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PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

POCAHONTAS COUNTY

HMA Resurfacing with Milling

N Jct IA 7 to 0.35 mi S of IA 3 in Pocahontas

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



DESIGN DATA RURAL			
2027	AADT	2,900	V.P.D.
2047	AADT	3,907	V.P.D.
2047	DHV	—	V.P.H.
TRUCKS		17	%
Total			
Design ESALs		—	

REVISIONS		TOTAL
		44
PROJECT IDENTIFICATION NUMBER		
26-76-004-010		
PROJECT NUMBER		
STP-004-4(035)--2C-76		
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

07/07/2026

Printed or Typed Name

JUSTIN M. POTTORFF

My license renewal date is December 31, 2026

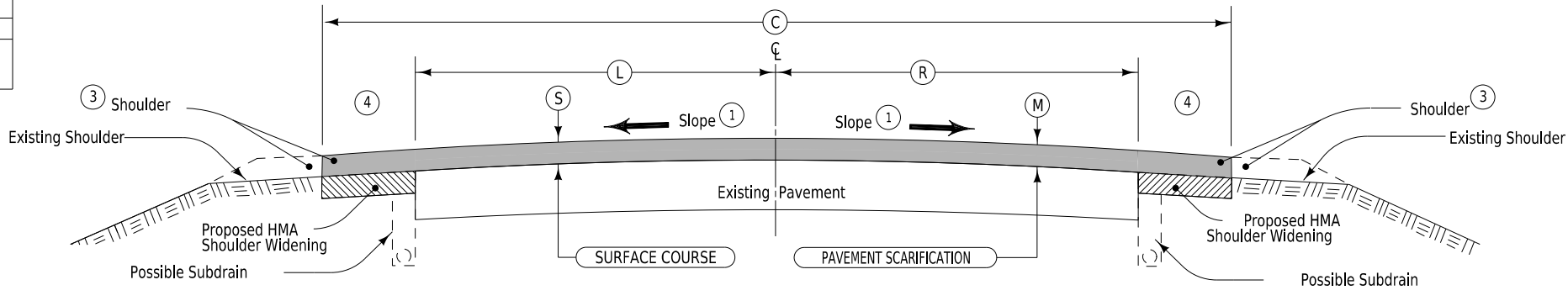
Pages or sheets covered by this seal:

ALL SHEETS

DESIGN RATES		
ITEM	RATE	QUANTITY
Surface Course	147 lbs./cu.ft	Tons
Tack Coat	0.05 gal./sq.yd.	Gal.
Scarification	145 lbs./cu.ft	Tons

2617A

Modified



- ① Match finished slope to existing pavement, except that the maximum allowable slope is 3.0%, minimum allowable slope is 2.0%. Section may be modified as directed by the Engineer through areas of special shaping.
Refer to tabulation listing of superelevated curves and Standard Road Plans for additional requirements through superelevated curves.
- ② Tack Coat estimated for 1 applications. Not a bid item.
- ③ Refer to paved shoulder typical 7151 and granular shoulder typical 7135.
- ④ Refer to auxiliary lane typical 2619.
- ⑤ Width of pavement scarification is L and R. Width of surface course is C.

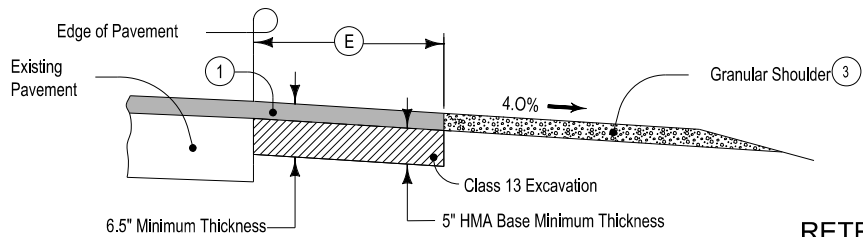
Location			M S	S S	L	R	C	Resurfacing Quantities					Remarks
								Per Station					
Road Identification	Station To Station		Tack Coat ②	Binder 64-34E+	Binder 58-28S	HI-Pro Surface	HMA Surface	Pavement Scarification					
			Inches	Inches	Feet	Feet	Feet	Gallons	Tons	Tons	Tons	SY	
IA 4	3+36	142+25	1.5	1.5	12	12	32	17.78	2.35		29.40	266.67	
IA 4	93+14.5	94+64.50	1.5	1.5	10	0	0	5.56		0.55		111.11	Refer to Typ. 2619S on Sheet B.3
IA 4	142+25	145+95	1.5	1.5	12	12	28	15.56	2.06		25.73	266.67	④C dimension calls out mainline and left shoulder, excludes right shoulder
IA 4	145+92	147+15	1.5	1.5	14	0	0	7.78		0.77		155.56	Refer to Typ. 2619S on Sheet B.3
IA 4	147+40	248+75	1.5	1.5	12	12	32	17.78	2.35		29.4	266.67	
IA 4	248+75	253+08	1.5	1.5	12	12	28	15.56	2.06		25.73	266.67	④C dimension calls out mainline and right shoulder, excludes left shoulder
IA 4	248+95	250+05	1.5	1.5	0	8	0	4.44		0.44		88.89	Refer to Typ. 2619S on Sheet B.3
IA 4	253+08	496+81.53	1.5	1.5	12	12	32	17.78	2.35		29.4	266.67	
IA 4	459+17.2	460+67.2	1.5	1.5	0	10	0	5.56		0.55		111.11	Refer to Typ. 2619S on Sheet B.3

TYPICAL CROSS SECTION
HMA RESURFACING

DESIGN RATES		
ITEM	RATE	QUANTITY
Base Widening	145 lbs./cu.ft	Tons
Tack Coat	0.05 gal./sq.yd.	Gal.

7151

Modified



- ① HMA and tack coat quantities above the HMA base are included with mainline quantities.
- ② Bid Items. Per side per station
- ③ Refer to Typical 7135 on this sheet for Granular Shoulder details.
- ④ Class 13 excavation depth is estimated at 5" based on existing condition of granular shoulder, which has edge rutting and a high slope.

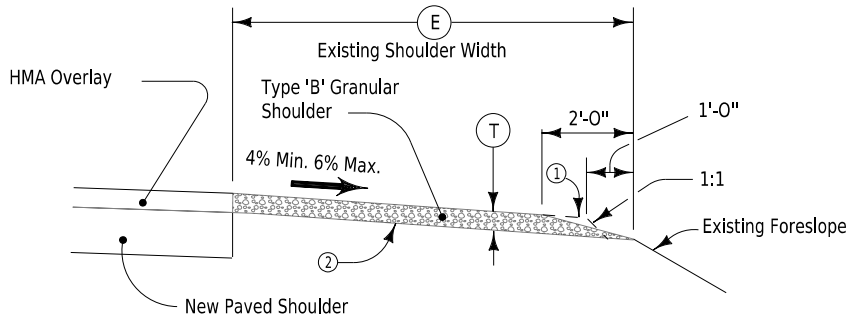
TYPICAL SECTION
RETROFIT PAVED SHOULDER

Location				E	Quantities ②				Remarks
					Class 13 Excavation, Widening Cu. Yds.	HMA Base Widening Tons	Binder 58-28S Tons	Blade & Shape STA	
Road Identification	Station To Station		Side	Feet					
IA 4	3+36	142+25	Rt	4	6.17	12.08	0.73	1.00	
IA 4	142+25	147+40	Rt	0					Turn lane to CoRd. C56
IA 4	147+40	496+81.53	Rt	4	6.17	12.08	0.73	1.00	
IA 4	3+36	248+75	Lt	4	6.17	12.08	0.73	1.00	
IA 4	248+75	253+08	Lt	0					Turn lane to CoRd. C49
IA 4	253+08	496+81.53	Lt	4	6.17	12.08	0.73	1.00	

DESIGN RATES		
ITEM	RATE	QUANTITY
Granular Shoulder	140 lbs./cu.ft	Tons

7135

Modified



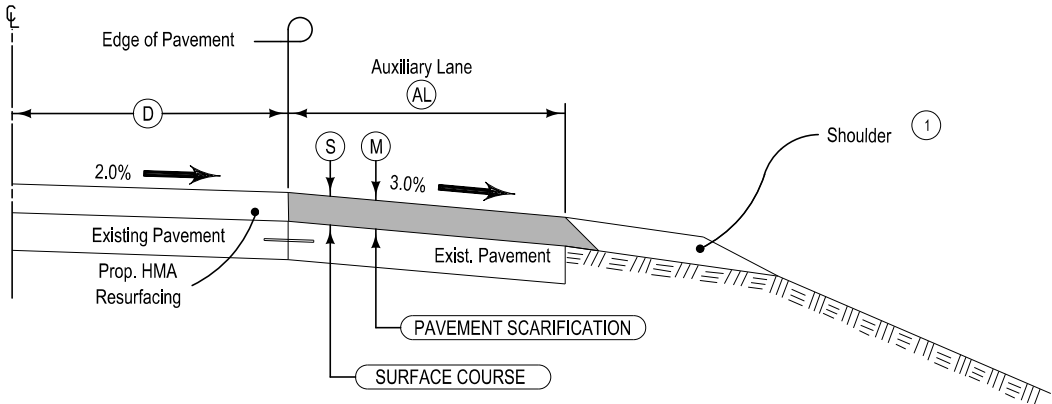
- ① Place and compact material to the dashed lines; then blade and shape to foreslope that portion above the solid line in the outer 2' and roll with loaded truck tire.
- ② Existing shoulder surface to be shaped to a uniform cross slope prior to placing granular shoulder material. Shape to ensure the thickness of the granular shoulder material is not less than the thickness of the resurfacing.
- ③ Per side per station.

TYPICAL SECTION
FOR TYPE 'B'
GRANULAR SHOULDER
ADJACENT TO HMA OVERLAY

LOCATION				T Inches	E Feet	TONS ③
ROAD IDENTIFICATION	STATION TO STATION		SIDE			
IA 4	3+36	142+03	Rt	2.0	6	7.00
IA 4	142+03	145+95	Rt	2.0	2	2.33
IA 4	145+95	496+81.53	Rt	2.0	6	7.00
IA 4	3+36	250+00	Lt	2.0	6	7.00
IA 4	250+00	253+08	Lt	2.0	2	2.33
IA 4	253+08	496+81.53	Lt	2.0	6	7.00

DESIGN RATES		
ITEM	RATE	QUANTITY
Surface Course	147 lbs./cu.ft.	Tons
Tack Coat	0.05 gal./sq.yd.	Gal.
Scarification	145 lbs./cu.ft.	Tons

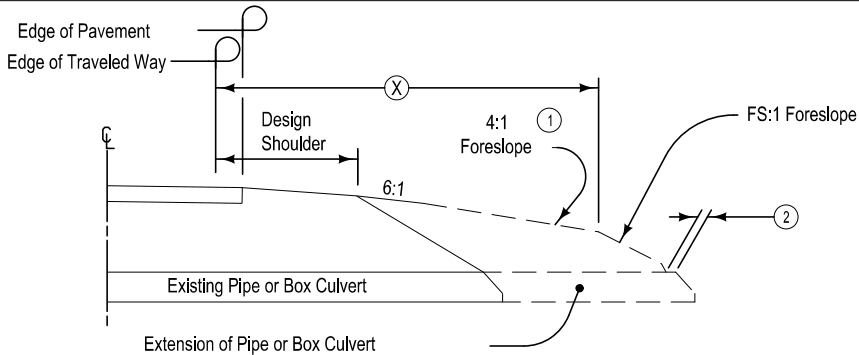
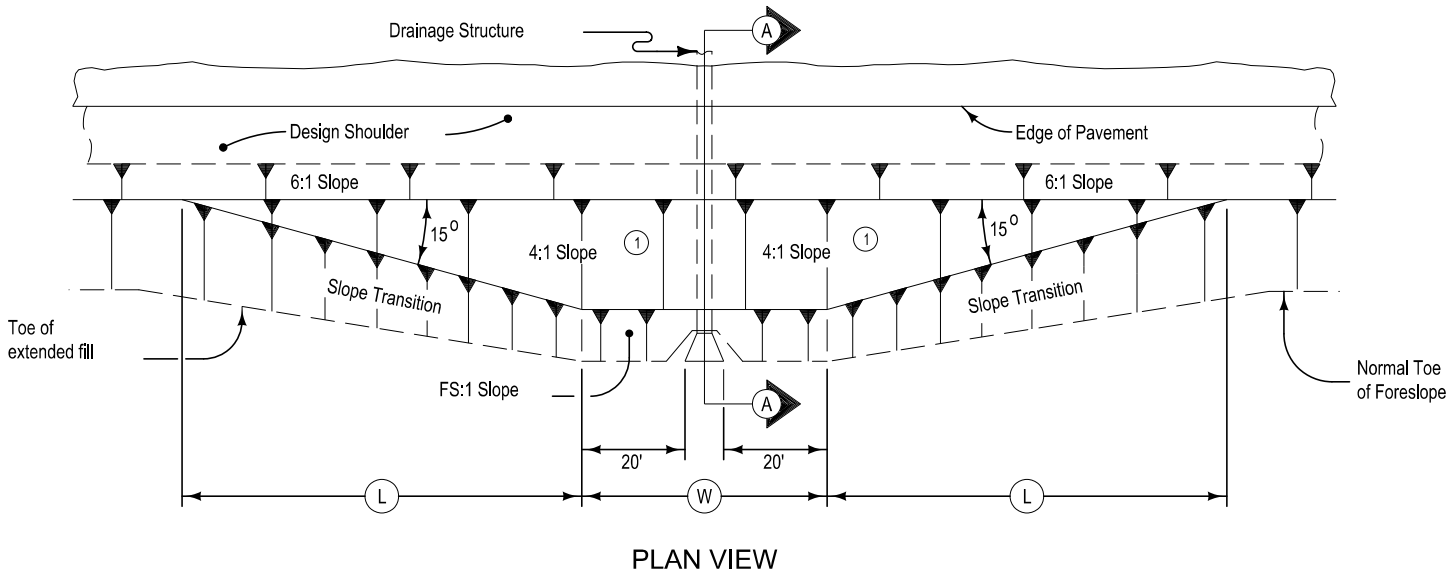
2619
10-15-13



- ① Refer to shoulder typicals
- ② Tack Coat estimated for 1 applications. Not a bid item.

TYPICAL HALF SECTION
HMA RESURFACING
EXISTING AUXILIARY LANE

Location				D	AL	S	M	Resurfacing Quantities				Remarks
								Tack Coat ②	Binder 58-28S	HMA Surface	Pavement Scarification	
Road Identification	Direction of Travel	Station To Station		Side	Feet	Feet	Inches	Gallons	Tons	Tons	SY	
IA 4	NB	142+25	143+45	Rt	12	6	1.5	4.00	0.40	6.62	80.00	Taper CoRd C56
IA 4	NB	143+45	145+95	Rt	12	12	1.5	16.67	1.65	27.56	333.33	Full width CoRd C56
IA 4	SB	250+00	251+80	Lt	12	12	1.5	12.00	1.19	19.85	240.00	Full width CoRd C49
IA 4	SB	251+80	253+08	Lt	12	6	1.5	4.27	0.42	7.06	85.33	Taper CoRd C49



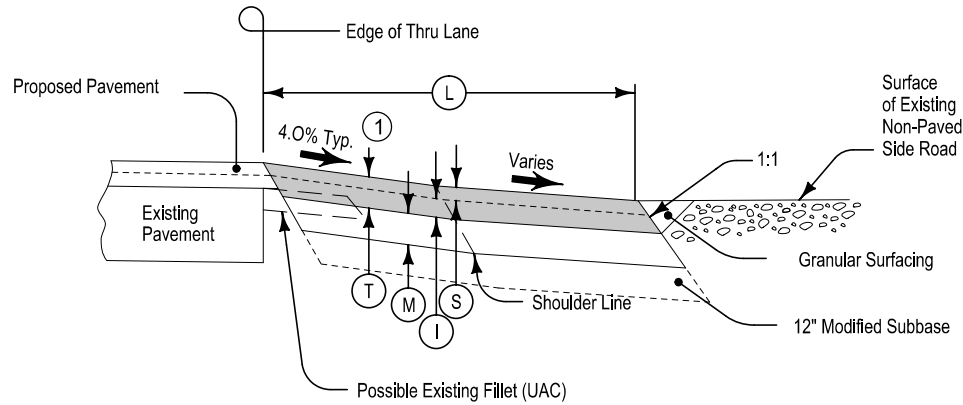
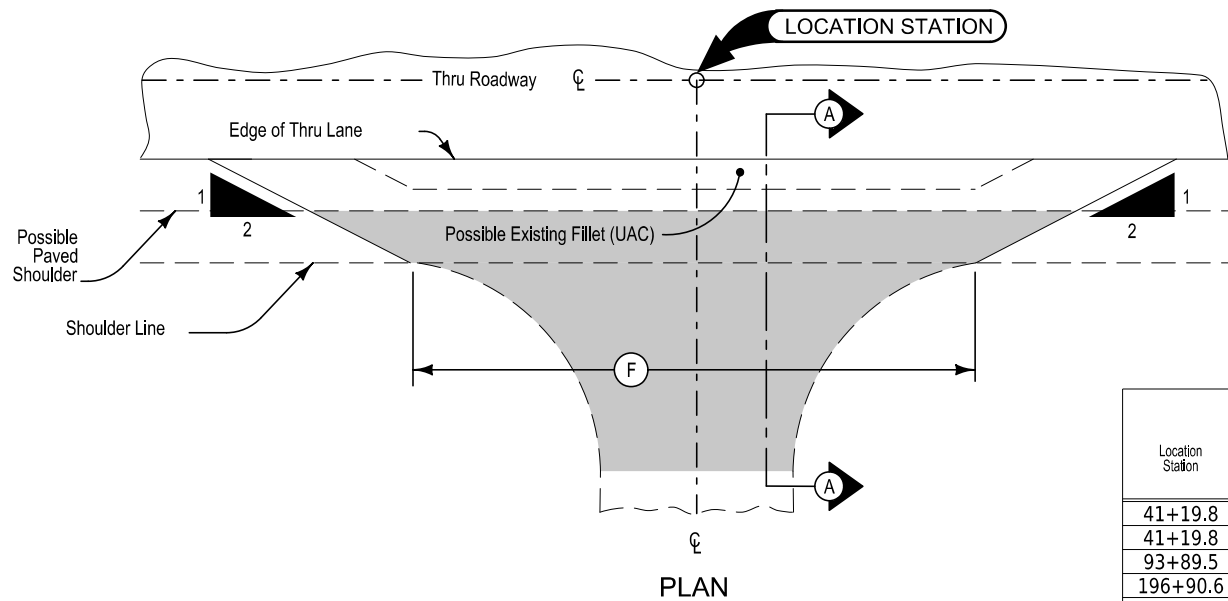
- Notes:
- At locations where an extended or newly constructed drainage structure extends beyond the normal foreslope cover, flatten the foreslope as indicated so as to cover the structure. Minimum earth cover is 6".
 - ① Slope may be flatter than 6:1.
 - ② 6" Minimum for pipe installations or to top of headwall on R.C.B.
 - W = Pipe or R.C.B. opening width plus 20 feet each side.

BARNROOF FORESLOPE
AT DRAINAGE STRUCTURE

STRUCTURE LOCATION		W	L	X	FS
STATION	SIDE	Feet	Feet	Feet	
14+59	B	44	52	25	3
25+19	B	43	52	25	3
76+55	B	42	45	23	3
119+60	B	42	45	23	3
180+63	B	42	45	23	3
348+70	B	46	52	28	3

DESIGN RATES		
ITEM	RATE	QUANTITY
Surface Course	147 lbs./cu.ft	Tons
Inter. Course	147 lbs./cu.ft	Tons
Base Course	145 lbs./cu.ft	Tons
Tack Coat	0.05 gal/sq.yd.	Gal.

7149
04-15-14



Special shaping of existing surface prior to placement of fillet or fillet extension may be required by the Engineer and is incidental to other work on the project.

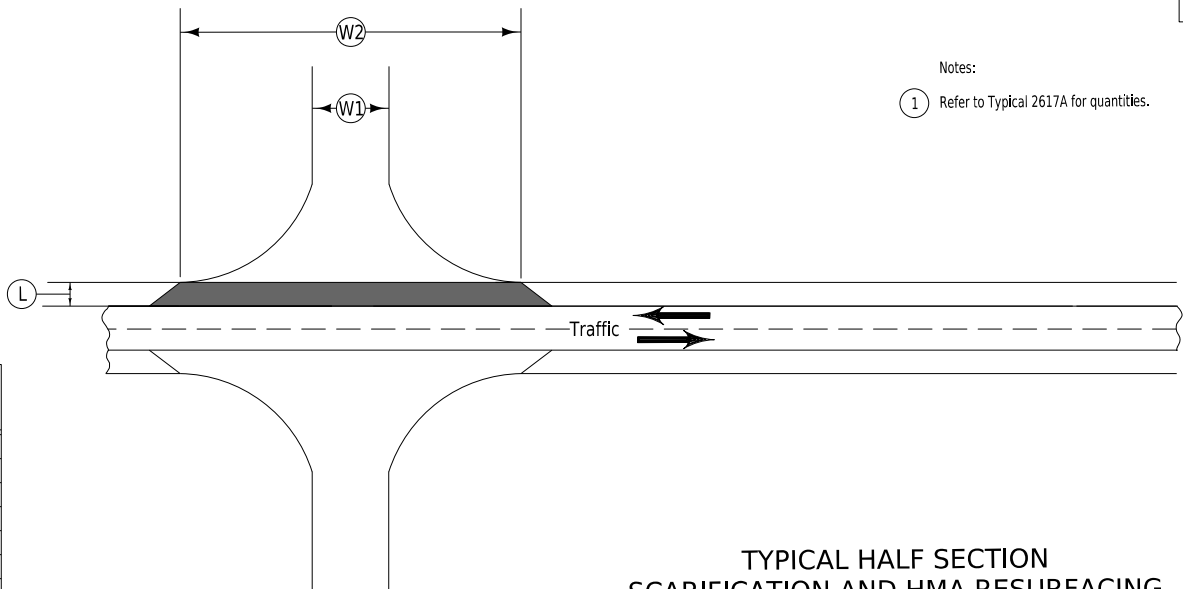
- ① Match existing slope.
- ② Tack Coat estimated for 2 applications.

FILLET EXTENSION FOR NON-PAVED SIDE ROADS
Division 2

Location Station	Ⓕ	Ⓖ	Ⓜ	Ⓜ	Ⓢ	Ⓛ (50' min.)	Quantities Per Location										Remarks
							Tack Coat ②	Binder Surface 58-28S	Binder Int. 58-28S	Binder Base 58-28S	HMA Surface	HMA Intermediate	HMA Base	Modified Subbase	Class 13 Excavation		
							Gallons	Tons	Tons	Tons	Tons	Tons	Tons	CY	CY		
41+19.8	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	610th St. Rt.	
41+19.8	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	610th St. Lt.	
93+89.5	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	600th St. Rt.	
196+90.6	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	580th St. Rt.	
301+96.7	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	560th St. Rt.	
301+96.7	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	560th St. Lt.	
354+79.0	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	550th St. Rt.	
354+79.0	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	550th St. Lt.	
407+14.1	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	540th St. Rt.	
407+14.1	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	540th St. Lt.	
459+92.2	75	3.0	7.0	1.5	1.5	50	102.23	1.12	1.12	5.18	18.78	18.78	86.47	78.09	143.18	530th St. Lt.	

2619S
Modified

- Notes:
- ① Refer to Typical 2617A for quantities.



TYPICAL HALF SECTION
SCARIFICATION AND HMA RESURFACING
EXISTING PAVED SIDE ROAD INTERSECTION

Location				Ⓕ [Ⓕ] Feet	Ⓕ1 ^{Ⓕ1} Feet	Ⓕ2 ^{Ⓕ2} Feet
Road Identification	Station To Station		Side			
IA 4 @ 600th St.	93+14.5	94+64.5	Lt	10	22	75
IA 4 @ CoRd, C56	145+92	147+15	Lt	14	22	75
IA 4 @ CoRd, C49	248+95	250+05	Rt	8	22	105
IA 4 @ 530th St.	459+17.2	460+67.2	Rt	10	22	75

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Division 1 : Iowa DOT
Division 2 : Pocahontas County

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
1	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	177		177	Refer to Tab. 104-13 & 102-3 on C Sheets.
2	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY		1,575	1,575	Refer to Typical 7149 on B Sheets. Dispose of excess material according to Article 1106.07 of the current specifications.
3	2115-0100000	MODIFIED SUBBASE	CY		859.08	859.08	Refer to Typical 7149 on B Sheets.
4	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	6,875.71		6,875.71	Refer to Typical 7135 on B Sheets.
5	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	9.4		9.4	This bid item includes: 9.4 miles of two lane roadway
6	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	559.8		559.8	Refer to Tab. 102-6C on C Sheets.
7	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	55		55	Refer to Tab. 102-6C on C Sheets.
8	2212-5075001	HOT MIX ASPHALT SURFACE PATCHES	TON	47		47	Estimated at 5 Tons per mile.
9	2213-2713300	EXCAVATION, CLASS 13, FOR WIDENING	CY	6,033.52		6,033.52	Refer to Typical 7151 on B Sheets. The top 2" of the material from the Class 13 excavation is to be placed and shaped on the remaining shoulder outside the Class 13 trench. This work is to be paid as Blading and Shaping Shoulder Material.
10	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS	SY	132,949.19		132,949.19	Refer to Typical 2617A & 2619 on B Sheets.
11	2214-7450050	BLADING AND SHAPING SHOULDER MATERIAL	STA	743.18		743.18	Refer to Typical 7151 on B Sheets.
12	2303-0003380	HOT MIX ASPHALT MIXTURE THIN LIFT SURFACE COURSE, 3/8 IN. MIX	TON	14,462.82		14,462.82	Refer to Typical 2617A on B Sheets.
13	2303-1031750	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 3/4 IN. MIX	TON	11,810.62	951.19	12,761.81	Refer to Typical 7151 & 7149 on B Sheets.
14	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON		206.63	206.63	Refer to Typical 7149 on B Sheets.
15	2303-1033500	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, NO SPECIAL FRICTION REQUIREMENT	TON	112.55	206.63	319.18	Refer to Typical 2617A, 2619, & 7149 on B Sheets.
16	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	715.39	81.86	797.25	Estimated at 6% of HMA Standard Surface and Base.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
17	2303-1264347	ASPHALT BINDER, PG 64-34E+, EXTREMELY HIGH TRAFFIC, 90% ELASTIC RECOVERY	TON	1,157.03		1,157.03	Estimated at 8% of Hi-Pro Surface.
18	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS	1		1	
19	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)	EACH	84,435		84,435	
20	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	23		23	Refer to Tab. 104-13 on C Sheets.
21	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	6		6	Refer to Tab. 104-13 on C Sheets.
22	2416-0100036	APRONS, CONCRETE, 36 IN. DIA.	EACH	2		2	
23	2416-0100048	APRONS, CONCRETE, 48 IN. DIA.	EACH	2		2	Refer to Tab. 104-13 on C Sheets & VW Sheets.
24	2416-0102248	APRON, LOW CLEARANCE CONCRETE, EQUIVALENT DIAMETER 48 IN.	EACH	4		4	Refer to Tab. 104-13 on C Sheets & VW Sheets. 48" equivalent size needed is 59" x 36" Arch RCP.
25	2416-1160018	CULVERT, CONCRETE ENTRANCE PIPE, 18 IN. DIA.	LF	60		60	Refer to Tab. 102-3 on C Sheets.
26	2416-1160024	CULVERT, CONCRETE ENTRANCE PIPE, 24 IN. DIA.	LF	42		42	
27	2416-1180030	CULVERT, CONCRETE ROADWAY PIPE, 30 IN. DIA.	LF	64		64	Refer to Tab. 104-13 on C Sheets.
28	2416-1180036	CULVERT, CONCRETE ROADWAY PIPE, 36 IN. DIA.	LF	24		24	
29	2416-1180048	CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA.	LF	26		26	Refer to Tab. 104-13 on C Sheets & VW Sheets.
30	2417-1040018	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 18 IN. DIA.	LF	12		12	Refer to Tab. 102-3 on C Sheets.
31	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	20,260		20,260	Refer to Tab. 104-09A on C Sheets.
32	2502-8221306	SUBDRAIN OUTLET, DR-306	EACH	40		40	
33	2503-0126348	STORM SEWER GRAVITY MAIN, TRENCHLESS, 2000D LOW CLEARANCE CONCRETE PIPE, EQUIVALENT DIAMETER 48 IN.	LF	128		128	Refer to Tab. 104-13 on C Sheets & VW Sheets. 48" equivalent size needed is 59" x 36" Arch RCP.
34	2506-4984000	FLOWABLE MORTAR	CY	17.8		17.8	Includes 17.8 cu.yds. for fill and abandon culvert. Refer to Tab. 110-9 on C Sheets and typical 4315 on Sheet B.4. Silt inside existing culverts need not be removed prior to placing flowable mortar.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
35	2527-9263155	PRE-CUT SYMBOLS AND LEGENDS, PREFORMED THERMOPLASTIC MARKING MATERIAL	EACH	4		4	Refer to Tab. 108-29 on C Sheets.
36	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	3,602.79		3,602.79	Refer to Tab. 108-22 on C Sheets.
37	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	991.35		991.35	
38	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	4		4	Refer to Tab. 108-29 on C Sheets.
39	2528-8445110	TRAFFIC CONTROL	LS	0.9	0.1	1	Refer to Traffic Control Plan on Tab. 108-23A on C Sheets.
40	2528-8445113	FLAGGERS	EACH	0		0	See Proposal.
41	2528-8445115	PILOT CARS	EACH	0		0	See Proposal.
42	2533-4980005	MOBILIZATION	LS	1		1	--
43	2548-0000100	MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA	972.78		972.78	Refer to Tab. 112-10 on C Sheets.
44	2548-0000110	ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL	1,069.2		1,069.2	
45	2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA	486.39		486.39	
46	2548-0000317	ENGINEERED EMULSION FOR FOG SEAL (CENTERLINE RUMBLE STRIPS)	SY	6,323.07		6,323.07	Refer to Tab. 112-10 on C Sheets. Refer to the Special Provision for Penetrating Engineered Fog Seal for more information.
47	2602-0000020	SILT FENCE	LF	140		140	Refer to Tab. 100-17 on RC Sheets & D3-EC1 on Sheet RU.1. The tabulation includes estimated locations for placement of "Silt Fence" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement.
48	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF	560		560	Refer to Tab. 100-18 on RC Sheets & D3-EC1 on Sheet RU.1. The tabulation includes estimated locations for placement of "Silt Fence for Ditch Checks" to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement. The engineer may adjust silt fence locations to fit field conditions.
49	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	560		560	This item is included for silt fence and silt fence for ditch check removal required for staging reasons, removal to allow for replacement (replacement to be paid separately), or for areas that have achieved 70% permanent growth. This item is included for silt fence and silt fence for ditch check removal. Remove silt fence and posts after mulching or vegetation is established and approved by the engineer.
50	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	560		560	This item is included for maintaining the new silt fence and silt fence ditch checks installed for the paving project and existing silt fence.

Item no.	Item Code	Item	Unit	Quantities			Estimate Reference Notes
				Estimated			
				Division 1	Division 2	Total	
51	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	320		320	Item is included for temporary perimeter sediment control, inlet protection, and water velocity reduction on slopes or at locations to be determined during construction. To be used in lieu of 20 in. dia. device, if necessary. Verify specific locations with the Engineer prior to beginning placement.
52	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	320		320	Refer to Tab. 100-19 on RC Sheets & D3-EC1 on Sheet RU.1. The tabulation includes estimated locations for placement of "Perimeter and Slope Sediment Control Device, 20 in. dia." to address erosion to be encountered during construction. Verify the specific locations with the Engineer prior to beginning placement.
53	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	320		320	Remove perimeter and slope sediment control device and posts after mulching or vegetation is established and approved by the engineer.

PROJECT DESCRIPTION		100_01D 8/15/22
This is a HMA Resurfacing with Milling project in Pocahontas County on IA 4 from the north junction IA 7 to 0.35 miles south of IA 3 in the City of Pocahontas. Other work includes adding paved shoulders, centerline and shoulder rumble strips, full-depth patching, subdrains, culvert extensions, and pavement markings. Iowa DOT is responsible for Division 1 costs. Pocahontas County is responsible for Division 2 costs.		

102_05
9/29/23

EXISTING PAVEMENT																					
Line No.	County	Route	Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Type	Project Number	Surface Type	Surface Depth (IN)	Base Type	Base Depth (IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Durability Class	Reinforcement Type	Remarks
1.0	Pocahontas	IA-4	NB	77.12	86.56	2023	M	MP-004-3(705)77--76-76	PCC												PCC patching
2.0	Pocahontas	IA-4	NB	77.12	86.56	2020	M	MP-000-3(734)0--76-00													HMA crack filling
3.0	Pocahontas	IA-4	NB	77.12	86.56	2016	S	STPN-004-4(24)--2J-76	MSS												
4.0	Pocahontas	IA-4	NB	77.12	86.56	1992		FN-4-4(15)--21-76	AAC	1.5	BAC	1.5					GILMORE CITY	C.LST.			
5.0	Pocahontas	IA-4	NB	77.12	86.56	1940		FA-421C	PC7	7.5							WALLINGFORD	GRAVEL	2		

105_04 4/21/26 STANDARDS The following Standards apply to construction work on this project.		
Number	Date	Title
DR-101	04-18-17	Pipe Culvert (Bedding and Backfill)
DR-121	04-18-23	Connected Pipe Joints
DR-122	10-18-16	Construction of Type 'C' Concrete Adaptors for Pipe Culvert Connections
DR-303	10-17-17	Subdrains (Longitudinal)
DR-306	10-17-23	Precast Concrete Headwall for Subdrain Outlets
EC-201	04-20-21	Silt Fence
EC-204	10-19-21	Perimeter, Slope and Ditch Check Sediment Control Devices
EW-501	10-17-23	Rural Entrance
EW-502	04-18-17	Safety Ramp
PM-110	10-15-24	Line Types
PM-111	04-21-20	Symbols and Legends
PM-115	04-15-25	Grooving for Line Types
PM-116	04-16-24	Grooving for Symbols and Legends
PM-521	10-15-24	Two-Lane Roadway with Right Turn Lanes
PR-103	10-21-25	Full Depth PCC Patch with Dowels
PR-202	10-21-14	Notches for Resurfacing (with or without Runout)
PV-3	10-15-24	Safety Edge
PV-12	04-16-24	Milled Shoulder Rumble Strips
PV-13	04-16-24	Milled Centerline Rumble Strips
PV-101	10-21-25	Joints
PV-202	04-21-20	Hot Mix Asphalt Resurfacing
PV-203	04-21-20	HMA Base Widening
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-214	04-18-23	Lane Closure with Flaggers for use with Pilot Car
TC-231	04-18-23	Slow Moving Vehicle Operating in the Traffic Lane
TC-233	10-17-17	Pavement Marking Operations Two-Lane

PROPOSED POSTED SPEED LIMIT					
Line No.	Roadway Identification	Station From	Station To	Proposed Posted Speed	Remarks
1.0	IA 4	3+36.00	489+48.00	over 45	55 MPH
2.0	IA 4	489+48.00	496+81.53	40-45	45 MPH

100_27
8/15/22

NOTCHES AND RUNOUTS FOR RESURFACING Refer to PR-201 and PR-202. (1) Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.									102_16 11/1/24
Line No.	Station	Type of Notch or Runout	S (IN)	I (IN)	DI (IN)	L (FT)	M (IN)	Pavement Scarification (SY) (1)	Remarks
1.0	3+36.00	Type N2	1.5				1.5		Mainline
2.0	93+89.50	Type N1	1.5			15.0	1.5	83.3	600th St
3.0	146+50.00	Type N1	1.5			15.0	1.5	83.3	590th St
4.0	249+50.60	Type N1	1.5			15.0	1.5	116.6	570th St
5.0	459+92.20	Type N1	1.5			15.0	1.5	83.3	530th St
6.0	496+81.53	Type N2	1.5				1.5		Mainline
Total:								366.5	

104_09A
5/6/24

LONGITUDINAL SUBDRAIN SHOULDER											
* Not a bid item.											
Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks
1.0	IA 4	102+70.00	107+70.00	Right	30.0	4.0	530.0	107+70.00	DR-306	32.7	
2.0	IA 4	107+70.00	112+70.00	Right	30.0	4.0	530.0	112+70.00	DR-306	32.7	
3.0	IA 4	112+70.00	117+70.00	Right	30.0	4.0	530.0	117+70.00	DR-306	32.7	
4.0	IA 4	117+70.00	119+50.00	Right	30.0	4.0	210.0	119+50.00	DR-306	13.0	
5.0	IA 4	132+00.00	137+00.00	Right	30.0	4.0	530.0	137+00.00	DR-306	32.7	
6.0	IA 4	137+00.00	142+00.00	Right	30.0	4.0	530.0	142+00.00	DR-306	32.7	
7.0	IA 4	147+50.00	152+50.00	Right	30.0	4.0	530.0	152+50.00	DR-306	32.7	
8.0	IA 4	152+50.00	157+50.00	Right	30.0	4.0	530.0	157+50.00	DR-306	32.7	
9.0	IA 4	157+50.00	159+00.00	Right	30.0	4.0	180.0	159+00.00	DR-306	11.1	
10.0	IA 4	180+70.00	185+70.00	Right	30.0	4.0	530.0	185+70.00	DR-306	32.7	
11.0	IA 4	185+70.00	190+70.00	Right	30.0	4.0	530.0	190+70.00	DR-306	32.7	
12.0	IA 4	190+70.00	195+70.00	Right	30.0	4.0	530.0	195+70.00	DR-306	32.7	
13.0	IA 4	195+70.00	200+70.00	Right	30.0	4.0	530.0	200+70.00	DR-306	32.7	
14.0	IA 4	200+70.00	205+70.00	Right	30.0	4.0	530.0	205+70.00	DR-306	32.7	
15.0	IA 4	205+70.00	210+70.00	Right	30.0	4.0	530.0	210+70.00	DR-306	32.7	
16.0	IA 4	210+70.00	215+70.00	Right	30.0	4.0	530.0	215+70.00	DR-306	32.7	
17.0	IA 4	215+70.00	220+70.00	Right	30.0	4.0	530.0	220+70.00	DR-306	32.7	
18.0	IA 4	220+70.00	225+70.00	Right	30.0	4.0	530.0	225+70.00	DR-306	32.7	
19.0	IA 4	225+70.00	230+00.00	Right	30.0	4.0	460.0	230+00.00	DR-306	28.4	
20.0	IA 4	275+00.00	280+00.00	Right	30.0	4.0	530.0	280+00.00	DR-306	32.7	
21.0	IA 4	280+00.00	285+00.00	Right	30.0	4.0	530.0	285+00.00	DR-306	32.7	
22.0	IA 4	285+00.00	290+00.00	Right	30.0	4.0	530.0	290+00.00	DR-306	32.7	
23.0	IA 4	290+00.00	295+00.00	Right	30.0	4.0	530.0	295+00.00	DR-306	32.7	
24.0	IA 4	295+00.00	300+00.00	Right	30.0	4.0	530.0	300+00.00	DR-306	32.7	
25.0	IA 4	300+00.00	305+00.00	Right	30.0	4.0	530.0	305+00.00	DR-306	32.7	
26.0	IA 4	305+00.00	310+00.00	Right	30.0	4.0	530.0	310+00.00	DR-306	32.7	
27.0	IA 4	310+00.00	315+00.00	Right	30.0	4.0	530.0	315+00.00	DR-306	32.7	
28.0	IA 4	315+00.00	320+00.00	Right	30.0	4.0	530.0	320+00.00	DR-306	32.7	
29.0	IA 4	320+00.00	325+00.00	Right	30.0	4.0	530.0	325+00.00	DR-306	32.7	
30.0	IA 4	325+00.00	330+00.00	Right	30.0	4.0	530.0	330+00.00	DR-306	32.7	
31.0	IA 4	330+00.00	335+00.00	Right	30.0	4.0	530.0	335+00.00	DR-306	32.7	
32.0	IA 4	335+00.00	340+00.00	Right	30.0	4.0	530.0	340+00.00	DR-306	32.7	
33.0	IA 4	340+00.00	345+00.00	Right	30.0	4.0	530.0	345+00.00	DR-306	32.7	
34.0	IA 4	345+00.00	350+00.00	Right	30.0	4.0	530.0	350+00.00	DR-306	32.7	
35.0	IA 4	350+00.00	355+00.00	Right	30.0	4.0	530.0	355+00.00	DR-306	32.7	
36.0	IA 4	355+00.00	360+00.00	Right	30.0	4.0	530.0	360+00.00	DR-306	32.7	
37.0	IA 4	360+00.00	365+00.00	Right	30.0	4.0	530.0	365+00.00	DR-306	32.7	
38.0	IA 4	365+00.00	370+00.00	Right	30.0	4.0	530.0	370+00.00	DR-306	32.7	
39.0	IA 4	370+00.00	375+00.00	Right	30.0	4.0	530.0	375+00.00	DR-306	32.7	
40.0	IA 4	375+00.00	378+00.00	Right	30.0	4.0	330.0	378+00.00	DR-306	20.4	
Total:							20260	1250.1			

DR-306 = 40

102_06C
4/21/26

FULL-DEPTH PATCHES																		
Line No.	Count	Station	Direction of Travel	Side	Length (FT)	Width (FT)	Patch Thickness (IN)	Patch Repair or Finish	PCC Patch Type	PCC Patch Quantity (SY)	Subbase Patches (PR-140) (SY)	Subbase Patch with 'EF' Joint (PR-101) (SY)	Patch Subdrain PR-101 or PR-140 (No.)	'CD' Joints (No.)	'CT' Joints (No.)	'EF' Joints PR-101 (No.)	Anchor Lugs Removal (No.)	Remarks
1.0	2	16+85.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
2.0	2	17+60.00	NB	Both	12.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	32.0								
3.0	2	22+07.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
4.0	1	25+12.00	NB	Right	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	10.7								
5.0	2	27+66.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
6.0	2	43+55.00	NB	Both	9.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	24.0								
7.0	2	51+10.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
8.0	2	86+06.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
9.0	2	100+10.00	NB	Both	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	21.3								
10.0	2	122+50.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
11.0	1	126+40.00	NB	Left	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	10.7								
12.0	2	128+20.00	NB	Both	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	21.3								
13.0	1	149+18.00	NB	Right	10.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	13.3								
14.0	2	157+31.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
15.0	2	178+10.00	NB	Both	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	21.3								
16.0	2	229+50.00	NB	Both	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	21.3								
17.0	2	233+10.00	NB	Both	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	21.3								
18.0	1	243+93.00	NB	Left	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	10.7								
19.0	1	251+16.00	NB	Right	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	10.7								
20.0	2	268+00.00	NB	Both	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	21.3								
21.0	2	270+78.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
22.0	2	331+16.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
23.0	1	344+00.00	NB	Left	10.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	13.3								
24.0	1	344+00.00	NB	Right	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	8.0								
25.0	2	363+36.00	NB	Both	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	21.3								
26.0	2	363+80.00	NB	Both	12.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	32.0								
27.0	2	368+60.00	NB	Both	12.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	32.0								
28.0	2	446+70.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
29.0	2	465+96.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
30.0	2	477+35.00	NB	Both	6.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	16.0								
31.0	2	479+75.00	NB	Both	8.0	12.0	10.5	Repair	PCC With Dowels (PR-103)	21.3								
Total:	55	559.8																

102_03
10/15/24

ACCESS POINTS AND SAFETY RAMPS
Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe.
(1) Refer to MI-210.
(2) Refer to EW-501.
(3) Refer to EW-501 or EW-502.
*Predetermined for access point not constructed with this project.

Line No.	Station	Side	Access Type	Descriptor	Case	Curb Type	Curb Length (1) (LF)	Width (FT)	PR (1) (2) (FT)	SR (2) (FT)	Pipe Culvert (H) (3) (FT)	Pipe Culvert Size (3) (IN)	Culvert Length (3) (LF)	Pipe Culvert Lt. (3) (LF)	Pipe Culvert Rt. (3) (LF)	Culvert Aprons (3) (No.)	Driveway Surface Type	Driveway Surface Area (SY)	Driveway Surfacing Material (TON)	Remarks
1.0	7+80.00	Left	D					30.0	30.0								Granular	133.3		Currently 4.2:1 slope, extend to 10:1
2.0	15+03.00	Right	D					15.0	15.0			24.0	36.0	18.00	18.00		Other	66.7		Currently 2.35:1 slope, extend to 8:1
3.0	28+13.00	Right	D					15.0	15.0			24.0	36.0	18.00	18.00		Other	66.7		Currently 2.96:1 slope, extend to 8:1
4.0	78+00.00	Left	D					30.0	30.0			18.0	60.0	30.00	30.00		Granular	133.3		Currently 3.3:1 slope, extend to 8:1
5.0	108+98.00	Left	D					20.0	20.0			18.0	36.0	18.00	18.00		Granular	88.9		Currently 2.67:1 slope, extend to 8:1
6.0	126+97.00	Right	D					15.0	15.0								Other	66.7		Currently 4.2:1 slope, extend to 10:1
7.0	172+81.00	Left	D					15.0	15.0			18.0	36.0	18.00	18.00		Other	66.7		Currently 2.42:1 slope, extend to 8:1
8.0	197+02.00	Left	D	Safety Ramp				36.0	15.0			24.0	42.0	18.00			Other	160.0		Widen 12' on the south side of the ramp, 8:1 slope
9.0	217+65.00	Left	D					15.0	15.0			18.0	36.0	18.00	18.00		Granular	66.7		Currently 3.64:1 slope, extend to 8:1
10.0	217+62.00	Right	D					15.0	15.0			18.0	36.0	18.00	18.00		Granular	66.7		Currently 4:1 slope, extend to 8:1
11.0	368+83.00	Left	D					15.0	15.0			18.0	36.0	18.00	18.00		Other	66.7		Currently 4:1 slope, extend to 8:1
12.0	473+21.00	Left	D					15.0	15.0								Other	66.7		Currently 4:1 slope, extend to 10:1

24" RCP extensions : 42 (LF)
18" RCP extensions : 60 (LF)
18" CMP extensions : 12 (LF)
Embankment in place : 125 (CY)

104_13
11/17/24

FORESLOPE FLATTENING AND DRAINAGE STRUCTURES BY ROAD CONTRACTOR (MAINLINE PIPES)																						
Refer to Standard Road Plans DR-121, DR-122, and DR-213.																						
* Not a bid item																						
Line No.	Location	Existing Type of Culvert	New Size of Culvert (IN)	New Type of Culvert	Length of New Construction (LF)	Flow Line Elevation Left	Flow Line Elevation Right	Dimension Total Left (LF)	Dimension Total Right (LF)	Dimension Extension Left (LF)	Dimension Extension Right (LF)	New Apron In (No.)	New Apron Out (No.)	Apron Guard DR-213* (No.)	Type 'C' Connection DR-122* (Type)	Type 'C' Connection DR-122* (No.)	Connected Pipe Joint DR-121* (Type)	Embank.- In-Place (CY)	Class 20 (CY)	Remarks		
3.0	76+55.00	RCB	30.0	RCP	20.0	1234.50	1233.80	18.15	14.15	12.00	8.00	1	1		C-2	2	Type 3	6.0	2.0	2'x2'x28.0' Conc Box Culv. 21.3'Lt 23.7'Rt		
4.0	119+60.00	RCB	30.0	RCP	24.0	1216.30	1216.10	18.15	18.15	12.00	12.00	1	1		C-2	2	Type 3	7.0	2.0	2'x2'x28.1' Conc Box Culv. 19.7'Lt 20.4'Rt		
5.0	180+63.00	RCB	30.0	RCP	20.0	1214.40	1214.40	18.15	14.15	12.00	8.00	1	1		C-2	2	Type 3	6.0	2.0	2'x2'x28.1' Conc Box Culv. 21.6'Lt 24.5'Rt		
New Size of Culvert (IN) 30.0:											36	28	3	3					19	6		
2.0	25+19.00	RCB	36.0	RCP	24.0	1216.40	1216.20	20.00	20.00	12.00	12.00	1	1		C-2	2	Type 3	7.0	3.0	3'x2-1/2'x28.1' Conc Box Culv. 21.5'Lt 21.6'Rt		
New Size of Culvert (IN) 36.0:											12	12	1	1					7	3		
1.0	14+55.68	RCB	48.0	RCP	26.0	1234.28	1234.07	20.00	22.00	12.00	14.00	1	1		C-2	2	Type 3	8.0	4.0	See Sheet VW.1		
New Size of Culvert (IN) 48.0:											12	14	1	1					8	4		
6.0	348+47.00		59.0	LCP	64.0	1234.62	1234.49	35.96	44.04	27.96	36.04	1	1					9.0	5.0	See Sheet VW.2		
7.0	348+55.00		59.0	LCP	64.0	1234.62	1234.49	35.96	44.04	27.96	36.04	1	1					9.0	5.0	See Sheet VW.2		
New Size of Culvert (IN) 59.0:											55.92	72.08	2	2					18	10		
Total:																						

CULVERT ABANDONMENT Refer to Details 4315 and 4316 * Not a bid item						
Line No.	Station	Description	Flowable Mortar (CY)	Granular Backfill* (TON)	4" Perforated Subdrain* (LF)	Remarks
1.0	348+69.70	6'x2'x40.0' Conc. Box culv.	17.8	0.001	16.0	See Sheet B.4

110_09
8/15/22

PAVEMENT MARKING LINE TYPES

108_22
11/25/25

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17 BCY6: Broken Centerline (Yellow) @ 0.25 BLC6: Broken Line Contrast (White/Black) @ 0.50 BLW4: Broken Lane Line (White) @ 0.17 BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00 CHW8: Channelizing Line (White) @ 1.33 CHW10: Channelizing Line (White) @ 1.67 CHY8: Channelizing Line (Yellow) @ 1.33 CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00 DCY4: Double Centerline (Yellow) @ 1.34 DCY6: Double Centerline (Yellow) @ 2.00 DDY4: Double Dotted Line (Yellow) @ 0.44 DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22 DLW6: Dotted Line (White) @ 0.33 DLY4: Dotted Line (Yellow) @ 0.22 DLY6: Dotted Line (Yellow) @ 0.33 ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00 ELY4: Edge Line Left (Yellow) @ 0.67 ELY6: Edge Line Left (Yellow) @ 1.00 LDW8: Lane Drop (White) @ 0.33 LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00 NPY4: No Passing Zone Line (Yellow) @ 0.84 NPY6: No Passing Zone Line (Yellow) @ 1.25 RLW4: Ramp Edge Line Right (White) @ 0.67 RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67 RLY6: Ramp Edge Line Left (Yellow) @ 1.00 SLW2: Stop Line (White) @ 4.00 SLW4: Solid Lane Line (White) @ 0.67 SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16 SPW6: Sloped Curb 6" (White) @ 2.28 SPY4: Sloped Curb 4" (Yellow) @ 2.16 SPY6: Sloped Curb 6" (Yellow) @ 2.28 STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03 YLW2: Yield Line (White) @ 1.15

Line No.	Road ID	Station From	Station To	Line Length (STA)	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY6 (STA)	BCY6 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	SLW6 (STA)	SLW6 Factored (STA)	Remarks
1.0	IA 4	3+36.00	5+69.00	233.00	Both	Waterborne/Solvent Paint	X	X	X	No				2.33	4.66	4.66	4.66					Temporary - Milling
2.0	IA 4	5+69.00	14+24.00	855.00	Both	Waterborne/Solvent Paint	X	X	X	No						17.10	17.10	8.55	10.69			Temporary - Milling
3.0	IA 4	14+24.00	58+18.00	4394.00	Both	Waterborne/Solvent Paint	X	X	X	No		43.94	10.98			87.88	87.88					Temporary - Milling
4.0	IA 4	58+18.00	74+75.00	1657.00	Both	Waterborne/Solvent Paint	X	X	X	No						33.14	33.14	16.57	20.71			Temporary - Milling
5.0	IA 4	74+75.00	77+46.00	271.00	Both	Waterborne/Solvent Paint	X	X	X	No				2.71	5.42	5.42	5.42					Temporary - Milling
6.0	IA 4	77+46.00	79+81.00	235.00	Both	Waterborne/Solvent Paint	X	X	X	No						4.70	4.70	2.35	2.94			Temporary - Milling
7.0	IA 4	79+81.00	83+42.00	361.00	Both	Waterborne/Solvent Paint	X	X	X	No		3.61	0.90			7.22	7.22					Temporary - Milling
8.0	IA 4	83+42.00	88+53.00	511.00	Both	Waterborne/Solvent Paint	X	X	X	No						10.22	10.22	5.11	6.39			Temporary - Milling
9.0	IA 4	88+53.00	146+83.00	5830.00	Both	Waterborne/Solvent Paint	X	X	X	No		58.30	14.57			116.60	116.60			1.17	1.17	Temporary - Milling
10.0	IA 4	146+83.00	152+75.00	592.00	Both	Waterborne/Solvent Paint	X	X	X	No						11.84	11.84	5.92	7.40			Temporary - Milling
11.0	IA 4	152+75.00	159+51.00	676.00	Both	Waterborne/Solvent Paint	X	X	X	No		6.76	1.69			13.52	13.52					Temporary - Milling
12.0	IA 4	159+51.00	168+66.00	915.00	Both	Waterborne/Solvent Paint	X	X	X	No						18.30	18.30	9.15	11.44			Temporary - Milling
13.0	IA 4	168+66.00	171+31.00	265.00	Both	Waterborne/Solvent Paint	X	X	X	No				2.65	5.30	5.30	5.30					Temporary - Milling
14.0	IA 4	171+31.00	180+71.00	940.00	Both	Waterborne/Solvent Paint	X	X	X	No						18.80	18.80	9.40	11.75			Temporary - Milling
15.0	IA 4	180+71.00	464+30.00	28359.00	Both	Waterborne/Solvent Paint	X	X	X	No		283.59	70.90			567.18	567.18			1.49	1.49	Temporary - Milling
16.0	IA 4	464+30.00	481+78.00	1748.00	Both	Waterborne/Solvent Paint	X	X	X	No						34.96	34.96	17.48	21.85			Temporary - Milling
17.0	IA 4	481+78.00	496+82.00	1504.00	Both	Waterborne/Solvent Paint	X	X	X	No		15.04	3.76			30.08	30.08					Temporary - Milling
18.0																						
19.0	IA 4	3+36.00	5+69.00	233.00	Both	Waterborne/Solvent Paint	X	X	X	No				2.33	4.66	4.66	4.66					Temporary - After Surface Course
20.0	IA 4	5+69.00	14+24.00	855.00	Both	Waterborne/Solvent Paint	X	X	X	No						17.10	17.10	8.55	10.69			Temporary - After Surface Course
21.0	IA 4	14+24.00	58+18.00	4394.00	Both	Waterborne/Solvent Paint	X	X	X	No		43.94	10.98			87.88	87.88					Temporary - After Surface Course
22.0	IA 4	58+18.00	74+75.00	1657.00	Both	Waterborne/Solvent Paint	X	X	X	No						33.14	33.14	16.57	20.71			Temporary - After Surface Course
23.0	IA 4	74+75.00	77+46.00	271.00	Both	Waterborne/Solvent Paint	X	X	X	No				2.71	5.42	5.42	5.42					Temporary - After Surface Course
24.0	IA 4	77+46.00	79+81.00	235.00	Both	Waterborne/Solvent Paint	X	X	X	No						4.70	4.70	2.35	2.94			Temporary - After Surface Course
25.0	IA 4	79+81.00	83+42.00	361.00	Both	Waterborne/Solvent Paint	X	X	X	No		3.61	0.90			7.22	7.22					Temporary - After Surface Course
26.0	IA 4	83+42.00	88+53.00	511.00	Both	Waterborne/Solvent Paint	X	X	X	No						10.22	10.22	5.11	6.39			Temporary - After Surface Course
27.0	IA 4	88+53.00	146+83.00	5830.00	Both	Waterborne/Solvent Paint	X	X	X	No		58.30	14.57			116.60	116.60			1.17	1.17	Temporary - After Surface Course
28.0	IA 4	146+83.00	152+75.00	592.00	Both	Waterborne/Solvent Paint	X	X	X	No						11.84	11.84	5.92	7.40			Temporary - After Surface Course
29.0	IA 4	152+75.00	159+51.00	676.00	Both	Waterborne/Solvent Paint	X	X	X	No		6.76	1.69			13.52	13.52					Temporary - After Surface Course
30.0	IA 4	159+51.00	168+66.00	915.00	Both	Waterborne/Solvent Paint	X	X	X	No						18.30	18.30	9.15	11.44			Temporary - After Surface Course
31.0	IA 4	168+66.00	171+31.00	265.00	Both	Waterborne/Solvent Paint	X	X	X	No				2.65	5.30	5.30	5.30					Temporary - After Surface Course
32.0	IA 4	171+31.00	180+71.00	940.00	Both	Waterborne/Solvent Paint	X	X	X	No						18.80	18.80	9.40	11.75			Temporary - After Surface Course
33.0	IA 4	180+71.00	464+30.00	28359.00	Both	Waterborne/Solvent Paint	X	X	X	No		283.59	70.90			567.18	567.18			1.49	1.49	Temporary - After Surface Course
34.0	IA 4	464+30.00	481+78.00	1748.00	Both	Waterborne/Solvent Paint	X	X	X	No						34.96	34.96	17.48	21.85			Temporary - After Surface Course
35.0	IA 4	481+78.00	496+82.00	1504.00	Both	Waterborne/Solvent Paint	X	X	X	No		15.04	3.76			30.08	30.08					Temporary - After Surface Course
36.0																						
37.0	IA 4	3+36.00	5+69.00	233.00	Center	Waterborne/Solvent Paint		X		No				2.33	4.66							Permanent - After Rumble Strips
38.0	IA 4	5+69.00	14+24.00	855.00	Center	Waterborne/Solvent Paint		X		No								8.55	10.69			Permanent - After Rumble Strips
39.0	IA 4	14+24.00	58+18.00	4394.00	Center	Waterborne/Solvent Paint		X		No		43.94	10.98									Permanent - After Rumble Strips
40.0	IA 4	58+18.00	74+75.00	1657.00	Center	Waterborne/Solvent Paint		X		No								16.57	20.71			Permanent - After Rumble Strips
41.0	IA 4	74+75.00	77+46.00	271.00	Center	Waterborne/Solvent Paint		X		No				2.71	5.42							Permanent - After Rumble Strips
42.0	IA 4	77+46.00	79+81.00	235.00	Center	Waterborne/Solvent Paint		X		No								2.35	2.94			Permanent - After Rumble Strips
43.0	IA 4	79+81.00	83+42.00	361.00	Center	Waterborne/Solvent Paint		X		No		3.61	0.90									Permanent - After Rumble Strips

PAVEMENT MARKING LINE TYPES

108_22
11/25/25

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNY6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.

BCY4: Broken Centerline (Yellow) @ 0.17	BCY6: Broken Centerline (Yellow) @ 0.25	BLC6: Broken Line Contrast (White/Black) @ 0.50	BLW4: Broken Lane Line (White) @ 0.17	BLW6: Broken Lane Line (White) @ 0.25
CBW6: Crosswalk Bar (White) @ 10.00	CHW8: Channelizing Line (White) @ 1.33	CHW10: Channelizing Line (White) @ 1.67	CHY8: Channelizing Line (Yellow) @ 1.33	CHY10: Channelizing Line (Yellow) @ 1.67
CLW6: Crosswalk Line (White) @ 2.00	DCY4: Double Centerline (Yellow) @ 1.34	DCY6: Double Centerline (Yellow) @ 2.00	DDY4: Double Dotted Line (Yellow) @ 0.44	DDY6: Double Dotted Line (Yellow) @ 0.67
DLW4: Dotted Line (White) @ 0.22	DLW6: Dotted Line (White) @ 0.33	DLY4: Dotted Line (Yellow) @ 0.22	DLY6: Dotted Line (Yellow) @ 0.33	ELW4: Edge Line Right (White) @ 0.67
ELW6: Edge Line Right (White) @ 1.00	ELY4: Edge Line Left (Yellow) @ 0.67	ELY6: Edge Line Left (Yellow) @ 1.00	LDW8: Lane Drop (White) @ 0.33	LDW10: Lane Drop (White) @ 0.42
MNY6: Median Nose (Yellow) @ 1.00	NPY4: No Passing Zone Line (Yellow) @ 0.84	NPY6: No Passing Zone Line (Yellow) @ 1.25	RLW4: Ramp Edge Line Right (White) @ 0.67	RLW6: Ramp Edge Line Right (White) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67	RLY6: Ramp Edge Line Left (Yellow) @ 1.00	SLW2: Stop Line (White) @ 4.00	SLW4: Solid Lane Line (White) @ 0.67	SLW6: Solid Lane Line (White) @ 1.00
SPW4: Sloped Curb 4" (White) @ 2.16	SPW6: Sloped Curb 6" (White) @ 2.28	SPY4: Sloped Curb 4" (Yellow) @ 2.16	SPY6: Sloped Curb 6" (Yellow) @ 2.28	STW6: Standard Curb 6" (Yellow) @ 2.03
STY6: Standard Curb 6" (Yellow) @ 2.03	YLW2: Yield Line (White) @ 1.15			

Line No.	Road ID	Station From	Station To	Line Length (STA)	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY6 (STA)	BCY6 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	SLW6 (STA)	SLW6 Factored (STA)	Remarks
44.0	IA 4	83+42.00	88+53.00	511.00	Center	Waterborne/Solvent Paint		X		No								5.11	6.39			Permanent - After Rumble Strips
45.0	IA 4	88+53.00	146+83.00	5830.00	Center	Waterborne/Solvent Paint		X		No		58.30	14.57									Permanent - After Rumble Strips
46.0	IA 4	146+83.00	152+75.00	592.00	Center	Waterborne/Solvent Paint		X		No								5.92	7.40			Permanent - After Rumble Strips
47.0	IA 4	152+75.00	159+51.00	676.00	Center	Waterborne/Solvent Paint		X		No		6.76	1.69									Permanent - After Rumble Strips
48.0	IA 4	159+51.00	168+66.00	915.00	Center	Waterborne/Solvent Paint		X		No								9.15	11.44			Permanent - After Rumble Strips
49.0	IA 4	168+66.00	171+31.00	265.00	Center	Waterborne/Solvent Paint		X		No				2.65	5.30							Permanent - After Rumble Strips
50.0	IA 4	171+31.00	180+71.00	940.00	Center	Waterborne/Solvent Paint		X		No								9.40	11.75			Permanent - After Rumble Strips
51.0	IA 4	180+71.00	464+30.00	28359.00	Center	Waterborne/Solvent Paint		X		No		283.59	70.90									Permanent - After Rumble Strips
52.0	IA 4	464+30.00	481+78.00	1748.00	Center	Waterborne/Solvent Paint		X		No								17.48	21.85			Permanent - After Rumble Strips
53.0	IA 4	481+78.00	489+75.00	797.00	Center	Waterborne/Solvent Paint		X		No		7.97	1.99									Permanent - After Rumble Strips
54.0																						
55.0	IA 4	3+36.00	5+69.00	233.00	Both	Waterborne/Solvent Paint	X		X	Yes	4.66					4.66	4.66					Permanent after Grooving
56.0	IA 4	5+69.00	14+24.00	855.00	Both	Waterborne/Solvent Paint	X		X	Yes	17.10					17.10	17.10					Permanent after Grooving
57.0	IA 4	14+24.00	58+18.00	4394.00	Both	Waterborne/Solvent Paint	X		X	Yes	87.88					87.88	87.88					Permanent after Grooving
58.0	IA 4	58+18.00	74+75.00	1657.00	Both	Waterborne/Solvent Paint	X		X	Yes	33.14					33.14	33.14					Permanent after Grooving
59.0	IA 4	74+75.00	77+46.00	271.00	Both	Waterborne/Solvent Paint	X		X	Yes	5.42					5.42	5.42					Permanent after Grooving
60.0	IA 4	77+46.00	79+81.00	235.00	Both	Waterborne/Solvent Paint	X		X	Yes	4.70					4.70	4.70					Permanent after Grooving
61.0	IA 4	79+81.00	83+42.00	361.00	Both	Waterborne/Solvent Paint	X		X	Yes	7.22					7.22	7.22					Permanent after Grooving
62.0	IA 4	83+42.00	88+53.00	511.00	Both	Waterborne/Solvent Paint	X		X	Yes	10.22					10.22	10.22					Permanent after Grooving
63.0	IA 4	88+53.00	146+83.00	5830.00	Both	Waterborne/Solvent Paint	X		X	Yes	117.77					116.60	116.60			1.17	1.17	Permanent after Grooving
64.0	IA 4	146+83.00	152+75.00	592.00	Both	Waterborne/Solvent Paint	X		X	Yes	11.84					11.84	11.84					Permanent after Grooving
65.0	IA 4	152+75.00	159+51.00	676.00	Both	Waterborne/Solvent Paint	X		X	Yes	13.52					13.52	13.52					Permanent after Grooving
66.0	IA 4	159+51.00	168+66.00	915.00	Both	Waterborne/Solvent Paint	X		X	Yes	18.30					18.30	18.30					Permanent after Grooving
67.0	IA 4	168+66.00	171+31.00	265.00	Both	Waterborne/Solvent Paint	X		X	Yes	5.30					5.30	5.30					Permanent after Grooving
68.0	IA 4	171+31.00	180+71.00	940.00	Both	Waterborne/Solvent Paint	X		X	Yes	18.80					18.80	18.80					Permanent after Grooving
69.0	IA 4	180+71.00	464+30.00	28359.00	Both	Waterborne/Solvent Paint	X		X	Yes	568.67					567.18	567.18			1.49	1.49	Permanent after Grooving
70.0	IA 4	464+30.00	481+78.00	1748.00	Both	Waterborne/Solvent Paint	X		X	Yes	34.96					34.96	34.96					Permanent after Grooving
71.0	IA 4	481+78.00	496+82.00	1504.00	Both	Waterborne/Solvent Paint	X		X	Yes	31.85	7.07	1.77			30.08	30.08					Permanent after Grooving
Total:												991.35	308.4		46.14		2960.76		279.51		7.98	

Factored Total : Grooves Cut for Pavement Markings - 991.35 STA
Factored Total : Waterborne/Solvent Paint - 3602.79 STA

PAVEMENT MARKING SYMBOLS AND LEGENDS							
Refer to PM-111							
Line No.	Roadway Identification	Station	Side	Pavement Symbol	Quantity (EA)	Groove Marking Needed?	Remarks
1.0	IA 4	144+92.00	Right	RTAW	1	Yes	Preformed Thermoplastic Symbol
2.0	IA 4	145+67.00	Right	RTAW	1	Yes	Preformed Thermoplastic Symbol
3.0	IA 4	250+28.00	Left	RTAW	1	Yes	Preformed Thermoplastic Symbol
4.0	IA 4	251+03.00	Left	RTAW	1	Yes	Preformed Thermoplastic Symbol

Totals:
Pre-Cut Symbols and Legends, Preformed Thermoplastic Marking Material - 4 EACH
Grooves Cut for Symbols and Legends - 4 EACH

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. 4. "Rough Road" signs shall be erected in advance of scarified areas in accordance with Article 2214.05 of Standard Specifications.		

108_25
3/28/24

511 TRAVEL RESTRICTIONS													
Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
1.0	IA 4	Both	Pocahontas	N. Jct. IA 7 to Pocahontas	N/A	Traffic Control Device	N/A	Horizontal	N/A	24	N/A	N/A	

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
STPN-004-4(033)--2J-76	Pavement Planing/Grooving
NHSN-003-3(080)--2R-76	Pavement Planing/Grooving

100_17 8/15/22					
TABULATION OF SILT FENCES					
Refer to EC-201					
Line No.	Station From	Station To	Side	Length (FT)	Remarks
1.0	14+49.00	14+69.00	Right	20.00	See Sheet RU.1
2.0	25+09.00	25+29.00	Right	20.00	See Sheet RU.1
3.0	76+45.00	76+65.00	Right	20.00	See Sheet RU.1
4.0	119+50.00	119+70.00	Right	20.00	See Sheet RU.1
5.0	180+53.00	180+73.00	Right	20.00	See Sheet RU.1
5.1	348+40.00	348+60.00	Left	20.00	See Sheet RU.1
6.0	348+60.00	348+80.00	Left	20.00	See Sheet RU.1
Total:				140	

100_18
8/15/22

SILT FENCES FOR DITCH CHECKS

Possible Standard: EC-201

Cross Section View

Longitudinal Profile View

* The functional height used in the volume equation is 85% of effective height. Effective height is 1.58 feet as shown on EC-201.

* Volume equation: $[0.5 \times \text{Spacing} \times (0.5 \times H^2 \times FS + DW \times H + 0.5 \times H^2 \times BS)]$

Line No.	Basin No.	Type	Station	Side	Installation (LF)	Maintenance (LF)	Removal (LF)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope Ditch Grade	Volume (CF)	Remarks						
1.0	1	Type 1	14+59.00	Left	40.0	40.0	40.0	3.0	1.5	14.0	0.8	1771.65	See Sheet RU.1						
2.0	1	Type 1	14+59.00	Right	40.0	40.0	40.0	3.0	1.5	14.0	0.3	3600.45	See Sheet RU.1						
3.0	2	Type 1	25+19.00	Left	40.0	40.0	40.0	3.0	1.5	14.0	0.1	3600.45	See Sheet RU.1						
4.0	2	Type 1	25+19.00	Right	40.0	40.0	40.0	3.0	1.5	14.0	0.3	3600.45	See Sheet RU.1						
5.0	3	Type 1	76+55.00	Left	40.0	40.0	40.0	3.0	1.5	14.0	1.8	857.25	See Sheet RU.1						
6.0	3	Type 1	76+55.00	Right	40.0	40.0	40.0	3.0	1.5	14.0	0.8	1771.65	See Sheet RU.1						
7.0	4	Type 1	119+60.00	Left	40.0	40.0	40.0	3.0	1.5	14.0	0.9	1771.65	See Sheet RU.1						
8.0	4	Type 1	119+60.00	Right	40.0	40.0	40.0	3.0	1.5	14.0	0.6	1771.65	See Sheet RU.1						
9.0	5	Type 1	180+63.00	Left	40.0	40.0	40.0	3.0	1.5	14.0	3.0	571.50	See Sheet RU.1						
10.0	5	Type 1	180+63.00	Right	40.0	40.0	40.0	3.0	1.5	14.0	0.9	1771.65	See Sheet RU.1						
10.1	6	Type 1	348+50.00	Left	40.0	40.0	40.0	3.0	1.5	14.0	0.1	3600.45	See Sheet RU.1						
10.2	6	Type 1	348+50.00	Right	40.0	40.0	40.0	3.0	1.5	14.0	0.4	3600.45	See Sheet RU.1						
11.0	6	Type 1	348+70.00	Left	40.0	40.0	40.0	3.0	1.5	14.0	0.1	3600.45	See Sheet RU.1						
12.0	6	Type 1	348+70.00	Right	40.0	40.0	40.0	3.0	1.5	14.0	0.4	3600.45	See Sheet RU.1						
Total:					560	560	560												

FILE NO.

ENGLISH

DESIGN TEAM

District 3

POCAHONTAS COUNTY

PROJECT NUMBER

STP-004-4(035)--2C-76

SHEET NUMBER

RC.2

7/8/2026 9:18:18 AM

aaron.schwarz@dot.iowa.gov

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE							
Possible Standards: EC-204							
Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks
1.0	14+49.00	14+69.00	Left	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
2.0	14+68.00	14+88.00	Right	Perimeter and Slope	20 inch	20.00	Around intake
3.0	14+49.00	14+69.00	Right	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
4.0	25+09.00	25+29.00	Left	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
5.0	25+09.00	25+29.00	Right	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
6.0	76+45.00	76+65.00	Left	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
7.0	76+45.00	76+65.00	Right	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
8.0	119+50.00	119+70.00	Left	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
9.0	119+50.00	119+70.00	Right	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
10.0	180+53.00	180+73.00	Left	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
11.0	180+53.00	180+73.00	Right	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
12.0	348+34.00	348+54.00	Left	Perimeter and Slope	20 inch	20.00	Around intake
12.1	348+40.00	348+60.00	Left	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
12.2	348+40.00	348+60.00	Right	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
13.0	348+60.00	348+80.00	Left	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
14.0	348+60.00	348+80.00	Right	Perimeter and Slope	20 inch	20.00	See Sheet RU.1
Total:						320	

100_19
10/15/24

LINE STYLE LEGEND OF LANDSCAPE SHEETS	
LINESTYLE	Design Element
-----	Living Snow Fence Single Row
-----	Living Snow Fence Double Row
-----	Mechanical Edge

CELL LEGEND OF LANDSCAPE SHEETS		
CELL	Design Element	Plant Diameter
	Clearing	
	Proposed Shrub	6 FT
	Proposed Understory Tree	12 FT
	Proposed Conifer Tree	18 FT
	Proposed Overstory Tree	30 FT

PATTERN LEGEND OF LANDSCAPE SHEETS	
	Brush Clearing
	Clearing & Grubbing
	Spray Area

LINE STYLE LEGEND OF EROSION CONTROL SHEETS	
LINESTYLE	Design Element
	Silt Fence
	Perimeter and Slope Sediment Control Device (9")
	Perimeter and Slope Sediment Control Device (12")
	Perimeter and Slope Sediment Control Device (20")
	Open-Throat Curb Intake Sediment Filter
	Concentrated Flow
	Rock Check and Rock Check Dam
	Sheet Flow

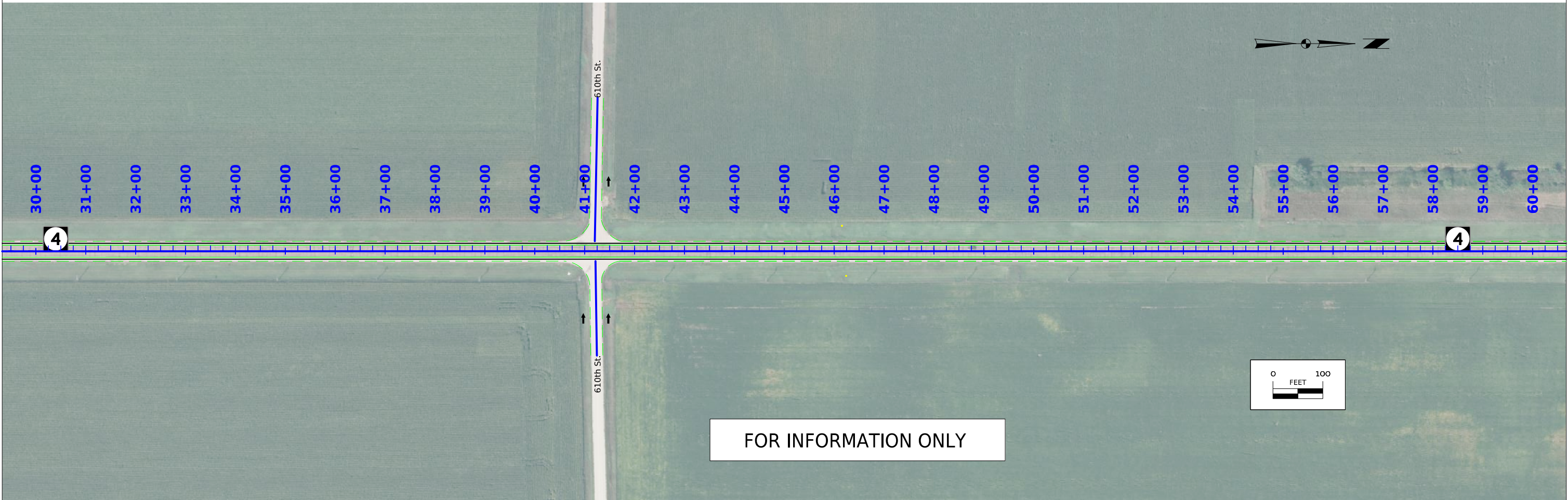
CELL LEGEND OF EROSION CONTROL SHEETS	
CELL	Design Element
	Temporary Sediment Control basin
	Erosion Control for Circular Intake or Manhole Well
	Erosion Control for Rectangular Intake or Manhole Well
	Grate Intake Sediment Filter Bag
	Silt Basin
	Silt Fence Tail
	Stormwater Drainage Basin Discharge Point

PLAN VIEW COLOR LEGEND OF EROSION CONTROL SHEETS				
LINEWORK	Design Color No.			
Green	(2)		Existing Topographic Features and Labels	
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation	
Magenta	(5)		Existing Utilities	
Black	(0)		Permanent Erosion Control Features	
Blaze Orange	(222)		Temporary Erosion Control Features	
SHADING	Design Color No.		Transparency	
Citron	(234)		Mulching, All Types	50%
Light Brown	(238)		Special Ditch Control, Wood Excelsior Mat	0%
Grass Green	(233)		8FT Mow Strip	50%
Red	(3)		Delineates Restricted Areas	0%

PATTERN LEGEND OF EROSION CONTROL SHEETS	
	Seeding and Fertilizing
	Seeding and Fertilizing (Rural)
	Seeding and Fertilizing (Urban)
	Native Grass Seeding
	Salt Tolerant Seeding
	Wetland Grass Seeding
	Wildflower Seeding
	Sodding
	Turf Reinforcement Mat Type 1
	Turf Reinforcement Mat Type 2
	Turf Reinforcement Mat Type 3
	Turf Reinforcement Mat Type 4
	Slope Protection, Wood Excelsior Mat
	Transition Mat
	Rock Features, Permanent
	Rock Features, Temporary

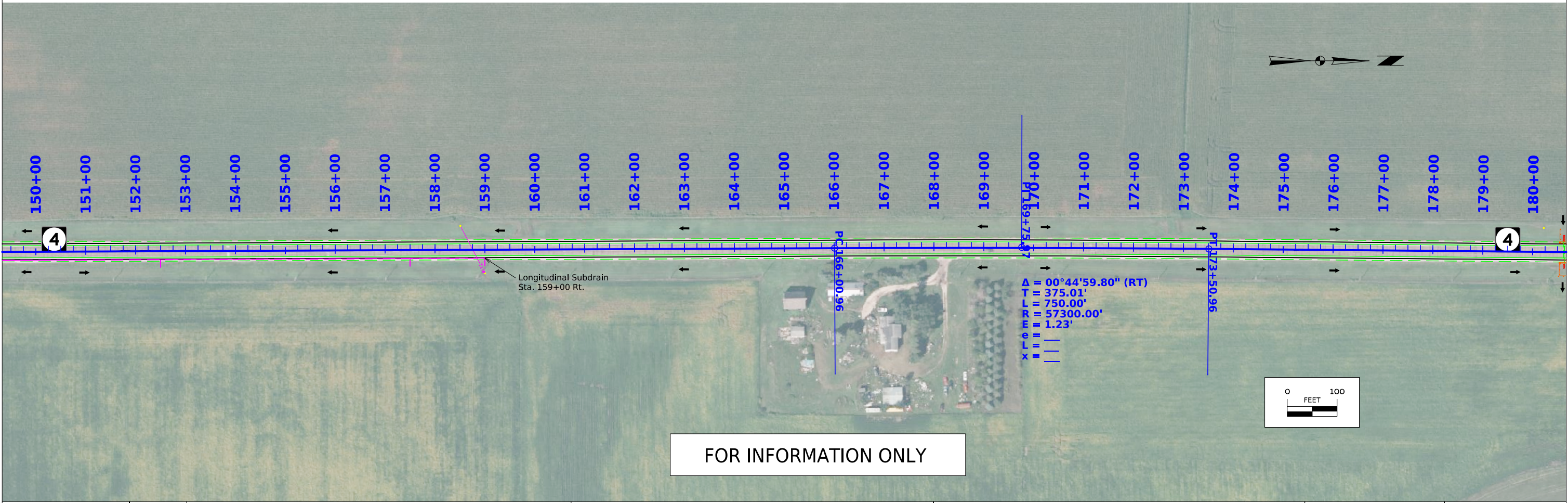
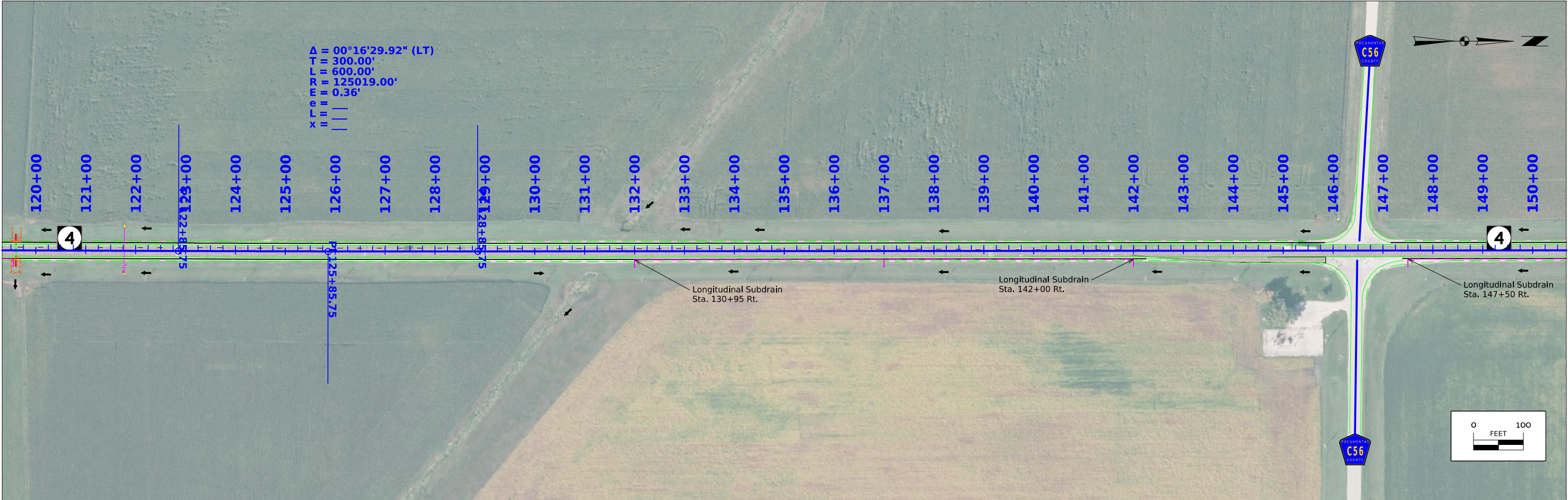
EROSION CONTROL LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES R)

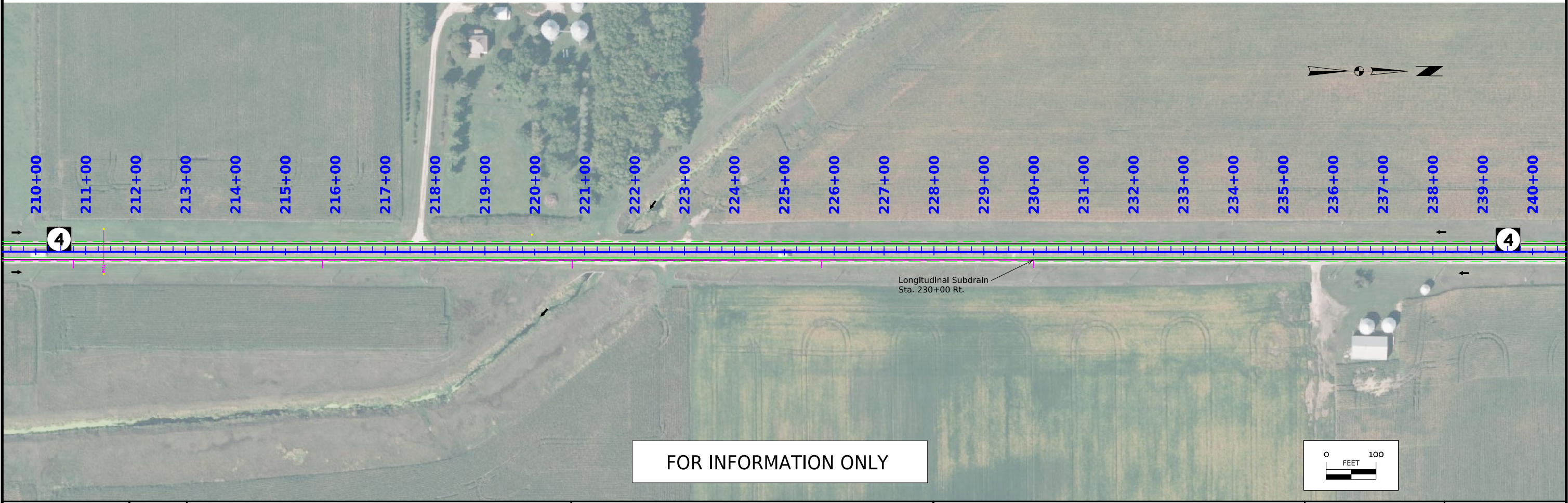


FILE NO.	ENGLISH	DESIGN TEAM	DISTRICT 3	POCAHONTAS COUNTY	PROJECT NUMBER	STP-004-4(035)--2C-76	SHEET NUMBER	RR.2
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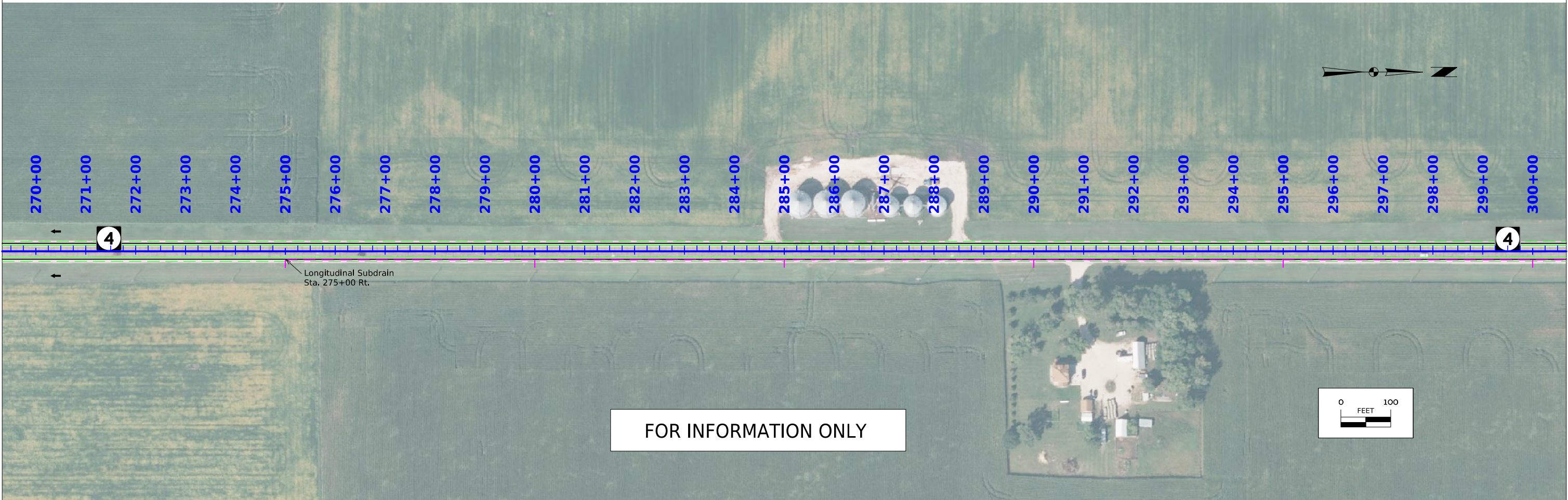
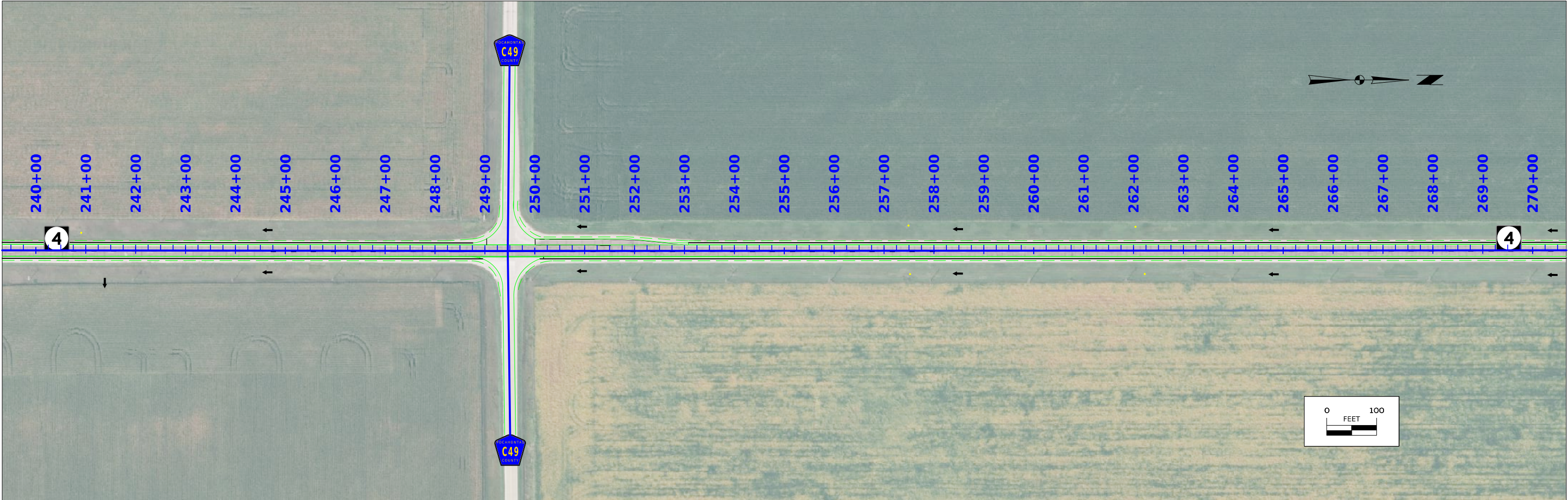




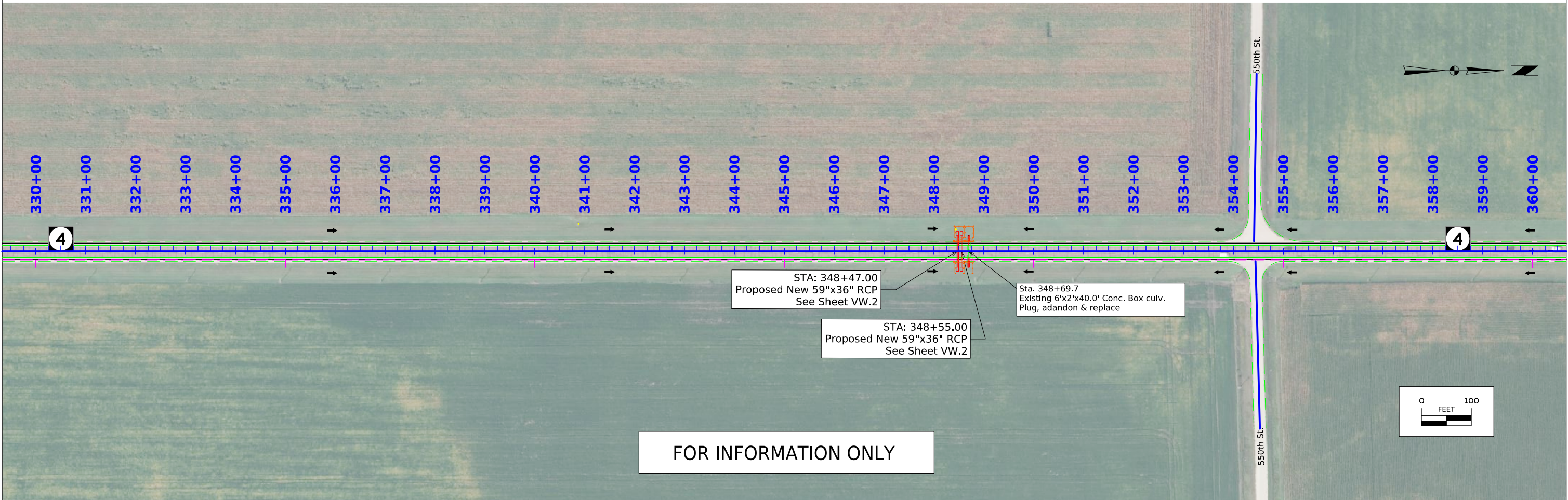
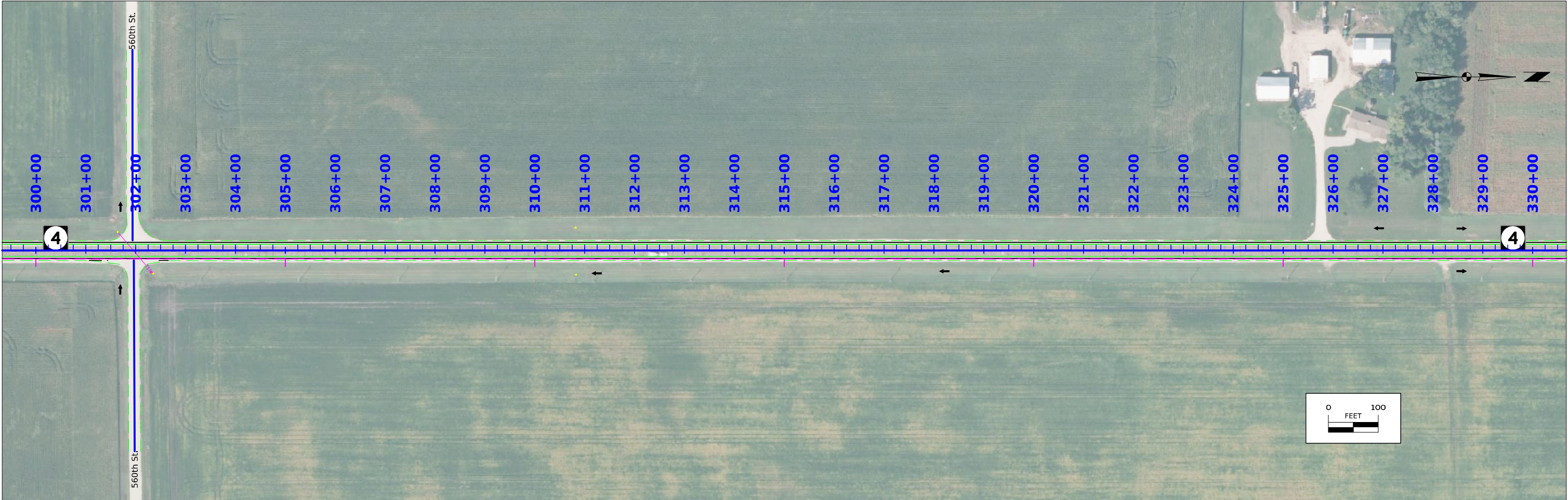
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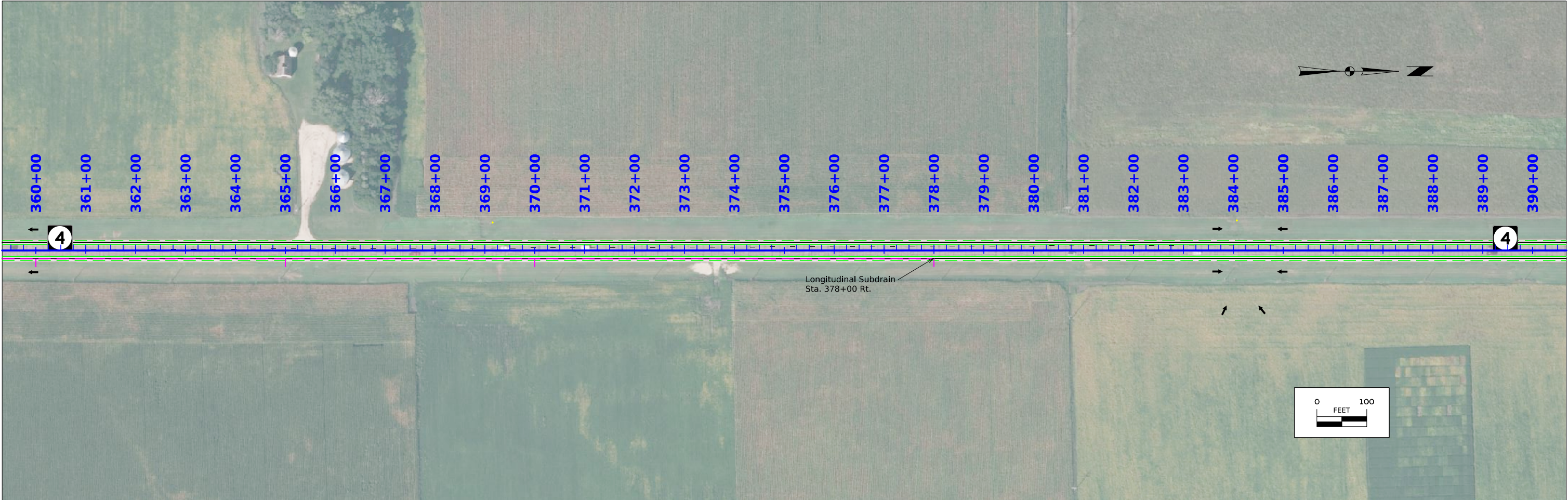
FOR INFORMATION ONLY

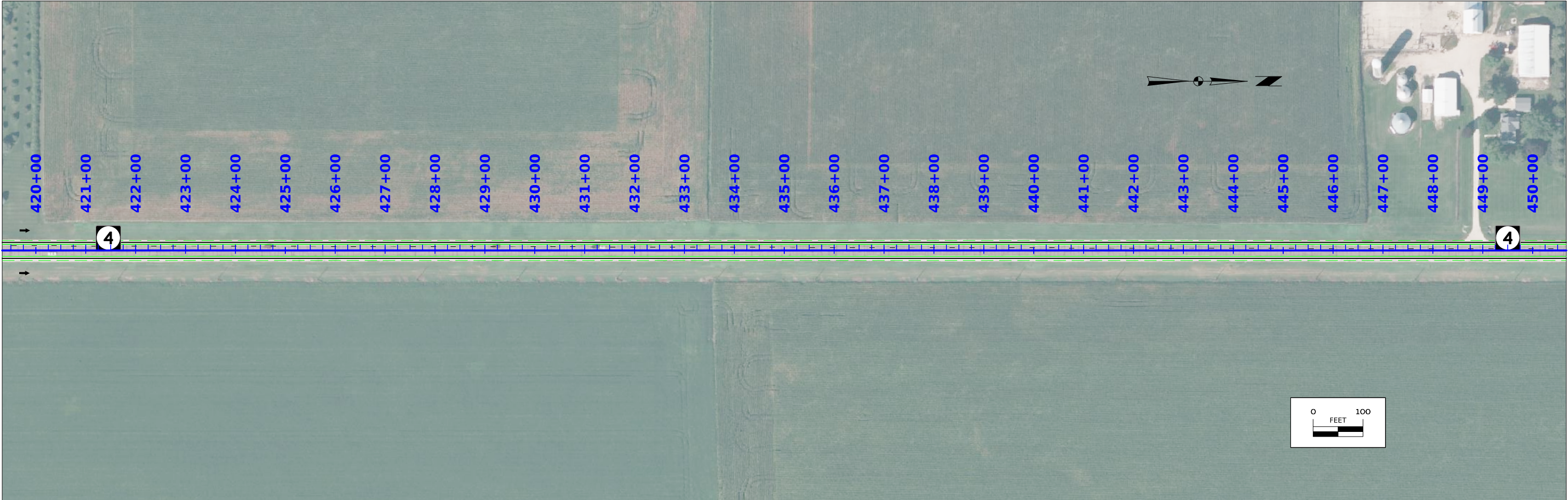


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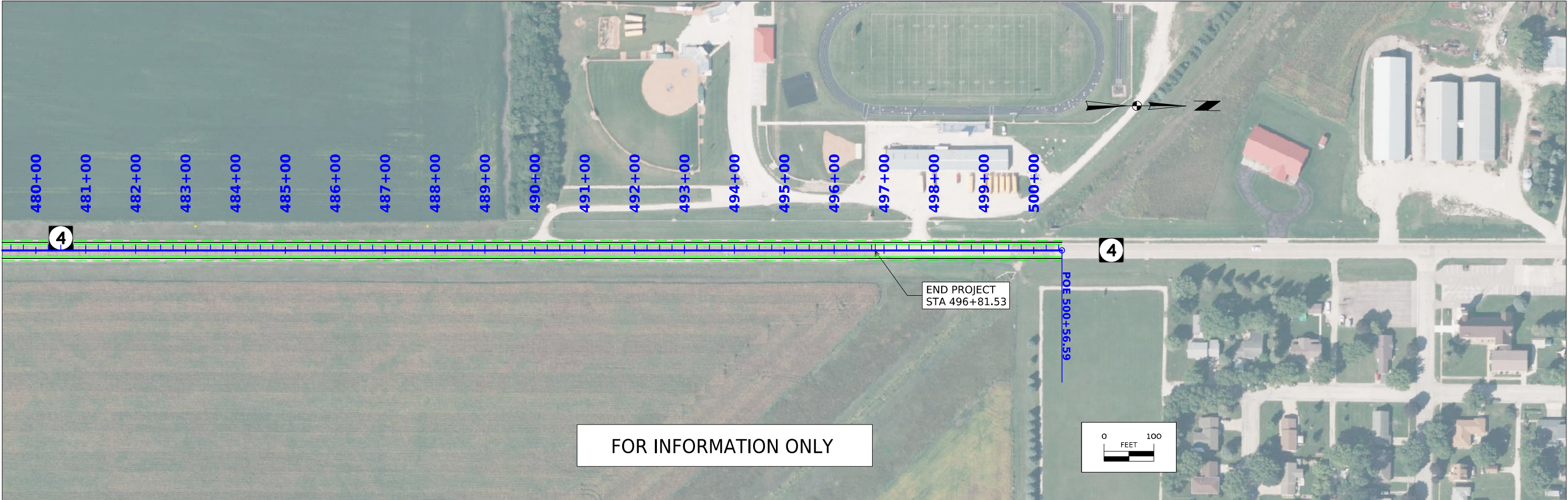


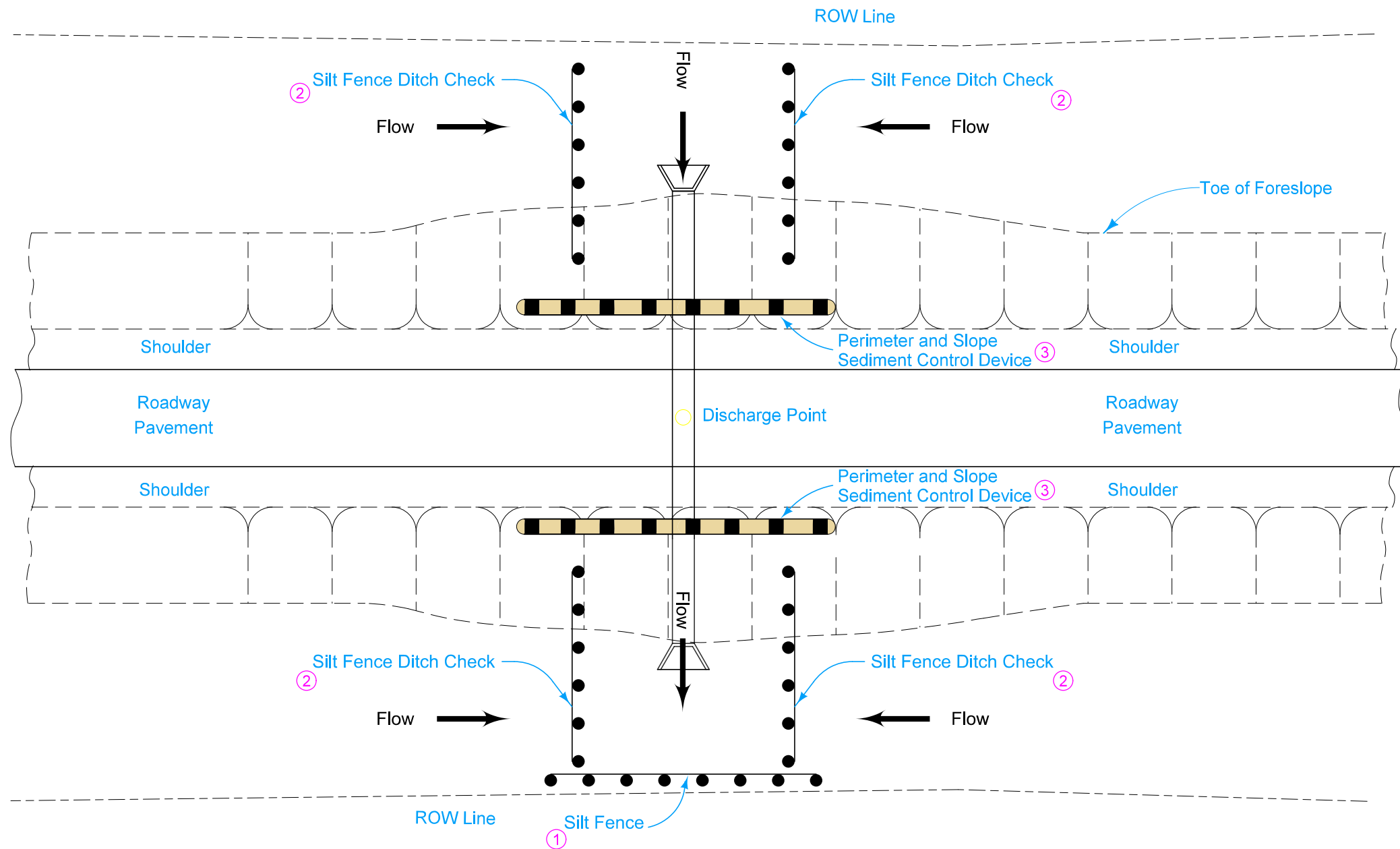
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FILE NO.	ENGLISH	DESIGN TEAM	DISTRICT 3	POCAHONTAS COUNTY	PROJECT NUMBER	STP-004-4(035)--2C-76	SHEET NUMBER	RR.9
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- ① Estimated at 20 LF. For equalizer pipes place silt fence left and right of discharge point.
- ② Estimated at 20 LF.
- ③ Estimated at 30 LF of 20 in. diameter device. Quantity shown are for estimating purposes only. Actual quantities shall be governed by conditions at each location where storm water leaves the right of way.
- See Standard Road Plans EC-201 and EC-204 for installation details.

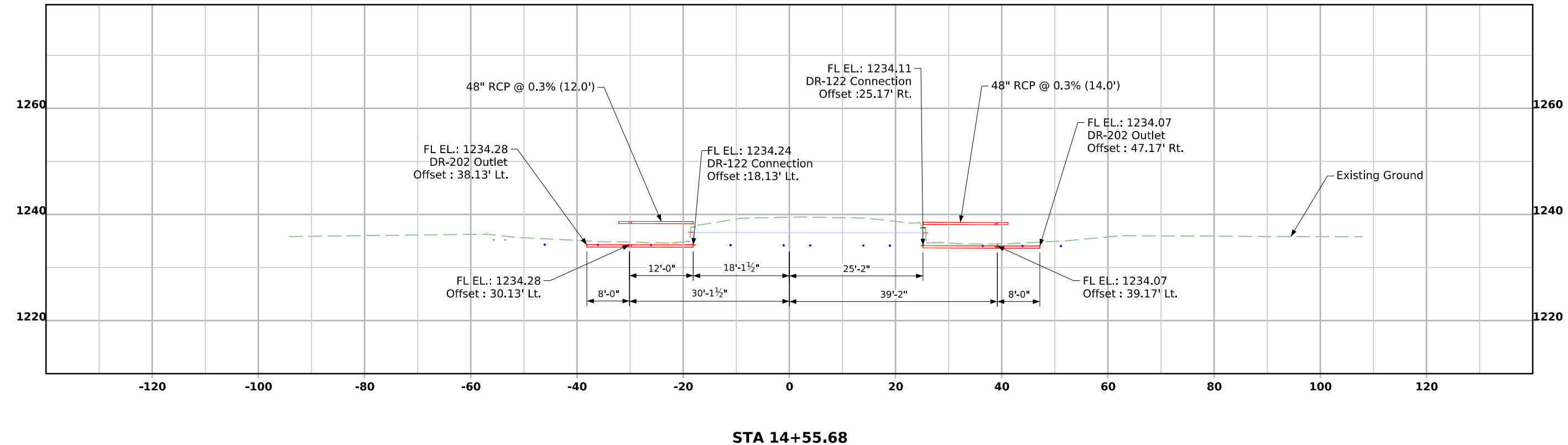
Possible Contract Item:
Silt Fence Ditch Check
Silt Fence
Perimeter and Slope Sediment Control Device

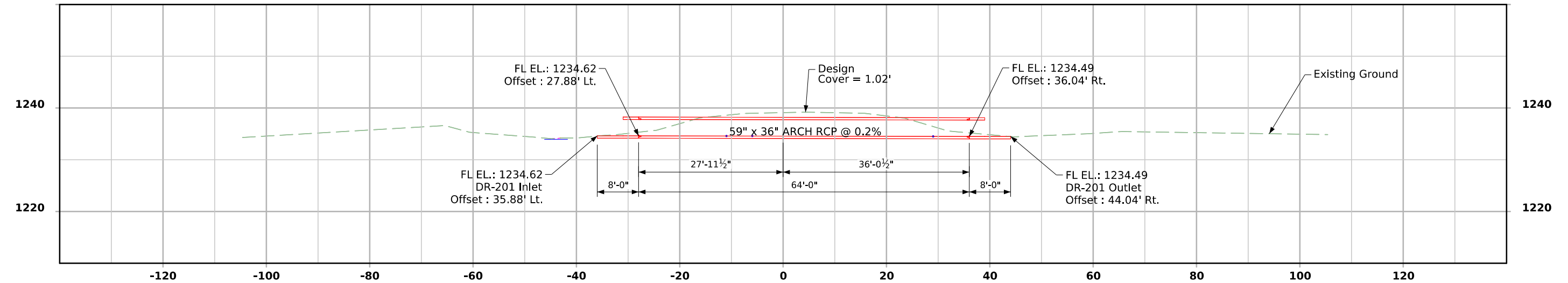
Possible Tabulations:
100-16
100-17
100-19
100-34

**DISTRICT 3
DESIGN DETAIL**

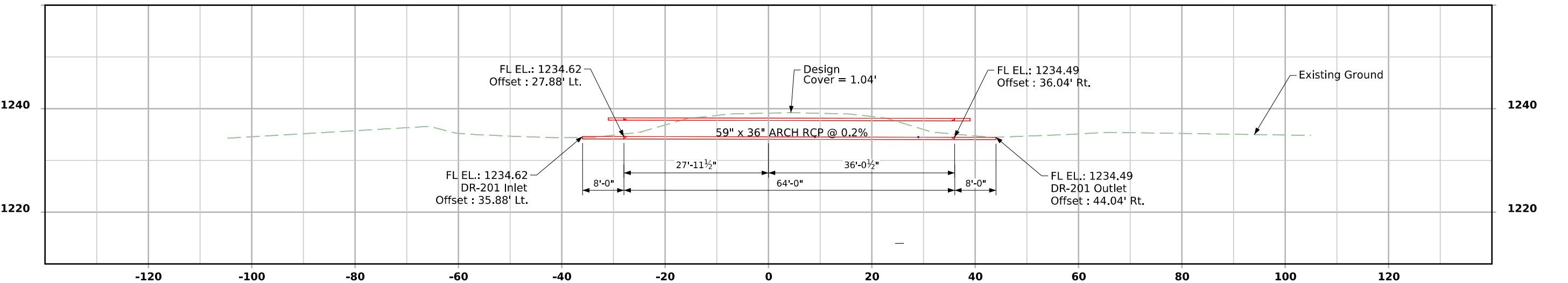
D3-EC1

**TEMPORARY SEDIMENT CONTROL
FOR SHOULDER WIDENING WITH
EXPOSED SOIL**





STA 348+47.00



STA 348+55.00