



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
WOODBURY/PLYMOUTH COUNTY
CLEARING & GRUBBING
Military Rd in Sioux City to S Jct IA 3

SCALES: As Noted

INDEX OF SHEETS	
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A.1	Title Sheet
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C Sheets	Quantities and General Information
C.1	Estimated Project Quantities & Reference Information
C.2 - 7	Tabulations & General Notes
J Sheets	Traffic Control and Staging Sheets
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J.2	511 Travel Restrictions
J.3	Coordinated Operations
RR Sheets	Erosion Control Sheets
RR.1 - 17	Erosion Control Legend and Symbol Information Sheet

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



DESIGN DATA RURAL				
2026	AADT	1,603	V.P.D.	
2046	AADT	—	V.P.D.	
2046	DHV	—	V.P.H.	
	TRUCKS	11	%	
	Total			
	Design ESALs	—		

REVISIONS

TOTAL	
29	
PROJECT IDENTIFICATION NUMBER	
26-97-012-050	
PROJECT NUMBER	
MP-012-3(718)10--76-97	
R.O.W. PROJECT NUMBER	

ROADWAY DESIGN



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Signature: Justin M. Pottorff Date: 08/04/2026

Printed or Typed Name: JUSTIN M. POTTORFF

My license renewal date is December 31, 2026

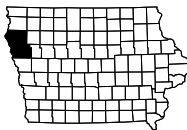
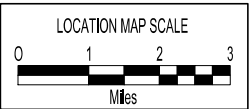
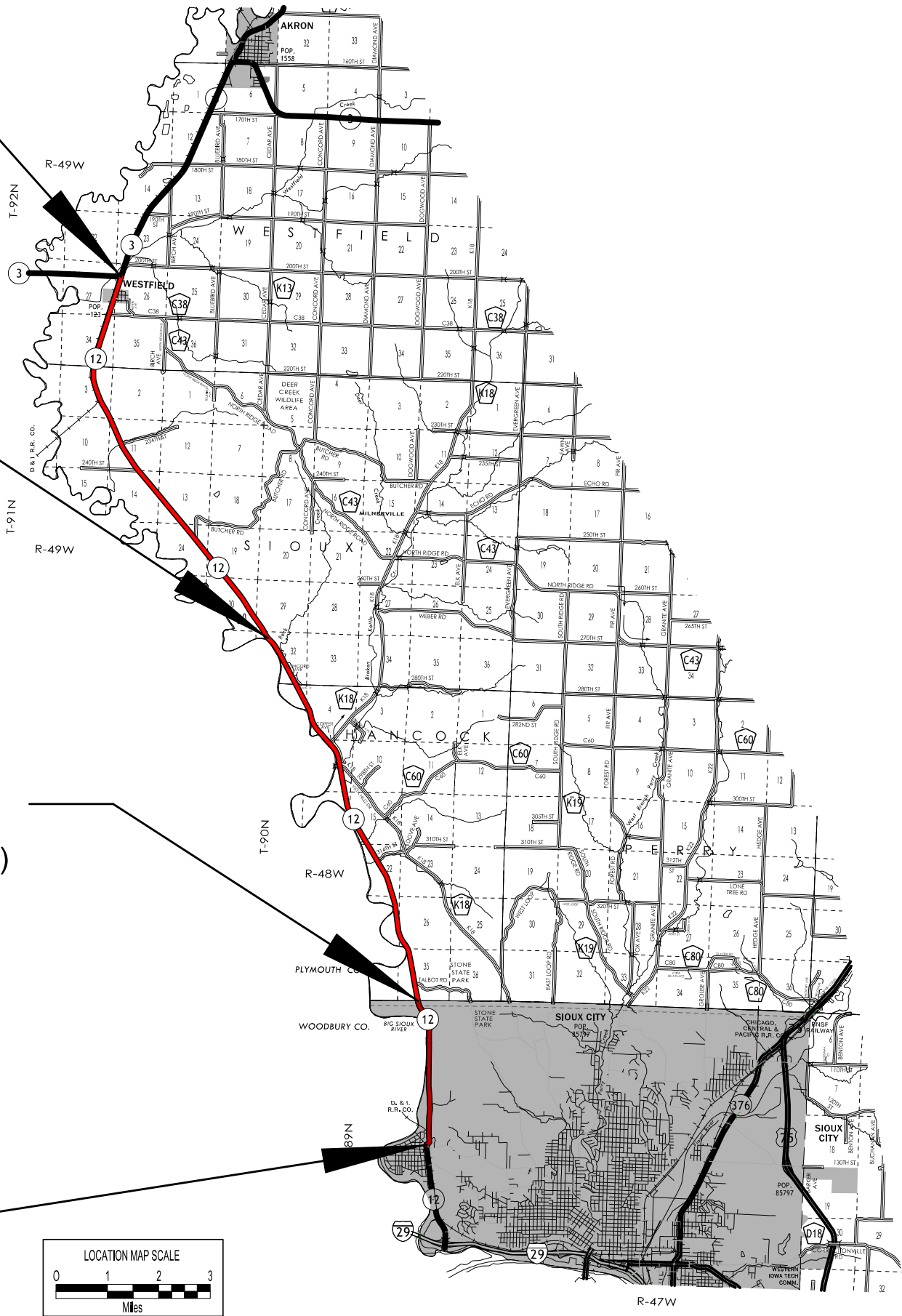
Pages or sheets covered by this seal: ALL

END CONSTRUCTION
STA. 419+25
MP 28.87

EQUATION:
673+35.9 (BACK) =
0+00 (AHEAD) (Increasing)

EQUATION:
0+00 (BACK) =
1092+54.4 (AHEAD) (Decreasing)

BEGIN CONSTRUCTION
STA. 152+17 (Decreasing)
MP 9.97



ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Iowa DOT : Roadway Items

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Iowa DOT	
1	2101-0850001	CLEARING AND GRUBBING	ACRE	18.41	Refer to Tab. 110-17 on C Sheets & RR Sheets for locations. For areas that are to be cleared only, cut flush with the ground. This work shall be completed between October 1st and March 31st.
2	2101-0850002	CLEARING AND GRUBBING	UNIT	148.4	Refer to Tab. 110-17 on C Sheets & RR Sheets for locations. For units in Westfield that are to be cleared only, cut branches or limbs back to clear zone. This work shall be completed between October 1st and March 31st.
3	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Traffic Control Plan on Tab. 108-23A on J Sheets.
4	2528-8445116	FLAGGER WITH AFAD	EACH	0	See Proposal.
5	2533-4980005	MOBILIZATION	LS	1	--
6	2601-3000206	HERBICIDE APPLICATION, CUT STUMP	LS	1	Refer to Tab. 300-99 on C Sheets.

100_01D 8/15/22	PROJECT DESCRIPTION
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This is a Clearing and Grubbing project on IA 12 in Woodbury and Plymouth Counties from Military Road in Sioux City to the south junction IA 3.

105_04 10/20/26 STANDARDS The following Standards apply to construction work on this project.		
Number	Date	Title
TC-1	10-15-19	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-202	04-18-23	Work Within 15 ft of Traveled Way
TC-213	04-18-23	Lane Closure with Flaggers
TC-231	04-18-23	Slow Moving Vehicle Operating in the Traffic Lane

Line No.	Station From	Station To	Direction of Traffic	Work and Material Type	>3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Other Materials Length (FT)	Other Materials Width (FT)	Estimated Units	Estimated Area (Acres)	Estimated Herbicide Application (EA)	Remarks
1.0	146+00.00	133+40.00	SB	Trees - Clearing and Grubbing																	0.690		
2.0	142+00.00	130+75.00	NB	Trees - Clearing and Grubbing																	0.610		
3.0	120+66.00	111+90.00	NB	Trees - Clearing and Grubbing																	0.480		
4.0	101+50.00	95+00.00	NB	Trees - Clearing and Grubbing																	0.350		
5.0	87+15.00	71+40.00	NB	Trees - Clearing and Grubbing																	0.870		
6.0	88+30.00	68+45.00	SB	Trees - Clearing and Grubbing																	1.090		
7.0	46+00.00	39+42.00	SB	Trees - Clearing and Grubbing																	0.360		
8.0	39+30.00	38+40.00	SB	Trees - Clearing																	0.050	1	
9.0	38+15.00	37+00.00	SB	Trees - Clearing and Grubbing																	0.060		
11.0	39+30.00	38+40.00	NB	Trees - Clearing																	0.050	1	
14.0	20+75.00	20+20.00	NB	Trees - Clearing																	0.030	1	
16.0	1064+50.00	1052+50.00	SB	Trees - Clearing and Grubbing																	0.660		
19.0	1041+25.00	1040+69.00	NB	Trees - Clearing																	0.030	1	
21.0	1043+50.00	1035+00.00	SB	Trees - Clearing																	0.470	1	
24.0	1021+00.00	1015+50.00	SB	Trees - Clearing and Grubbing																	0.300		
25.0	1007+45.00	1002+00.00	NB	Trees - Clearing																	0.300	1	
26.0	997+35.00	989+50.00	SB	Trees - Clearing																	0.430	1	
30.0	934+40.00	926+90.00	SB	Trees - Clearing and Grubbing																	0.410		
31.0	919+10.00	909+80.00	NB	Trees - Clearing																	0.510	1	
32.0	920+50.00	917+65.00	SB	Trees - Clearing and Grubbing																	0.160		
33.0	917+65.00	915+42.00	SB	Trees - Clearing																	0.120	1	
35.0	888+85.00	871+25.00	SB	Trees - Clearing and Grubbing																	0.970		
37.0	863+00.00	858+50.00	SB	Trees - Clearing and Grubbing																	0.250		
38.0	853+60.00	849+25.00	SB	Trees - Clearing and Grubbing																	0.240		
39.0	832+00.00	830+00.00	SB	Trees - Clearing																	0.110	1	
41.0	831+39.00	827+70.00	NB	Trees - Clearing																	0.200	1	
43.0	793+90.00	784+00.00	SB	Trees - Clearing and Grubbing																	0.550		
45.0	779+70.00	756+75.00	SB	Trees - Clearing																	1.260	1	
46.0	752+25.00	751+75.00	SB	Trees - Clearing and Grubbing																	0.030		
48.0	738+50.00	729+03.00	SB	Trees - Clearing																	0.520	1	
49.0	728+50.00	724+00.00	SB	Trees - Clearing and Grubbing																	0.250		
51.0	721+00.00	716+00.00	SB	Trees - Clearing and Grubbing																	0.280		
52.0	710+35.00	709+58.00	NB	Trees - Clearing																	0.040	1	
54.0	710+35.00	696+50.00	SB	Trees - Clearing																	0.380	1	
55.0	691+00.00	685+00.00	SB	Trees - Clearing																	0.160	1	
56.0	683+00.00	684+17.00	SB	Logs and Down Timber - Clearing																	0.060	1	
57.0	676+00.00	673+35.00	SB	Trees - Clearing and Grubbing																	0.150		
58.0		16+00.00	SB	Trees - Clearing and Grubbing																	0.880		
61.0	26+05.00	42+80.00	SB	Trees - Clearing and Grubbing																	0.920		
62.0	42+80.00	45+50.00	SB	Trees - Clearing																	0.150	1	
63.0	43+24.00	45+93.00	NB	Trees - Clearing																	0.130	1	
66.0	52+25.00	70+50.00	SB	Trees - Clearing and Grubbing																	1.010		
68.0	86+65.00	88+00.00	SB	Trees - Clearing and Grubbing																	0.070		
69.0	92+83.00	99+00.00	SB	Trees - Clearing and Grubbing																	0.340		
71.0	99+00.00	106+13.00	NB	Trees - Clearing																	0.390	1	
72.0	112+00.00	121+00.00	SB	Trees - Clearing and Grubbing																	0.500		
79.0	315+85.00	317+45.00	SB	Trees - Clearing and Grubbing																	0.040		
81.0	327+90.00	337+00.00	SB	Trees - Clearing and Grubbing																	0.500		

110_17 1/27/25																									
CLEARING AND GRUBBING																									
Line No.	Station From	Station To	Direction of Traffic	Work and Material Type	>3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Other Materials Length (FT)	Other Materials Width (FT)	Estimated Units	Estimated Area (Acres)	Estimated Herbicide Application (EA)	Remarks		
82.0	400+28.00	400+31.00	NB	Trees - Clearing										1						40.0		1	Trim overhanging branches to edge of clear zone		
83.0	400+95.00	400+99.00	NB	Trees - Clearing										1						40.0		1	Trim overhanging branches to edge of clear zone		
84.0	406+25.00	406+30.00	NB	Trees - Clearing											1					60.0		1	Trim overhanging branches to edge of clear zone		
85.0	406+74.00	406+76.00	NB	Trees - Clearing						1										8.4		1	Trim overhanging branches to edge of clear zone		
																				148.4	18.410	24			

SPECIAL NOTE SN-1					300_99 Modified	
HERBICIDE APPLICATION, CUT STUMP						
Coordinate Herbicide Application with Clearing and Grubbing. Herbicide Application, Cut Stump, Each is associated with Clearing and Grubbing Units. Herbicide Application, Cut Stump, Lump Sum is associated with Clearing and Grubbing Acres.						
Furnish and apply herbicide and dye to cut stumps of live cleared trees and brush. Evergreen trees do not require treatment.						
Apply Standard Note 231-2						
TREATMENT NO. 1: (Only for use on fresh cut stumps and when ambient air or 4-inch soil temperature are above freezing.)						
Cut stumps to ground line prior to herbicide application, using a clean cut that does not damage the cambium layer (the tissue just inside the bark). Brush the cut surface clean. Apply triclopyr herbicide within 5 minutes of the final stump cut. Leave stumps without any additional cutting or grinding for 6 weeks after herbicide treatment to allow time for the herbicide to translocate.						
Use a water-based triethylamine or quaternary ammonium salt formulation of triclopyr herbicide, labeled for use in and around standing water. Mix the herbicide at 2 pounds per gallon acid equivalent (ae) of triclopyr (for example, for products containing 3 pounds per gallon of triclopyr, apply undiluted). Apply the herbicide according to label directions for cut surface treatments, using a brush or directed spray, wetting the outer 2 inches of sapwood and the cambium including the entire circumference and any torn bark areas. It is not necessary to treat the bark on the sides of the stump or exposed roots.						
TREATMENT NO. 2: (Use if stumps are not treated with herbicide immediately after cutting, or if directed by the Engineer to be used following freezing conditions or where stumps are damaged.)						
Cut stumps initially to a height of not less than 6 inches and flag to relocate for herbicide treatment. Apply triclopyr herbicide within 7 days of the stump cut. After treating with herbicide, leave stumps without further cutting for not less than 6 weeks to allow time for the herbicide to translocate, then cut or grind stumps to ground level. The cost for cutting and grinding stumps will not be paid for directly, but will be considered as incidental to the Pay Item for “Herbicide Application, Cut Stump” (Item Code 2590-300012).						
Use an oil-soluble formulation of triclopyr, labeled for use on non-irrigation ditch banks and seasonally dry wetlands. Mix the herbicide with an oil carrier to a concentration of 1.0 pound per gallon acid equivalent (ae) of triclopyr (for example, for products containing 4 pounds per gallon of triclopyr, mix 1 quart herbicide with 3 quarts oil carrier, for a 25% solution). For the oil carrier, use a penetration oil labeled for basal or cut-stump treatments, Diesel fuel and kerosene-based products will not be accepted. “Ready-to-Use” products containing 0.75 pounds per gallon ae of triclopyr and non-petroleum carrier may be approved.						
Apply the herbicide mixture according to label directions for cut stump treatment to the outer 2 inches of the cut surface, wetting the sapwood and cambium (the tissue just inside of the bark layer) around the entire circumference, as well as the sides of the stump to ground line and any exposed roots.						
Caution: This herbicide is volatile and may cause off-target damage if used when temperatures exceed 85 degrees F during the three days following application. It is a violation of federal law to apply this herbicide to areas with standing or flowing water. If soil is saturated or there is standing water in the spray area, do not use this treatment.						
Preapproved triclopyr herbicide products: Water-based formulation: Garlon 3A NuFarm Tahoe 3A Ecotriclopyr Vastlan (4 pound per gallon ae) Oil-soluble formulation: Garlon 4 Ultra NuFarm Tahoe 4E Triclopyr 4EC Pathfinder II (Ready-to-use) Custom blended pre-mixes require the Engineer’s approval.						
Oil carrier: Bark Oil Blue LT Diluent Blue Proprietary oil contained in Pathfinder II						
Dye: Hi-Light Blue Red River Marking Dye Dye contained in Diluent Blue, Bark Oil Blue, or Pathfinder II						
METHOD OF MEASUREMENT Herbicide Application, Cut Stump, Lump Sum will not be measured for payment. Herbicide Application, Cut Stump, Each will be measured per each stump treated with herbicide and cut to ground line.						
BASIS OF PAYMENT Payment for each type of treatment will be made for satisfactory completion of each stump or for the areas treated. Payment is full compensation for locating stumps and furnishing and applying herbicide, as well as furnishing all materials, equipment and labor for performing all work necessary according to contract documents.						
FILE NO.	ENGLISH	DESIGN TEAM	DISTRICT 3	WOODBURY COUNTY	PROJECT NUMBER MP-012-3(718)10--76-97	SHEET NUMBER C.6

7/1/2026 10:44:11 AM

aaron.schwarz@dot.iowa.gov

232_03A
9/28/22

EROSION CONTROL (RURAL SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

Following the completion of work in a disturbed area and according to the seeding dates in Section 2601 of the Standard Specifications, place seed, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,3 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are all incidental to mobilization and will not be paid for separately.

232_11
6/21/23

EROSION CONTROL (STABILIZING CROP SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

If outside of permanent seeding dates in Section 2601 of the Standard Specifications, or if required by a storm water permit, place stabilizing crop, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,1 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03,E,2,a and 4169.07,A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are incidental to mobilization and will will not be paid for separately.

262_06
9/28/22

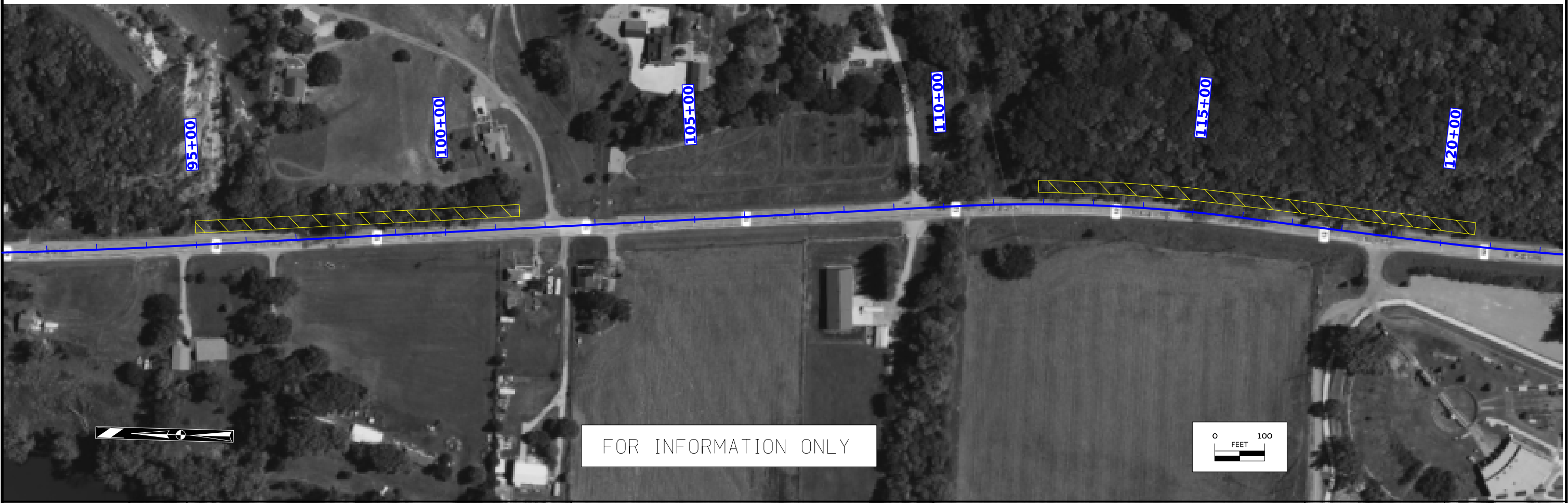
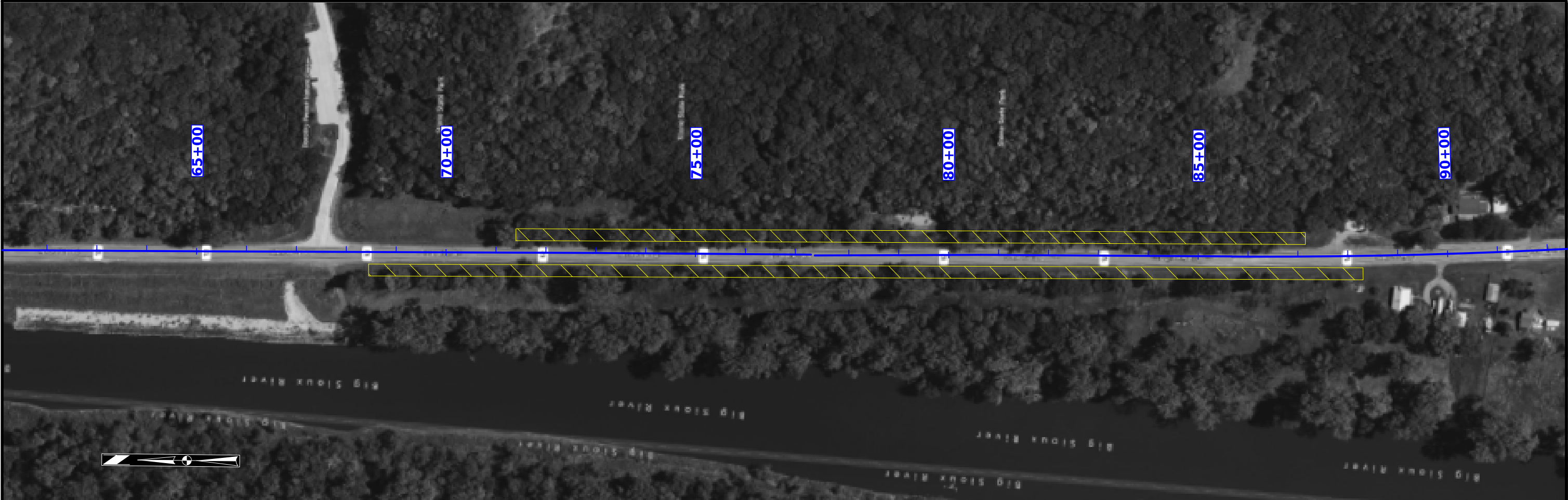
UTILITIES (NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

TRAFFIC CONTROL PLAN		108_23A 8/15/22
1. Through traffic will be maintained on the project at all times. 2. Traffic control on this project shall be found in accordance with the TC series of Standard Road Plans found in Tabulation 105-4 and/or appropriate Detail Sheets included in the plans. For additional complementary information, refer to part VI of the Manual on Uniform Traffic Control Devices and the current Standard Specifications. 3. The contractor shall coordinate traffic control with other projects in the area.		

111_01 10/14/22 COORDINATED OPERATIONS Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.	
Project	Type of Work
BRF-012-2(45)--38-75	Bridge Replacement





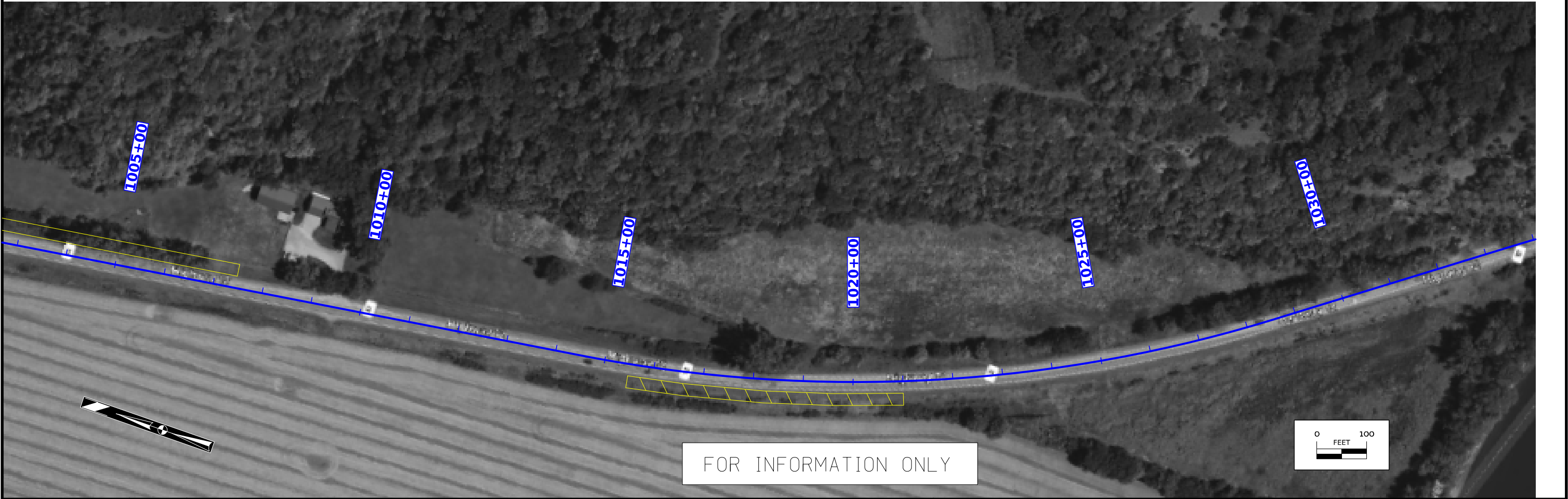
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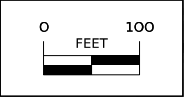


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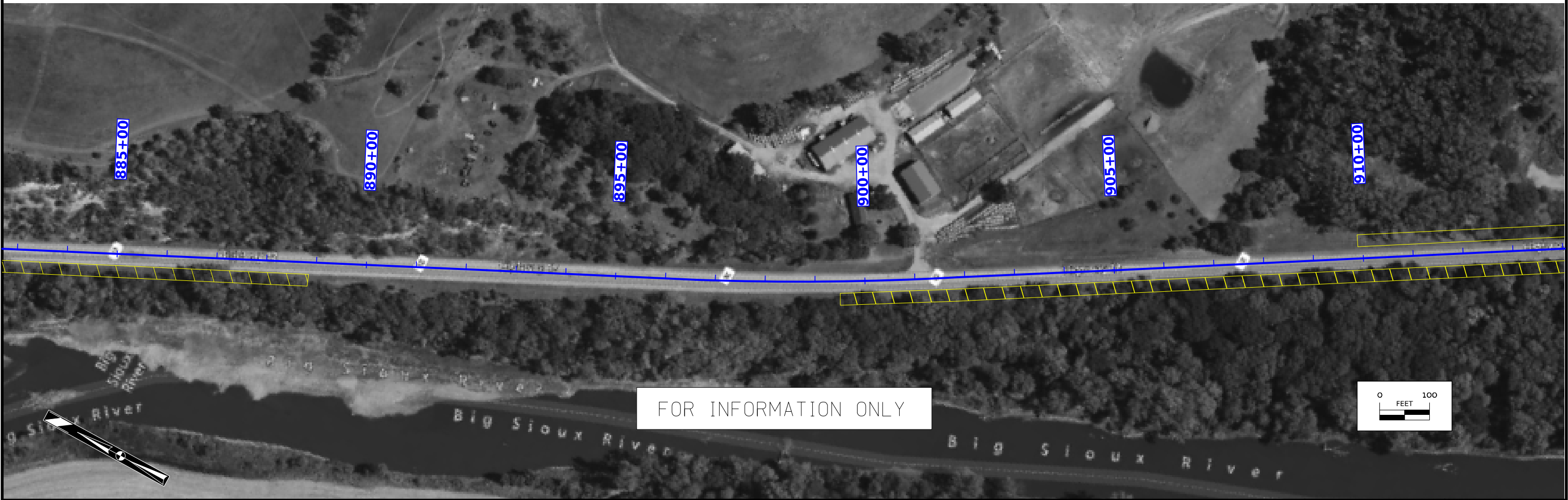
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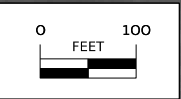
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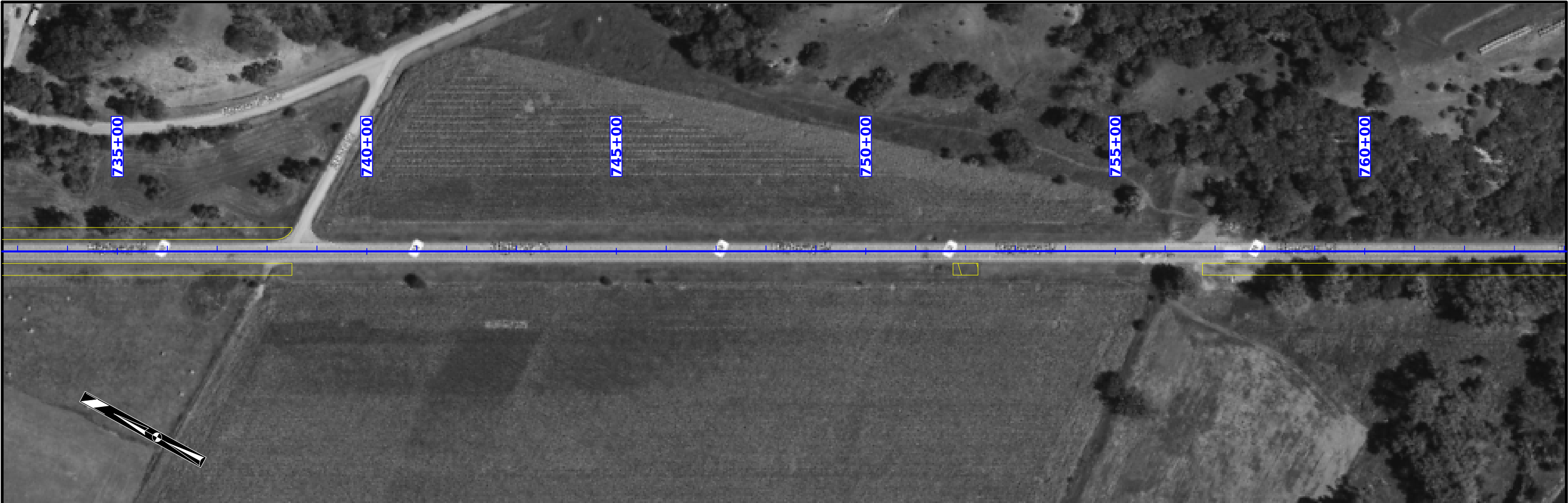


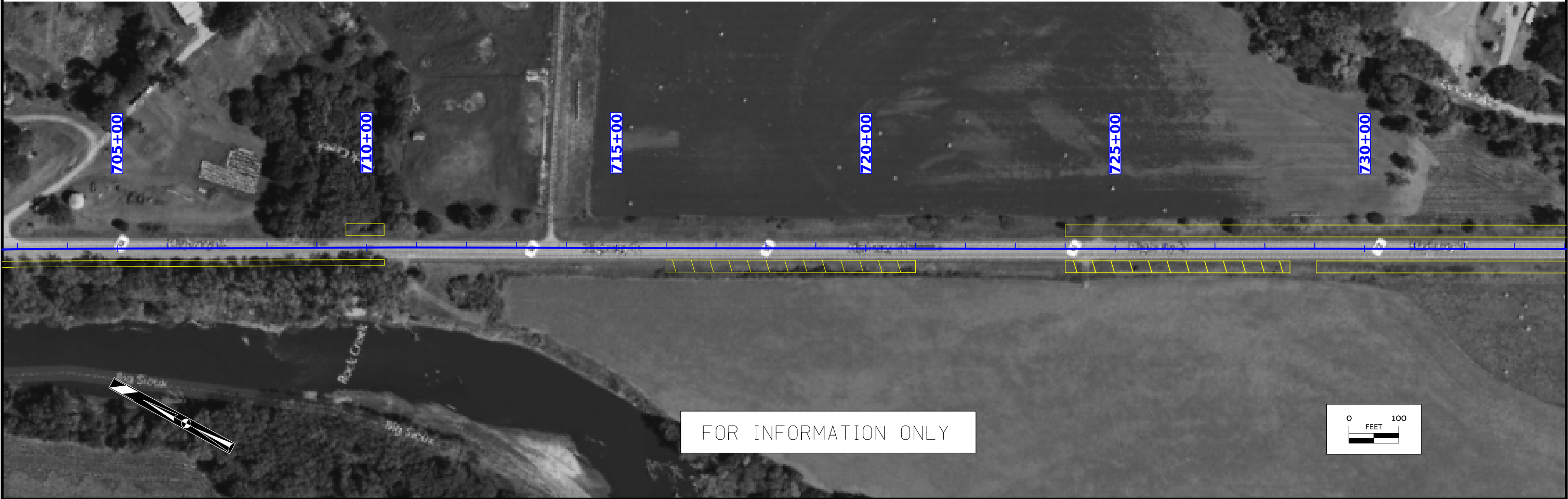


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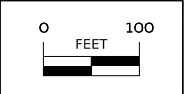


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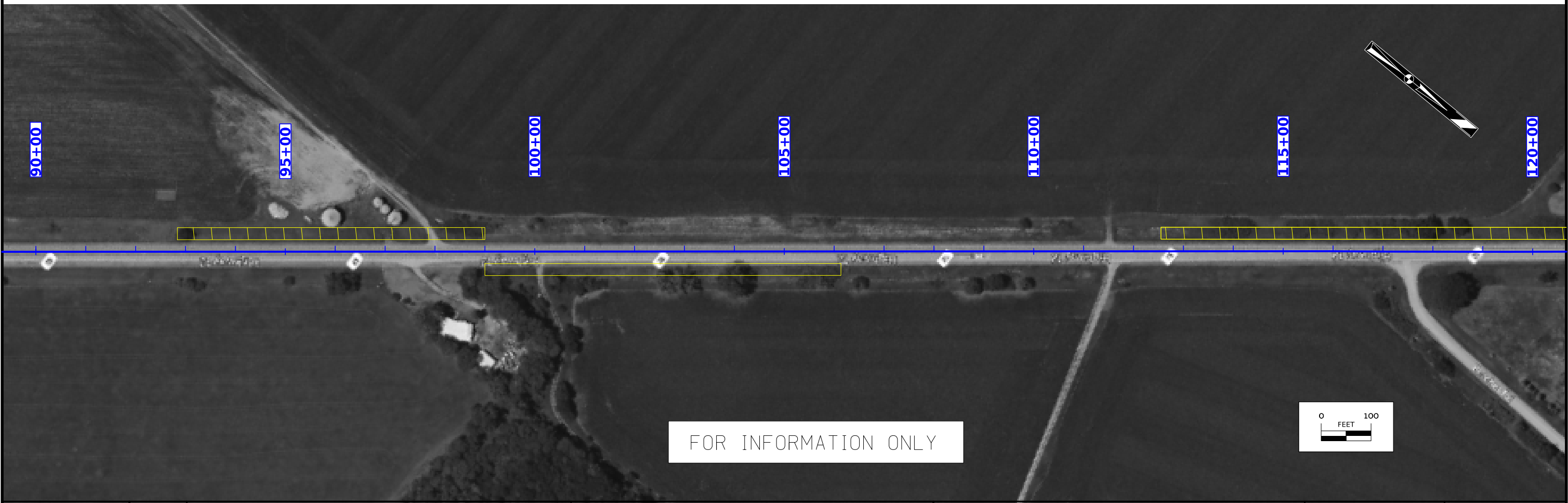
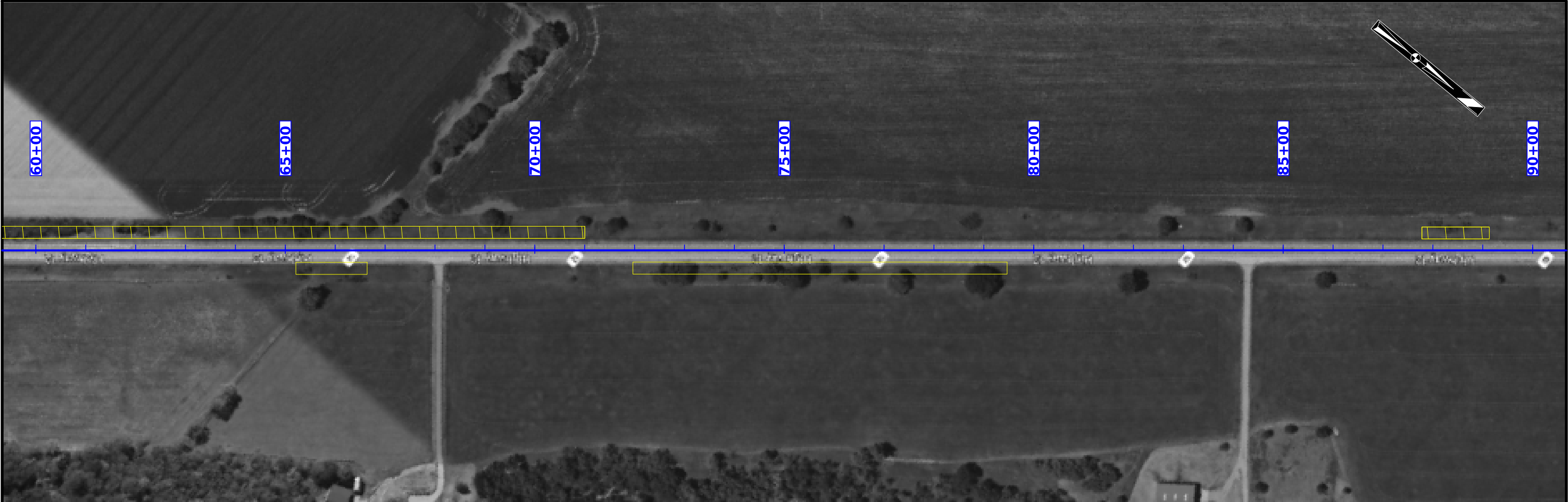


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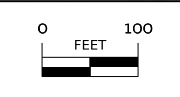


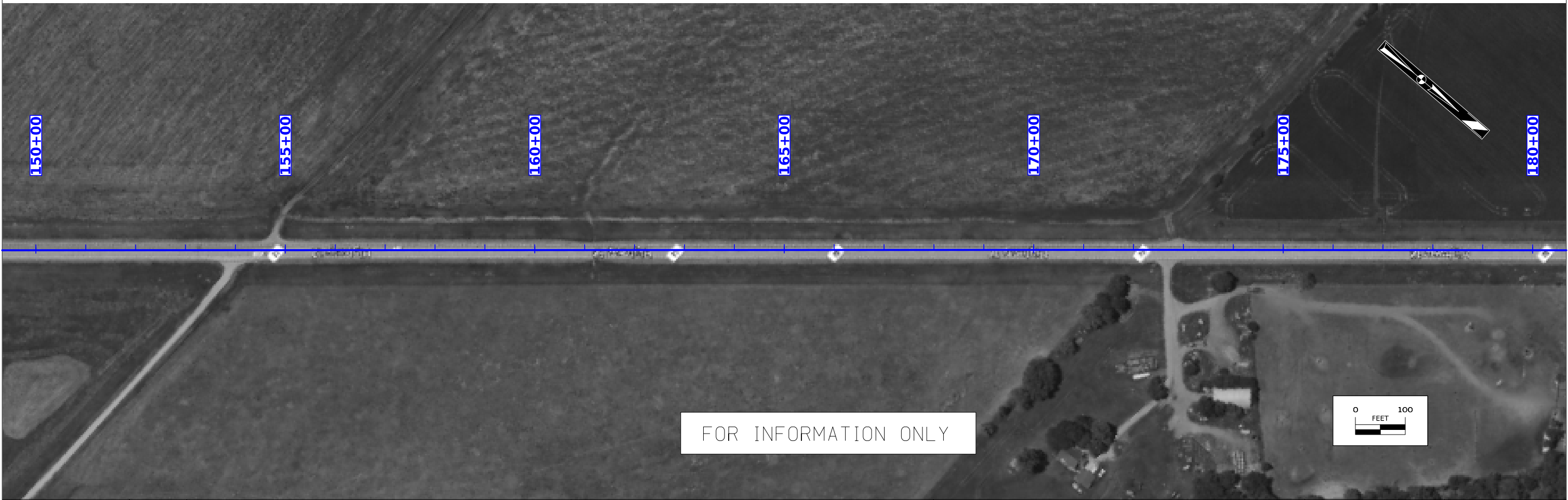


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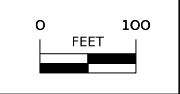
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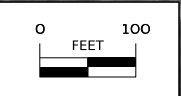
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FOR INFORMATION ONLY



FILE NO.	ENGLISH	DESIGN TEAM	DISTRICT 3	WOODBURY/PLYMOUTH COUNTY	PROJECT NUMBER	MP-012-3(718)10--76-97	SHEET NUMBER	RR.15
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FILE NO.	ENGLISH	DESIGN TEAM	DISTRICT 3	WOODBURY/PLYMOUTH COUNTY	PROJECT NUMBER	MP-012-3(718)10--76-97	SHEET NUMBER	RR.17
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