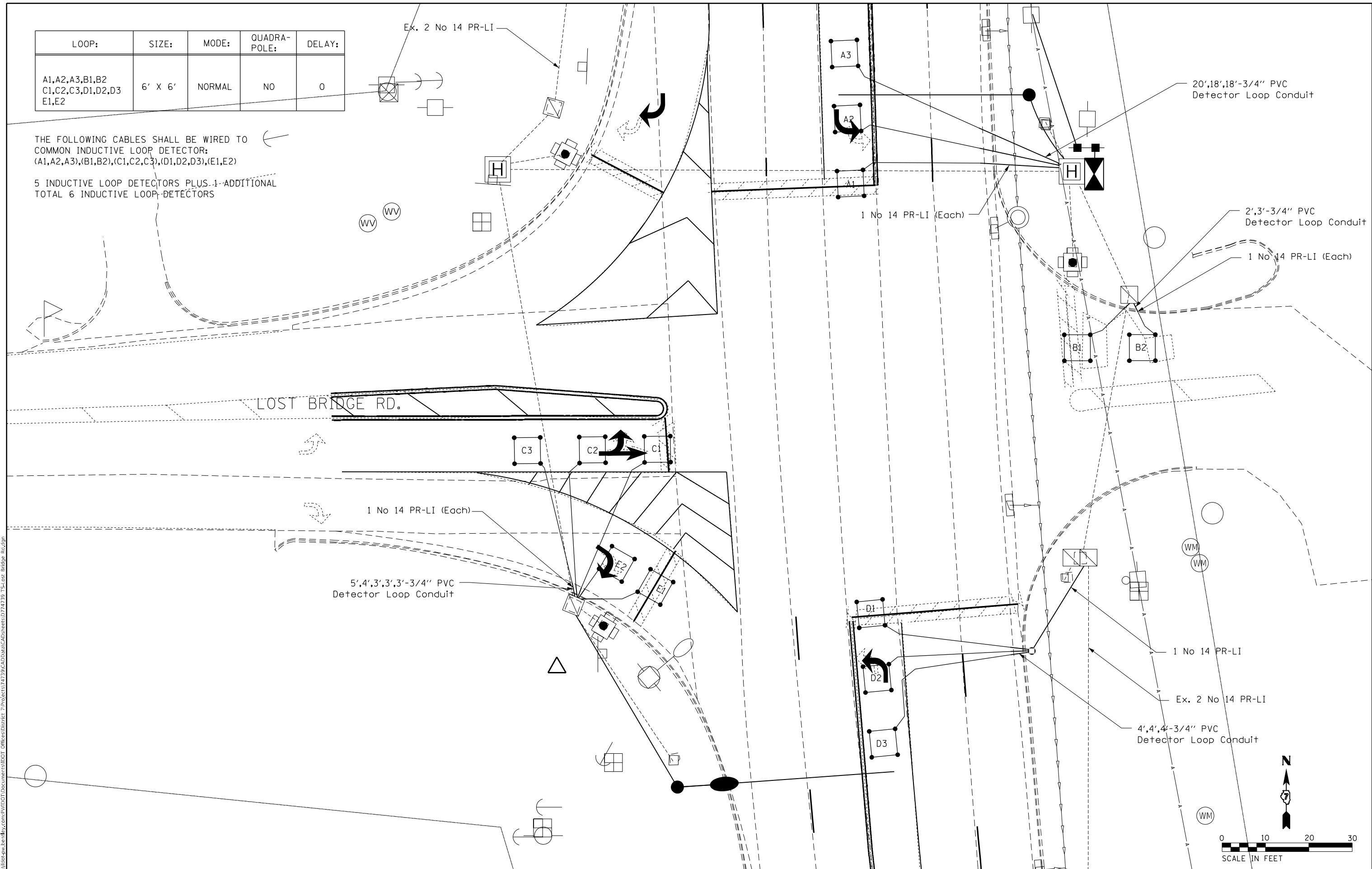
SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	114
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3,B1,B2 C1,C2,C3,D1,D2,D3 E1,E2	6' X 6'	NORMAL	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(A1,A2,A3),(B1,B2),(C1,C2,C3),(D1,D2,D3),(E1,E2)

5 INDUCTIVE LOOP DETECTORS PLUS 1-ADDITIONAL  
TOTAL 6 INDUCTIVE LOOP DETECTORS



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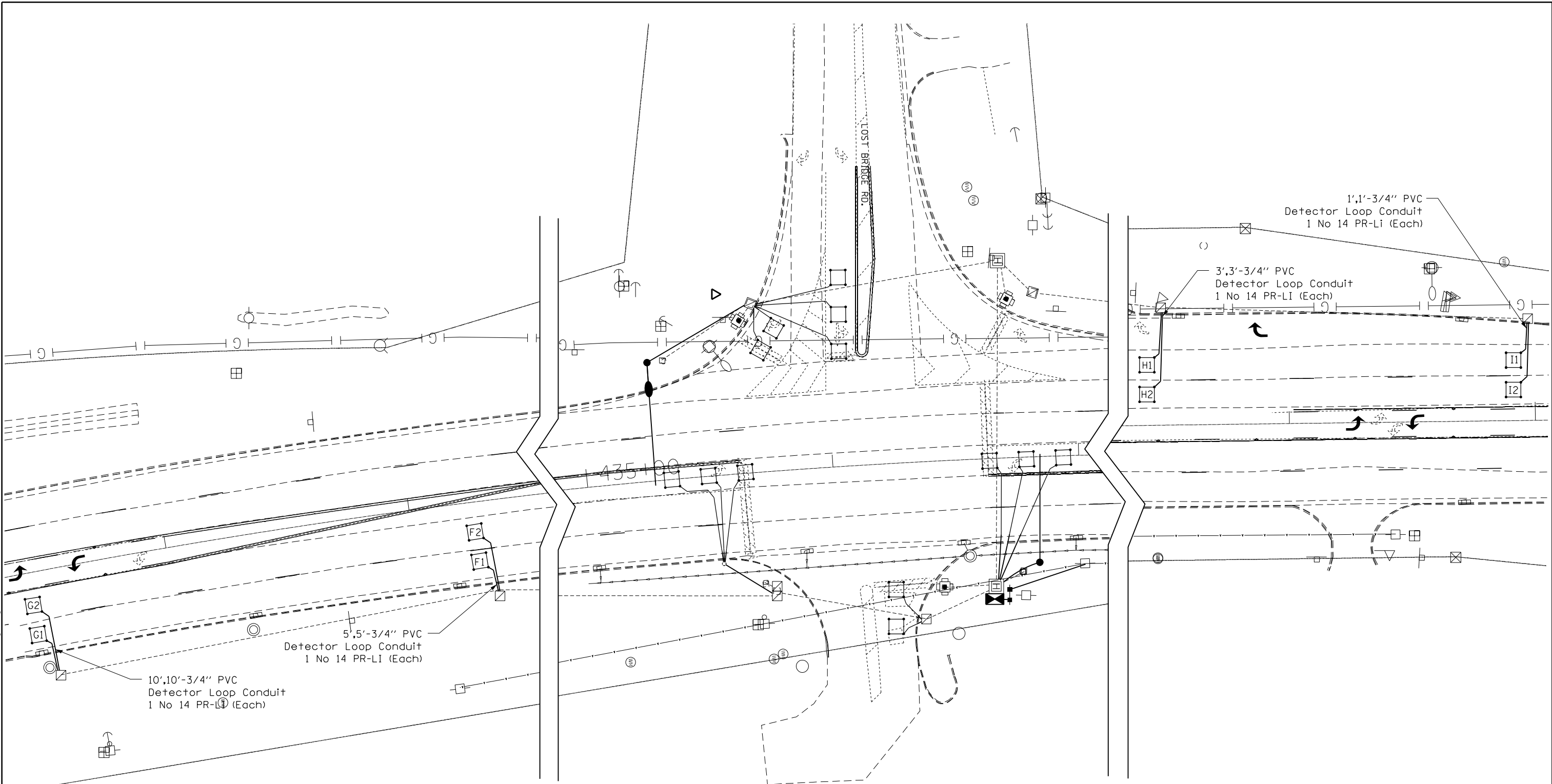
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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF LOST BRIDGE RD & IL 121  
DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

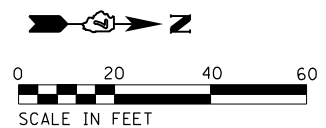
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101R5-2	MACON	148	115
CONTRACT NO. 74739			ILLINOIS FED. AID PROJECT	



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
(F1,F2),(G1,G2) (H1,H2),(I1,I2)	6' X 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(F1,F2),(G1,G2),(H1,H2),(I1,I2)

4 INDUCTIVE LOOP DETECTORS PLUS 0 ADDITIONAL  
TOTAL 4 INDUCTIVE LOOP DETECTORS



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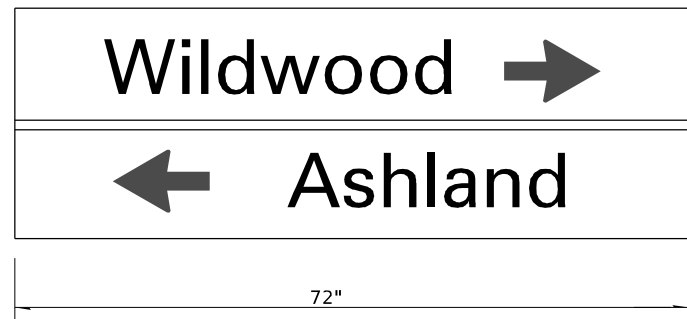
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PLOT DATE = 12/22/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>INTERSECTION OF LOST BRIDGE RD &amp; IL 121 ADVANCED DETECTOR LOOPS</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

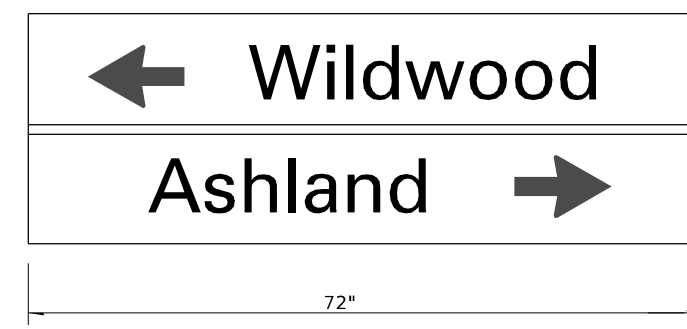
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	Macon	148	116
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				





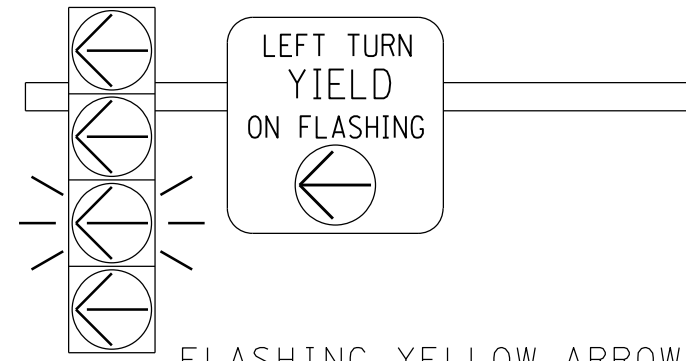
1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. UPPER/LOWER CASE 6" LETTERS T2000HWY E MOD FONT

TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 376+94.5, 41.0' LT)



1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. UPPER/LOWER CASE 6" LETTERS T2000HWY E MOD FONT

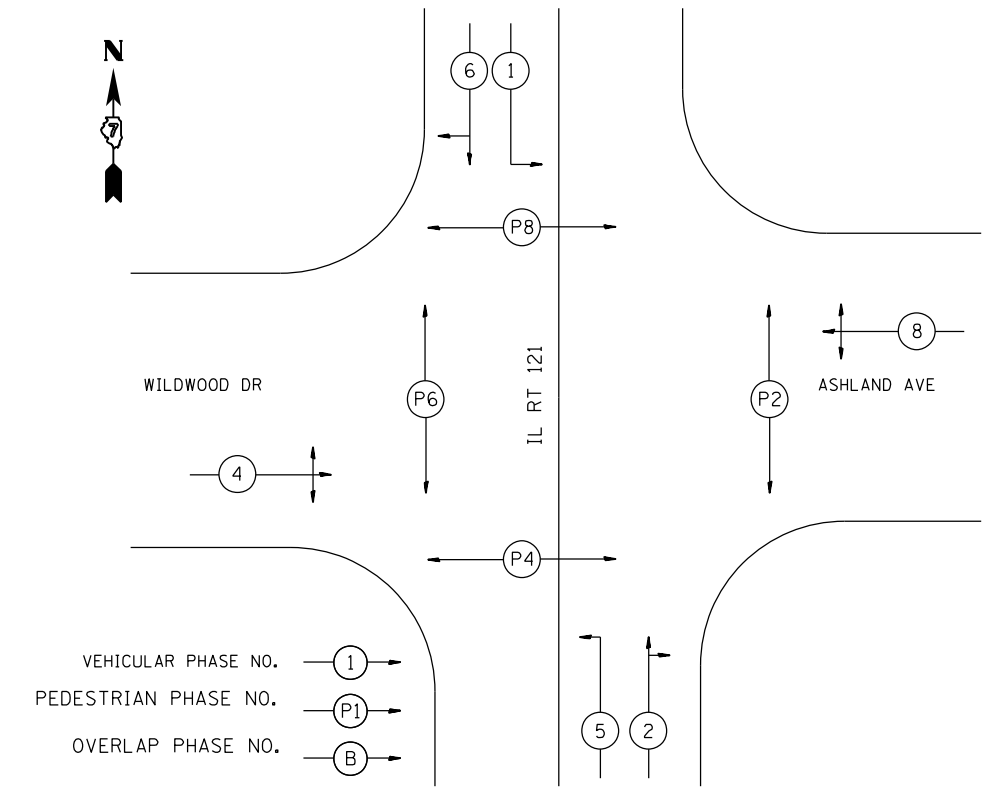
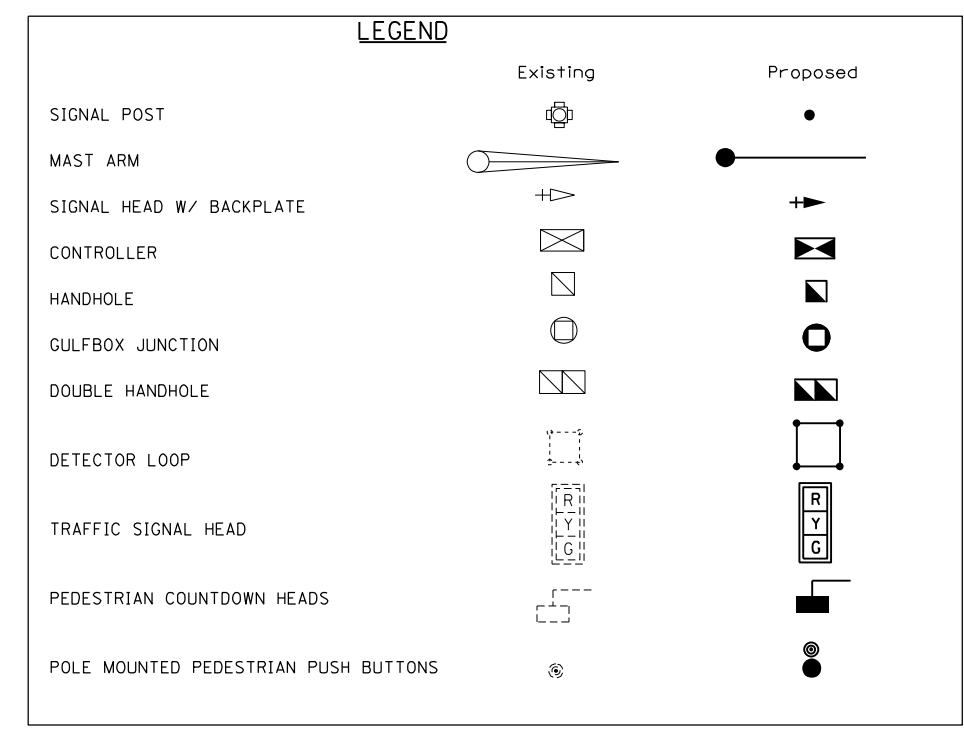
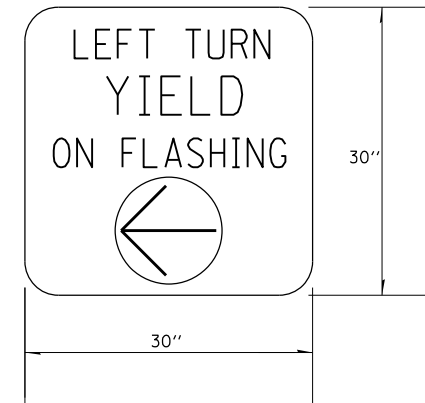
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 378+38.4, 48.1' RT)



FLASHING YELLOW ARROW SIGN PANEL DETAILS

TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 378+38.4, 48.1' RT)  
TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 376+94.5, 41.0' LT)

1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



PHASE DESIGNATION DIAGRAM  
Wildwood Dr/Ashland Ave & IL 121  
NO SCALE

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN (FT)				NUMBER OF TURNS	
		6 X 6	6 X 30	6 X 40			
		DISTANCE FROM CONTROLLER (FT)					
			0	491	0	627	2 TURNS
			492	982	628	1255	3 TURNS
0	545	983	1636	1256	2091		4 TURNS
546	818	1637	2455	2092	3136		5 TURNS
819	1145	2456	3436				6 TURNS
1146	1527						7 TURNS
1528	1964						8 TURNS
1965	2455						9 TURNS
2456	3000						10 TURNS

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PLOT DATE = 12/22/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF WILDWOOD DR /ASHLAND & IL 121  
DETAILS  
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	118
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

# BILL OF MATERIALS-Wildwood Dr / Ashland Ave & Il 121

CODE	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL-TYPE 1	SOFT	13
72000200	SIGN PANEL-TYPE 2	SOFT	24
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	143
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	74
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	132
81500100	GULFBOX JUNCTION	EACH	2
81702420	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO 8	FOOT	226
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER CABINET TYPE IV	EACH	1
86300400	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	379
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	1140
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	432
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	261
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	22
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	142
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	5
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT	EACH	1
87702980	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 50 FT	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28

CODE	ITEM	UNIT	QUANTITY
87900200	DRILL EXISTING HANDHOLE	EACH	8
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	16
88500100	INDUCTIVE LOOP DETECTOR	EACH	12
88600100	DETECTOR LOOP, TYPE I	FOOT	1425
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502300	REMOVE ELECTRICAL CABLE FROM CONDUIT	FOOT	2089
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4
X1400202	LUMINAIRE (SPECIAL)	EACH	1
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4

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PLOT DATE = 12/22/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF WILDWOOD DR /ASHLAND & IL 121  
BILL OF MATERIALS**

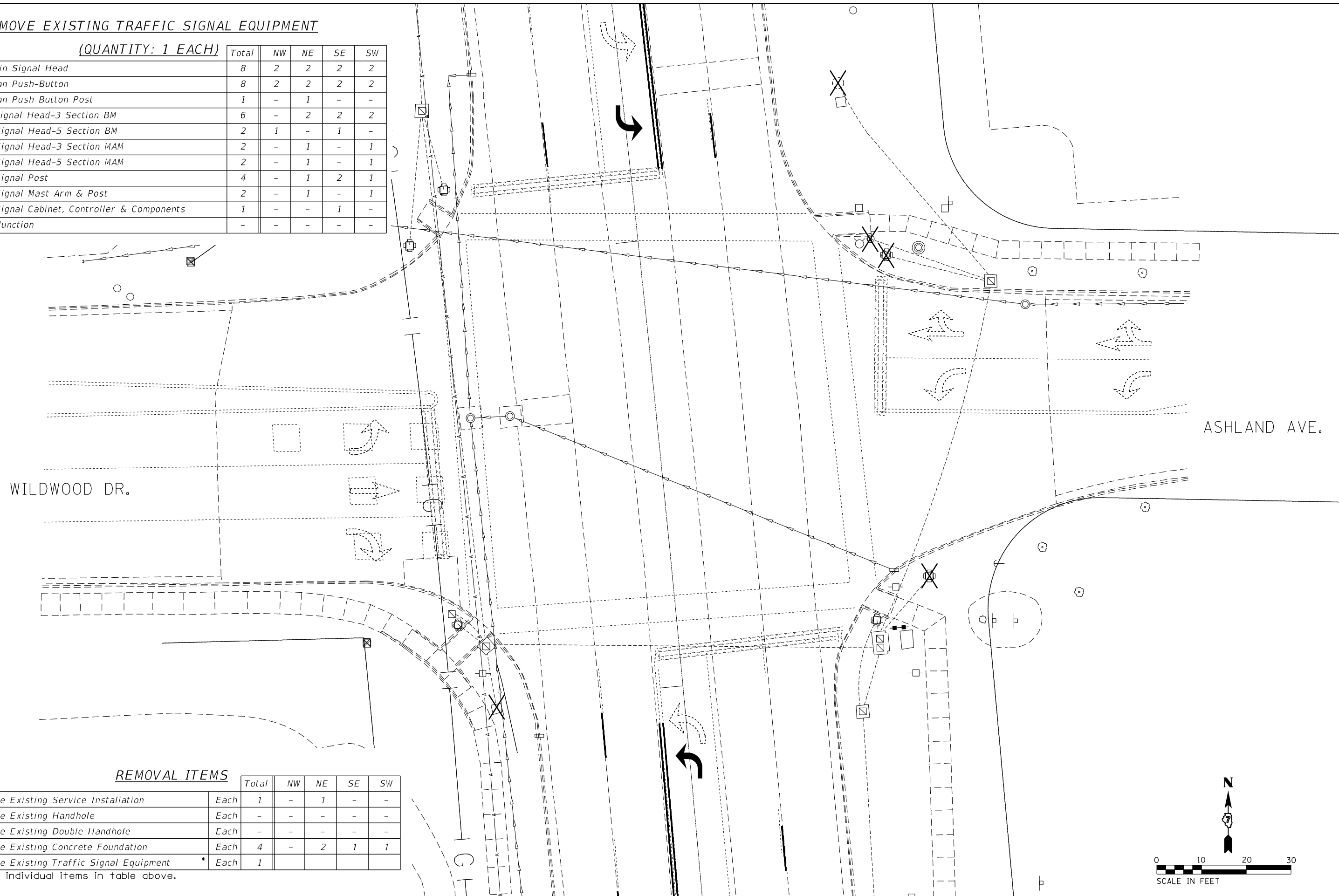
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	119
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	8	2	2	2	2
Pedestrian Push-Button	8	2	2	2	2
Pedestrian Push Button Post	1	-	1	-	-
Traffic signal Head-3 Section BM	6	-	2	2	2
Traffic Signal Head-3 Section MAM	2	1	-	1	-
Traffic Signal Head-5 Section MAM	2	-	1	-	1
Traffic Signal Post	4	-	1	2	1
Traffic Signal Mast Arm & Post	2	-	1	-	1
Traffic Signal Cabinet, Controller & Components	1	-	-	1	-
Gulfbox Junction	-	-	-	-	-



**REMOVAL ITEMS**

	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	1	-	-
Remove Existing Handhole	Each -	-	-	-	-
Remove Existing Double Handhole	Each -	-	-	-	-
Remove Existing Concrete Foundation	Each 4	-	2	1	1
Remove Existing Traffic Signal Equipment	Each 1				

\* See individual items in table above.

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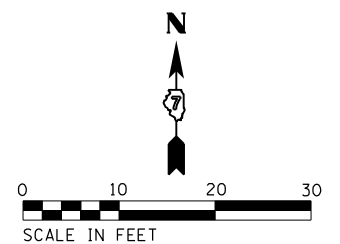
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF WILDWOOD DR /ASHLAND & IL 121  
REMOVAL ITEMS**

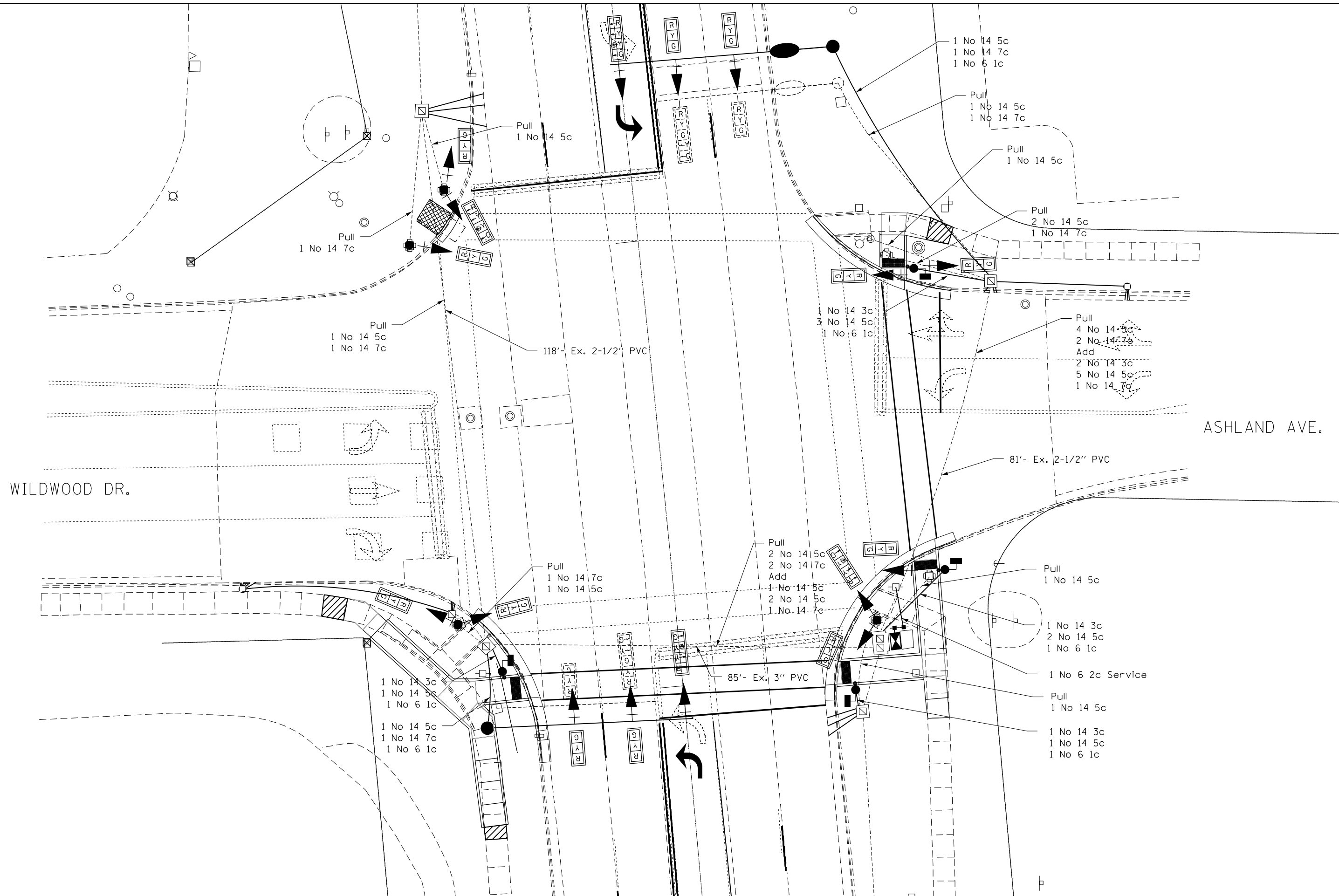
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F.A.P. RTE. 320	SECTION 101RS-2	COUNTY MACON	TOTAL SHEETS 148	SHEET NO. 120
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				









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PLOT DATE = 12/22/2022	DATE -	REVISED -

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

**INTERSECTION OF WILDWOOD DR /ASHLAND & IL 121**  
**CABLE LAYOUT**

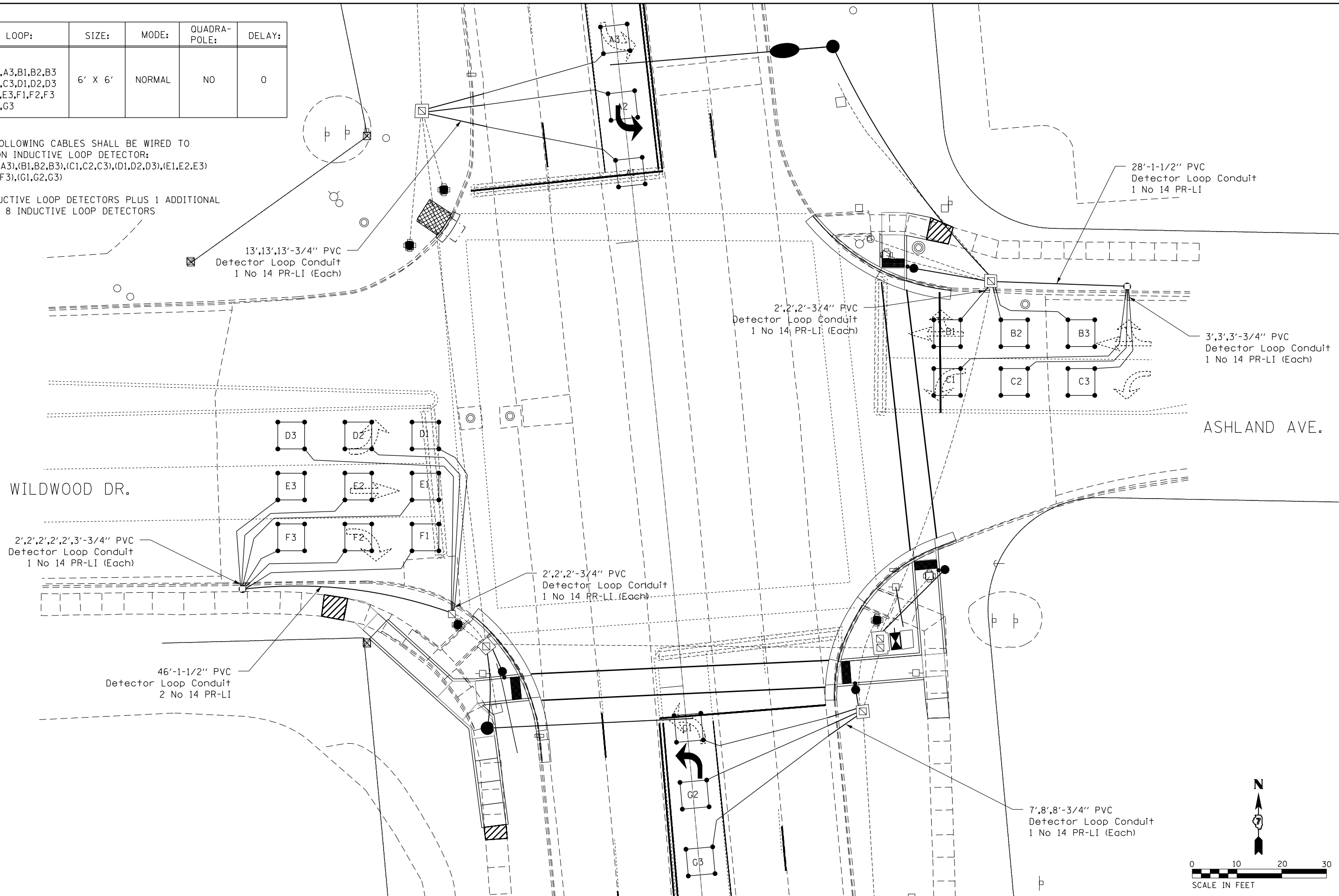
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	122
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3,B1,B2,B3 C1,C2,C3,D1,D2,D3 E1,E2,E3,F1,F2,F3 G1,G2,G3	6' X 6'	NORMAL	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(A1,A2,A3),(B1,B2,B3),(C1,C2,C3),(D1,D2,D3),(E1,E2,E3)  
(F1,F2,F3),(G1,G2,G3)

7 INDUCTIVE LOOP DETECTORS PLUS 1 ADDITIONAL  
TOTAL 8 INDUCTIVE LOOP DETECTORS



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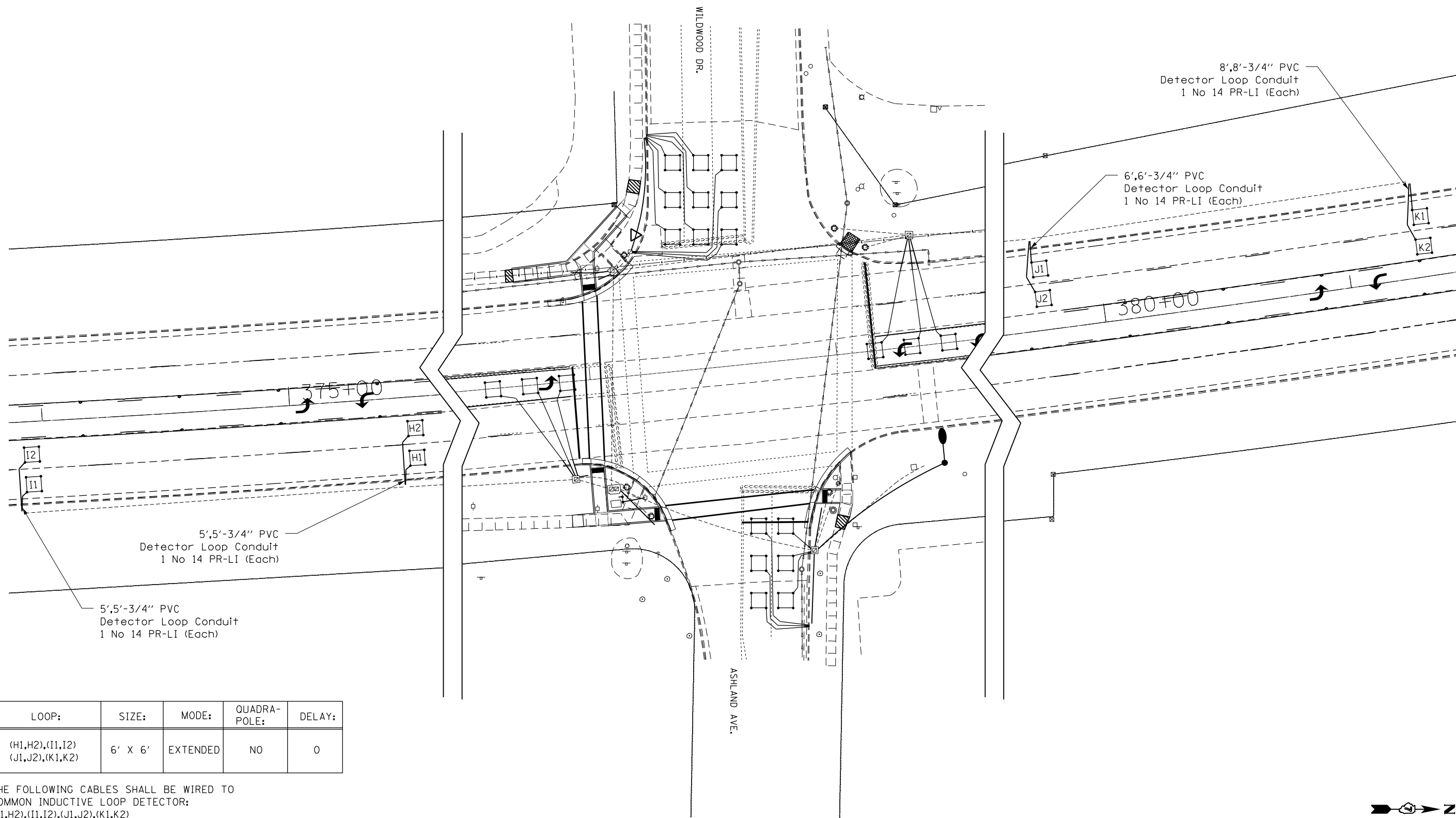
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF WILDWOOD DR /ASHLAND & IL 121  
DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

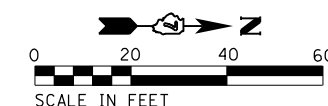
F.A.P. RTE. 320	SECTION 101RS-2	COUNTY MACON	TOTAL SHEETS 148	SHEET NO. 123
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
(H1,H2),(I1,I2) (J1,J2),(K1,K2)	6' X 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(H1,H2),(I1,I2),(J1,J2),(K1,K2)

4 INDUCTIVE LOOP DETECTORS PLUS 0 ADDITIONAL  
TOTAL 4 INDUCTIVE LOOP DETECTORS



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PLOT DATE = 12/22/2022	DATE -	REVISED -

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

<b>INTERSECTION OF WILDWOOD DR /ASHLAND &amp; IL 121</b>			
<b>ADVANCED DETECTOR LOOPS</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	124
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



Illinois Department  
of Transportation  
Division of Highways  
Illinois Department of Transportation

# SOIL BORING LOG

Page 1 of 1

Date 5/27/22

ROUTE FAP 320 (IL 121) DESCRIPTION Intersection of Ashland Avenue and IL 121 LOGGED BY E. Sandschafer  
SECTION 101RS-2 LOCATION Northeast Corner, SEC. 4, TWP. 15N, RNG. 3E, 3rd PM,  
Latitude 39.790802 N, Longitude 88.870846 W  
COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER Auto ETR = 91.8% @ 57.4 bpm

STRUCT. NO.	Station	DEPTH	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	DEPTH	B	U	M	
		(ft)	(/6")	(tsf)	(%)	NA	NA	None	None	NT	Hrs.	(ft)	(/6")	(tsf)	(%)	
SOIL BORING	05B-0000	CONTRACT #7739	IL 121	MT ZION TRAFFIC SIGNAL	2022.GPJ	IL_DOT.GDT	8/5/22									
		664.65				Stiff, moist, grey, CLAY LOAM TILL	645.65					4	6	1.9	13	
			2			Benchmark: Northeast Corner Top of Traffic Signal Mast Arm Foundation in Southwest Quadrant of IL 121 (Mt Zion Road) and Ashland Avenue. Elevation = 669.43 feet. End of Boring										
		662.15				Medium, moist, brown, CLAY with Organics										
			3	0.8	18											
			4	B												
		659.65				Stiff, moist, dark grey, SILTY CLAY LOAM										
			2													
			7	1.3	21											
			8	S												
		657.15				Soft, moist, grey, SILTY LOAM										
			2													
			1	0.3	19											
			2	B												
		654.65				Very stiff, moist, brown and grey marbled, CLAY LOAM										
			2													
			4	2.5	14											
			7	B												
		654.65				Hard, moist, brown, CLAY LOAM TILL										
			2													
			7	5.2	12											
			10	B												
			2													
			7	5.4	13											
			11	B												
			3													
			7	3.9	14											
			11	B												
		646.65				Very stiff										
			3													
			7													
			11													
		646.65														
			3													

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), WH-Weight of Hammer,  
NT-Not Tested.

BBS, form 137 (Rev. 8-99)

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PLOT DATE = 12/22/2022	CHECKED -	REVISED -
	DATE -	REVISED -

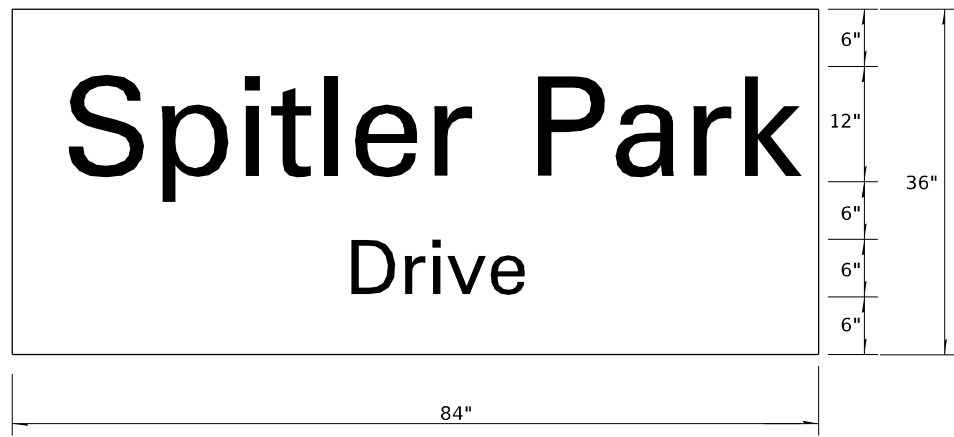
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF WILDWOOD DR /ASHLAND & IL 121  
SOIL BORINGS

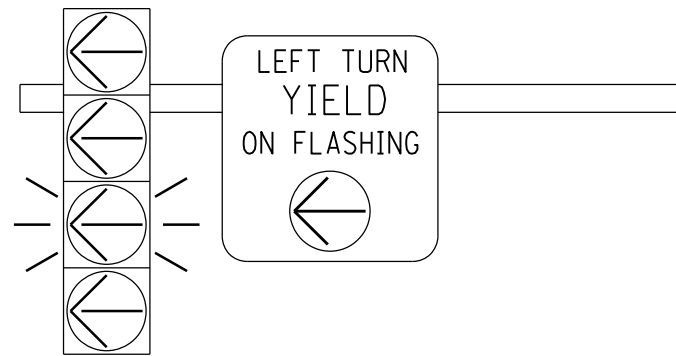
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	125
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. 12" AND 6" UPPER/LOWER CASE LETTERS, T2000 HWY D FONT



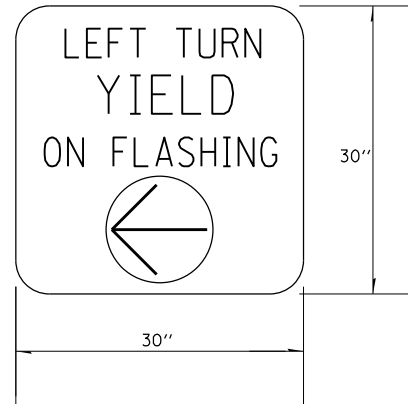
TO BE INSTALLED ON EXISTING NORTHBOUND MAST ARM (STA 343+54.4, 39.7' RT)  
TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 342+17, 45.7' LT)



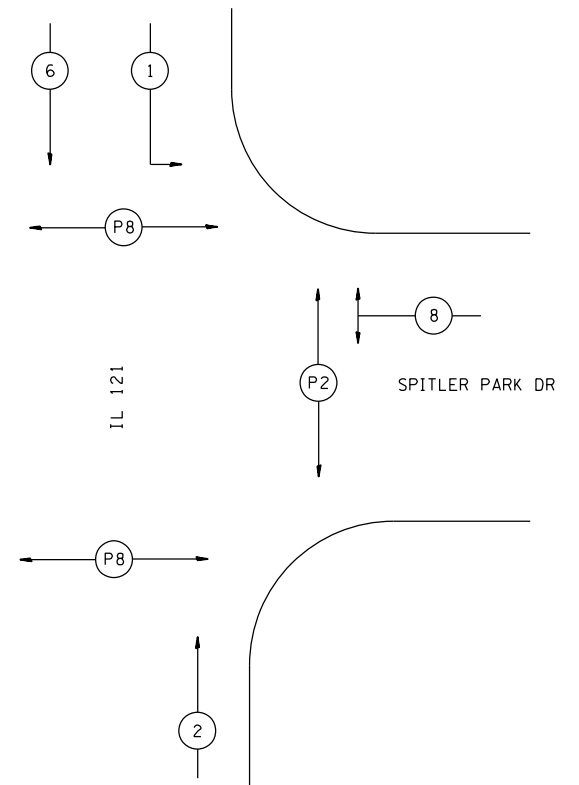
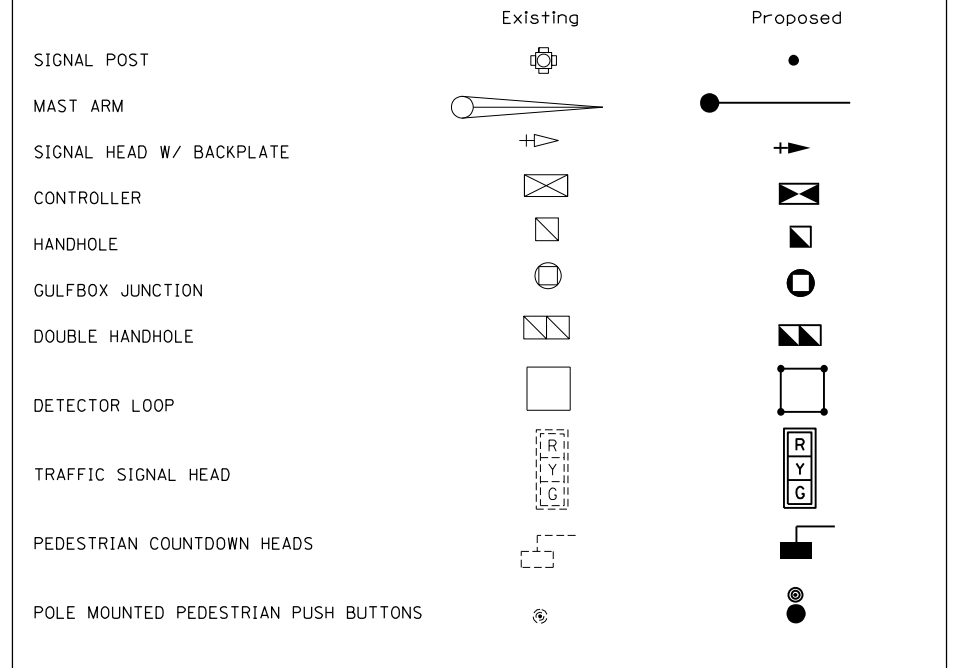
FLASHING YELLOW ARROW  
SIGN PANEL DETAILS

TO BE INSTALLED ON SOUTHBOUND MAST ARM (STA 342+17, 45.7' LT)

1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-1109a SIGN.



LEGEND



PHASE DESIGNATION DIAGRAM  
Spitler Park Dr & IL 121  
NO SCALE

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

	LOOP SIZE IN (FT)				NUMBER OF TURNS	
	6 X 6		6 X 30			6 X 40
	DISTANCE FROM CONTROLLER (FT)					
		0	491	0	627	2 TURNS
		492	982	628	1255	3 TURNS
0	545	983	1636	1256	2091	4 TURNS
546	818	1637	2455	2092	3136	5 TURNS
819	1145	2456	3436			6 TURNS
1146	1527					7 TURNS
1528	1964					8 TURNS
1965	2455					9 TURNS
2456	3000					10 TURNS

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	DRAWN -	REVISED -
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PLOT DATE = 12/22/2022	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERSECTION OF SPLITER PARK DR & IL 121  
DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	126
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

# BILL OF MATERIALS-Spitler Dr & Il 121

CODE	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL-TYPE 1	SOFT	7
72000200	SIGN PANEL-TYPE 2	SOFT	42
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	94
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	62
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	63
81400100	HANDHOLE	EACH	1
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER CABINET TYPE IV	EACH	1
86300400	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	492
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	856
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	305
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	120
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	31
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	139
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT	EACH	1
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	4
87700280	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT	EACH	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6

CODE	ITEM	UNIT	QUANTITY
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
87900200	DRILL EXISTING HANDHOLE	EACH	6
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	9
88500100	INDUCTIVE LOOP DETECTOR	EACH	8
88600100	DETECTOR LOOP, TYPE I	FOOT	723
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6

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PLOT DATE = 12/22/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF SPITLER PARK DR & IL 121  
BILL OF MATERIALS**

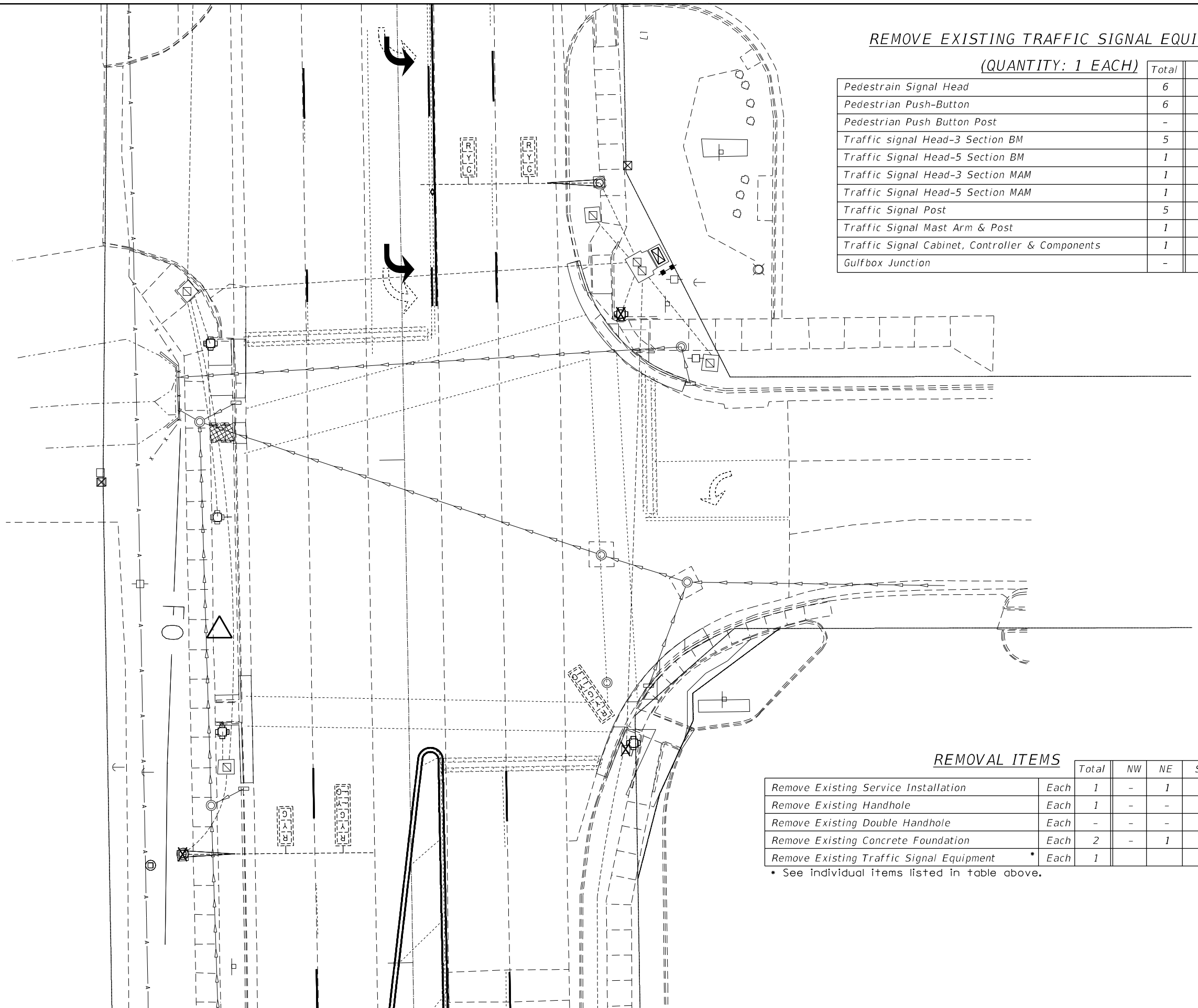
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	127
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**

(QUANTITY: 1 EACH)

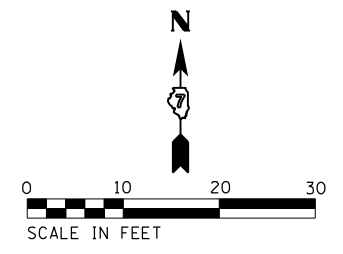
	Total	NW	NE	SE	SW
Pedestrian Signal Head	6	1	2	2	1
Pedestrian Push-Button	6	1	2	2	1
Pedestrian Push Button Post	-	-	-	-	-
Traffic Signal Head-3 Section BM	5	3	1	1	-
Traffic Signal Head-5 Section BM	1	-	-	1	-
Traffic Signal Head-3 Section MAM	1	-	-	-	1
Traffic Signal Head-5 Section MAM	1	-	-	-	1
Traffic Signal Post	5	2	1	1	1
Traffic Signal Mast Arm & Post	1	-	-	-	1
Traffic Signal Cabinet, Controller & Components	1	-	1	-	-
Gulfbox Junction	-	-	-	-	-



**REMOVAL ITEMS**

	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	1	-	-
Remove Existing Handhole	Each 1	-	-	1	-
Remove Existing Double Handhole	Each -	-	-	-	-
Remove Existing Concrete Foundation	Each 2	-	1	-	1
Remove Existing Traffic Signal Equipment	Each 1				

\* See individual items listed in table above.



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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

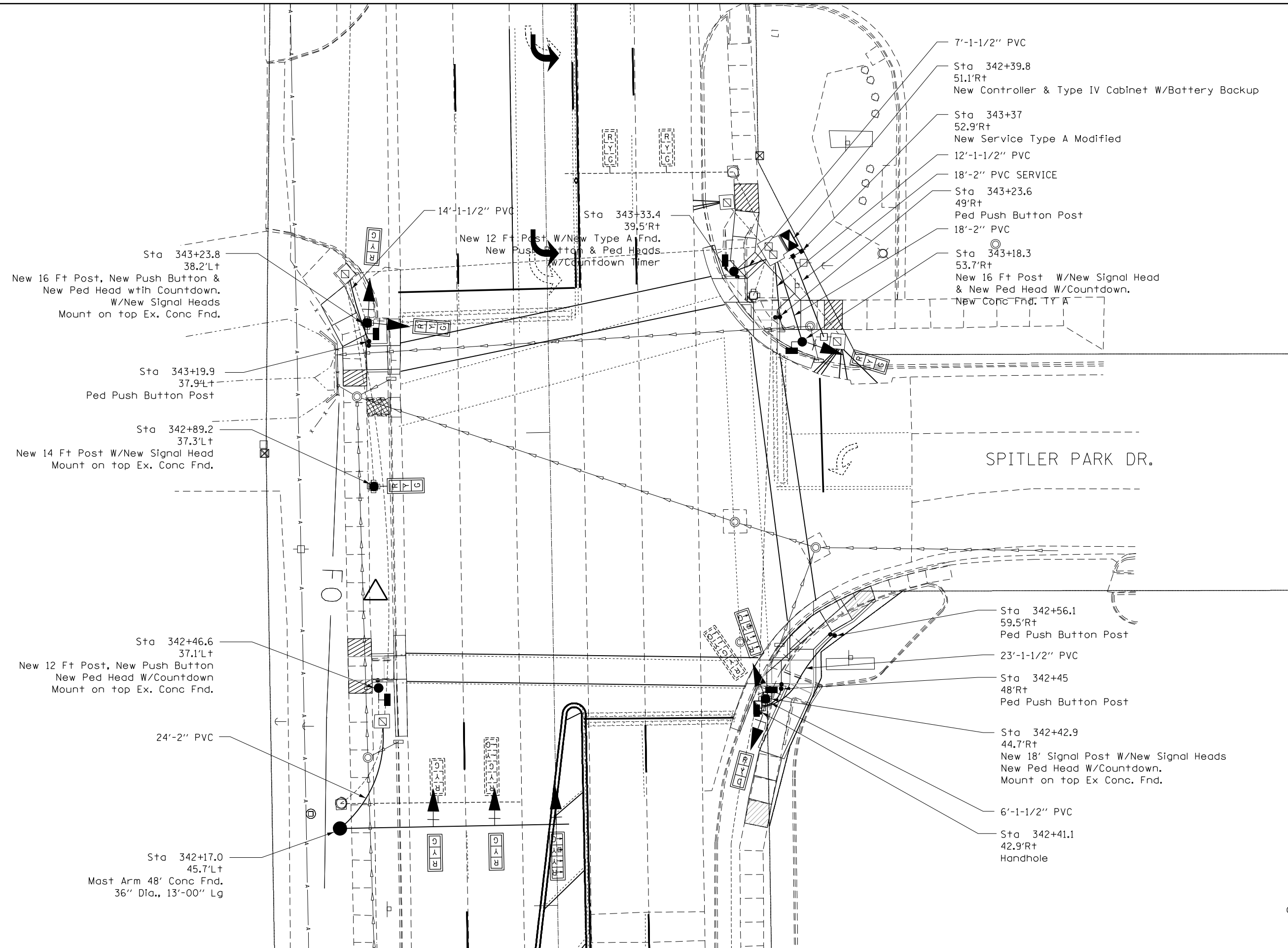
**INTERSECTION OF SPITZER PARK DR & IL 121  
REMOVAL ITEMS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	128
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 12/22/2022	DATE -	REVISD -

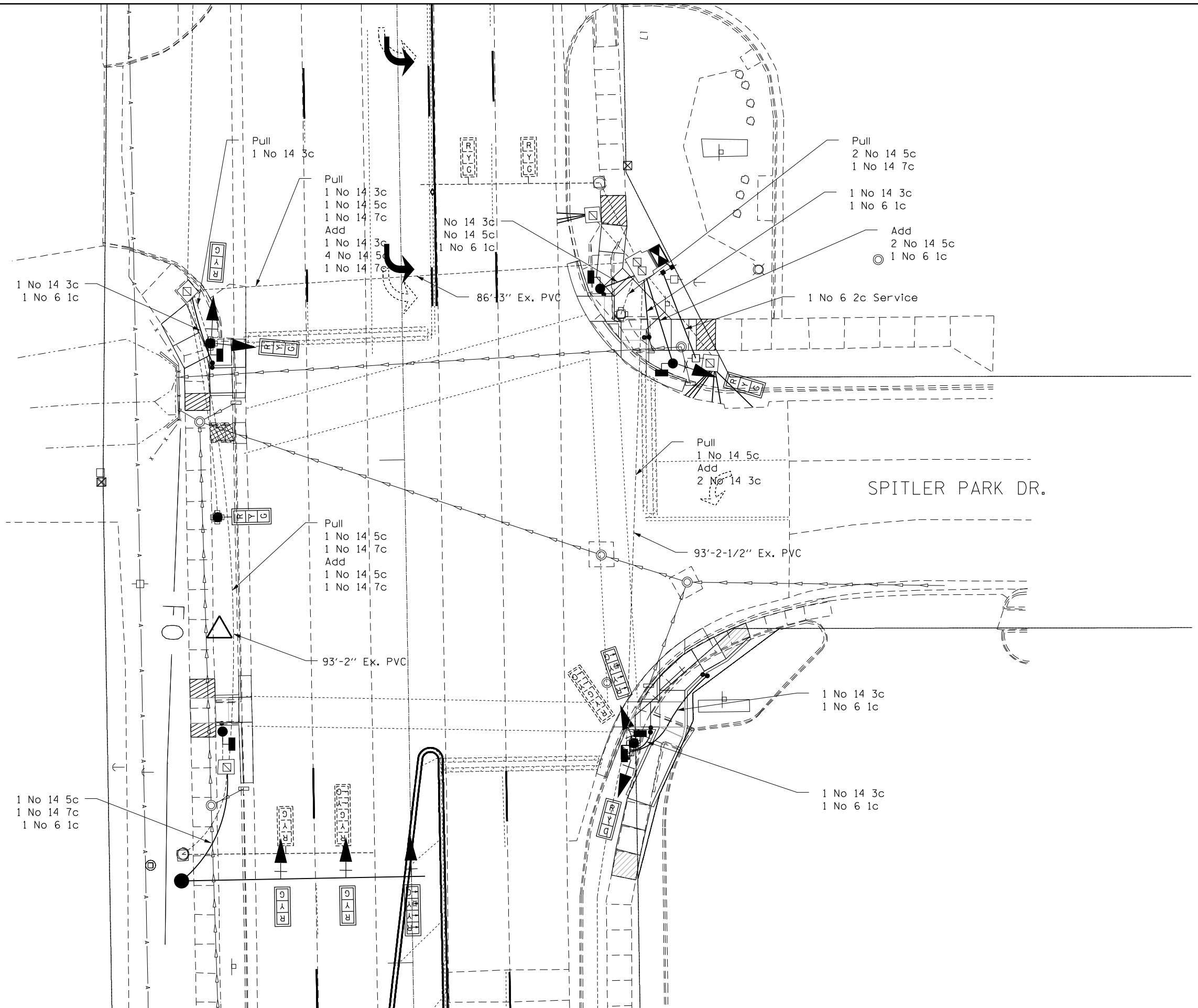
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF SPITLER PARK DR & IL 121**  
**SIGNAL LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	129
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF SPITLER PARK DR & IL 121  
 CABLE LAYOUT**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 320	SECTION 101RS-2	COUNTY MACON	TOTAL SHEETS 148	SHEET NO. 130
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3,B1,B2,B3 C1,C2,C3	6' X 6'	NORMAL	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(A1,A2,A3),(B1,B2,B3),(C1,C2,C3)

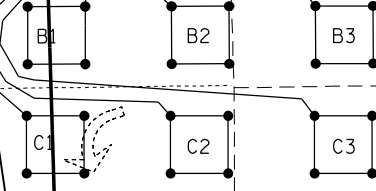
3 INDUCTIVE LOOP DETECTORS PLUS 1 ADDITIONAL  
TOTAL 4 INDUCTIVE LOOP DETECTORS

Ex. 2 No 14 PR-LI

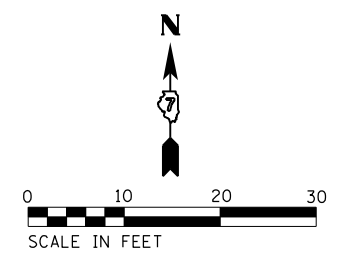
6',6'-3/4" PVC  
Detector Loop Conduit  
1 No 14 PR-LI (Each)

7',7'-3/4" PVC  
Detector Loop Conduit  
1 No 14 PR-LI (Each)

7',8'-12'-3/4" PVC  
Detector Loop Conduit  
1 No 14 PR-LI (Each)



Ex. 2 No 14 PR-LI



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PLOT DATE = 12/22/2022	DATE -	REVISD -

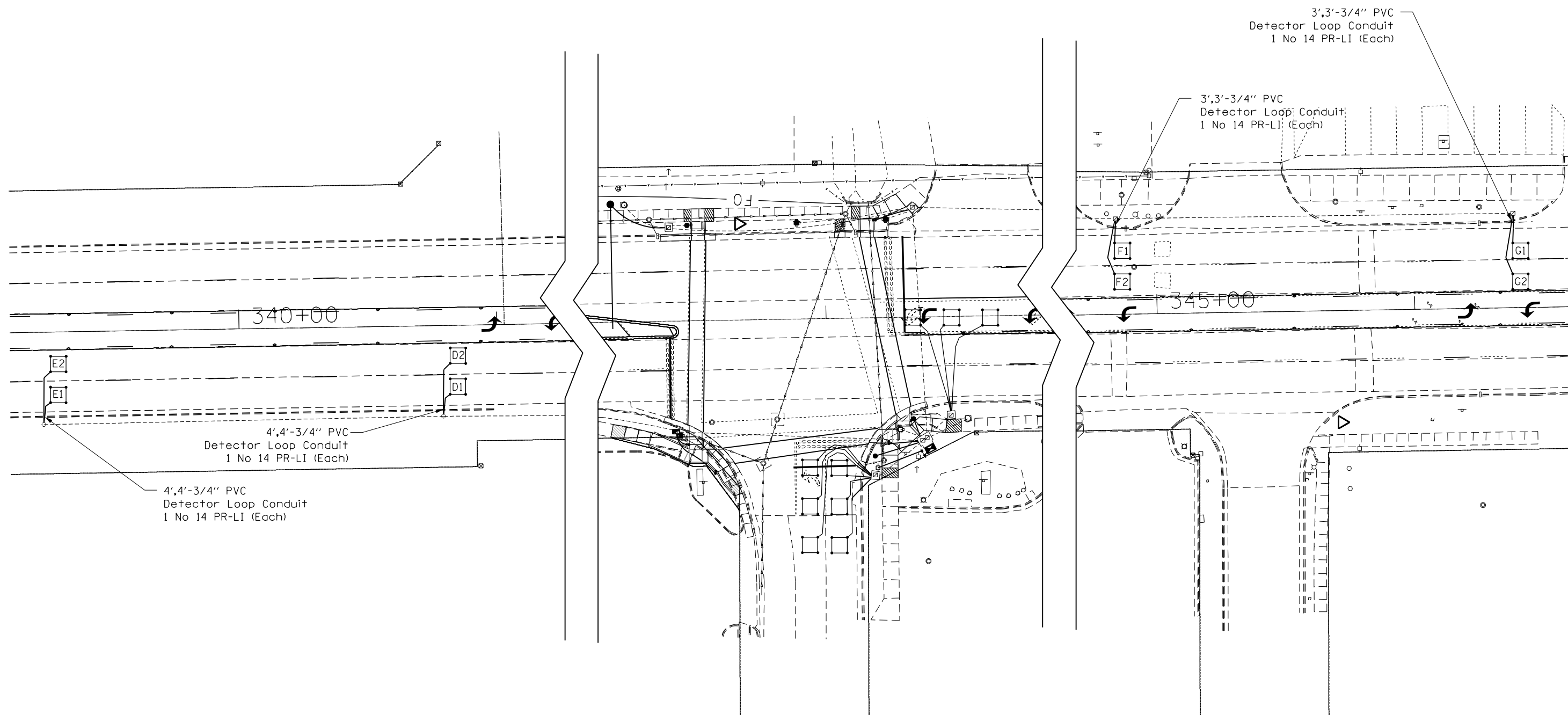
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DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF SPITLER PARK DR & IL 121  
DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

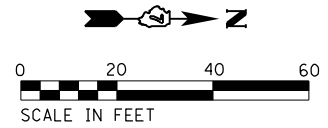
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	131
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
(D1,D2),(E1,E2) (F1,F2),(G1,G2)	6' X 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(D1,D2),(E1,E2),(F1,F2),(G1,G2)

4 INDUCTIVE LOOP DETECTORS PLUS 0 ADDITIONAL  
TOTAL 4 INDUCTIVE LOOP DETECTORS



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USER NAME = Jessica.Hille DESIGNED - DRAWN - PLOT SCALE = 40,0000 */ in. PLOT DATE = 12/22/2022				REVISED - REVISED - REVISED - REVISED -				<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>INTERSECTION OF SPITLER PARK DR &amp; IL 121 ADVANCED DETECTOR LOOPS</b>				F.A.P. RTE. 320 SECTION 101RS-2 COUNTY MACON TOTAL SHEETS 148 SHEET NO. 132 CONTRACT NO. 74739	
SCALE:				SHEET OF SHEETS				STA. TO STA.				ILLINOIS FED. AID PROJECT					



# SOIL BORING LOG

ROUTE FAP 320 (IL 121) DESCRIPTION Intersection of Spittler Park Drive and IL 121 LOGGED BY E. Sandschafer  
 SECTION 101RS-2 LOCATION Southwest Corner, SEC. 4, TWP. 15N, RNG. 3E, 3rd PM,  
Latitude 39.780856 N, Longitude 88.870856 W  
 COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER Auto ETR = 91.8% @ 57.4 bpm

STRUCT. NO. Traffic Signal D E L U M  
 Station 342+17, 45.7' LT P O S O I  
 BORING NO. 1 (Spittler Park Drive) T W S  
 Station 342+17 H S Qu T  
 Offset 35.7 ft LT  
 Ground Surface Elev. 693.07 ft (ft) (/6") (tst) (%)

Surface Water Elev. NA ft  
 Stream Bed Elev. NA ft  
 Groundwater Elev.:  
 First Encounter 683.6 ft▼  
 Upon Completion 685.1 ft▼  
 After NT Hrs. NT ft

Topsoil, Organics					
	691.07				
Stiff, moist, dark brown, CLAY LOAM		3			
		3	1.6	23	
		4	B		
	688.57				
Stiff, moist, brown, CLAY		-5	1		
		2	1.6	31	
		3	B		
	686.07				
Medium, moist, mottled grey, SILTY CLAY		1			
		1	1.0	23	
		2	B		
	683.5				
Soft, moist, brown, SILTY LOAM		-10	1		
		1	0.3	16	
		2	B		
	681.07				
Very stiff, moist, brown, CLAY LOAM		1			
		3	2.3	14	
		5	B		
	678.57				
Veru stiff, moist, brown, CLAY LOAM TILL		-15	3		
		5	3.1	12	
		9	B		
	677.07				
Benchmark: BM CB-5 - Chiseled Square on Southside of Concrete Foundation of Traffic Signal Mast Arm in Northeast Quadrant of IL 121 (Mt Zion Road) and Spittler Park Drive. Elevation = 693.303 feet.					
End of Boring					
	-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206), WH-Weight of Hammer, NT-Not Tested.

BBS, form 137 (Rev. 8-99)

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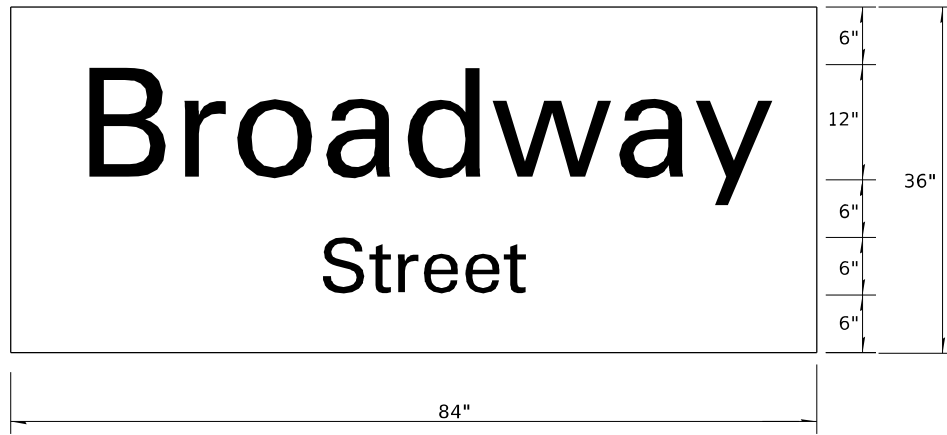
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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

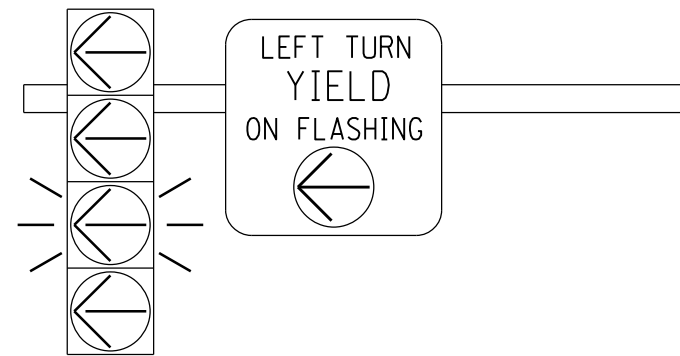
<b>INTERSECTION OF SPITLER PARK DR &amp; IL 121 SOIL BORINGS</b>			
SCALE:	SHEET	OF	SHEETS
		STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	133
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

1. SIGN SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND.
2. AP SHEETING.
3. 12" AND 6" UPPER/LOWER CASE LETTERS, T2000 HWY D FONT



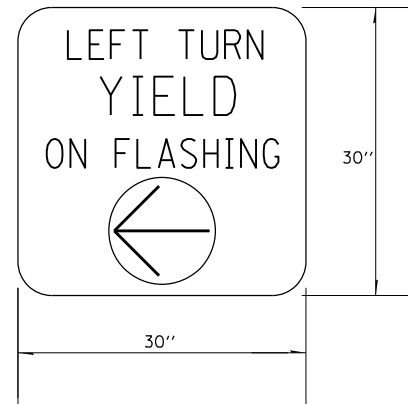
TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 317+23.6, 39.6' RT)  
 TO BE INSTALLED ON EXISTING SOUTHBOUND MAST ARM (STA 316+19.8, 41.2' LT)



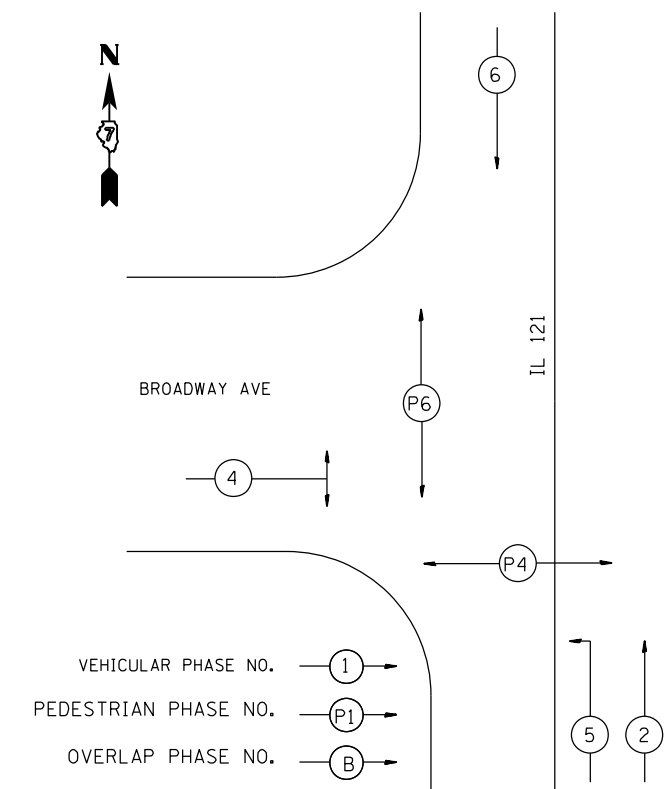
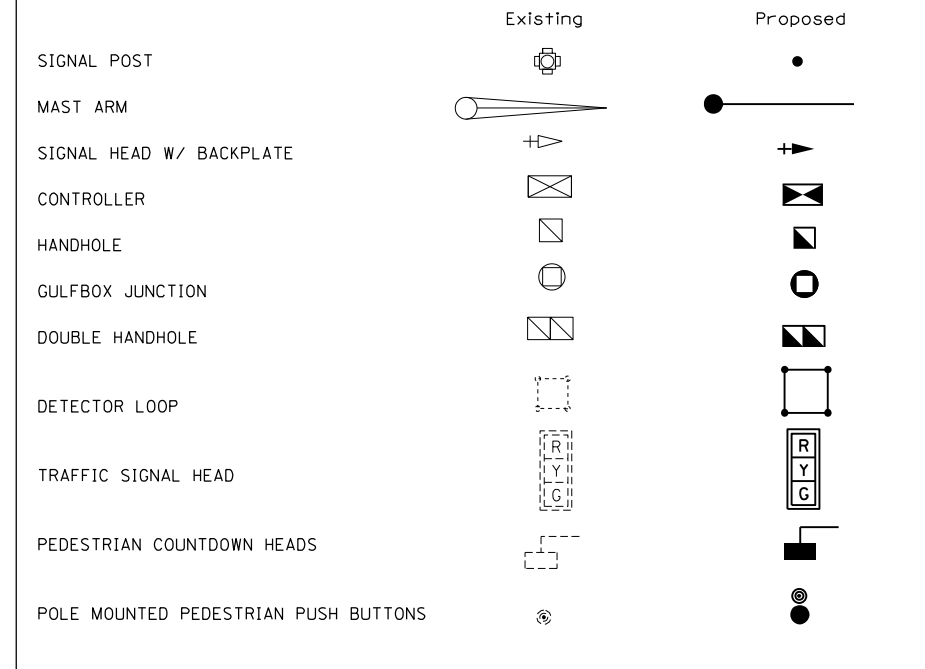
FLASHING YELLOW ARROW  
SIGN PANEL DETAILS

TO BE INSTALLED ON NORTHBOUND MAST ARM (STA 317+23.6, 39.6' RT)

1. SIGN SHALL HAVE A BLACK REFLECTORIZED LEGEND AND BORDER ON A WHITE REFLECTORIZED BACKGROUND. ARROW IS YELLOW ON A BLACK BACKGROUND.
2. AP SHEETING.
3. SIGN TO BE INSTALLED DIRECTLY ADJACENT TO FYA SIGNAL HEAD ON MAST ARM.
4. ILLINOIS STANDARD R10-I109a SIGN.



LEGEND



PHASE DESIGNATION DIAGRAM  
 Broadway Ave & Il 121  
 NO SCALE

NUMBER OF TURNS REQUIRED IN DETECTOR LOOPS

		LOOP SIZE IN (FT)				NUMBER OF TURNS
		6 X 30		6 X 40		
DISTANCE FROM CONTROLLER (FT)						
		0	491	0	627	2 TURNS
		492	982	628	1255	3 TURNS
0	545	983	1636	1256	2091	4 TURNS
546	818	1637	2455	2092	3136	5 TURNS
819	1145	2456	3436			6 TURNS
1146	1527					7 TURNS
1528	1964					8 TURNS
1965	2455					9 TURNS
2456	3000					10 TURNS

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	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 12/22/2022	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INTERSECTION OF BROADWAY & IL 121  
 DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	134
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

# BILL OF MATERIALS-Broadway & Il 121

CODE	ITEM	UNIT	QUANTITY
72000100	SIGN PANEL-TYPE 1	SOFT	7
72000200	SIGN PANEL-TYPE 2	SOFT	42
81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA	FOOT	123
81028340	UNDERGROUND CONDUIT, PVC, 1-1/2" DIA	FOOT	30
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	62
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
85700200	FULL-ACTUATED CONTROLLER CABINET TYPE IV	EACH	1
86300400	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3C	FOOT	210
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5C	FOOT	856
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7C	FOOT	305
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN NO 14 1 PAIR	FOOT	129
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 2C	FOOT	58
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO 6 1C	FOOT	96
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	1
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT	EACH	2
87601100	PEDESTRIAN PUSH-BUTTON POST, GALVANIZED STEEL, TYPE I	EACH	3
87702940	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT	EACH	1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
87900200	DRILL EXISTING HANDHOLE	EACH	3
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	2
88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1

CODE	ITEM	UNIT	QUANTITY
88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	7
88500100	INDUCTIVE LOOP DETECTOR	EACH	8
88600100	DETECTOR LOOP, TYPE I	FOOT	561
89500120	REMOVE EXISTING SERVICE INSTALLATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	689
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
X8050115	SERVICE INSTALLATION TYPE A (MODIFIED)	EACH	1
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4

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	DRAWN -	REVISED -
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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF BROADWAY & IL 121  
BILL OF MATERIALS**

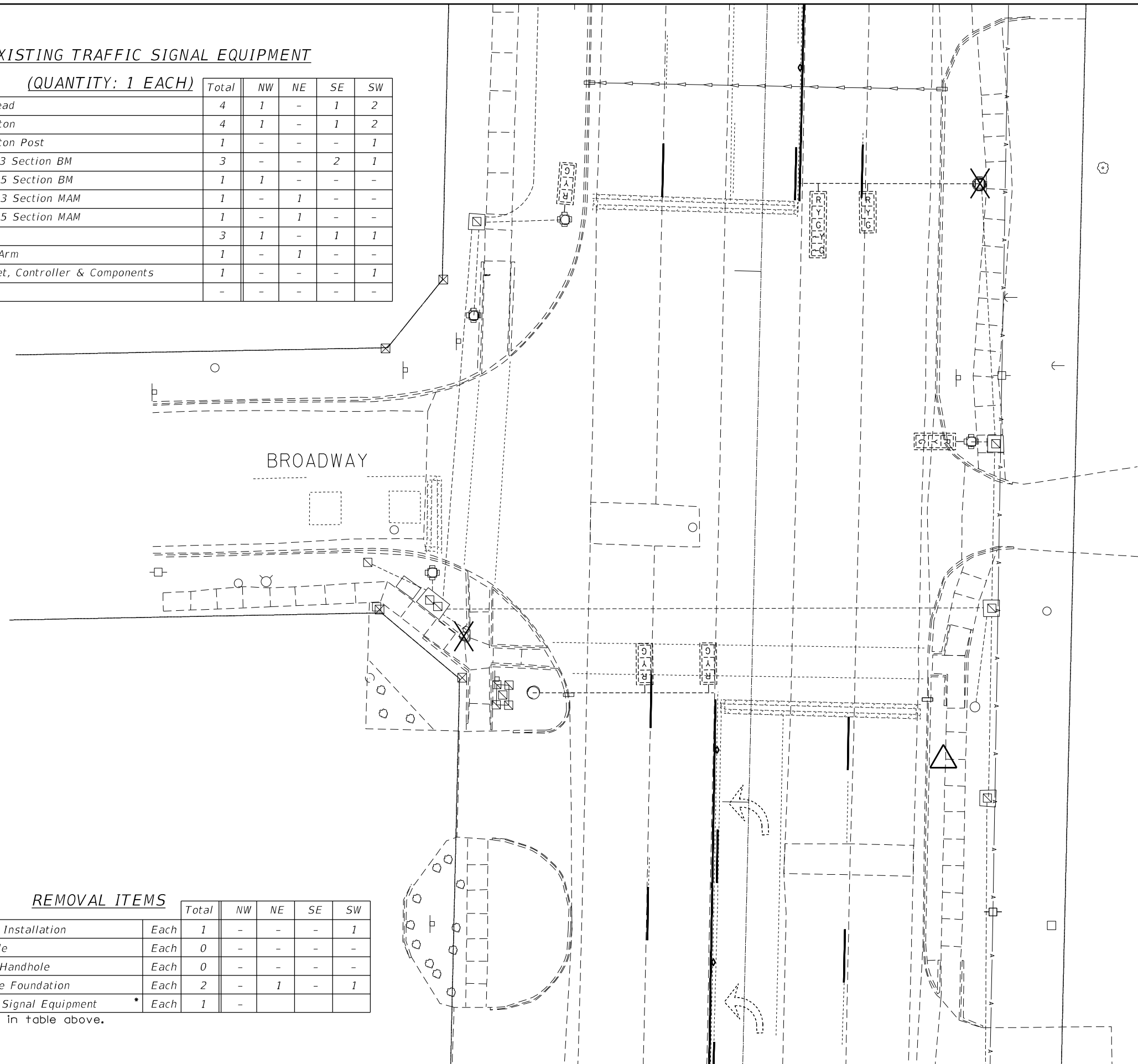
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	135
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**

(QUANTITY: 1 EACH)

	Total	NW	NE	SE	SW
Pedestrian Signal Head	4	1	-	1	2
Pedestrian Push-Button	4	1	-	1	2
Pedestrian Push Button Post	1	-	-	-	1
Traffic signal Head-3 Section BM	3	-	-	2	1
Traffic Signal Head-5 Section BM	1	1	-	-	-
Traffic Signal Head-3 Section MAM	1	-	1	-	-
Traffic Signal Head-5 Section MAM	1	-	1	-	-
Traffic Signal Post	3	1	-	1	1
Traffic Signal Mast Arm	1	-	1	-	-
Traffic Signal Cabinet, Controller & Components	1	-	-	-	1
Gulfbay Junction	-	-	-	-	-



**REMOVAL ITEMS**

	Total	NW	NE	SE	SW
Remove Existing Service Installation	Each 1	-	-	-	1
Remove Existing Handhole	Each 0	-	-	-	-
Remove Existing Double Handhole	Each 0	-	-	-	-
Remove Existing Concrete Foundation	Each 2	-	1	-	1
Remove Existing Traffic Signal Equipment	Each 1	-	-	-	-

\* See individual items in table above.

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PLOT DATE	2/22/2022	CHECKED	-	REVISED-	
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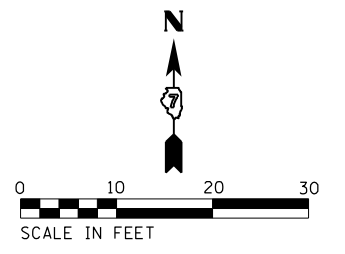
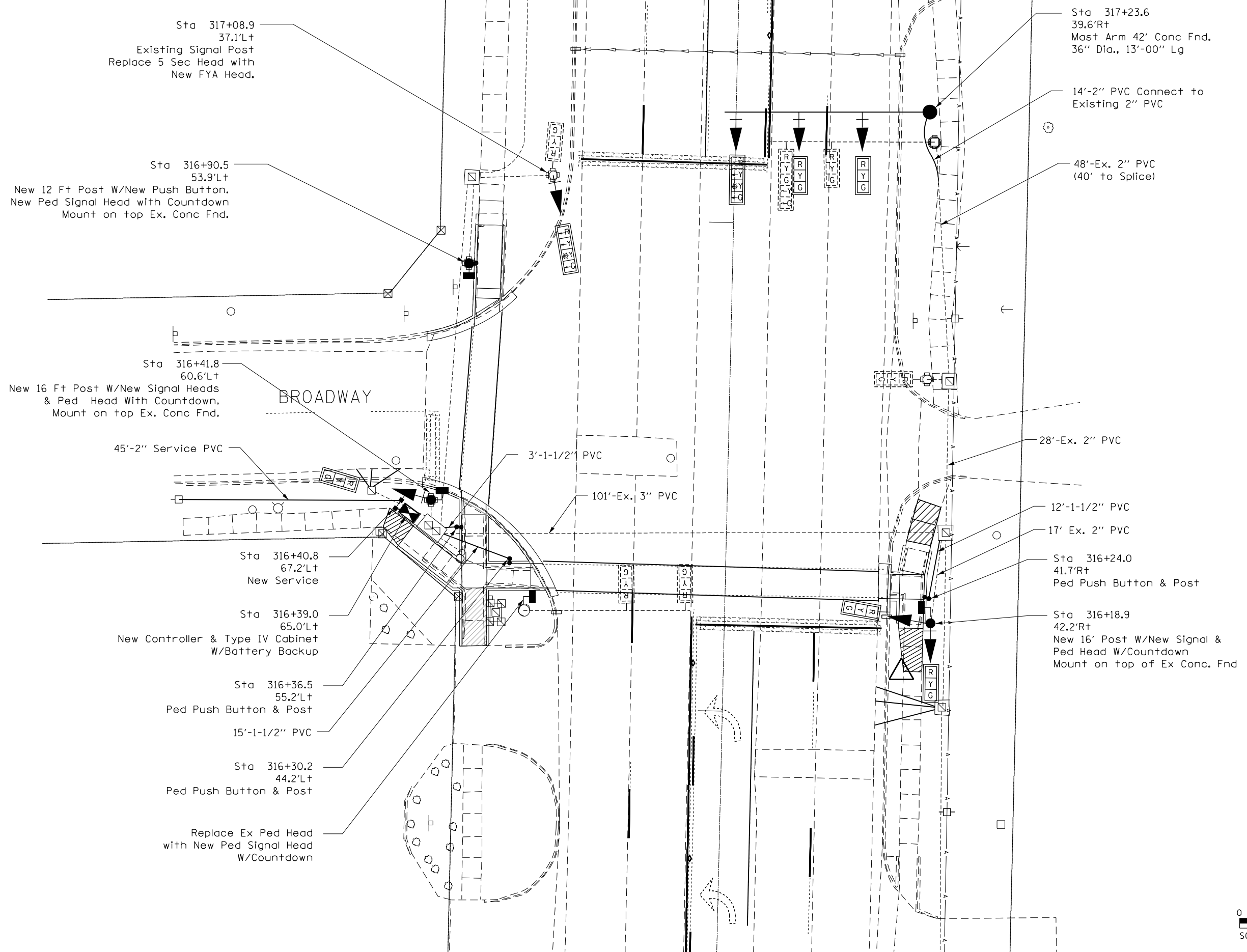
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**INTERSECTION OF BROADWAY & IL 121**  
**REMOVAL ITEMS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
320	10IRS-2	MACON	148 136
			CONTRACT NO. 74739
ILLINOIS AID PROJECT			





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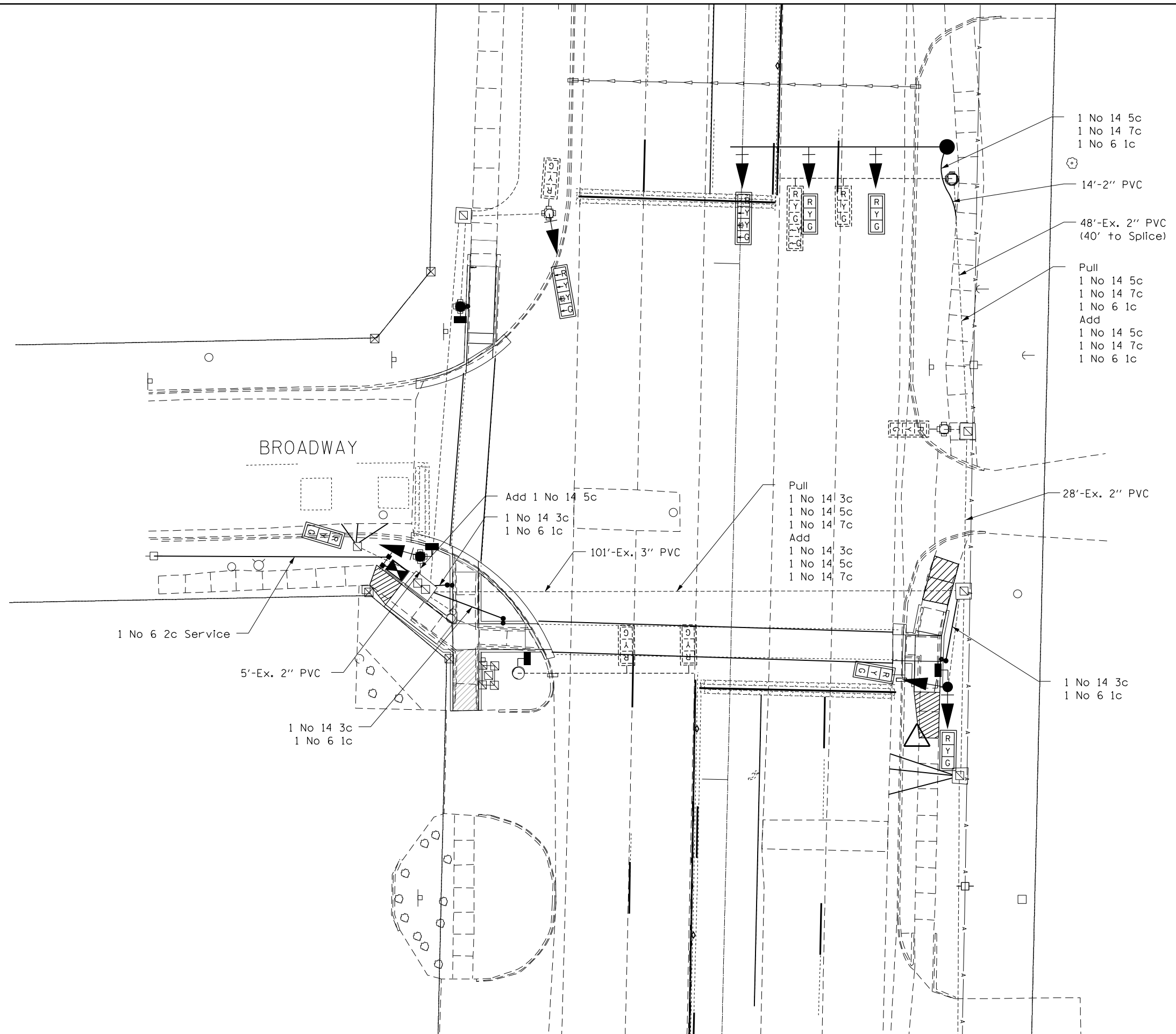
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PLOT DATE = 12/22/2022	DATE -	REVISED -

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

<b>INTERSECTION OF BROADWAY &amp; IL 121</b>	
<b>SIGNAL LAYOUT</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	137
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

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 USER: jhille  
 TITLE: INTERSECTION OF BROADWAY & IL 121  
 SHEET: 138



1 No 14 5c  
 1 No 14 7c  
 1 No 6 1c  
 14'-2" PVC  
 48'-Ex. 2" PVC  
 (40' to Splice)  
 Pull  
 1 No 14 5c  
 1 No 14 7c  
 1 No 6 1c  
 Add  
 1 No 14 5c  
 1 No 14 7c  
 1 No 6 1c

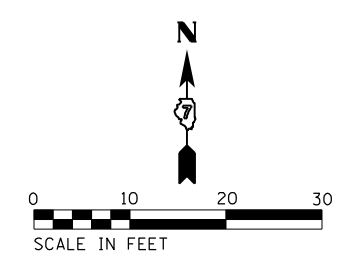
Add 1 No 14 5c  
 1 No 14 3c  
 1 No 6 1c  
 101'-Ex. 3" PVC  
 Pull  
 1 No 14 3c  
 1 No 14 5c  
 1 No 14 7c  
 Add  
 1 No 14 3c  
 1 No 14 5c  
 1 No 14 7c

28'-Ex. 2" PVC  
 1 No 14 3c  
 1 No 6 1c

1 No 6 2c Service  
 5'-Ex. 2" PVC  
 1 No 14 3c  
 1 No 6 1c

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF BROADWAY & IL 121  
 CABLE LAYOUT**



USER NAME = Jessica.Hille	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 12/22/2022	DATE -	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	138
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

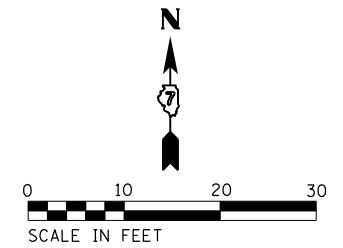
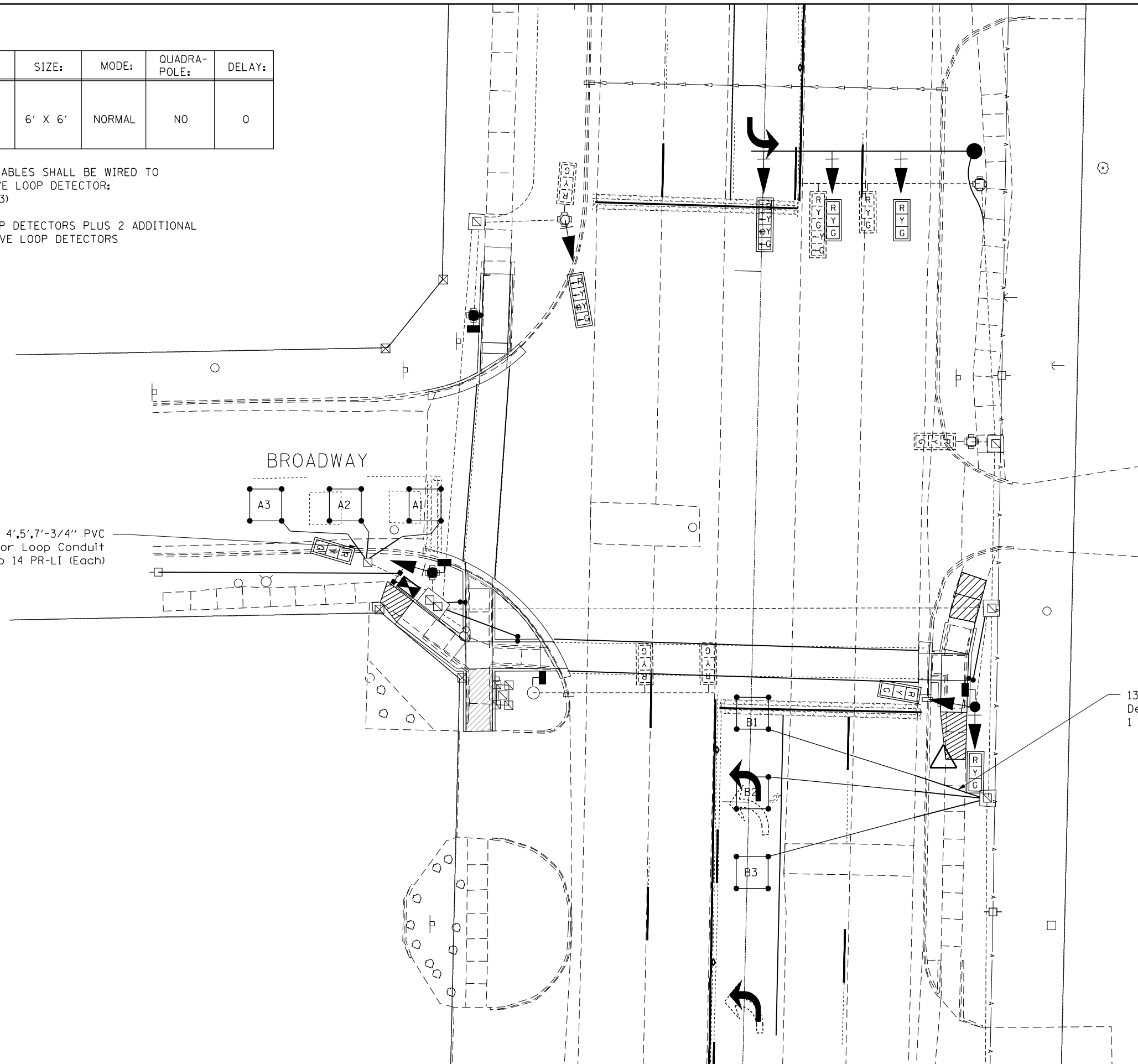
LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
A1,A2,A3,B1,B2,B3	6' X 6'	NORMAL	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(A1,A2,A3),(B1,B2,B3)

2 INDUCTIVE LOOP DETECTORS PLUS 2 ADDITIONAL  
TOTAL 4 INDUCTIVE LOOP DETECTORS

4',5',7'-3/4" PVC  
Detector Loop Conduit  
1 No 14 PR-LI (Each)

13',13',13'-3/4" PVC  
Detector Loop Conduit  
1 No 14 PR-LI (Each)



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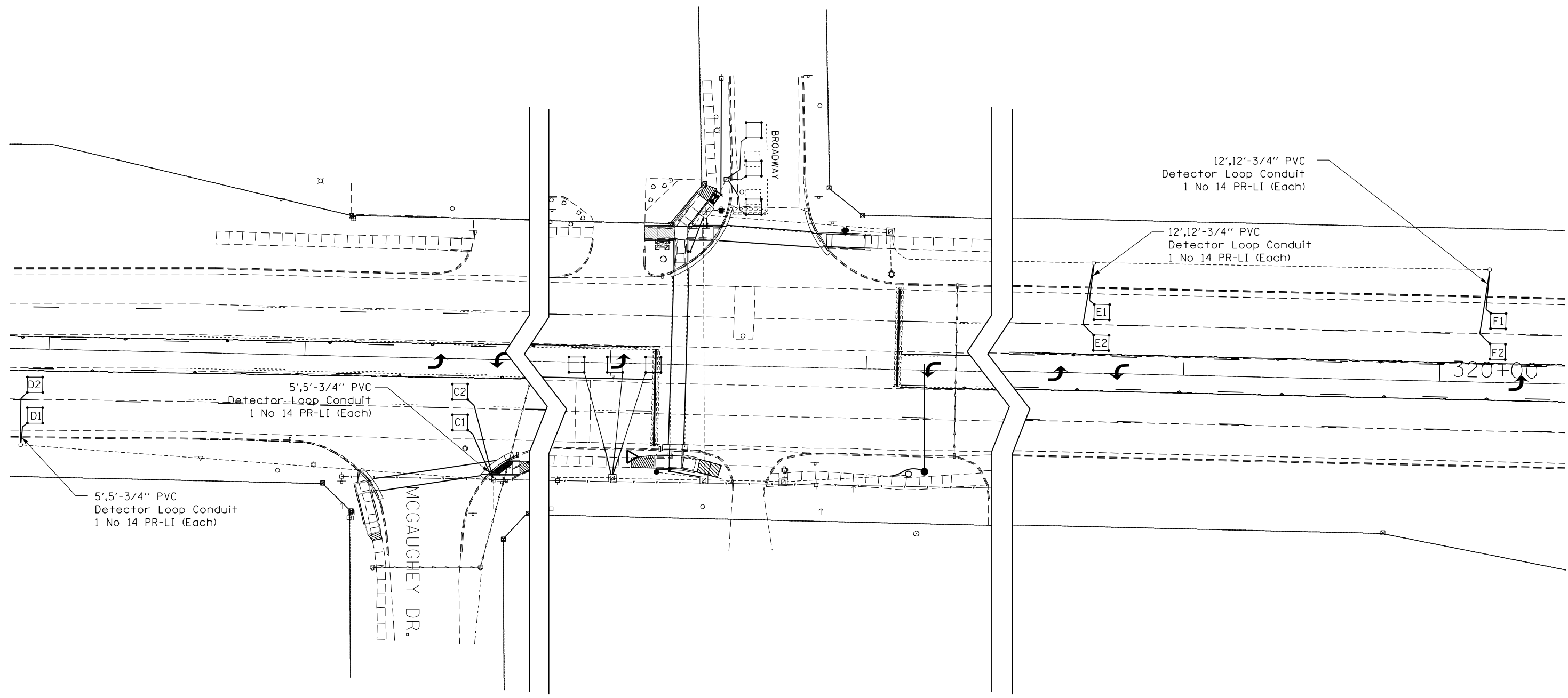
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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION OF BROADWAY & IL 121  
DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

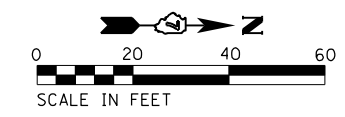
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	139
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



LOOP:	SIZE:	MODE:	QUADRA-POLE:	DELAY:
(C1,C2),(D1,D2) (E1,E2),(F1,F2)	6' X 6'	EXTENDED	NO	0

THE FOLLOWING CABLES SHALL BE WIRED TO COMMON INDUCTIVE LOOP DETECTOR:  
(C1,C2),(D1,D2),(E1,E2),(F1,F2)

4 INDUCTIVE LOOP DETECTORS PLUS 0 ADDITIONAL  
TOTAL 4 INDUCTIVE LOOP DETECTORS



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

**INTERSECTION OF BROADWAY & IL 121**  
**ADVANCED DETECTOR LOOPS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	140
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

ROUTE FAP 320 (IL 121) DESCRIPTION Intersection of Broadway and IL 121 LOGGED BY E. Sandschafer

SECTION 101RS-2 LOCATION Northeast Corner, SEC. 3, TWP. 15N, RNG. 3E, 3rd PM,  
Latitude 39.774019 N, Longitude 88.870405 W

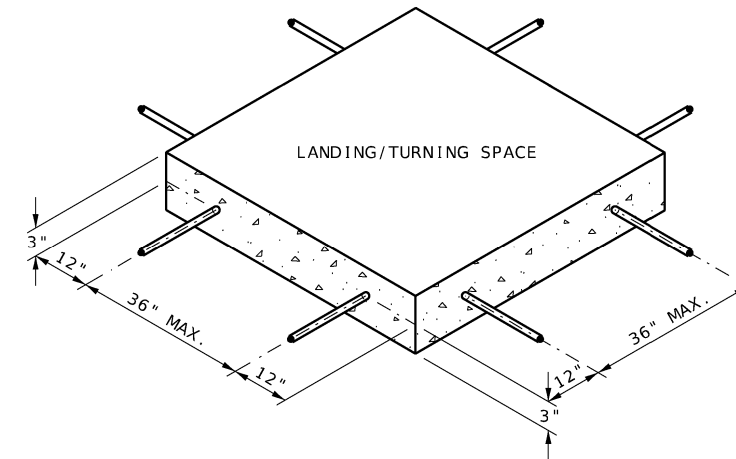
COUNTY Macon DRILLING METHOD Hollow stem auger & split spoon HAMMER Auto ETR = 91.8% @ 57.4 bpm

STRUCT. NO. Traffic Signal D E L C U M  
Station 317+23.6, 39.6' RT P O S I  
BORING NO. 1 (Broadway) T W S  
Station 317+20 H S Qu T  
Offset 27.0 ft RT  
Ground Surface Elev. 682.97 ft (ft) (/6") (tsf) (%)

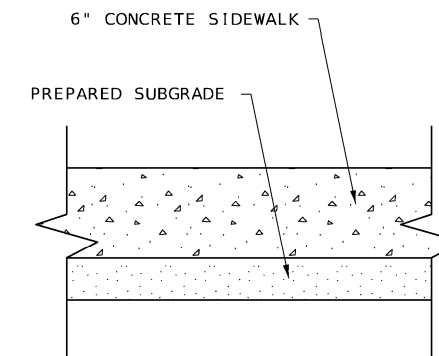
Surface Water Elev. NA ft D E L C U M  
Stream Bed Elev. NA ft P O S I  
Groundwater Elev.:  
First Encounter None ft H S Qu T  
Upon Completion None ft  
After NT Hrs. NT ft (ft) (/6") (tsf) (%)

Topsoil, Organics				Stiff, moist, grey, CLAY LOAM	661.97	2	1.6	13
				Benchmark: Top of Cabinet Foundation in Southwest Quadrant of IL 121 (Mt Zion Road) and Broadway. Elevation = 669.43 feet. End of Boring				
Medium, moist, brown, CLAY LOAM	680.97	1						
		2	0.7					
		2	B					
		-5	1					
			1					
			3	0.6				18
			2	B				
Very stiff								
			1					
			3	2.1				15
			5	B				
			1					
			5	2.9				13
			9	B				
Grey								
			1					
			3	2.1				13
			4	B				
Stiff								
			1					
			2	1.4				14
			4	B				
			1					
			4	1.4				14
			3	B				
			1					
			4	1.4				14
			3	B				
			1					
			4	1.4				14
			3	B				
			1					
			4	1.4				14
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			1					
			4	1.4				14
			3	B				
			1					
			4	1.4				14
			3	B				
			1					
			4	1.4				

NOTE: TIE BARS SHALL BE OMITTED BETWEEN PROPOSED LANDING/TURNING SPACES AND PROPOSED TRANSITIONAL SEGMENTS.



SIDEWALK REINFORCEMENT



TYPICAL SIDEWALK SECTION WITHIN INTERSECTION CORNER

REV. - MS

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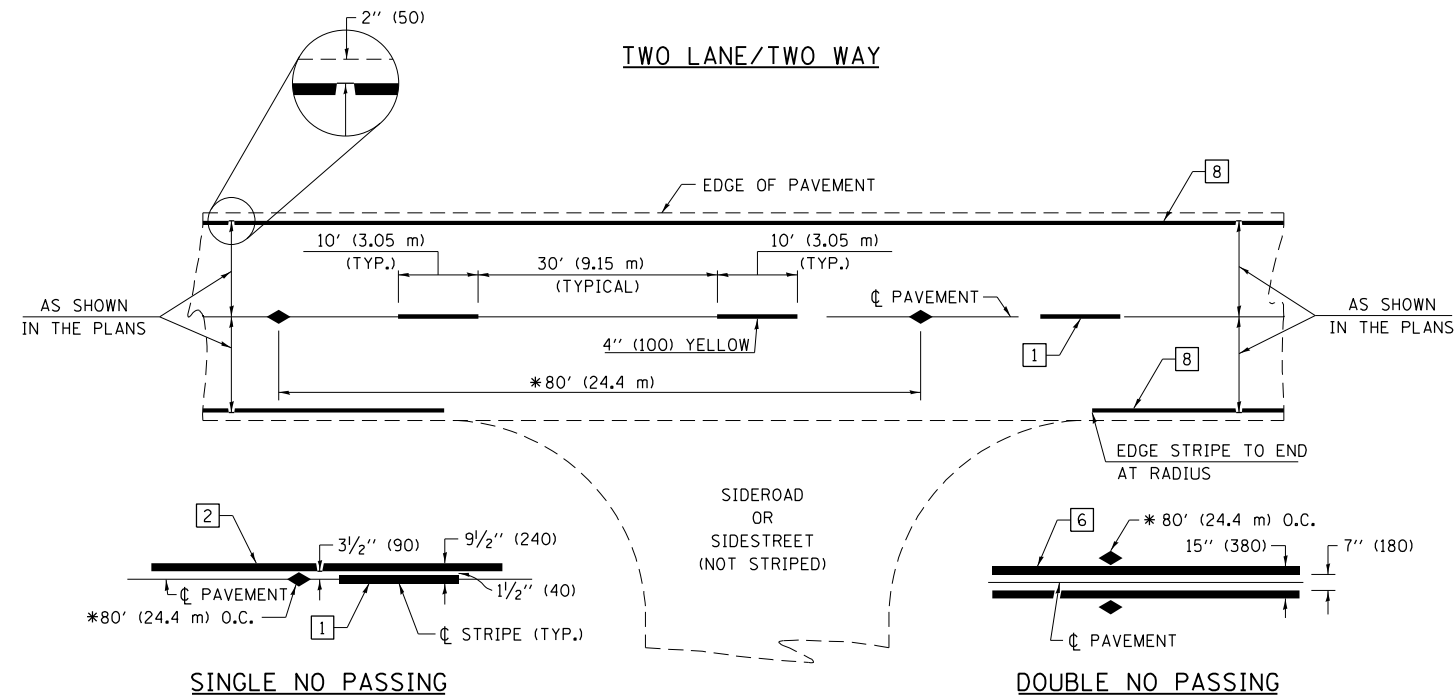
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PLOT DATE = 12/22/2022	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

**ADA DETAILS**

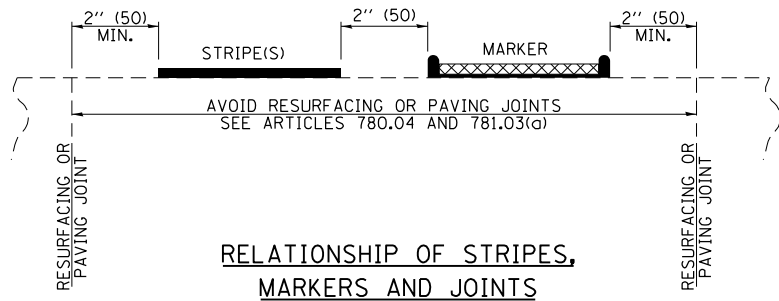
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	101RS-2	MACON	148	142
CONTRACT NO. 74739			ILLINOIS FED. AID PROJECT	



**PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

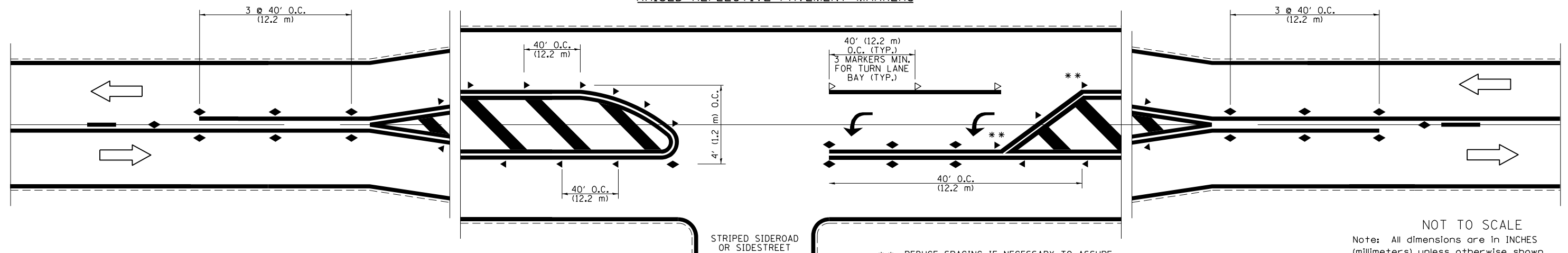
\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.



**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

**RAISED REFLECTIVE PAVEMENT MARKERS**



\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 7 DETAIL NO. 7800001**

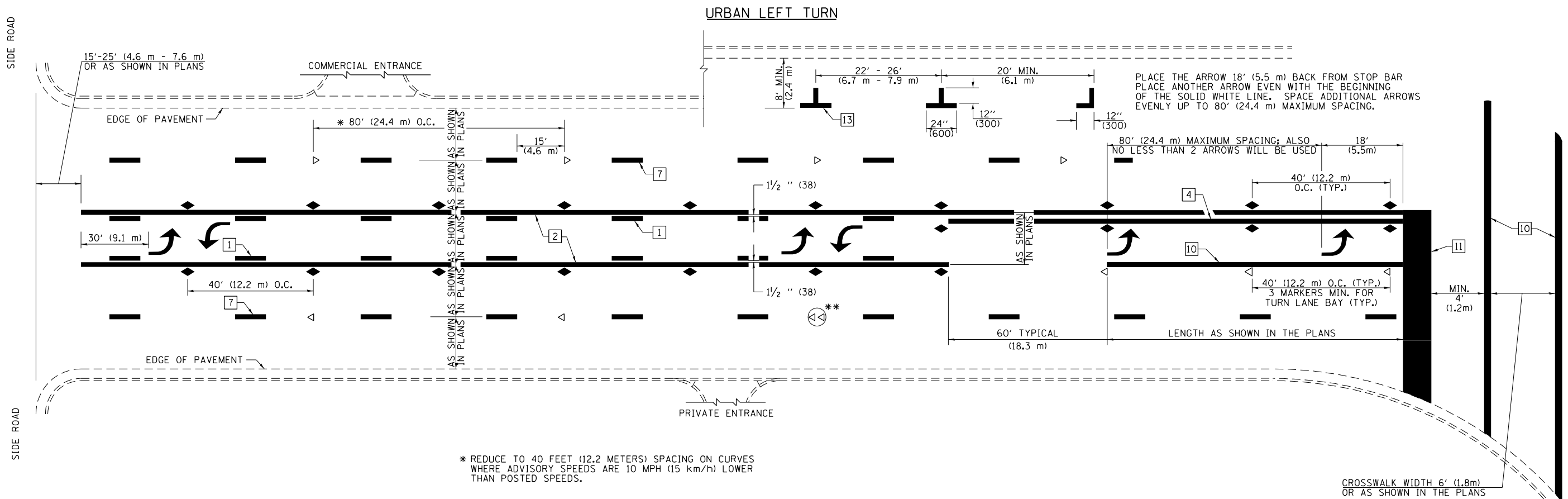
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		DATE -	REVISED -
PLOT SCALE = 100.0000' / in.			
PLOT DATE = 12/22/2022			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	10IRS-2	MACON	148	143
				CONTRACT NO. 74739
ILLINOIS FED. AID PROJECT				



\* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

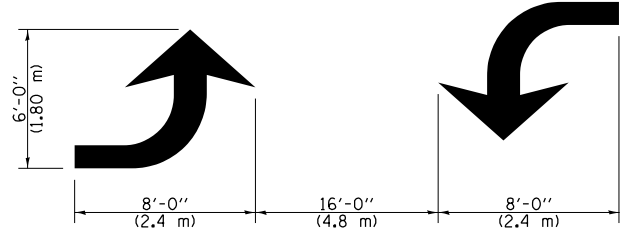
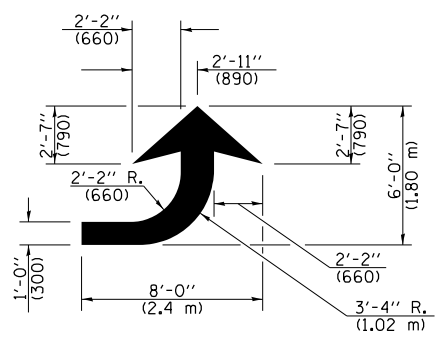
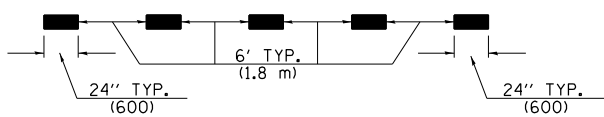
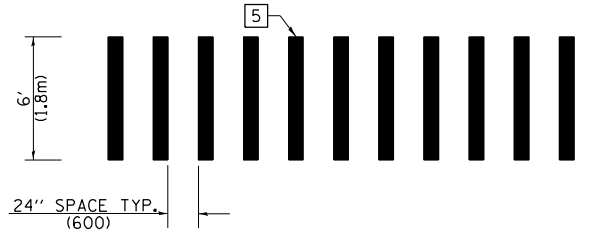
\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

**PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 4" (100) DOUBLE YELLOW (WIDE)
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

**GENERAL NOTES**

1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE SECTION 780 FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.
6. ALL WHITE SKIP-DASH LINES SHALL BE 6" IN WIDTH.



**LANE LINE EXTENSIONS**

**LEFT ARROW**

REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)

**TYPICAL DOUBLE TURN ARROWS (WHITE)**

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

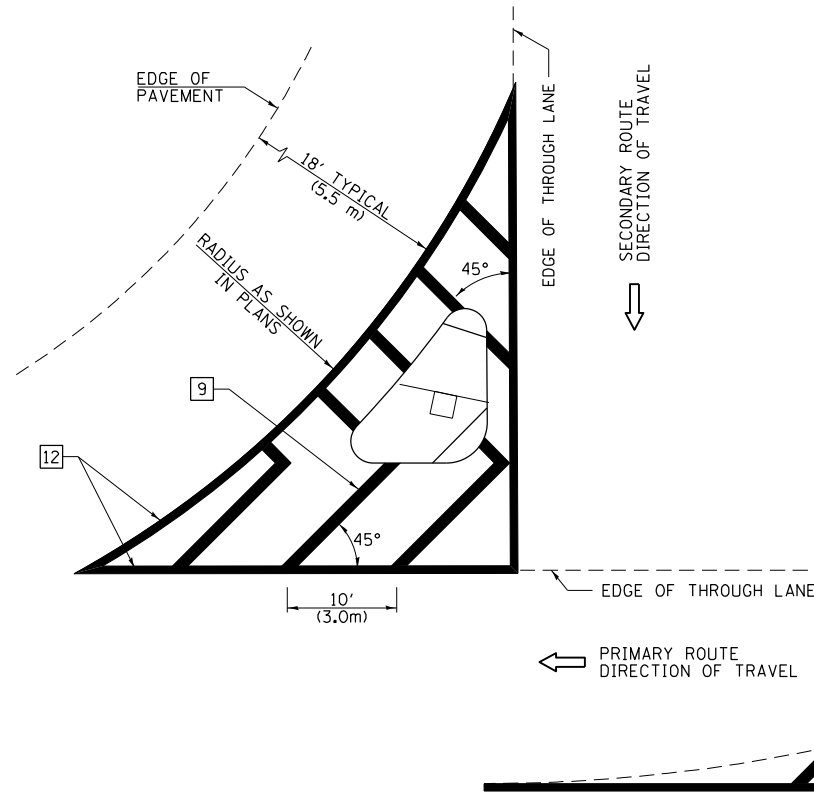
**DISTRICT 7 DETAIL NO. 7800001**

FILE NAME =	USER NAME = Jessica.Hille	DESIGNED -	REVISED - NAS 06/22	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74739\CADD\Drawings\74739-sht-details.dgn	DRAWN	REVISOR -	REVISOR -			320	10IRS-2	MACON	148	144
PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISOR -	REVISOR -			CONTRACT NO. 74739				
PLOT DATE = 12/22/2022	DATE -	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT				



**ISLANDS**

**OPTION 1**

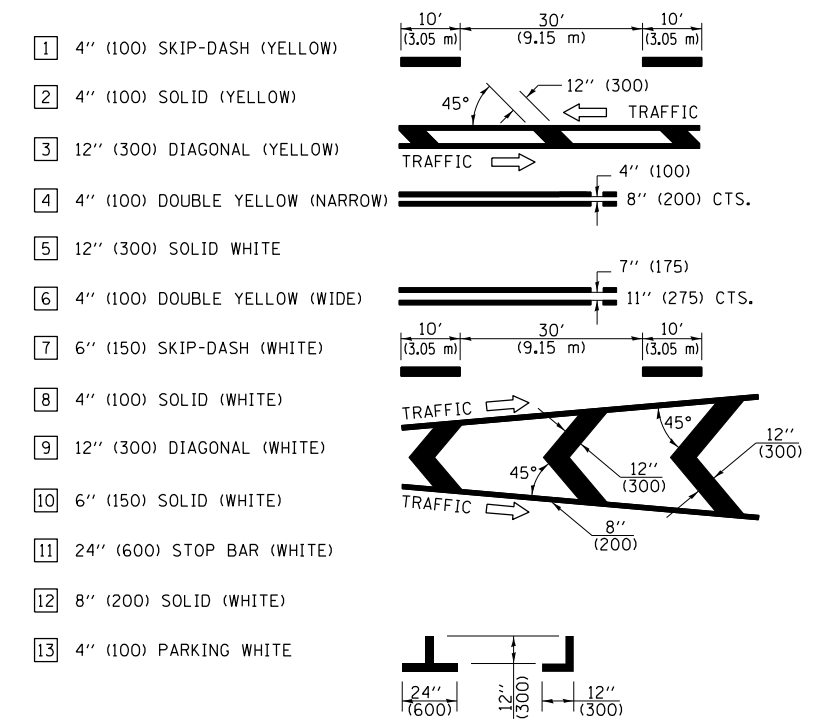


**GENERAL NOTES**

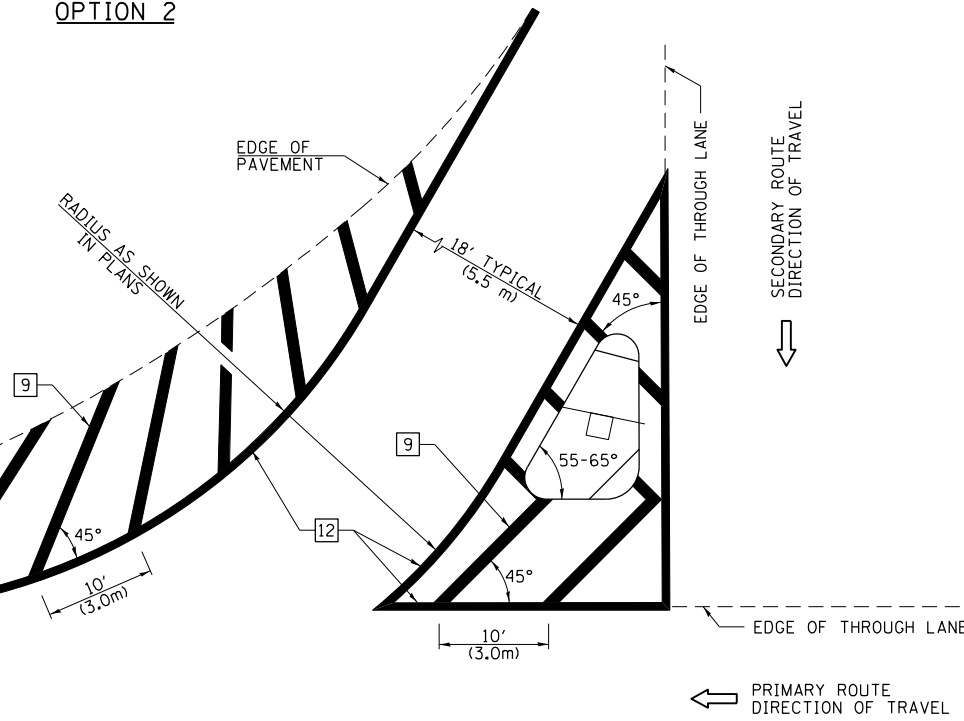
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2].
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:
 

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)
6. THE USE OF ISLAND STRIPING OPTION 1 OR OPTION 2 SHALL BE AS SHOWN ON THE PLANS.

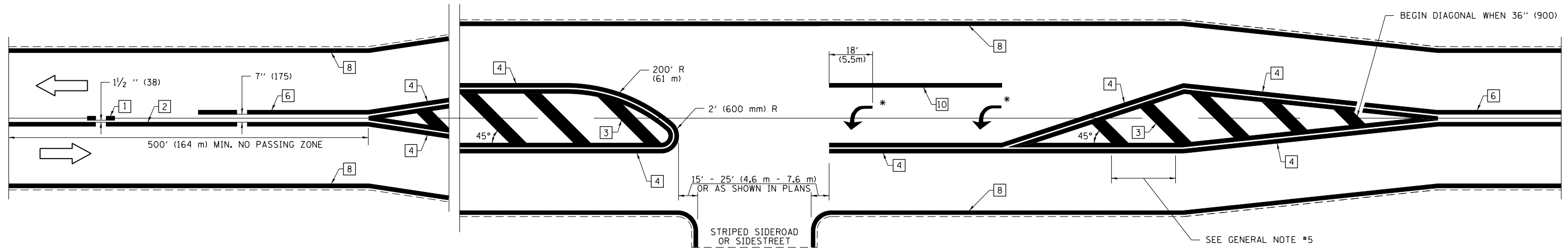
**PAVEMENT MARKING LEGEND**



**OPTION 2**



**RURAL LEFT TURN STRIPING**



\* PLACE AN ARROW 18' (5.5 m) BACK FROM END OF THE SOLID WHITE LINE. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 7 DETAIL NO. 7800001**

FILE NAME =	USER NAME = Jessica.Hille	DESIGNED -	REVISED - NAS 06/22
pw:\idot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74739\CADD\Drawings\Drawings\74739-shd-details.dgn		CHECKED -	REVISED -
PLOT SCALE = 100.0000' / 1" =		DATE -	REVISED -
PLOT DATE = 12/22/2022			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

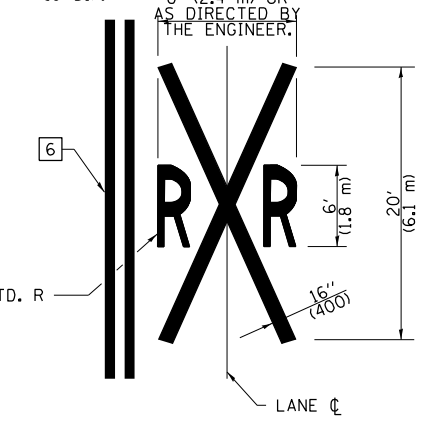
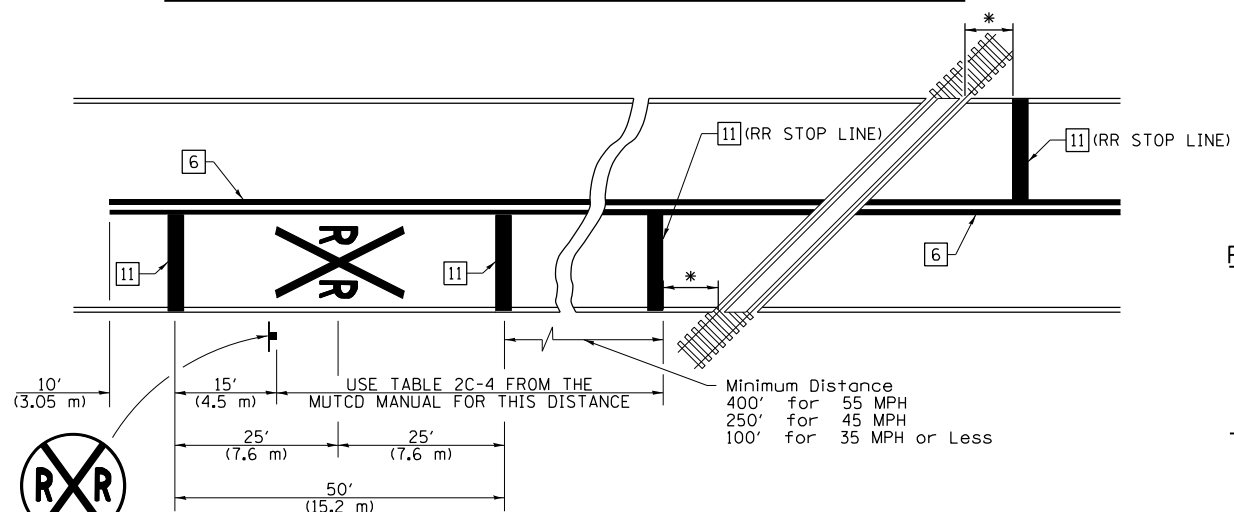
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	10IR5-2	MACON	148	145
CONTRACT NO. 74739				
ILLINOIS FED. AID PROJECT				

# SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

## PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
  - 2 4" (100) SOLID (YELLOW)
  - 3 12" (300) DIAGONAL (YELLOW)
  - 4 4" (100) DOUBLE YELLOW (NARROW)
  - 5 12" (300) SOLID WHITE
  - 6 4" (100) DOUBLE YELLOW (WIDE)
  - 7 6" (150) SKIP-DASH (WHITE)
  - 8 4" (100) SOLID (WHITE)
  - 9 12" (300) DIAGONAL (WHITE)
  - 10 6" (150) SOLID (WHITE)
  - 11 24" (600) STOP BAR (WHITE)
  - 12 8" (200) SOLID (WHITE)
  - 13 4" (100) PARKING WHITE
- 

### PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



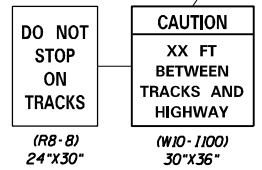
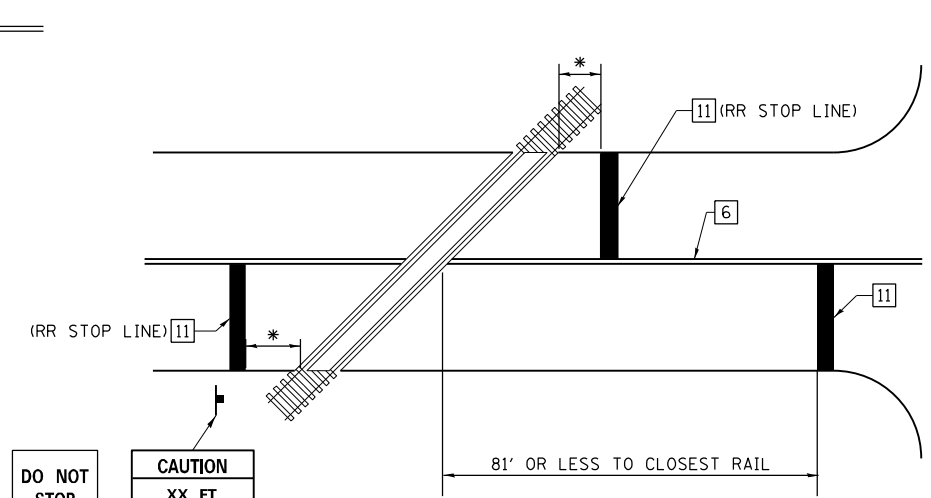
### NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

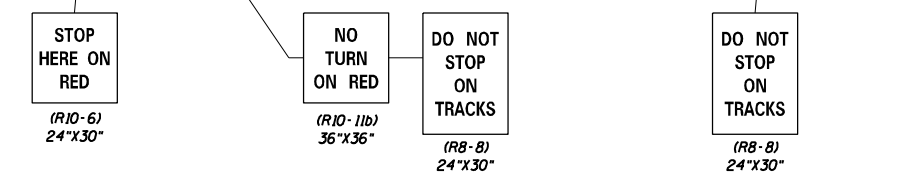
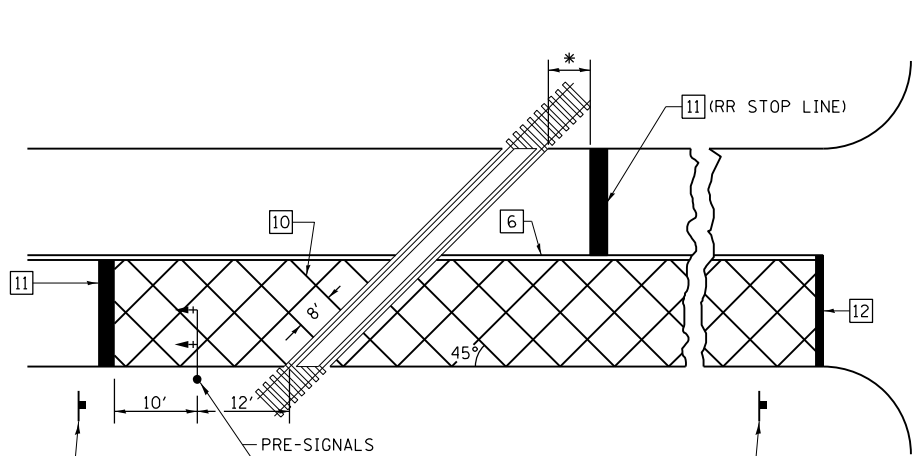
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RRR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

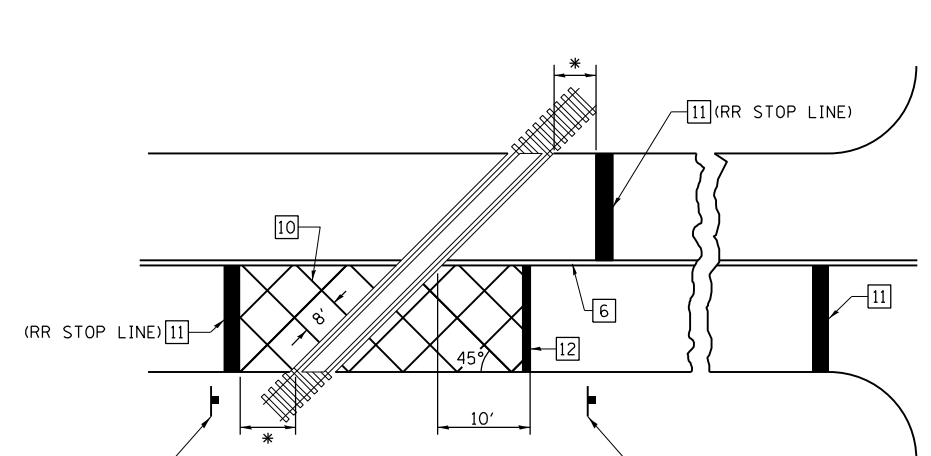
### RAILROAD CROSSING WITH NON-SIGNALIZED INTERSECTION



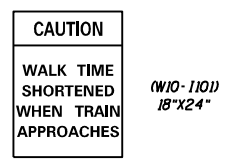
### RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



### RAILROAD CROSSING WITH INTERCONNECT ONLY



- ### GENERAL NOTES
- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
  - EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE PRE-SIGNALS ARE USED.
  - WHEN PEDESTRIAN SIGNALS ARE PRESENT WITH INTERCONNECTED SIGNALS, WARNING SIGN W10-1101 (18"X24") SHALL BE PLACED NEAR EACH PEDESTRIAN SIGNAL HEAD. COUNTDOWN PEDESTRIAN SIGNAL HEADS SHALL NOT BE UTILIZED ALONG WITH INTERCONNECTED SIGNALS.
  - PLEASE REFER TO THE IDOT BUREAU OF OPERATION MEMO OPS T-06 DATED DECEMBER 1, 2020 FOR ADDITIONAL INFORMATION.



- \* 15' FROM NEAR RAIL OR 8' FROM AND PARALLEL TO GATE IF PRESENT
- \*\* WARNING SIGN W10-1100 SHALL BE USED AS AN INTERIM MEASURE AT INTERCONNECTED SIGNAL LOCATIONS WHERE PRE-SIGNALS ARE TO BE INSTALLED IN THE FUTURE. THIS SIGN SHALL BE REMOVED WHEN THE PRE-SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS ARE EXTENDED TO THE INTERSECTION.

NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	10IRS-2	MACON	148	146
CONTRACT NO. 74739			ILLINOIS FED. AID PROJECT	

FILE NAME =	USER NAME = Jessica.Hille	DESIGNED -	REVISED - NAS 06/22
pw:\idot-pw\bentley.com\PIDOT\Documents\IDOT Offices\District 7\Projects\74739\CADD\Drawings\Drawings\74739-shd-details.dgn		CHECKED -	REVISED -
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -
PLOT DATE = 12/22/2022			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
(RURAL & URBAN APPLICATIONS)  
SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.