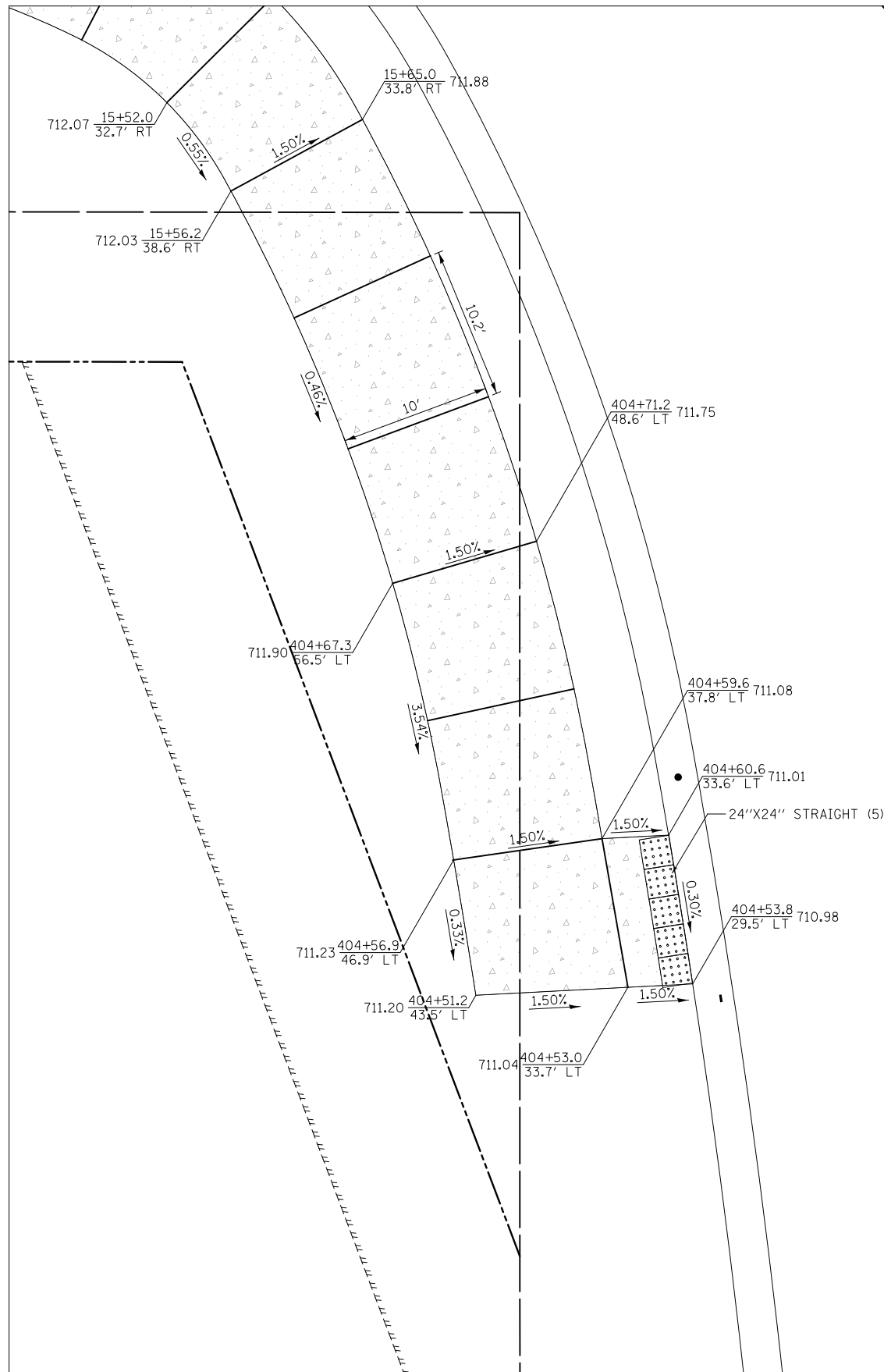




DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINIAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



SOUTHWEST CORNER CROSSWALK  
14TH STREET AND DUGDALE ROAD



SOUTHEAST CORNER CROSSWALK  
14TH STREET AND DUGDALE ROAD

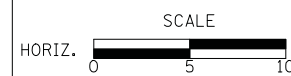
NOTE: THE DETECTABLE WARNING LAYOUT DESIGN IS BASED ON NEENAH FOUNDRY CAST IRON DETECTABLE WARNING PANELS. IF THE CONTRACTOR CHOSED TO USE A DIFFERENT MANUFACTURER OR A DIFFERENT LAYOUT, HE/SHE SHALL SUBMIT THE LAYOUT DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE PANELS. NO CUTTING OF THE PANELS SHALL BE ALLOWED.



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CHECKED	- JRV	REVISED	-
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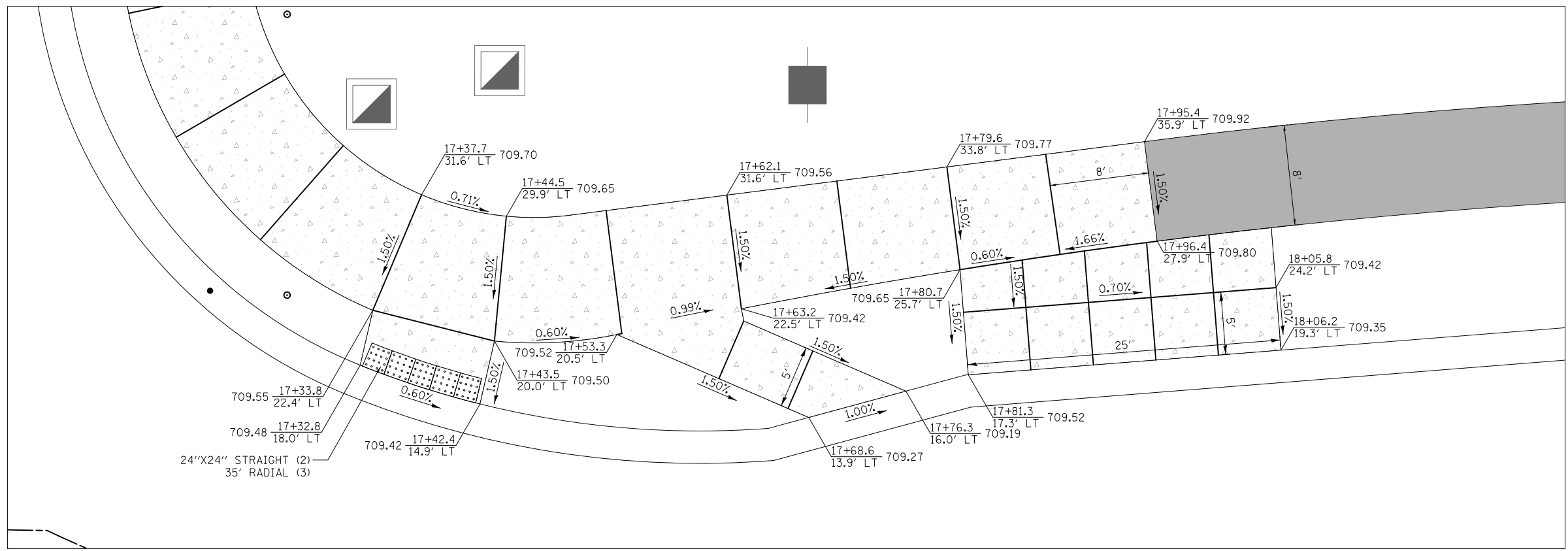
SIDEWALK RAMP DETAILS

SHEET NO. 7 OF 46 SHEETS STA. TO STA.

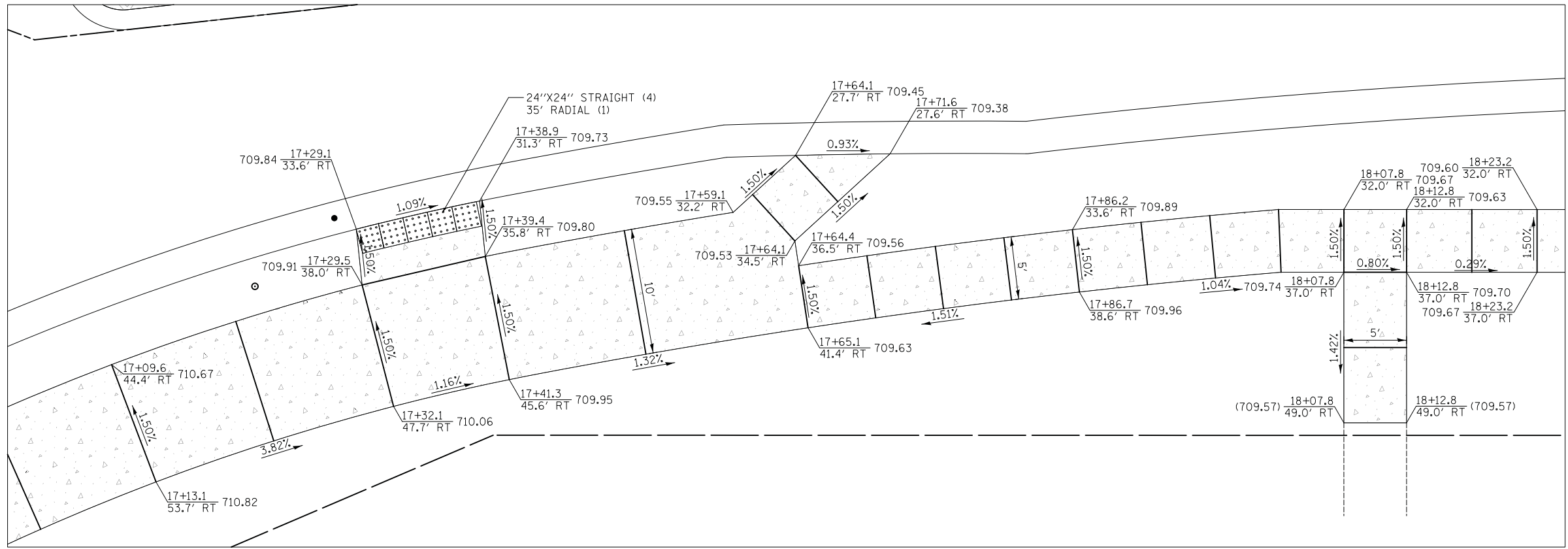
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	302
			CONTRACT NO. 61F33	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



NORTHEAST CORNER CROSSWALK  
14TH STREET AND DUGDALE ROAD



SOUTHEAST CORNER CROSSWALK  
14TH STREET AND DUGDALE ROAD

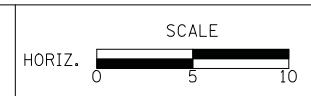
NOTE: THE DETECTABLE WARNING LAYOUT DESIGN IS BASED ON NEENAH FOUNDRY CAST IRON DETECTABLE WARNING PANELS. IF THE CONTRACTOR CHOSED TO USE A DIFFERENT MANUFACTURER OR A DIFFERENT LAYOUT, HE/SHE SHALL SUBMIT THE LAYOUT DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE PANELS. NO CUTTING OF THE PANELS SHALL BE ALLOWED.



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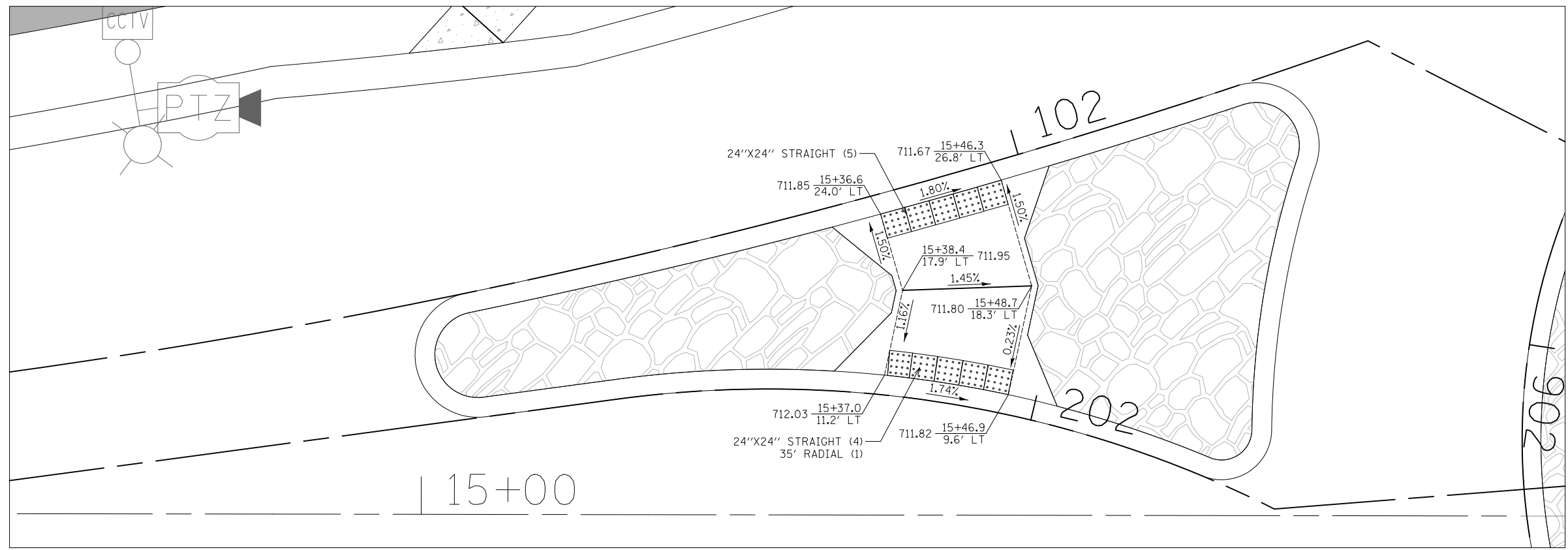


**SIDEWALK RAMP DETAILS**  
SHEET NO. 8 OF 46 SHEETS    STA.    TO STA.

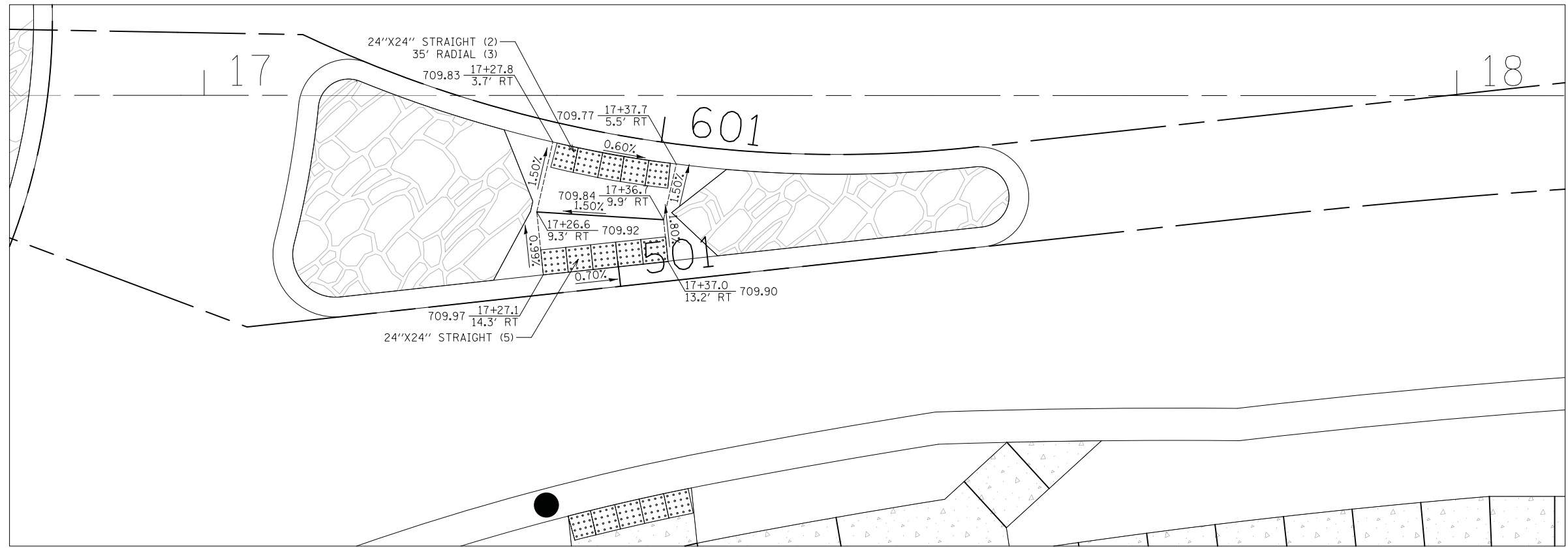
F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	303
				CONTRACT NO. 61F33
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



WEST MEDIAN ISLAND  
14TH STREET AND DUGDALE ROAD

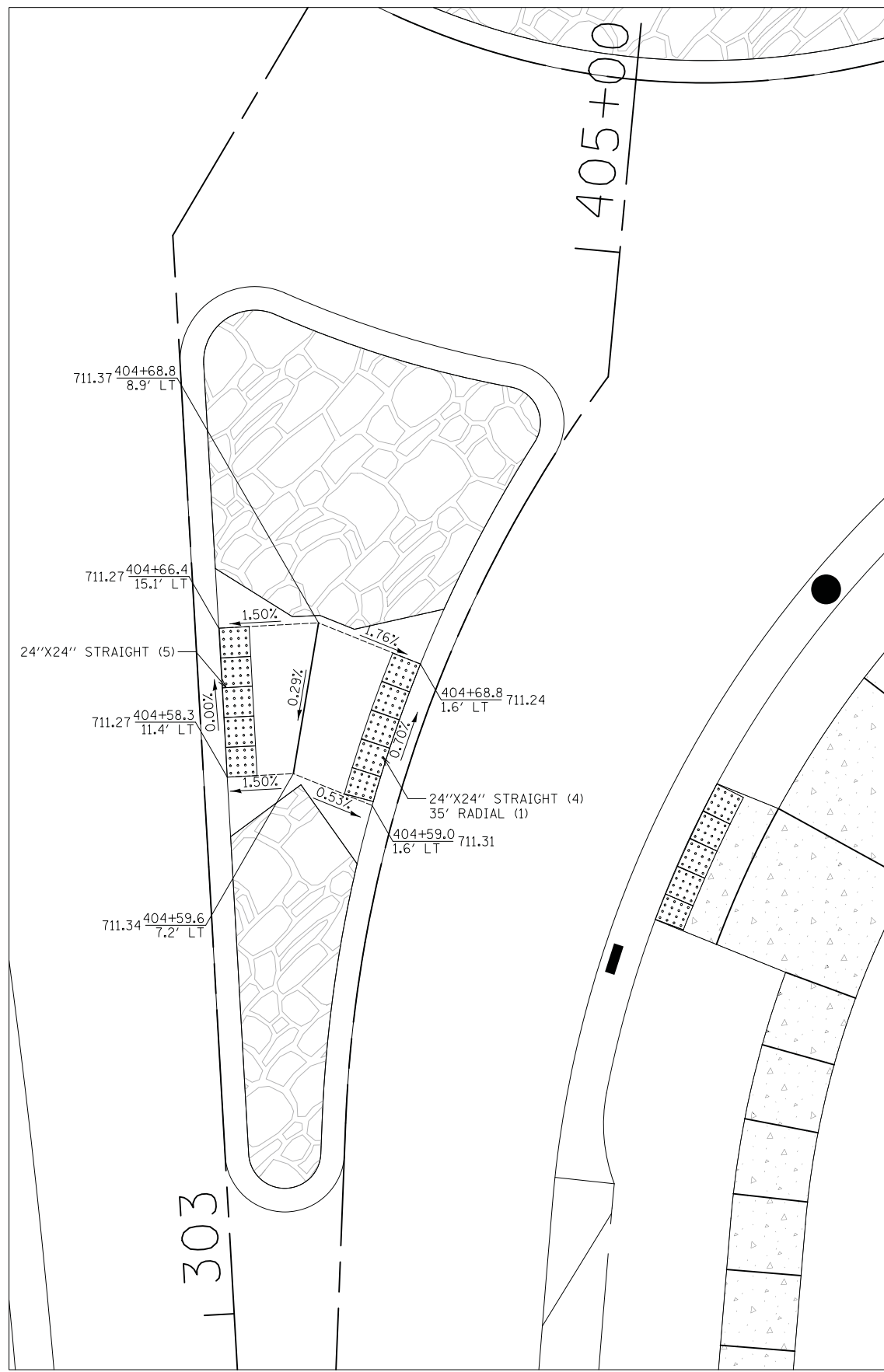


EAST MEDIAN ISLAND  
14TH STREET AND DUGDALE ROAD

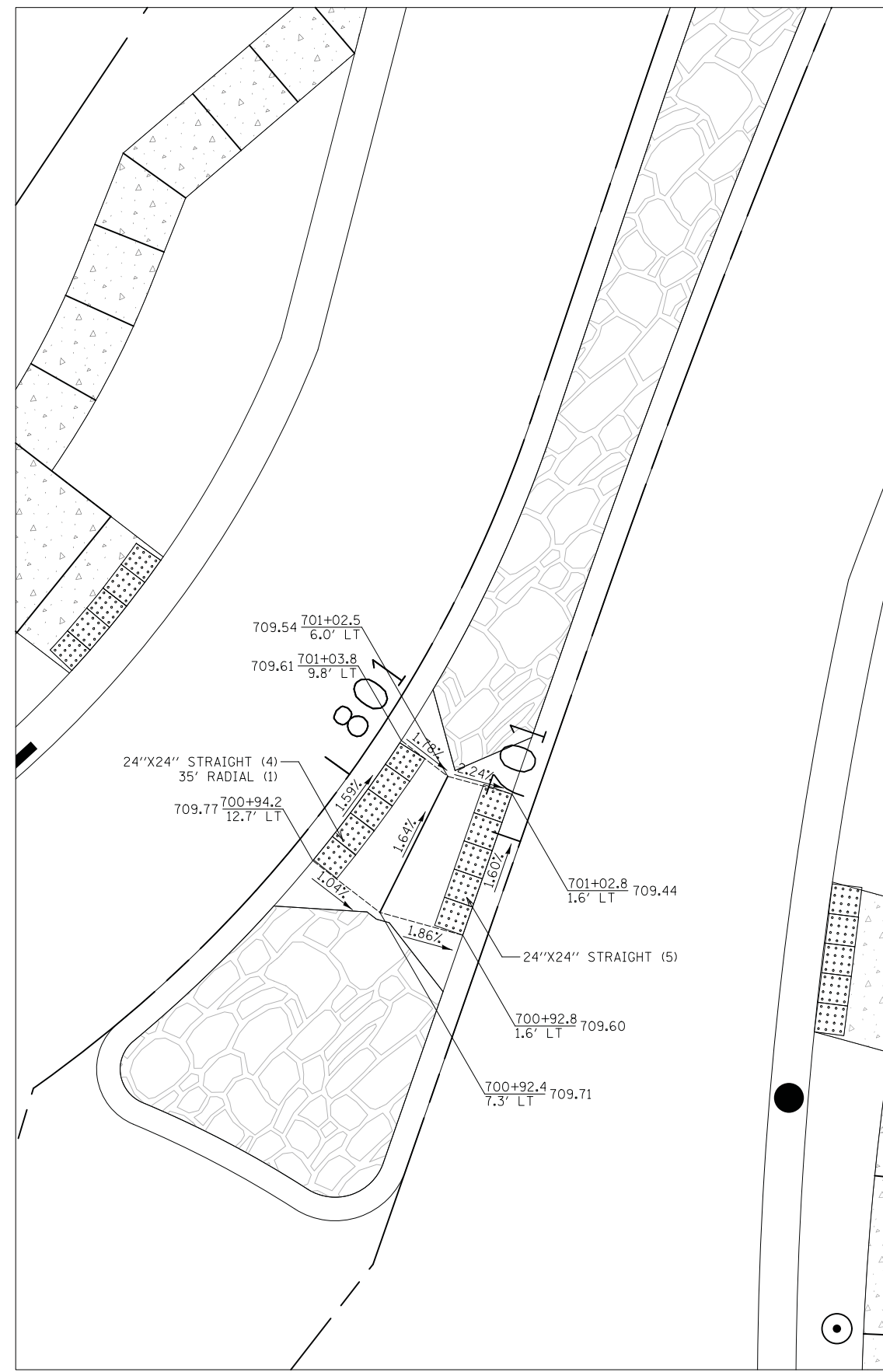


FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

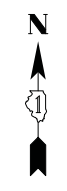
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



SOUTH MEDIAN ISLAND  
14TH STREET AND DUGDALE ROAD



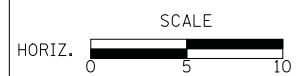
NORTH MEDIAN ISLAND  
14TH STREET AND DUGDALE ROAD



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DEPARTMENT OF TRANSPORTATION**



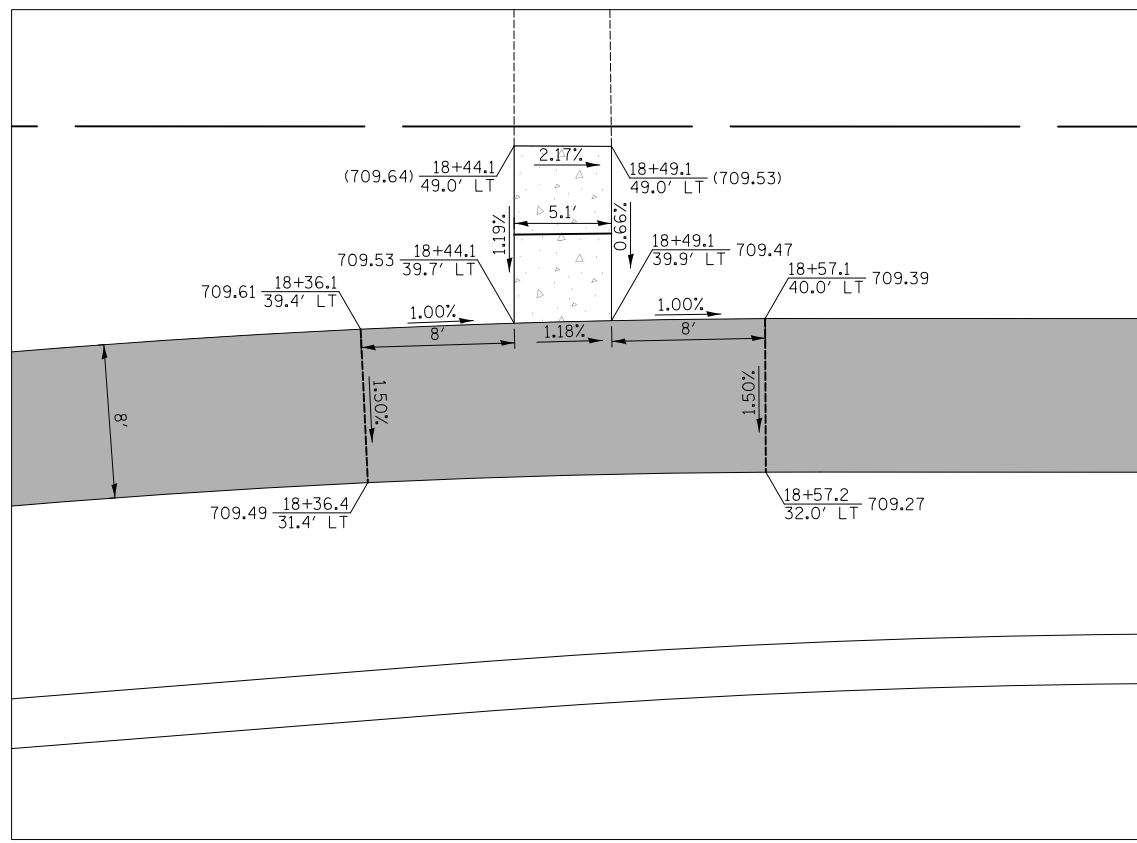
**SIDEWALK RAMP DETAILS**

SHEET NO. 10 OF 46 SHEETS STA. TO STA.

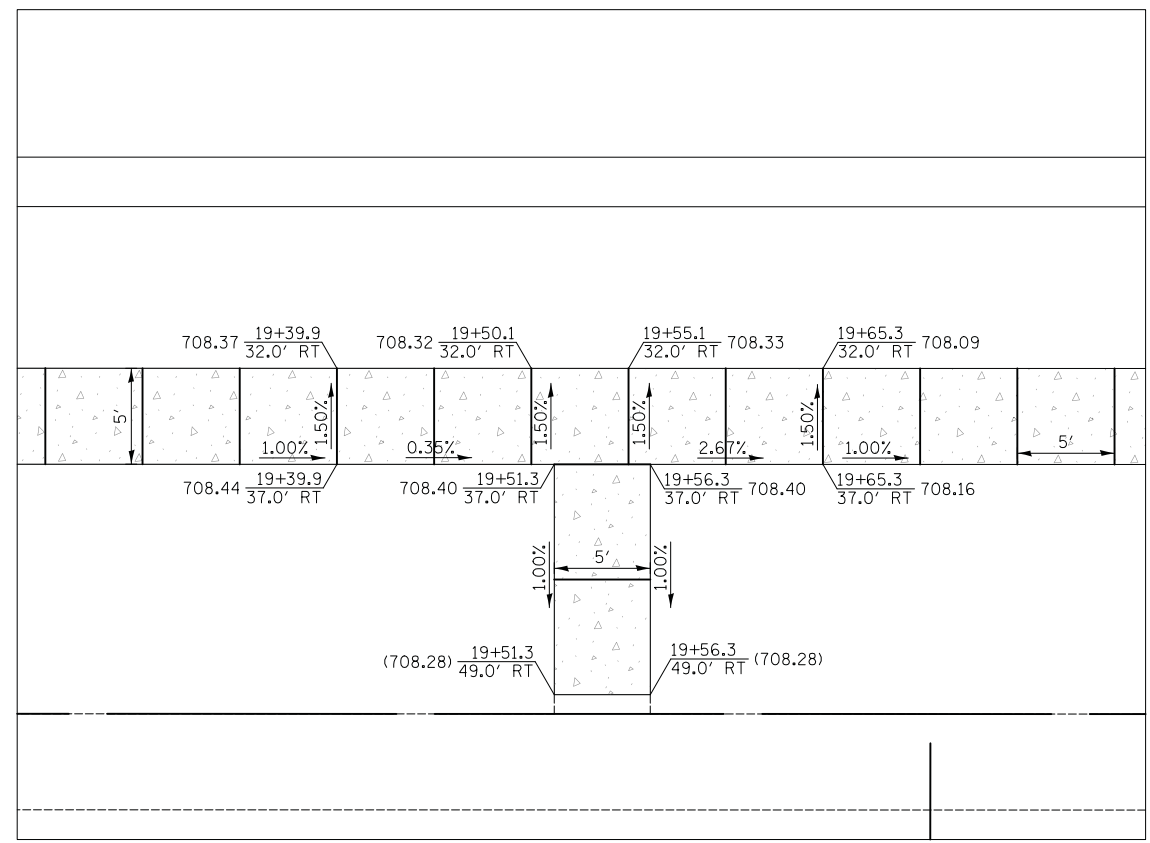
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	305
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

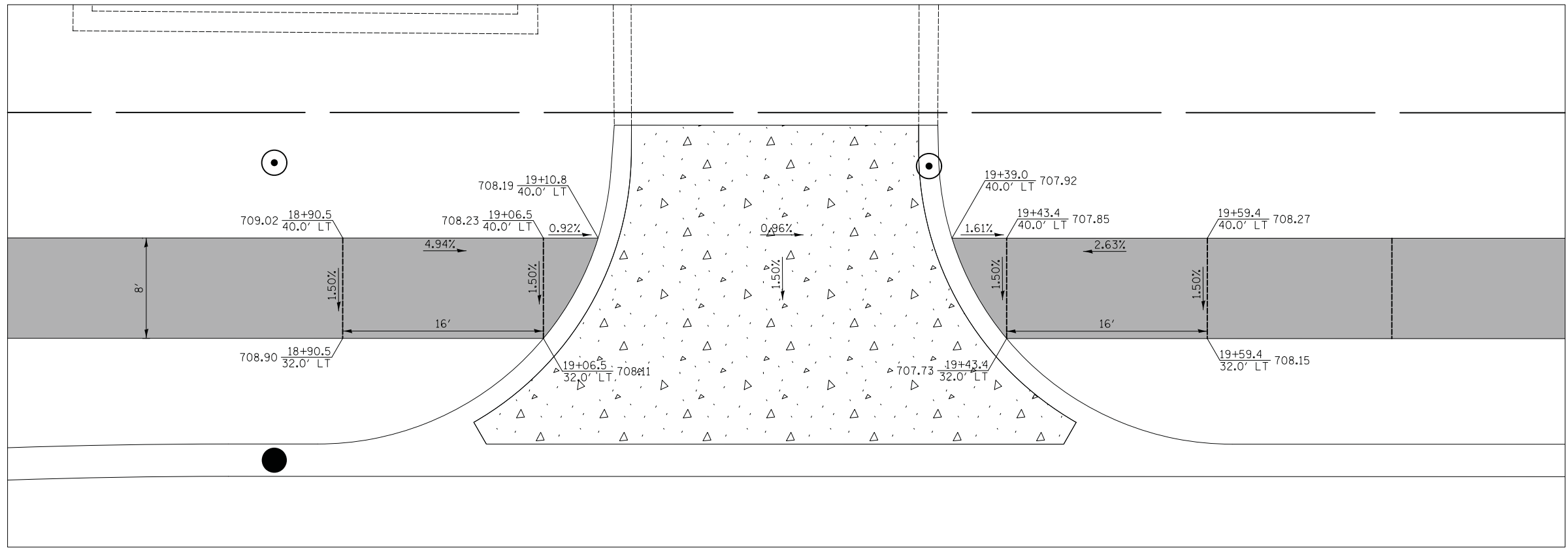
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



SIDEWALK AT STA. 18+47 LT



SIDEWALK AT STA. 19+19 RT

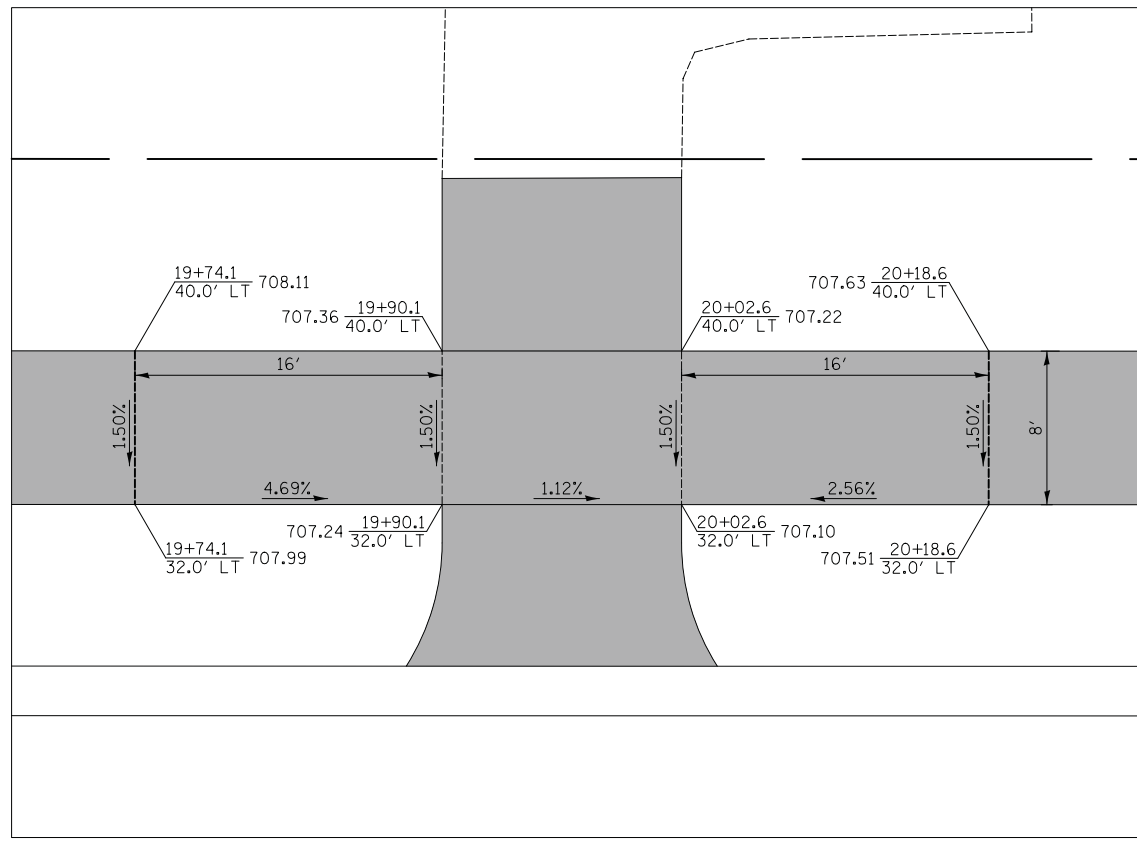


DRIVEWAY AT STA. 19+25 LT

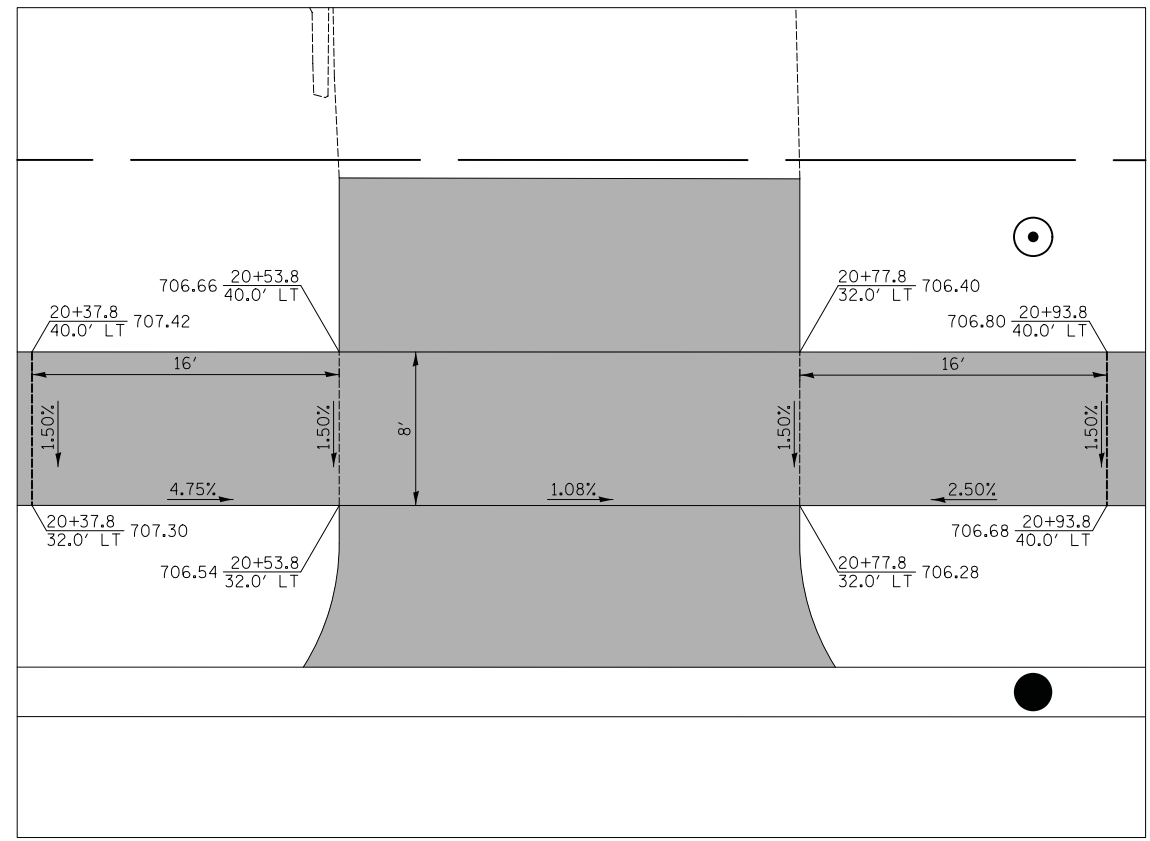


DATE	
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NOTE BOOK	
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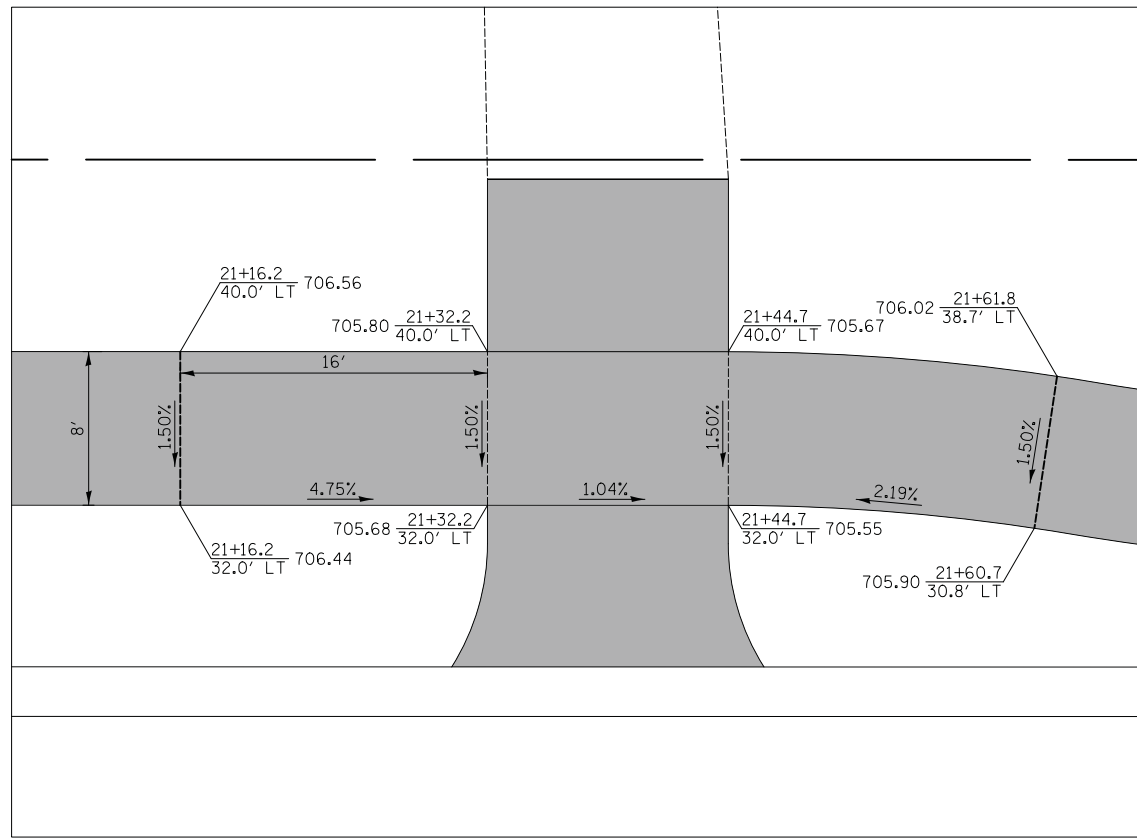
DATE	
BY	
SURVEYED	
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AREAS	
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ORIGINAL	
SURVEY	
NOTE BOOK	
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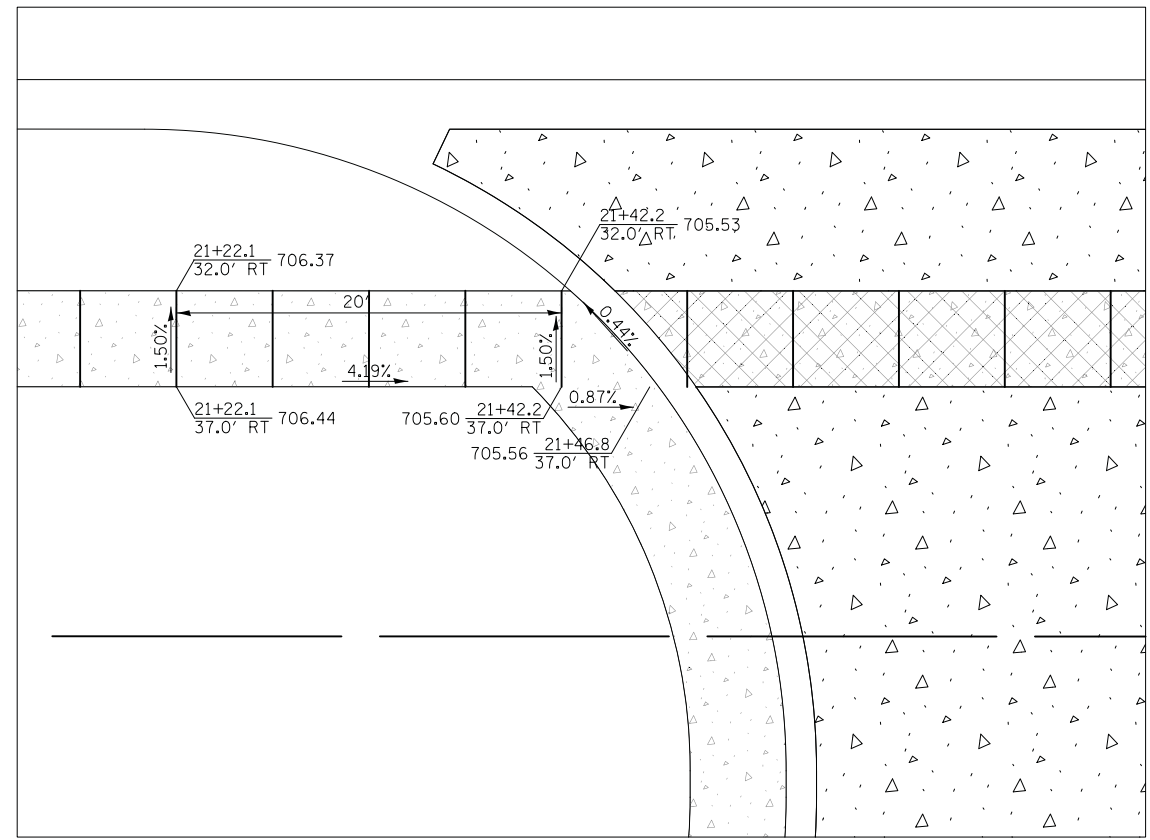
SIDEWALK AT STA. 19+96 LT



DRIVEWAY AT STA. 20+66 LT



DRIVEWAY AT STA. 21+39 LT

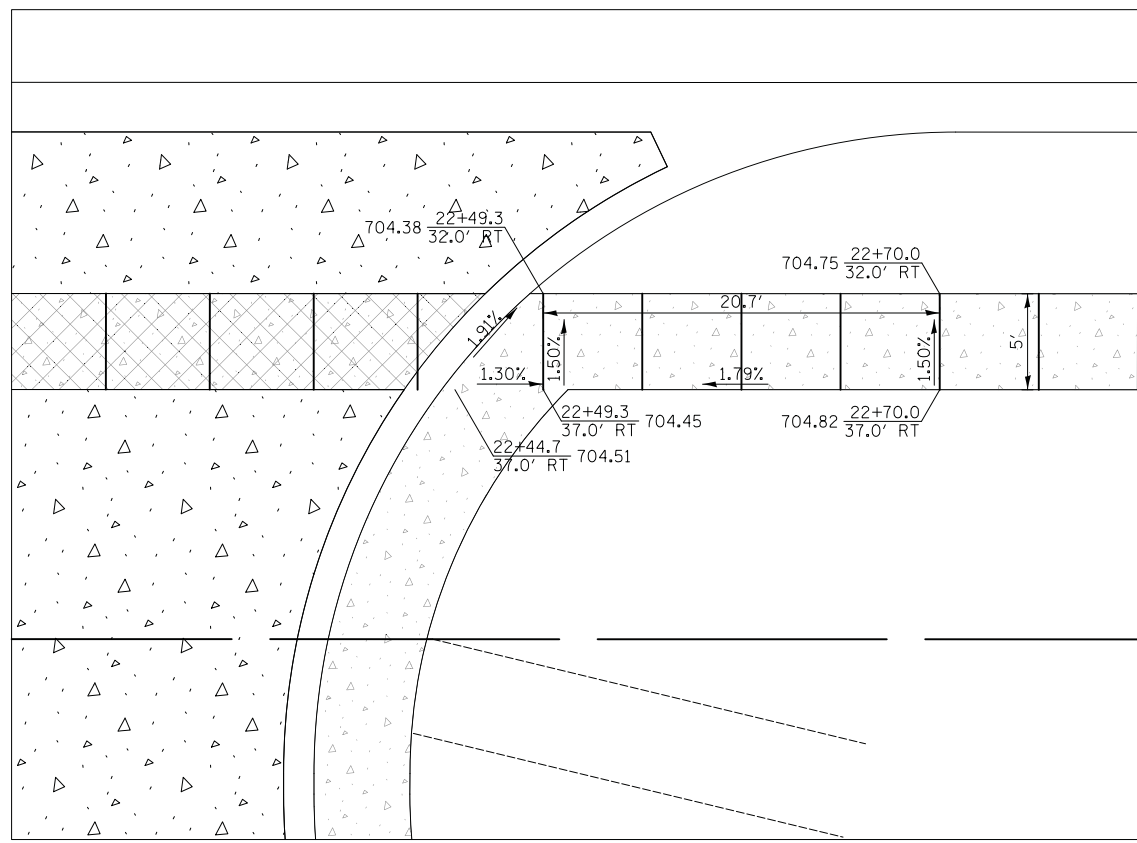


DRIVEWAY AT STA. 21+64 RT

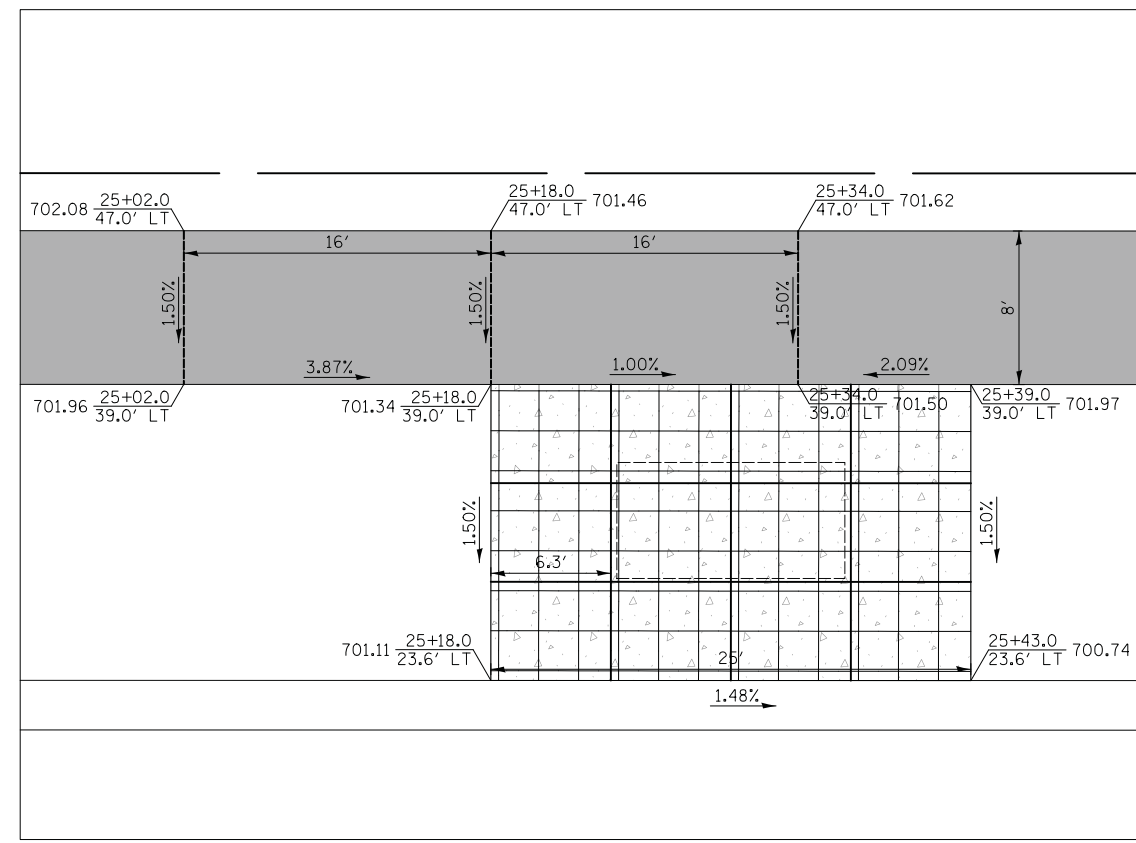


DATE	
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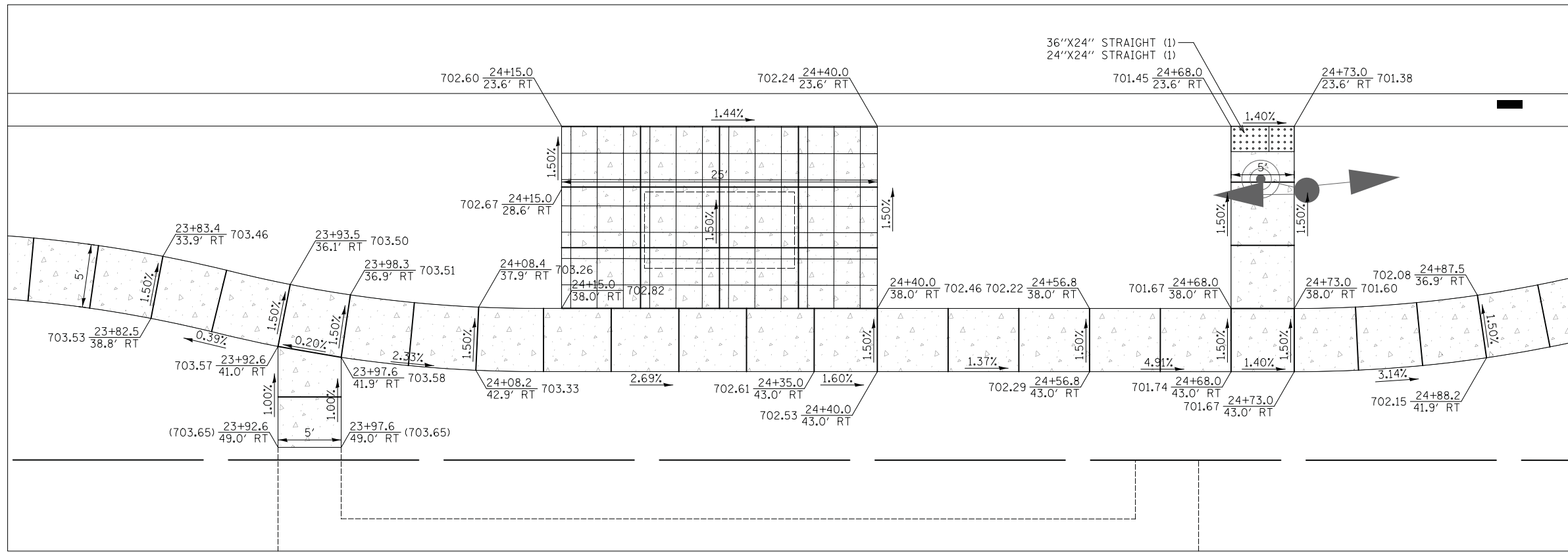
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DRIVEWAY AT STA. 22+28 RT



BUS PAD AT STA. 25+30 LT



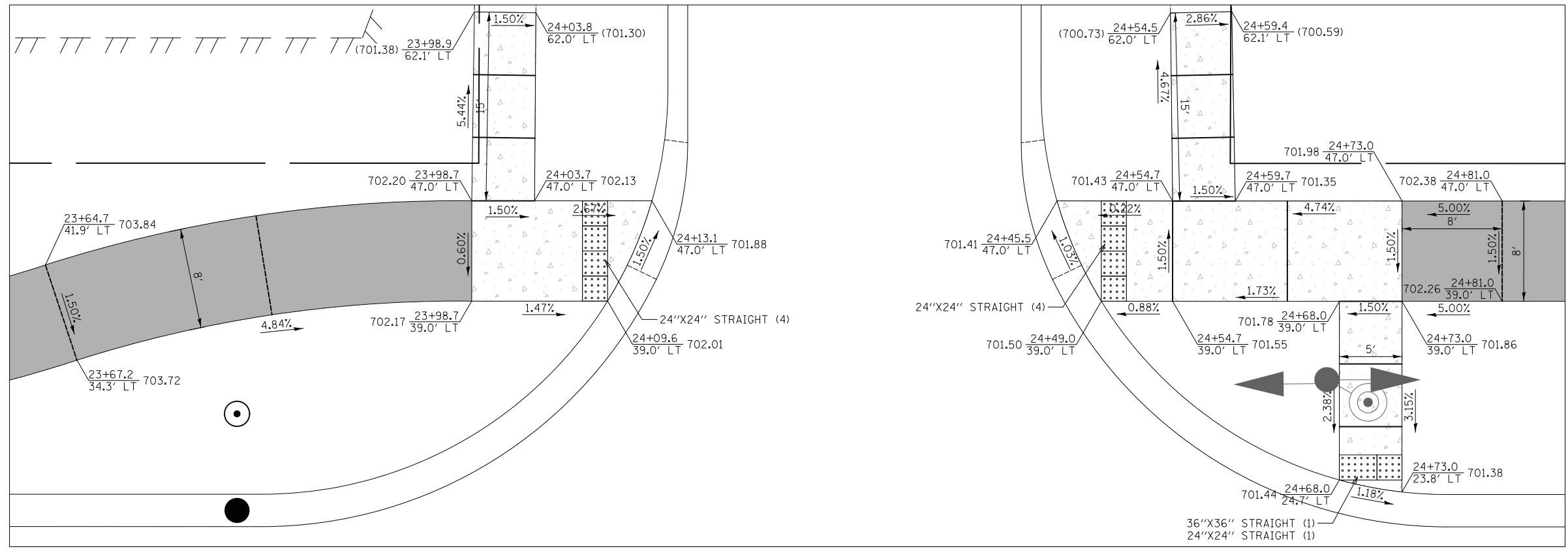
VARIOUS SIDEWALK  
STA. 23+95 TO STA. 24+70 RT



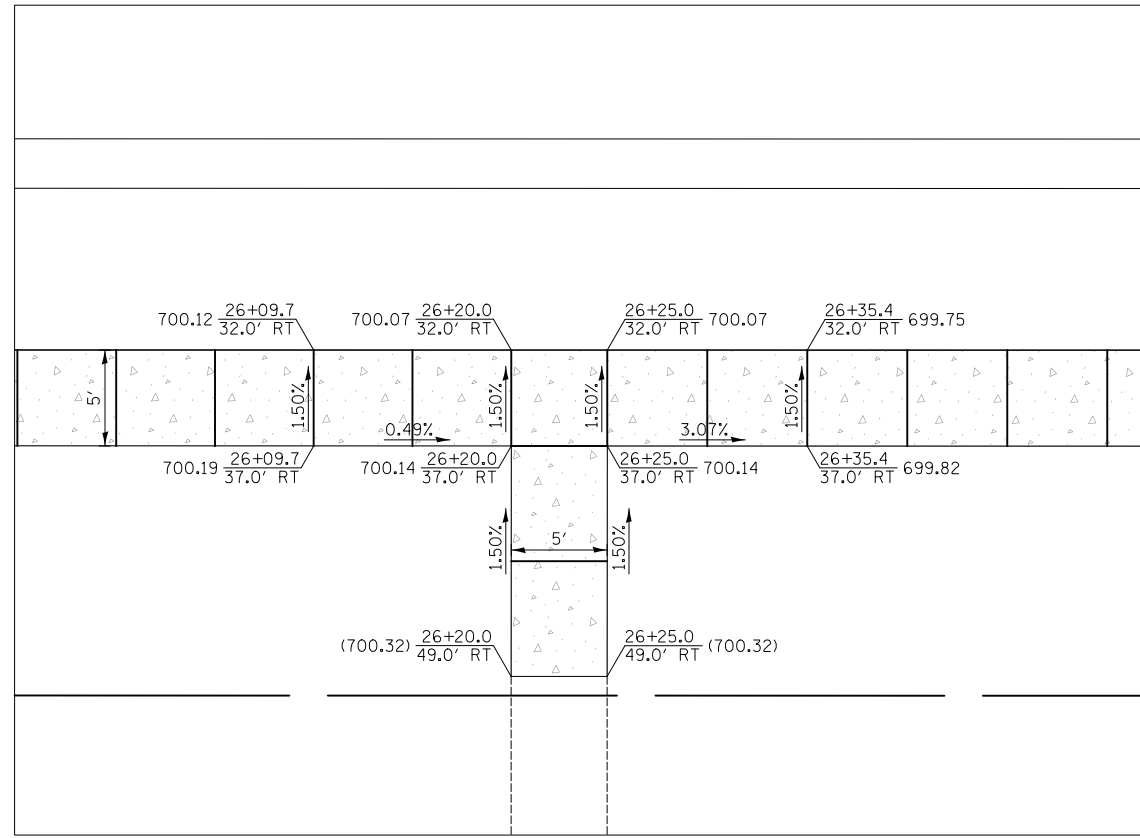


DATE	BY
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FINISH SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED

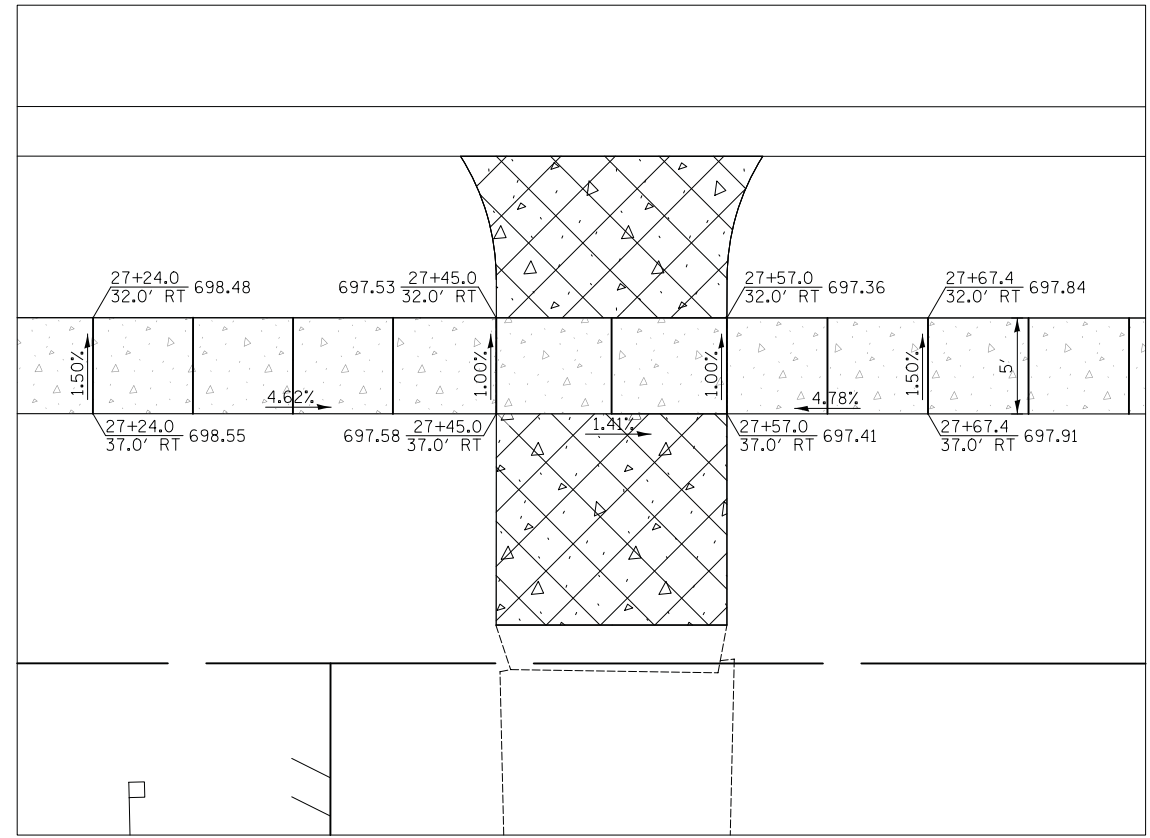
DATE	BY
NO.	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED



CROSSWALK  
14TH STREET AND CARTER COURT



SIDEWALK AT STA. 26+22 RT



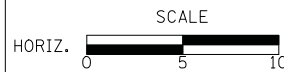
DRIVEWAY AT STA. 27+51 RT



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CHECKED - JRV	REVISED -
DATE - 11/7/2018	REVISED -

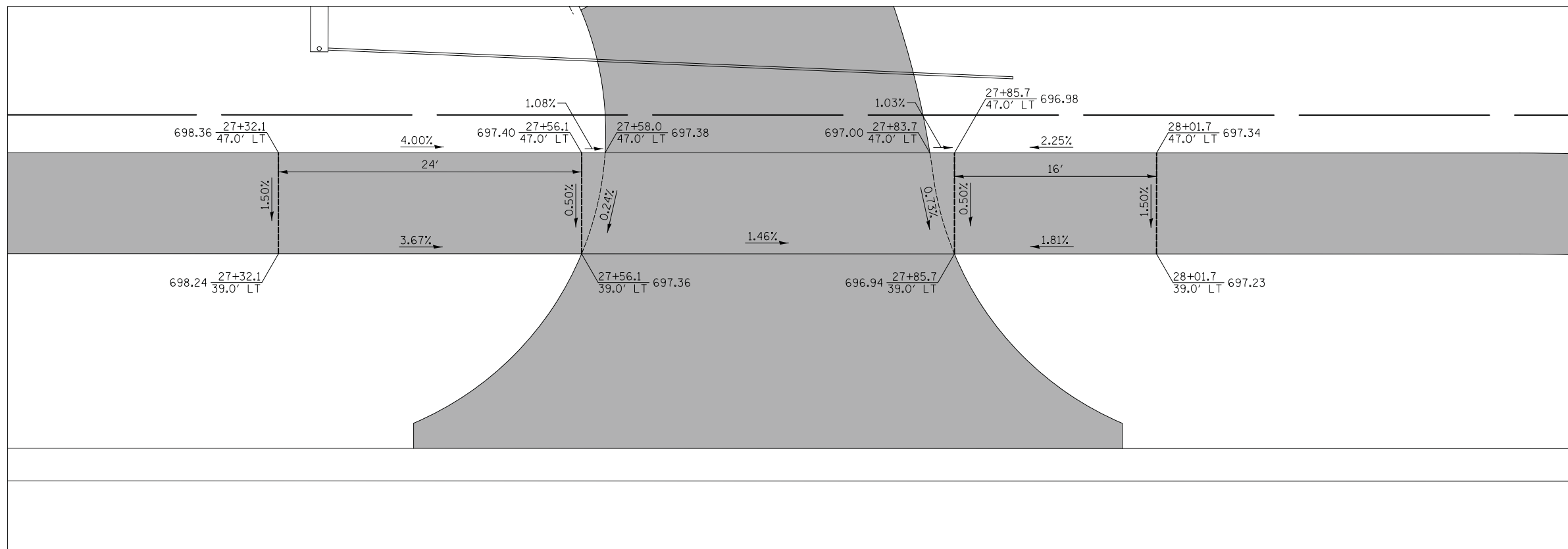
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



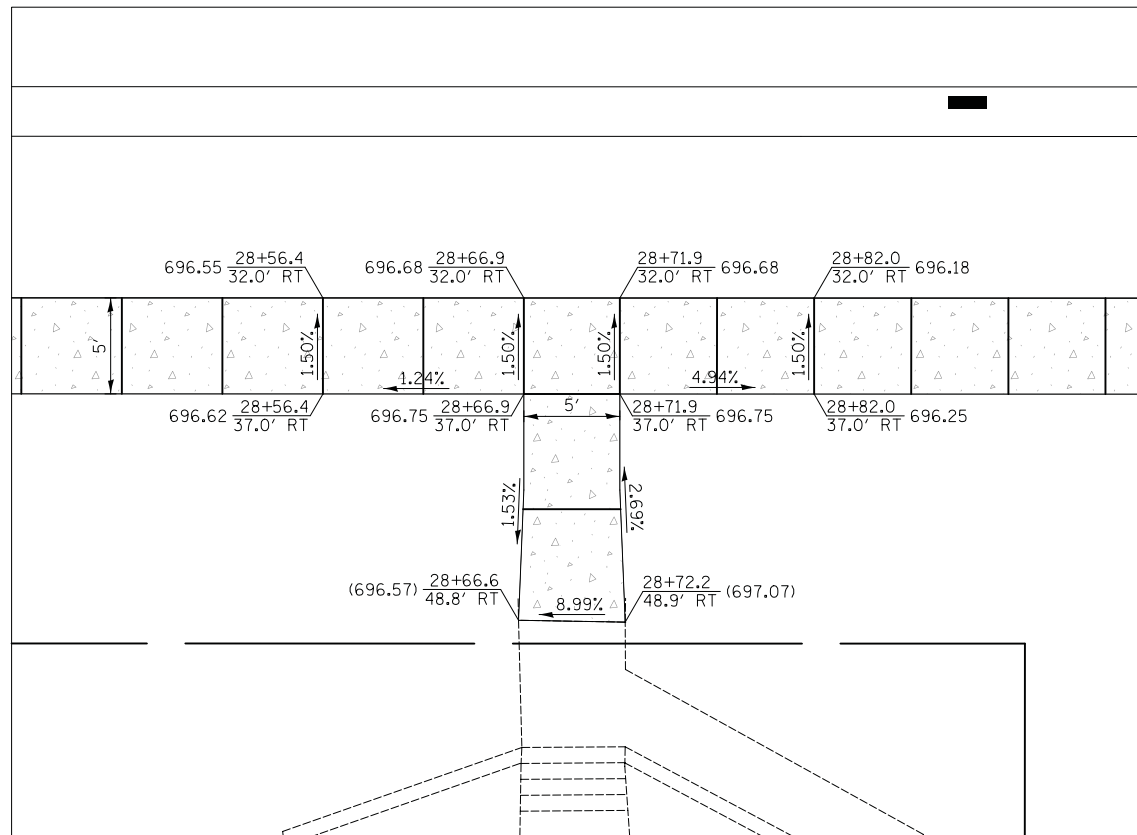
SIDEWALK RAMP DETAILS

SHEET NO. 14 OF 46 SHEETS STA. TO STA.

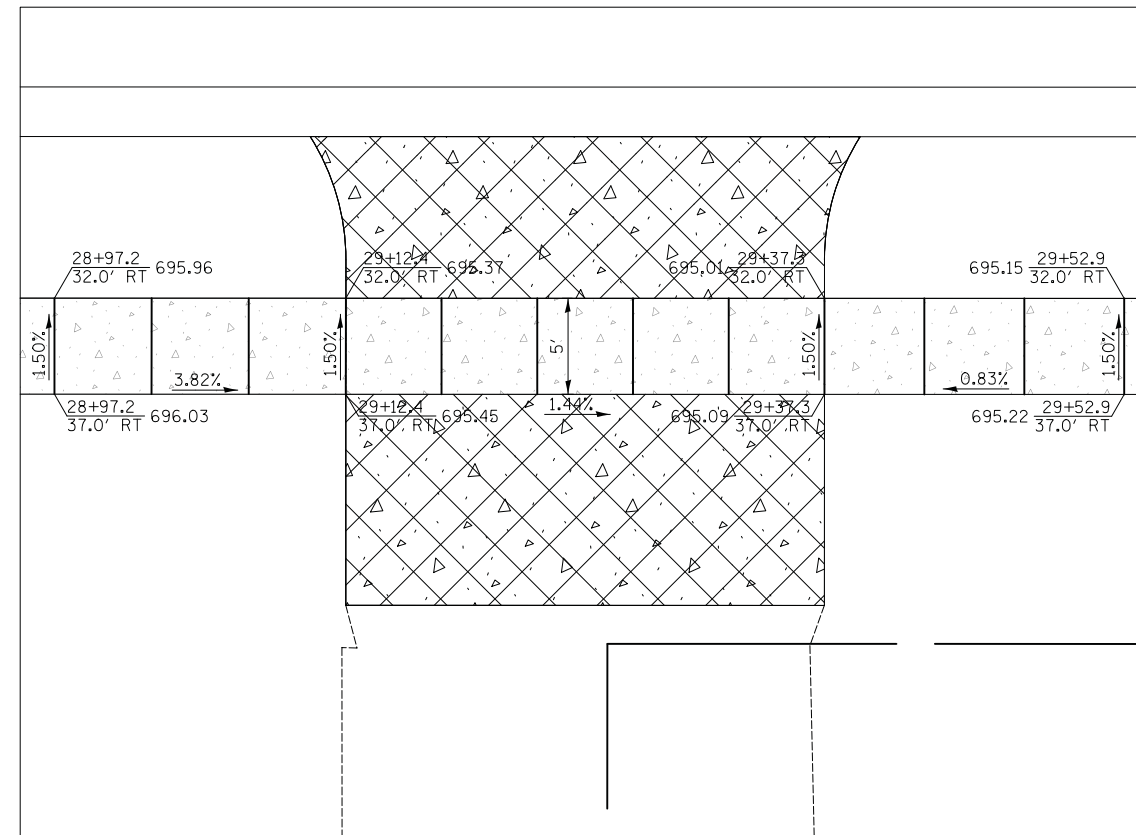
F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	309
				CONTRACT NO. 61F33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DRIVEWAY AT STA. 27+71 LT



SIDEWALK AT STA. 28+70 RT



DRIVEWAY AT STA. 29+25 RT

DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.				

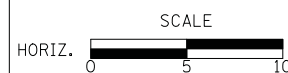
DATE	BY	SURVEYED	PLOTTED	AREAS CHECKED
NO.				



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DATE - 11/7/2018	REVISED -

STATE OF ILLINOIS  
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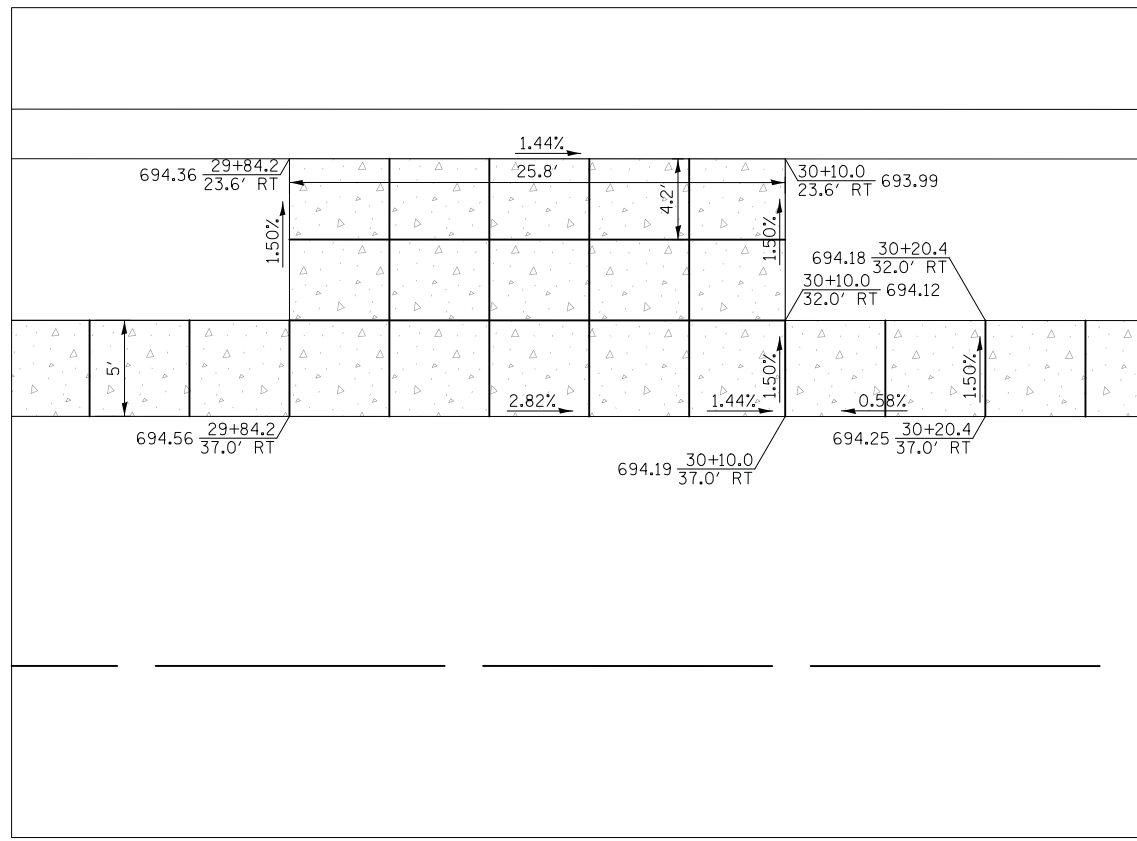


SIDEWALK RAMP DETAILS

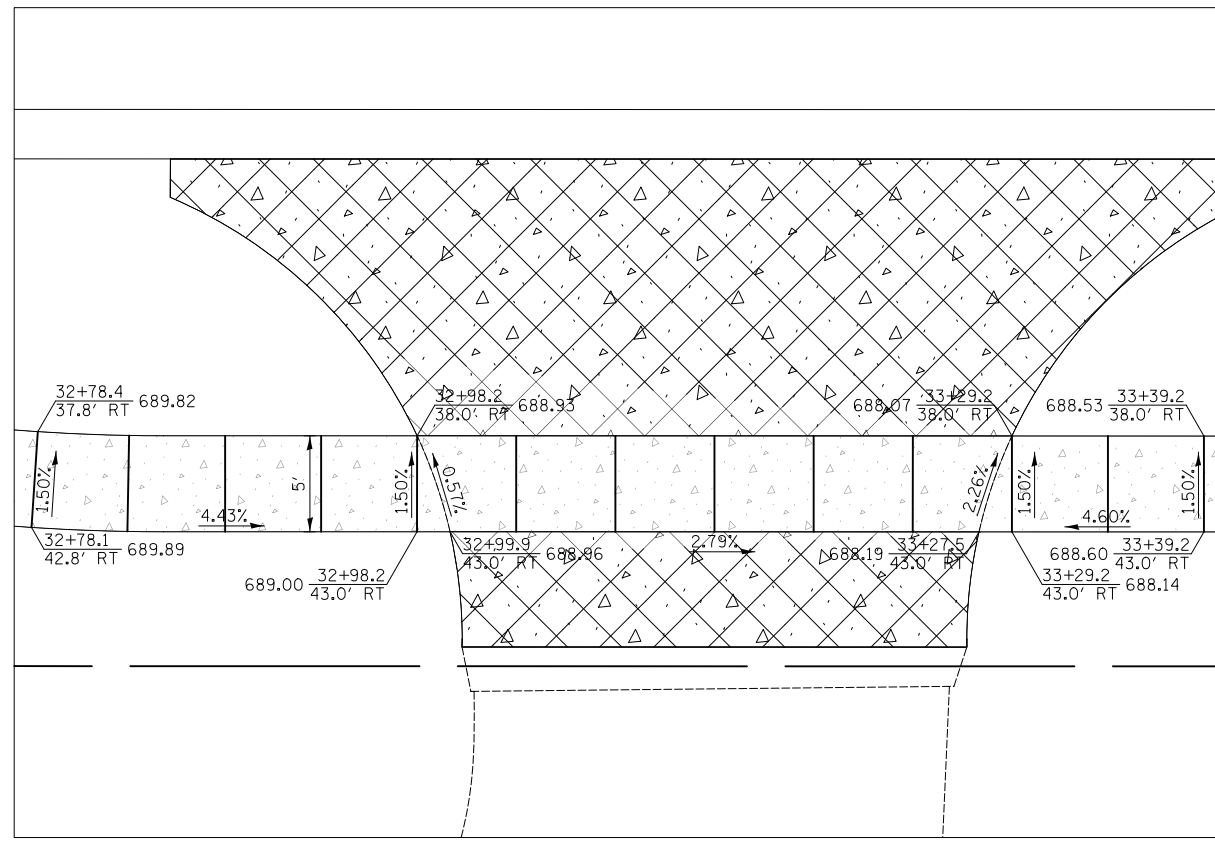
SHEET NO. 15 OF 46 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	310
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

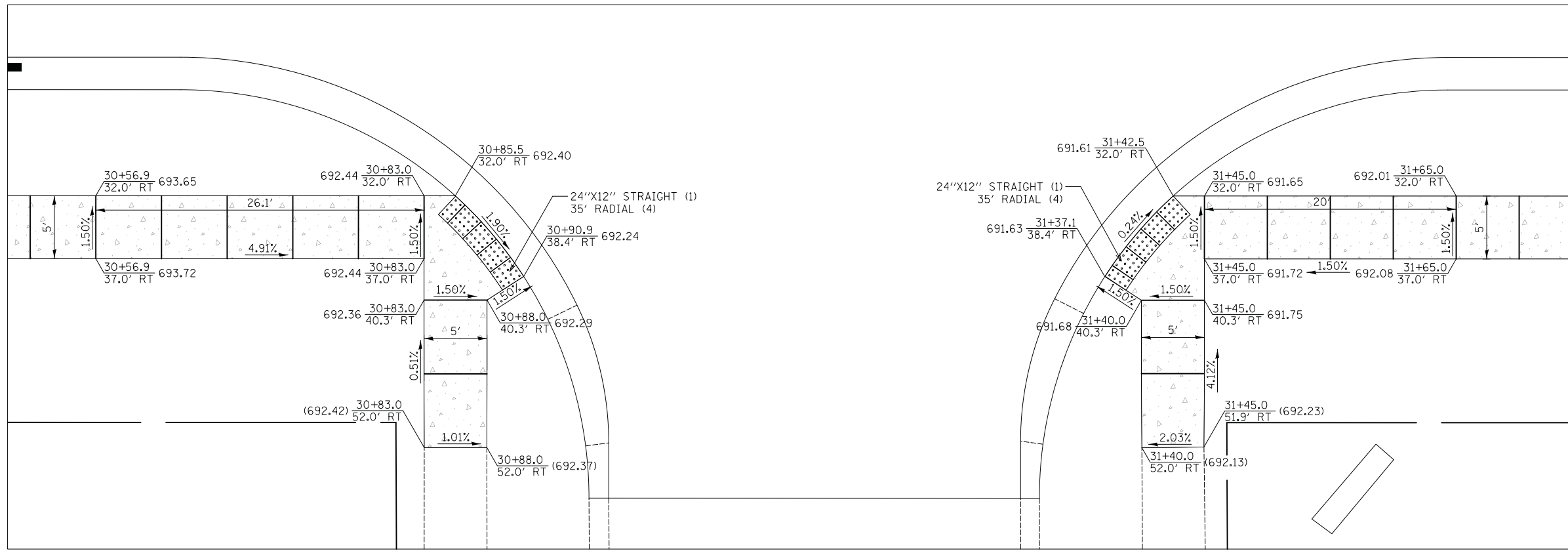


BUS PAD AT STA. 30+00 RT



DRIVEWAY AT STA. 33+14 RT

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

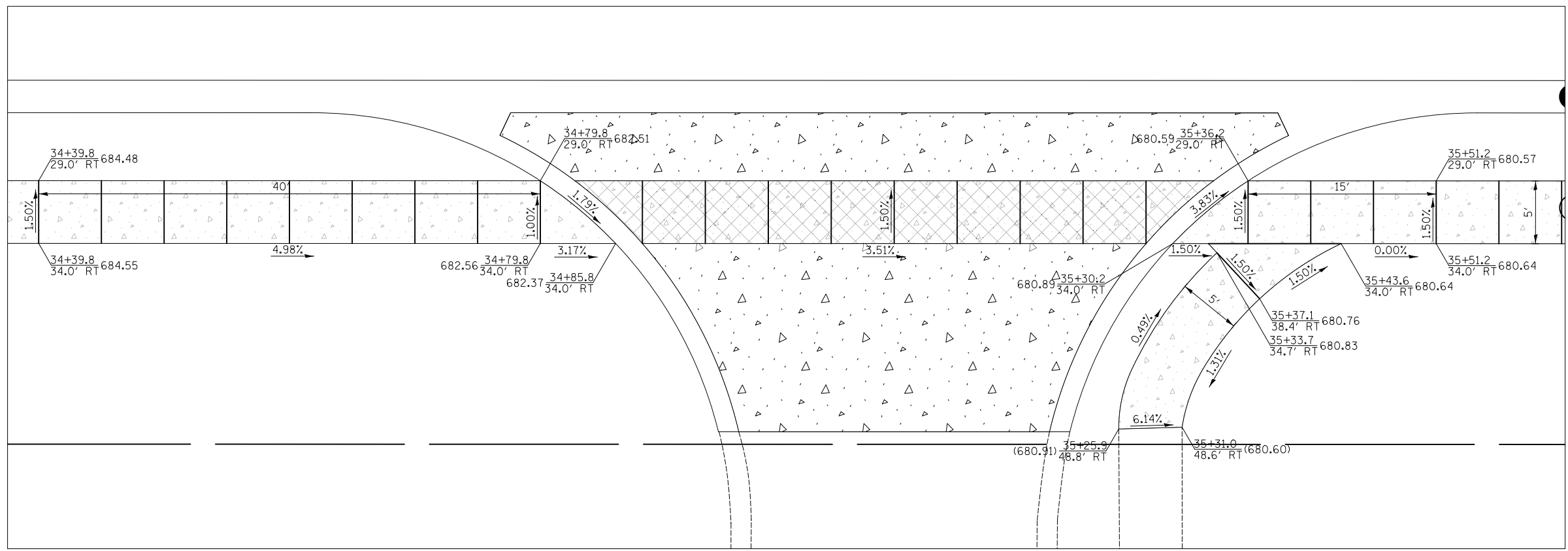


CROSSWALK  
14TH STREET AND RENKEN DRIVE



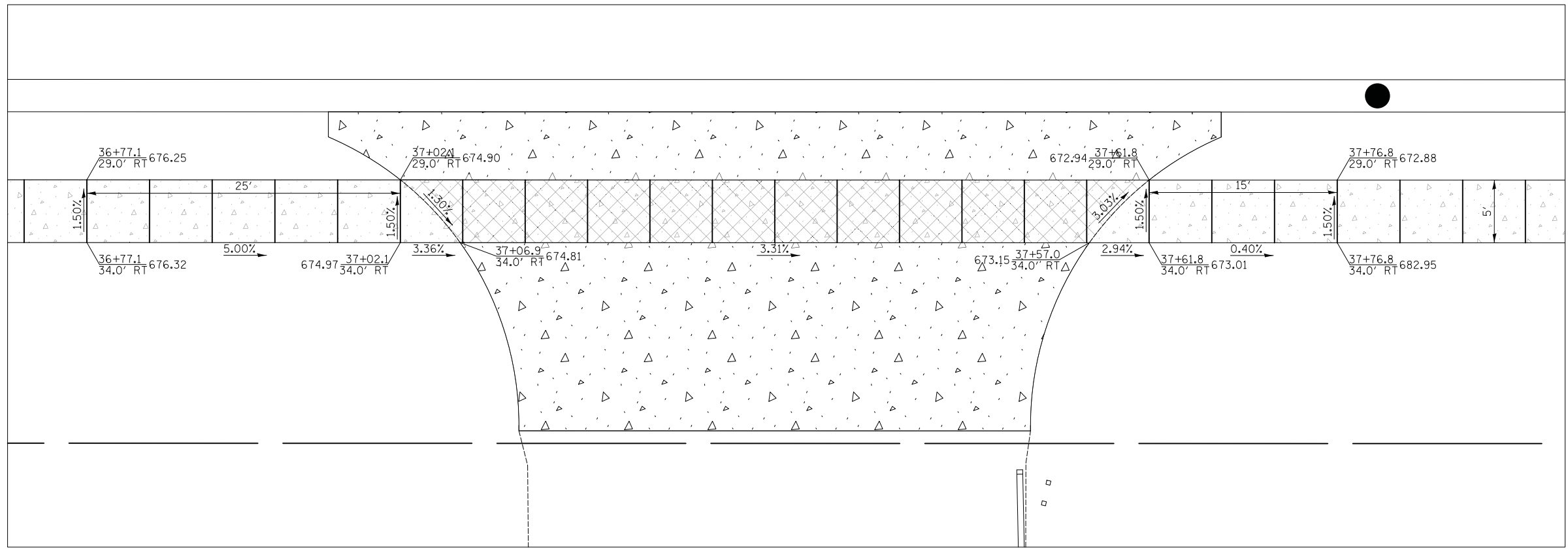


DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED
FINIAL SURVEY NO.						



DRIVEWAY AT STA. 35+08 RT

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED
ORIGINAL SURVEY NO.						



DRIVEWAY AT STA. 37+32 RT

DESIGNED - PK	REVISED -
DRAWN - PK	REVISED -
CHECKED - JRV	REVISED -
DATE - 11/7/2018	REVISED -

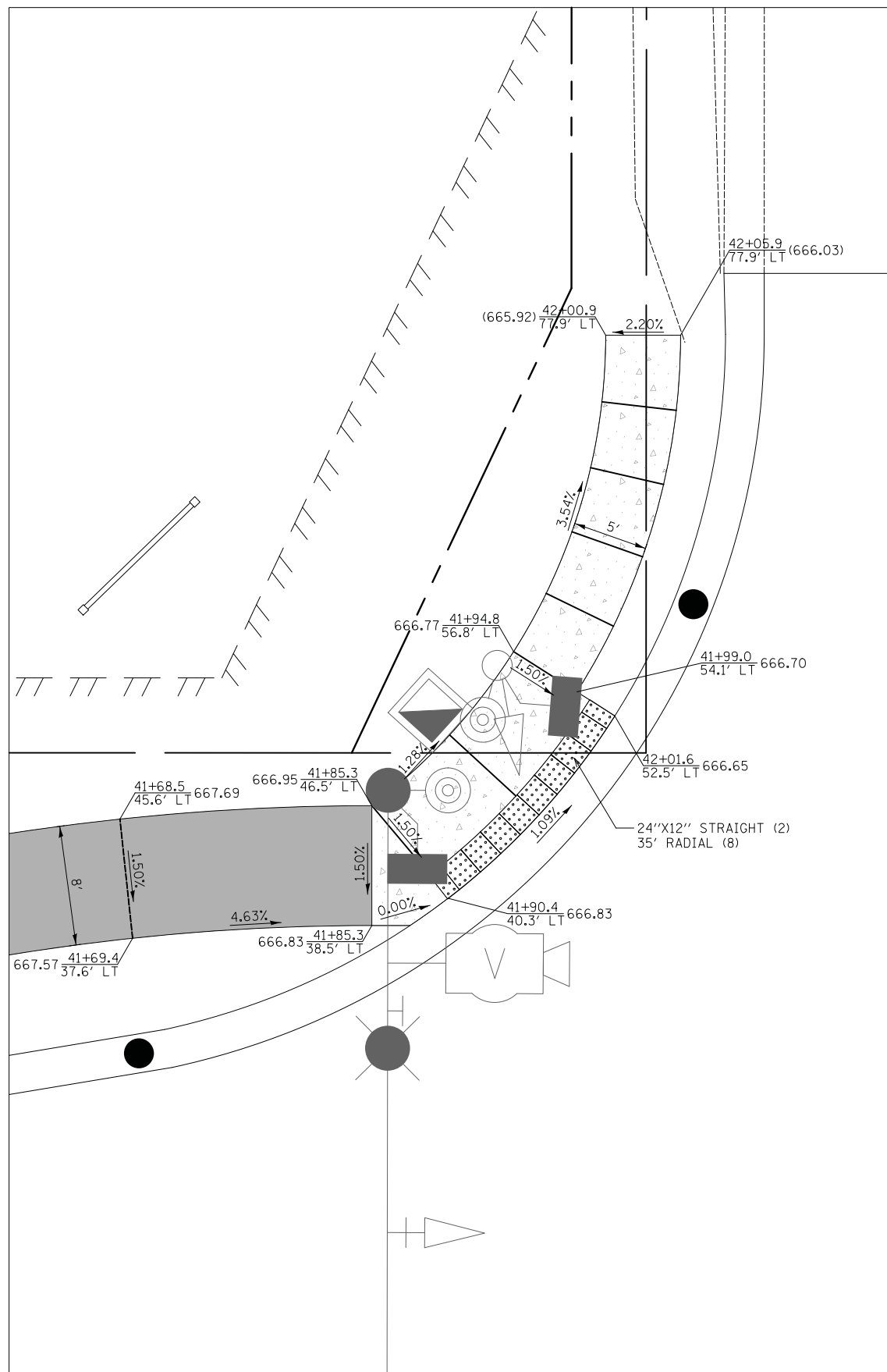


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	312
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

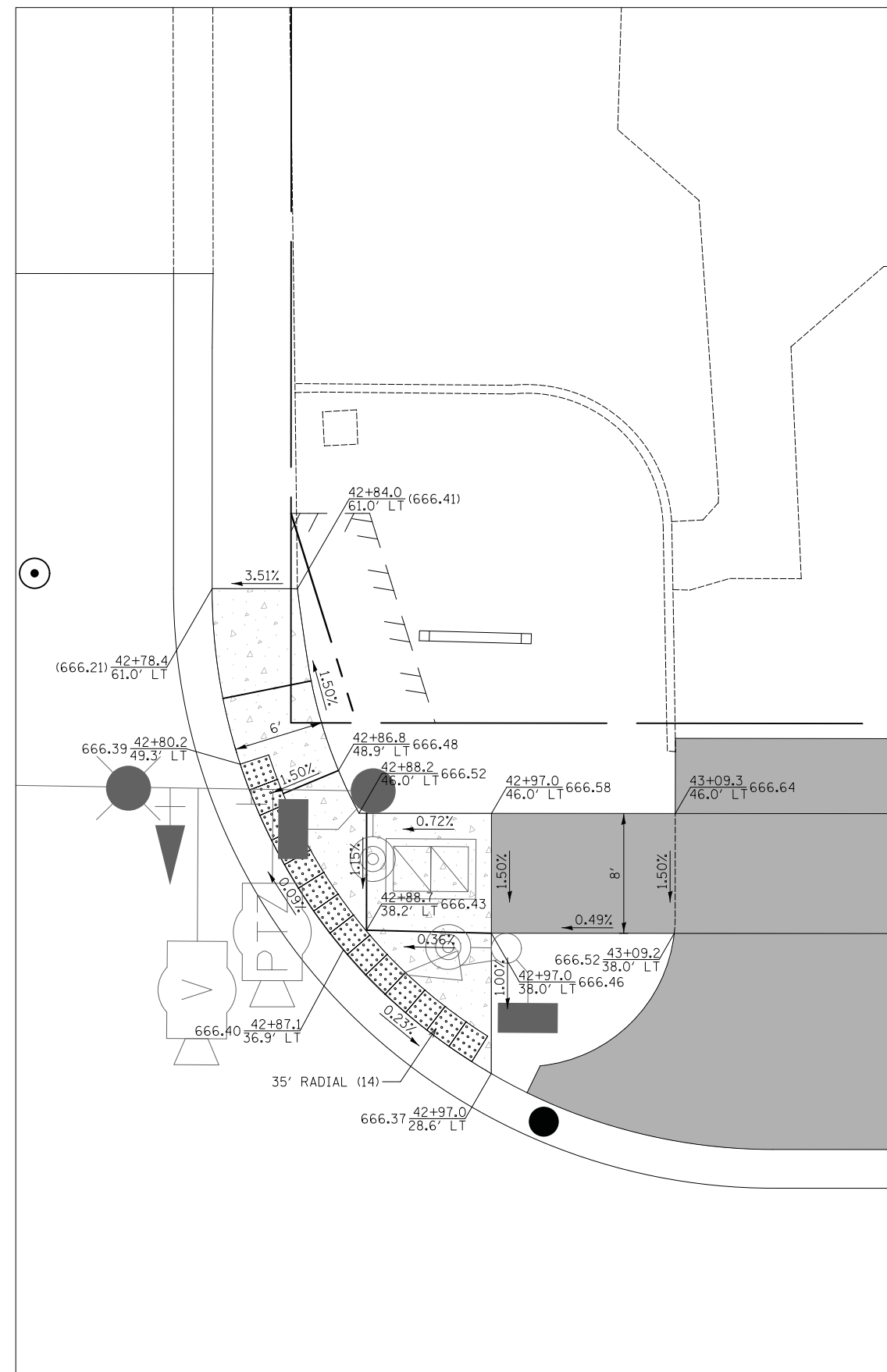


FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	



NORTHWEST CORNER CROSSWALK  
14TH STREET AND LEWIS AVENUE



NORTHEAST CORNER CROSSWALK  
14TH STREET AND LEWIS AVENUE

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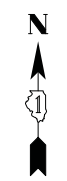
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**SIDEWALK RAMP DETAILS**

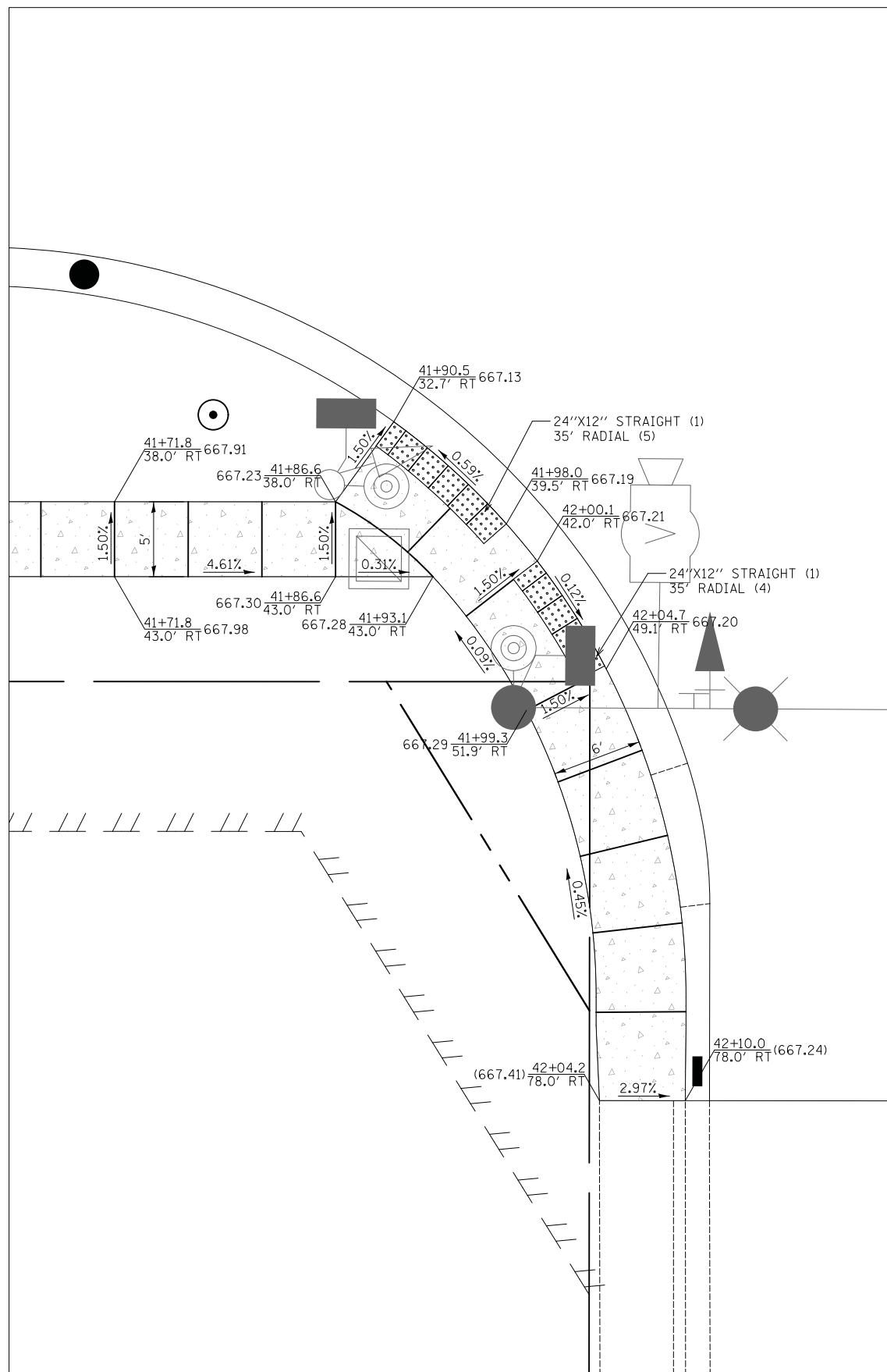
SHEET NO. 18 OF 46 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	313
				CONTRACT NO. 61F33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

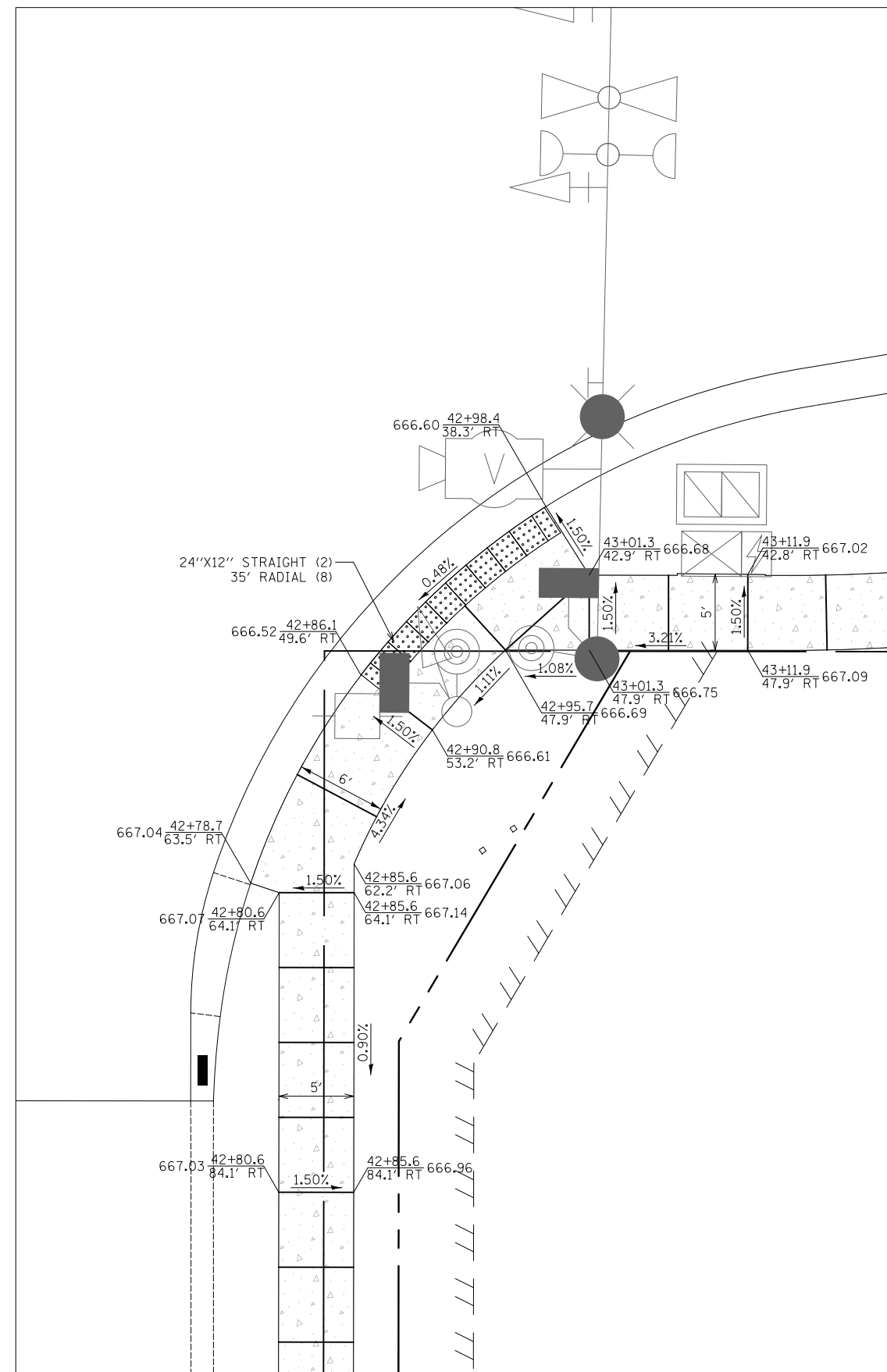


FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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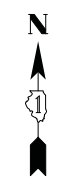
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



SOUTHWEST CORNER CROSSWALK  
14TH STREET AND LEWIS AVENUE

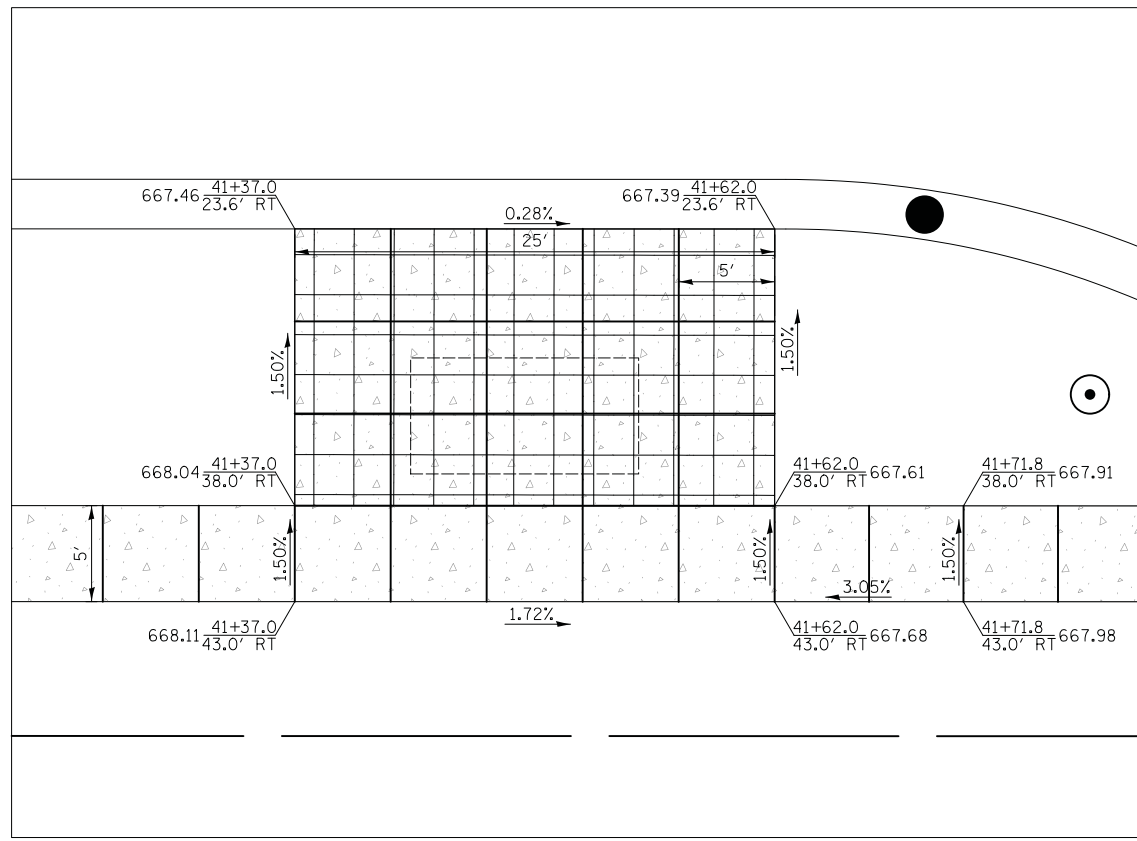


SOUTHEAST CORNER CROSSWALK  
14TH STREET AND LEWIS AVENUE

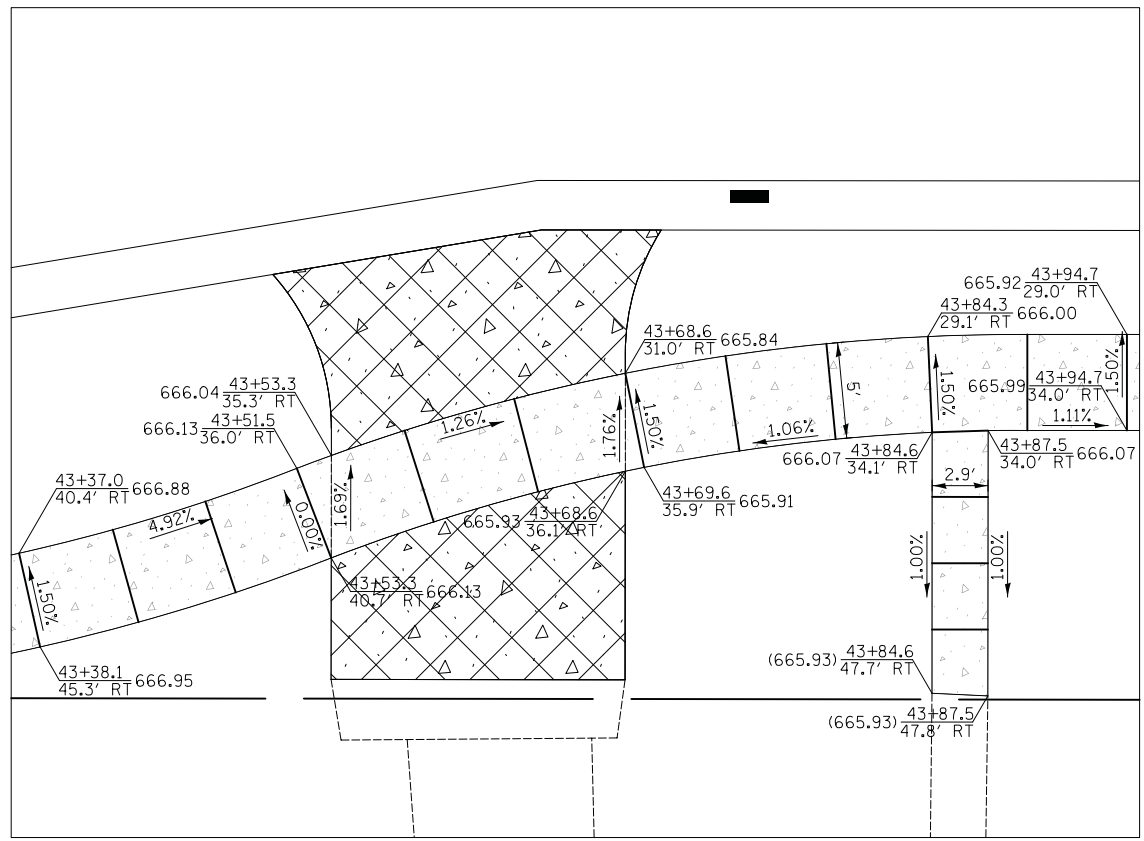


FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

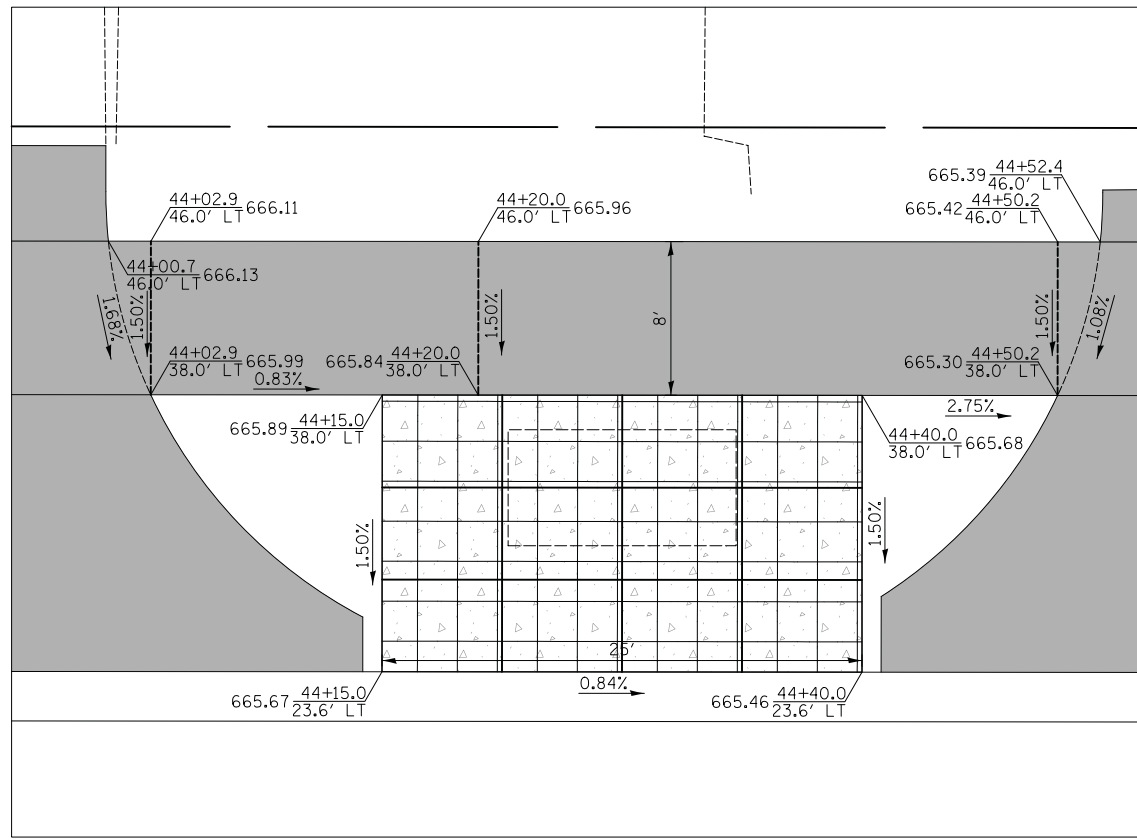
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



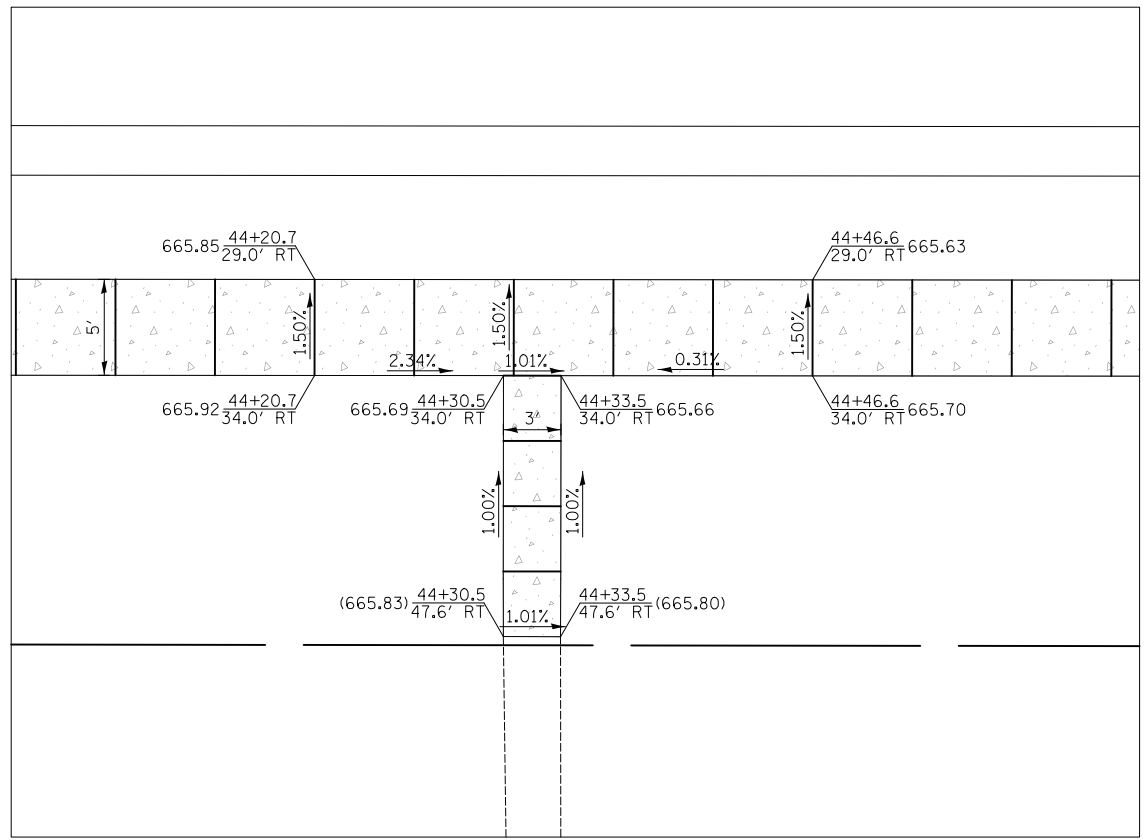
BUS PAD AT STA. 41+50 RT



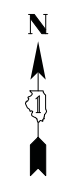
DRIVEWAY AT STA. 43+61 RT



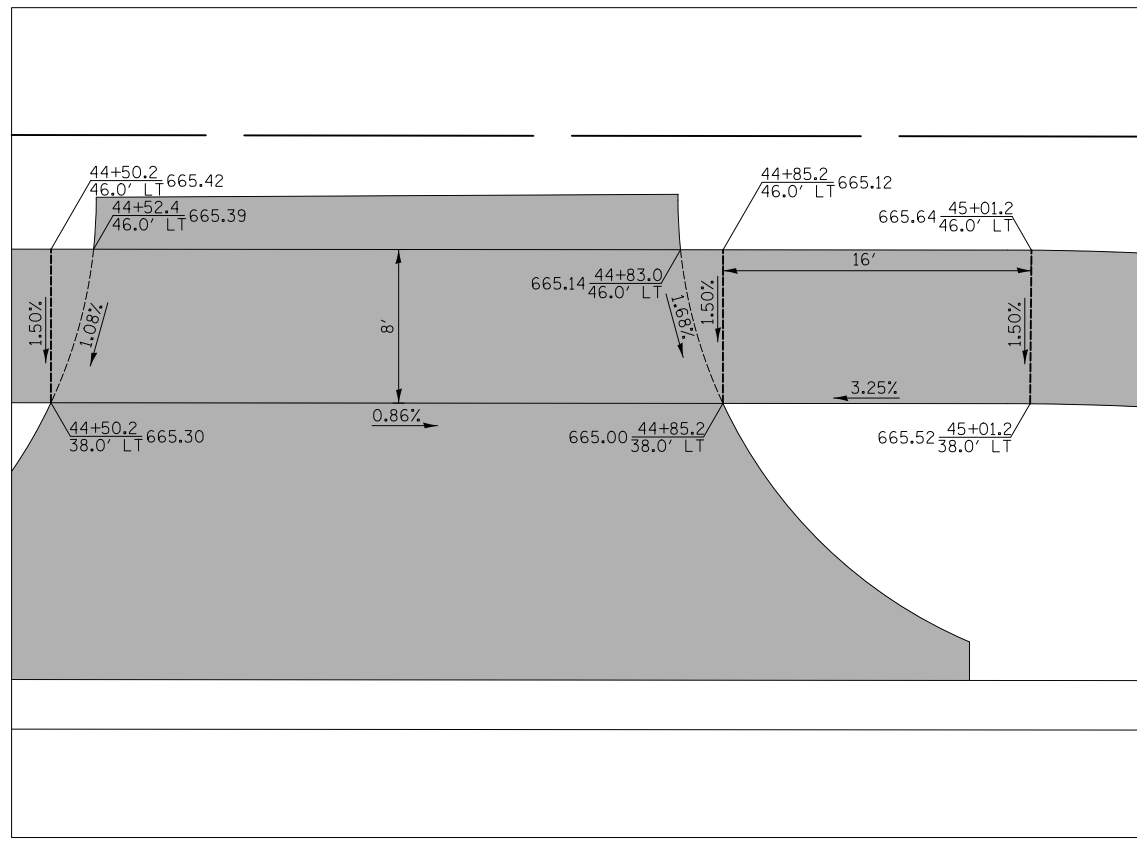
BUS PAD AT STA. 44+25 LT



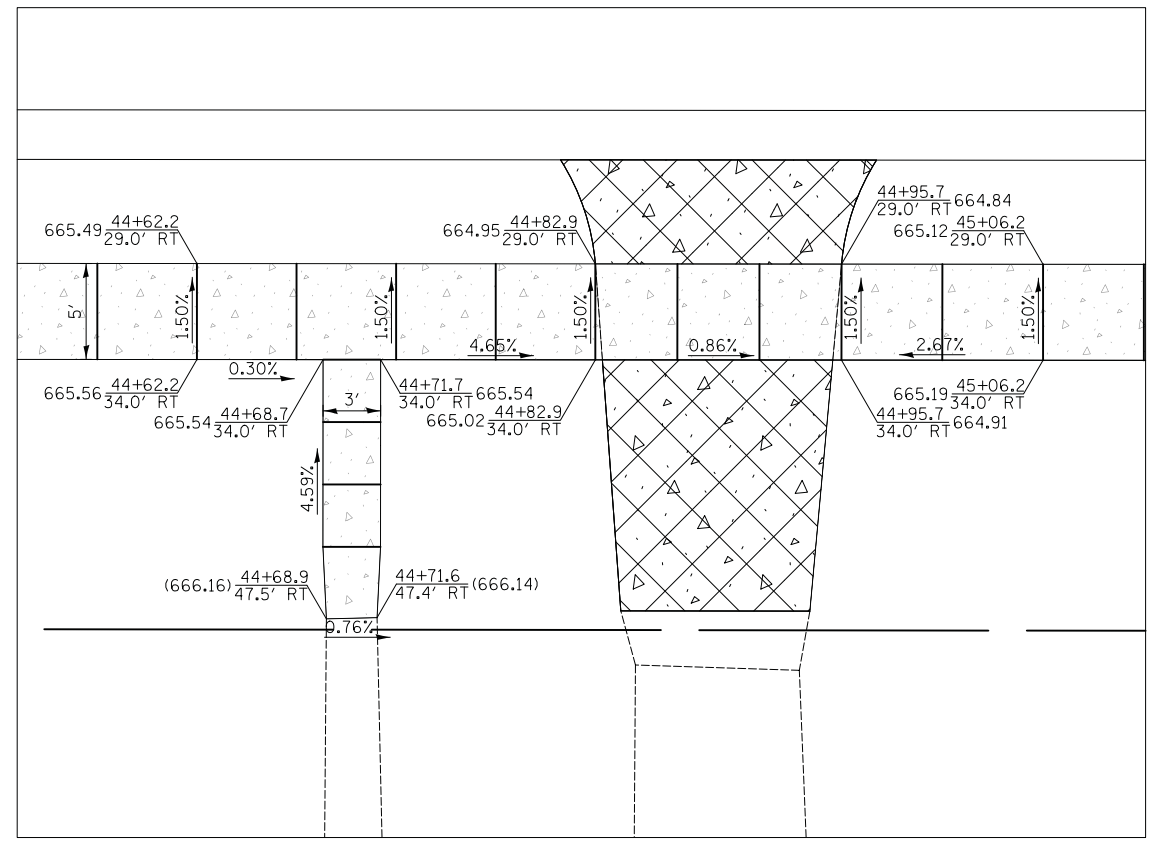
SIDEWALK AT STA. 44+32 RT



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

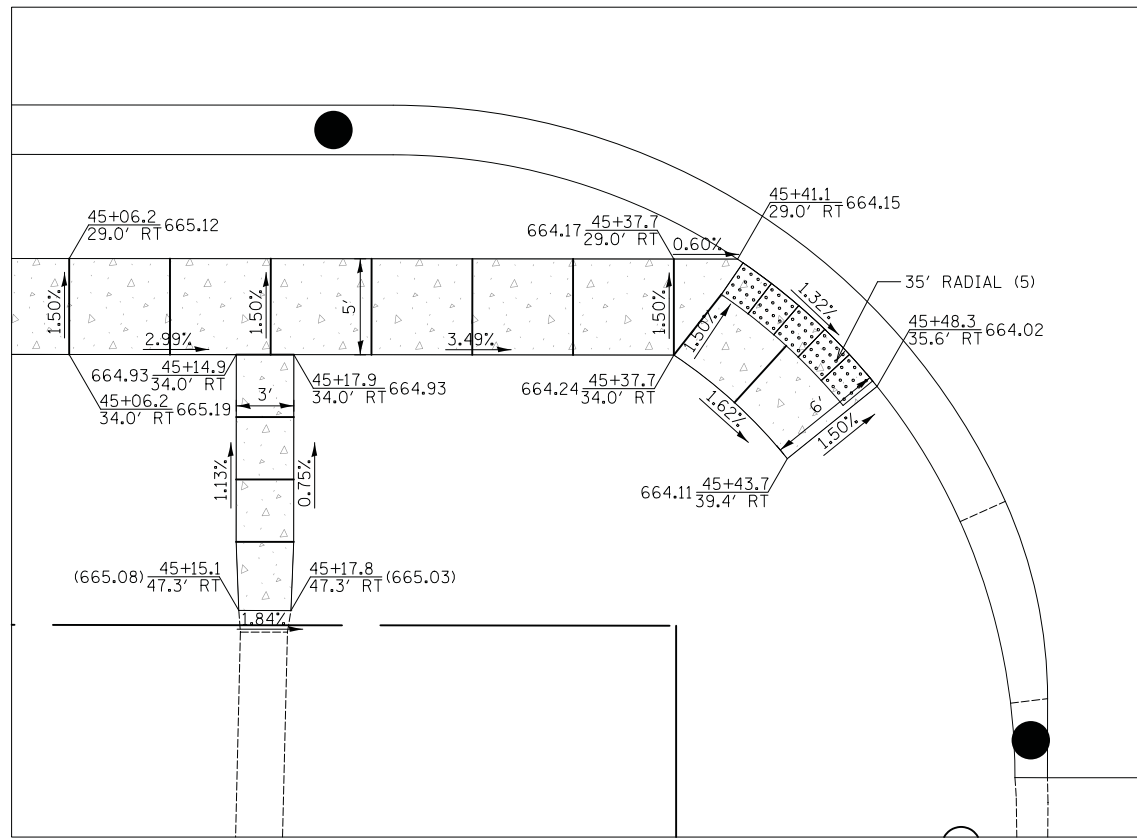


DRIVEWAY AT STA. 44+68 LT

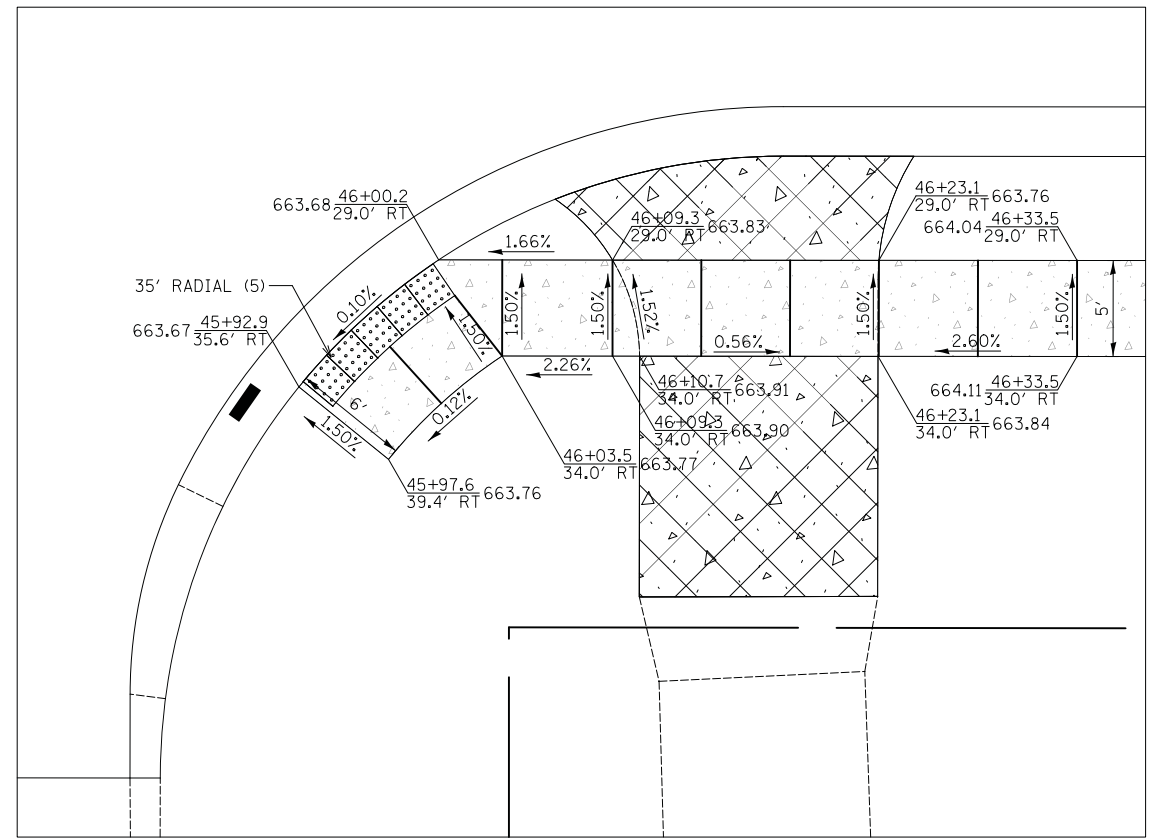


DRIVEWAY AT STA. 44+89 RT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



SOUTHWEST CORNER CROSSWALK  
14TH STREET AND KEMBLE AVENUE



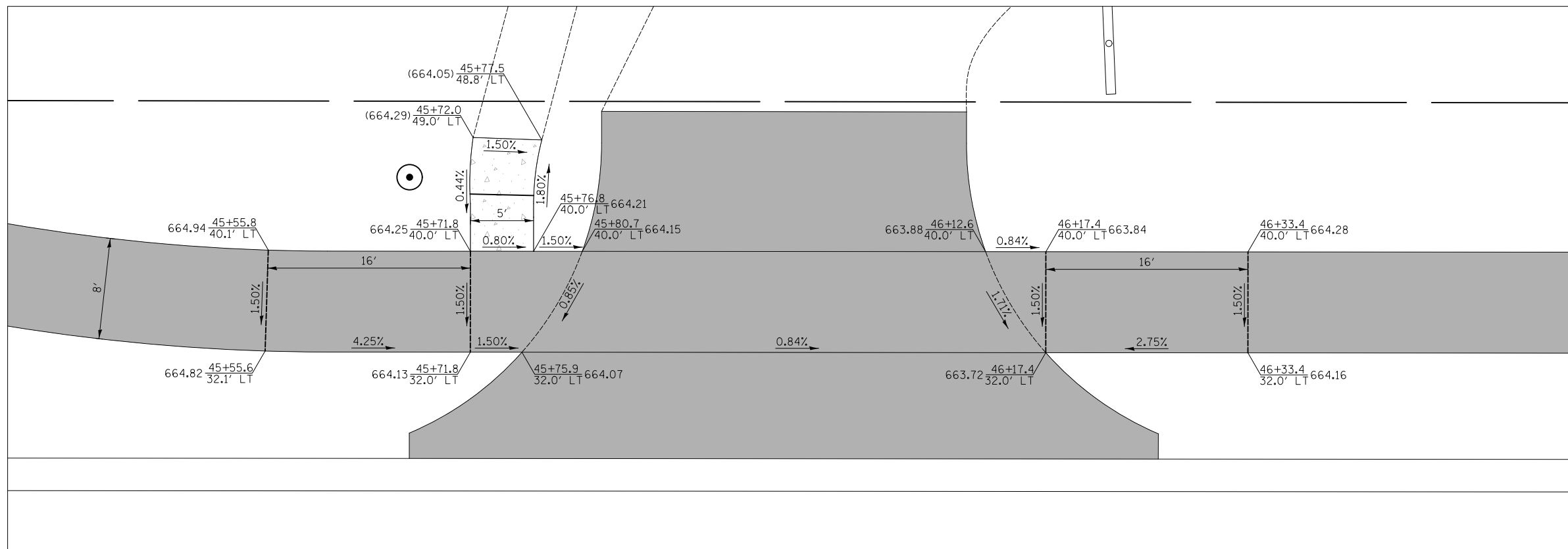
SOUTHEAST CORNER CROSSWALK  
14TH STREET AND KEMBLE AVENUE



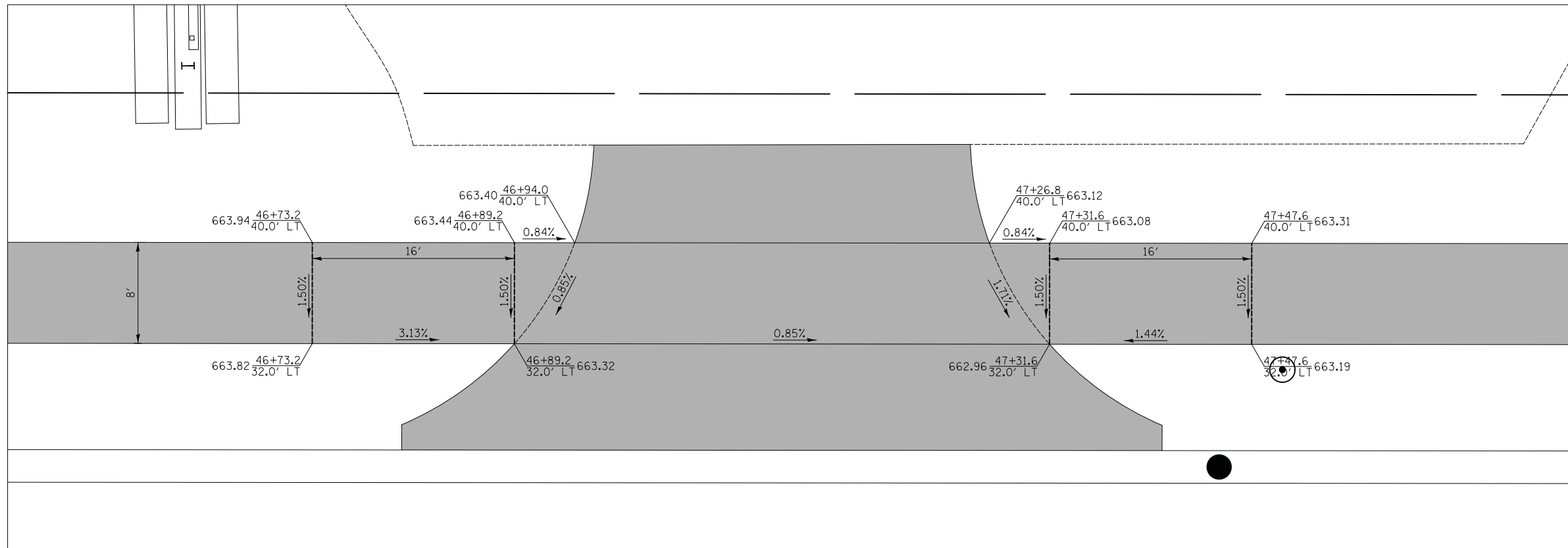


DATE	BY
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	CHECKED
NO.	

DATE	BY
ORIGINAL	
SURVEY	
PLOTTED	
TEMPLATE	
AREAS	CHECKED
NO.	



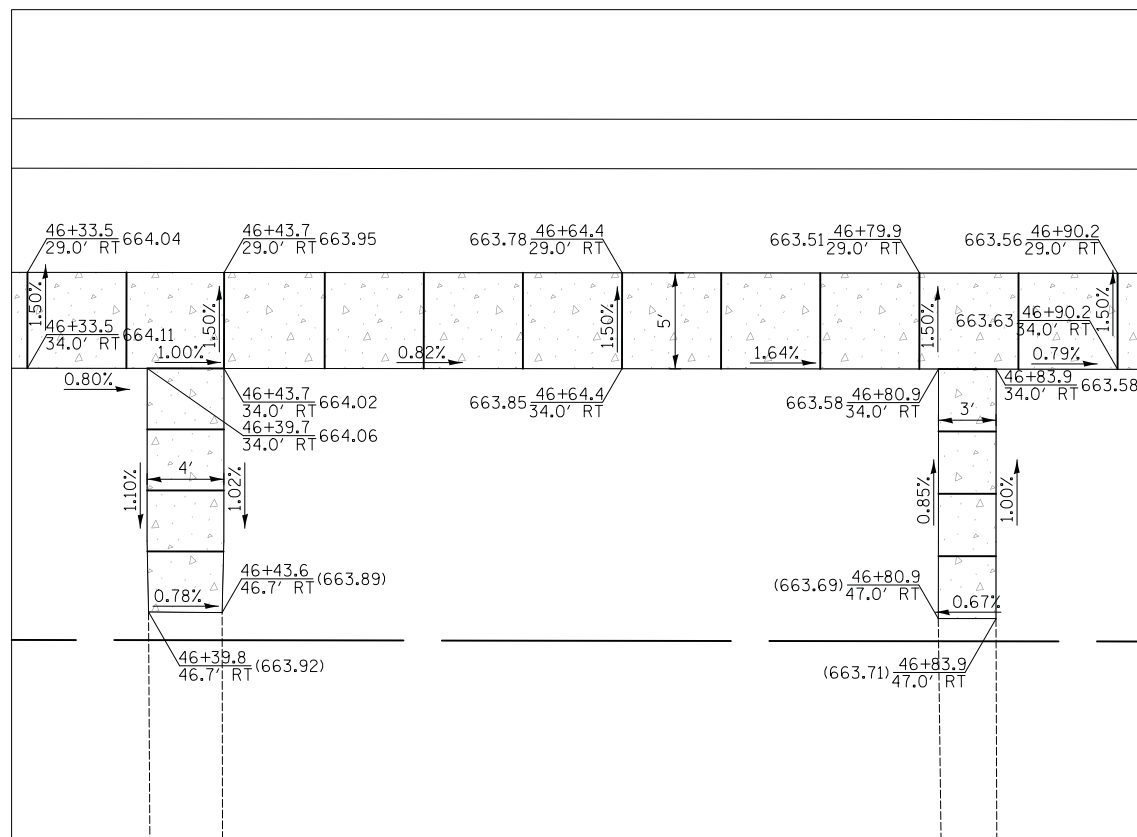
DRIVEWAY AT STA. 45+97 LT



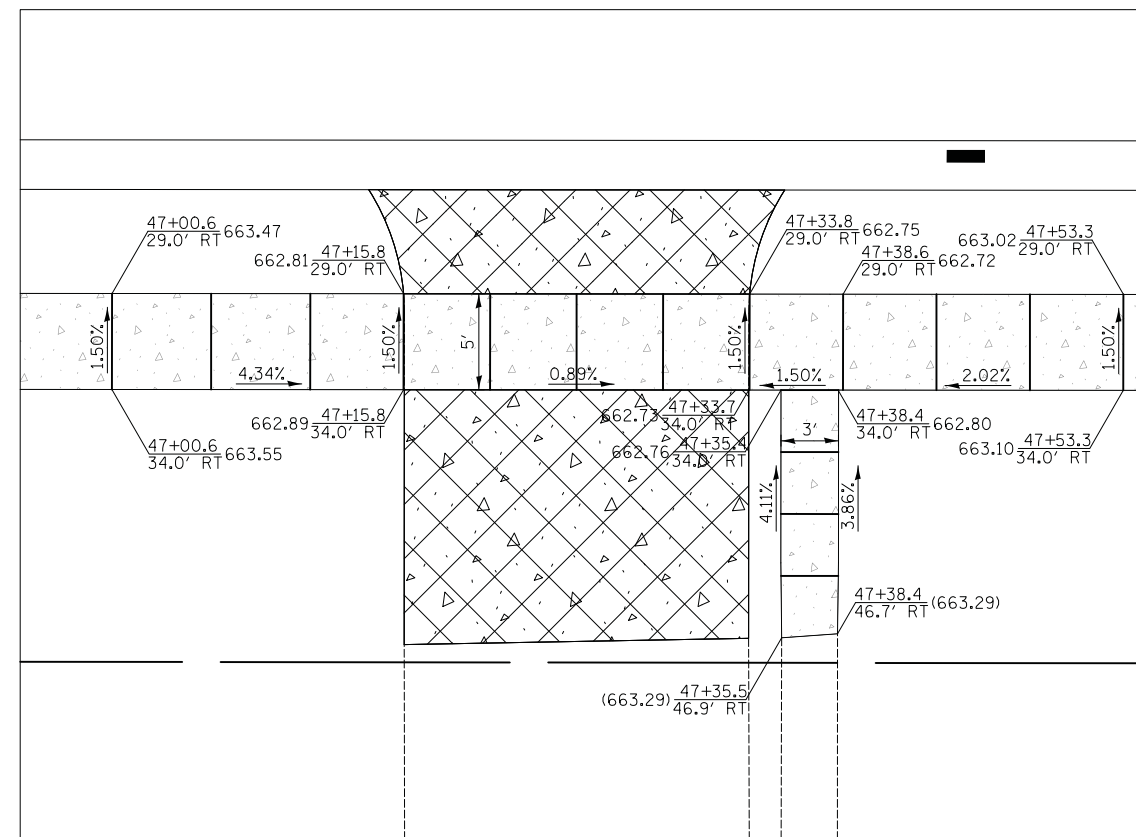
DRIVEWAY AT STA. 47+10 LT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED
BY	DATE

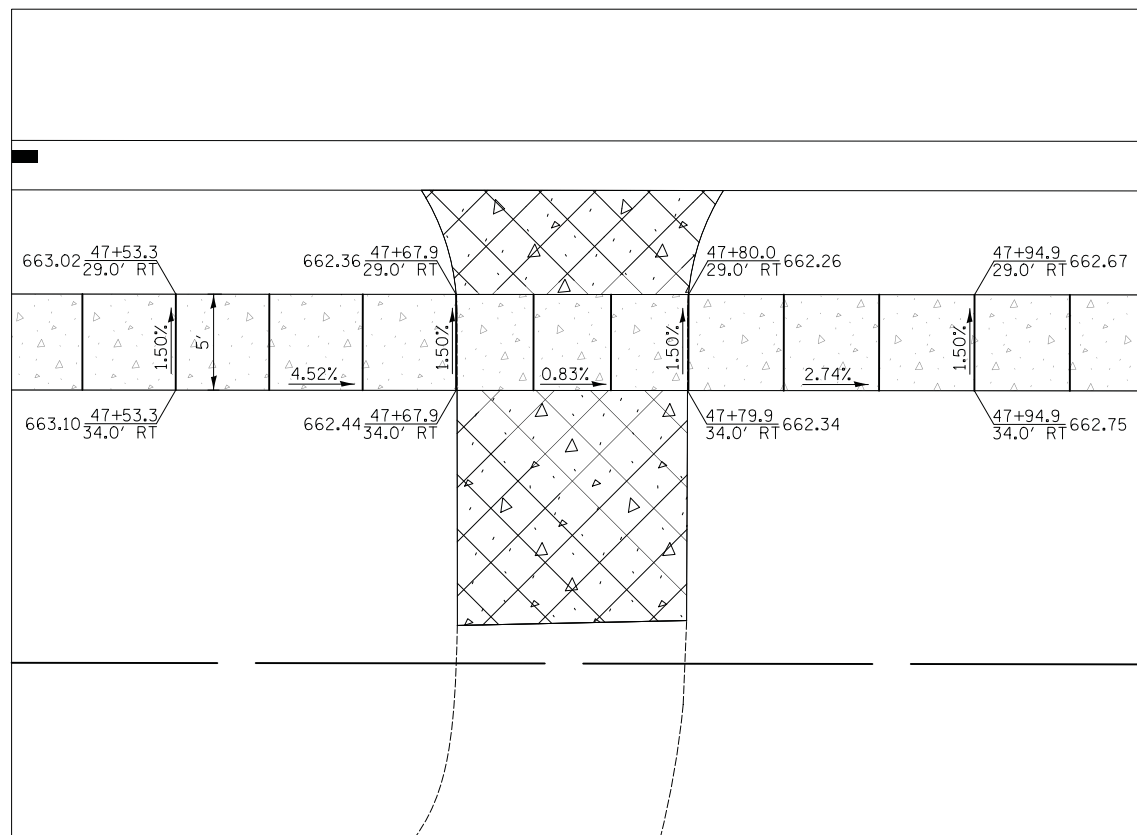
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED
BY	DATE



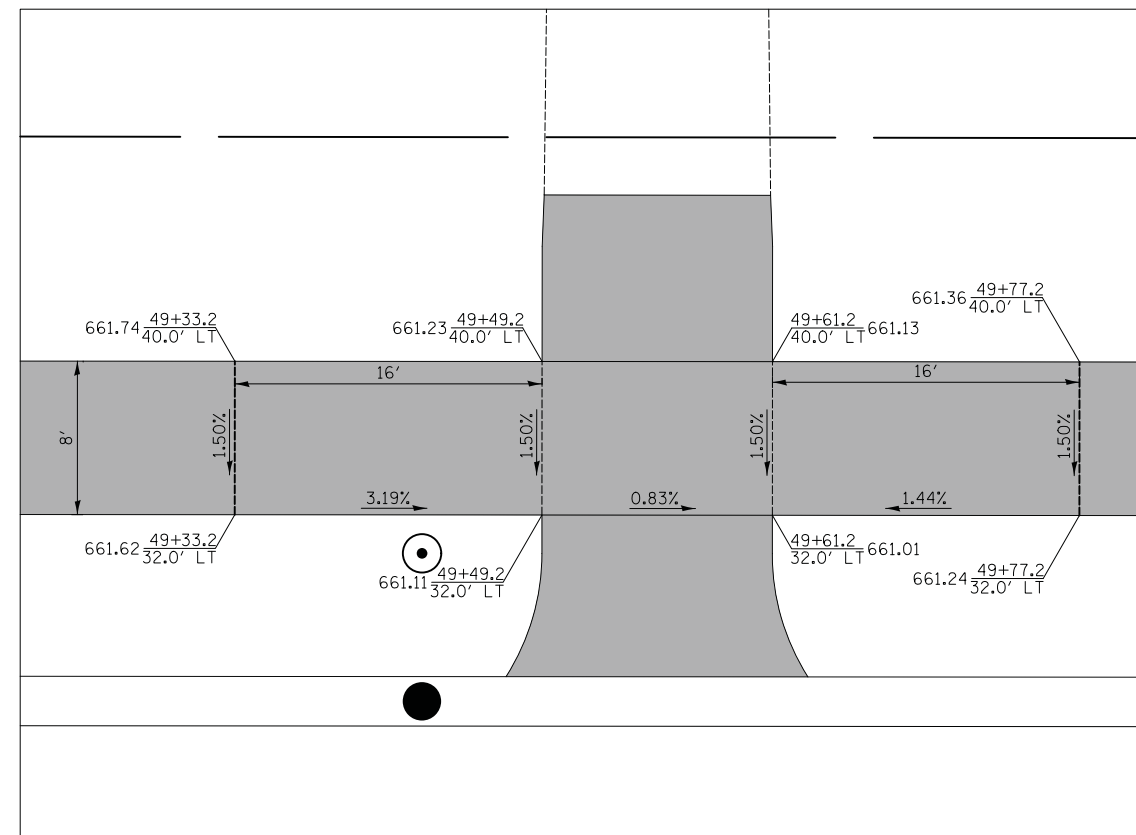
VARIOUS SIDEWALK FROM STA. 46+40 TO 46+85 RT



DRIVEWAY AT STA. 47+25 RT



DRIVEWAY AT STA. 47+74 RT

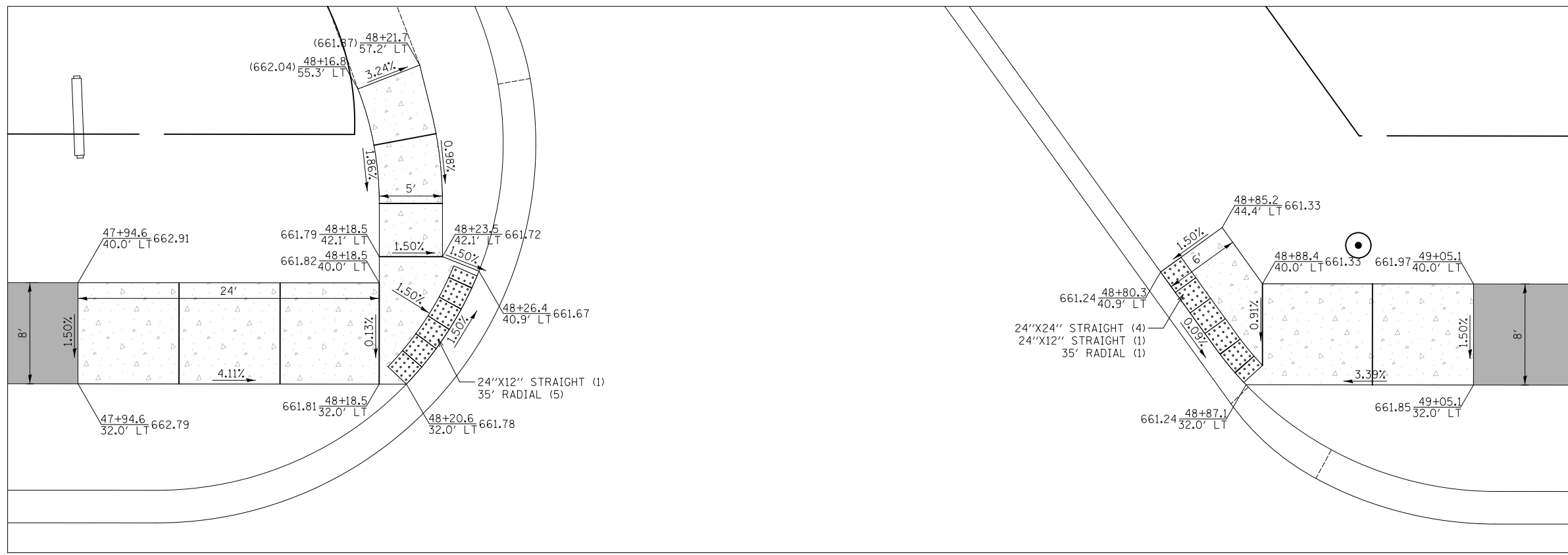


DRIVEWAY AT STA. 49+55 LT

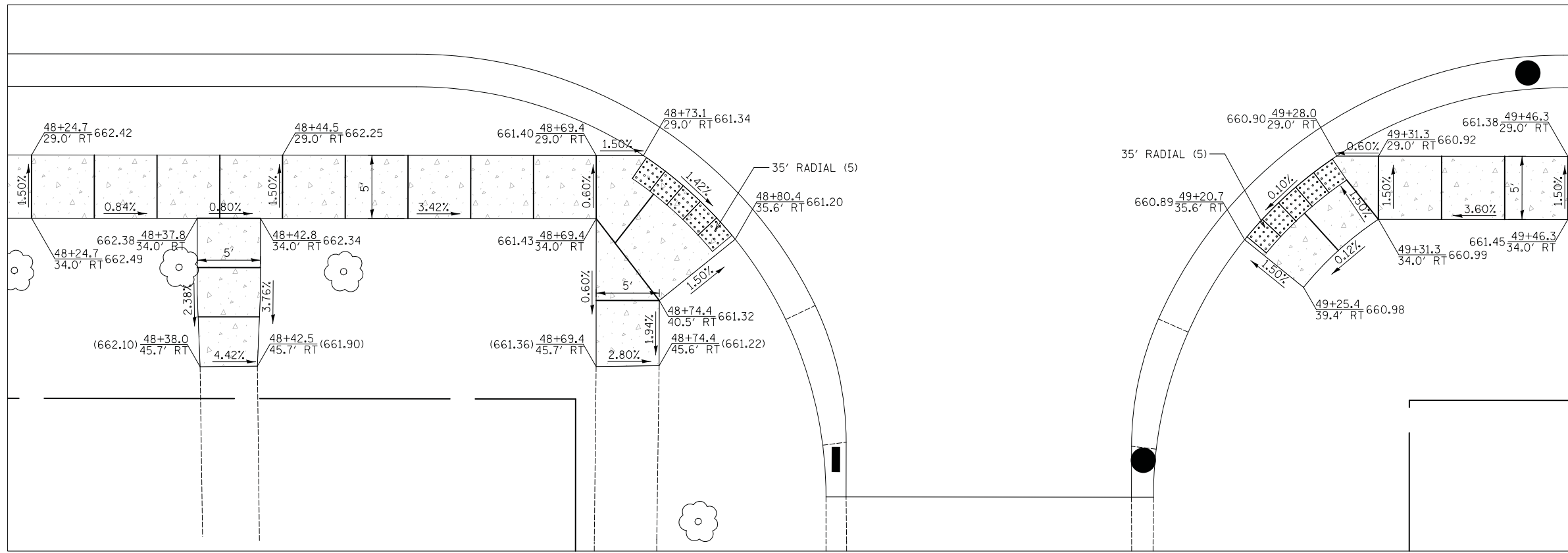


DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
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CROSSWALK  
14TH STREET AND ELMWOOD AVENUE

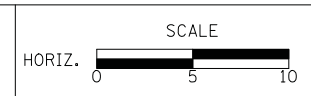


CROSSWALK  
14TH STREET AND KRISTAN AVENUE

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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

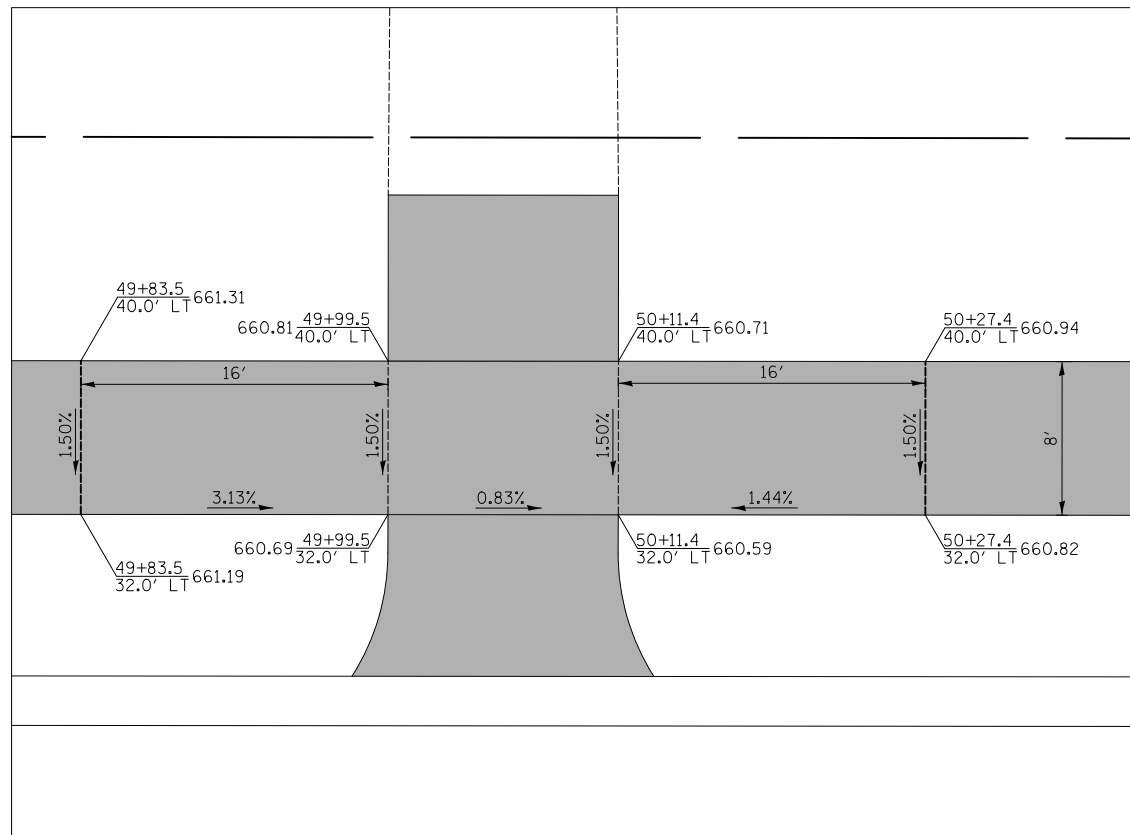


**SIDEWALK RAMP DETAILS**  
SHEET NO. 24 OF 46 SHEETS STA. TO STA.

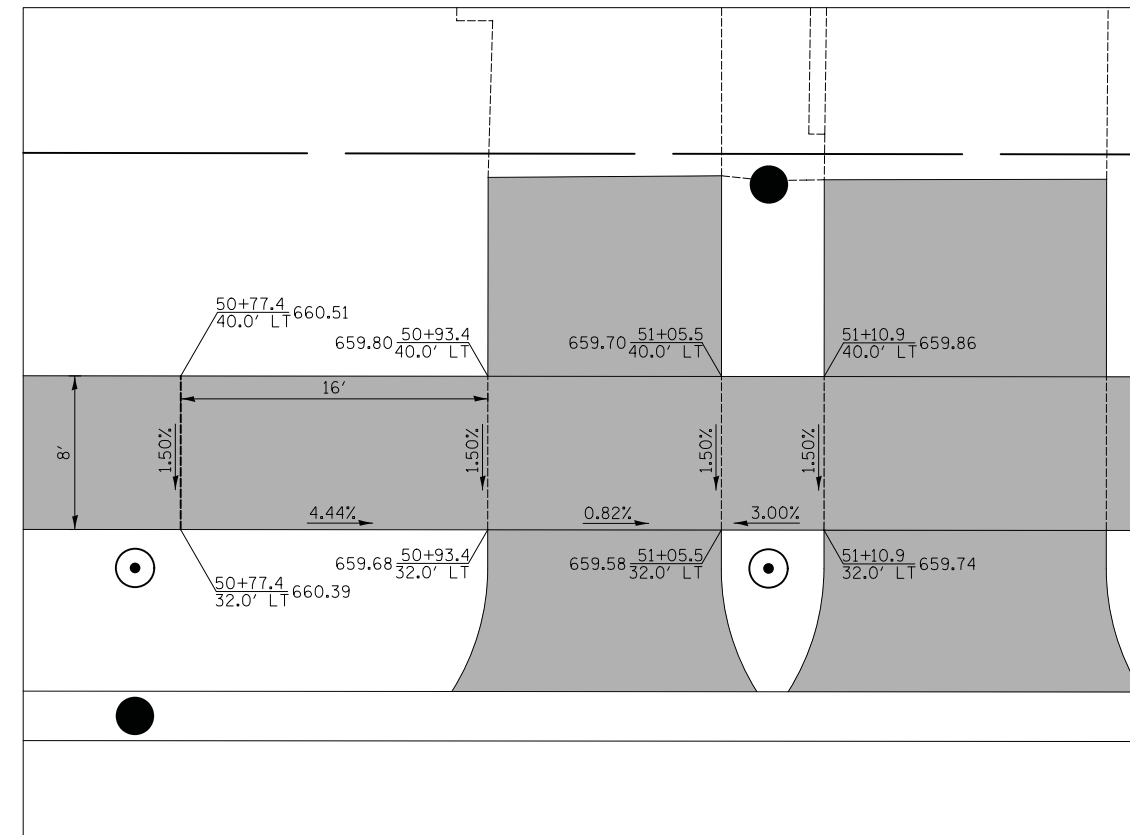
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	319
				CONTRACT NO. 61F33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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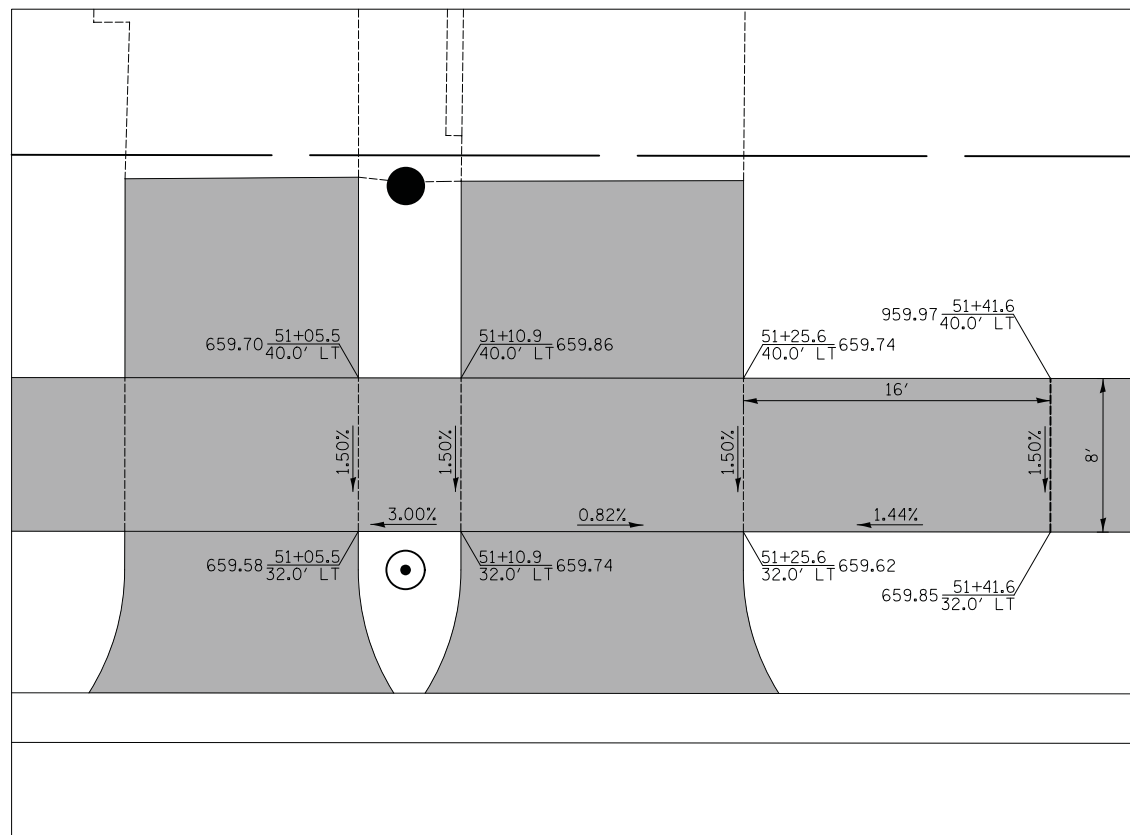
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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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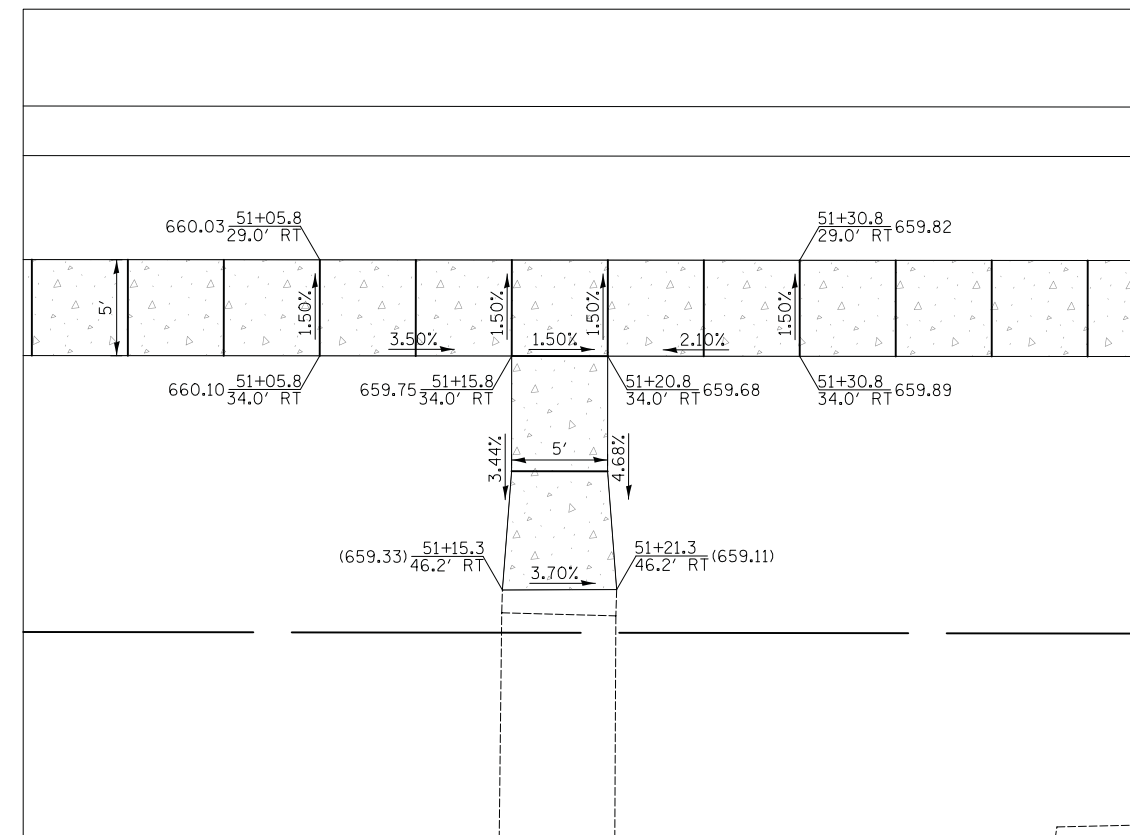
DRIVEWAY AT STA. 50+05 LT



DRIVEWAY AT STA. 50+99 LT



DRIVEWAY AT STA. 51+18 LT



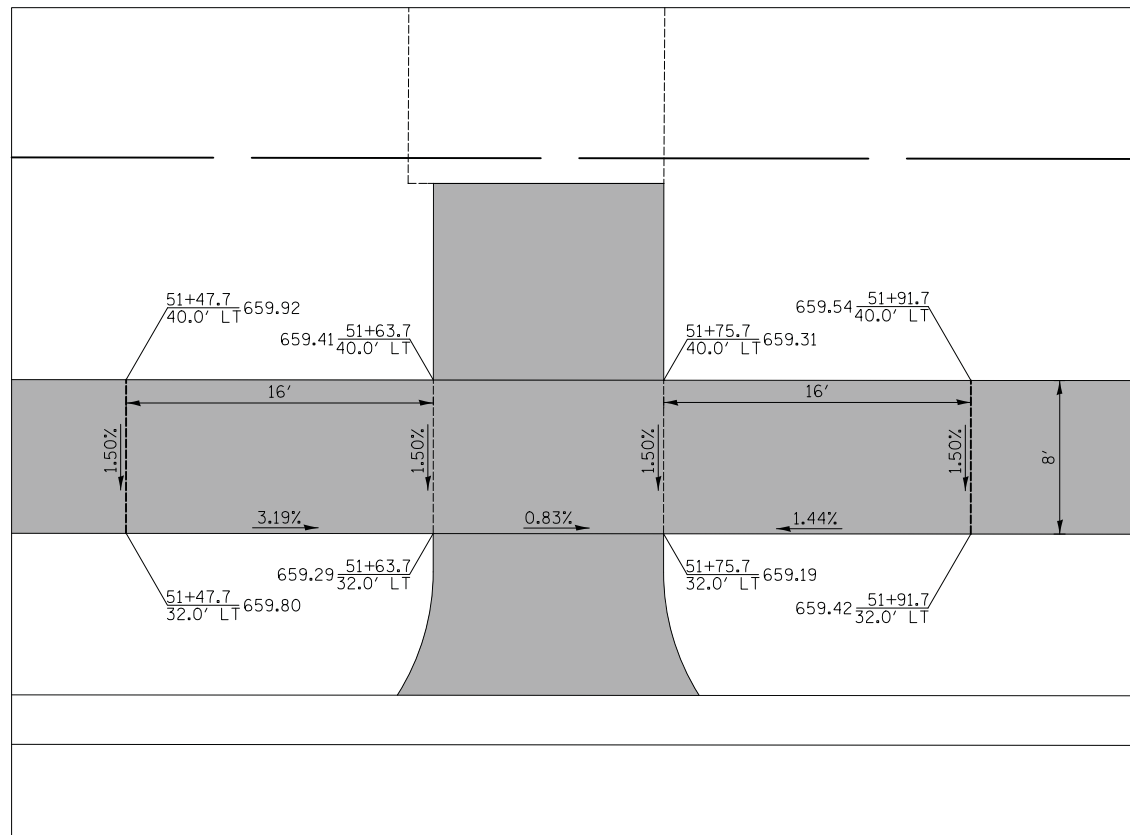
SIDEWALK AT STA. 51+18 RT



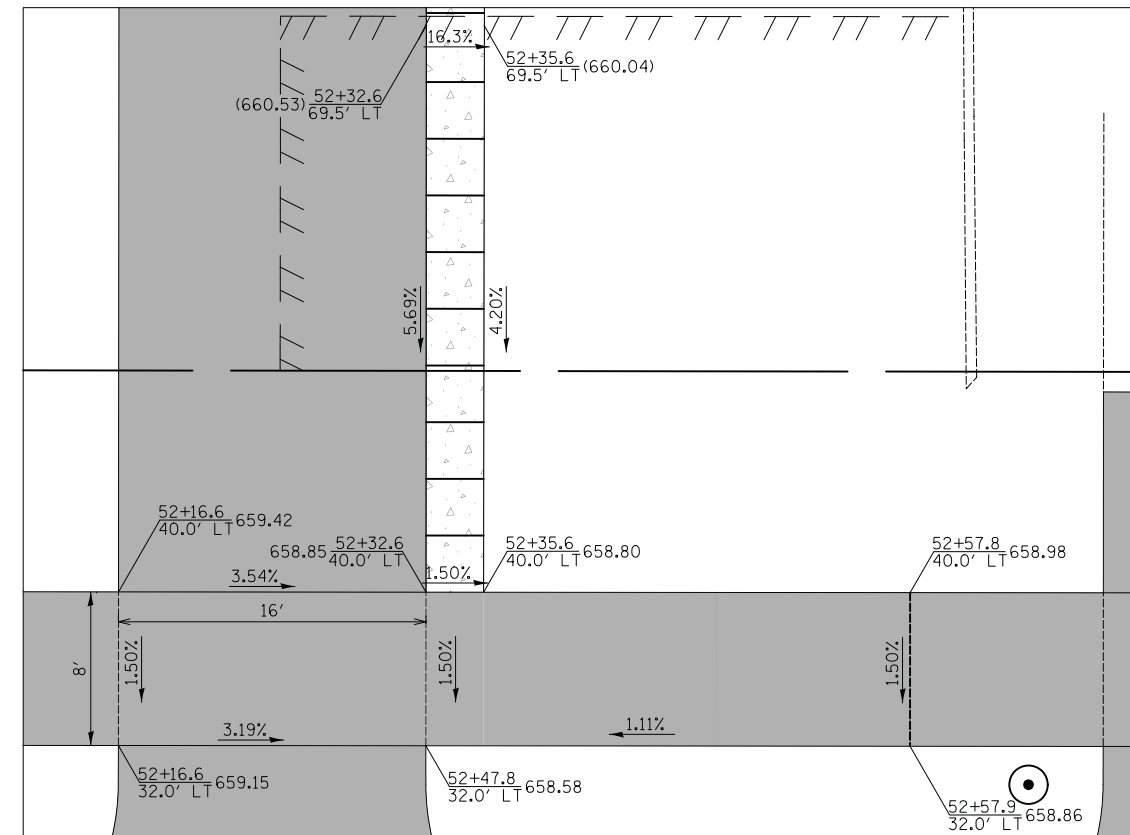


DATE	
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SURVEYED	
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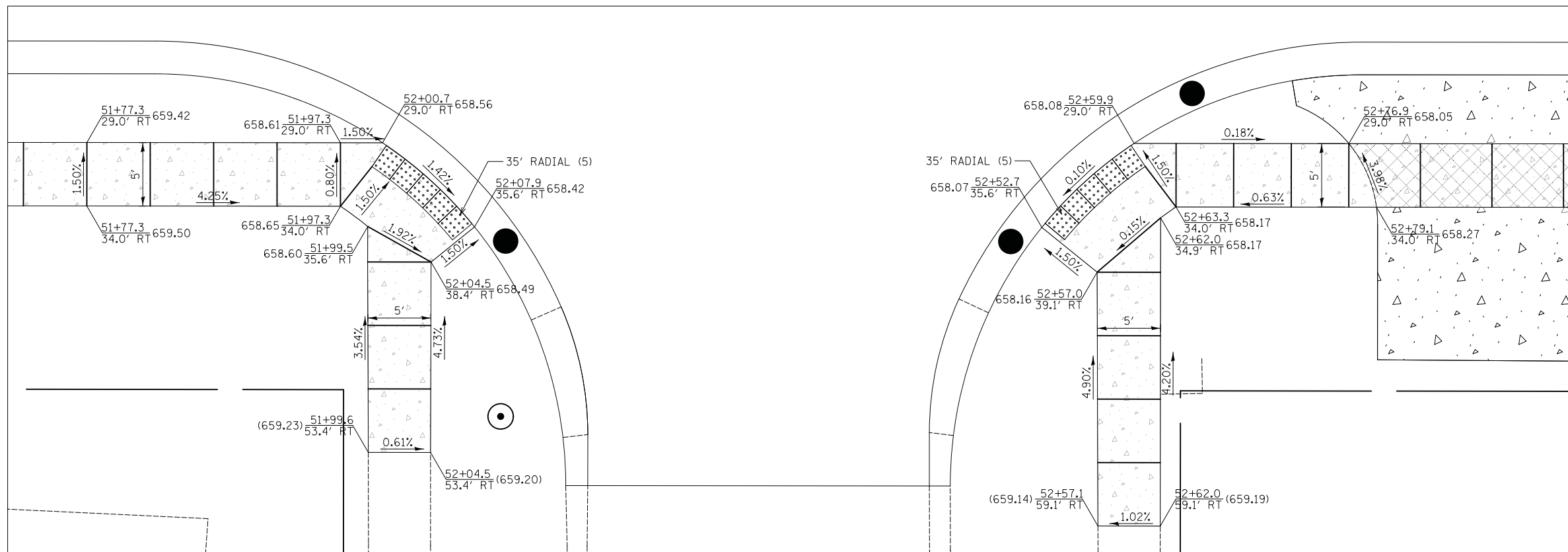
DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



DRIVEWAY AT STA. 51+70 LT



DRIVEWAY AT STA. 52+42 LT



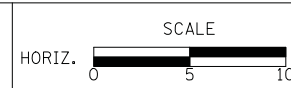
CROSSWALK  
14TH STREET AND HERVEY AVENUE



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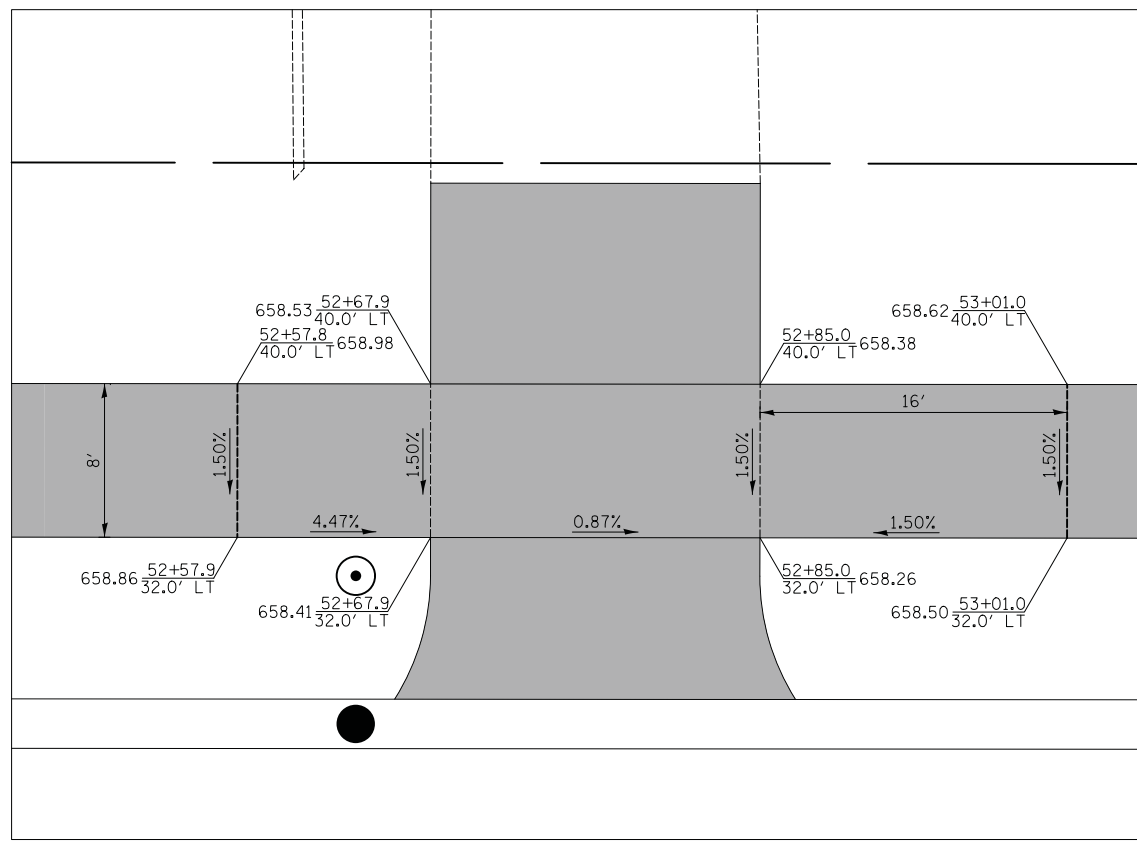
SIDEWALK RAMP DETAILS

SHEET NO. 26 OF 46 SHEETS STA. TO STA.

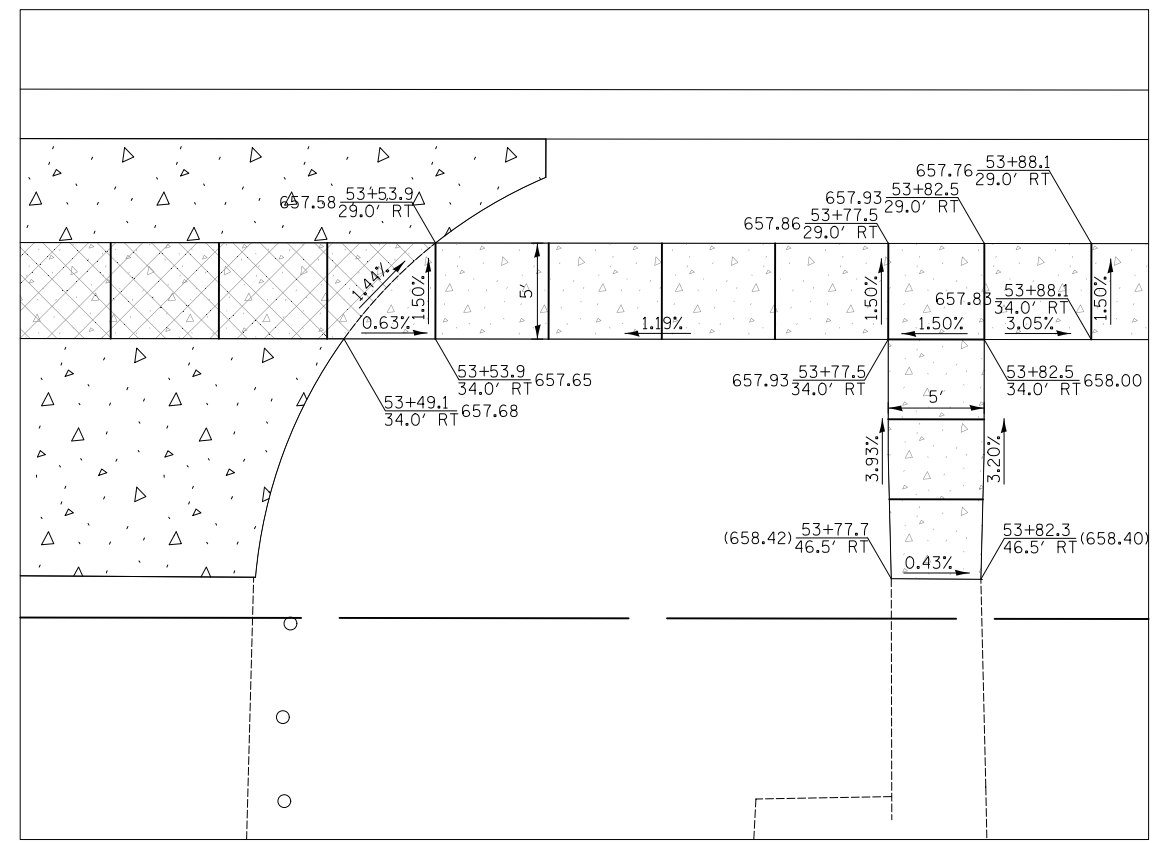
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	321
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
FINIAL SURVEY	NOTE BOOK	NO.			

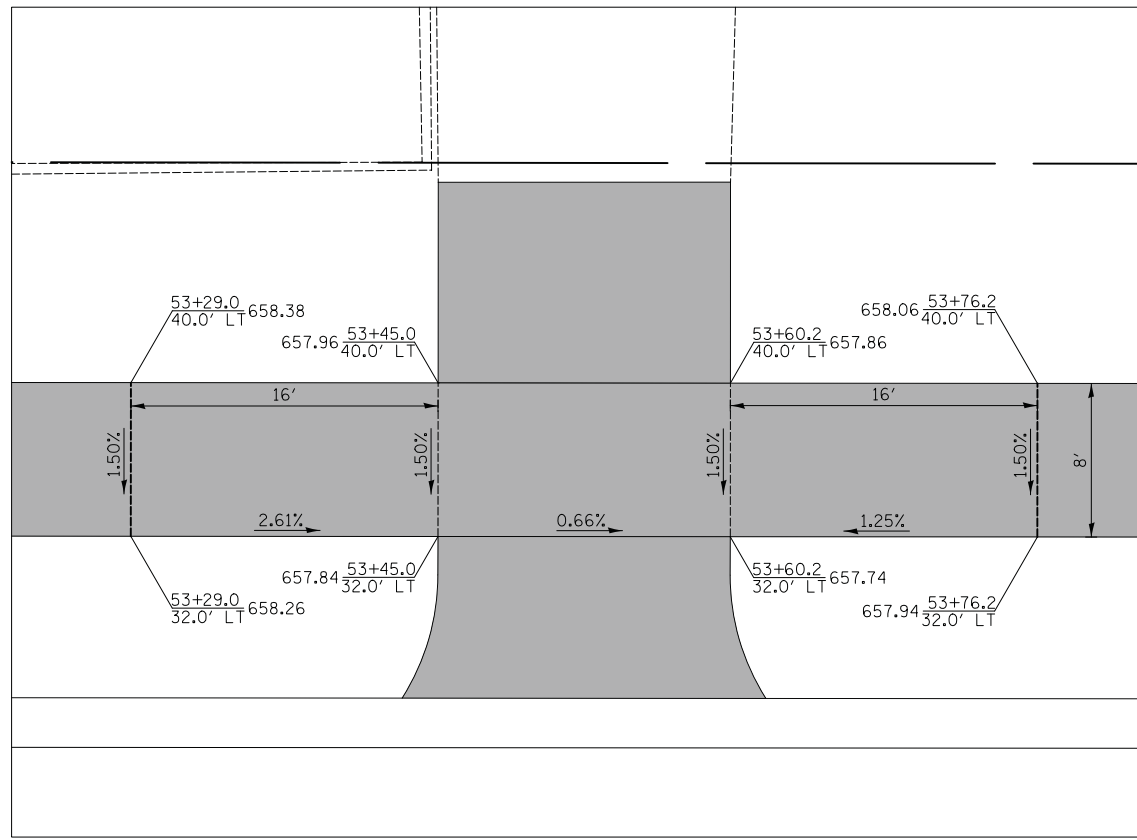
DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
ORIGINAL SURVEY	NOTE BOOK	NO.			



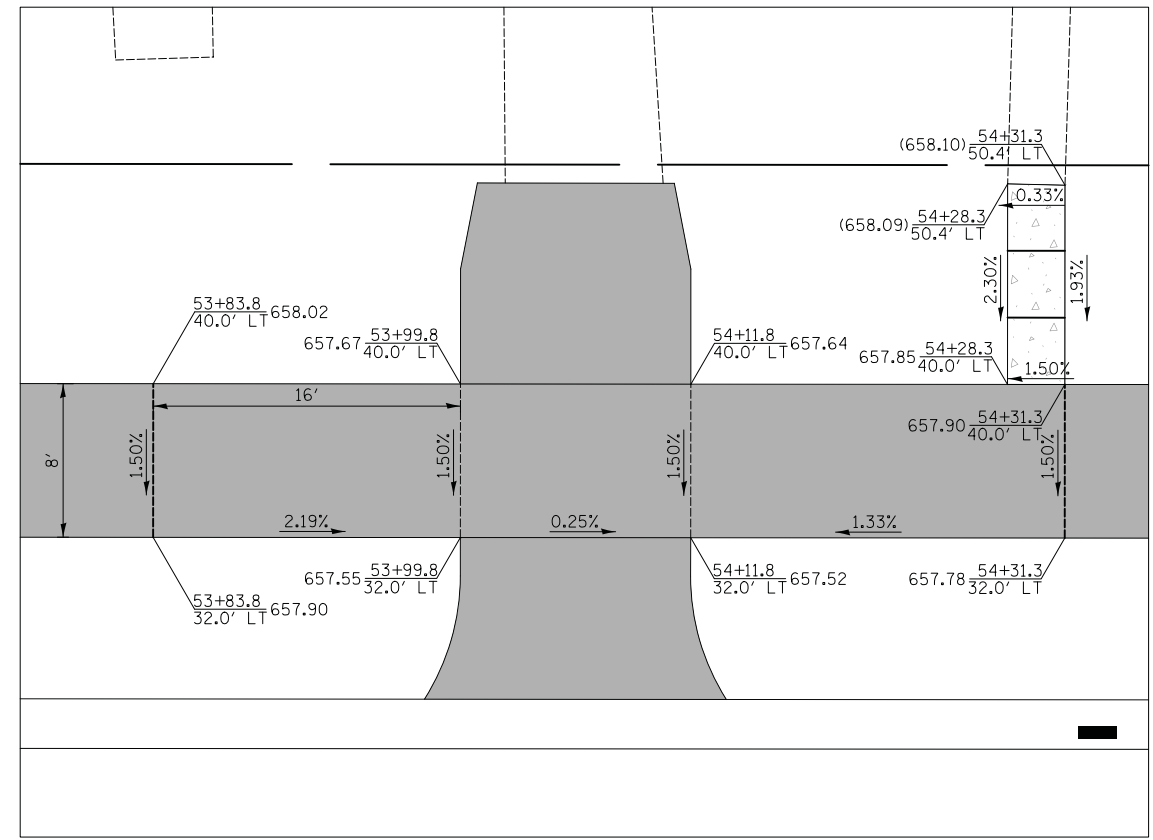
DRIVEWAY AT STA. 52+72 LT



DRIVEWAY AT STA. 53+37 RT



DRIVEWAY AT STA. 53+53 LT

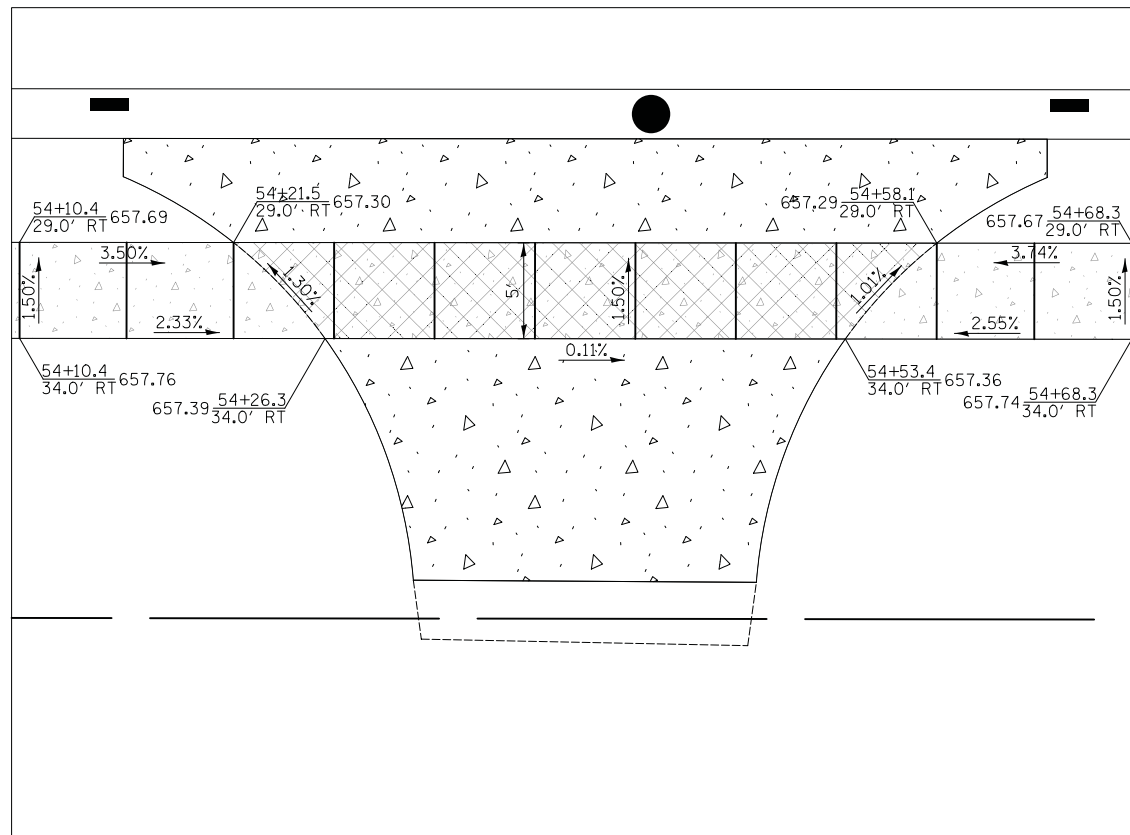


DRIVEWAY AT STA. 54+06 LT

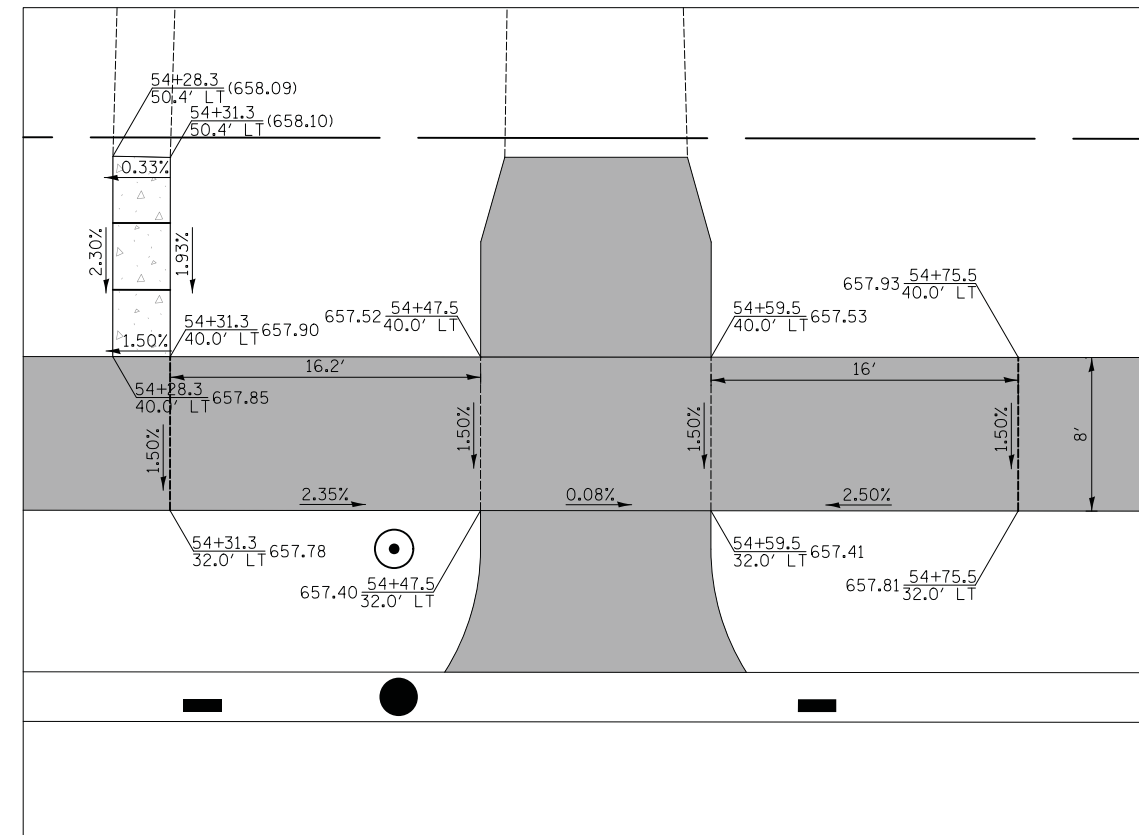


DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
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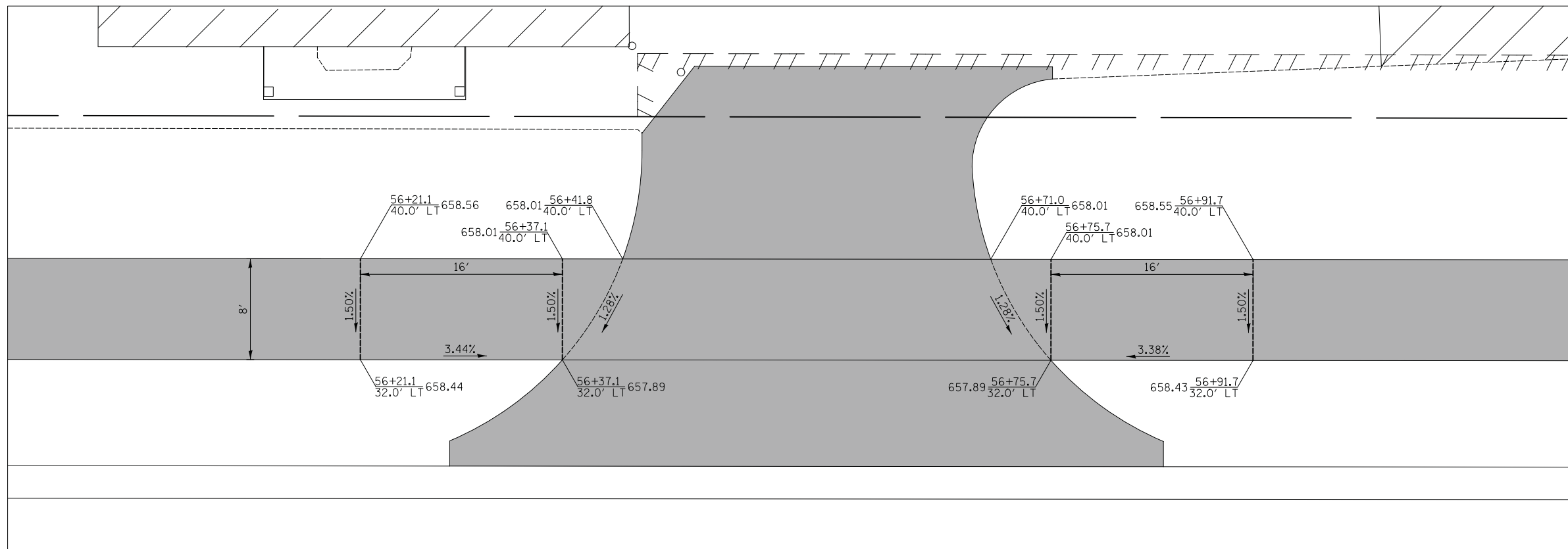
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	



DRIVEWAY AT STA. 54+40 RT



DRIVEWAY AT STA. 54+53 LT



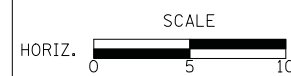
DRIVEWAY AT STA. 56+56 LT



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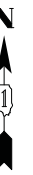


SIDEWALK RAMP DETAILS

SHEET NO. 28 OF 46 SHEETS STA. TO STA.

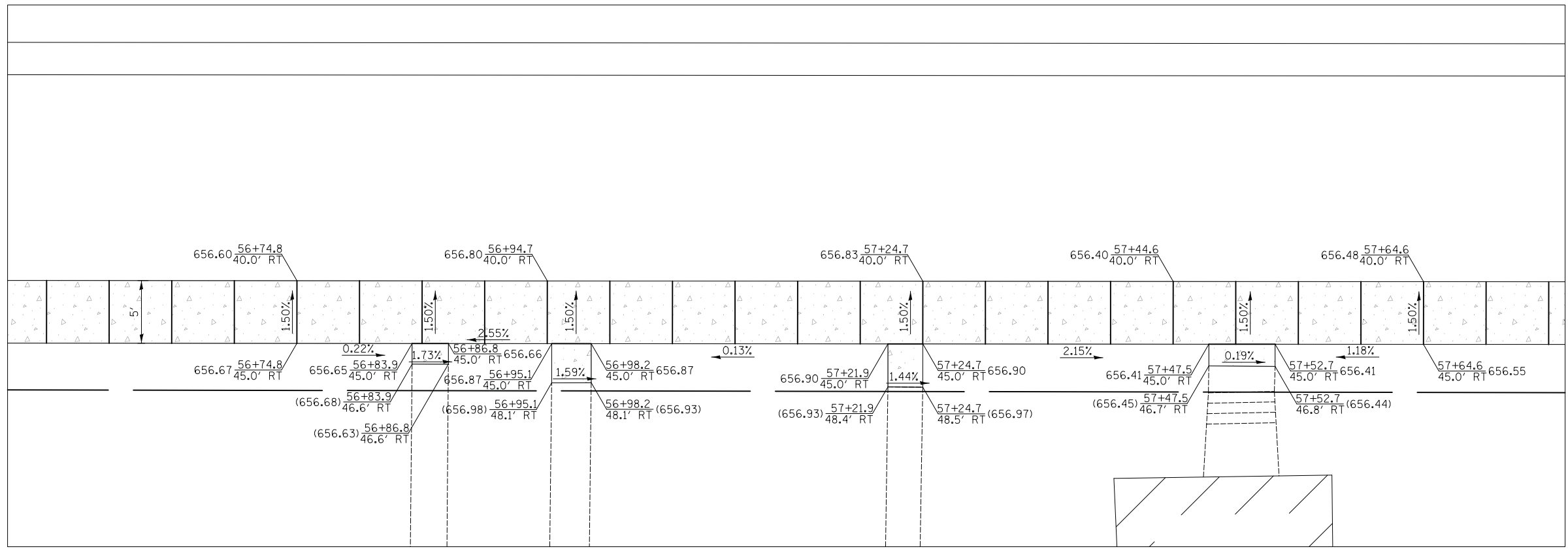
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	323
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



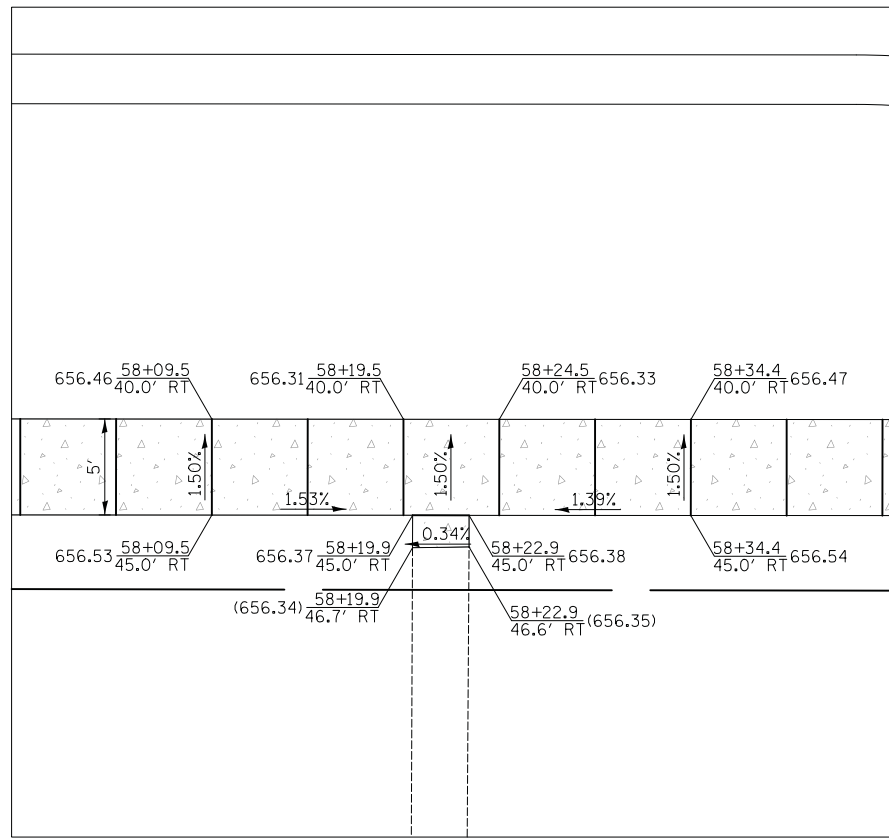


DATE	
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FINAL	
SURVEY	
NOTE BOOK	
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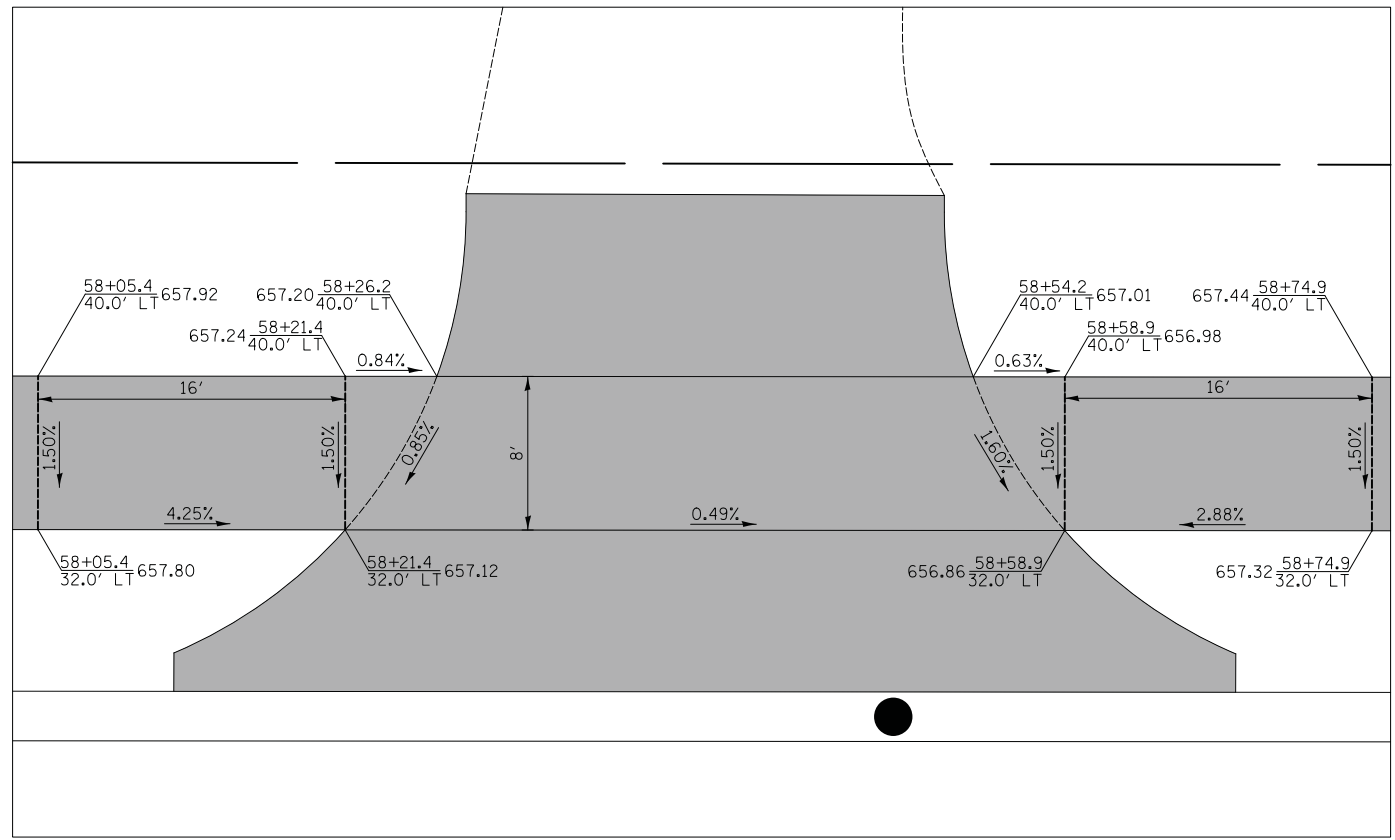
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
SURVEY	
NOTE BOOK	
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VARIOUS SIDEWALK FROM STA. 56+85 TO 57+50 RT



SIDEWALK AT STA. 58+20 RT

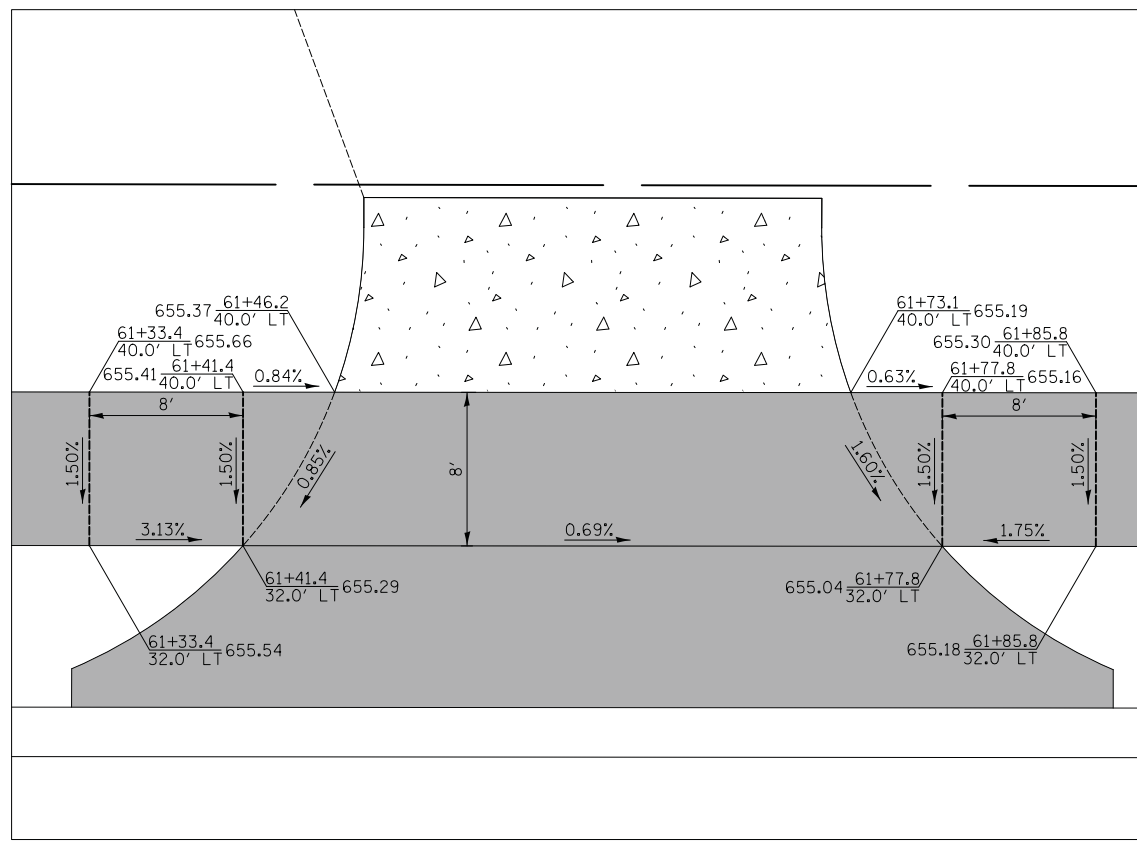


DRIVEWAY AT STA. 58+40 LT

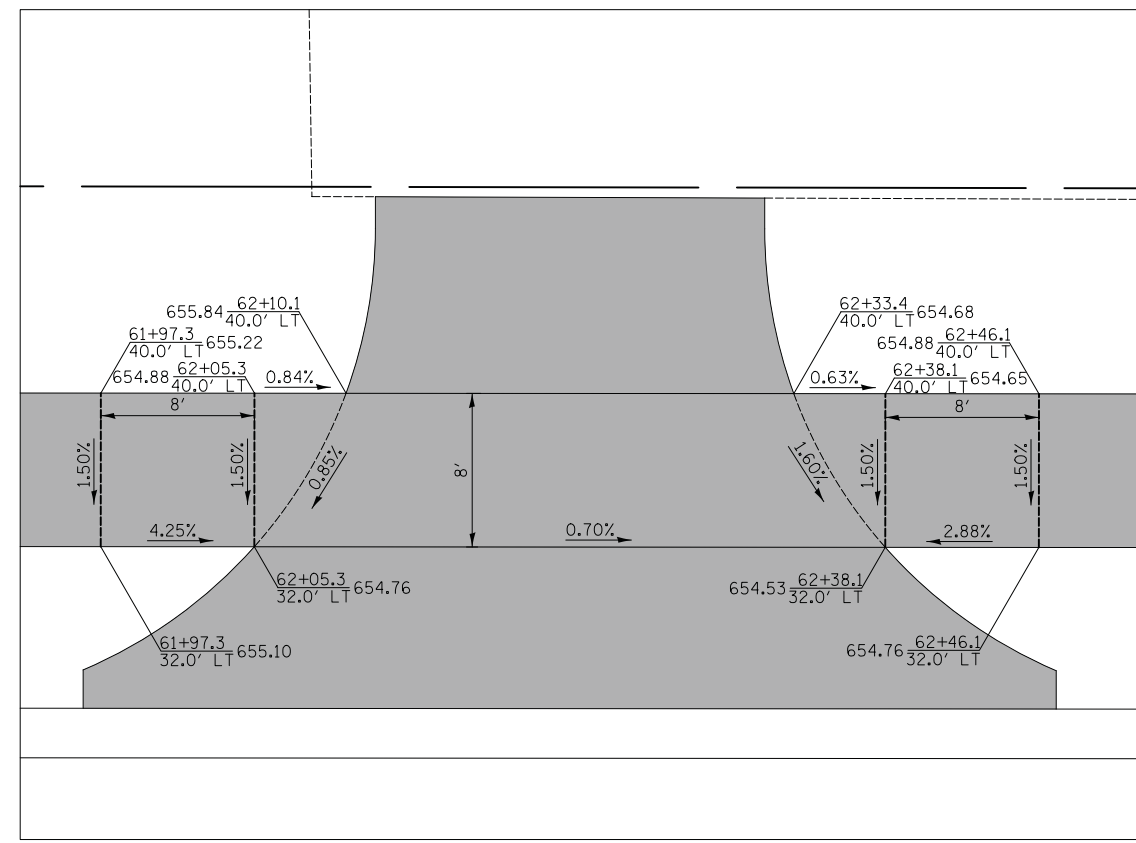




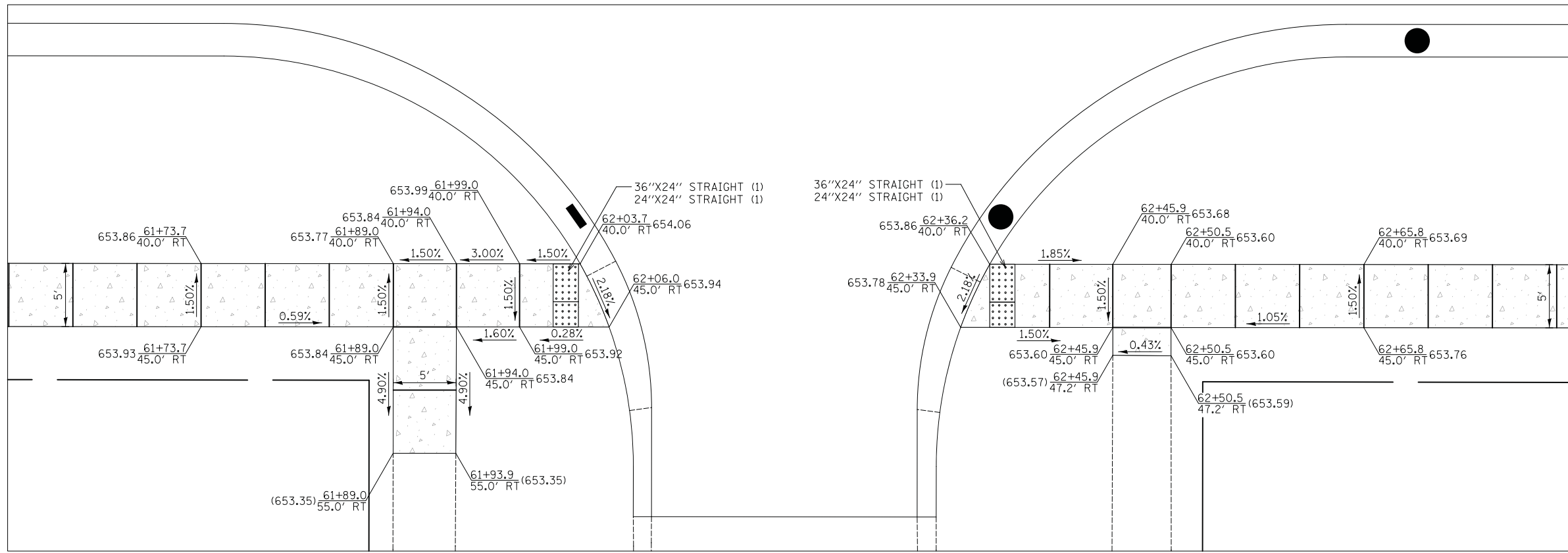




DRIVEWAY AT STA. 61+60 LT



DRIVEWAY AT STA. 62+22 LT



CROSSWALK  
14TH STREET AND ELIZABETH AVENUE

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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DATE	
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SURVEYED	
PLOTTED	
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AREAS	
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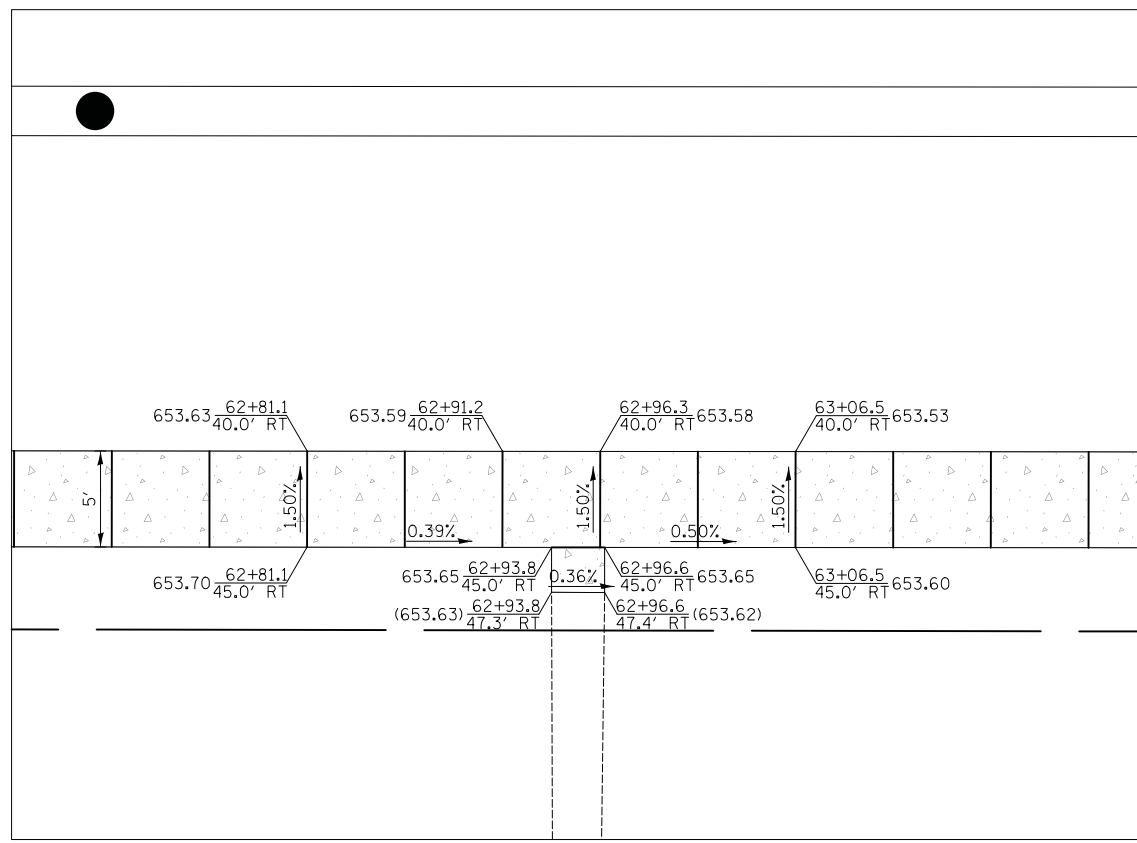
SIDEWALK RAMP DETAILS

SHEET NO. 33 OF 46 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	328
				CONTRACT NO. 61F33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



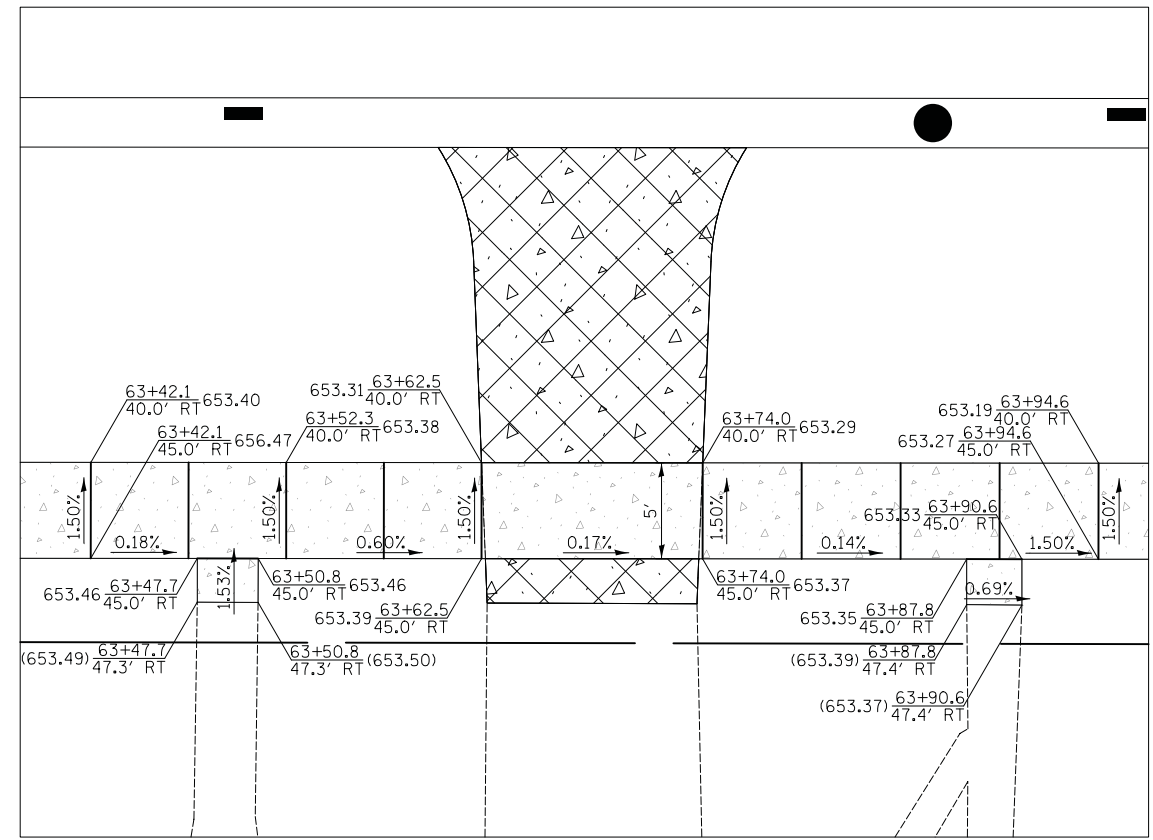
SIDEWALK AT STA. 62+95 RT



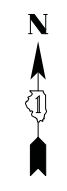
DRIVEWAY AT STA. 63+01 LT



DRIVEWAY AT STA. 63+56 LT

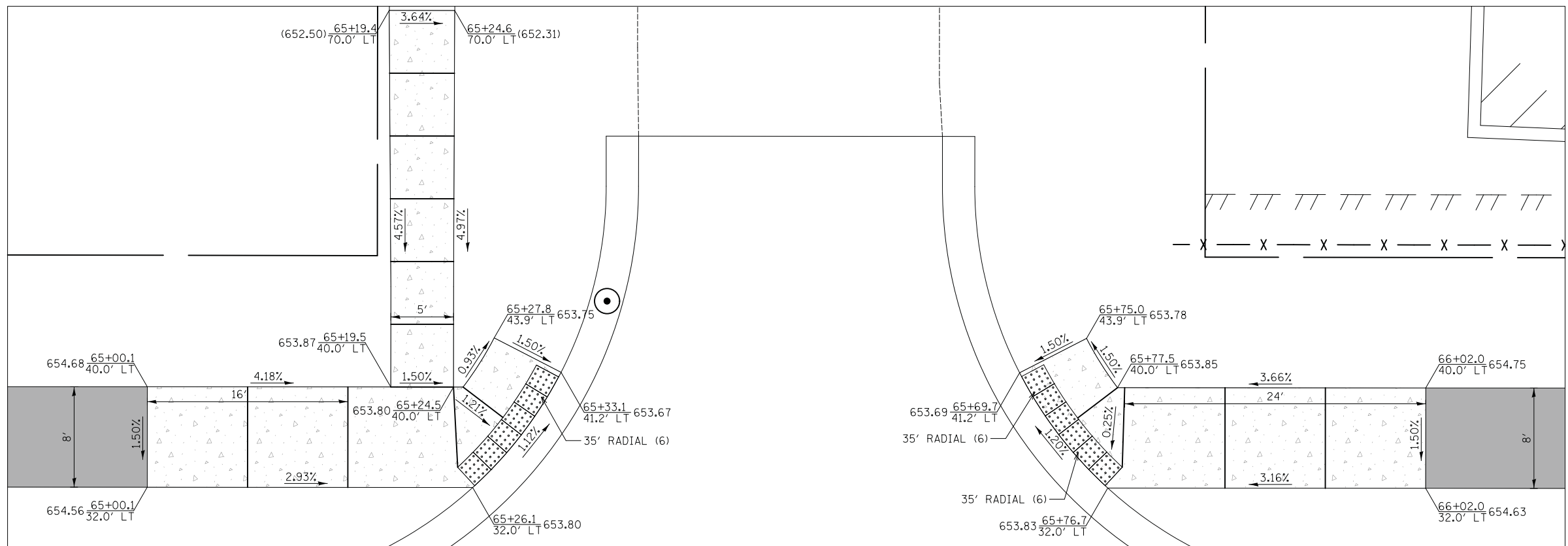


DRIVEWAY AT STA. 63+68 RT

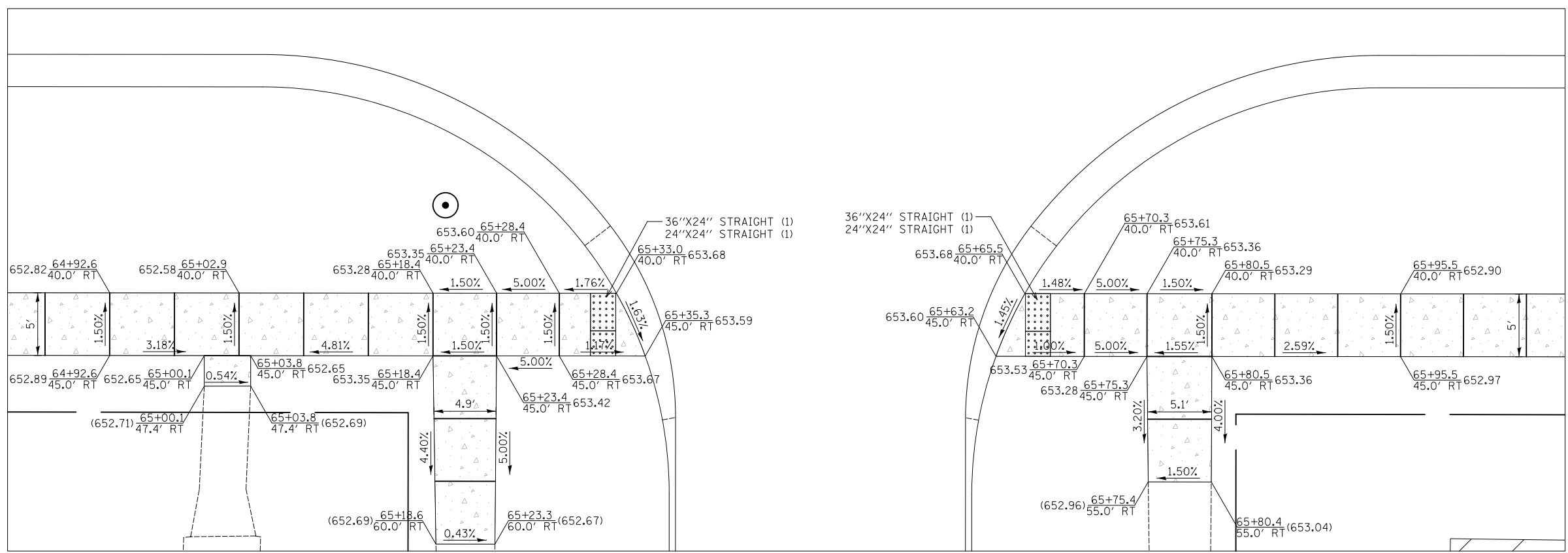


FINAL SURVEY NO.	DATE
SURVEYED BY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
SURVEYED BY	
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TEMPLATE	
AREAS CHECKED	



NORTH CROSSWALK  
14TH STREET AND GREENFIELD AVENUE

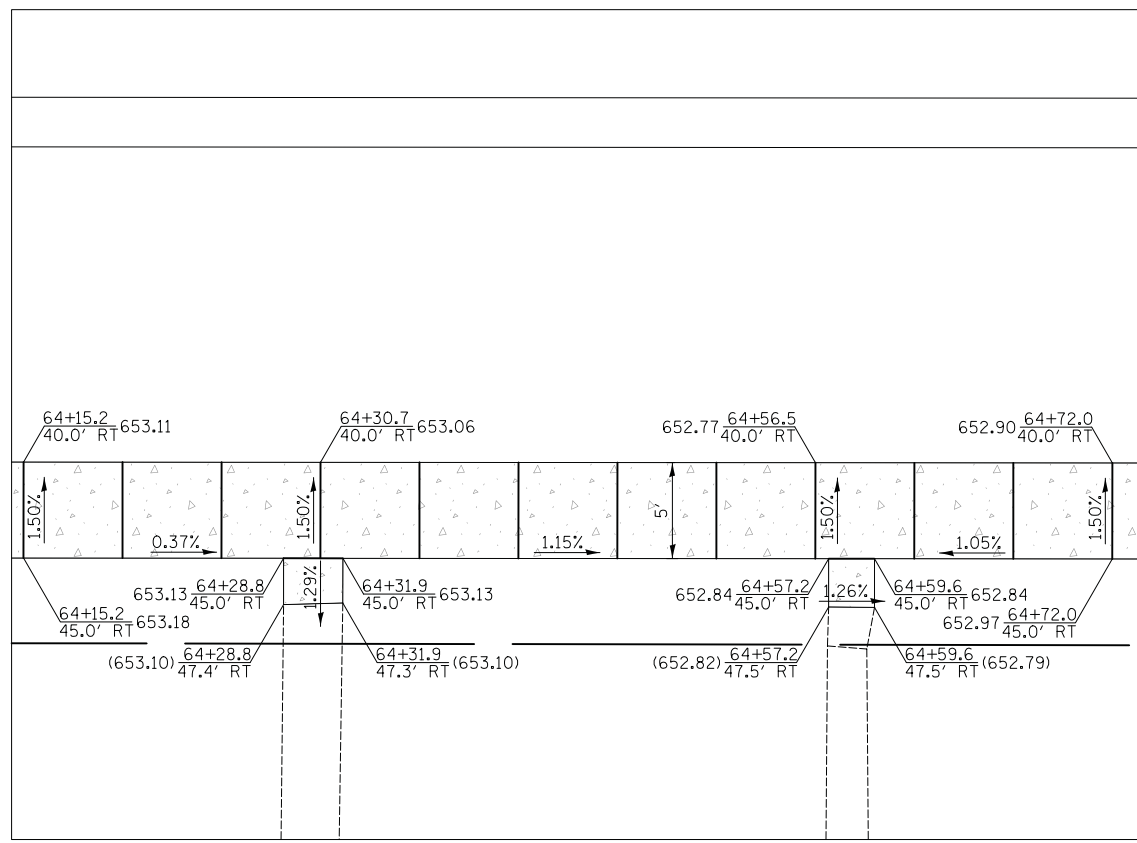


SOUTH CROSSWALK  
14TH STREET AND GREENFIELD AVENUE

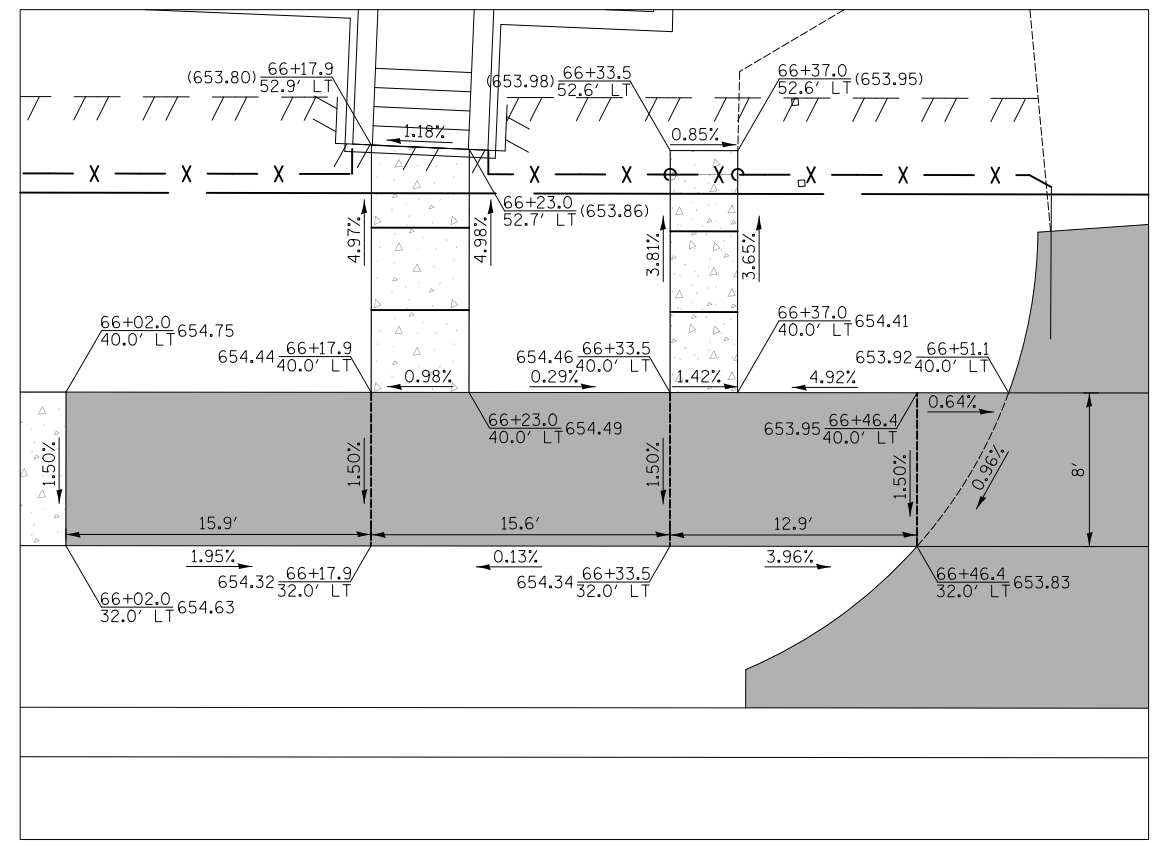


FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

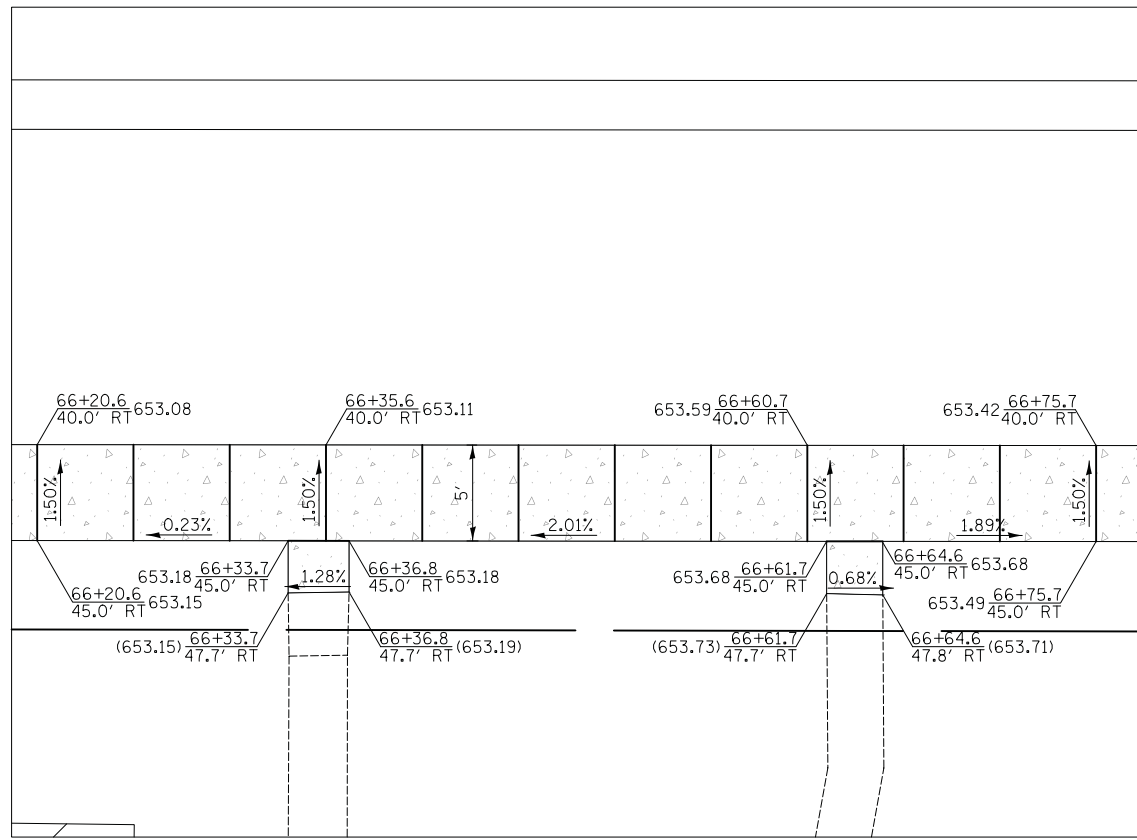
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



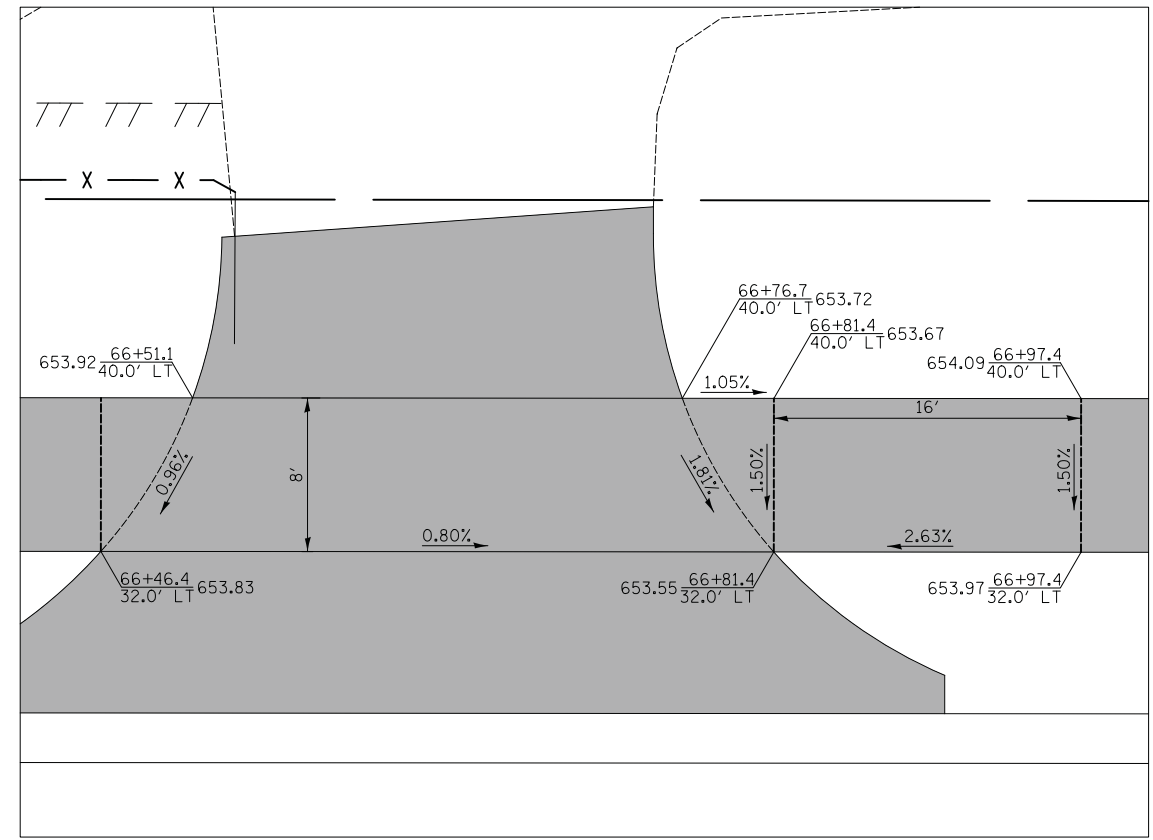
VARIOUS SIDEWALK FROM STA. 64+30 TO 64+60 RT



VARIOUS SIDEWALK FROM STA. 66+20 TO 66+35 LT



VARIOUS SIDEWALK FROM STA. 66+35 TO 66+65 RT

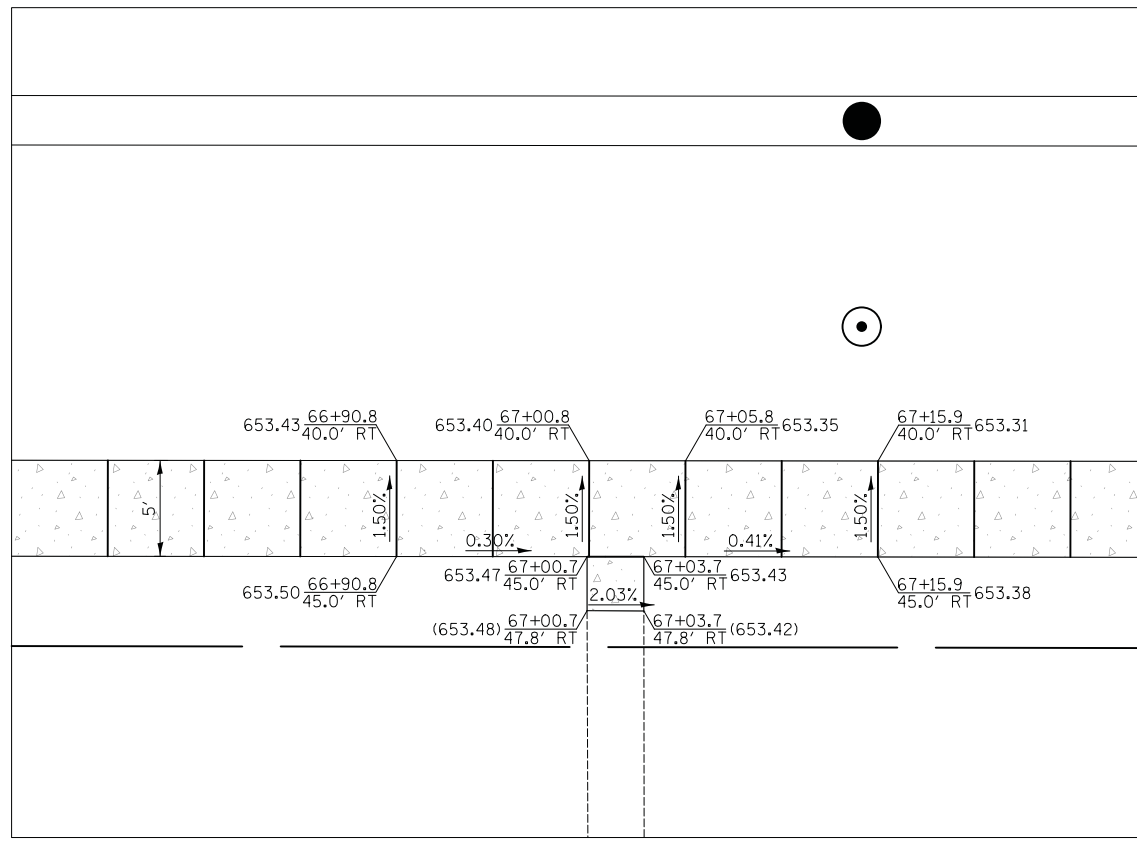


DRIVEWAY AT STA. 66+64 LT

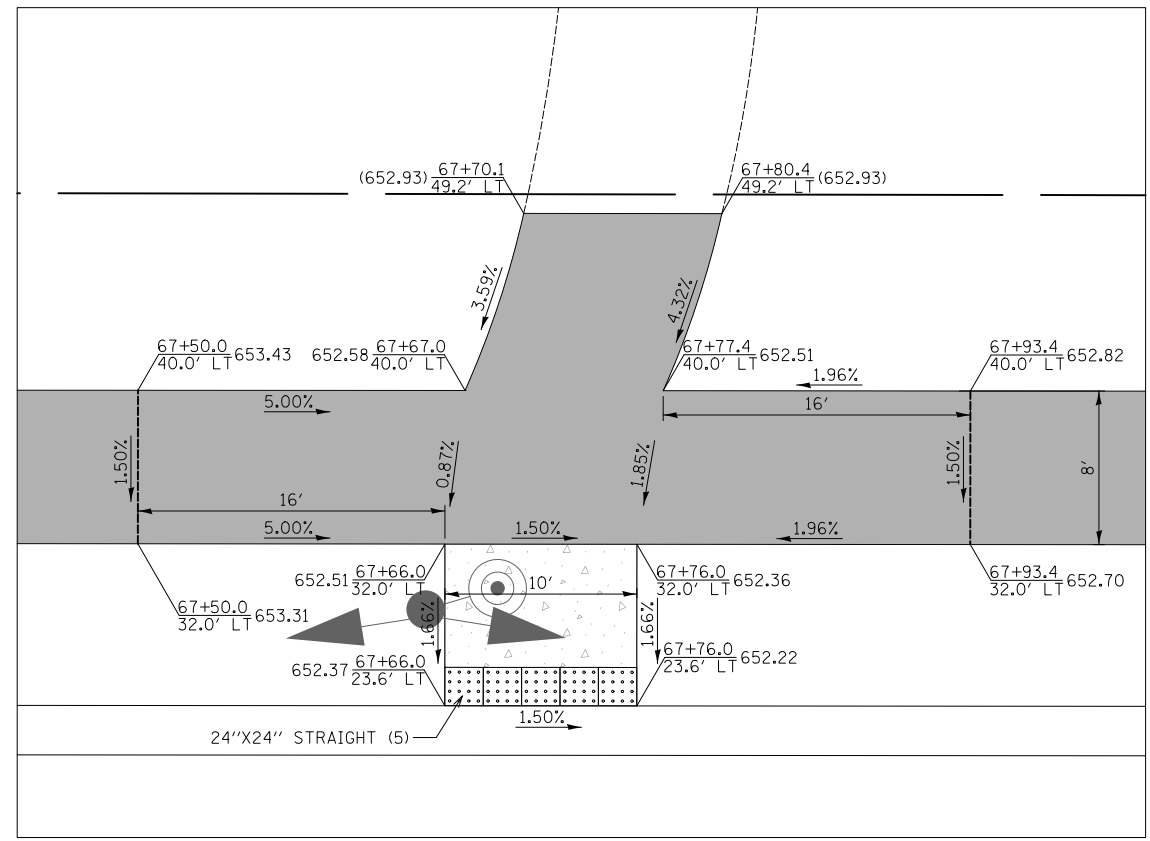


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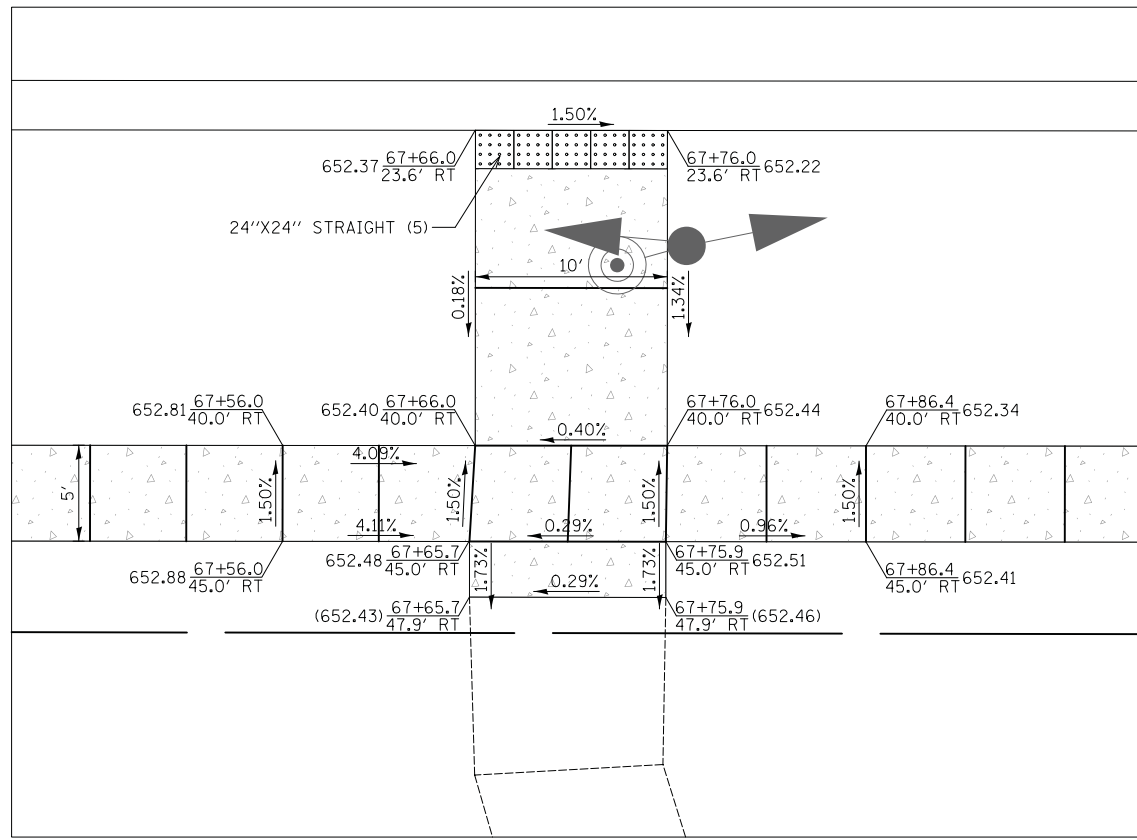
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SURVEYED	
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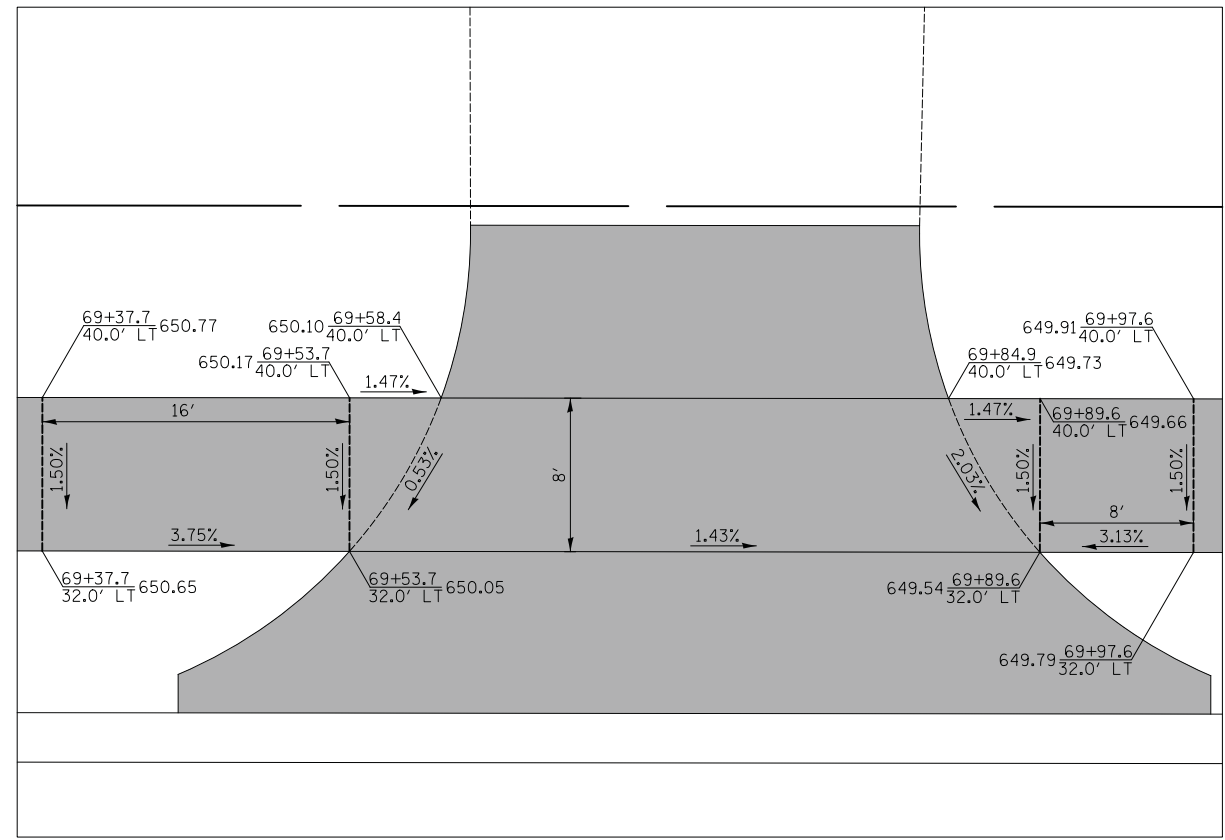
SIDEWALK AT STA. 67+00 RT



SIDEWALK AT STA. 67+70 LT



SIDEWALK AT STA. 67+70 RT

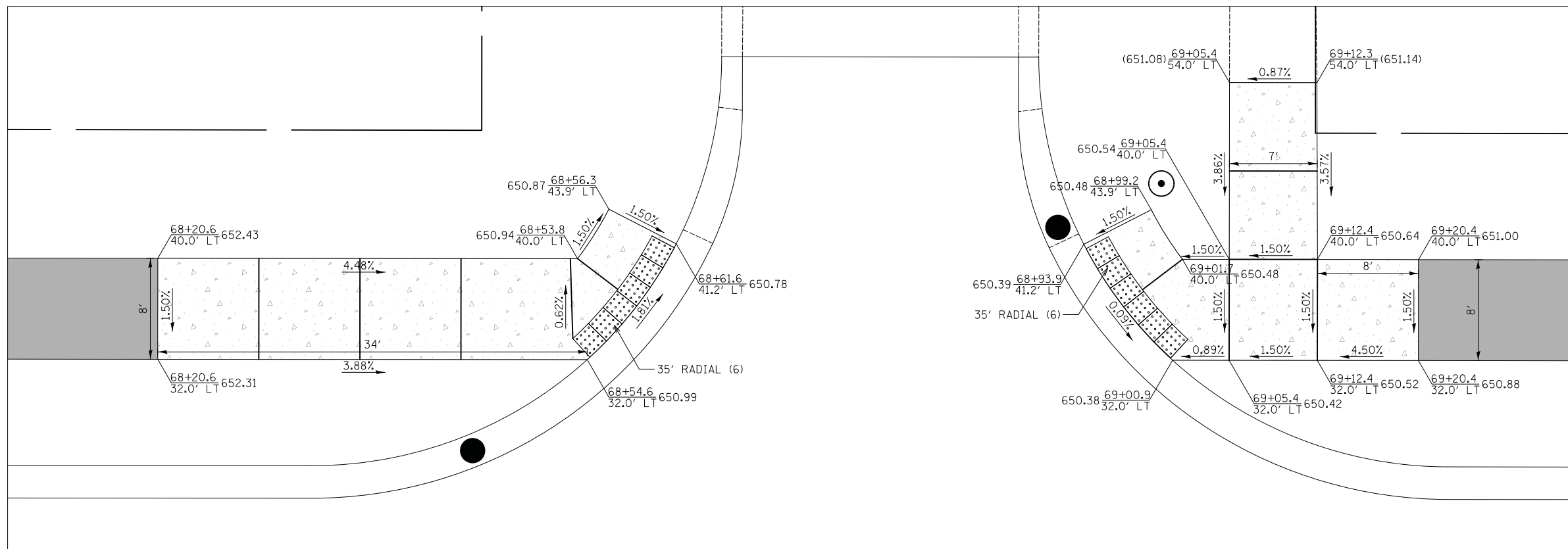


DRIVEWAY AT STA. 69+72 LT

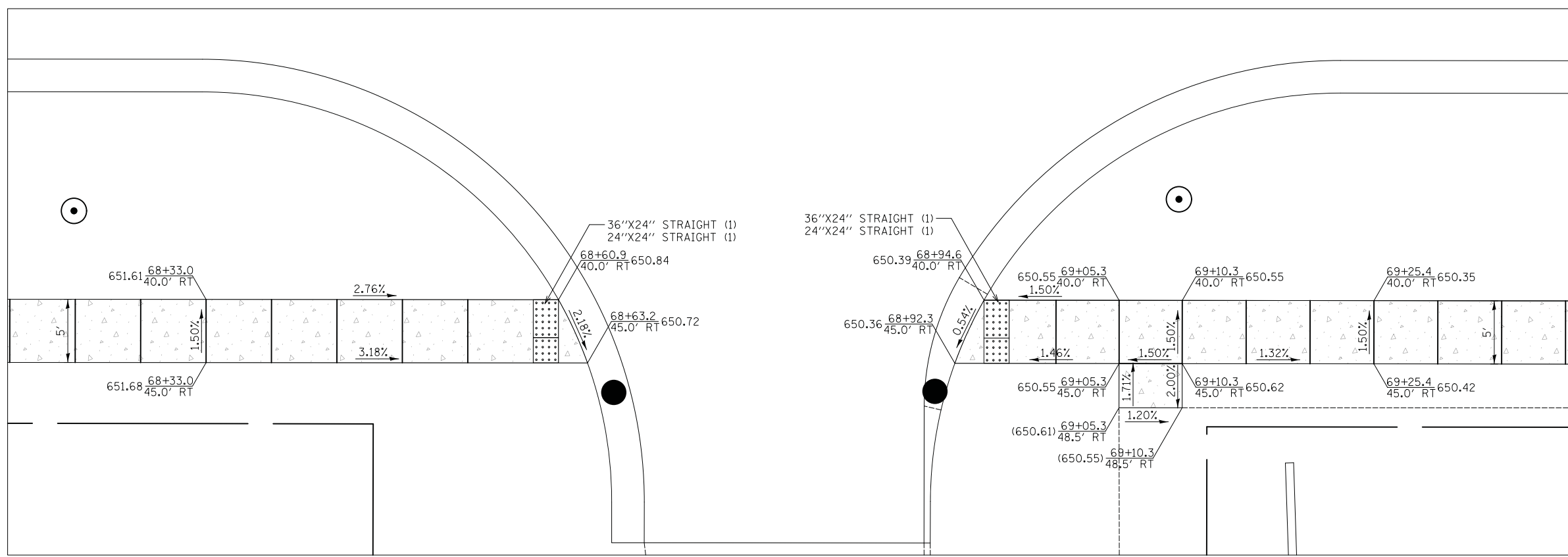


DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



NORTH CROSSWALK  
14TH STREET AND GLENN DRIVE

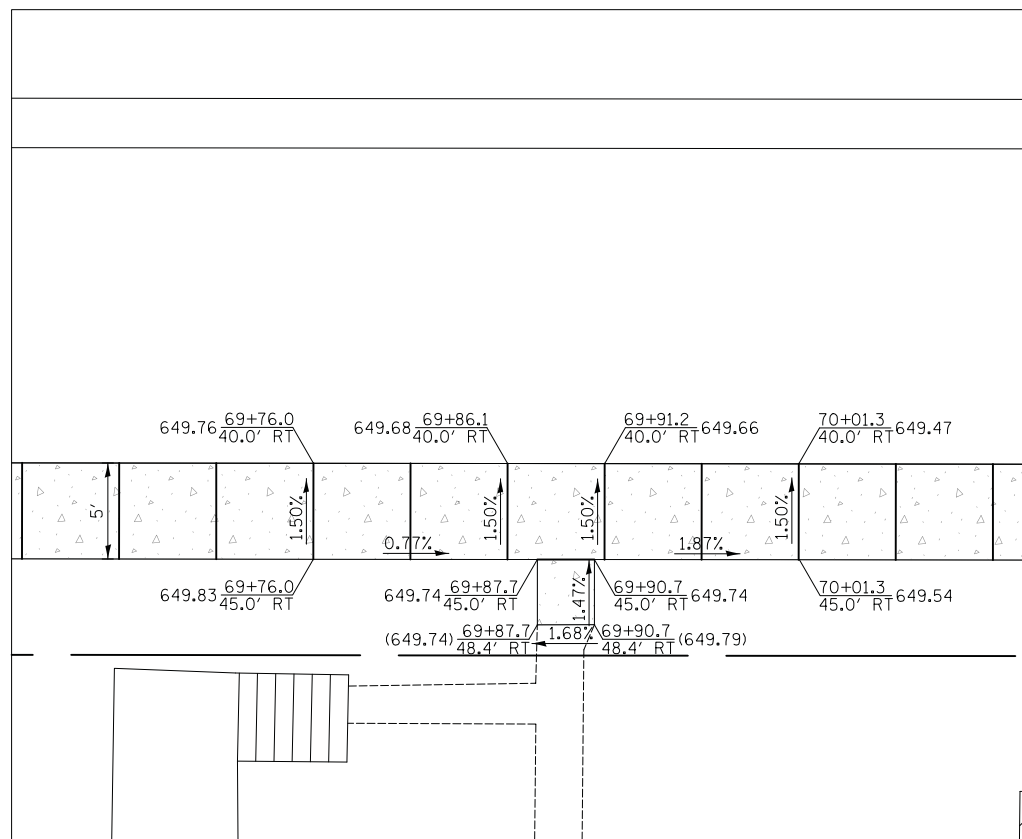


SOUTH CROSSWALK  
14TH STREET AND GLENN DRIVE

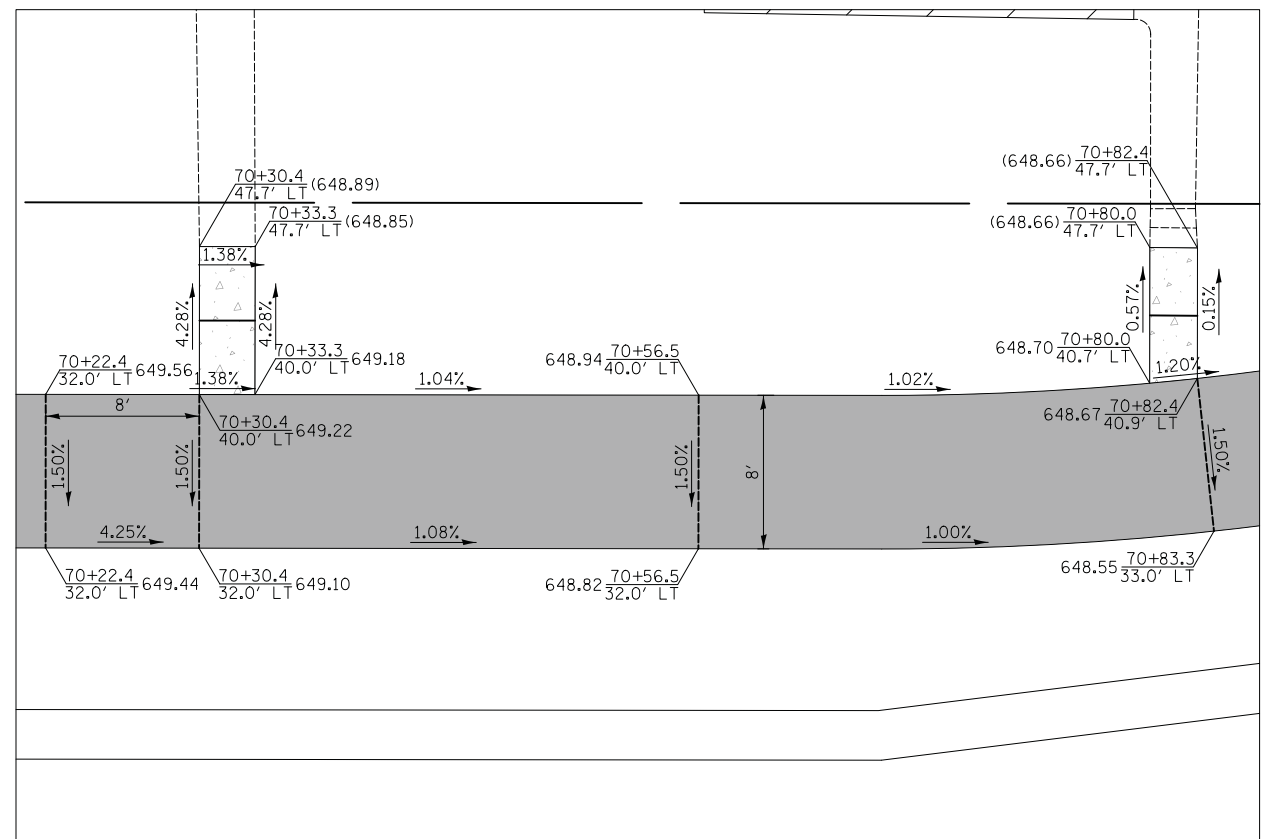


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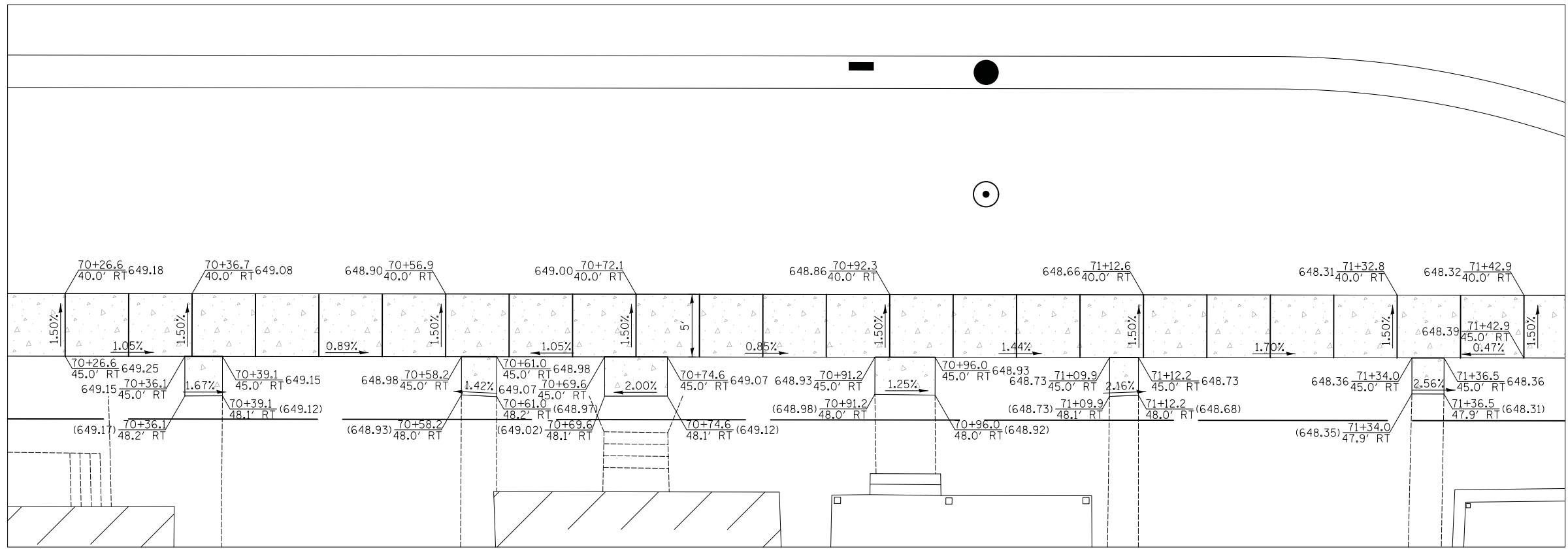
DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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SIDEWALK AT STA. 69+90 RT



VARIOUS SIDEWALK FROM STA. 70+30 TO 70+80 LT



VARIOUS SIDEWALK FROM STA. 70+35 TO 71+35 RT



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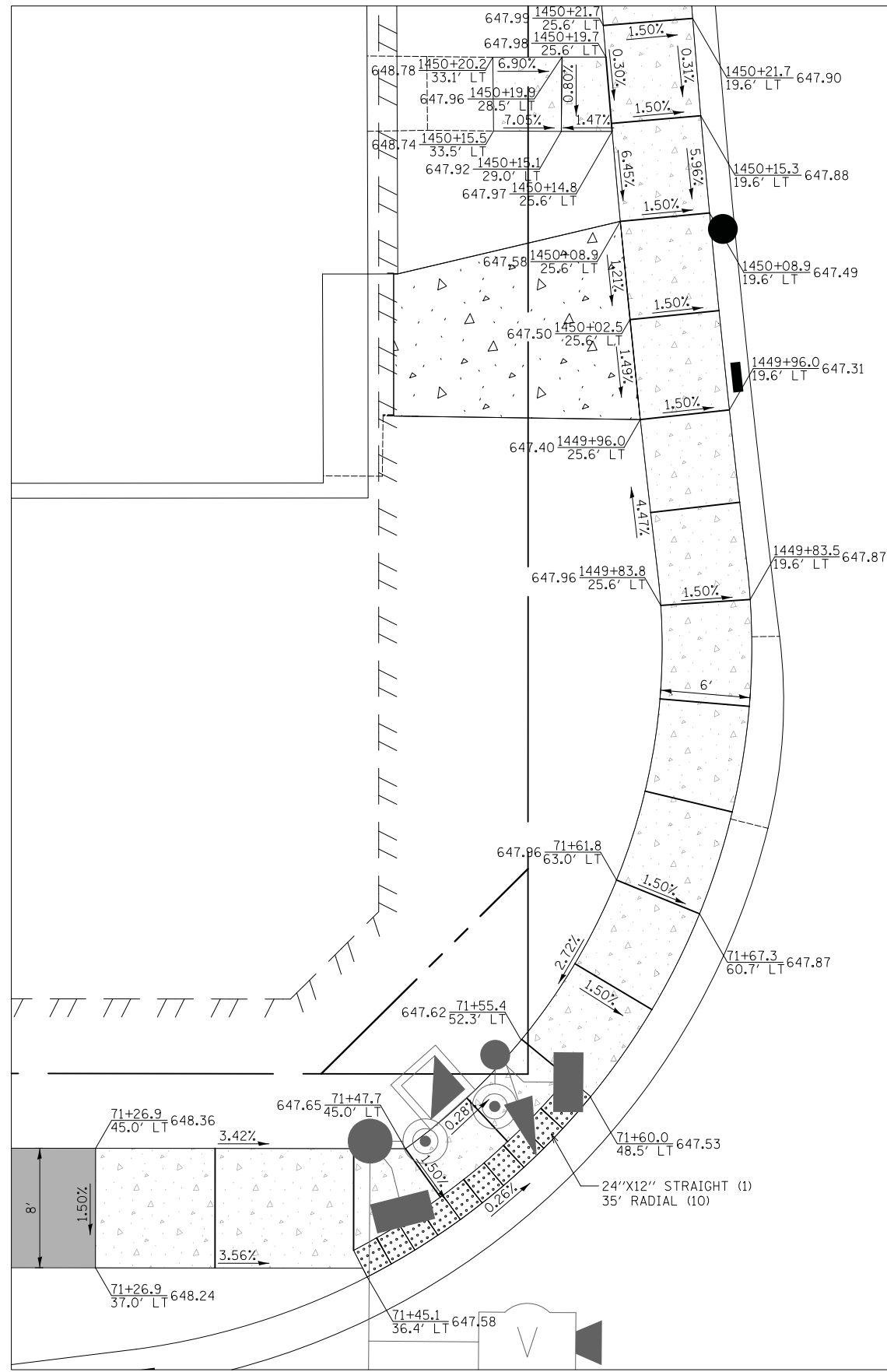
**SIDEWALK RAMP DETAILS**

SHEET NO. 39 OF 46 SHEETS STA. TO STA.

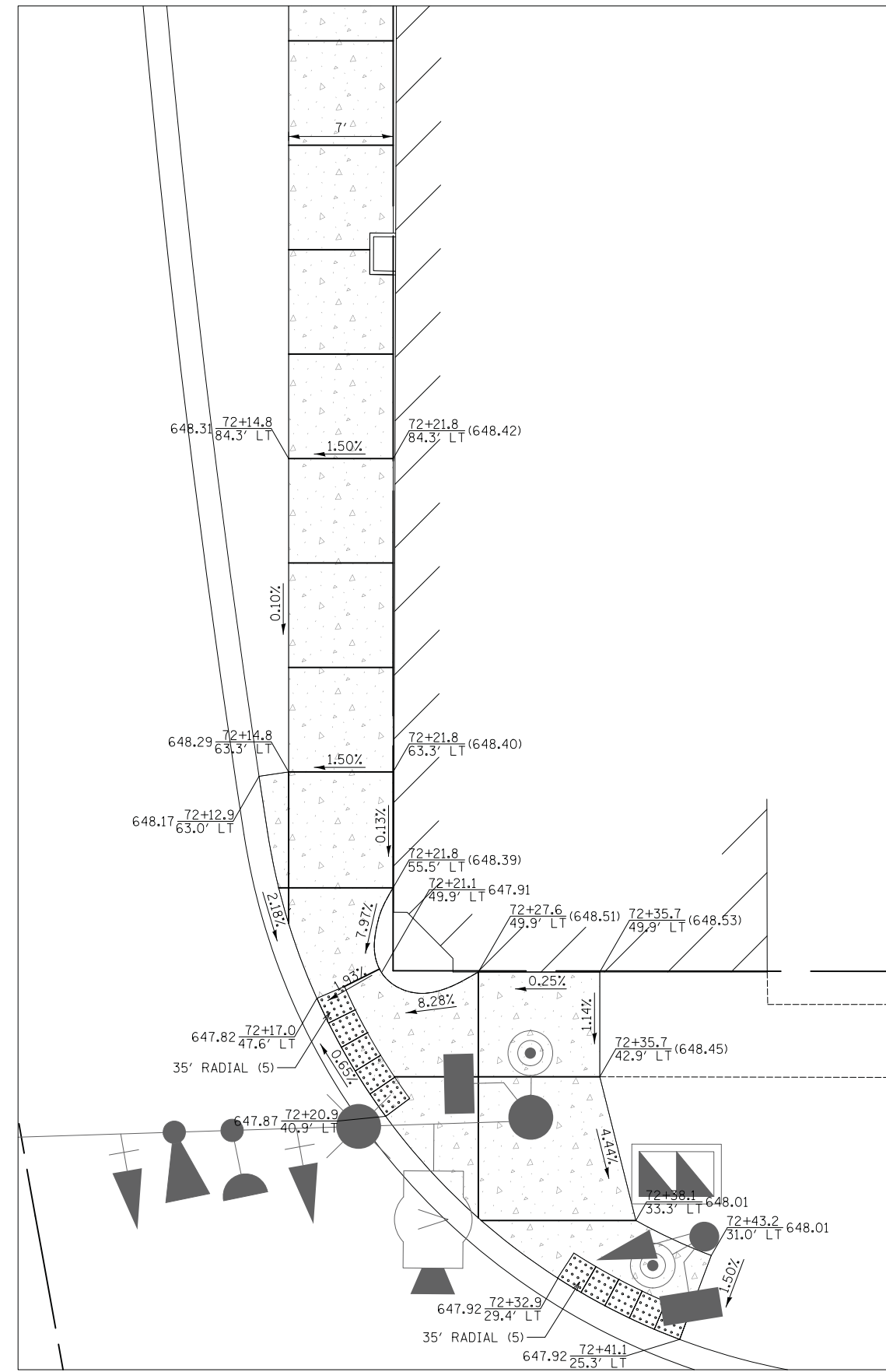
F.A.U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	334
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

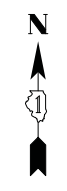
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



NORTHWEST CORNER CROSSWALK  
14TH STREET AND JACKSON STREET

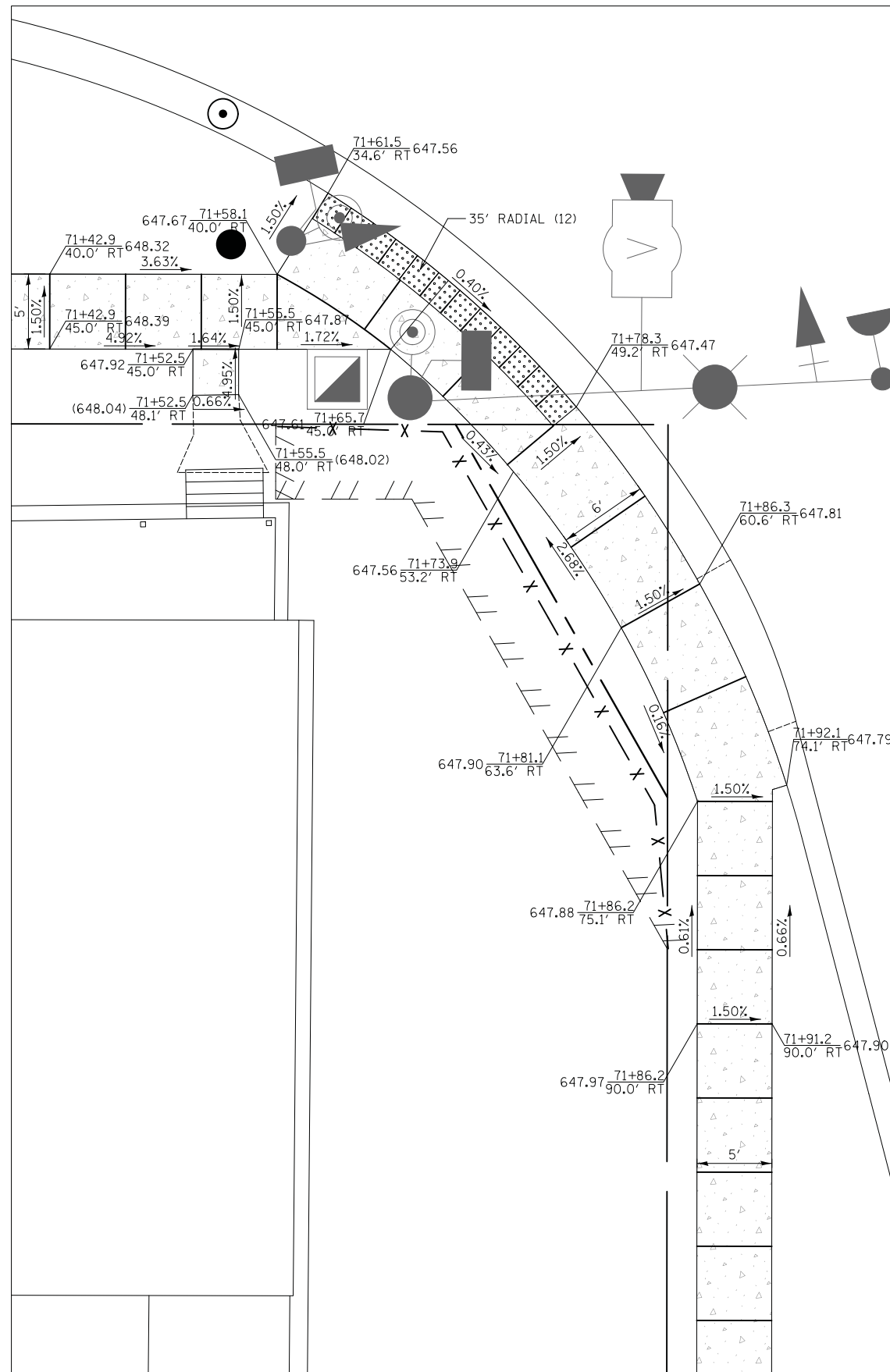


NORTHEAST CORNER CROSSWALK  
14TH STREET AND JACKSON STREET

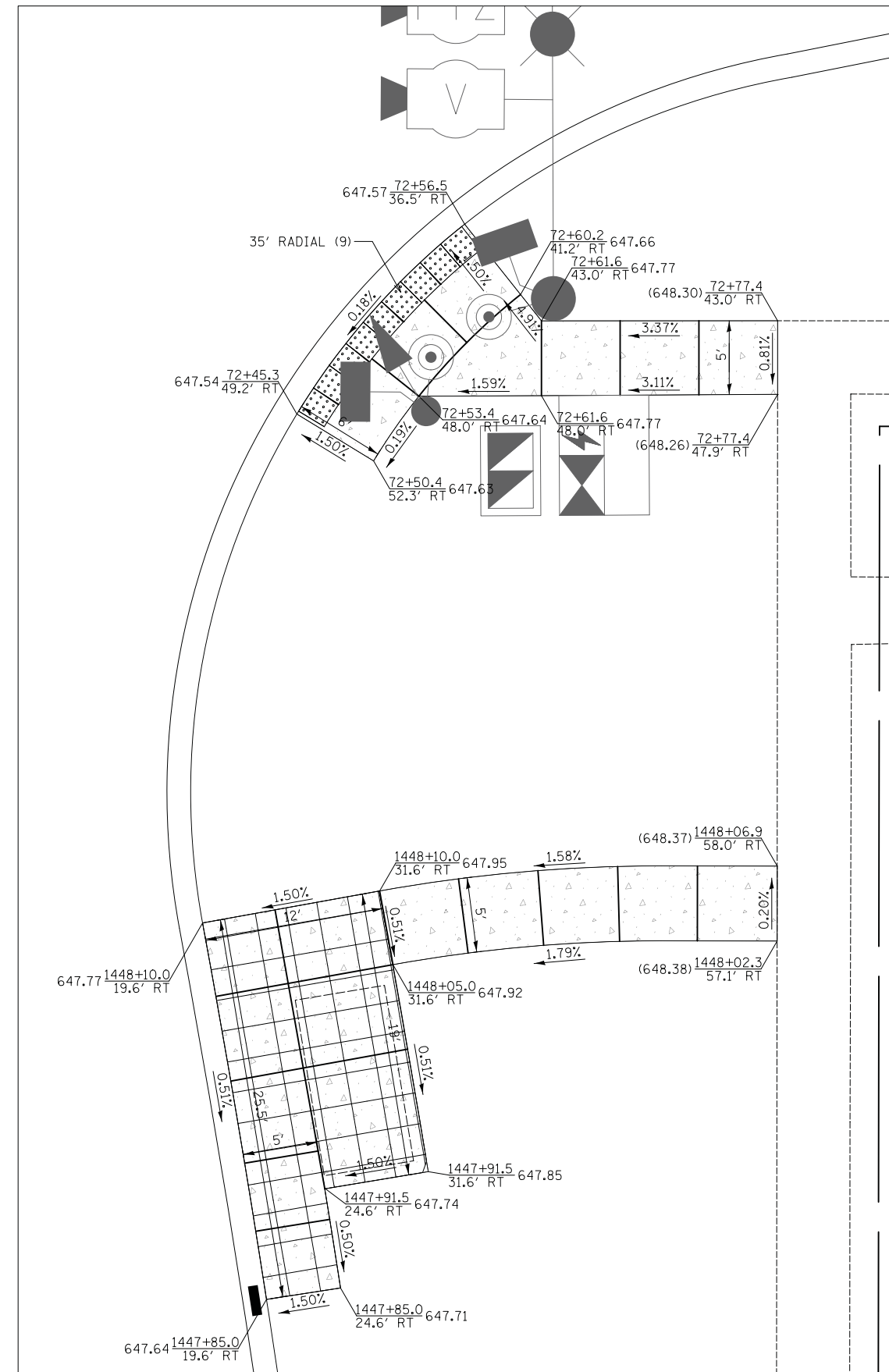


DATE	
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AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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SOUTHWEST CORNER CROSSWALK  
14TH STREET AND JACKSON STREET

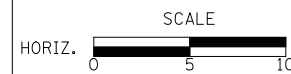


SOUTHEAST CORNER CROSSWALK  
14TH STREET AND JACKSON STREET

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DATE - 11/7/2018	REVISED -

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**SIDEWALK RAMP DETAILS**

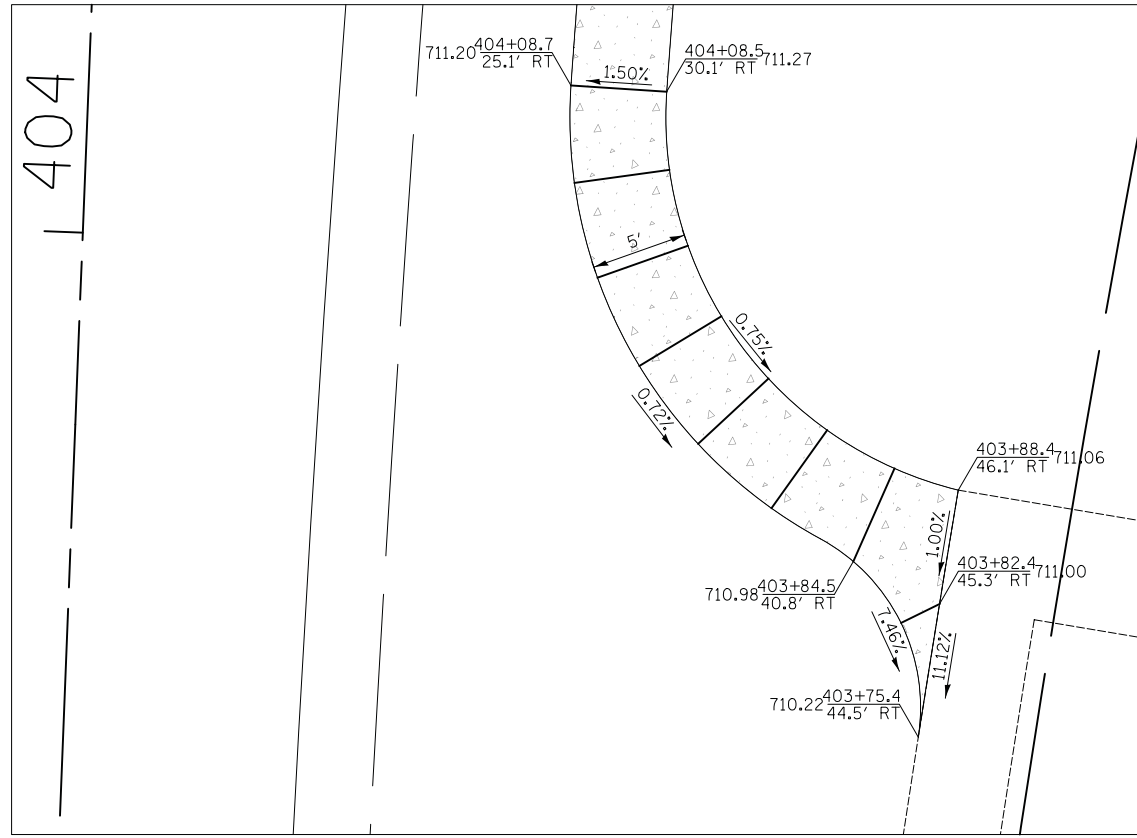
SHEET NO. 41 OF 46 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	336
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F33	

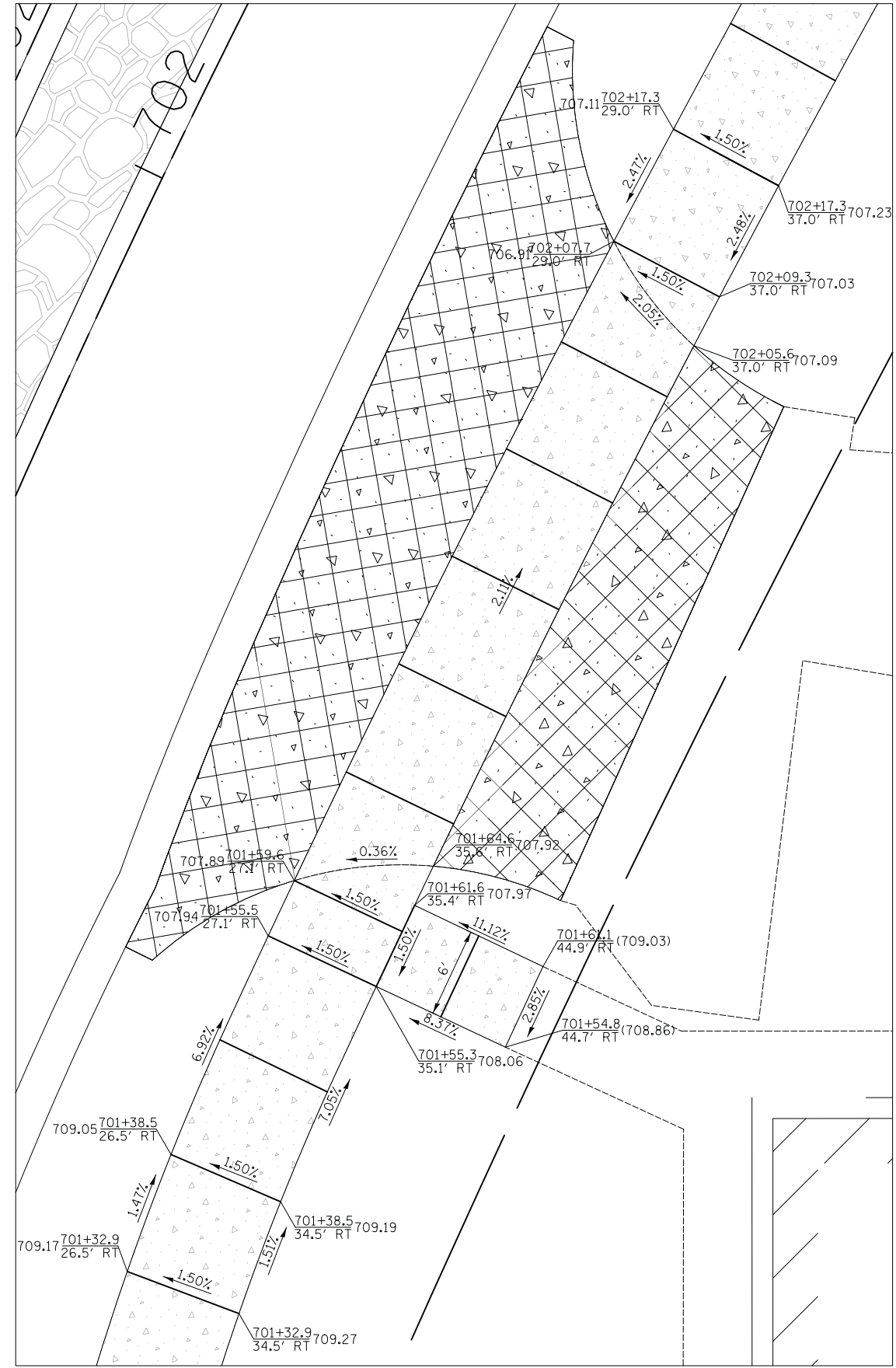


FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

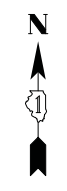
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



SIDEWALK AT STA. 403+80 RT



DRIVEWAY AT STA. 701+85 RT



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**STATE OF ILLINOIS  
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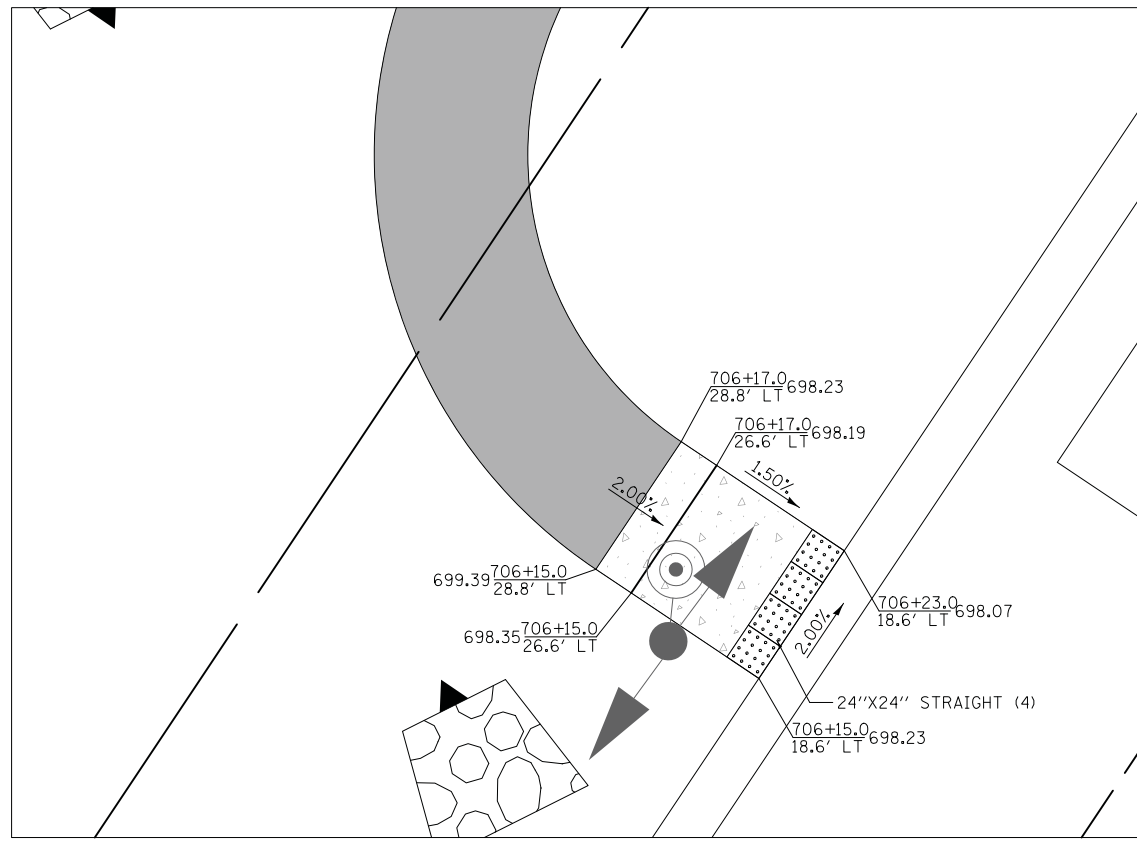
**SIDEWALK RAMP DETAILS**

SHEET NO. 42 OF 46 SHEETS STA. TO STA.

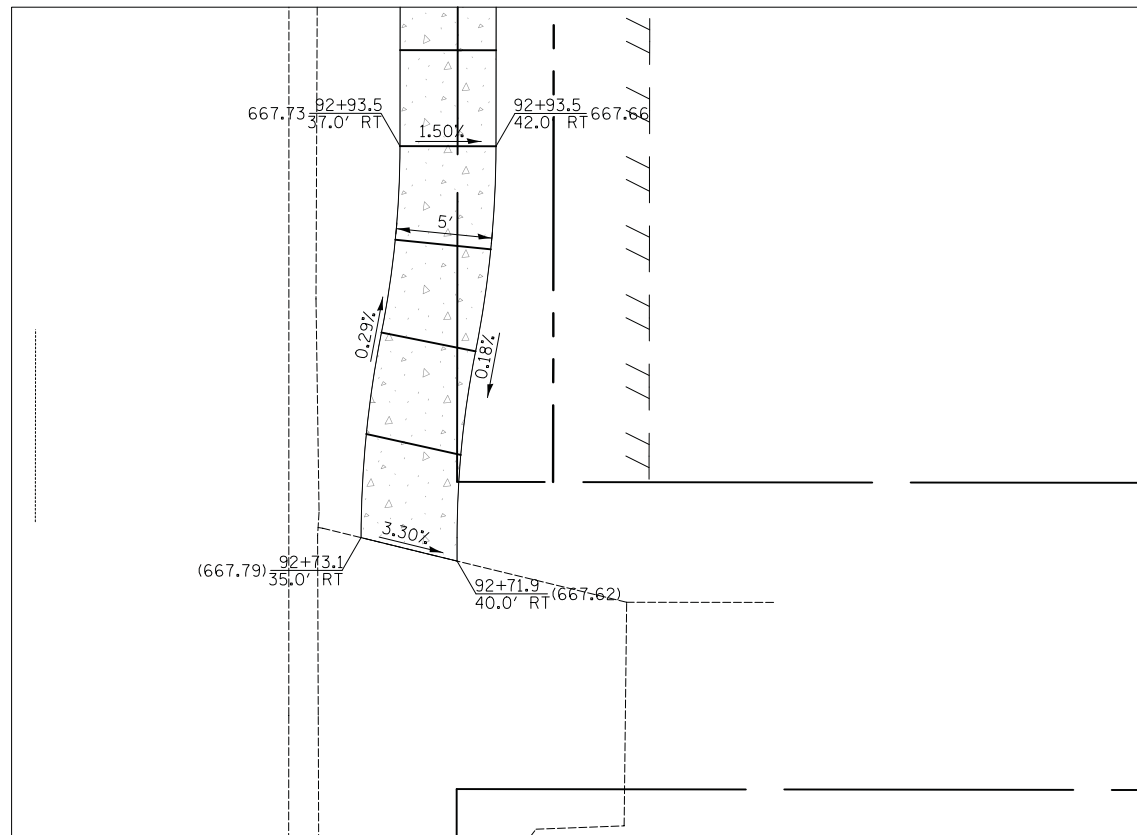
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	337
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F33	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

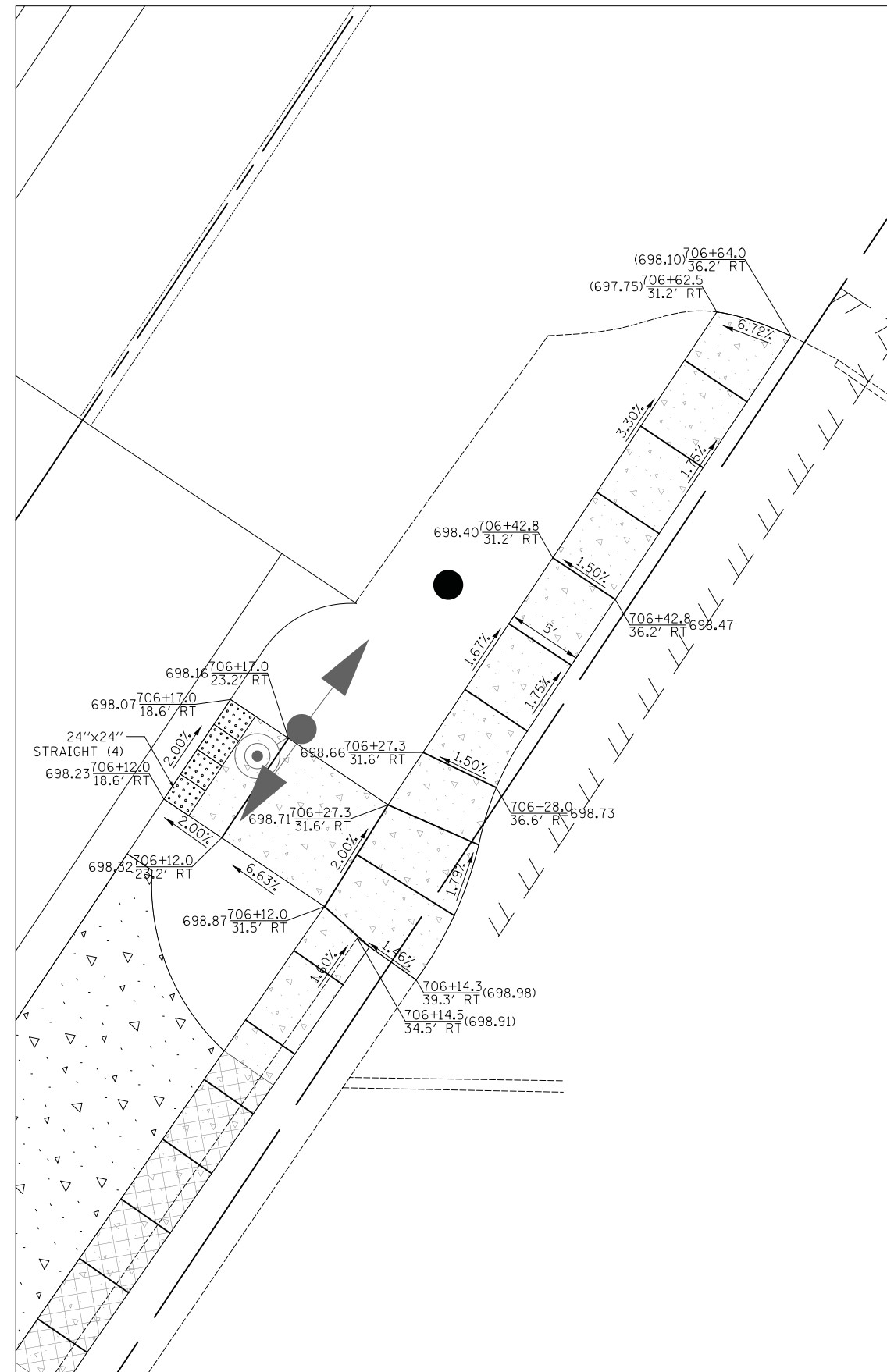
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



SIDEWALK AT STA. 706+15 LT



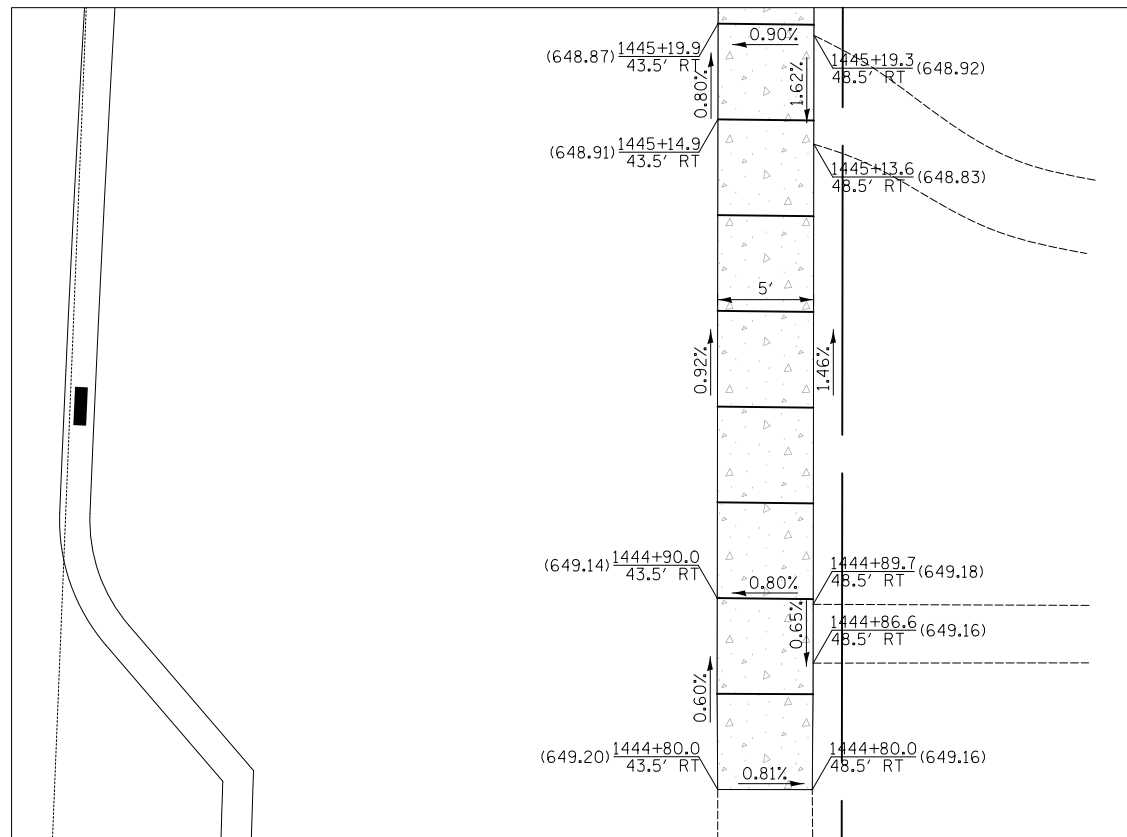
LEWIS AVENUE EASTERN SIDEWALK AT ALLEY CROSSING



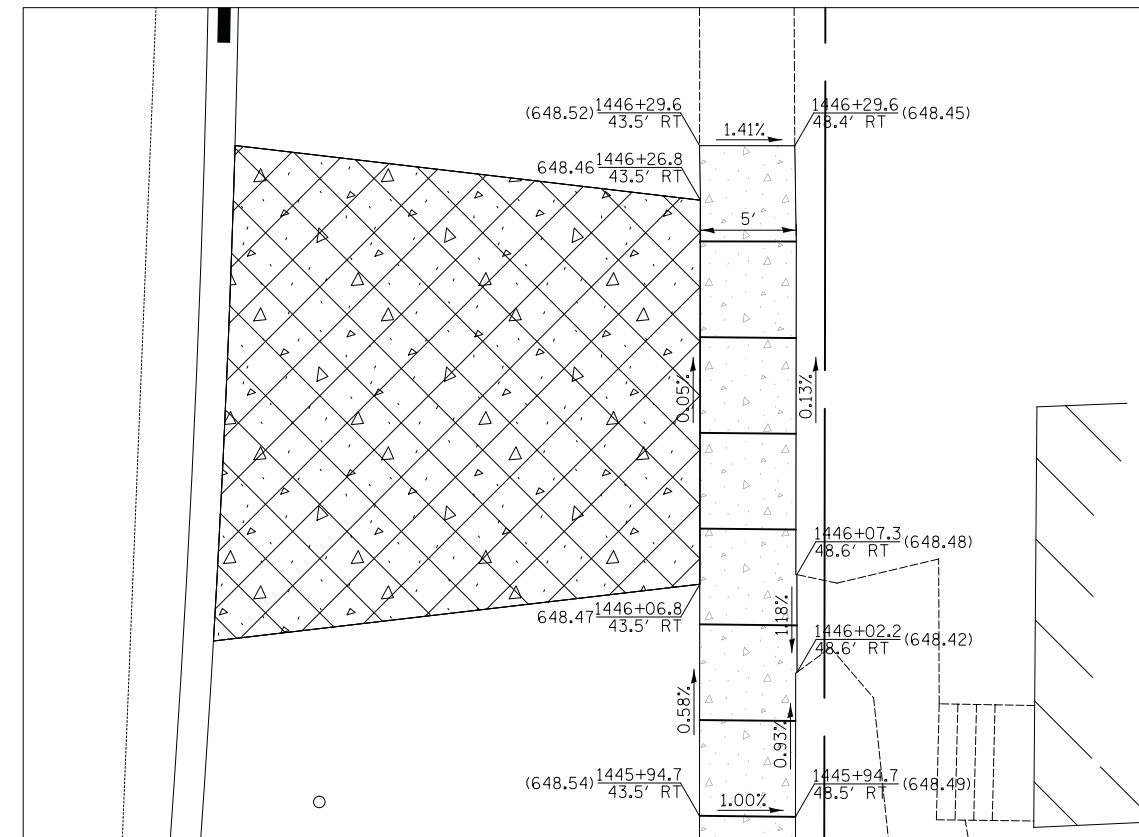
SIDEWALK AT STA. 706+15 RT



FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

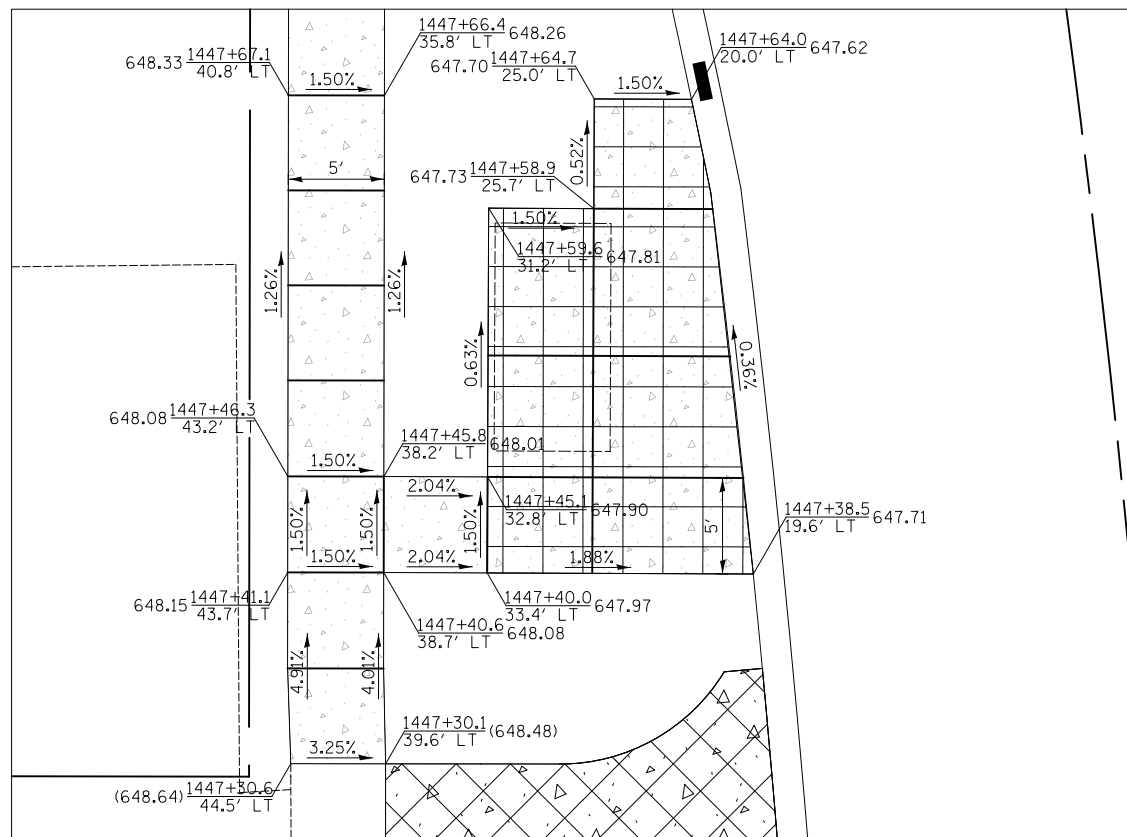


SIDEWALK AT STA. 1444+80 RT



SIDEWALK AT STA. 1446+30 RT

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

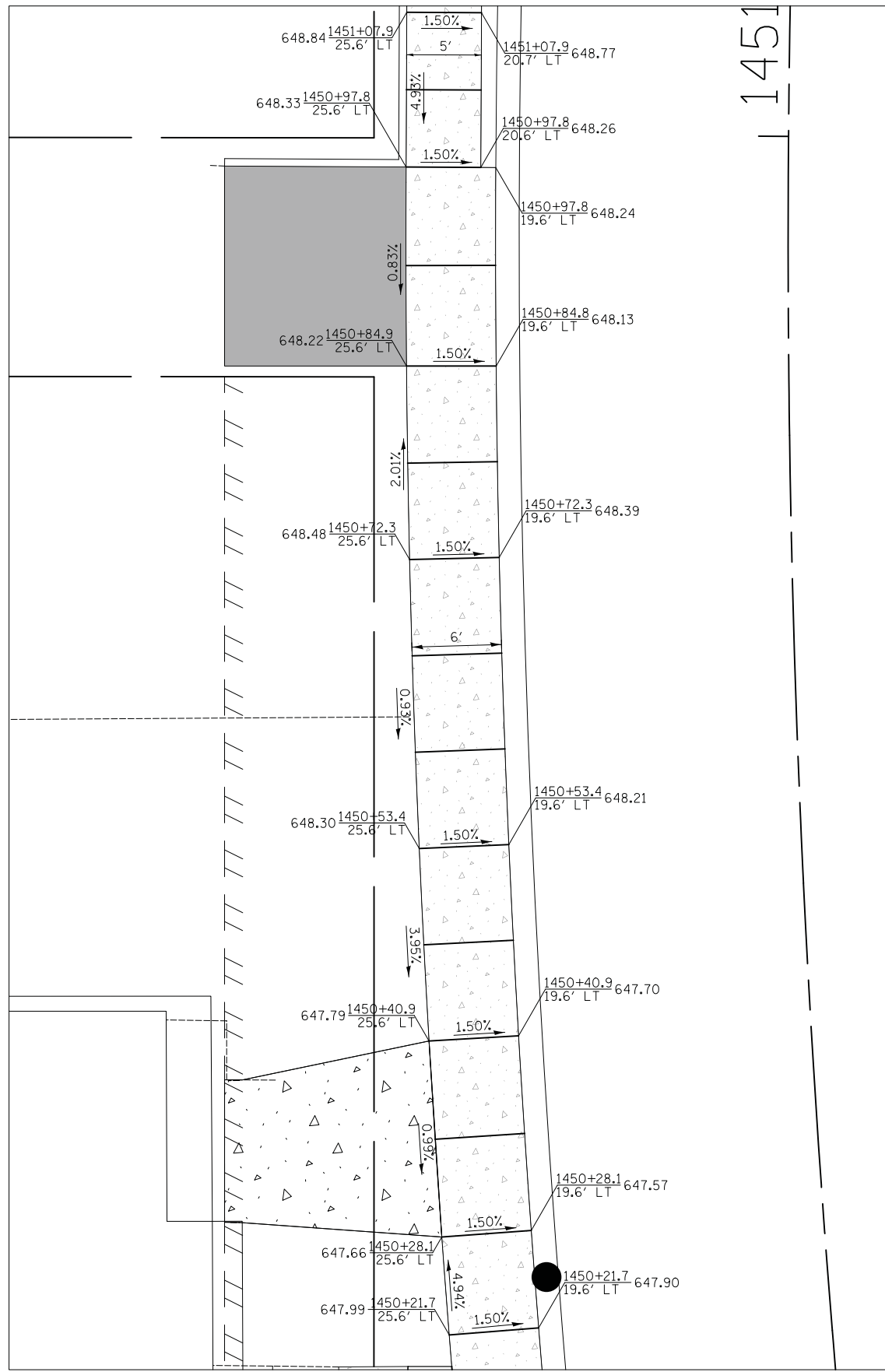


BUS PAD AT STA. 1447+50 LT

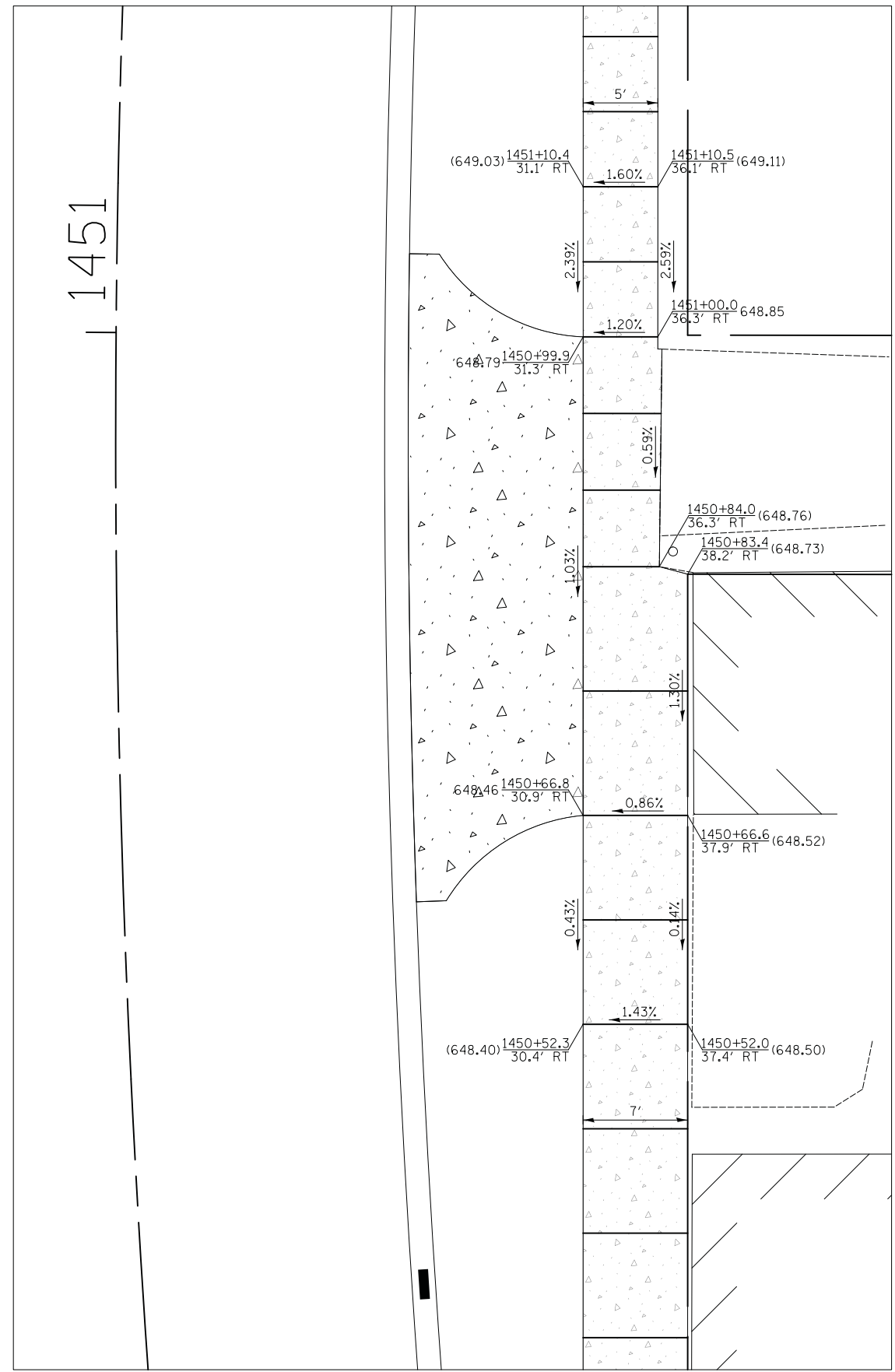


FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

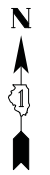
ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



DRIVEWAYS AT STA. 1450+35 AND 1450+91 LT

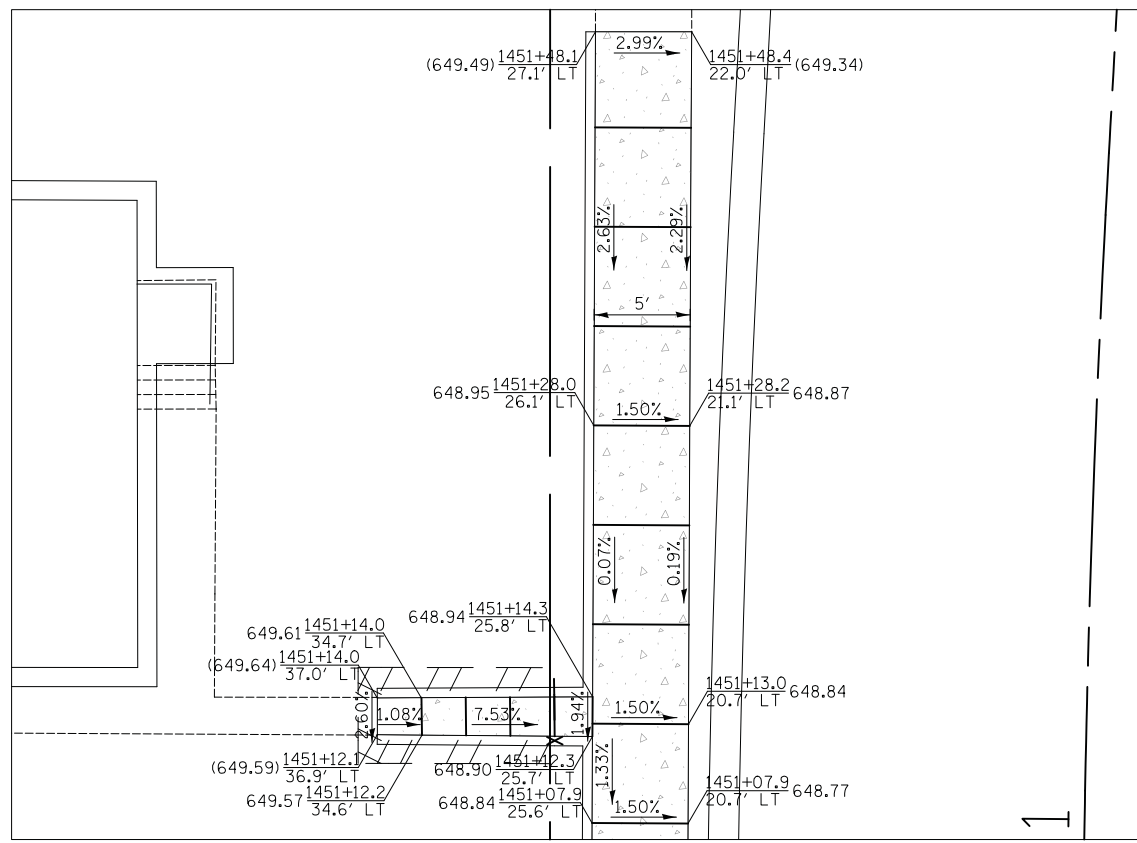


DRIVEWAYS AT STA. 1450+75 AND 1450+93 RT

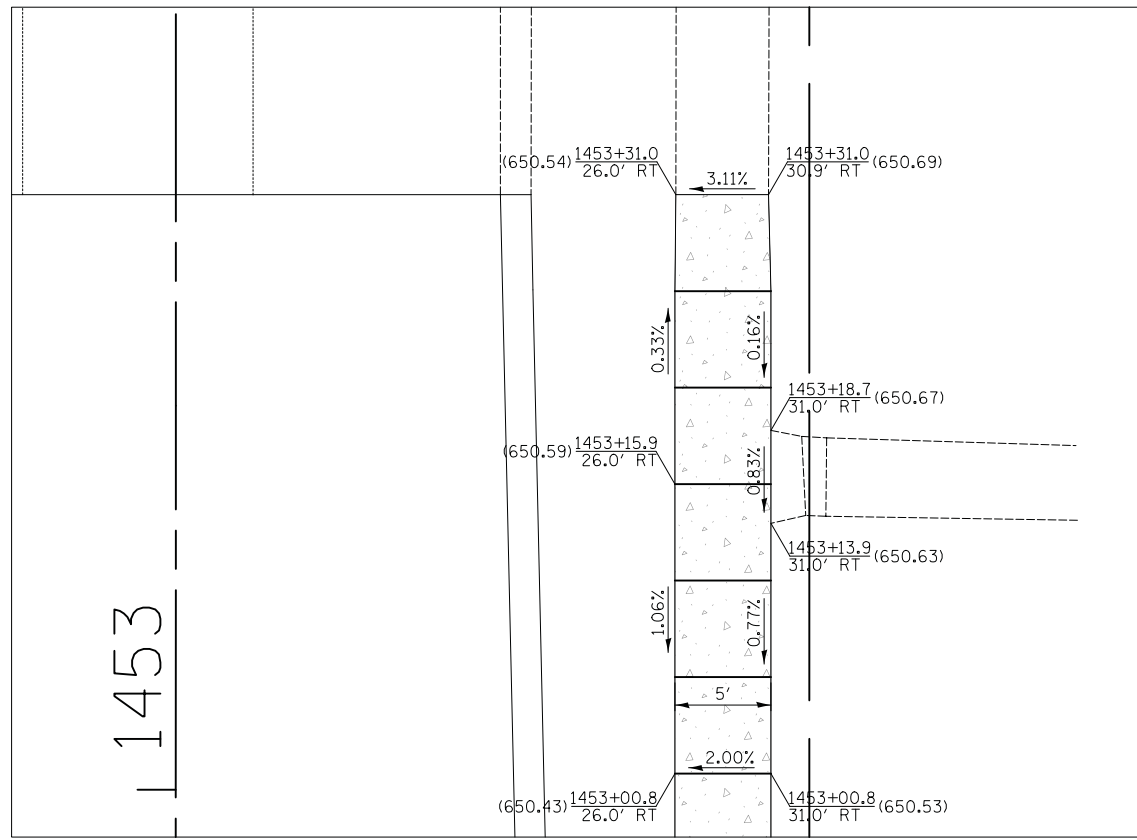


FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

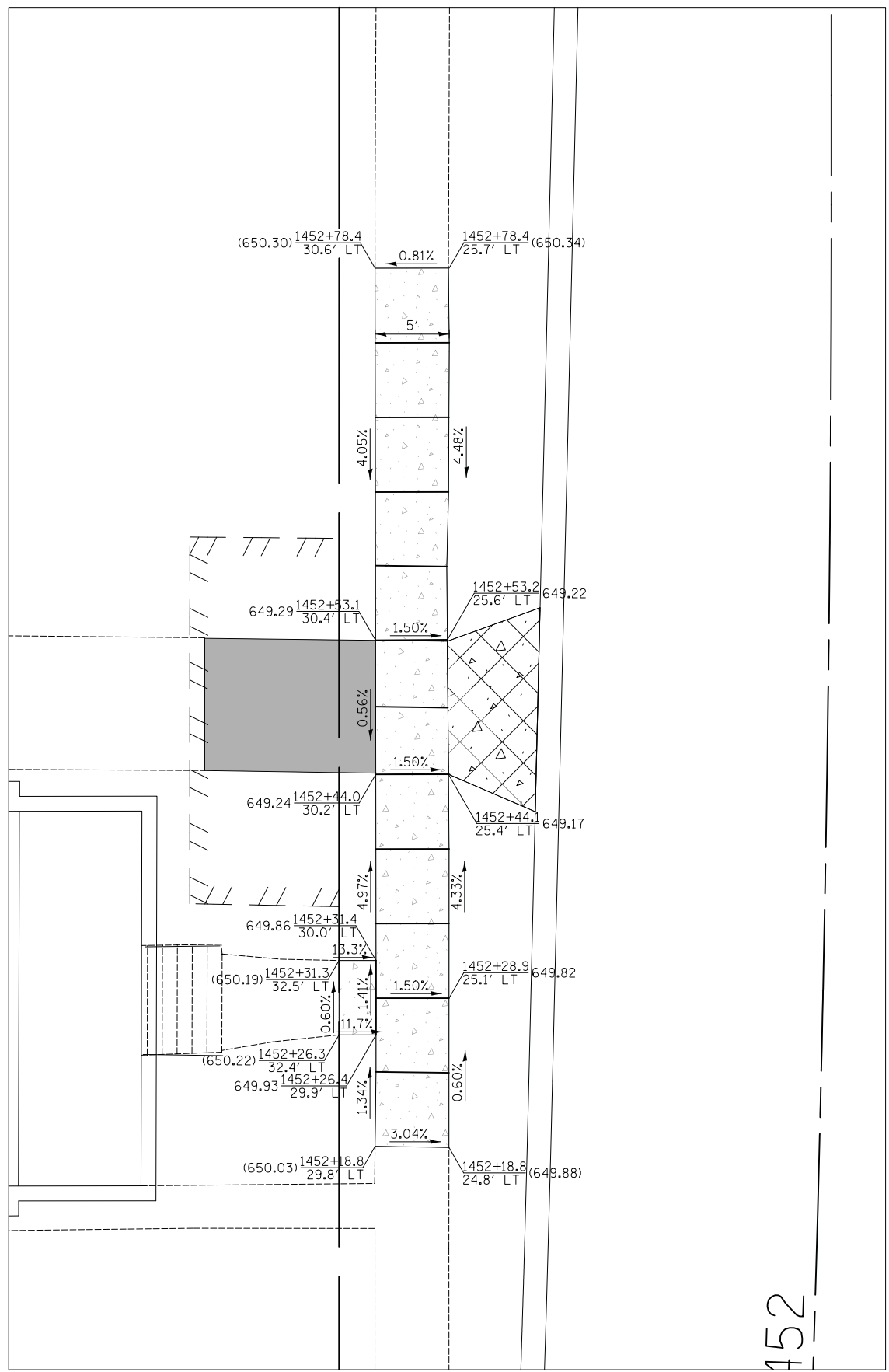
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



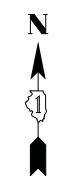
VARIOUS SIDEWALK FROM STA. 1451+13 TO 1451+48 LT



SIDEWALK AT STA. 1453+31 RT



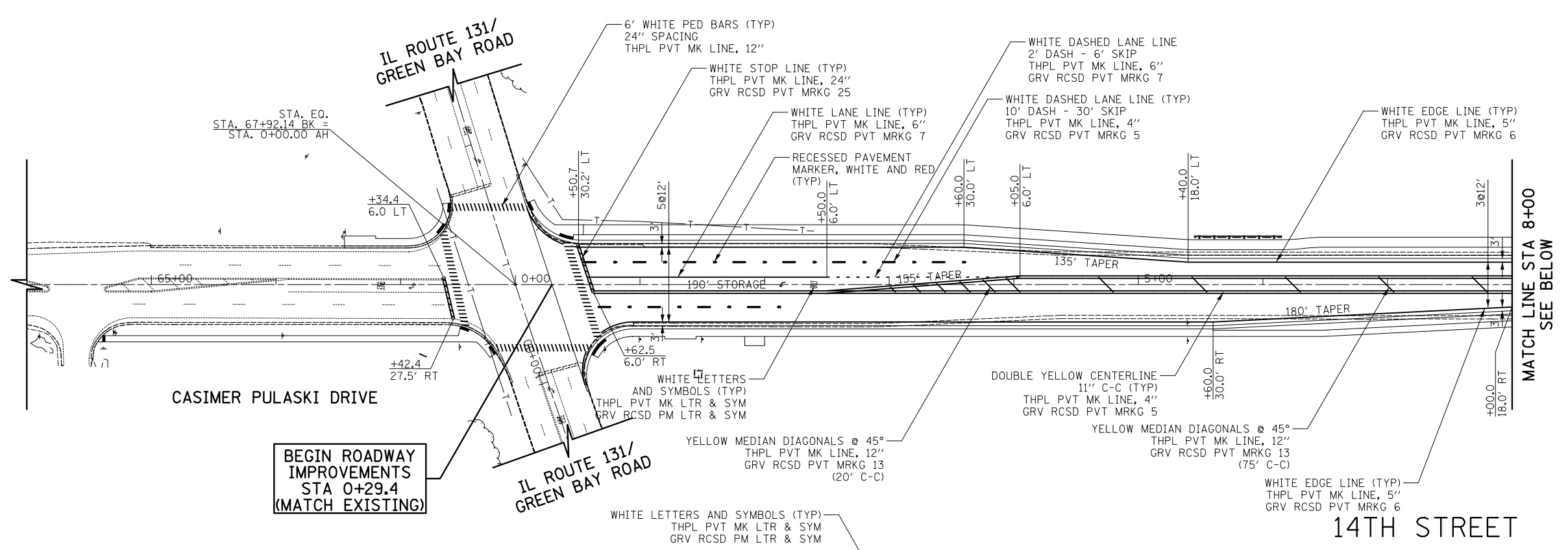
DRIVEWAY AT STA. 1452+47 LT



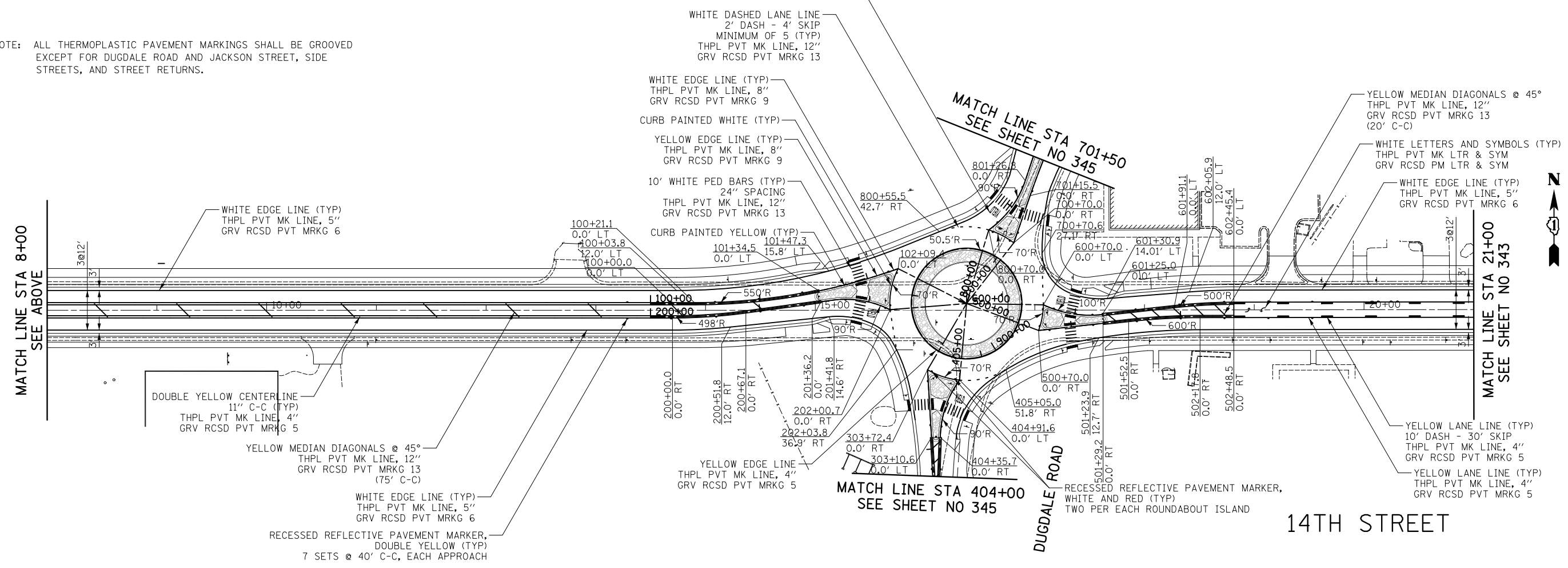


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DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



NOTE: ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE GROOVED EXCEPT FOR DUGDALE ROAD AND JACKSON STREET, SIDE STREETS, AND STREET RETURNS.



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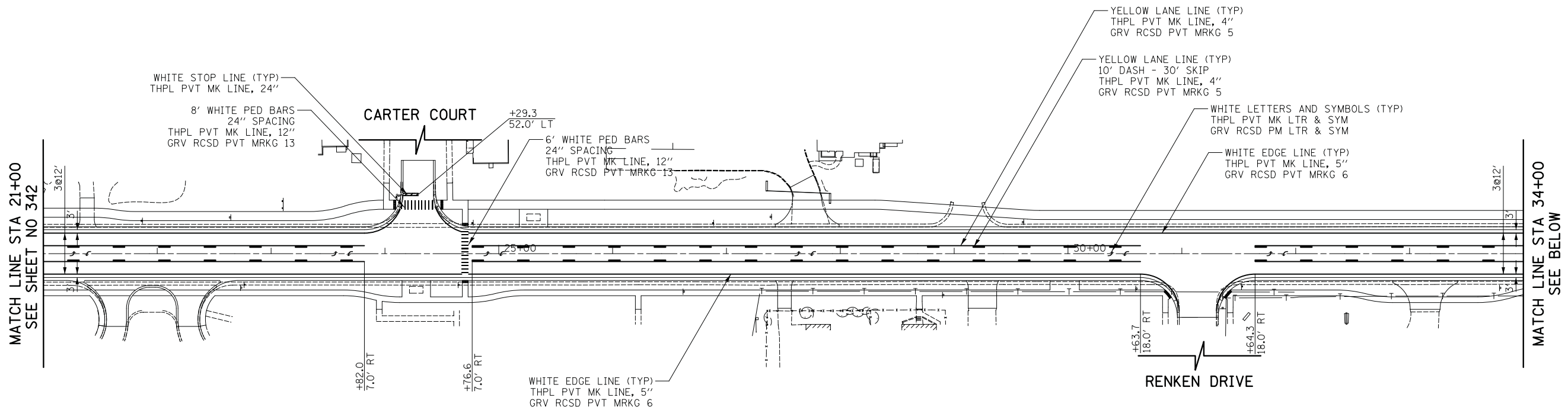


F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	342
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

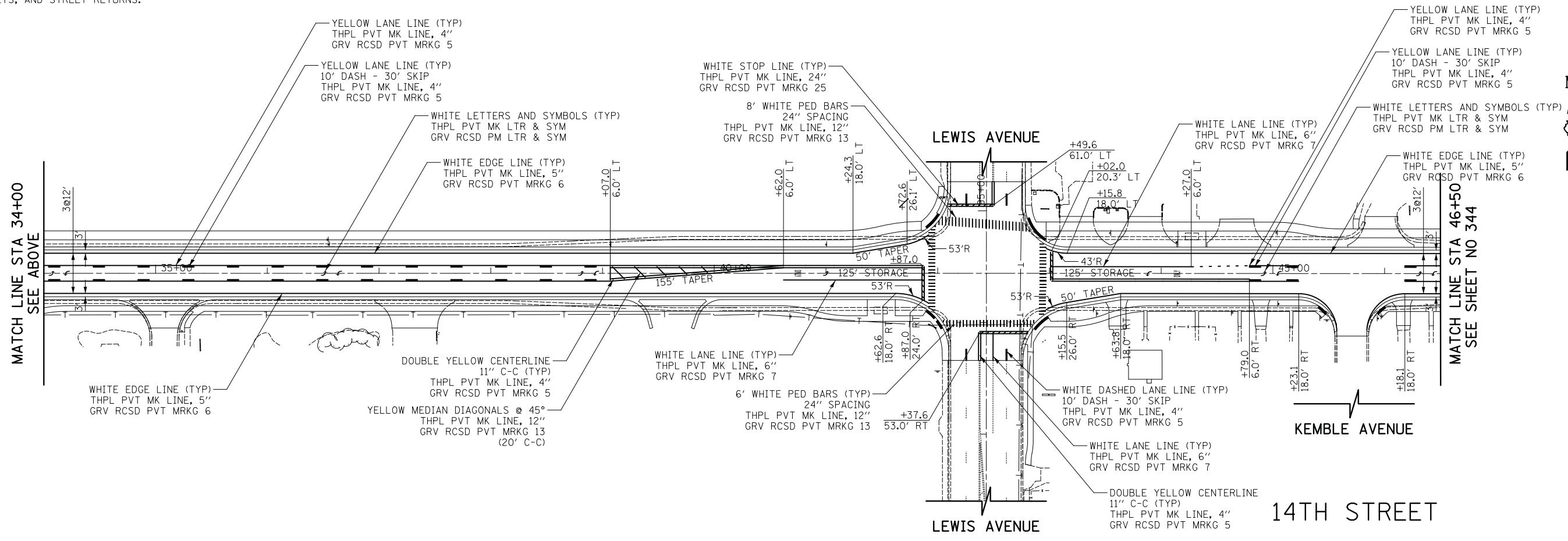


DATE	BY
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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DATE	BY
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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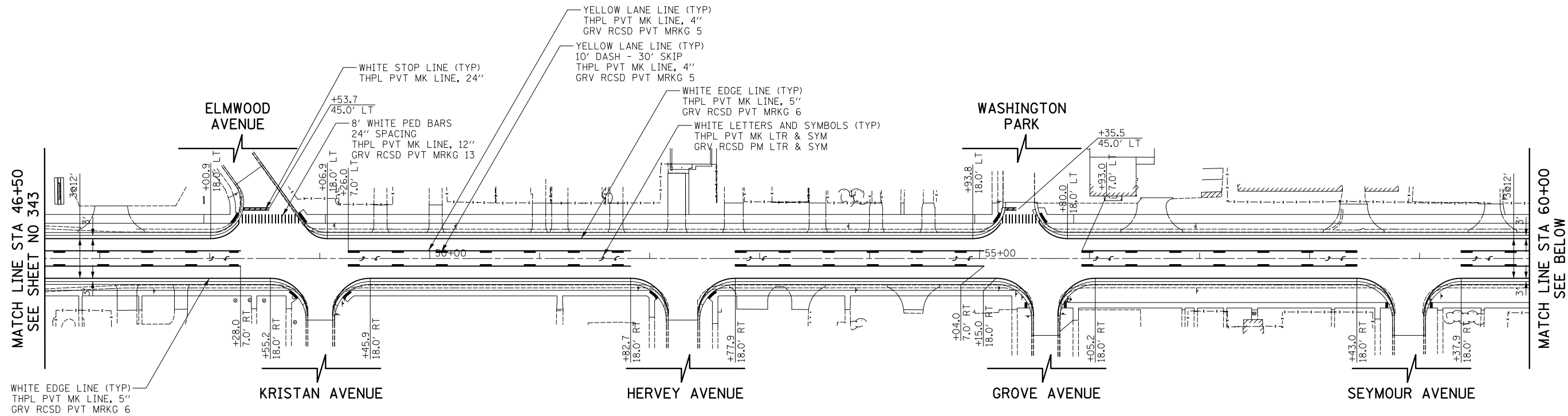
**PAVEMENT MARKING PLANS**

SHEET NO. 2 OF 5 SHEETS STA. 21+00.0 TO STA. 46+50.0

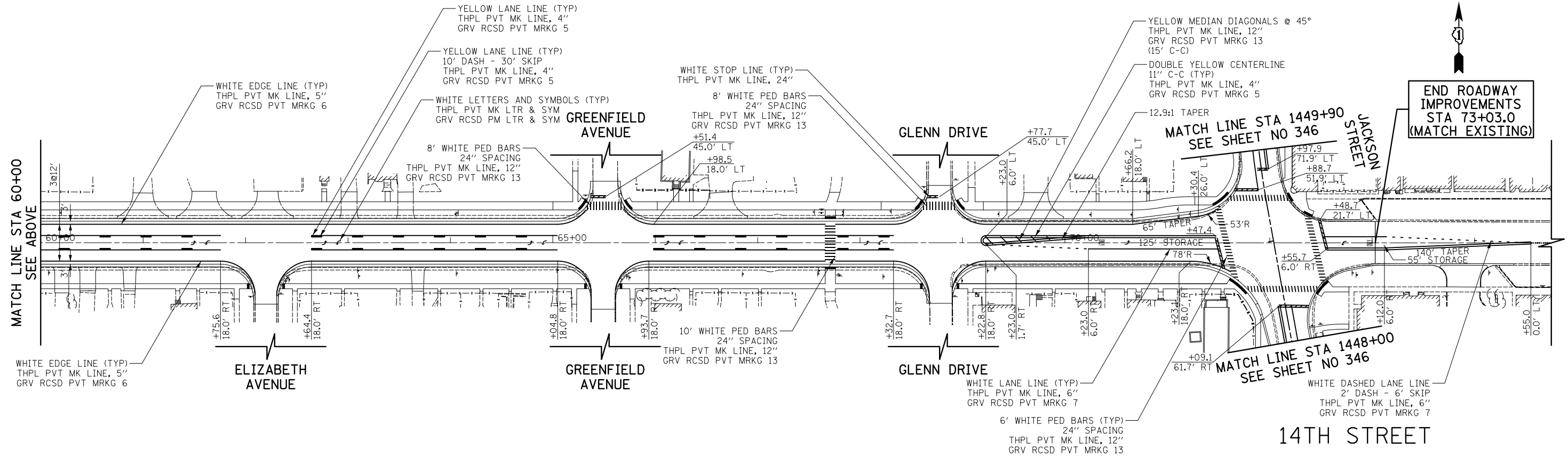
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	343
				CONTRACT NO. 61F33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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NOTE BOOK	
AREAS CHECKED	
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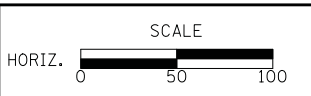
NOTE: ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE GROOVED EXCEPT FOR DUGDALE ROAD AND JACKSON STREET, SIDE STREETS, AND STREET RETURNS.



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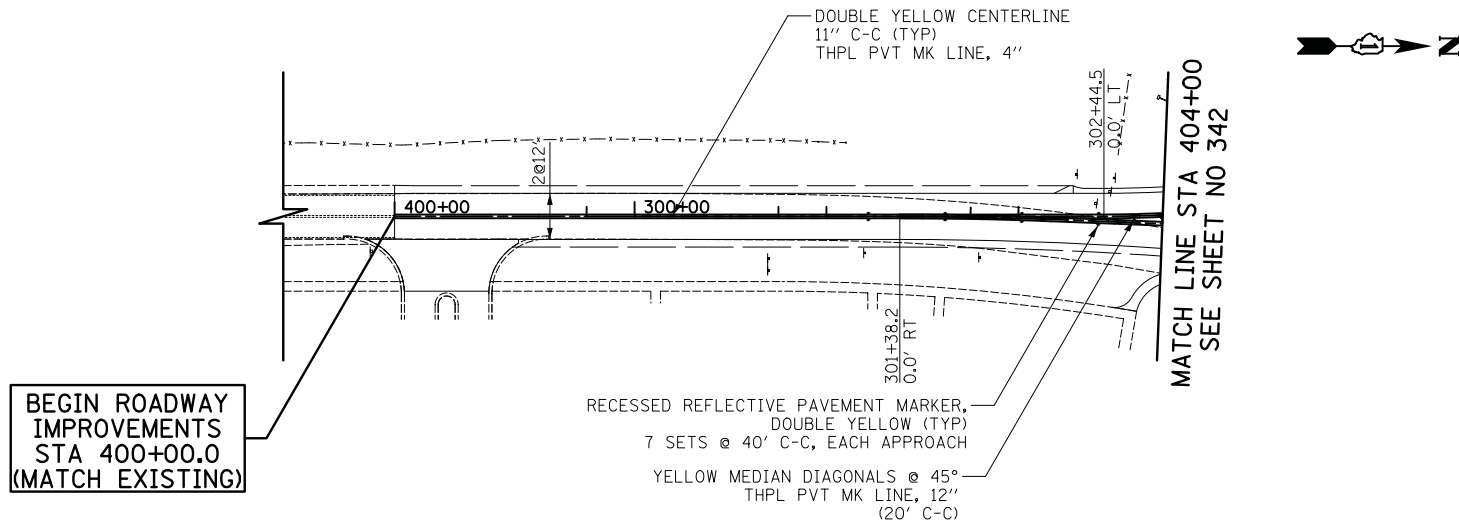


**PAVEMENT MARKING PLANS**  
 SHEET NO. 3 OF 5 SHEETS STA. 46+50.0 TO STA. 74+00.0

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	344
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

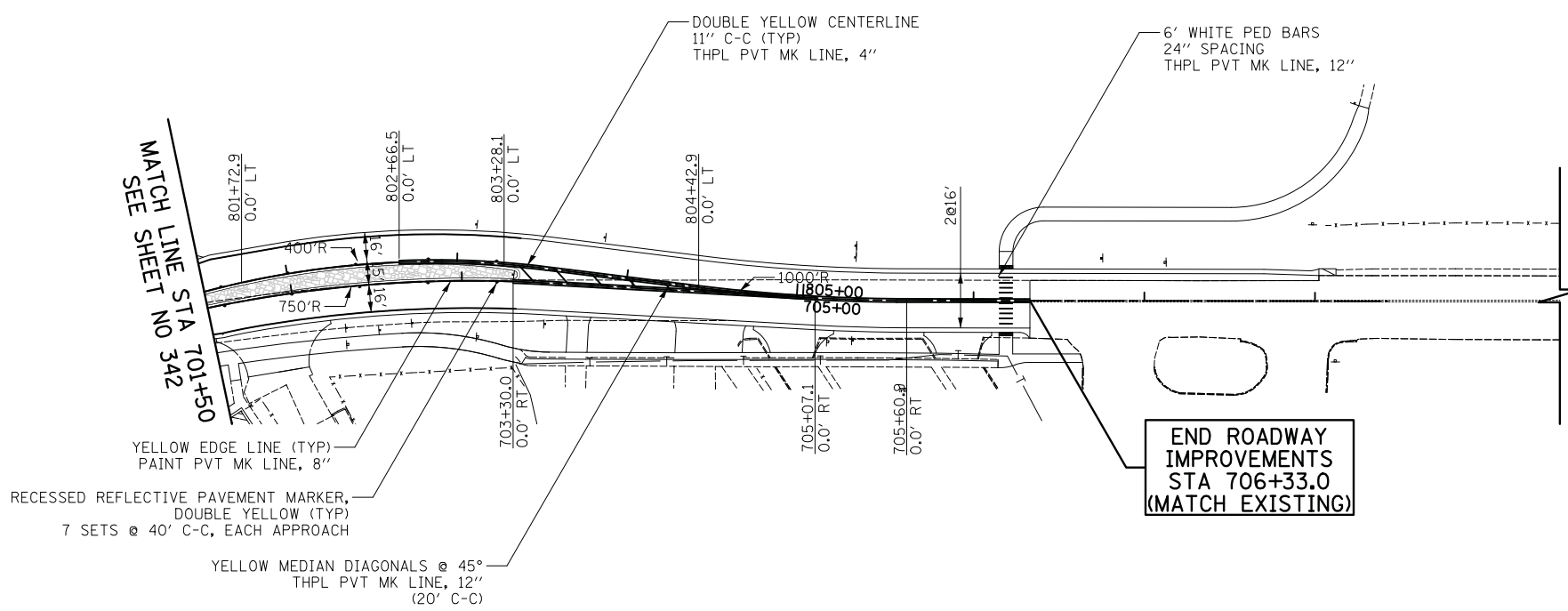
DATE	BY
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TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	BY
ORIGINAL	
SURVEY	
NOTE	
BOOK	
AREAS	
CHECKED	
NO.	



DUGDALE ROAD

NOTE: ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE GROOVED EXCEPT FOR DUGDALE ROAD AND JACKSON STREET, SIDE STREETS, AND STREET RETURNS.



DUGDALE ROAD

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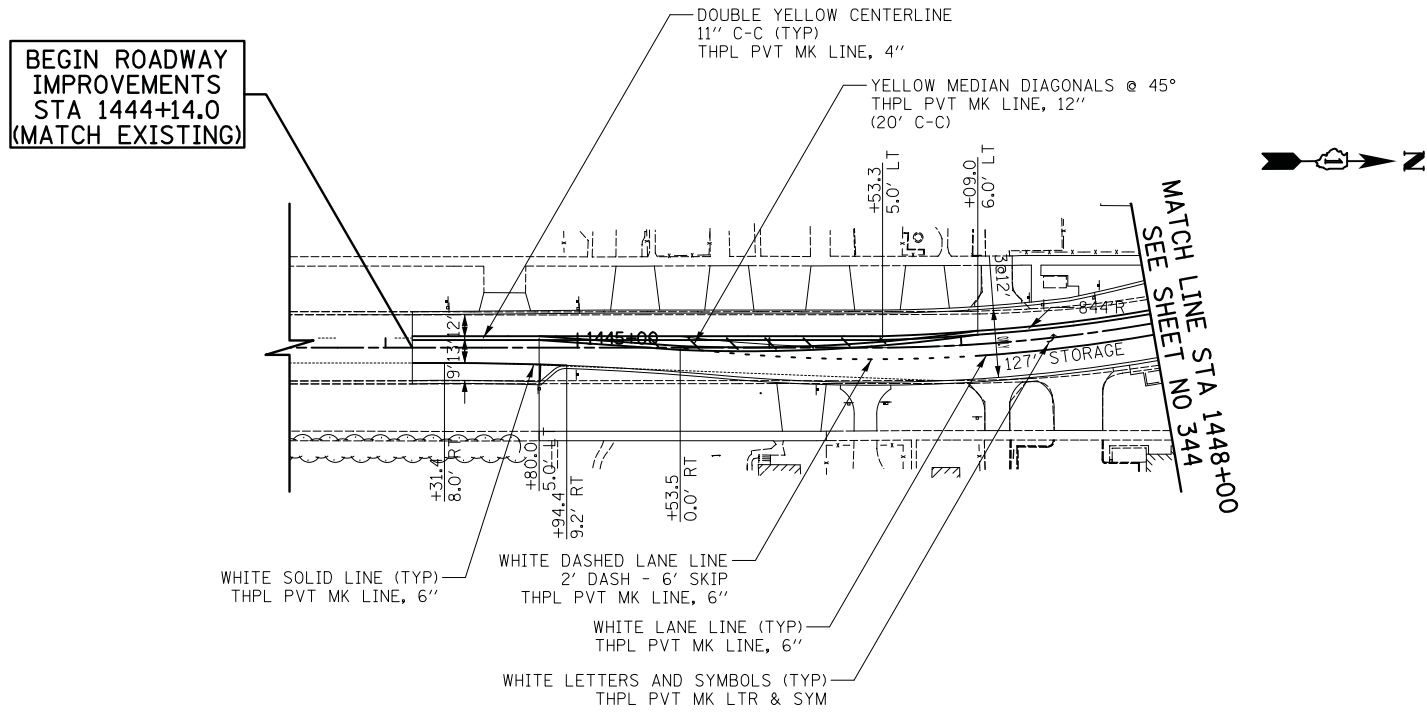
**PAVEMENT MARKING PLANS**

SHEET NO. 4 OF 5 SHEETS STA. 400+00.0 TO STA. 706+33.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	345
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

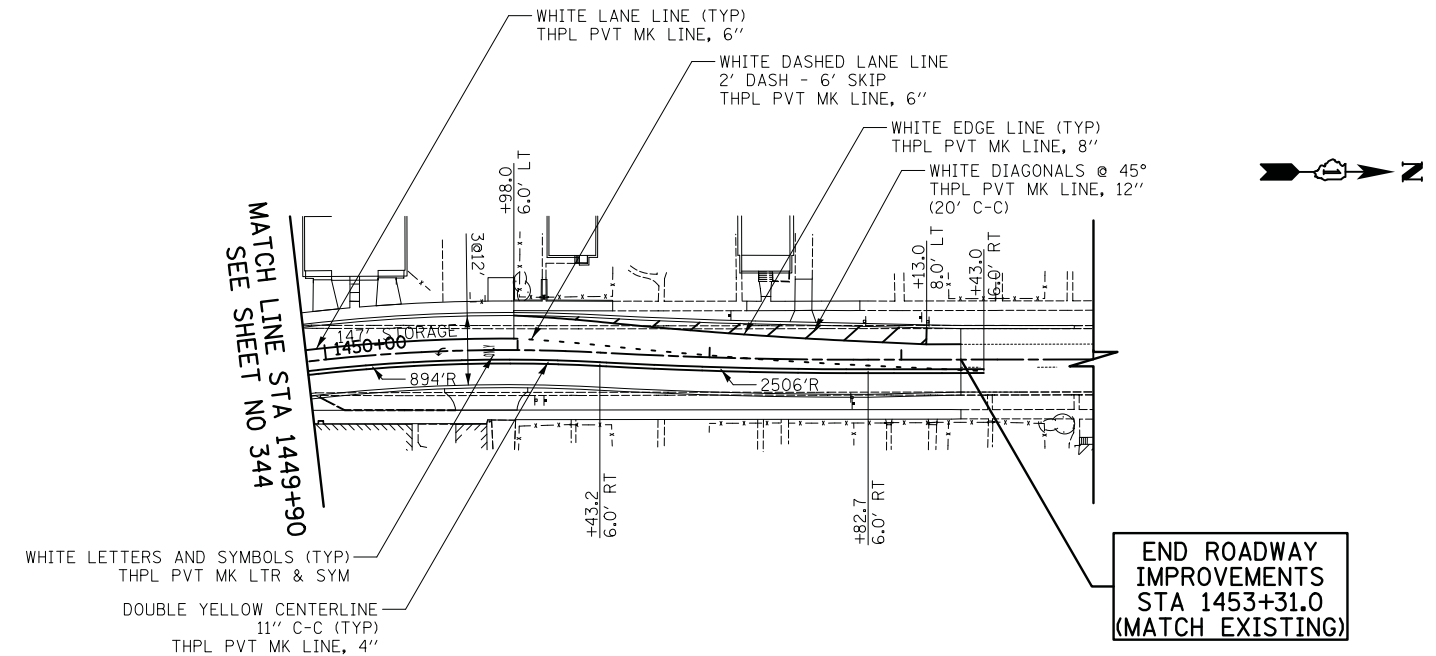
DATE	BY
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TEMPLATE	
AREAS	
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DATE	BY
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



JACKSON STREET

NOTE: ALL THERMOPLASTIC PAVEMENT MARKINGS SHALL BE GROOVED EXCEPT FOR DUGDALE ROAD AND JACKSON STREET, SIDE STREETS, AND STREET RETURNS.



JACKSON STREET

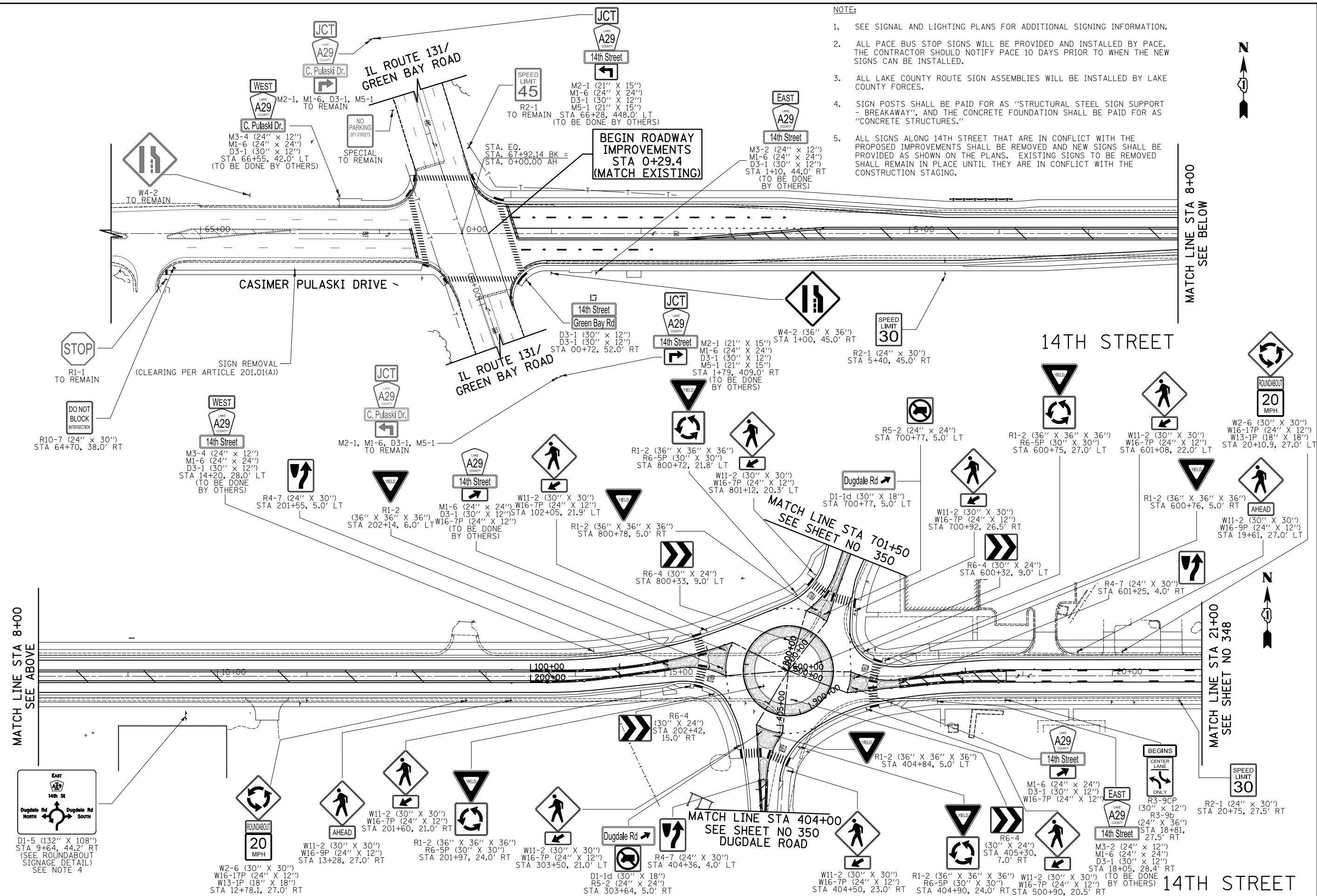


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**NOTE:**

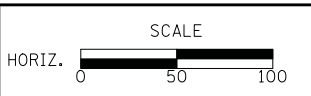
1. SEE SIGNAL AND LIGHTING PLANS FOR ADDITIONAL SIGNING INFORMATION.
2. ALL PACE BUS STOP SIGNS WILL BE PROVIDED AND INSTALLED BY PACE. THE CONTRACTOR SHOULD NOTIFY PACE 10 DAYS PRIOR TO WHEN THE NEW SIGNS CAN BE INSTALLED.
3. ALL LAKE COUNTY ROUTE SIGN ASSEMBLIES WILL BE INSTALLED BY LAKE COUNTY FORCES.
4. SIGN POSTS SHALL BE PAID FOR AS "STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY", AND THE CONCRETE FOUNDATION SHALL BE PAID FOR AS "CONCRETE STRUCTURES."
5. ALL SIGNS ALONG 14TH STREET THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND NEW SIGNS SHALL BE PROVIDED AS SHOWN ON THE PLANS. EXISTING SIGNS TO BE REMOVED SHALL REMAIN IN PLACE UNTIL THEY ARE IN CONFLICT WITH THE CONSTRUCTION STAGING.



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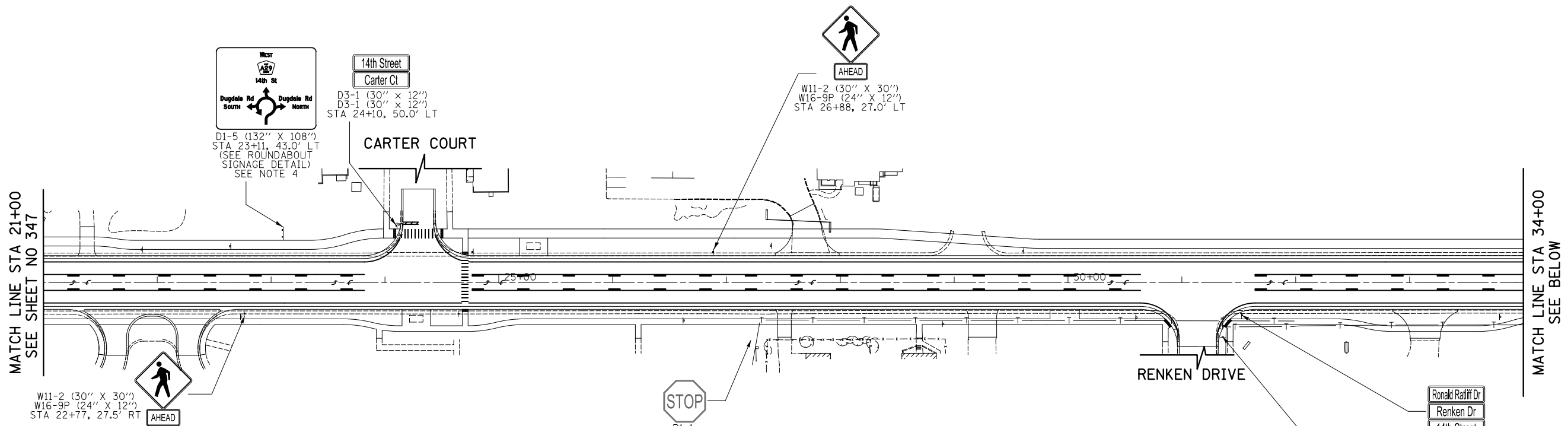


**SIGNING PLANS**  
 SHEET NO. 1 OF 5 SHEETS STA. 64+53.1 TO STA. 21+00.0

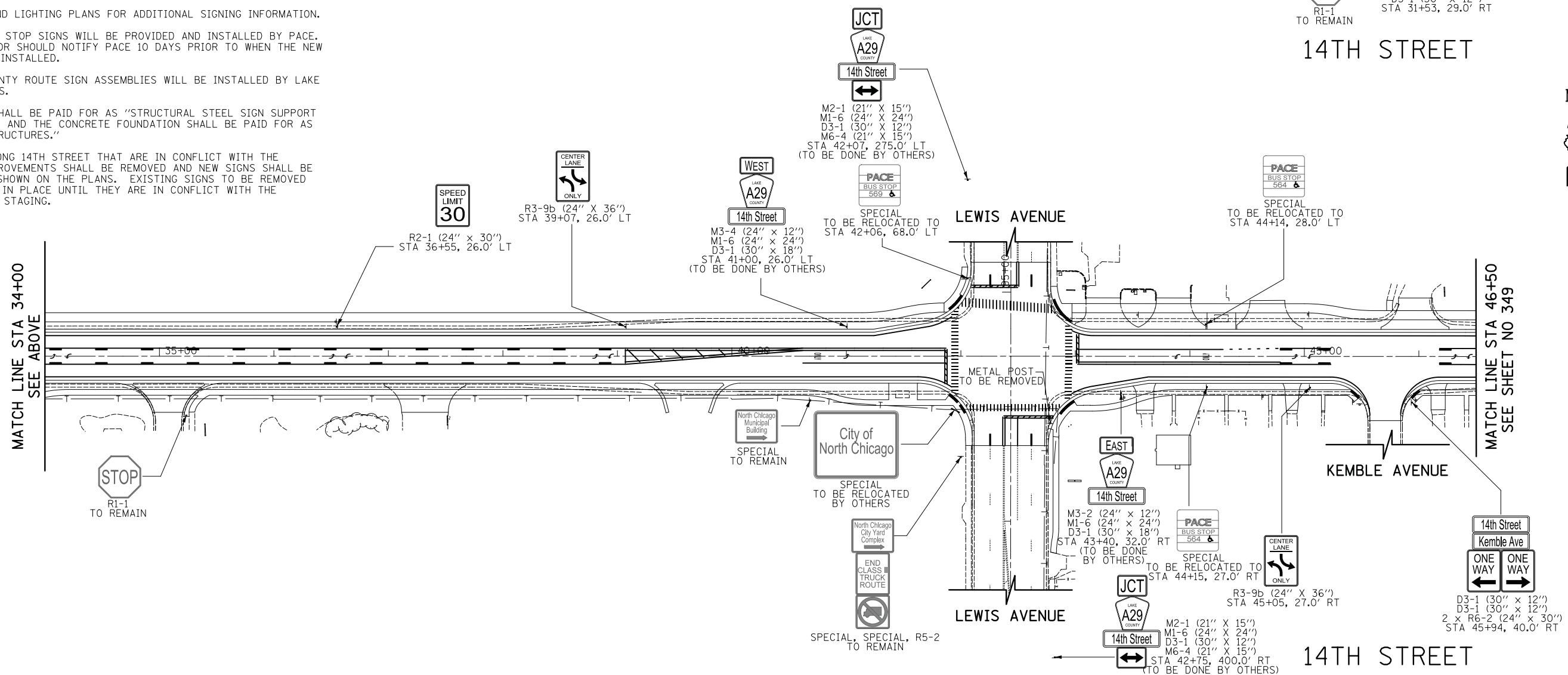
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	347
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

DATE	
BY	
SURVEYED	
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TEMPLATE	
NOTE BOOK	
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NOTE BOOK	
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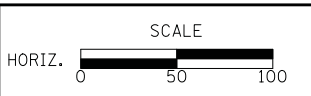
- NOTE:**
- SEE SIGNAL AND LIGHTING PLANS FOR ADDITIONAL SIGNING INFORMATION.
  - ALL PACE BUS STOP SIGNS WILL BE PROVIDED AND INSTALLED BY PACE. THE CONTRACTOR SHOULD NOTIFY PACE 10 DAYS PRIOR TO WHEN THE NEW SIGNS CAN BE INSTALLED.
  - ALL LAKE COUNTY ROUTE SIGN ASSEMBLIES WILL BE INSTALLED BY LAKE COUNTY FORCES.
  - SIGN POSTS SHALL BE PAID FOR AS "STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY", AND THE CONCRETE FOUNDATION SHALL BE PAID FOR AS "CONCRETE STRUCTURES."
  - ALL SIGNS ALONG 14TH STREET THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND NEW SIGNS SHALL BE PROVIDED AS SHOWN ON THE PLANS. EXISTING SIGNS TO BE REMOVED SHALL REMAIN IN PLACE UNTIL THEY ARE IN CONFLICT WITH THE CONSTRUCTION STAGING.



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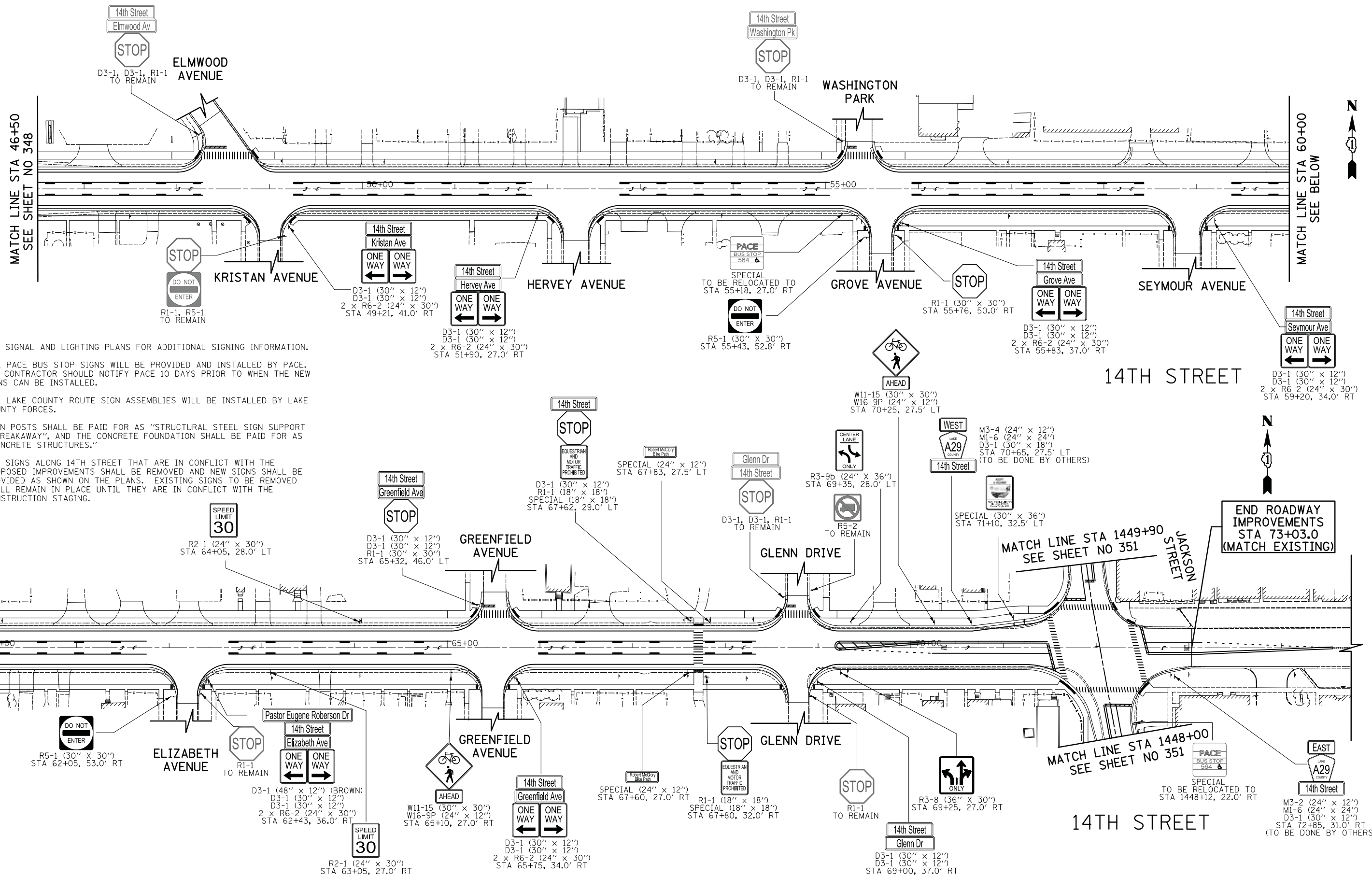
**SIGNING PLANS**  
 SHEET NO. 2 OF 5 SHEETS STA. 21+00.0 TO STA. 46+50.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	348
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



DATE	
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NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



**NOTE:**

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- ALL LAKE COUNTY ROUTE SIGN ASSEMBLIES WILL BE INSTALLED BY LAKE COUNTY FORCES.
- SIGN POSTS SHALL BE PAID FOR AS "STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY", AND THE CONCRETE FOUNDATION SHALL BE PAID FOR AS "CONCRETE STRUCTURES."
- ALL SIGNS ALONG 14TH STREET THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND NEW SIGNS SHALL BE PROVIDED AS SHOWN ON THE PLANS. EXISTING SIGNS TO BE REMOVED SHALL REMAIN IN PLACE UNTIL THEY ARE IN CONFLICT WITH THE CONSTRUCTION STAGING.

MATCH LINE STA 60+00  
SEE ABOVE

MATCH LINE STA 46+50  
SEE SHEET NO 348

MATCH LINE STA 60+00  
SEE BELOW

MATCH LINE STA 1449+90  
SEE SHEET NO 351

MATCH LINE STA 1448+00  
SEE SHEET NO 351

END ROADWAY IMPROVEMENTS  
STA 73+03.0  
(MATCH EXISTING)

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**SIGNING PLANS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	349
CONTRACT NO. 61F33				
SHEET NO. 3 OF 5 SHEETS STA. 46+50.0 TO STA. 74+00.0				

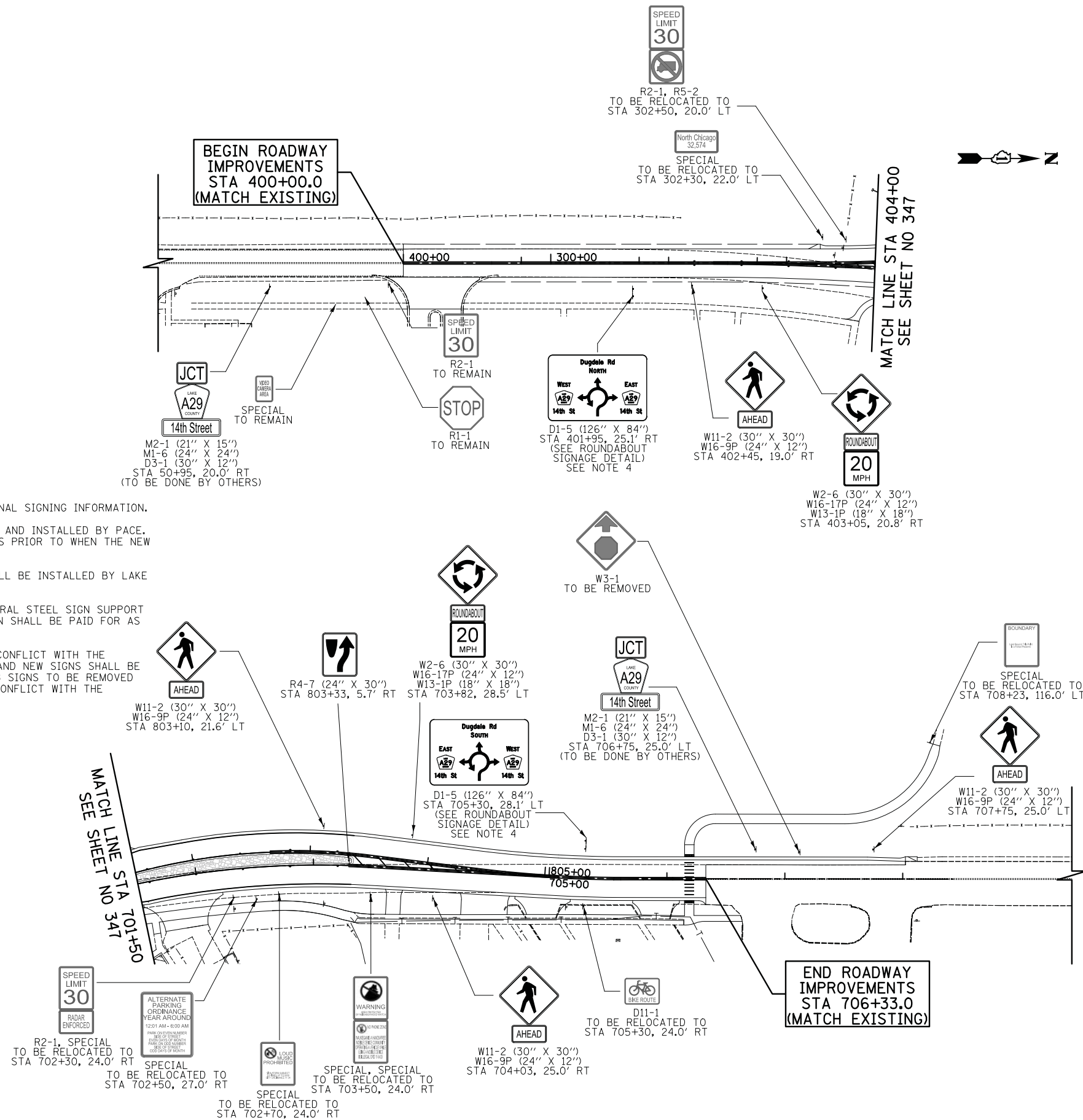
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
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TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

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- ALL SIGNS ALONG 14TH STREET THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND NEW SIGNS SHALL BE PROVIDED AS SHOWN ON THE PLANS. EXISTING SIGNS TO BE REMOVED SHALL REMAIN IN PLACE UNTIL THEY ARE IN CONFLICT WITH THE CONSTRUCTION STAGING.



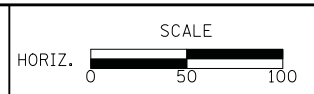
DUGDALE ROAD

DUGDALE ROAD

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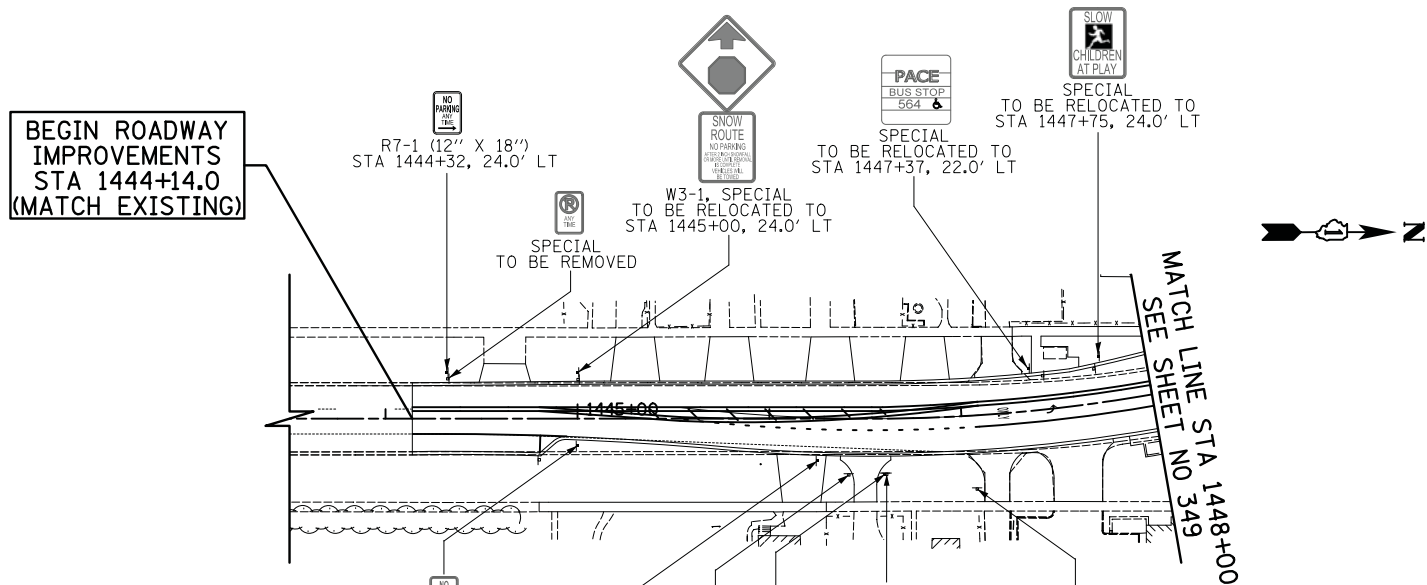
**SIGNING PLANS**

SHEET NO. 4 OF 5 SHEETS STA. 400+00.0 TO STA. 706+33.0

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	350
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

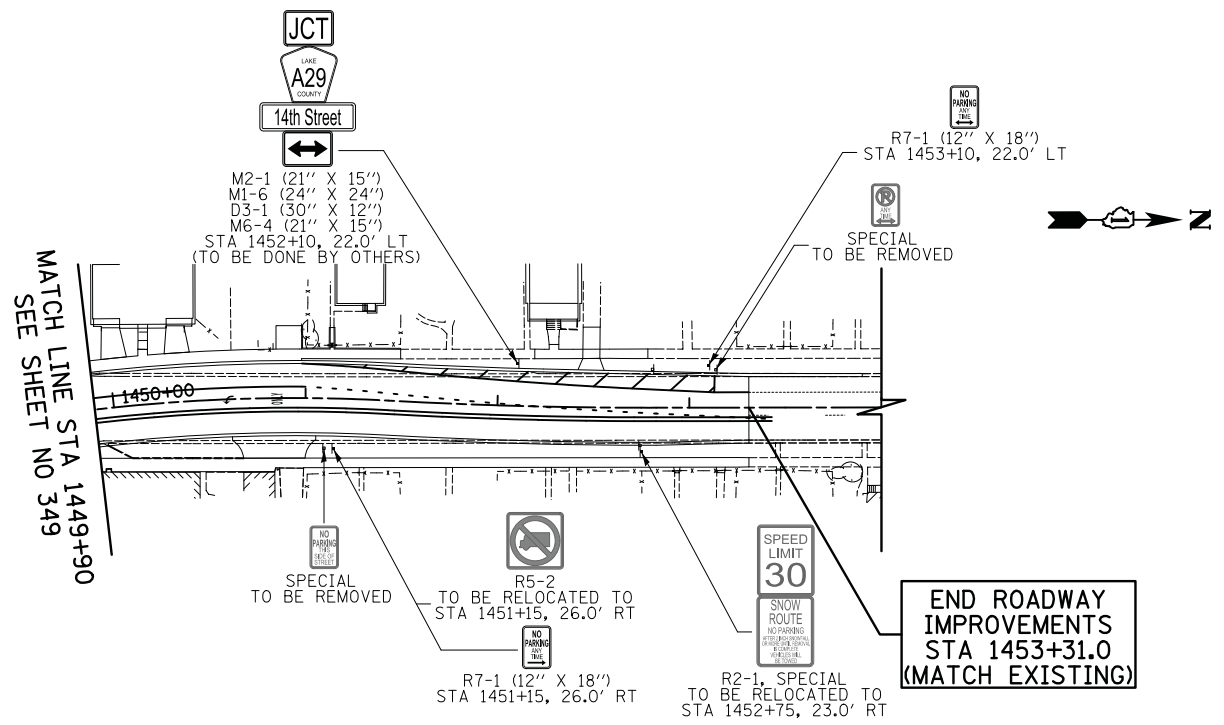
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



**NOTE:**

1. SEE SIGNAL AND LIGHTING PLANS FOR ADDITIONAL SIGNING INFORMATION.
2. ALL PACE BUS STOP SIGNS WILL BE PROVIDED AND INSTALLED BY PACE. THE CONTRACTOR SHOULD NOTIFY PACE 10 DAYS PRIOR TO WHEN THE NEW SIGNS CAN BE INSTALLED.
3. ALL LAKE COUNTY ROUTE SIGN ASSEMBLIES WILL BE INSTALLED BY LAKE COUNTY FORCES.
4. SIGN POSTS SHALL BE PAID FOR AS "STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY", AND THE CONCRETE FOUNDATION SHALL BE PAID FOR AS "CONCRETE STRUCTURES."
5. ALL SIGNS ALONG 14TH STREET THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED AND NEW SIGNS SHALL BE PROVIDED AS SHOWN ON THE PLANS. EXISTING SIGNS TO BE REMOVED SHALL REMAIN IN PLACE UNTIL THEY ARE IN CONFLICT WITH THE CONSTRUCTION STAGING.

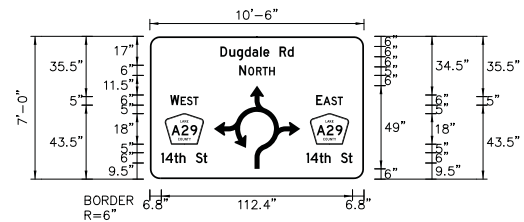


JACKSON STREET

JACKSON STREET

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

SIGN DETAIL  
150



SIGN NUMBER	D1-5
WIDTH x HIGHT	10'-6" x 7'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
COLOR	Purple
LEGEND/BORDER	TYPE: Reflective
COLOR	White/White

SYMBOL	ROT	X	Y	WID	HT
M1_6_3	0	9.1	20.5	22.5	18
M1_6_3	0	94.5	20.5	22.5	18
AR_ROUNDABOUT	37.7	6	49	50.8	

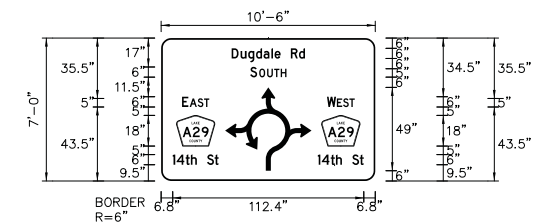
Panel Style: Roundabout.ssi  
Dimensions are in inches/centis

Panel Style: Roundabout.ssi  
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE	
D	u	g	d	a	i	e		R	d				
41.5	46.7	51.2	55.8	60.3	64.8	66.8	70.3	76.3	81			43.2	D 2000
N	O	R	T	H									
52.6	57.9	62.5	66.3	70.2								21	D 2000
W	E	S	T										
12	18.1	21.7	25.5									16.6	D 2000
E	A	S	T										
97.8	102.1	106.7	110.5									15.8	D 2000
1	4	t	h	S	t								
6.8	9.1	14.4	17.5	21	27	31.4						27.1	D 2000
1	4	t	h	S	t								
92.2	94.5	99.8	102.8	106.4	112.4	116.8						27.1	D 2000

SIGN DETAIL  
150



SIGN NUMBER	D1-5
WIDTH x HIGHT	10'-6" x 7'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
COLOR	Purple
LEGEND/BORDER	TYPE: Reflective
COLOR	White/White

SYMBOL	ROT	X	Y	WID	HT
M1_6_3	0	9.1	20.5	22.5	18
M1_6_3	0	94.5	20.5	22.5	18
AR_ROUNDABOUT	37.7	6	49	50.8	

Panel Style: Roundabout.ssi  
Dimensions are in inches/centis

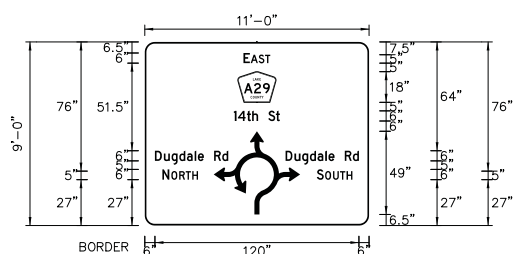
Panel Style: Roundabout.ssi  
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE	
D	u	g	d	a	i	e		R	d				
41.5	46.7	51.2	55.8	60.3	64.8	66.8	70.3	76.3	81			43.1	D 2000
S	O	U	T	H									
52.4	57.7	62.3	66.5	70.3								21.3	D 2000
E	A	S	T										
12.3	16.8	21.5	25.3									16.1	D 2000
W	E	S	T										
97.6	103.4	107	110.8									16.3	D 2000
1	4	t	h	S	t								
6.8	9.1	14.4	17.5	21	27	31.5						27.1	D 2000
1	4	t	h	S	t								
92.2	94.5	99.8	102.8	106.4	112.4	116.8						27.1	D 2000

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

SIGN DETAIL  
150



SIGN NUMBER	D1-5
WIDTH x HIGHT	11'-0" x 9'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
COLOR	Purple
LEGEND/BORDER	TYPE: Reflective
COLOR	White/White

SYMBOL	ROT	X	Y	WID	HT
M1_6_3	0	54.8	72.5	22.5	18
AR_ROUNDABOUT	40.6	6.5	49	50.8	

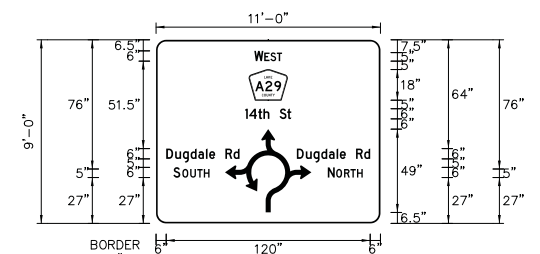
Panel Style: Roundabout.ssi  
Dimensions are in inches/centis

Panel Style: Roundabout.ssi  
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)											LENGTH	SERIES SIZE	
E	A	S	T										
58.1	62.3	67	70.8									15.8	D 2000
1	4	t	h	S	t								
52.5	54.8	60.1	63.2	66.7	72.7	77.1						27.1	D 2000
D	u	g	d	a	i	e		R	d				
6	11.2	15.7	20.3	24.8	29.3	31.3	34.8	40.8	45.5			43.1	D 2000
D	u	g	d	a	i	e		R	d				
82.9	88.1	92.6	97.1	101.6	106.2	108.1	111.7	117.7	122.4			43.1	D 2000
N	O	R	T	H									
10.4	15.6	20.3	24.1	27.9								21	D 2000
S	O	U	T	H									
101.2	106.1	110.8	114.9	118.8								20.9	D 2000

SIGN DETAIL  
150



SIGN NUMBER	D1-5
WIDTH x HIGHT	11'-0" x 9'-0"
BORDER WIDTH	1"
CORNER RADIUS	6"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
COLOR	Purple
LEGEND/BORDER	TYPE: Reflective
COLOR	White/White

SYMBOL	ROT	X	Y	WID	HT
M1_6_3	0	54.8	72.5	22.5	18
AR_ROUNDABOUT	40.6	6.5	49	50.8	

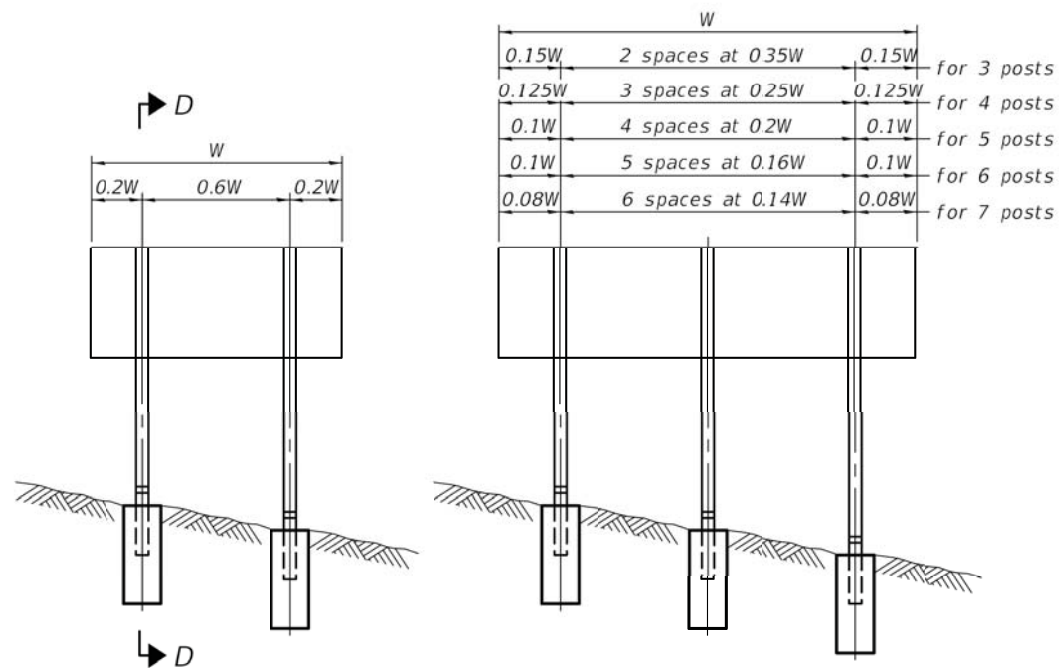
Panel Style: Roundabout.ssi  
Dimensions are in inches/centis

Panel Style: Roundabout.ssi  
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

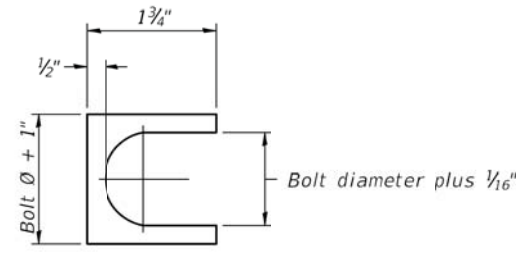
LETTER POSITIONS (X)											LENGTH	SERIES SIZE	
W	E	S	T										
57.8	63.7	67.3	71.1									16.4	D 2000
1	4	t	h	S	t								
52.5	54.8	60.1	63.2	66.7	72.7	77.1						27.1	D 2000
D	u	g	d	a	i	e		R	d				
6	11.2	15.7	20.3	24.8	29.4	31.3	34.8	40.8	45.6			43.1	D 2000
D	u	g	d	a	i	e		R	d				
82.9	88.1	92.6	97.2	101.7	106.2	108.1	111.7	117.7	122.4			43.2	D 2000
S	O	U	T	H									
10.2	15.5	20.1	24.3	28.1								21.3	D 2000
N	O	R	T	H									
101.1	106	110.6	114.4	118.3								20.6	D 2000





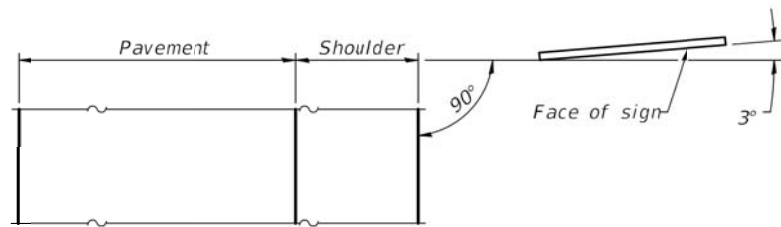
**ELEVATION**

0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts

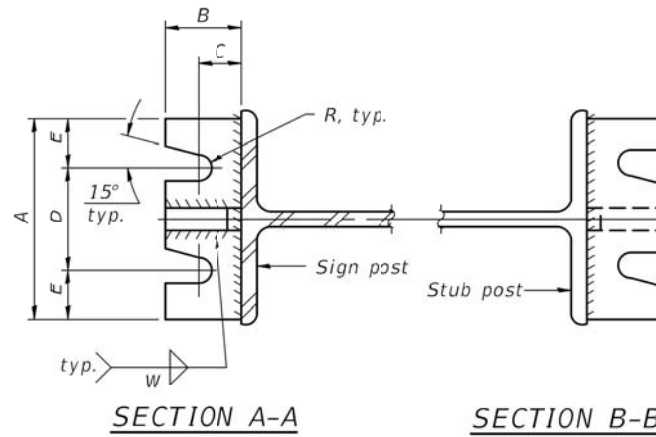


**SHIM DETAIL**

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.



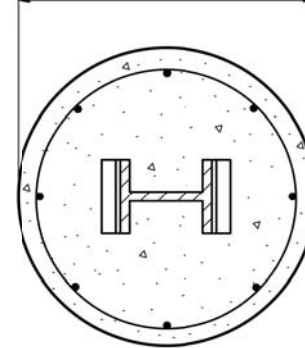
**LOCATION SKETCH**



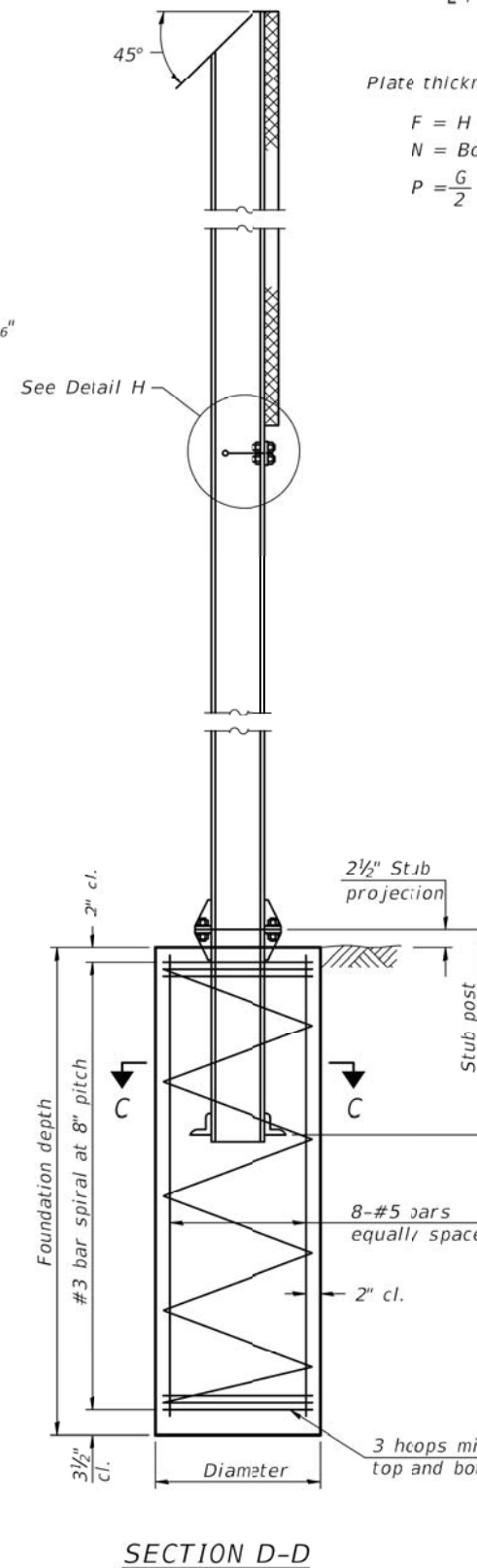
**SECTION A-A**

**SECTION B-B**

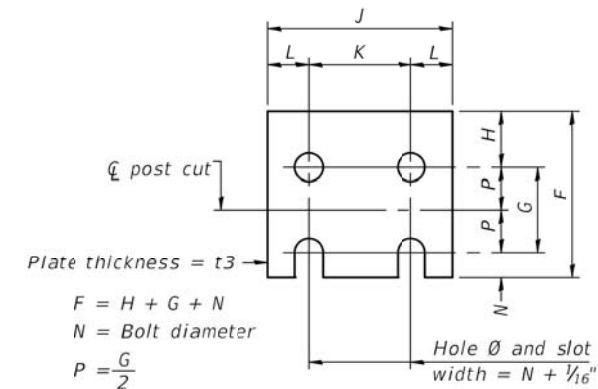
(See table for dimensions.)



**SECTION C-C**

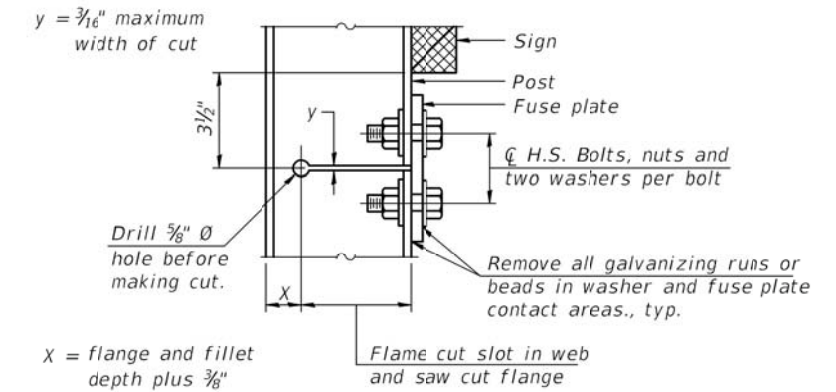


**SECTION D-D**

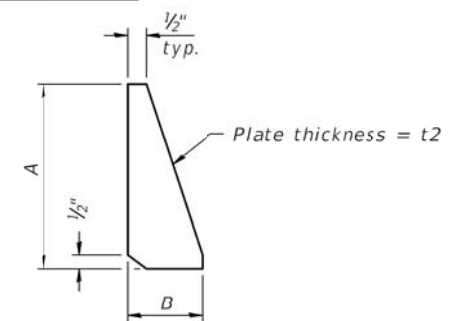


**FUSE PLATE DETAIL**  
(Install with notches down.)

N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



**DETAIL H**



**STIFFENER PLATE DETAIL**

Diameter

**GENERAL NOTES**

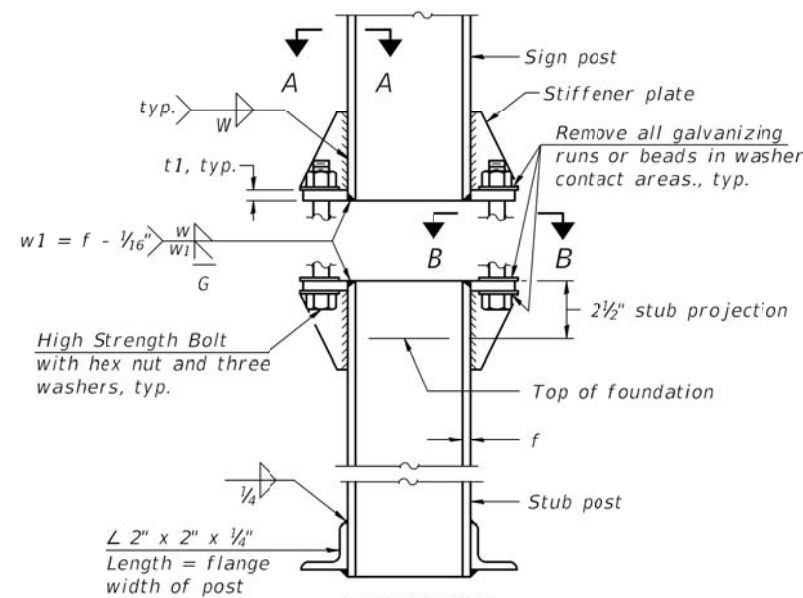
Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be turred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
Structural steel - 20,000 p.s.i.  
Reinforcing steel - 20,000 p.s.i.  
Concrete - 1,400 p.s.i.  
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.



**ELEVATION**  
**SIGN POST & STUB POST**

BAW-A-1

2-17-2017

(Sheet 1 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISIONS -
		CHECKED -	REVISIONS -
		DRAWN -	REVISIONS -
		CHECKED -	REVISIONS -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST DETAILS

SHEET NO. 1 OF 2 SHEETS

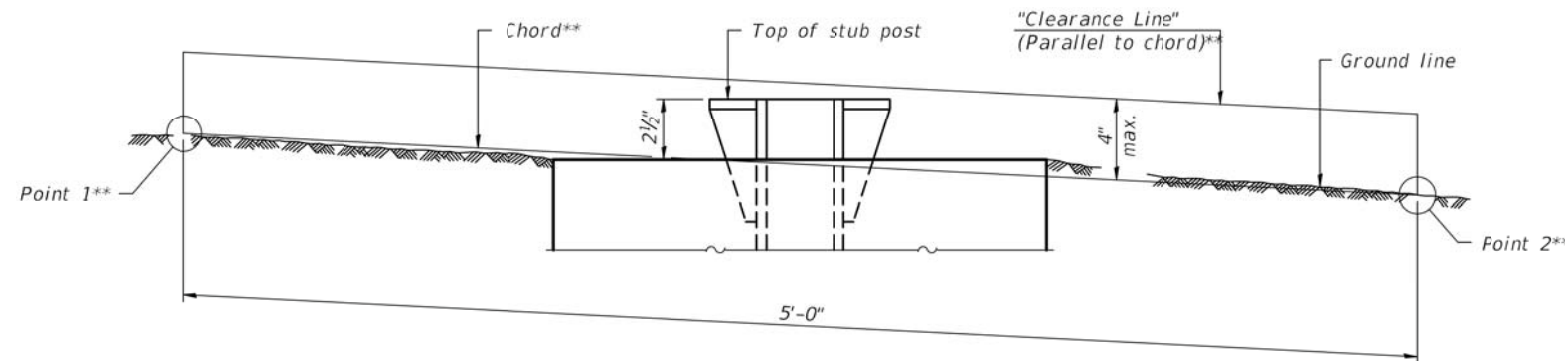
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	353
CONTRACT NO. 61F33				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA				
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t1	t2	R	W	J	K	L	t3	
	Diameter*	Minimum Depth	Concrete (1) c.f. yds.)	Vertical Bars Length	Bar Spirals Diameter	Length																lbs. (2)
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 3/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	1/4"	1 5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	1/4"	1 5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	1/4"	1 5/32"	3/8"	6 3/4"	3 1/2"	1 3/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	1/4"	1 7/32"	3/8"	6 3/4"	3 1/2"	1 3/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	1/4"	1 7/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																				
	Sign Height																				
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—	—	—	—
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—	—
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"
W16x45	—	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"



**ELEVATION  
GROUND LINE & STUB POST**

\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- (1) Quantity includes all concrete necessary for one foundation.
- (2) Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

2-17-2017

(Sheet 2 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISOR -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISOR -			1228	99-00260-01-WR	LAKE	566	354	
		DRAWN -	REVISOR -			<b>CONTRACT NO. 61F33</b>					
		CHECKED -	REVISOR -			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT					



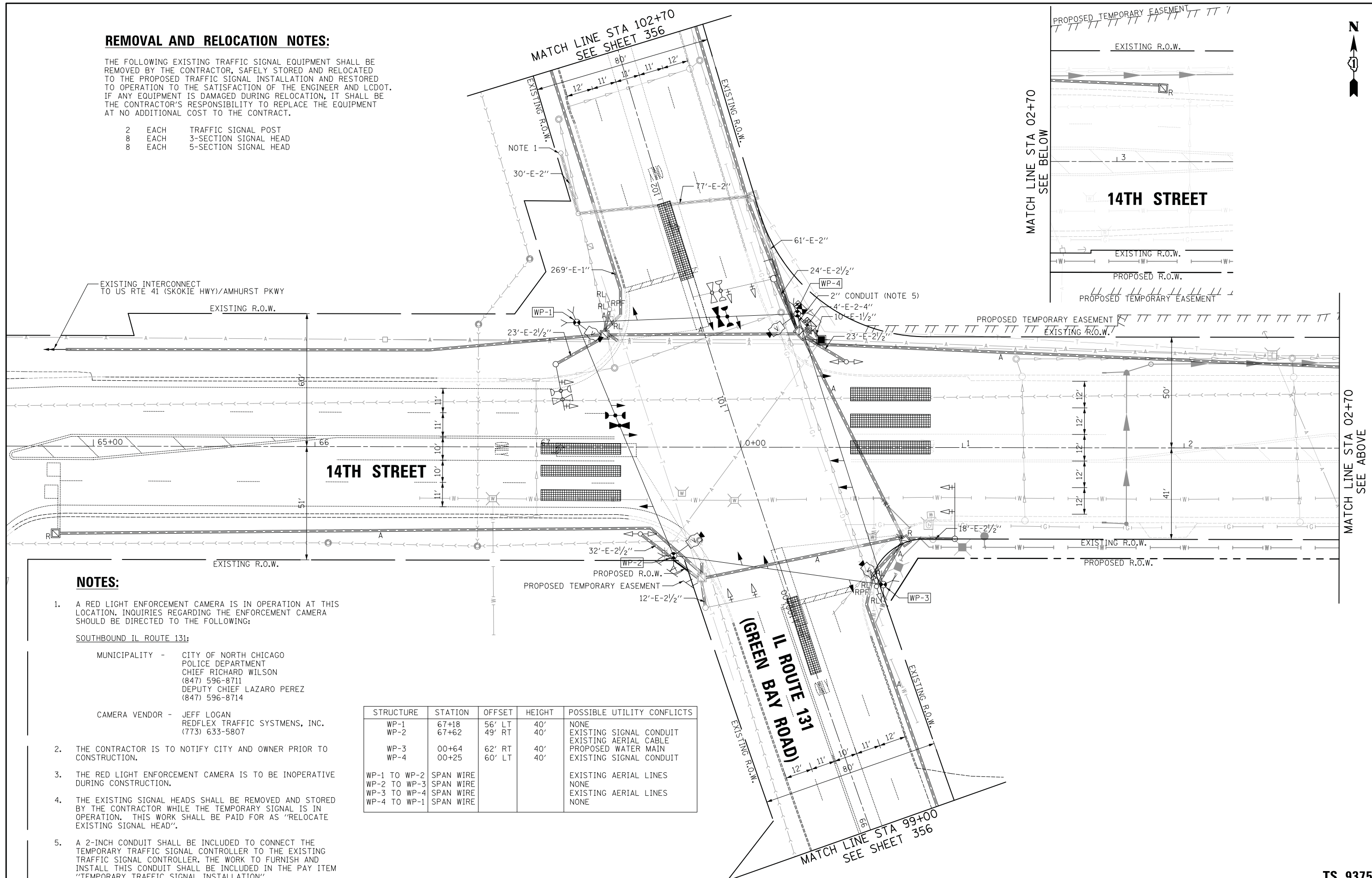
**REMOVAL AND RELOCATION NOTES:**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION AND RESTORED TO OPERATION TO THE SATISFACTION OF THE ENGINEER AND LCDOT. IF ANY EQUIPMENT IS DAMAGED DURING RELOCATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

- 2 EACH TRAFFIC SIGNAL POST
- 8 EACH 3-SECTION SIGNAL HEAD
- 8 EACH 5-SECTION SIGNAL HEAD

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



**NOTES:**

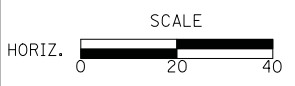
- A RED LIGHT ENFORCEMENT CAMERA IS IN OPERATION AT THIS LOCATION. INQUIRIES REGARDING THE ENFORCEMENT CAMERA SHOULD BE DIRECTED TO THE FOLLOWING:  
**SOUTHBOUND IL ROUTE 131:**  
 MUNICIPALITY - CITY OF NORTH CHICAGO  
 POLICE DEPARTMENT  
 CHIEF RICHARD WILSON  
 (847) 596-8711  
 DEPUTY CHIEF LAZARO PEREZ  
 (847) 596-8714  
  
 CAMERA VENDOR - JEFF LOGAN  
 REDFLEX TRAFFIC SYSTEMS, INC.  
 (773) 633-5807
- THE CONTRACTOR IS TO NOTIFY CITY AND OWNER PRIOR TO CONSTRUCTION.
- THE RED LIGHT ENFORCEMENT CAMERA IS TO BE INOPERATIVE DURING CONSTRUCTION.
- THE EXISTING SIGNAL HEADS SHALL BE REMOVED AND STORED BY THE CONTRACTOR WHILE THE TEMPORARY SIGNAL IS IN OPERATION. THIS WORK SHALL BE PAID FOR AS "RELOCATE EXISTING SIGNAL HEAD".
- A 2-INCH CONDUIT SHALL BE INCLUDED TO CONNECT THE TEMPORARY TRAFFIC SIGNAL CONTROLLER TO THE EXISTING TRAFFIC SIGNAL CONTROLLER. THE WORK TO FURNISH AND INSTALL THIS CONDUIT SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	67+18	56' LT	40'	NONE
WP-2	67+62	49' RT	40'	EXISTING SIGNAL CONDUIT
WP-3	00+64	62' RT	40'	EXISTING AERIAL CABLE
WP-4	00+25	60' LT	40'	PROPOSED WATER MAIN
WP-1 TO WP-2	SPAN WIRE			EXISTING SIGNAL CONDUIT
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			NONE
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES
				NONE

**CIVILTECH**  
 Two Pierce Place, Suite 1400  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
 www.civiltechinc.com

DESIGNED - LEP	REVISED -
DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN**  
**14th STREET AT IL ROUTE 131 (GREEN BAY ROAD)**  
 SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

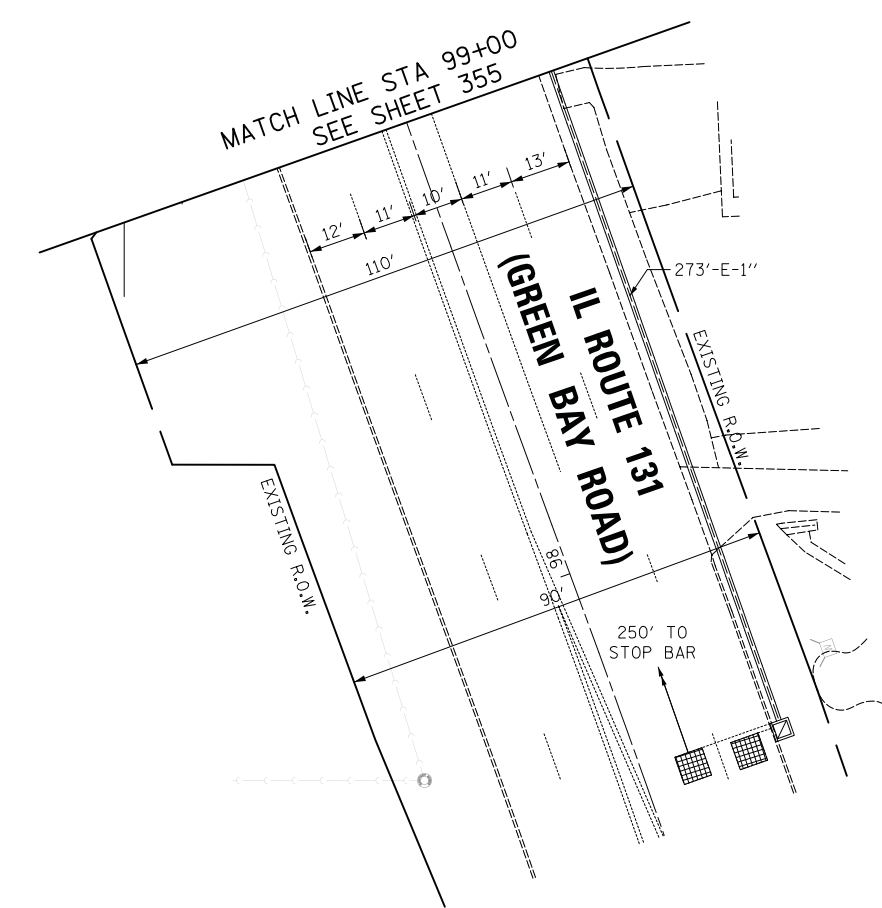
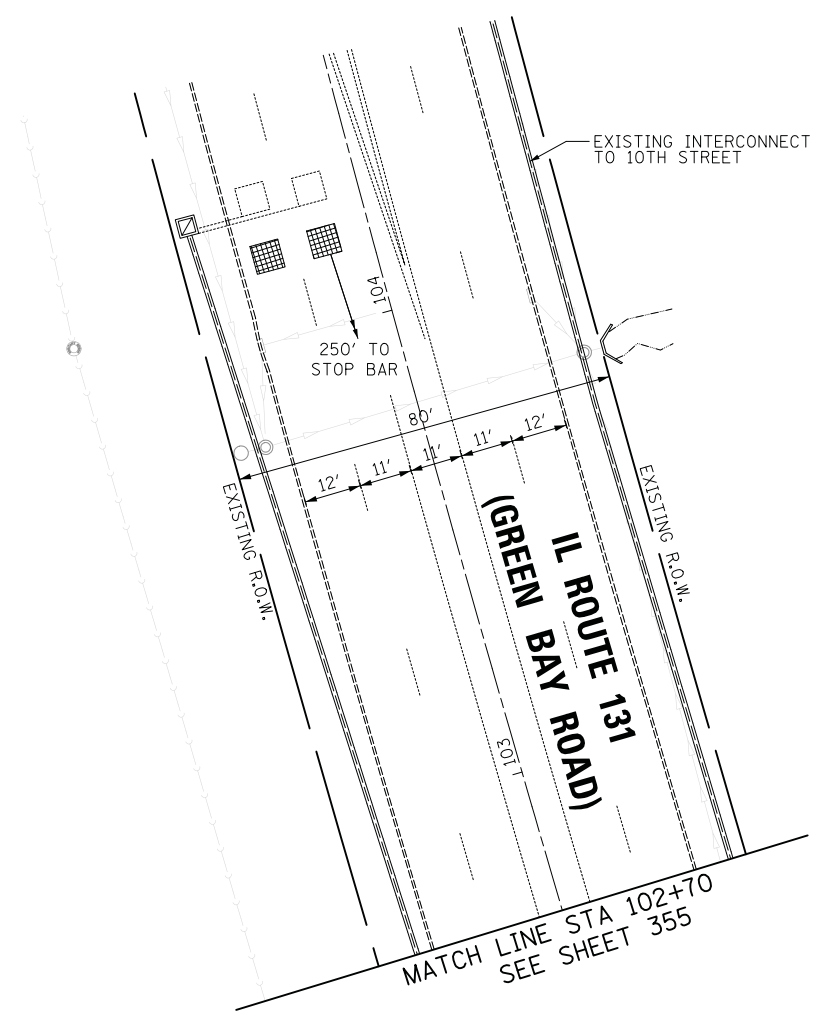
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	355
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**TS 9375**



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

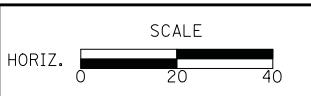
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN  
 14th STREET AT IL ROUTE 131 (GREEN BAY ROAD)**

SCALE: 1" = 20'    SHEET NO. 2 OF 2 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	356
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**TS 9375**





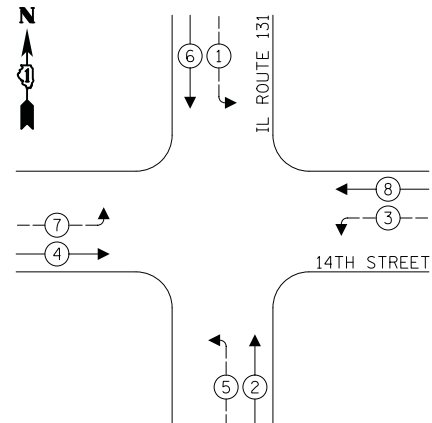




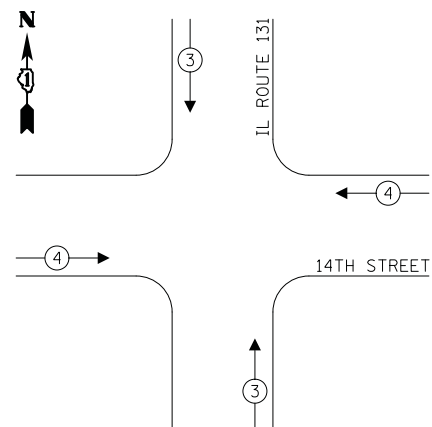
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TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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**PROPOSED TEMPORARY CONTROLLER SEQUENCE**



**PROPOSED TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE**



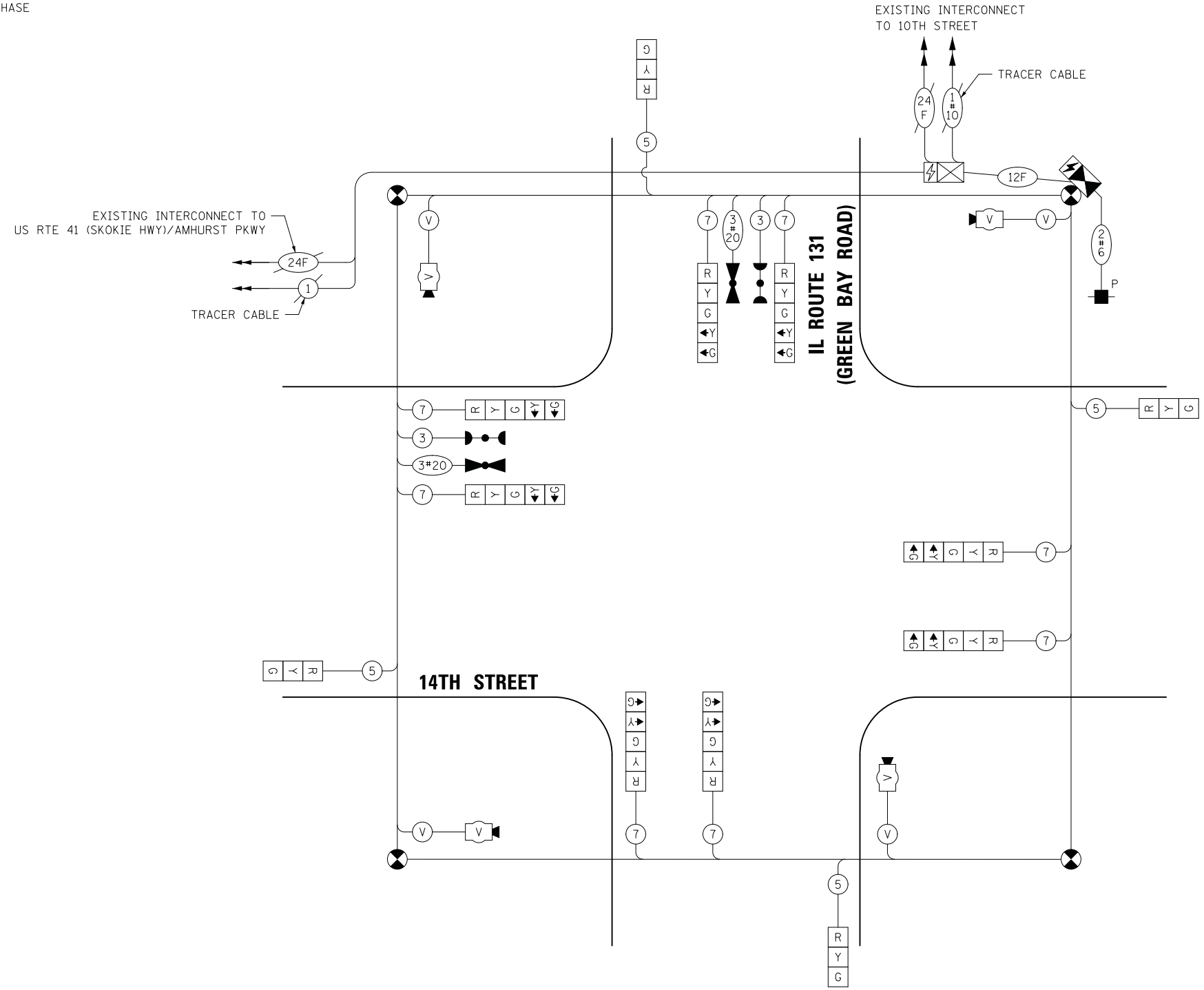
**LEGEND:**

- ← ⊗ → PROTECTED PHASE
- ← ⊗ - - → PROTECTED/PERMITTED PHASE
- ← ⊗ → PEDESTRIAN PHASE
- ← ⊗ OL → OVERLAP

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	50	102.0
(YELLOW)	12	25	5	15.0
(GREEN)	12	15	45	81.0
ARROW	16	12	10	19.2
PED. SIGNAL	-	25	100	-
CONTROLLER	1	100	100	100.0
BATTERY BACKUP	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	400	50	-
TOTAL =				492.2

ENERGY COSTS TO:  
 NORTH CHICAGO  
 201 WEST CENTER COURT  
 SCHAUMBURG, IL 60196-1096  
 ENERGY SUPPLY: CONTACT: VALERIE WESTBROOK  
 PHONE: (847) 816-5489  
 COMPANY: COMED  
 ACCOUNT NUMBER: 0324157020



**CABLE PLAN**

(NOT TO SCALE)

**CIVILTECH**  
 Two Pierce Place, Suite 1400  
 Itasca, Illinois 60143  
 Tel: 630.773.3900 Fax: 630.773.3975  
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DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND SEQUENCES  
 14TH STREET AND IL ROUTE 131 (GREEN BAY ROAD)**  
 SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

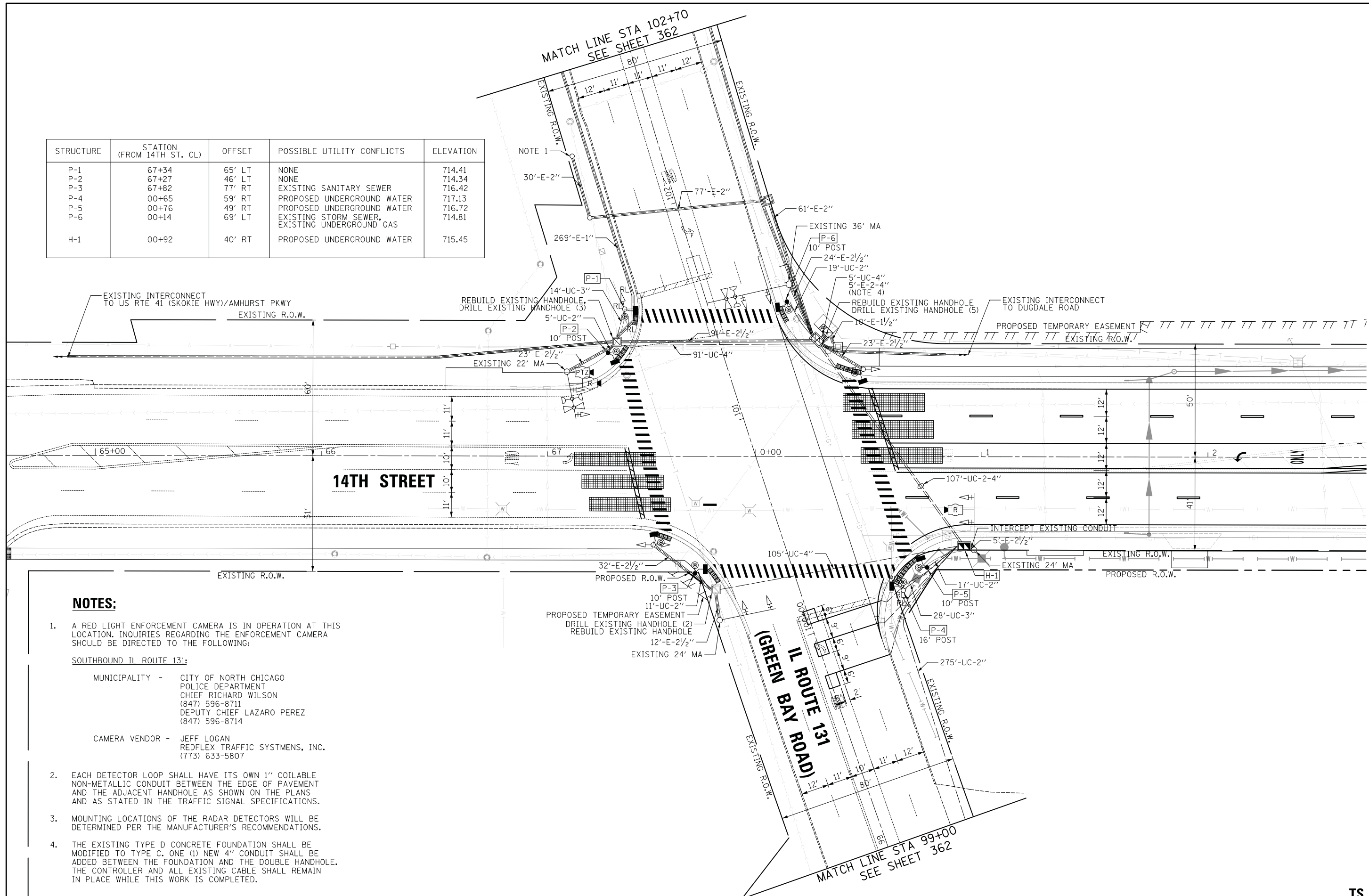
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	360
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**TS 9375**





STRUCTURE	STATION (FROM 14TH ST. CL)	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
P-1	67+34	65' LT	NONE	714.41
P-2	67+27	46' LT	NONE	714.34
P-3	67+82	77' RT	EXISTING SANITARY SEWER	716.42
P-4	00+65	59' RT	PROPOSED UNDERGROUND WATER	717.13
P-5	00+76	49' RT	PROPOSED UNDERGROUND WATER	716.72
P-6	00+14	69' LT	EXISTING STORM SEWER, EXISTING UNDERGROUND GAS	714.81
H-1	00+92	40' RT	PROPOSED UNDERGROUND WATER	715.45



**NOTES:**

- A RED LIGHT ENFORCEMENT CAMERA IS IN OPERATION AT THIS LOCATION. INQUIRIES REGARDING THE ENFORCEMENT CAMERA SHOULD BE DIRECTED TO THE FOLLOWING:  
 SOUTHBOUND IL ROUTE 131:  
 MUNICIPALITY - CITY OF NORTH CHICAGO  
 POLICE DEPARTMENT  
 CHIEF RICHARD WILSON  
 (847) 596-8711  
 DEPUTY CHIEF LAZARO PEREZ  
 (847) 596-8714  
 CAMERA VENDOR - JEFF LOGAN  
 REDFLEX TRAFFIC SYSTEMS, INC.  
 (773) 633-5807
- EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
- MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.
- THE EXISTING TYPE D CONCRETE FOUNDATION SHALL BE MODIFIED TO TYPE C. ONE (1) NEW 4" CONDUIT SHALL BE ADDED BETWEEN THE FOUNDATION AND THE DOUBLE HANDHOLE. THE CONTROLLER AND ALL EXISTING CABLE SHALL REMAIN IN PLACE WHILE THIS WORK IS COMPLETED.

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TEMPLATE	
AREAS CHECKED	
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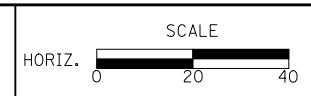
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

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 CHECKED - JJE  
 DATE - 11/7/2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**TRAFFIC SIGNAL MODIFICATION PLAN**  
**14th STREET AT IL ROUTE 131 (GREEN BAY ROAD)**

SCALE: 1" = 20'  
 SHEET NO. 1 OF 2 SHEETS  
 STA. TO STA.

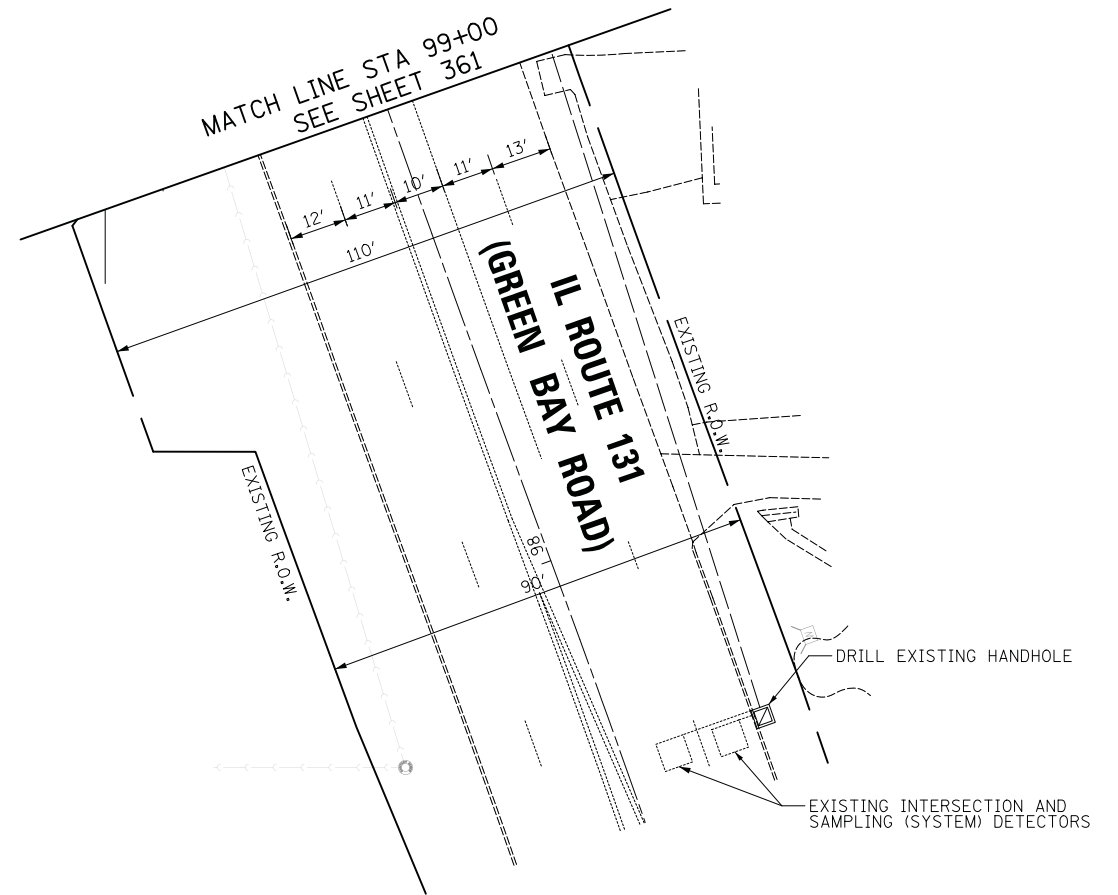
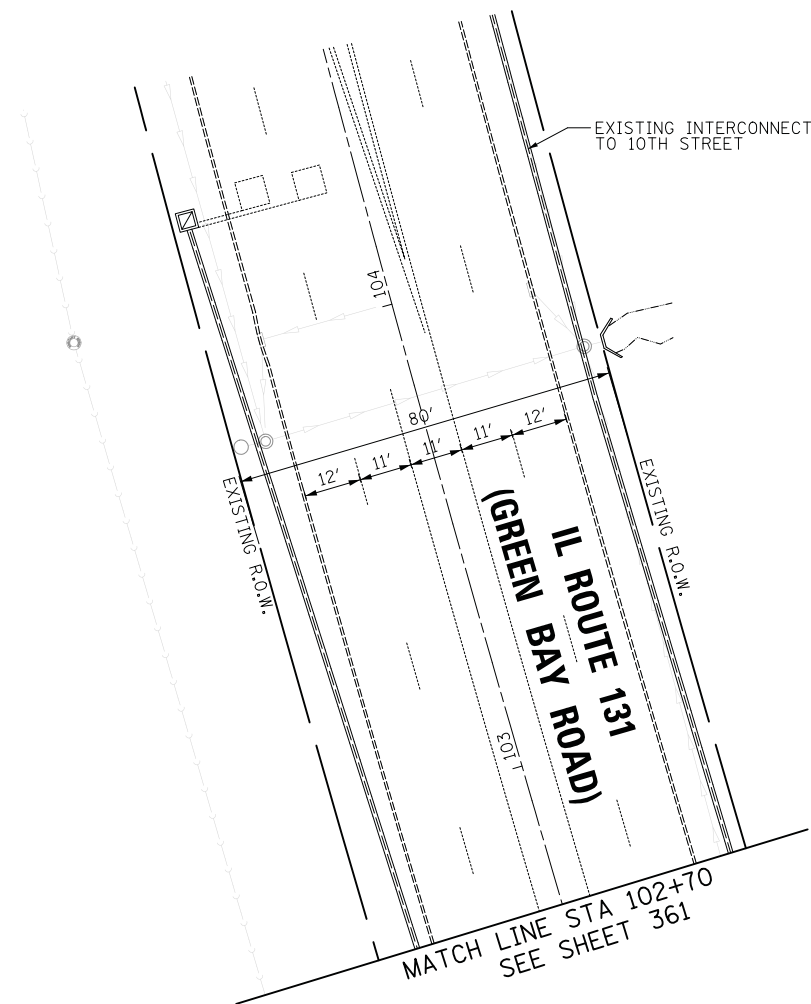
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	361
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**TS 9375**



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

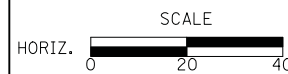
ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/7/2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



TRAFFIC SIGNAL MODIFICATION PLAN  
14th STREET AT IL ROUTE 131 (GREEN BAY ROAD)

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

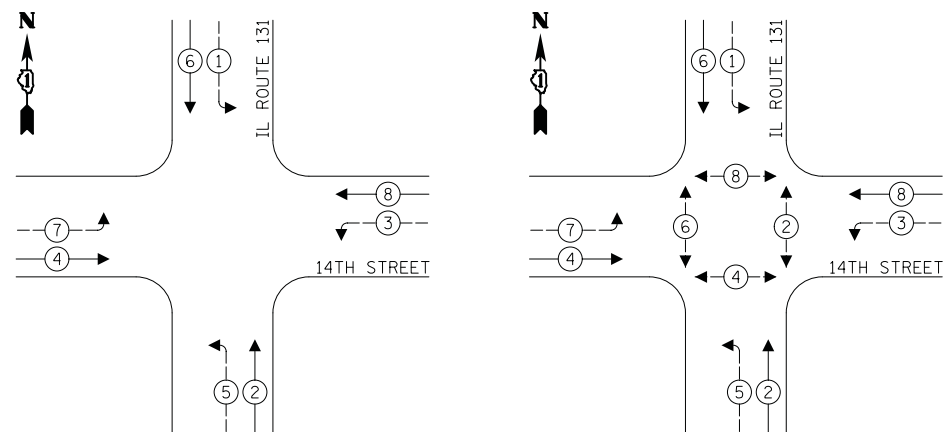
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	362
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TS 9375

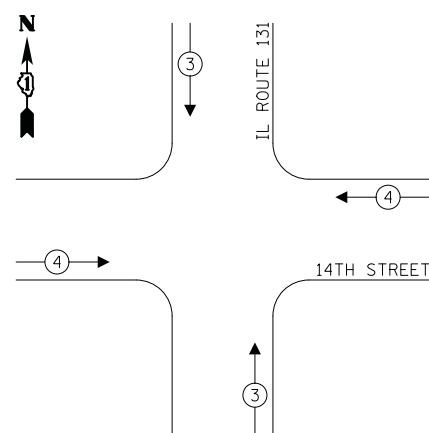
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**EXISTING CONTROLLER SEQUENCE      PROPOSED CONTROLLER SEQUENCE**



**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	327
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	42
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	415
DOUBLE HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1315
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1371
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1130
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1152
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	991
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	553
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	3
CONCRETE FOUNDATION, TYPE A	FOOT	20
DRILL EXISTING HANDHOLE	EACH	11
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
DETECTOR LOOP, TYPE I	FOOT	151
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	16
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1026
REBUILD EXISTING HANDHOLE	EACH	3
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
MODIFY EXISTING TYPE "D" FOUNDATION	EACH	1
* ROD AND CLEAN EXISTING CONDUIT	FOOT	100
OUTDOOR RATED NETWORK CABLE	FOOT	168
RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR	EACH	2
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

\* NOMINAL QUANTITY INCLUDED; SHALL BE USED AS DIRECTED BY THE ENGINEER

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	17	50	136.0
(YELLOW)	16	25	5	20.0
(GREEN)	16	15	45	108.0
ARROW	16	12	10	19.2
PED. SIGNAL	8	25	100	200.0
CONTROLLER	1	100	100	100.0
BATTERY BACKUP	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	400	50	-
TOTAL =				608.2

ENERGY COSTS TO:

CITY OF NORTH CHICAGO  
1850 LEWIS AVENUE  
NORTH CHICAGO, IL 60064

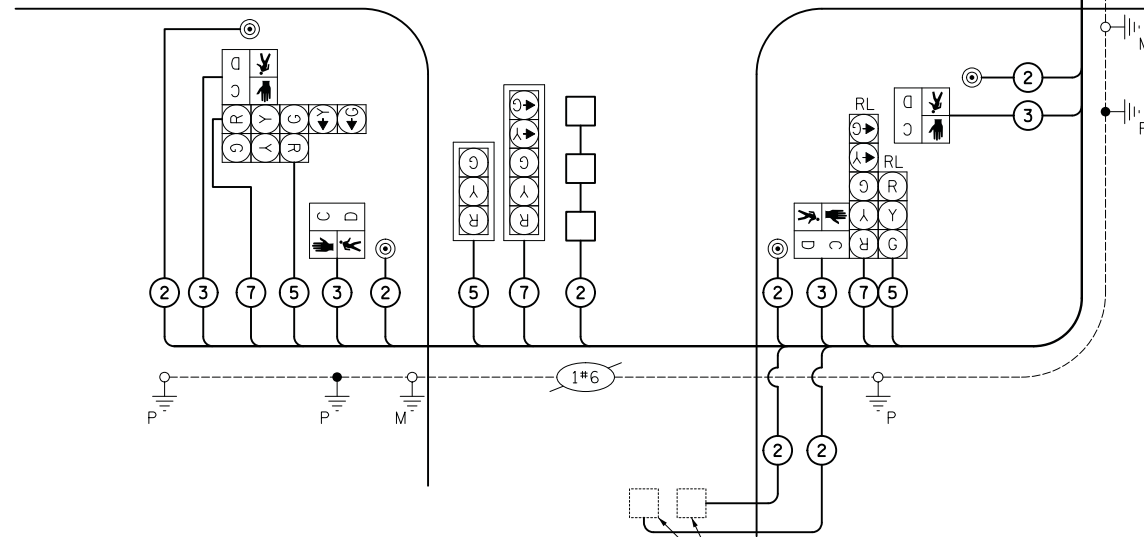
ENERGY SUPPLY: CONTACT: VALERIE WESTBROOK  
PHONE: (847) 816-5489  
COMPANY: COMED  
ACCOUNT NUMBER: 0324157020

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Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

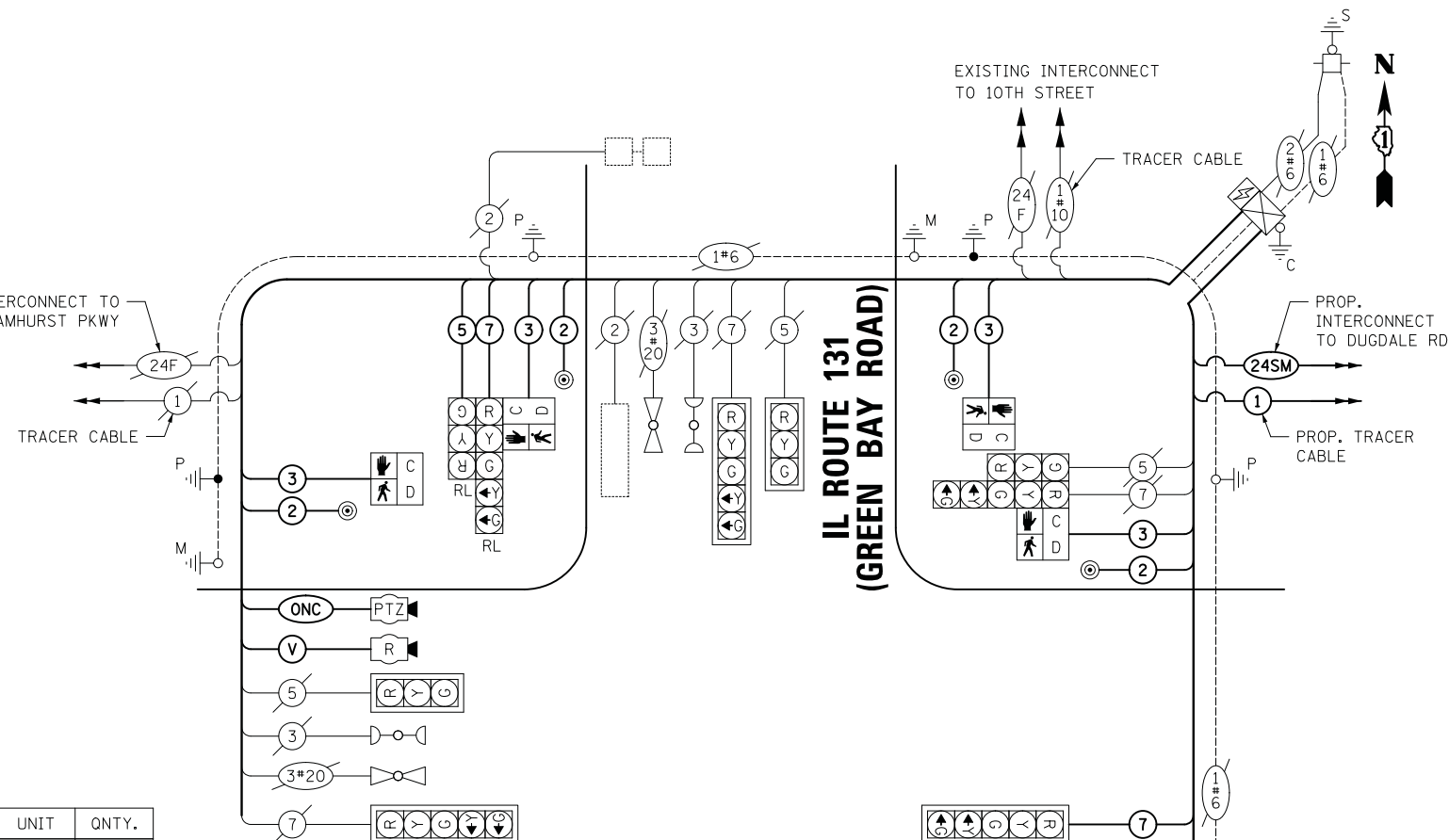
**14TH STREET**



**CABLE PLAN**

(NOT TO SCALE)

EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



**TS 9375**

**CABLE PLAN, SEQUENCES AND SCHEDULE OF QUANTITIES  
14TH STREET AND IL ROUTE 131 (GREEN BAY ROAD)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	363
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

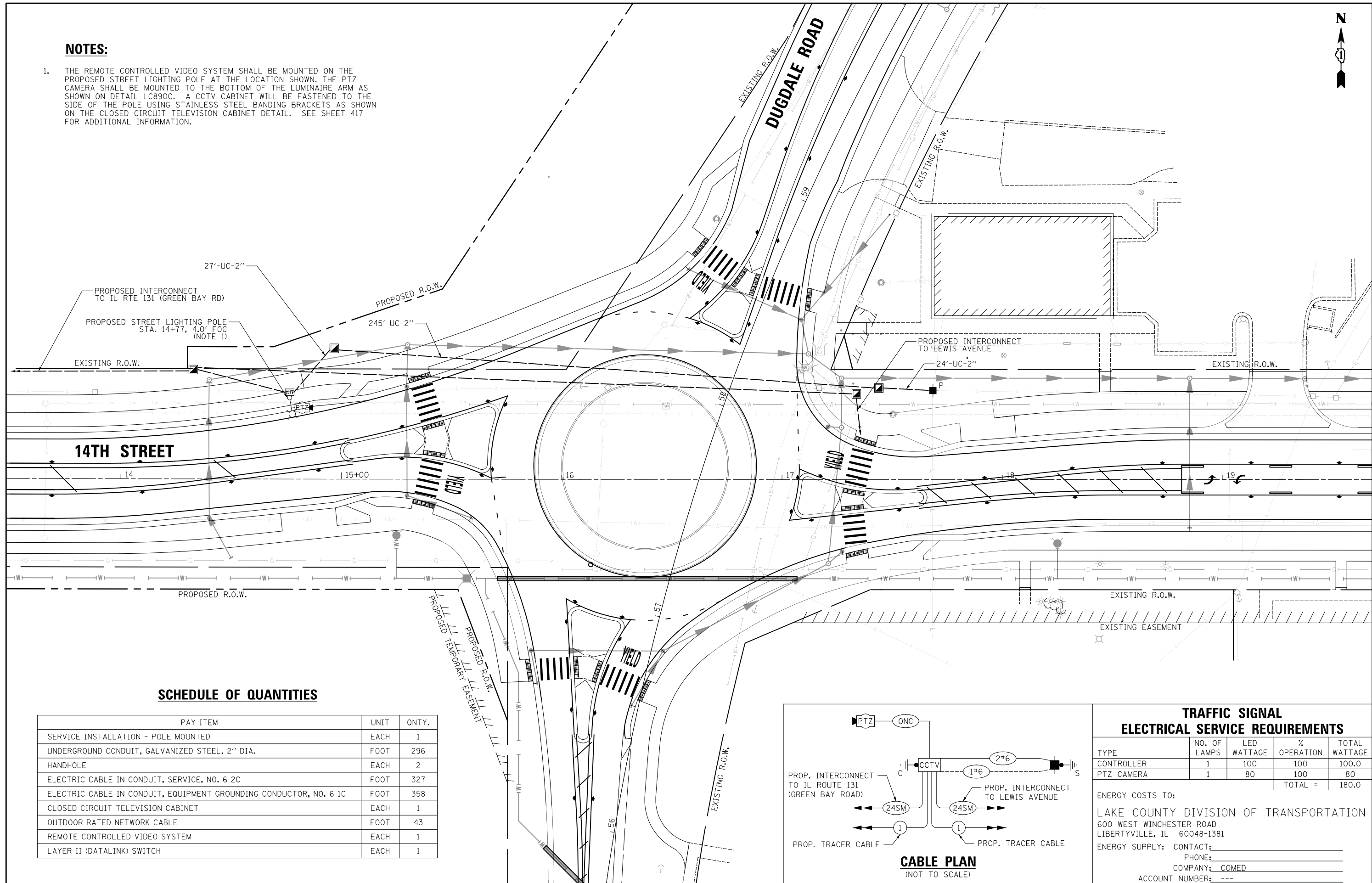
**NOTES:**

1. THE REMOTE CONTROLLED VIDEO SYSTEM SHALL BE MOUNTED ON THE PROPOSED STREET LIGHTING POLE AT THE LOCATION SHOWN. THE PTZ CAMERA SHALL BE MOUNTED TO THE BOTTOM OF THE LUMINAIRE ARM AS SHOWN ON DETAIL LC8900. A CCTV CABINET WILL BE FASTENED TO THE SIDE OF THE POLE USING STAINLESS STEEL BANDING BRACKETS AS SHOWN ON THE CLOSED CIRCUIT TELEVISION CABINET DETAIL. SEE SHEET 417 FOR ADDITIONAL INFORMATION.



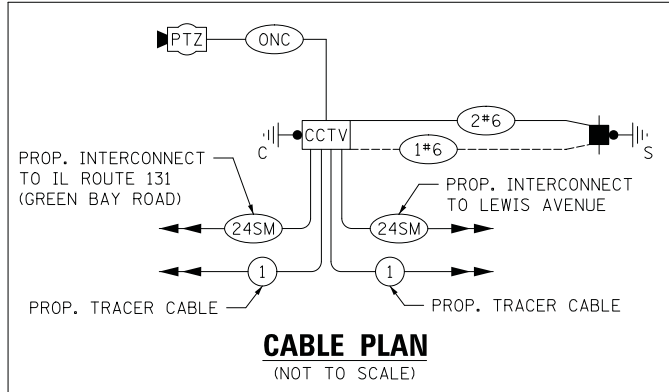
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NOTE BOOK	
AREAS CHECKED	
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**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	296
HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	327
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	358
CLOSED CIRCUIT TELEVISION CABINET	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	43
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1



**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
CONTROLLER	1	100	100	100.0
PTZ CAMERA	1	80	100	80
<b>TOTAL =</b>				<b>180.0</b>

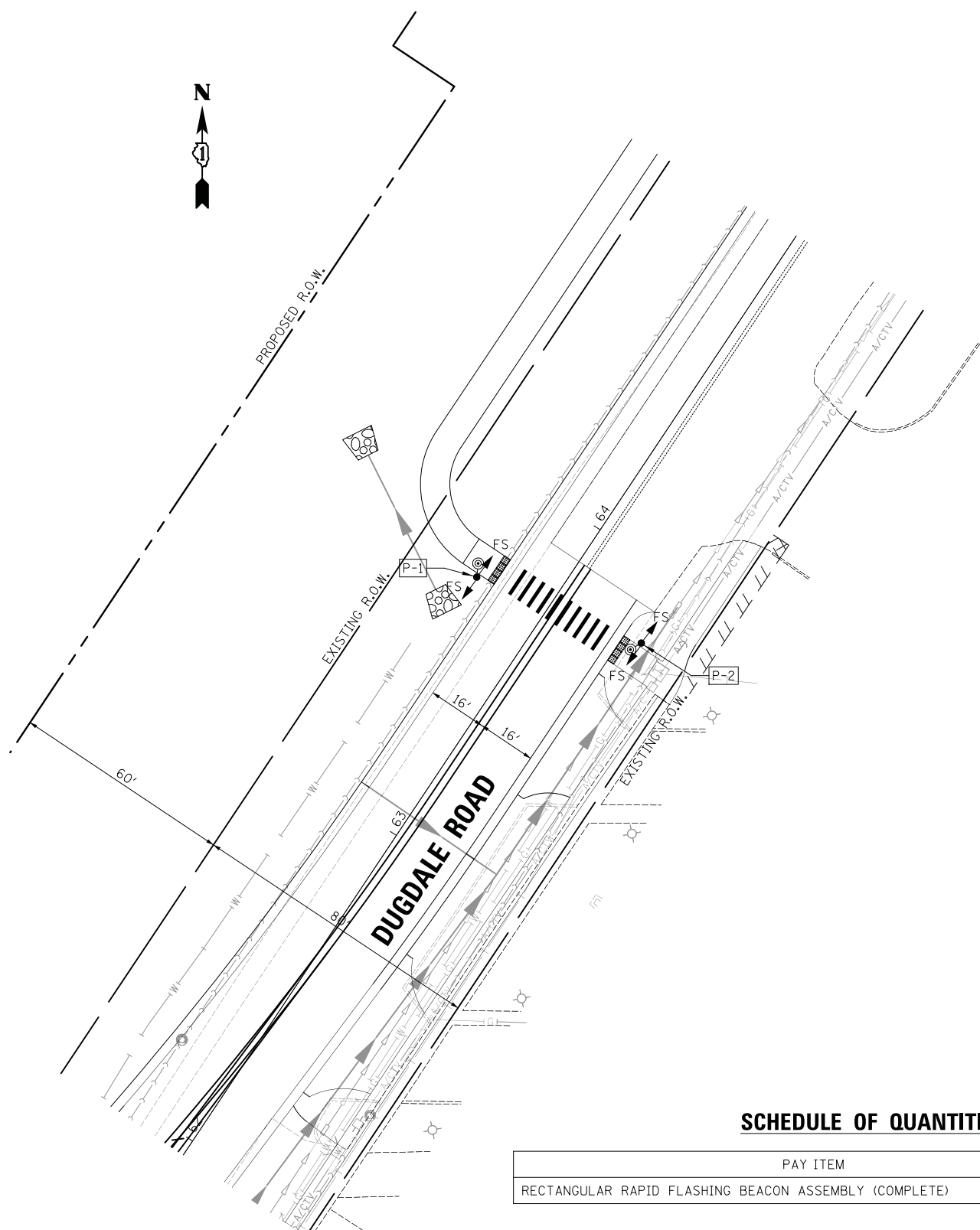
ENERGY COSTS TO:  
 LAKE COUNTY DIVISION OF TRANSPORTATION  
 600 WEST WINCHESTER ROAD  
 LIBERTYVILLE, IL 60048-1381  
 ENERGY SUPPLY: CONTACT: \_\_\_\_\_  
 PHONE: \_\_\_\_\_  
 COMPANY: COMED  
 ACCOUNT NUMBER: ---



STRUCTURE	STATION	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
P-1	63+71	21' LT	NONE	
P-2	63+81	26' RT	NONE	
P-3	24+67	33' LT	UNDERGROUND WATER, PROPOSED STORM SEWER	
P-4	24+74	29' RT	NONE	

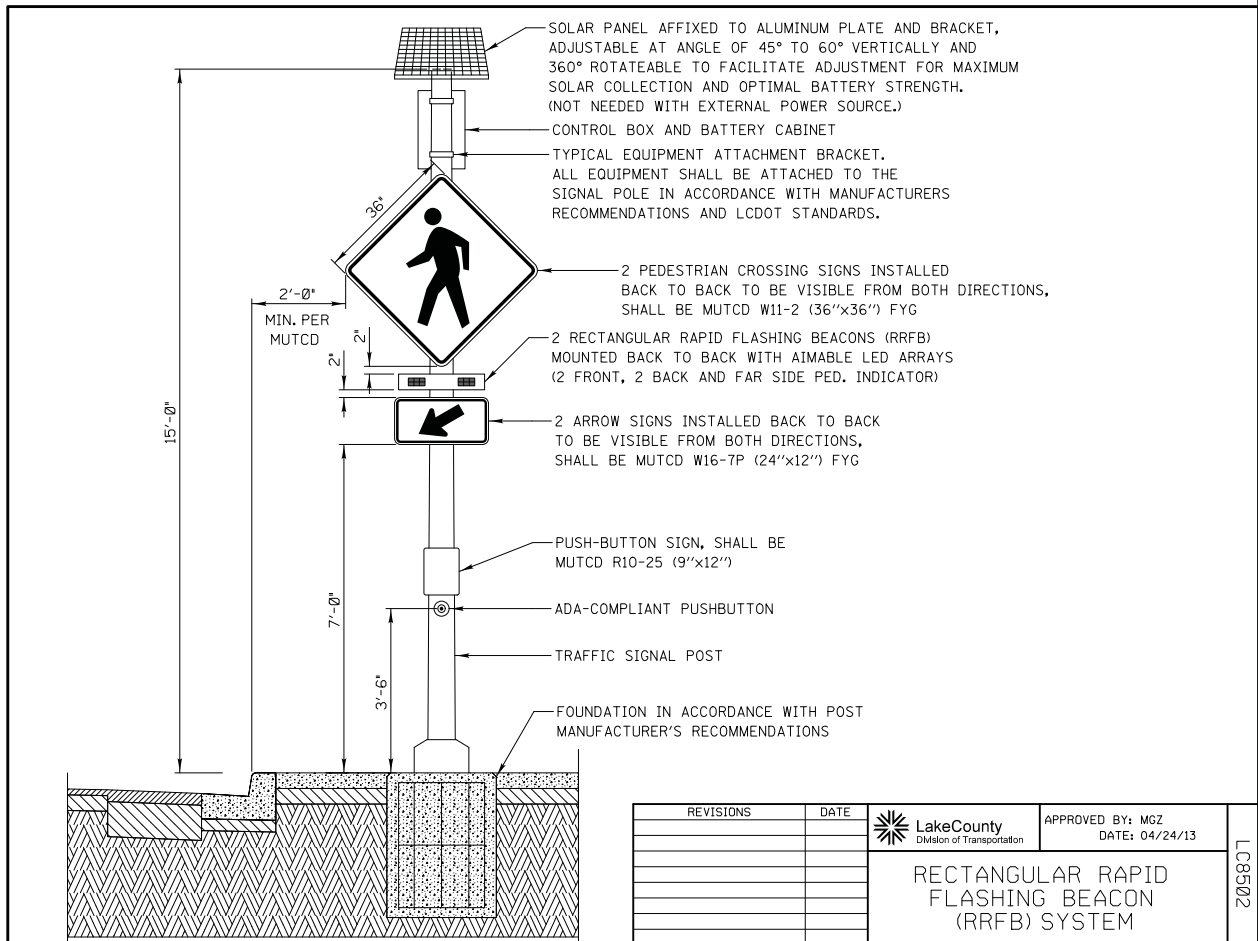
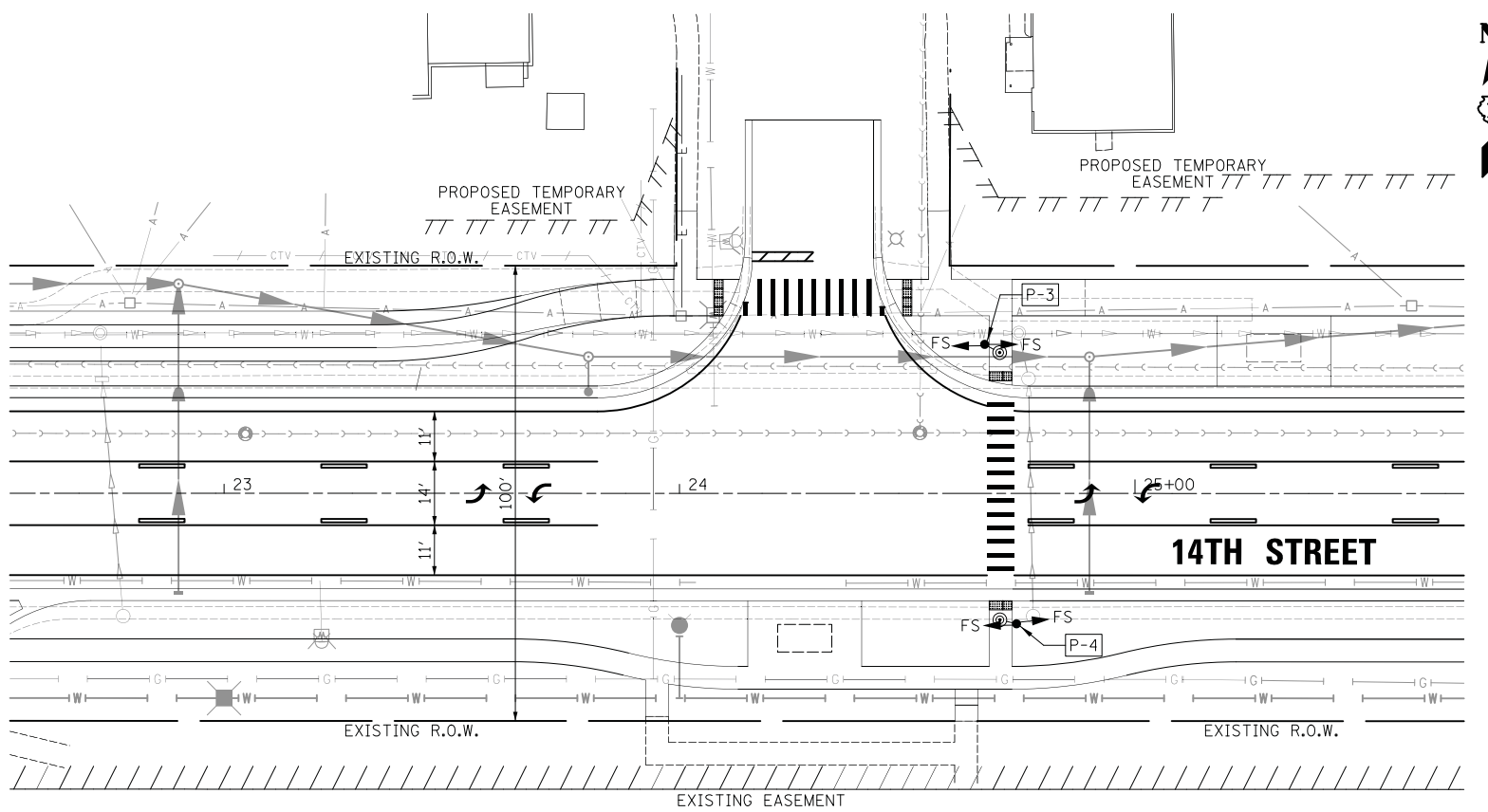
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DATE	
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TEMPLATE	
AREAS CHECKED	
NO.	



**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	4



REVISIONS	DATE	APPROVED BY: MGZ DATE: 04/24/13
		<b>RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM</b>
F.A.U. R.T.E. 1228	SECTION 99-00260-01-WR	COUNTY LAKE
TOTAL SHEETS 566		SHEET NO. 365
CONTRACT NO. 61F33		

**CIVILTECH**  
Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

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DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

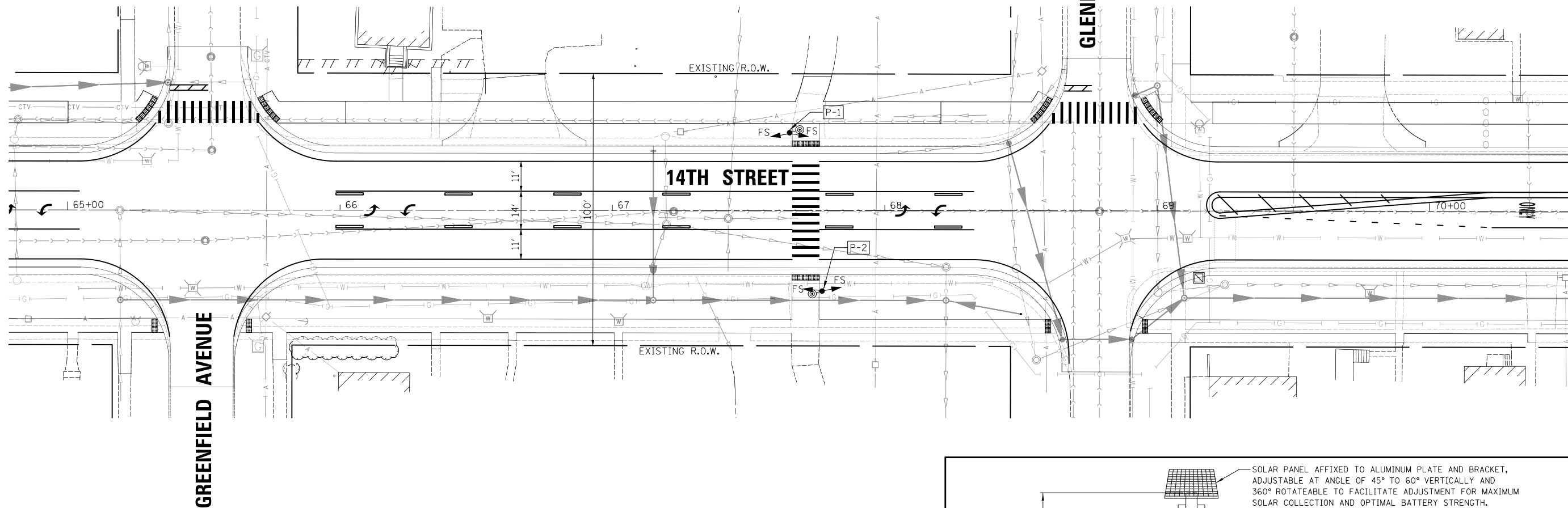


**FLASHING BEACON INSTALLATION PLAN**  
**DUGDALE ROAD AT STA. 63+70, 14TH STREET AT STA. 24+70**  
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. R.T.E. 1228	SECTION 99-00260-01-WR	COUNTY LAKE	TOTAL SHEETS 566	SHEET NO. 365
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LC8502

STRUCTURE	STATION	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
P-1	67+65	29' LT	NONE	
P-2	67+77	30' RT	UNDERGROUND WATER LINE, UNDERGROUND GAS LINE	

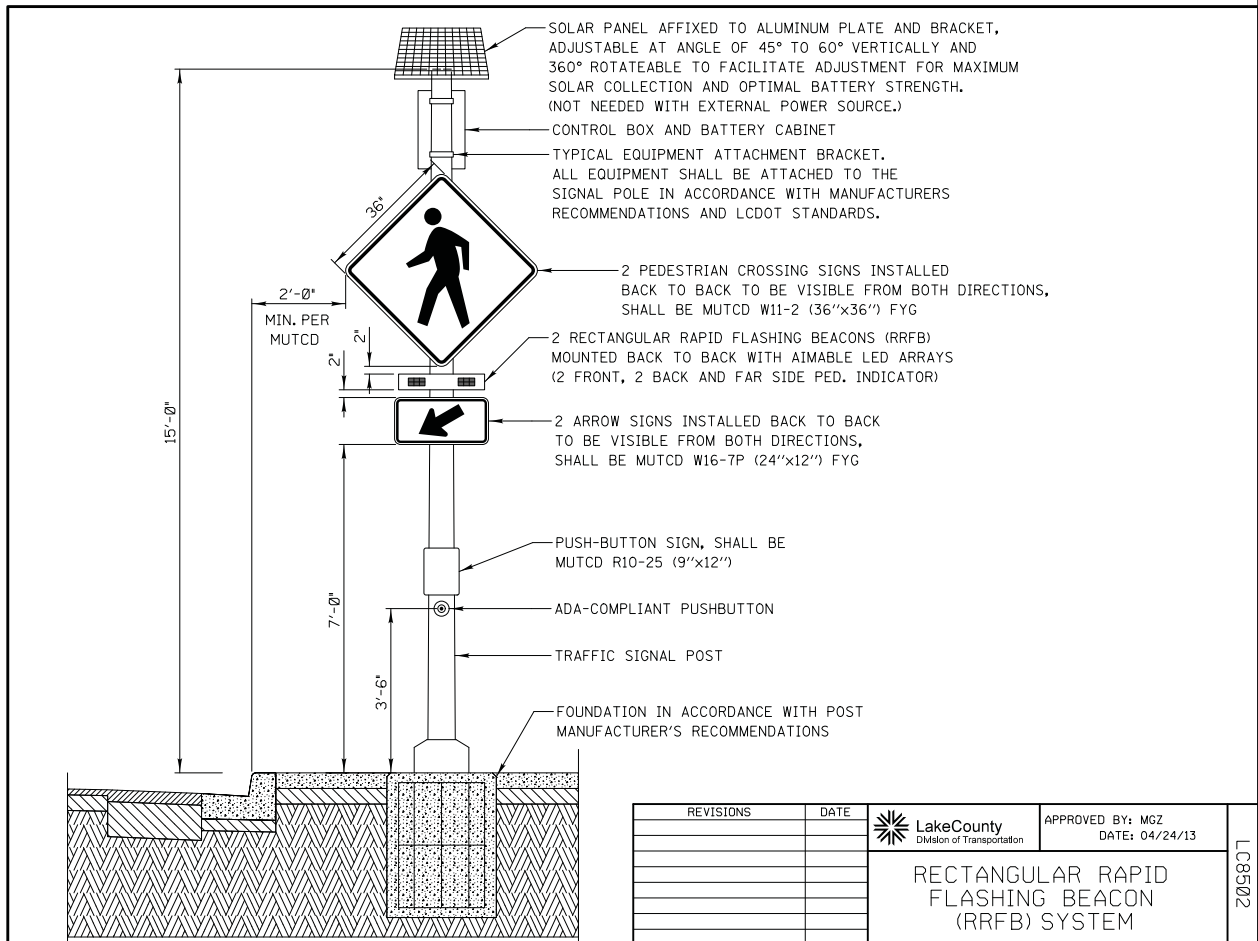


DATE	
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FINAL SURVEY	
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ORIGINAL SURVEY	
NO. 1	
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NO. 49	
NO. 50	

**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	2



REVISIONS	DATE		APPROVED BY: MGZ
			DATE: 04/24/13
		<b>RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM</b>	TOTAL SHEETS: 566 SHEET NO.: 366
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS
1228	99-00260-01-WR	LAKE	566
			SHEET NO. 366
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

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CHECKED - JJE	REVISED -
DATE - 11/7/2018	REVISED -

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



**FLASHING BEACON INSTALLATION PLAN**  
**14TH STREET AT STA. 67+70**  
 SCALE: 1" = 20'  
 SHEET NO. 1 OF 1 SHEETS STA. TO STA.

LC8502

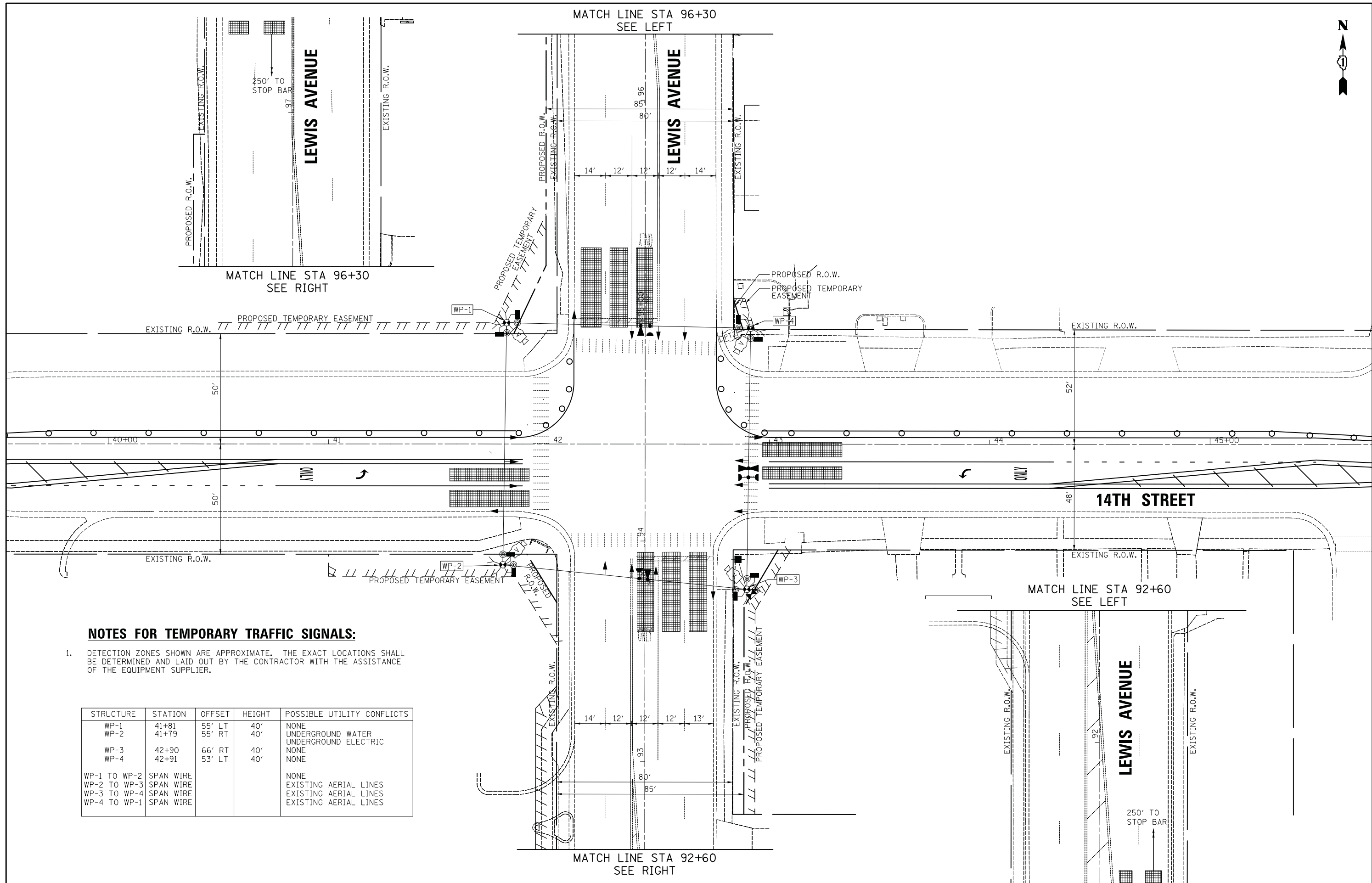






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**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

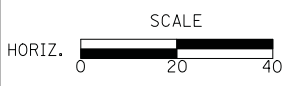
1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



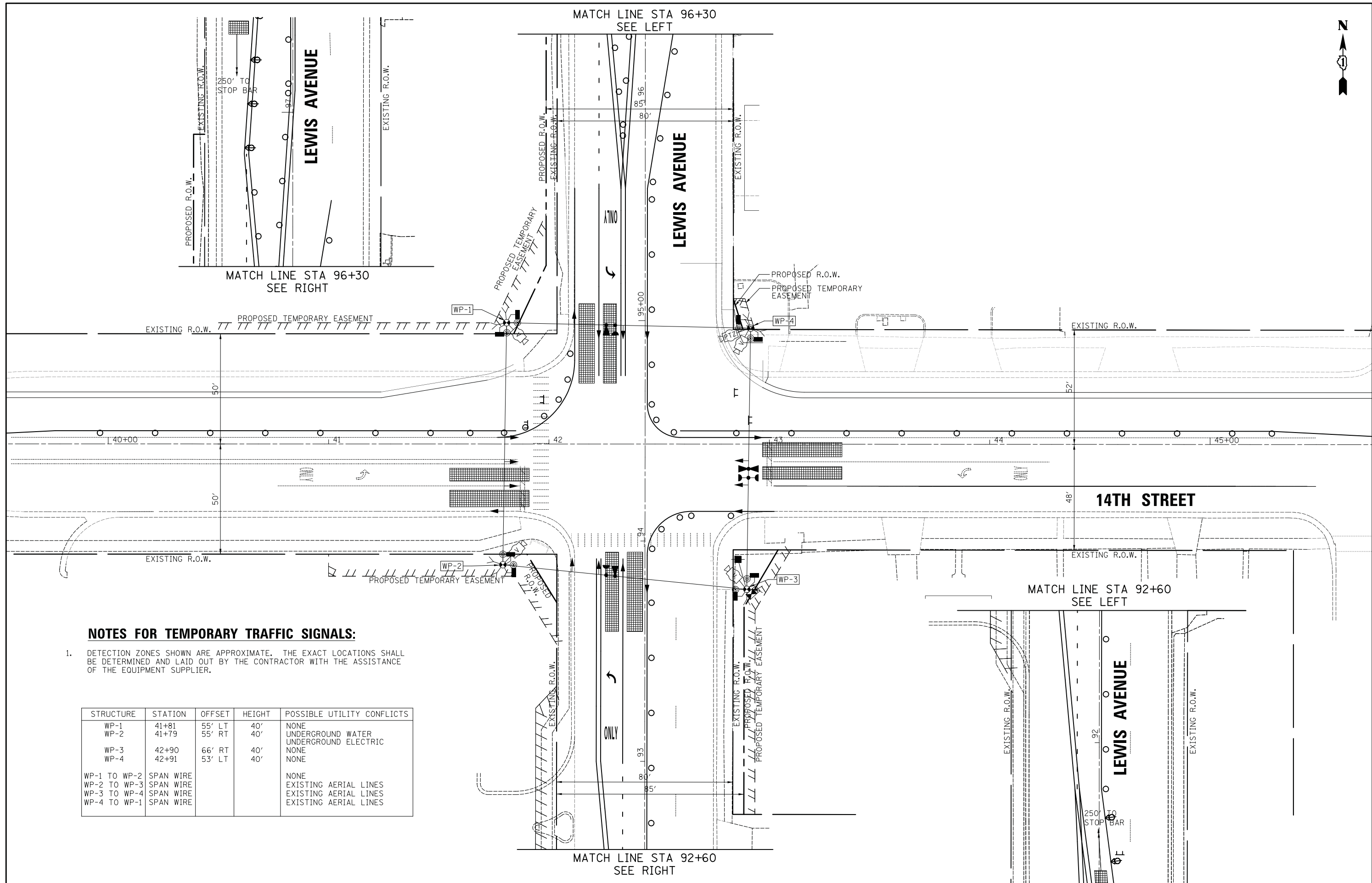
**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1  
 14TH STREET AT LEWIS AVENUE**  
 SCALE: 1" = 20'  
 SHEET NO. 2 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	368
<b>CONTRACT NO. 61F33</b>				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



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**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

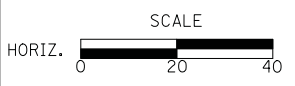
1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
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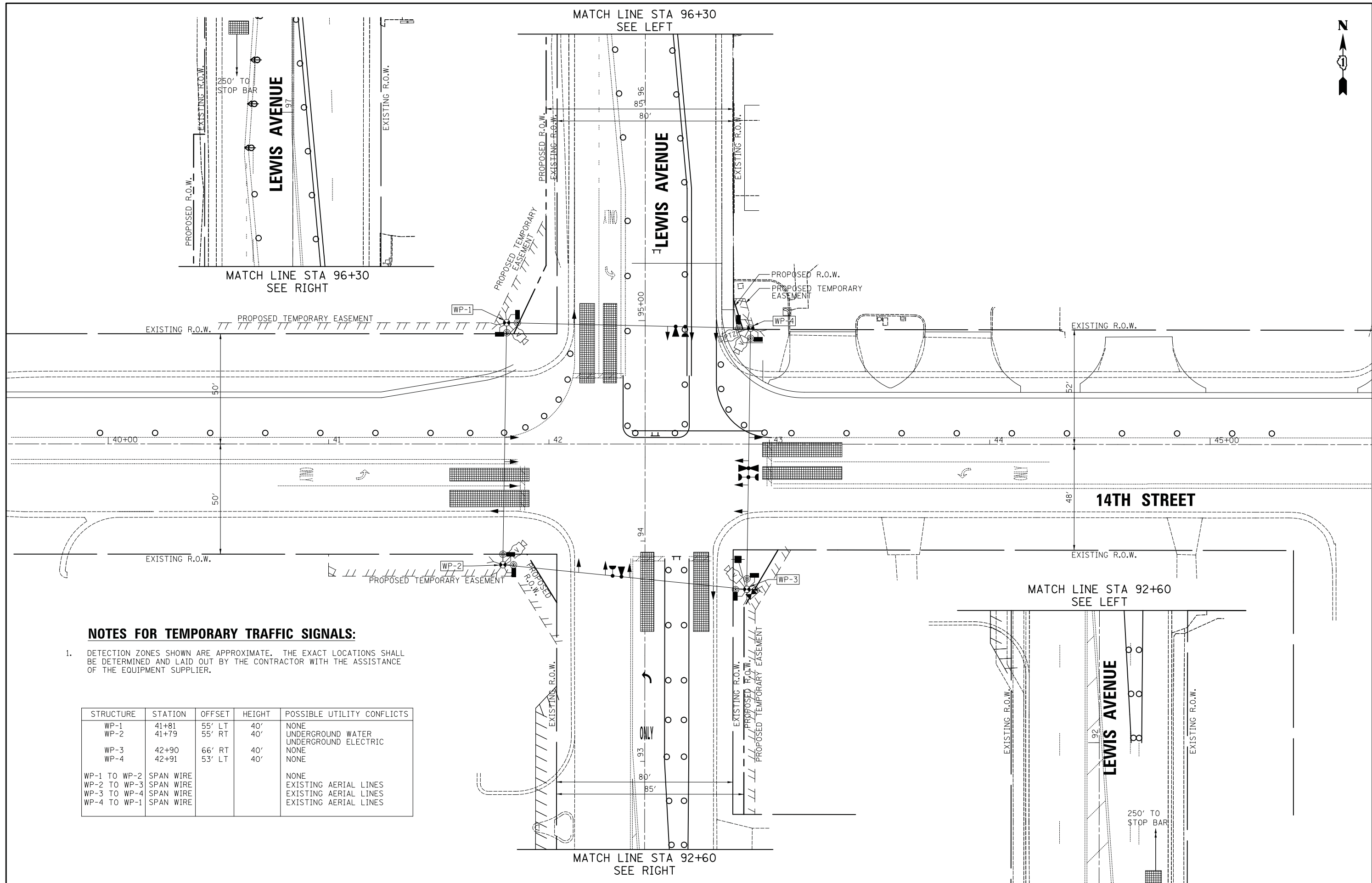
**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A  
 14TH STREET AT LEWIS AVENUE**  
 SCALE: 1" = 20'  
 SHEET NO. 3 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	369
<b>CONTRACT NO. 61F33</b>				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



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NOTE BOOK	
AREAS CHECKED	
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**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B  
 14TH STREET AT LEWIS AVENUE**  
 SCALE: 1" = 20'  
 SHEET NO. 4 OF 11 SHEETS STA. TO STA.

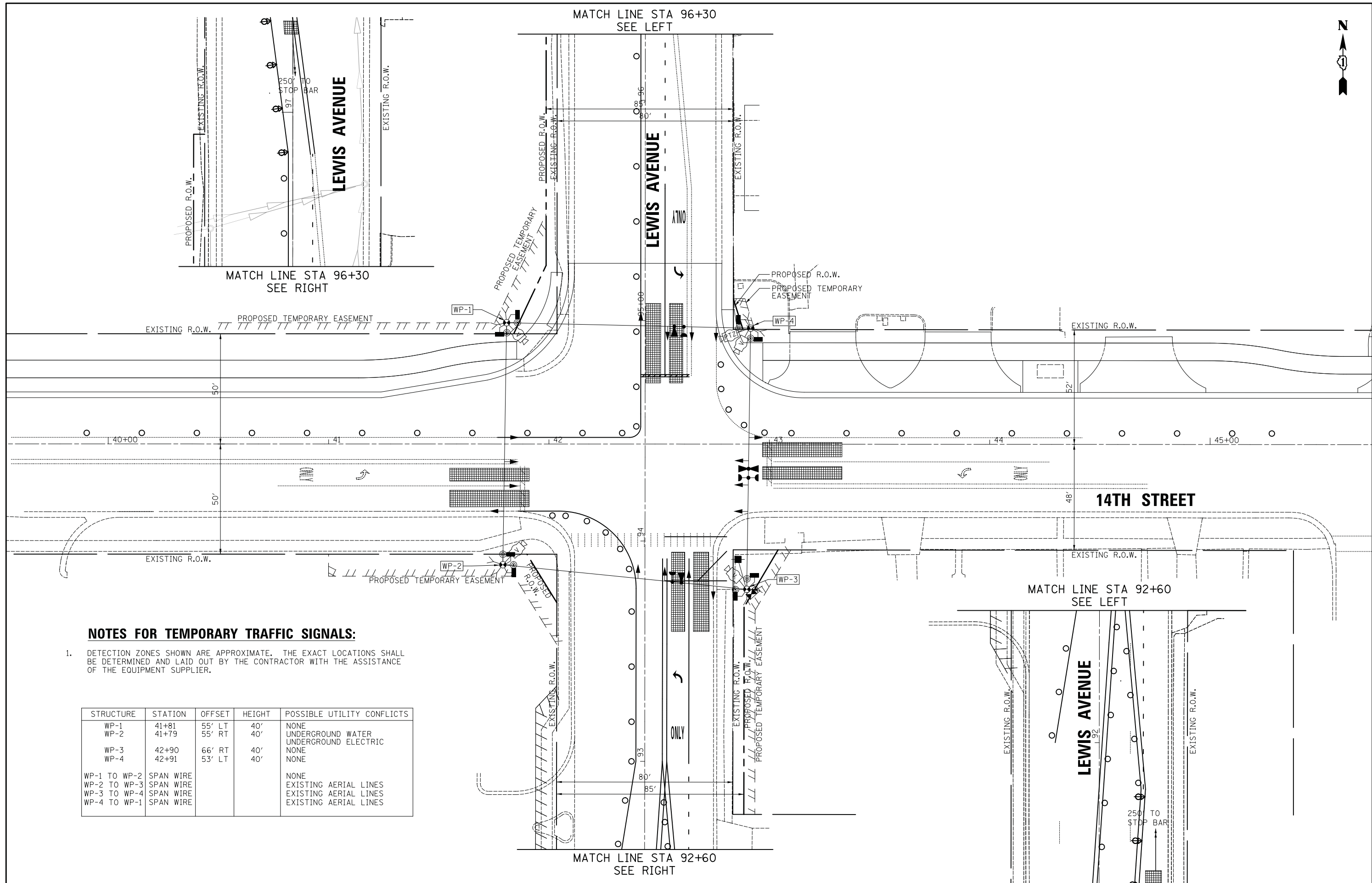
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	370
<b>CONTRACT NO. 61F33</b>				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				





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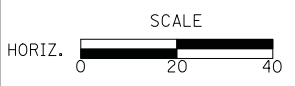
1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1C  
 14TH STREET AT LEWIS AVENUE**  
 SCALE: 1" = 20'  
 SHEET NO. 5 OF 11 SHEETS  
 STA. TO STA.

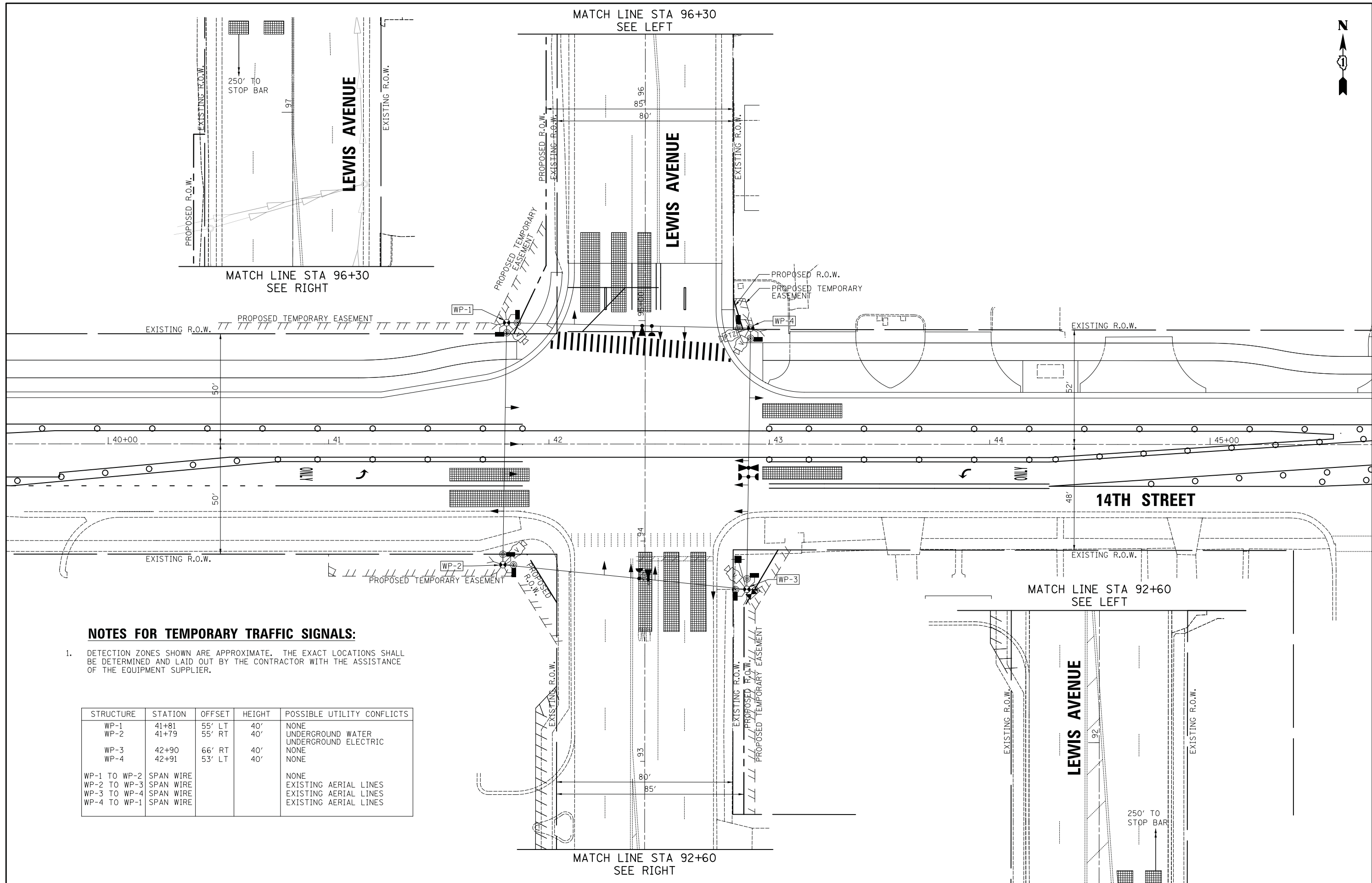
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	371
<b>CONTRACT NO. 61F33</b>				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				





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NOTE BOOK	
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**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

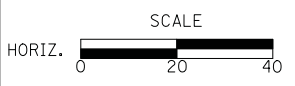
1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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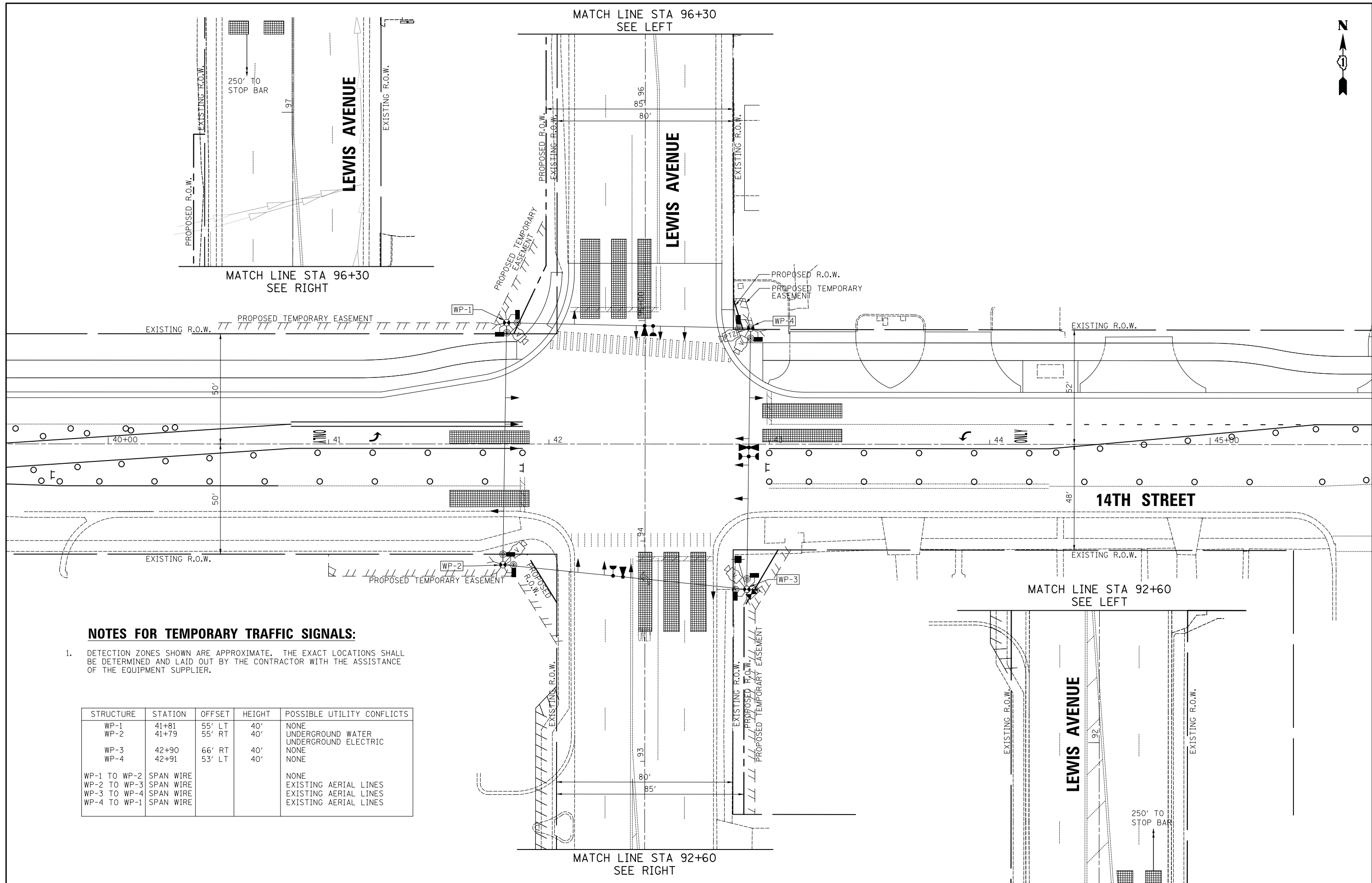
**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1D  
 14TH STREET AT LEWIS AVENUE**  
 SCALE: 1" = 20' SHEET NO. 6 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	372
<b>CONTRACT NO. 61F33</b>				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



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**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

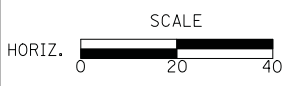
1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
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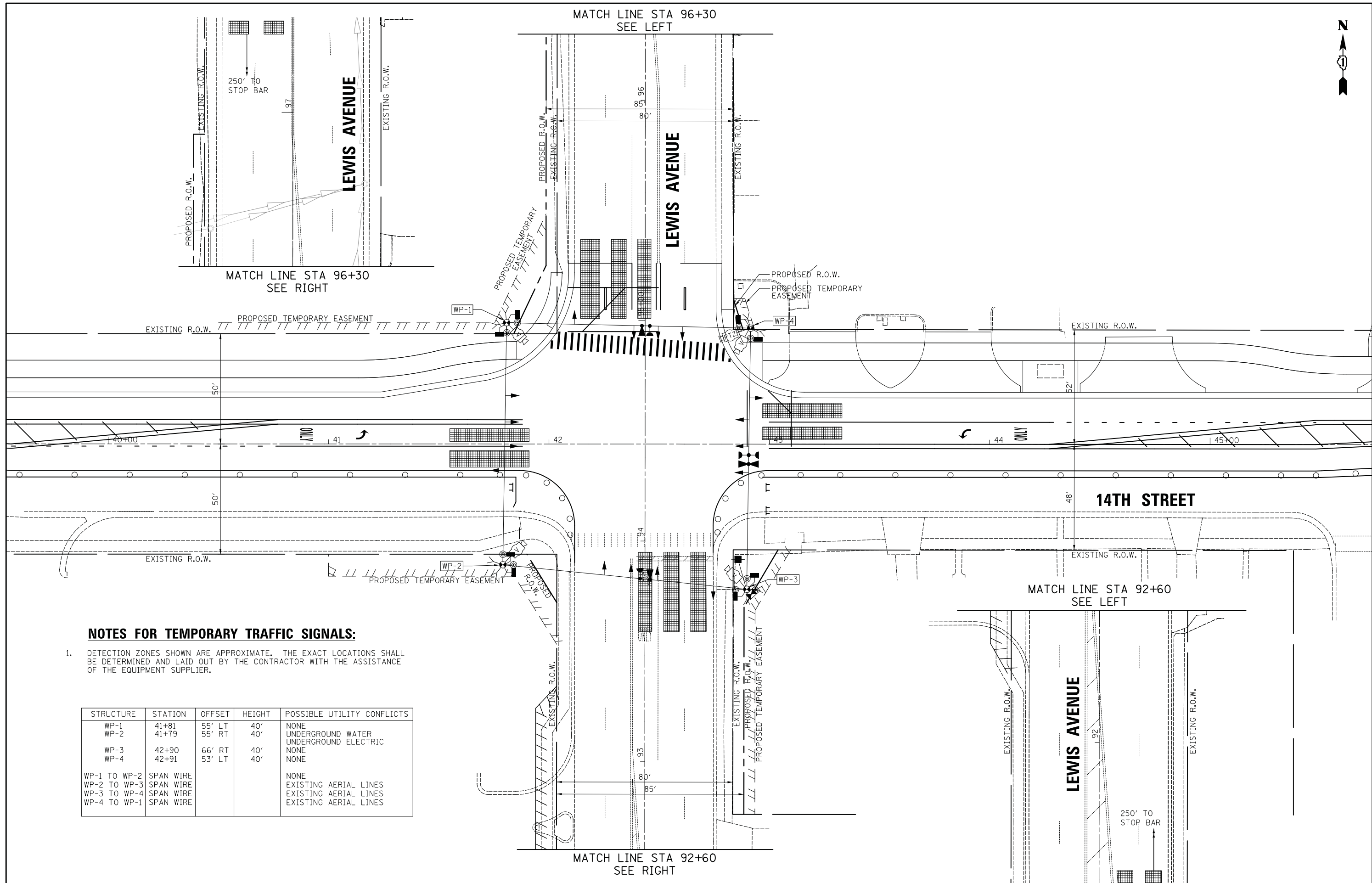
**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1E  
 14TH STREET AT LEWIS AVENUE**  
 SCALE: 1" = 20'  
 SHEET NO. 7 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	373
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
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**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

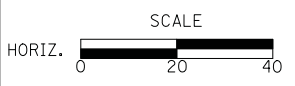
1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2  
 14TH STREET AT LEWIS AVENUE**  
 SCALE: 1" = 20'  
 SHEET NO. 8 OF 11 SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	374
<b>CONTRACT NO. 61F33</b>				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

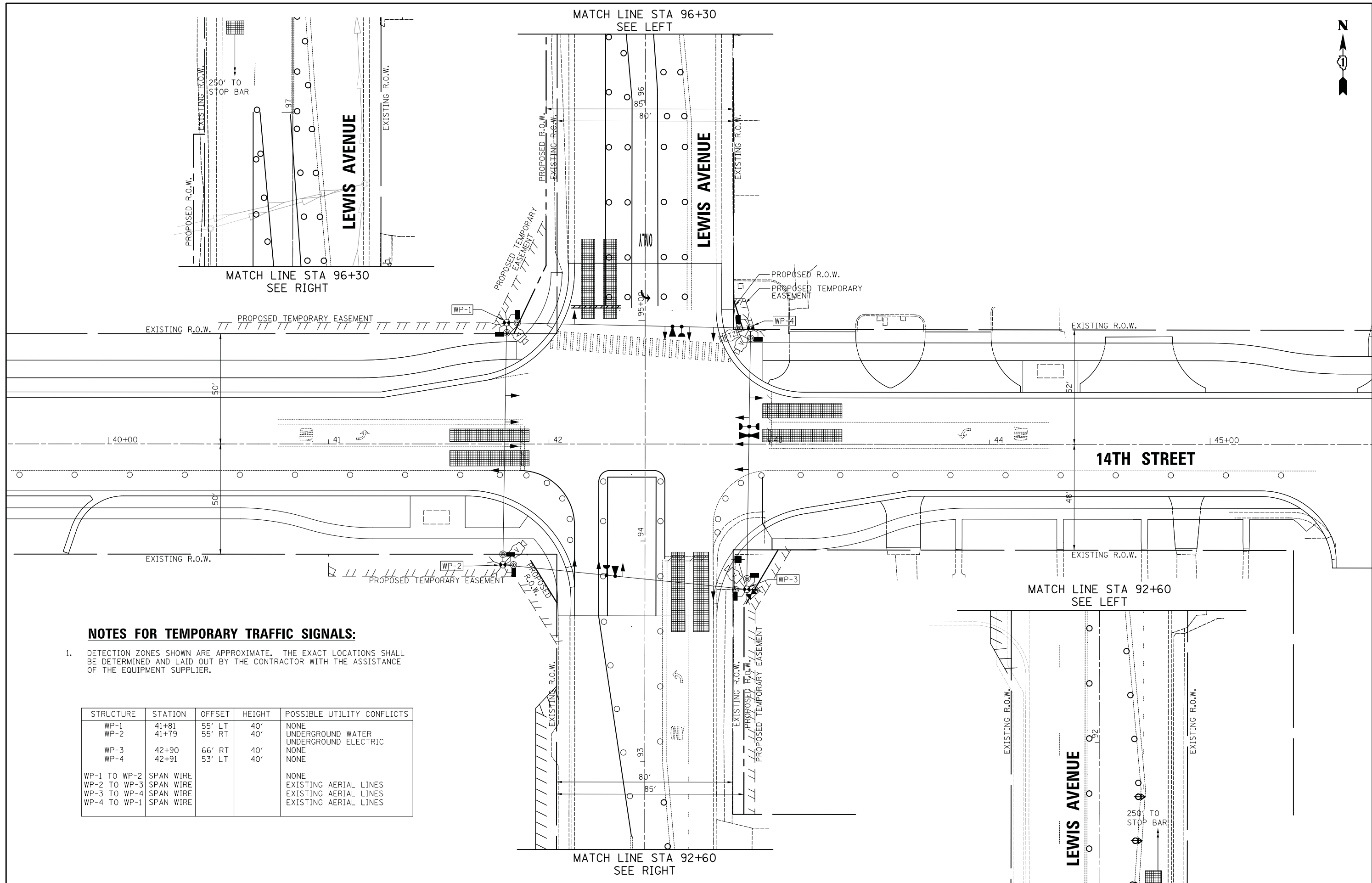






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**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

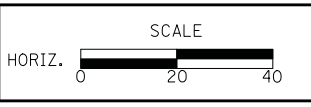
1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B  
14TH STREET AT LEWIS AVENUE**

SCALE: 1" = 20' SHEET NO. 10 OF 11 SHEETS STA. TO STA.

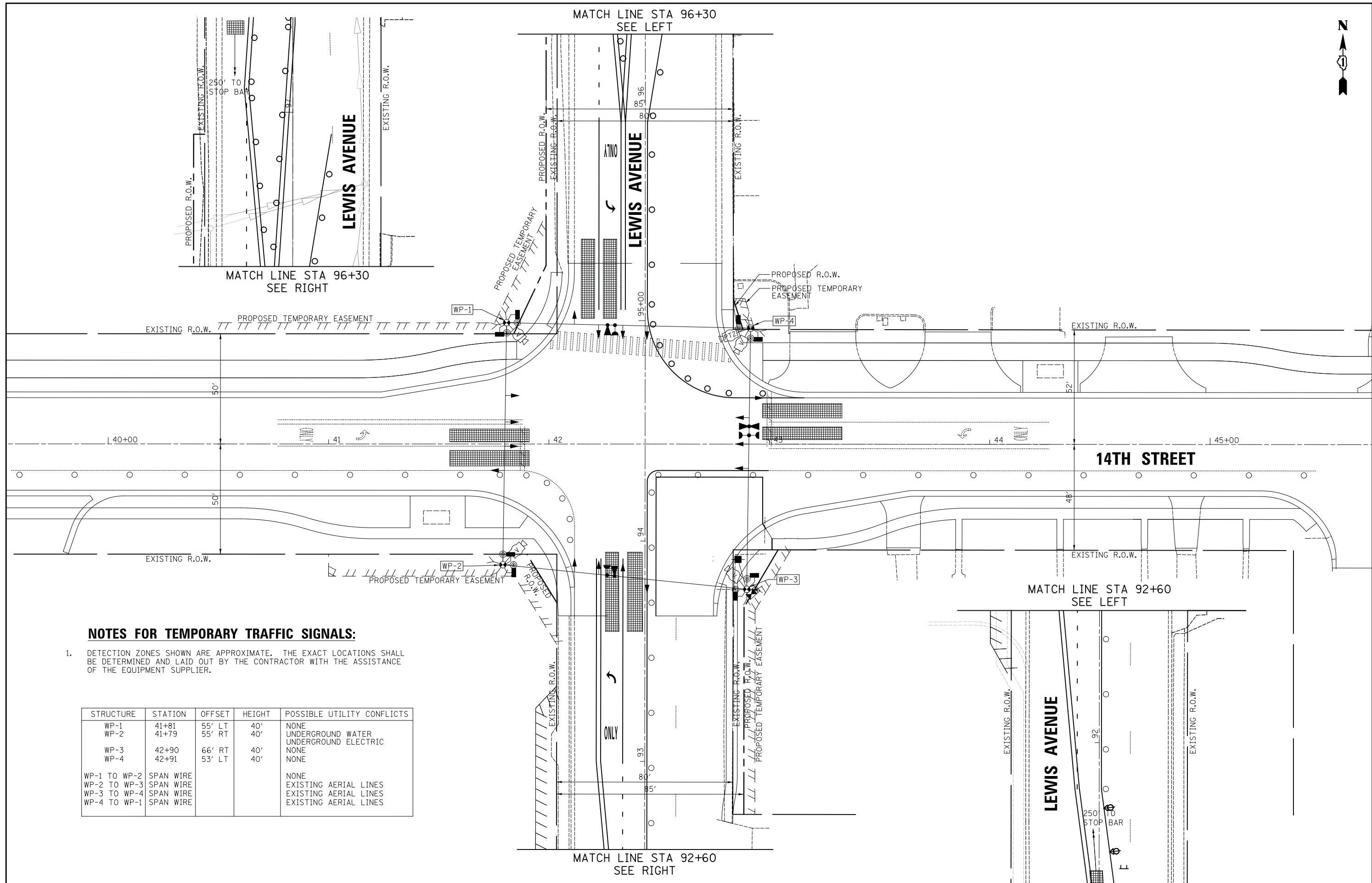
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	376
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





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AREAS CHECKED	
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**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	41+81	55' LT	40'	NONE
WP-2	41+79	55' RT	40'	UNDERGROUND WATER UNDERGROUND ELECTRIC
WP-3	42+90	66' RT	40'	NONE
WP-4	42+91	53' LT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			EXISTING AERIAL LINES

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Tel: 630.773.3900 Fax: 630.773.3975  
www.civiltechinc.com

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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2C  
14TH STREET AT LEWIS AVENUE**

SCALE: 1" = 20'

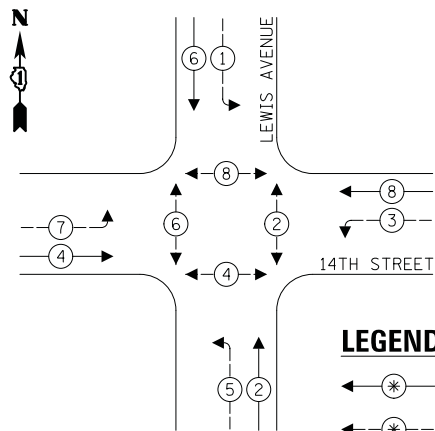
SHEET NO. 11 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	377
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



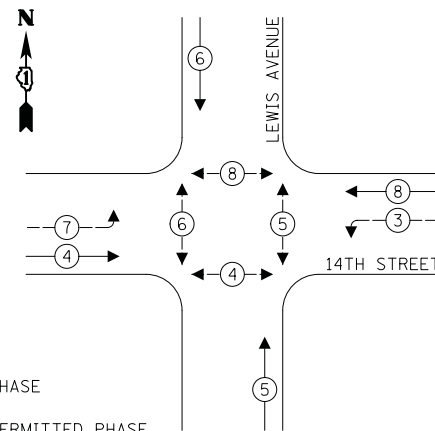
**PROPOSED CONTROLLER SEQUENCE**

ALL OTHER STAGES



**PROPOSED CONTROLLER SEQUENCE**

STAGES 1B AND 2B

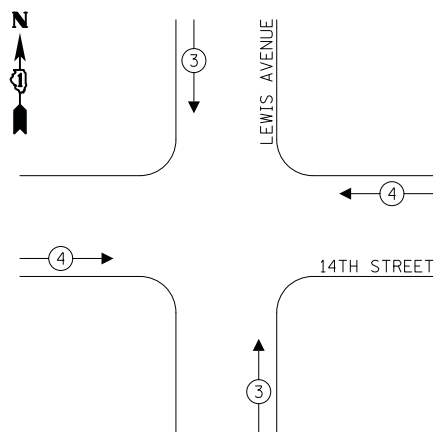


**LEGEND:**

- ← ⊛ → PROTECTED PHASE
- ← ⊛ - - → PROTECTED/PERMITTED PHASE
- ← ⊛ → PEDESTRIAN PHASE
- ⊛ OL OVERLAP

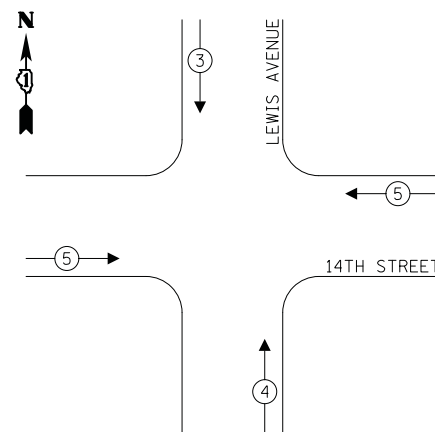
**PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**

ALL OTHER STAGES



**PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**

STAGES 1B AND 2B



**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

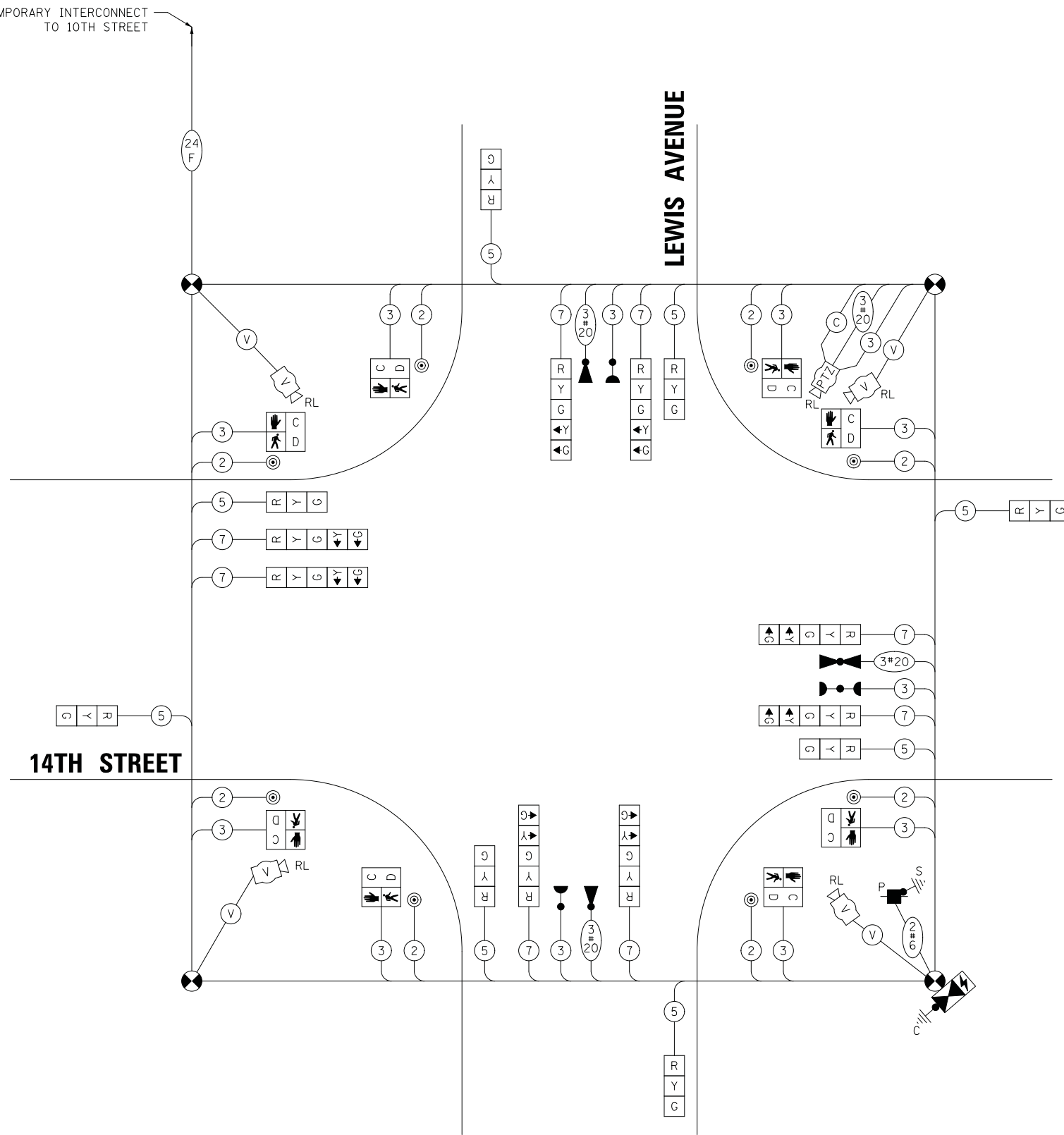
TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				593.8

ENERGY COSTS TO:

CITY OF WAUKEGAN  
100 N. MARTIN LUTHER KING JR. AVENUE  
WAUKEGAN, IL 60085

ENERGY SUPPLY: CONTACT: VALERIE WESTBROOK  
PHONE: (847) 816-5489  
COMPANY: COMED  
ACCOUNT NUMBER: 3955087030

TEMPORARY INTERCONNECT  
TO 10TH STREET



**CABLE PLAN**  
(NOT TO SCALE)

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		FINAL SURVEY	NOTE BOOK		

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		ORIGINAL SURVEY	NOTE BOOK		



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN AND SEQUENCES  
14TH STREET AT LEWIS AVENUE**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	378
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

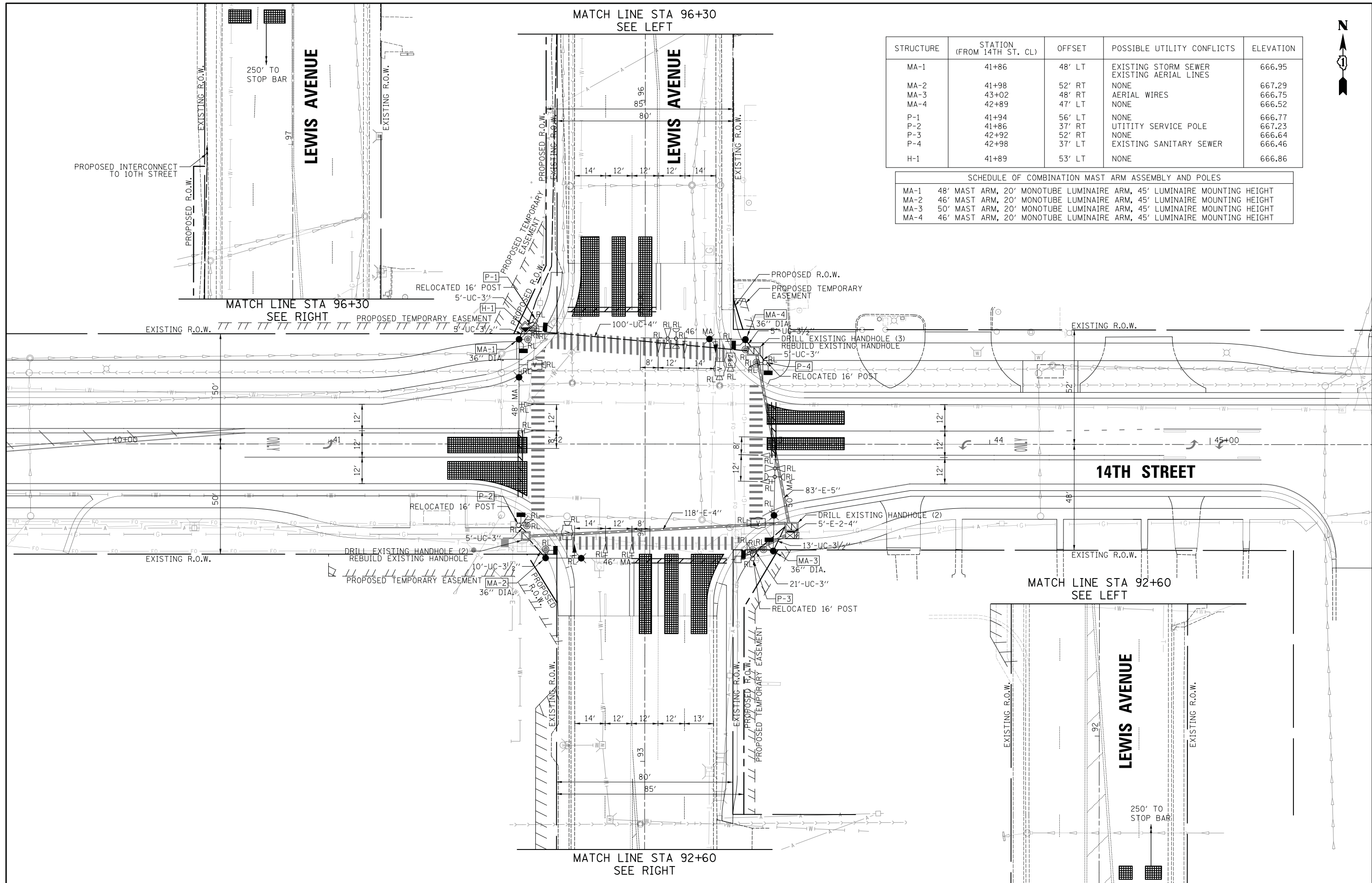


STRUCTURE	STATION (FROM 14TH ST. CL)	OFFSET	POSSIBLE UTILITY CONFLICTS	ELEVATION
MA-1	41+86	48' LT	EXISTING STORM SEWER EXISTING AERIAL LINES	666.95
MA-2	41+98	52' RT	NONE	667.29
MA-3	43+02	48' RT	AERIAL WIRES	666.75
MA-4	42+89	47' LT	NONE	666.52
P-1	41+94	56' LT	NONE	666.77
P-2	41+86	37' RT	UTILITY SERVICE POLE	667.23
P-3	42+92	52' RT	NONE	666.64
P-4	42+98	37' LT	EXISTING SANITARY SEWER	666.46
H-1	41+89	53' LT	NONE	666.86

SCHEDULE OF COMBINATION MAST ARM ASSEMBLY AND POLES			
MA-1	48' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT		
MA-2	46' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT		
MA-3	50' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT		
MA-4	46' MAST ARM, 20' MONOTUBE LUMINAIRE ARM, 45' LUMINAIRE MOUNTING HEIGHT		

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
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NOTE BOOK	AREAS CHECKED
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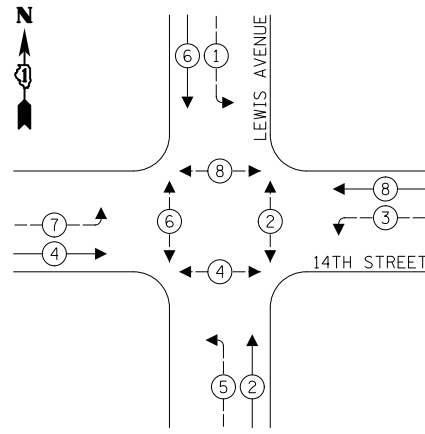
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**TRAFFIC SIGNAL MODIFICATION PLAN**  
**14TH STREET AT LEWIS AVENUE**  
 SCALE: 1" = 20'  
 SHEET NO. 1 OF 1 SHEETS  
 STA. TO STA.

F.A.U. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	379
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

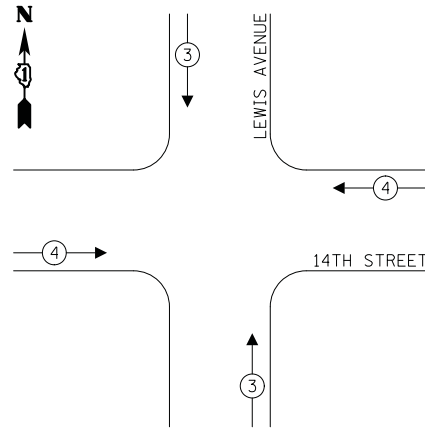
**EXISTING AND PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ → PEDESTRIAN PHASE
- ← ⊙ ← OL OVERLAP

**EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE**



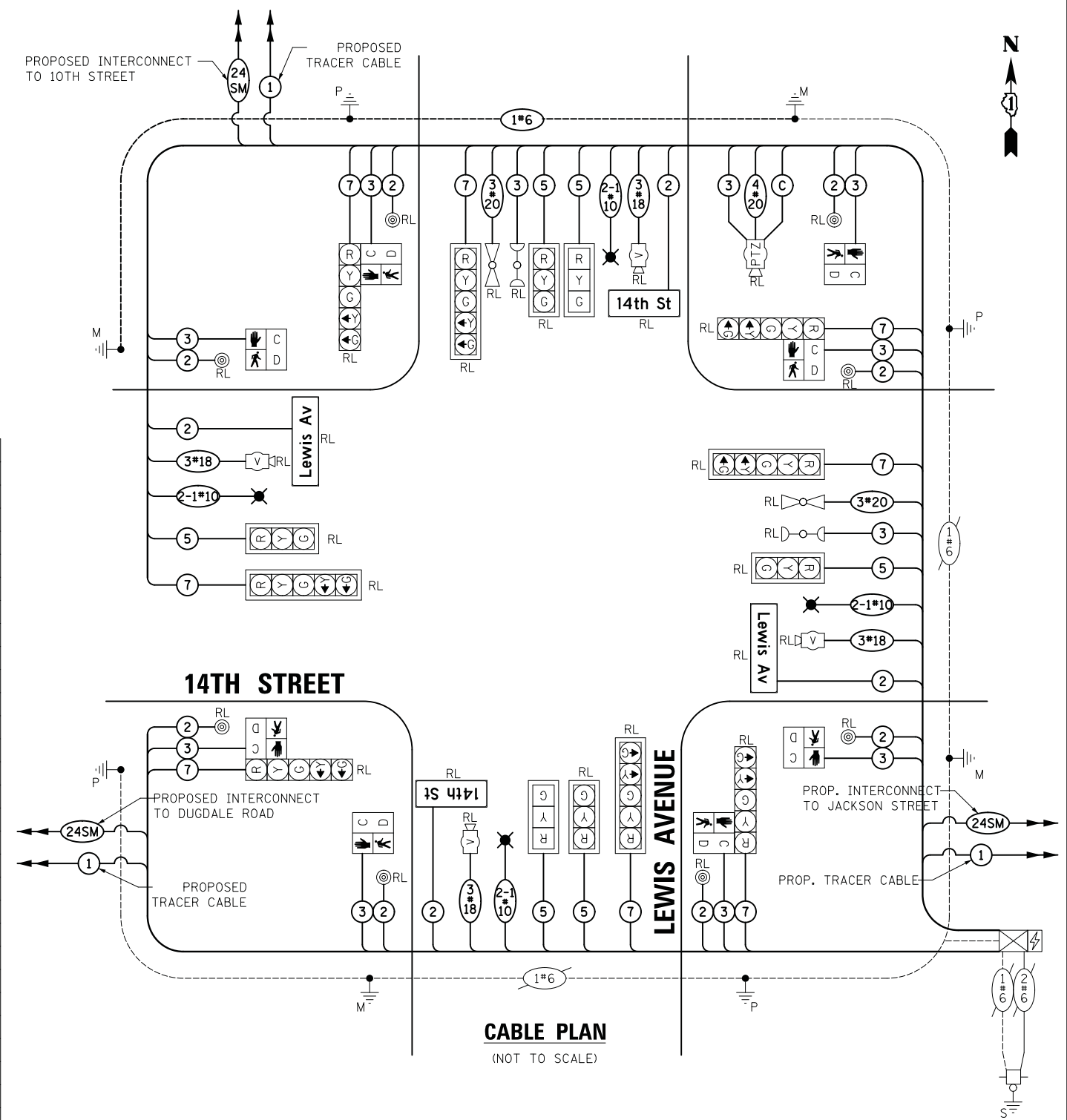
**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	36
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	33
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	100
HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1652
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1861
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1919
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1098
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1425
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 18 3C	FOOT	826
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	232
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
DRILL EXISTING HANDHOLE	EACH	7
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	10
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
RELOCATE EXISTING SIGNAL HEAD	EACH	12
RELOCATE EXISTING ILLUMINATED SIGN	EACH	4
RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	8
RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	4
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4642
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REBUILD EXISTING HANDHOLE	EACH	2
REMOVE EXISTING HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	285
RELOCATE EXISTING SWITCH	EACH	2
RELOCATE EXISTING ENCODER	EACH	2
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	194
ELECTRIC CABLE IN CONDUIT, VIDEO NO. 20 4C	FOOT	194
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT. (SPECIAL)	EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 50 FT. (SPECIAL)	EACH	1
RELOCATE EXISTING VIDEO DETECTION SYSTEM (COMPLETE INTERSECTION)	EACH	2
RELOCATE EXISTING REMOTE-CONTROLLED VIDEO SYSTEM	EACH	2
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
LUMINAIRE INSTALLATION, TYPE 4	EACH	4

**TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	17	50	119.0
(YELLOW)	14	25	5	17.5
(GREEN)	14	15	45	94.5
ARROW	16	12	10	19.2
PED. SIGNAL	8	25	100	200.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	64	50	128.0
LUMINAIRE	4	250	50	500.0
<b>TOTAL =</b>				<b>1353.2</b>

ENERGY COSTS TO:  
 CITY OF WAUKEGAN  
 100 N. MARTIN LUTHER KING JR. AVENUE  
 WAUKEGAN, IL 60085  
 ENERGY SUPPLY: CONTACT: VALERIE WESTBROOK  
 PHONE: (847) 816-5489  
 COMPANY: COMED  
 ACCOUNT NUMBER: 3955087030



**CABLE PLAN**  
(NOT TO SCALE)

DATE	
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AREAS CHECKED	
NO.	

DATE	
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN AND SEQUENCES AND SCHEDULE OF QUANTITIES**  
 14TH STREET AT LEWIS AVENUE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	380
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



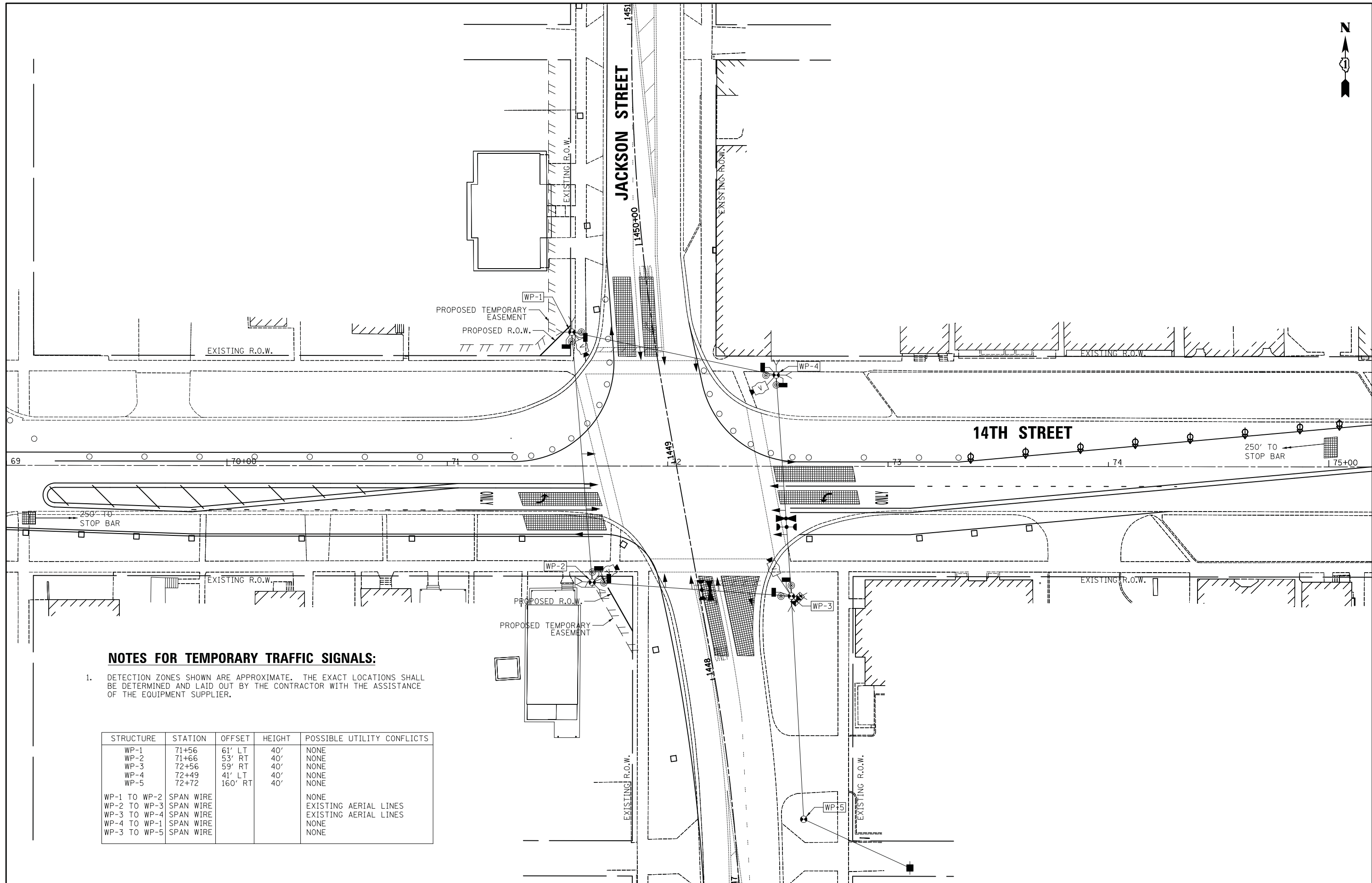






DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE



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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1  
14TH STREET AT JACKSON STREET**

SCALE: 1" = 20'

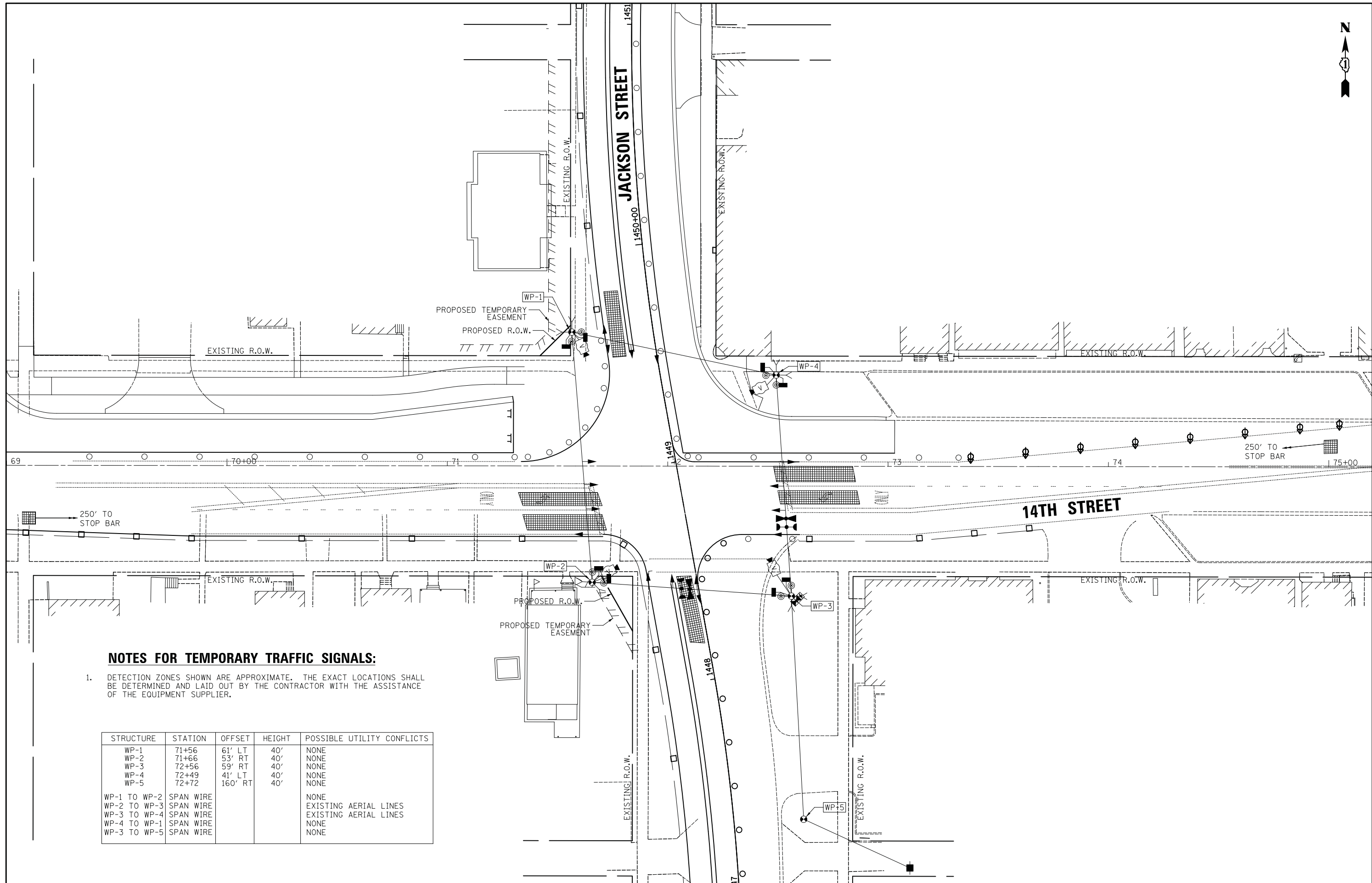
SHEET NO. 2 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	382
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE



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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A  
14TH STREET AT JACKSON STREET**

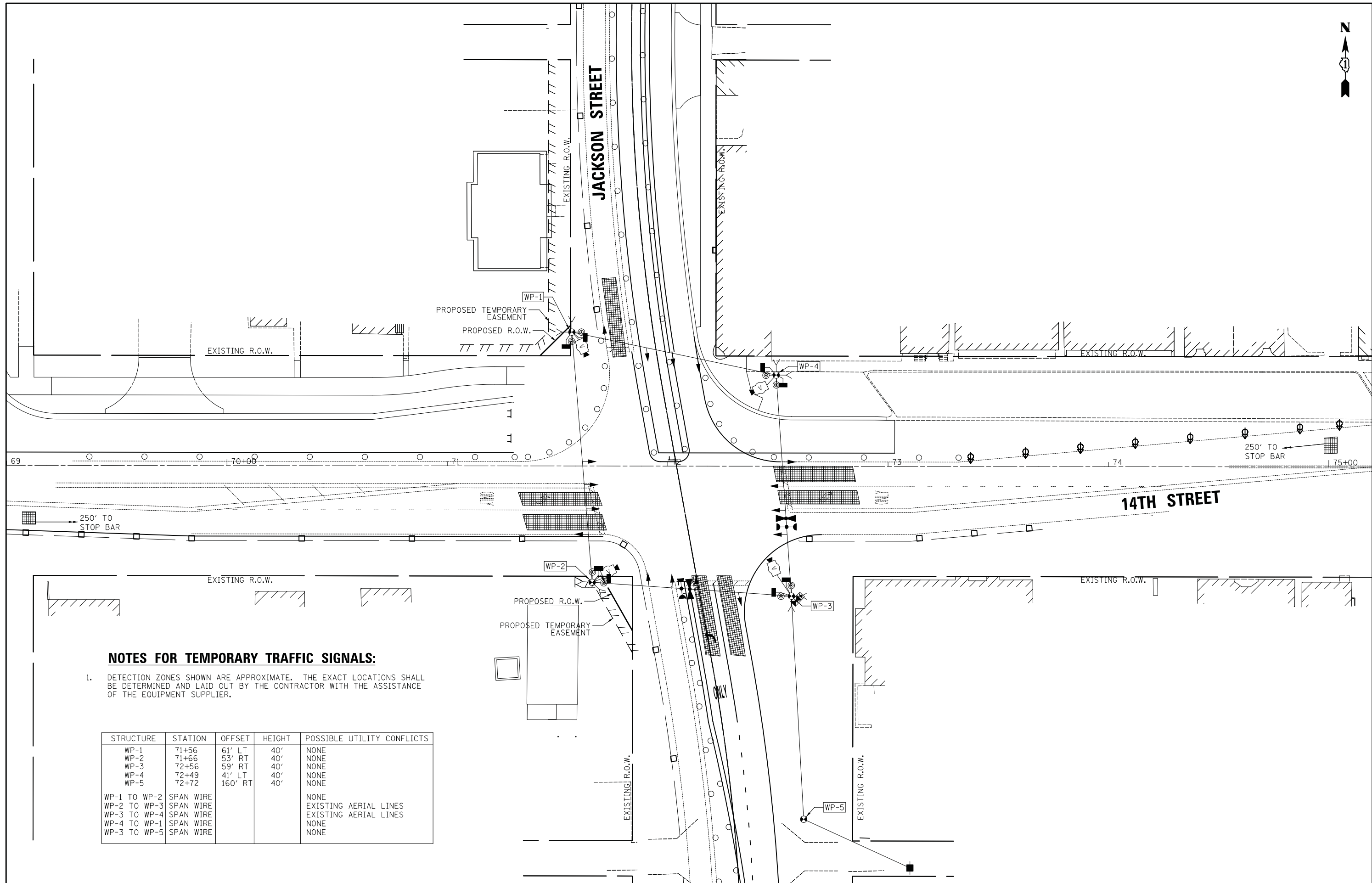
SCALE: 1" = 20' SHEET NO. 3 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	383
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE



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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B  
14TH STREET AT JACKSON STREET**

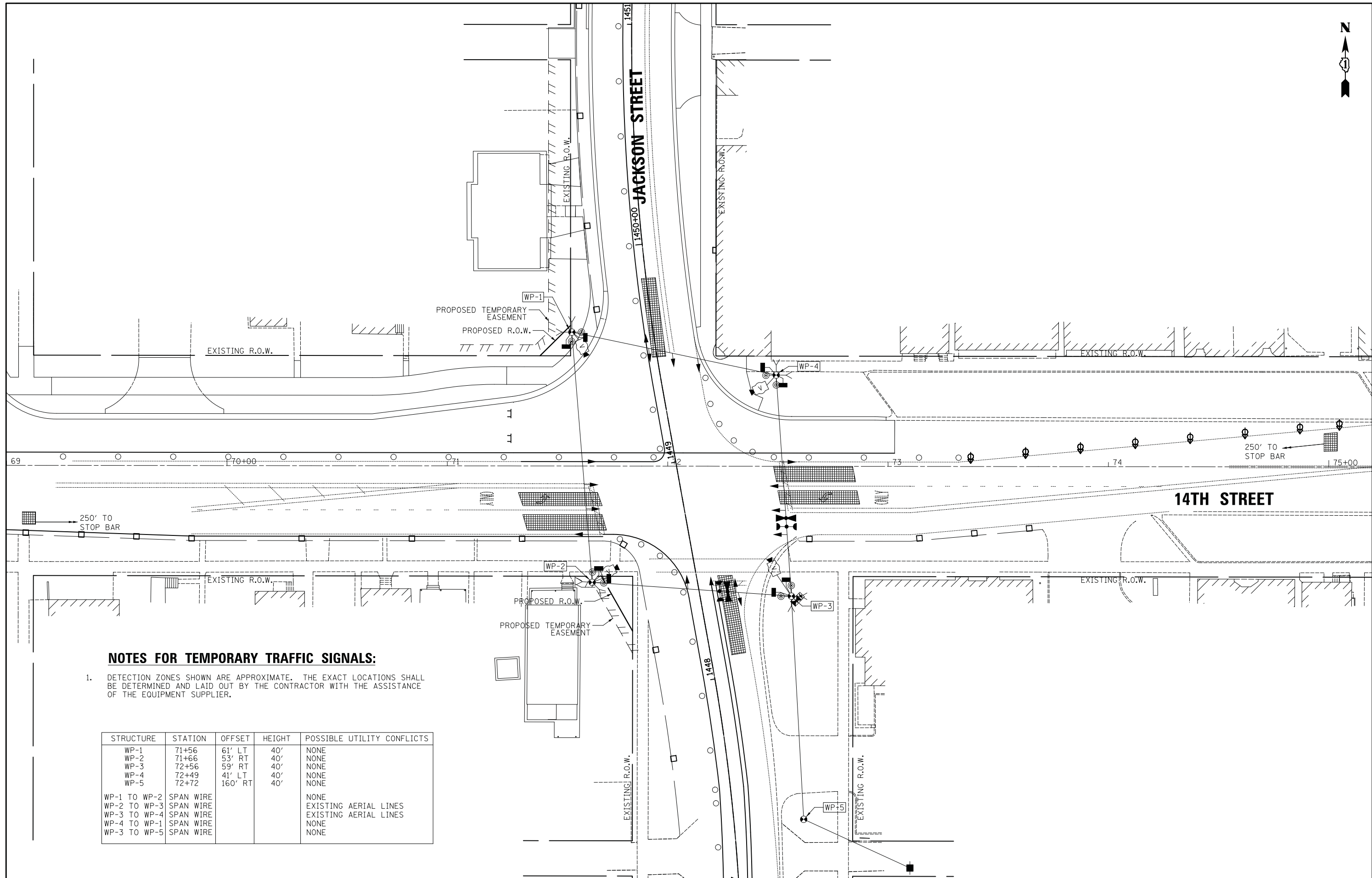
SCALE: 1" = 20' SHEET NO. 4 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	384
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE

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CHECKED - JJE	REVISED -
DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1C  
14TH STREET AT JACKSON STREET**

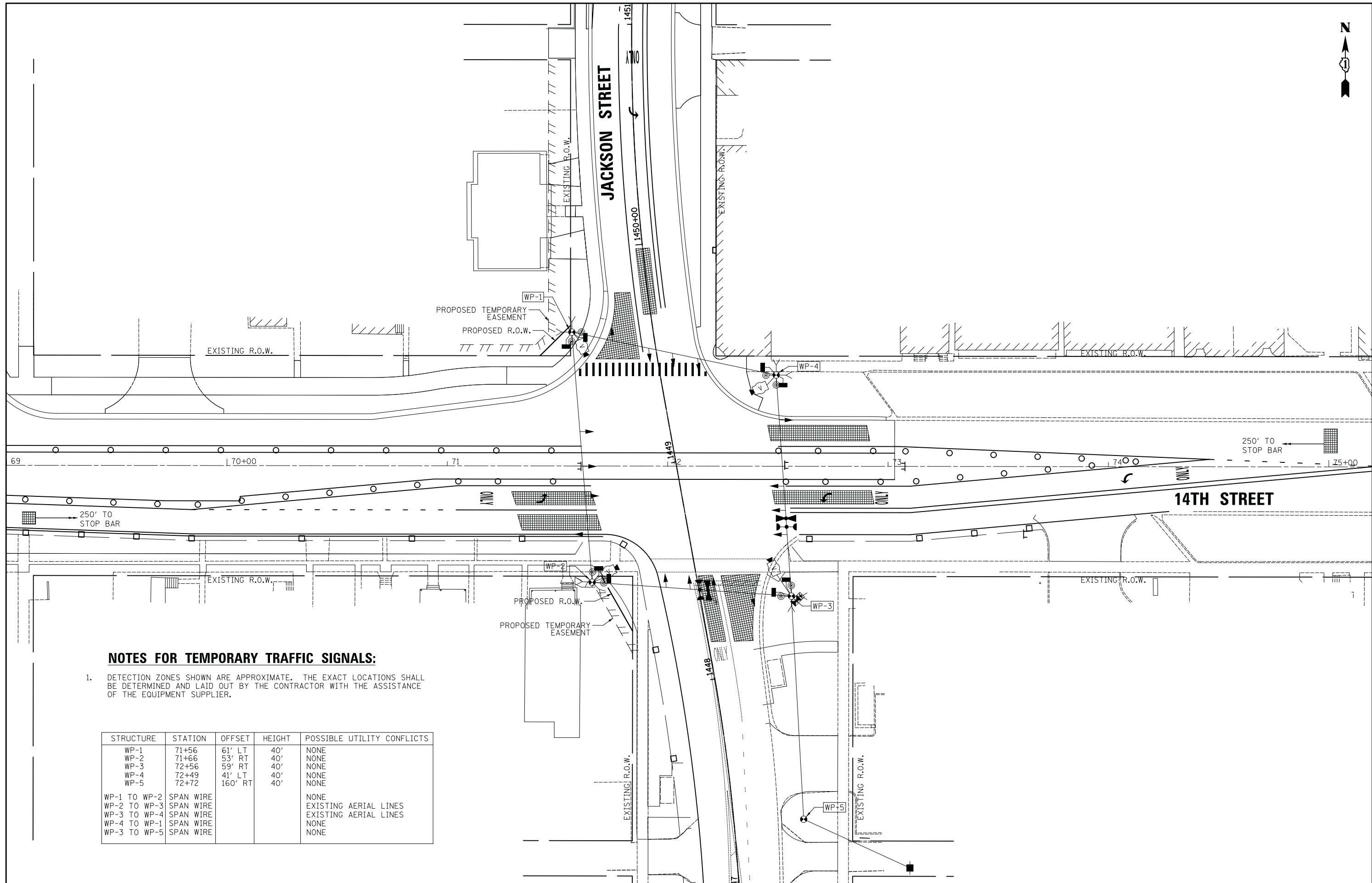
SCALE: 1" = 20'  
SHEET NO. 5 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	385
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE

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 CHECKED - JJE  
 DATE - 11/7/2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1D  
 14TH STREET AT JACKSON STREET**

SCALE: 1" = 20'  
 SHEET NO. 6 OF 11 SHEETS STA. TO STA.

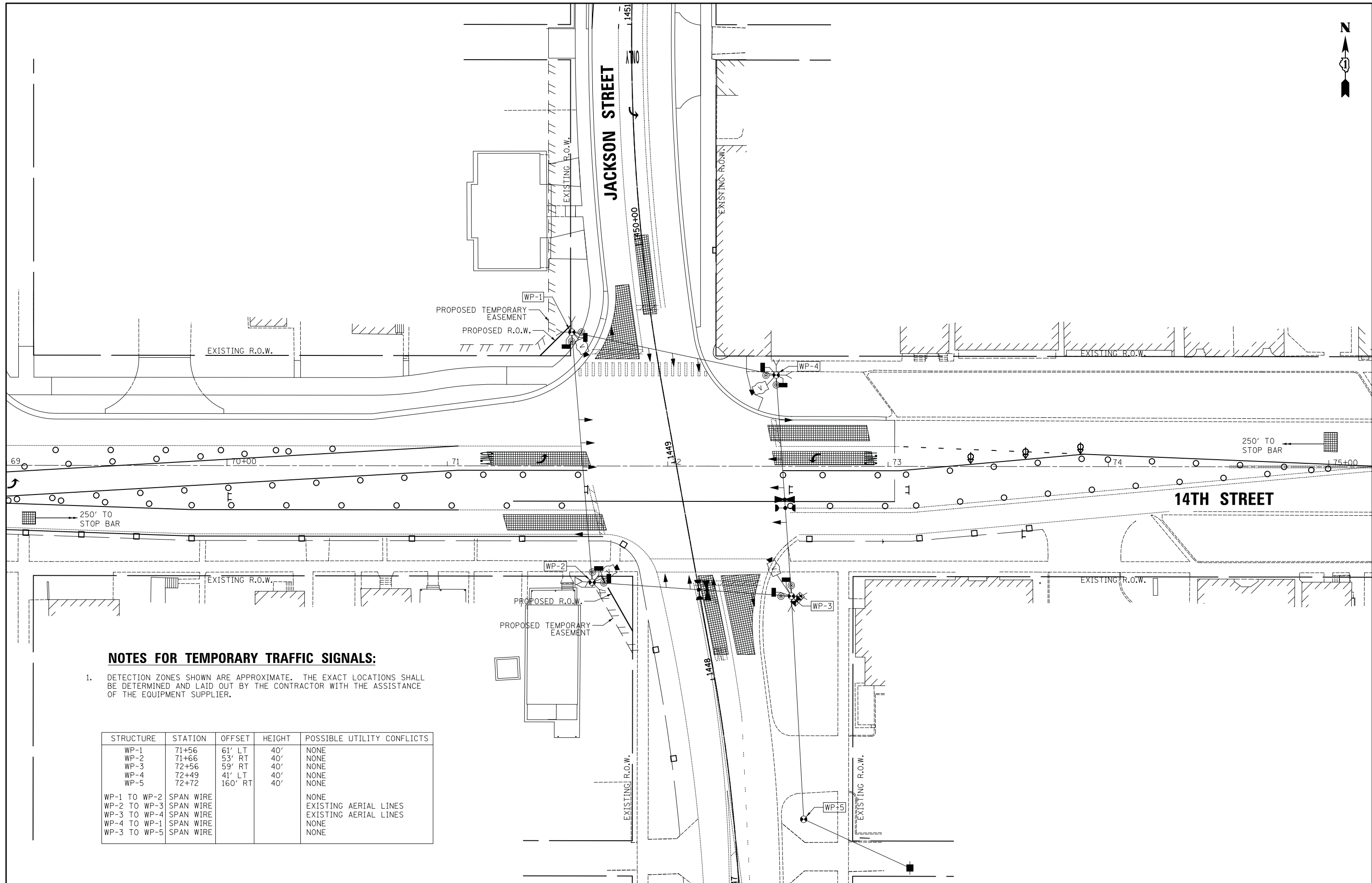
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	386
<b>CONTRACT NO. 61F33</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





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		NO.			

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE



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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1E  
14TH STREET AT JACKSON STREET**

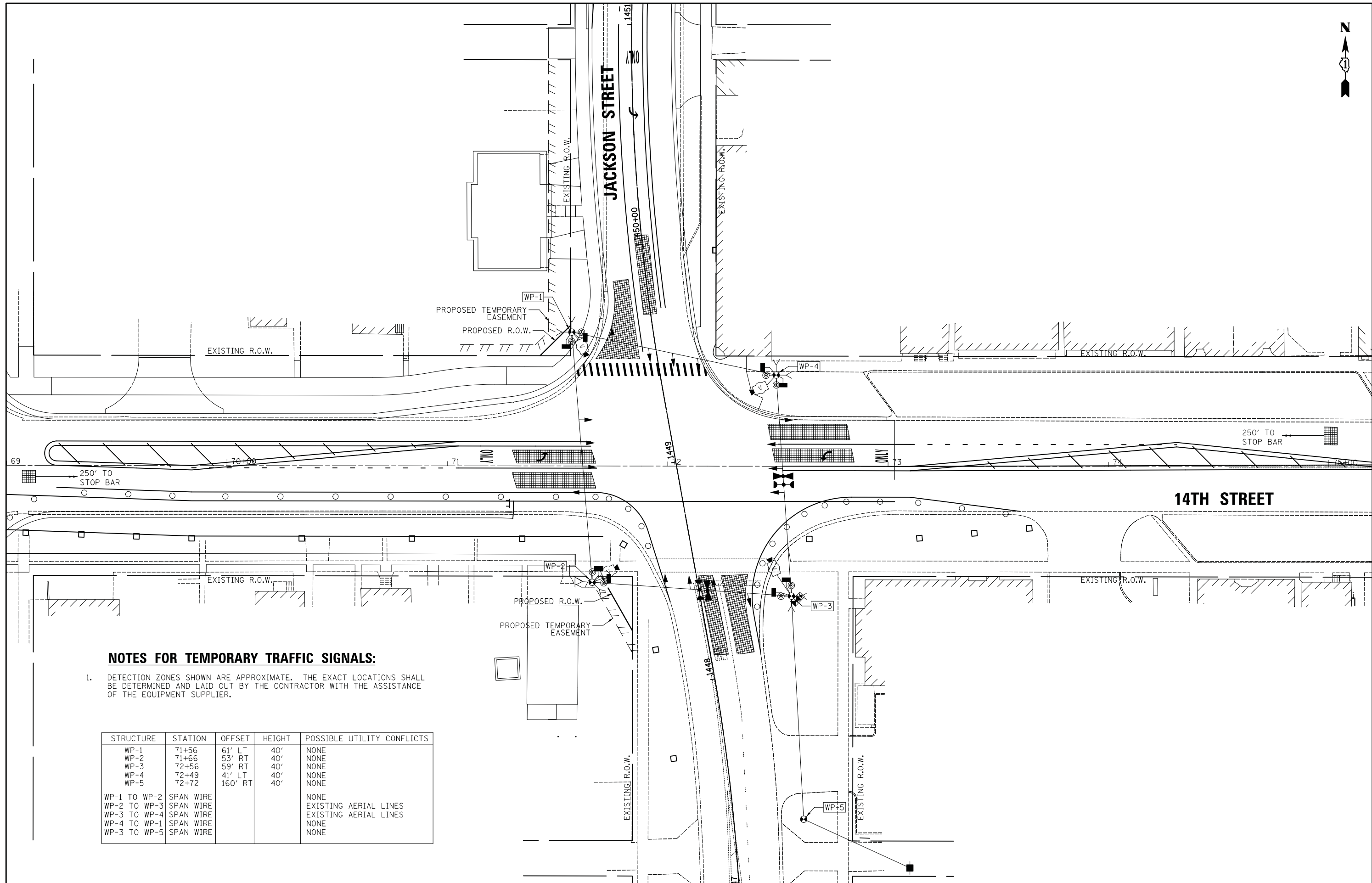
SCALE: 1" = 20' SHEET NO. 7 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	387
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2  
14TH STREET AT JACKSON STREET**

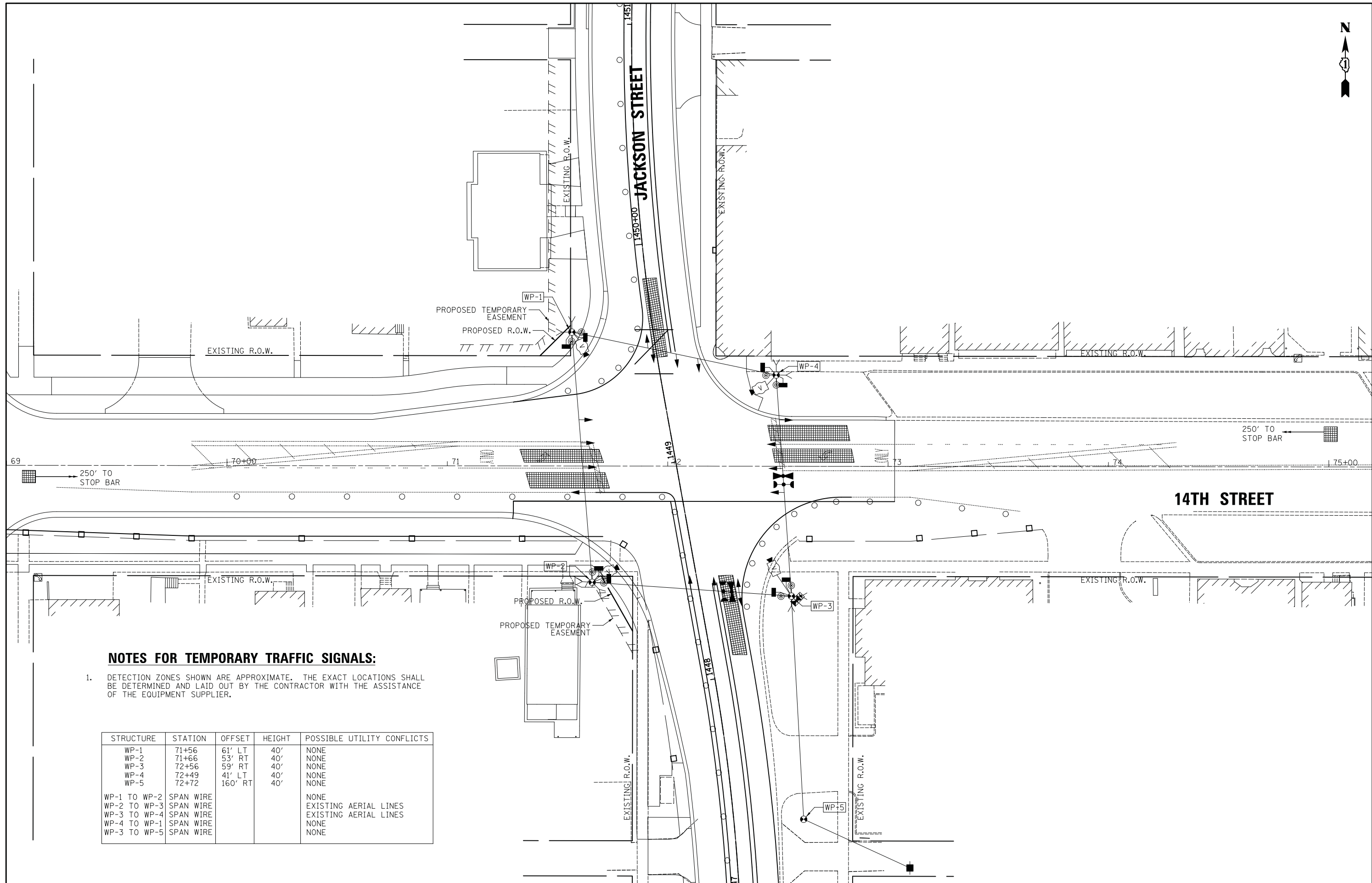
SCALE: 1" = 20' SHEET NO. 8 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	388
<b>CONTRACT NO. 61F33</b>				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**



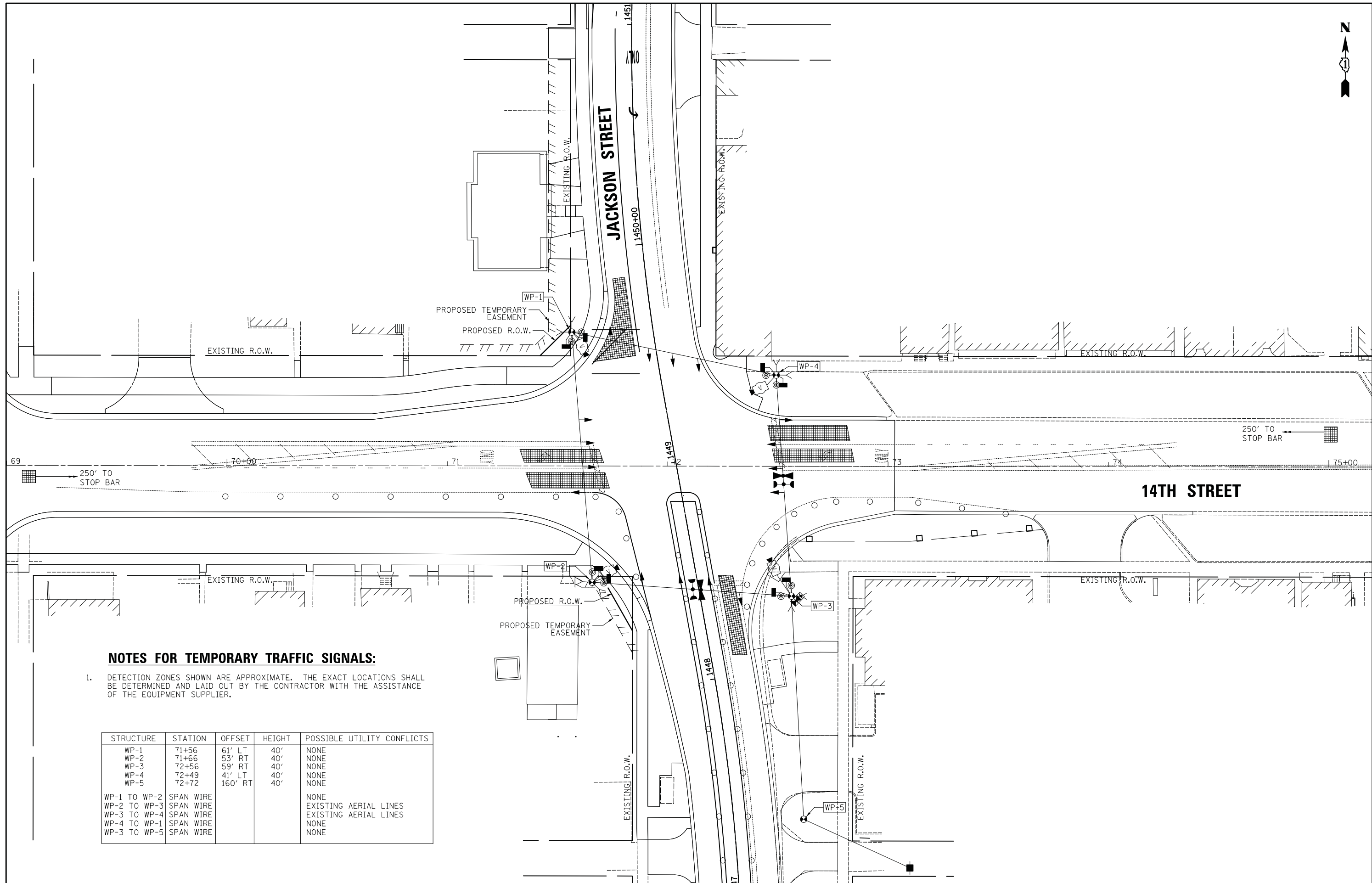
**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A  
 14TH STREET AT JACKSON STREET**  
 SCALE: 1" = 20' SHEET NO. 9 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	389
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED

DATE	BY	SURVEYED	PLOTTED	NOTE BOOK	AREAS CHECKED



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE



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DEPARTMENT OF TRANSPORTATION**



**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B  
14TH STREET AT JACKSON STREET**

SCALE: 1" = 20' SHEET NO. 10 OF 11 SHEETS STA. TO STA.

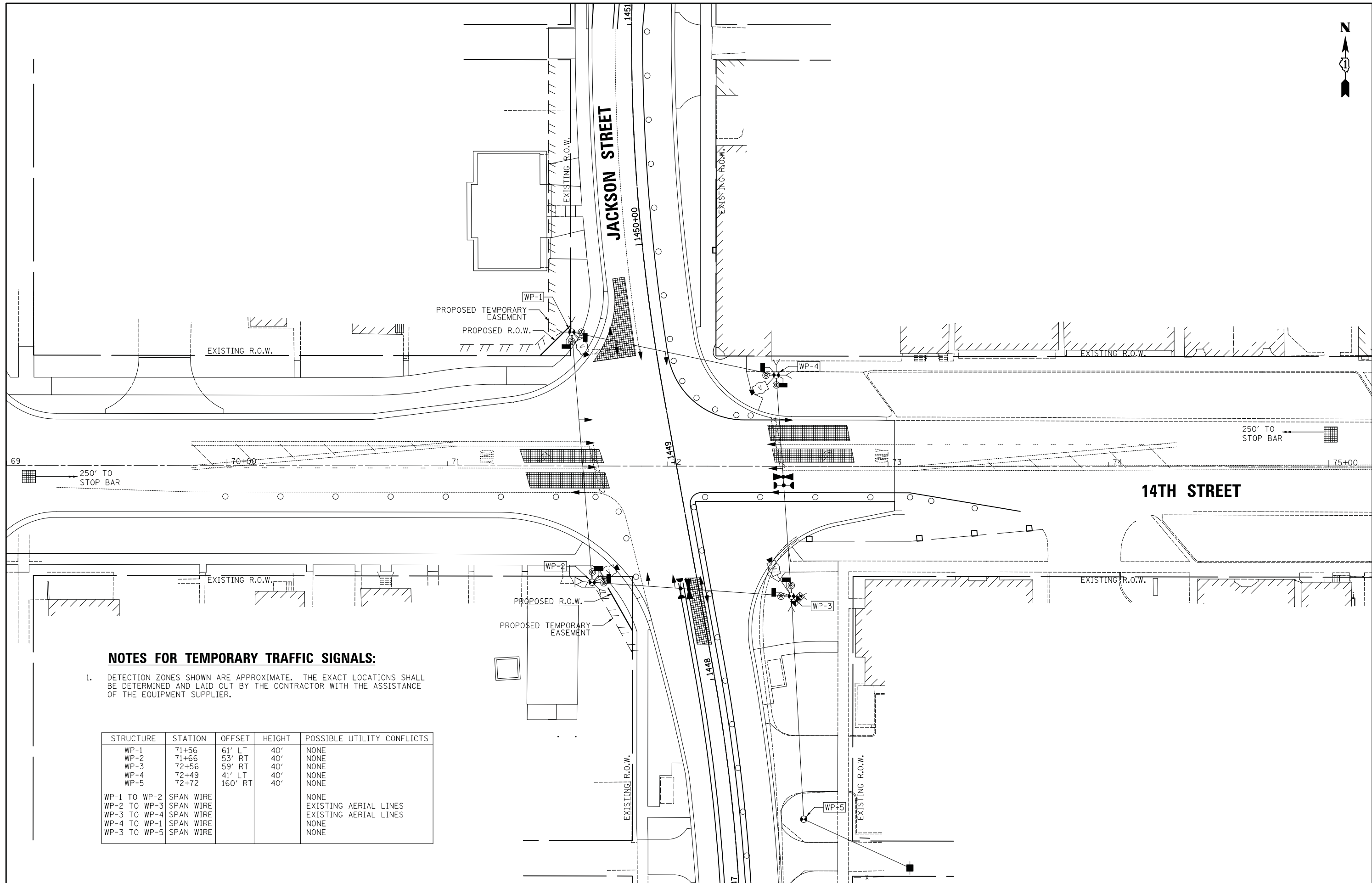
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	390
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS CHECKED
		NO.			



**NOTES FOR TEMPORARY TRAFFIC SIGNALS:**

1. DETECTION ZONES SHOWN ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED AND LAID OUT BY THE CONTRACTOR WITH THE ASSISTANCE OF THE EQUIPMENT SUPPLIER.

STRUCTURE	STATION	OFFSET	HEIGHT	POSSIBLE UTILITY CONFLICTS
WP-1	71+56	61' LT	40'	NONE
WP-2	71+66	53' RT	40'	NONE
WP-3	72+56	59' RT	40'	NONE
WP-4	72+49	41' LT	40'	NONE
WP-5	72+72	160' RT	40'	NONE
WP-1 TO WP-2	SPAN WIRE			NONE
WP-2 TO WP-3	SPAN WIRE			EXISTING AERIAL LINES
WP-3 TO WP-4	SPAN WIRE			EXISTING AERIAL LINES
WP-4 TO WP-1	SPAN WIRE			NONE
WP-3 TO WP-5	SPAN WIRE			NONE

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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
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**TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2C  
 14TH STREET AT JACKSON STREET**

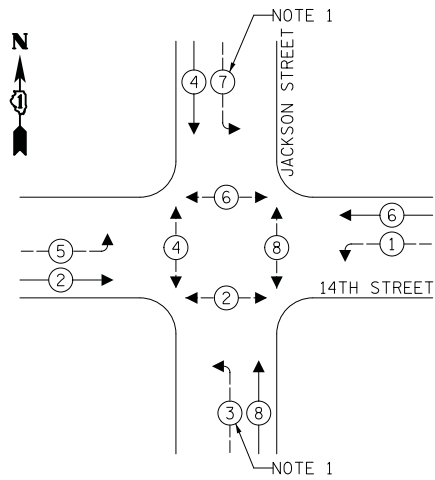
SCALE: 1" = 20' SHEET NO. 11 OF 11 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	391
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





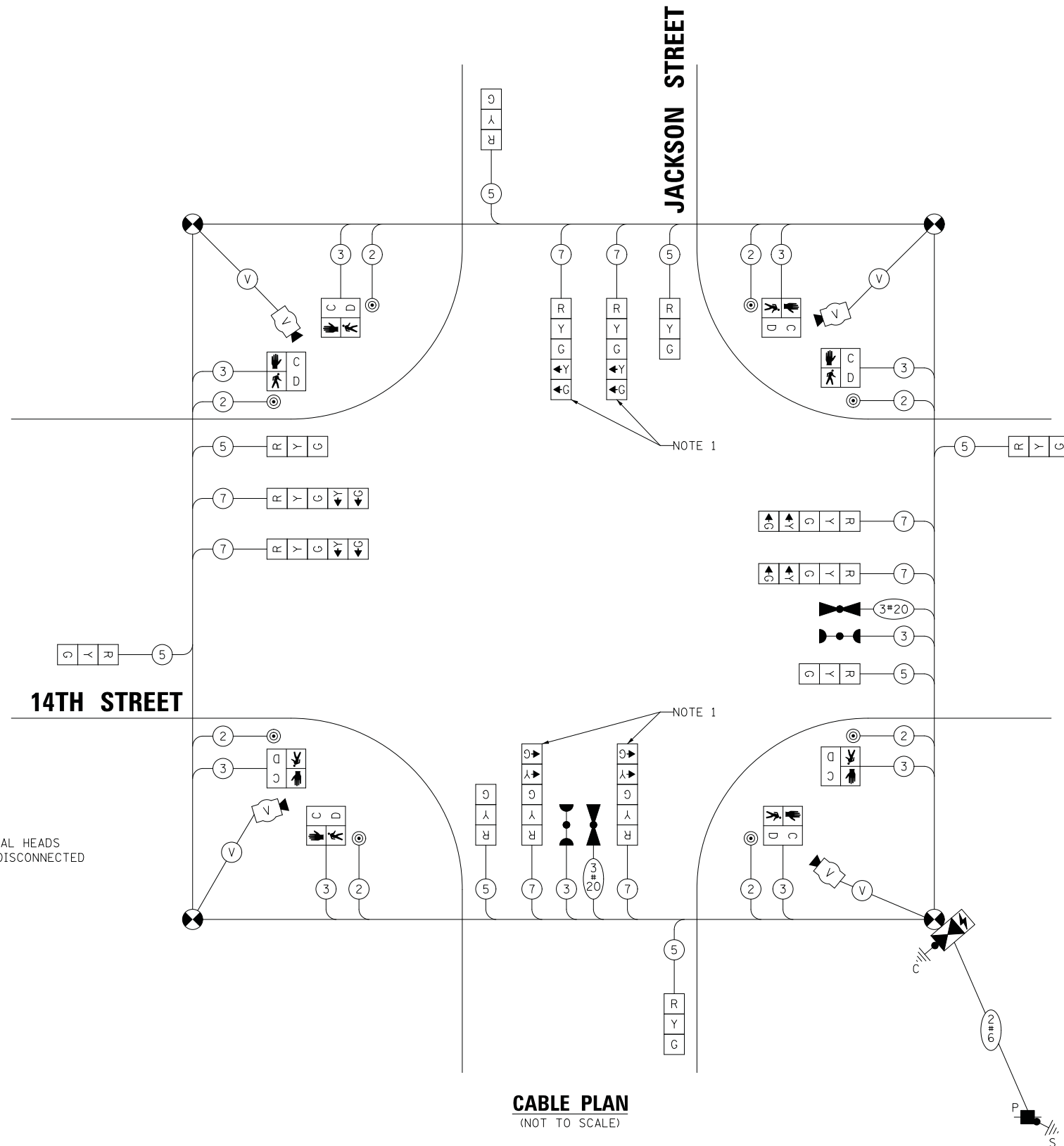
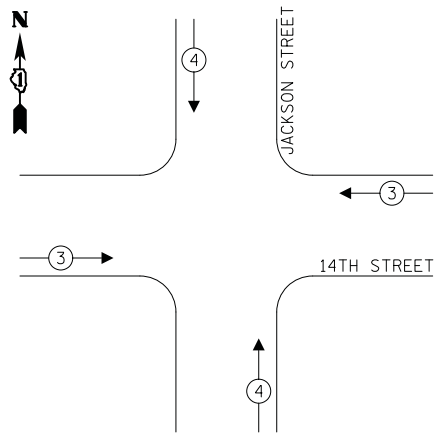
**PROPOSED CONTROLLER SEQUENCE**



**LEGEND:**

- ← ⊙ — PROTECTED PHASE
- ← ⊙ — PROTECTED/PERMITTED PHASE
- ← ⊙ → — PEDESTRIAN PHASE
- ← ⊙ — OL — OVERLAP

**PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**CABLE PLAN**  
(NOT TO SCALE)

**NOTES:**

1. THE LEFT TURN SECTIONS OF THESE SIGNAL HEADS SHALL BE BAGGED AND PHASES 3 AND 7 DISCONNECTED DURING MOT STAGES 1A-1C AND 2A-2C.

**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
TOTAL =				593.8

ENERGY COSTS TO:

CITY OF NORTH CHICAGO  
1850 LEWIS AVENUE  
NORTH CHICAGO, IL 60064

ENERGY SUPPLY: CONTACT: VALERIE WESTBROOK  
PHONE: (847) 816-5489  
COMPANY: COMED  
ACCOUNT NUMBER: 0324157020

DATE	BY
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NOTE BOOK	AREAS CHECKED
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NOTE BOOK	AREAS CHECKED
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**TEMPORARY CABLE PLAN AND SEQUENCES  
14TH STREET AT JACKSON STREET**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	392
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

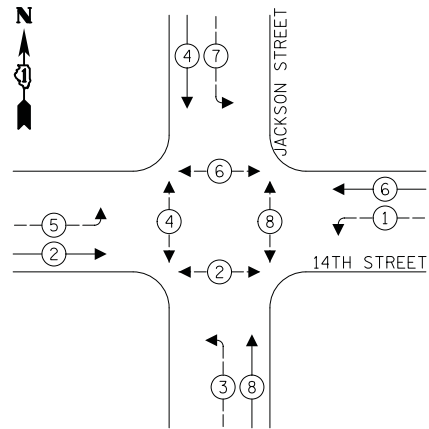




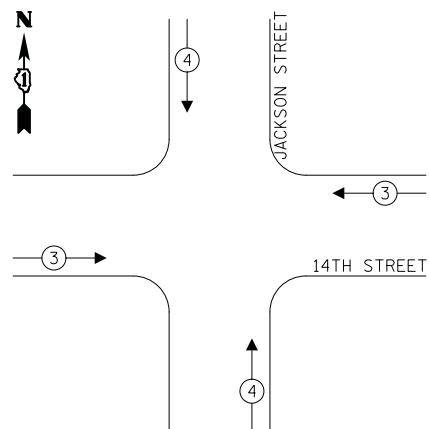
**PROPOSED CONTROLLER SEQUENCE**

**LEGEND:**

- ← ⊙ ← PROTECTED PHASE
- ← ⊙ ← PROTECTED/PERMITTED PHASE
- ← ⊙ ← PEDESTRIAN PHASE
- ← ⊙ ← OL OVERLAP



**PROPOSED EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



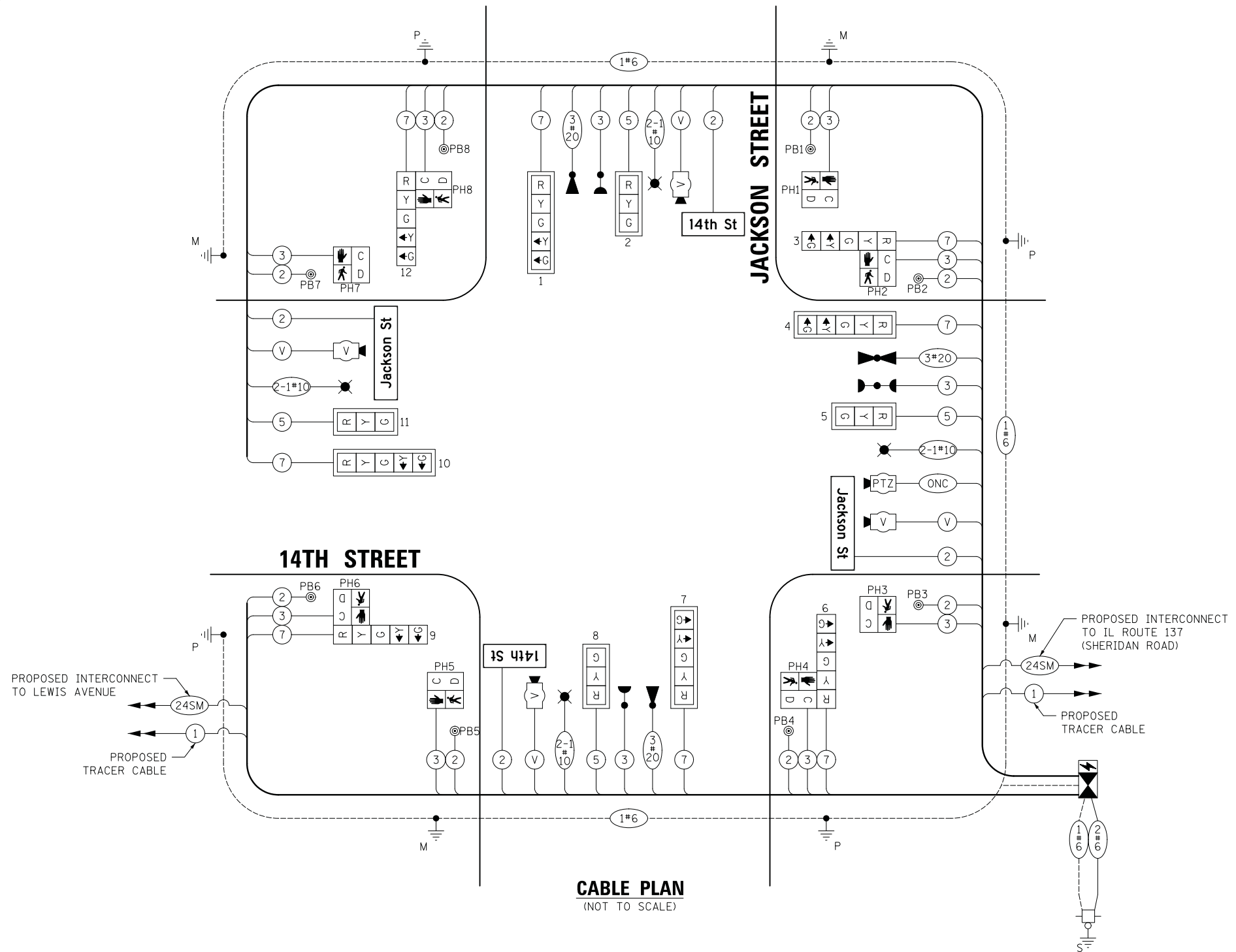
**TRAFFIC SIGNAL  
ELECTRICAL SERVICE REQUIREMENTS**

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	50	102.0
(YELLOW)	12	25	5	15.0
(GREEN)	12	15	45	81.0
ARROW	16	12	10	19.2
PED. SIGNAL	8	25	100	200.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	4	64	50	128.0
LUMINAIRE	4	250	50	500.0
TOTAL =				1320.2

ENERGY COSTS TO:

CITY OF NORTH CHICAGO  
1850 LEWIS AVENUE  
NORTH CHICAGO, IL 60064

ENERGY SUPPLY: CONTACT: VALERIE WESTBROOK  
PHONE: (847) 816-5489  
COMPANY: COMED  
ACCOUNT NUMBER: 0324157020



**CABLE PLAN**  
(NOT TO SCALE)

DATE	BY
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NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
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DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

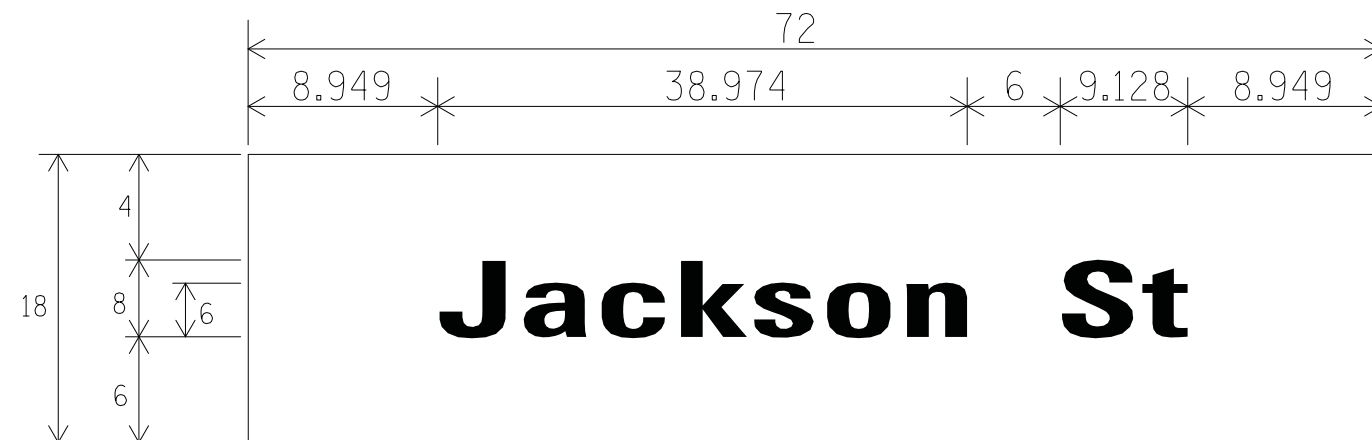
**CABLE PLAN AND SEQUENCES  
14TH STREET AT JACKSON STREET**

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

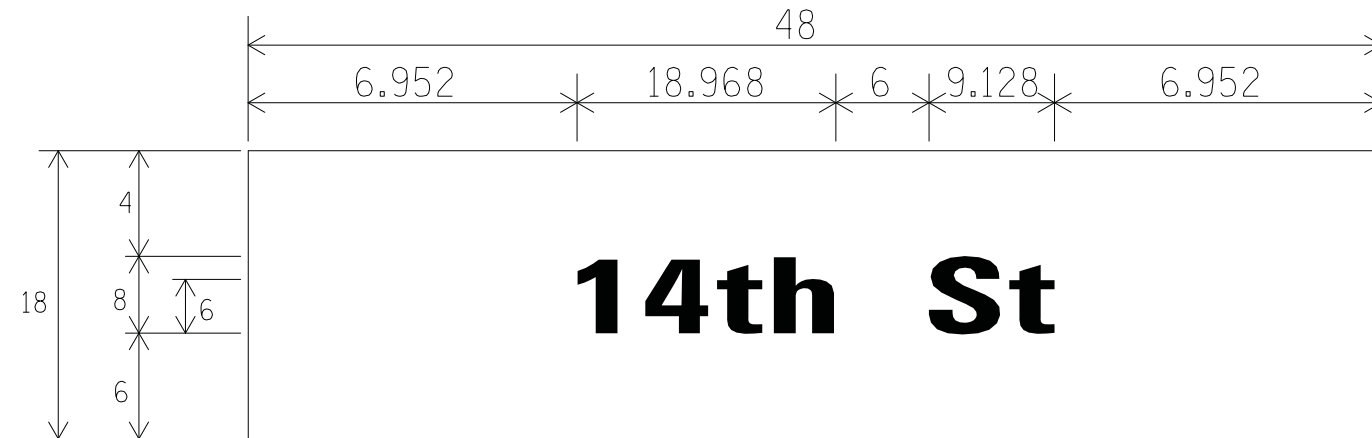
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	394
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

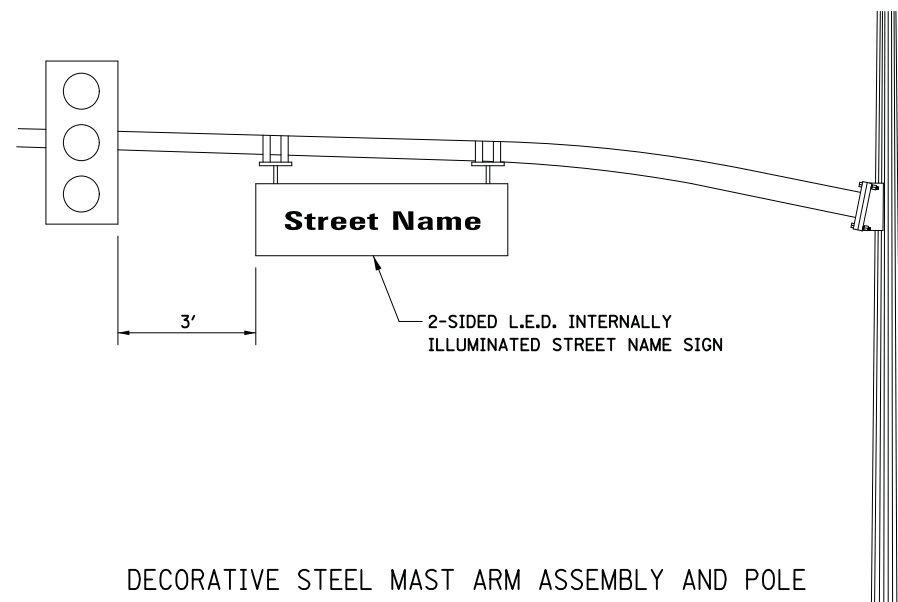


ALL DIMENSIONS SHOWN IN INCHES

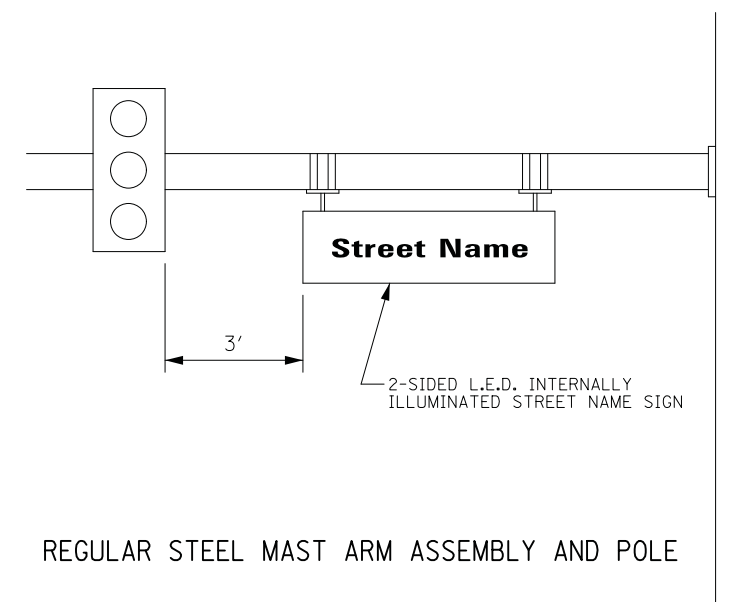


ALL DIMENSIONS SHOWN IN INCHES

NOTE: L.E.D. ILLUMINATED STREET NAME SIGNS  
MAY ONLY BE AVAILABLE ONLY IN 2 FOOT INCREMENTS.



DECORATIVE STEEL MAST ARM ASSEMBLY AND POLE



REGULAR STEEL MAST ARM ASSEMBLY AND POLE

9.0 SQ. FT. EACH  
2 REQUIRED  
     SINGLE SIDED REQUIRED  
X DOUBLE SIDED REQUIRED  
DESIGN SERIES D

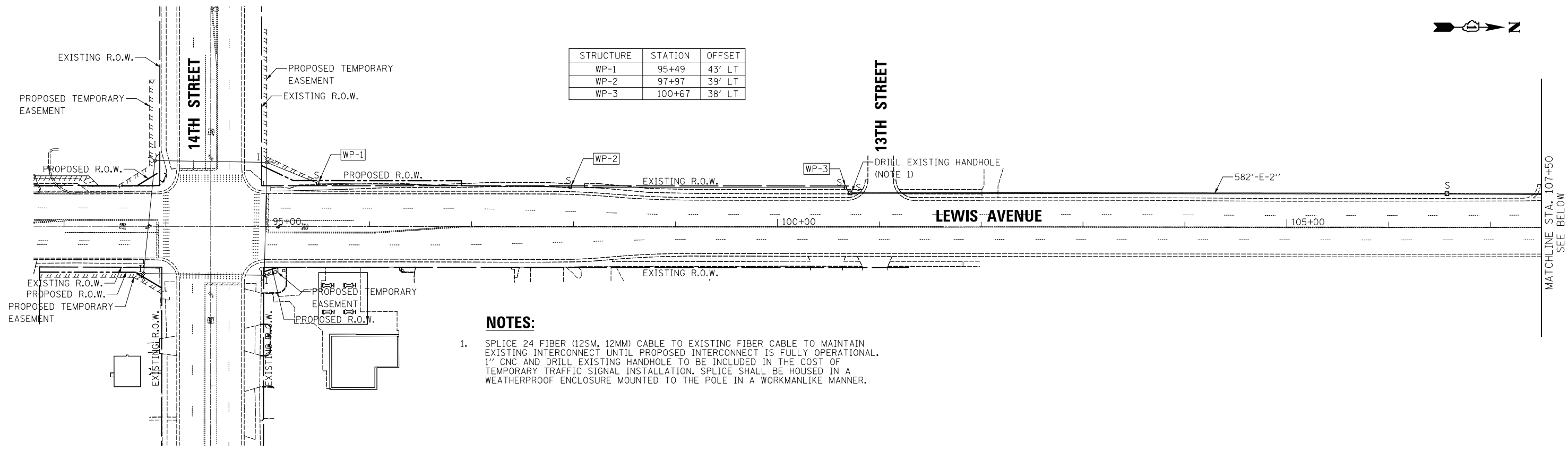
6.0 SQ. FT. EACH  
2 REQUIRED  
     SINGLE SIDED REQUIRED  
X DOUBLE SIDED REQUIRED  
DESIGN SERIES D

**SCHEDULE OF QUANTITIES**

PAY ITEM	UNIT	QNTY.
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	154
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	23
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3 1/2" DIA.	FOOT	27
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	376
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1584
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1752
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1621
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	698
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1328
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	180
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	768
CONCRETE FOUNDATION, TYPE A	FOOT	16
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	60
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	8
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	457
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	4
OUTDOOR RATED NETWORK CABLE	FOOT	102
UNINTERRUPTABLE POWER SUPPLY AND CABINET, SPECIAL	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT. (SPECIAL)	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT. (SPECIAL)	EACH	2
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	EACH	1
TRAFFIC SIGNAL POST, 16 FOOT, (SPECIAL)	EACH	4
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
LUMINAIRE INSTALLATION, TYPE 4	EACH	4

FINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		

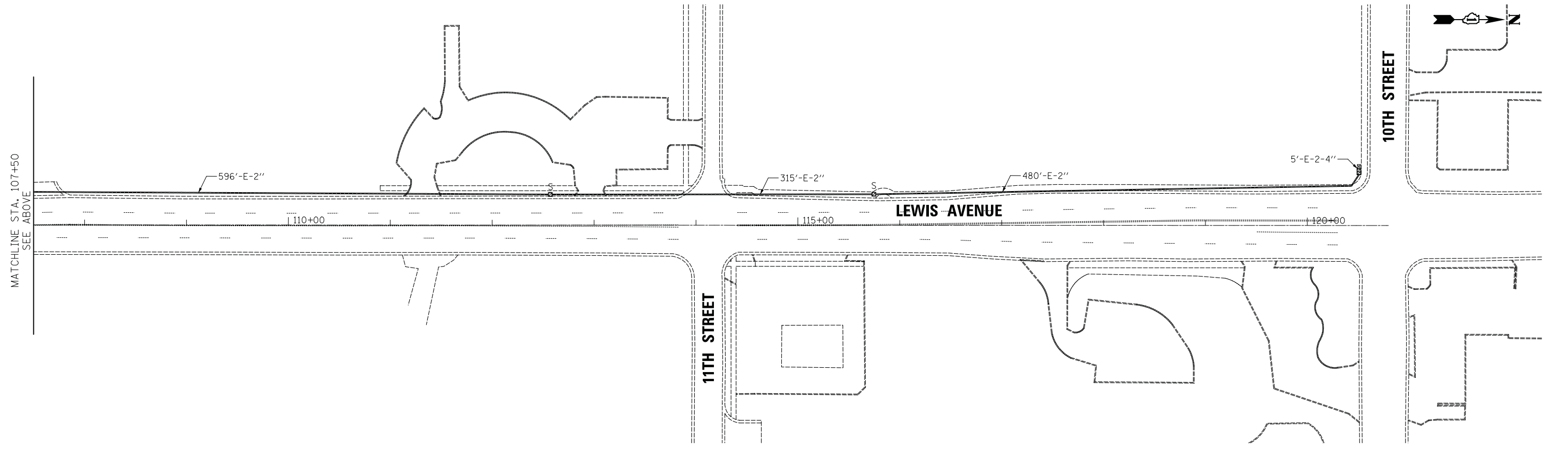
ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		
	AREAS CHECKED		



STRUCTURE	STATION	OFFSET
WP-1	95+49	43' LT
WP-2	97+97	39' LT
WP-3	100+67	38' LT

**NOTES:**

- SPLICE 24 FIBER (12SM, 12MM) CABLE TO EXISTING FIBER CABLE TO MAINTAIN EXISTING INTERCONNECT UNTIL PROPOSED INTERCONNECT IS FULLY OPERATIONAL. 1" CNC AND DRILL EXISTING HANDHOLE TO BE INCLUDED IN THE COST OF TEMPORARY TRAFFIC SIGNAL INSTALLATION. SPLICE SHALL BE HOUSED IN A WEATHERPROOF ENCLOSURE MOUNTED TO THE POLE IN A WORKMANLIKE MANNER.



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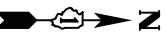
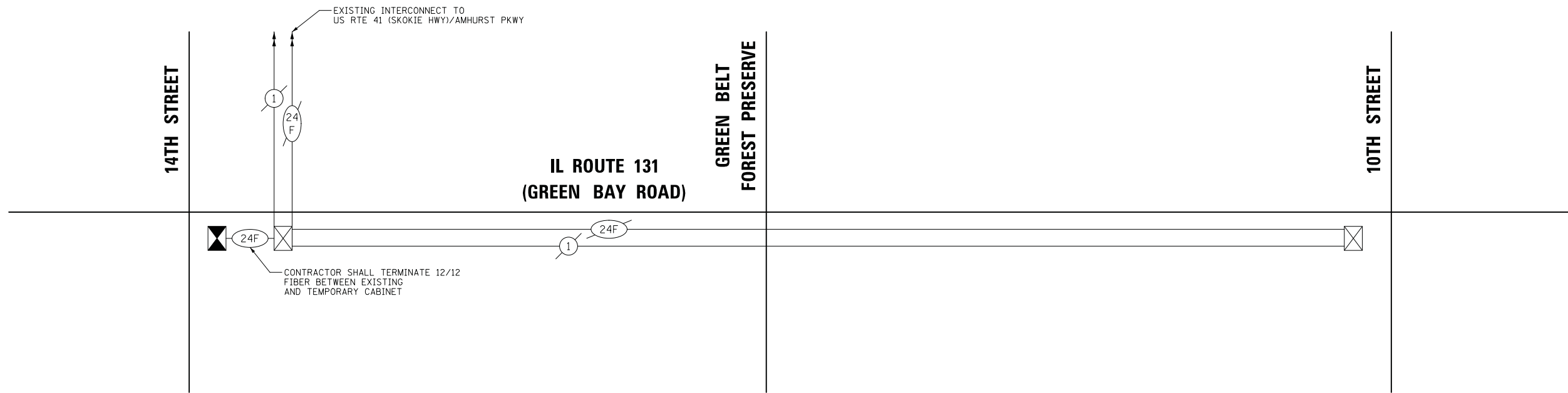
**TEMPORARY INTERCONNECT PLAN - LEWIS AVENUE**  
**14TH STREET TO 10TH STREET**  
 SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	396
				CONTRACT NO. 61F33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

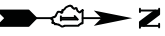
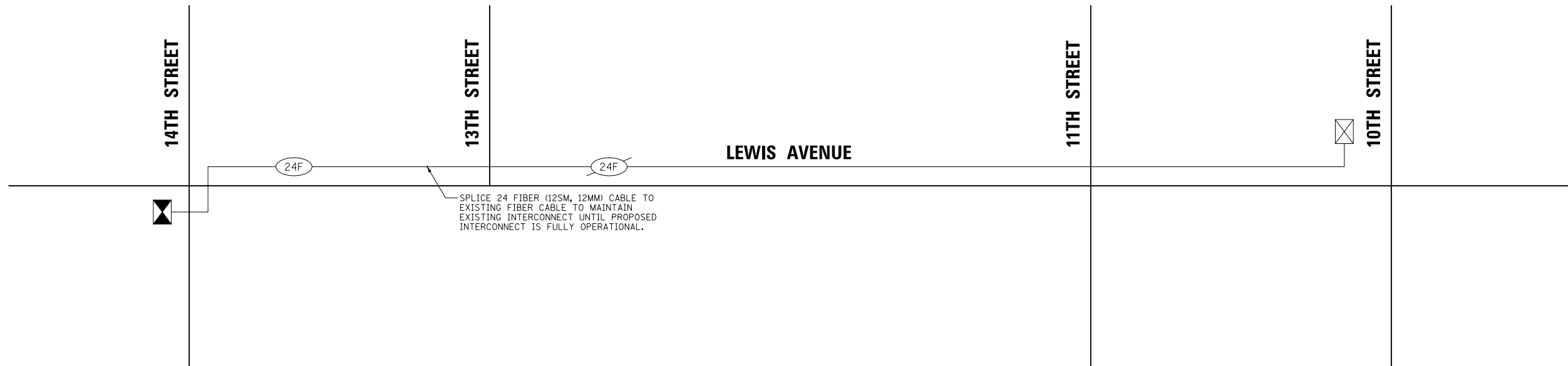
MATCHLINE STA. 107+50  
SEE BELOW



FINIAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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DESIGNED - LEP	REVISED -
DRAWN - OJT	REVISED -
CHECKED - JJE	REVISED -
DATE - 11/7/2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

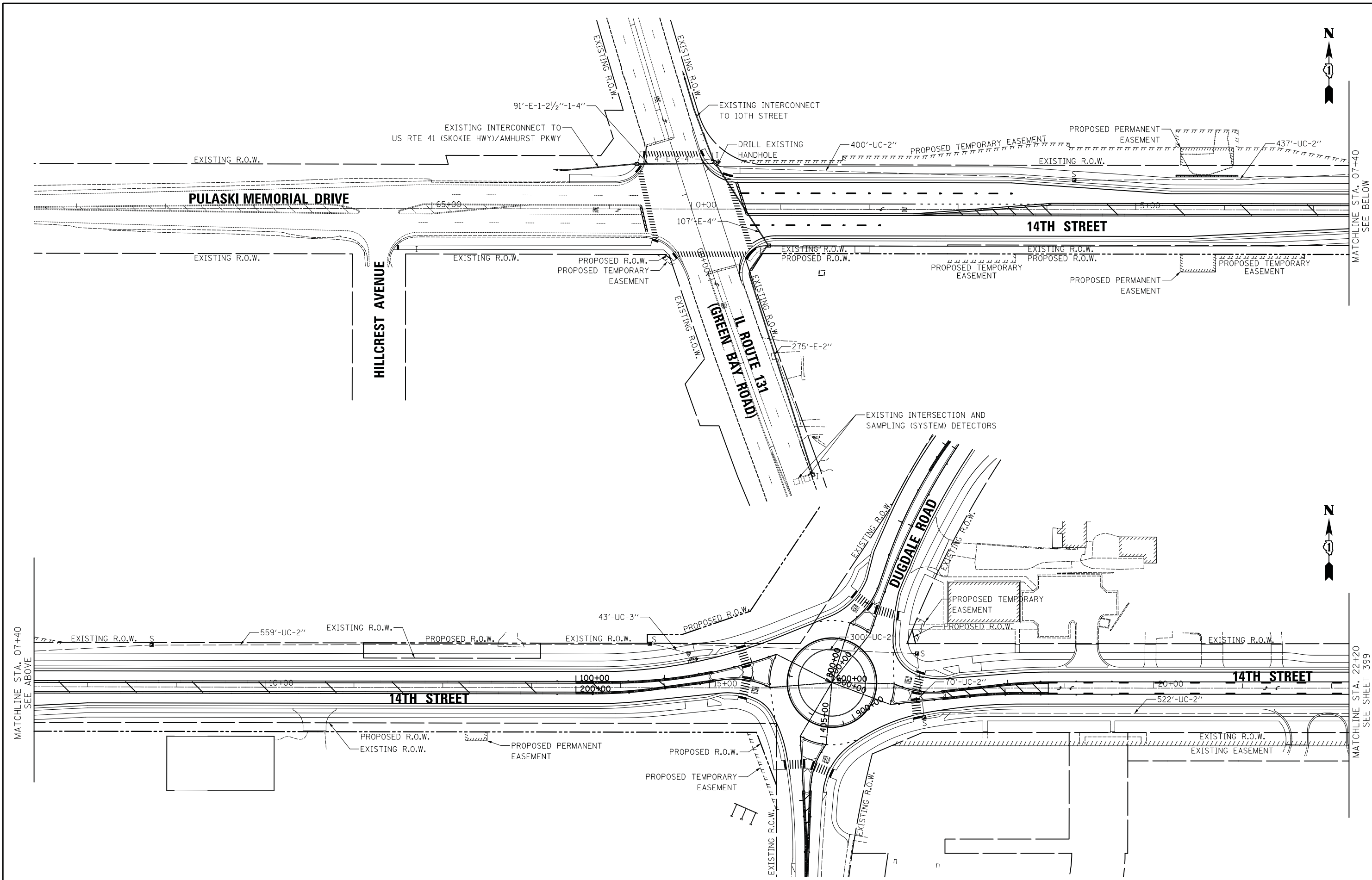
**TEMPORARY INTERCONNECT SCHEMATIC  
 14TH STREET TO 10TH STREET**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	397
CONTRACT NO. 61F33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



MATCHLINE STA. 07+40  
SEE BELOW

MATCHLINE STA. 22+20  
SEE SHEET 399

MATCHLINE STA. 07+40  
SEE ABOVE

**CIVILTECH**  
Two Pierce Place, Suite 1400  
Itasca, Illinois 60143  
Tel: 630.773.3900 Fax: 630.773.3975  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**



**14TH STREET INTERCONNECT PLAN**  
**IL ROUTE 131 (GREEN BAY ROAD) TO IL ROUTE 137 (SHERIDAN ROAD)**  
SCALE: 1" = 50' SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1228	99-00260-01-WR	LAKE	566	398
				CONTRACT NO. 61F33
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



