Seal Coat

LETTING DATE Dec 15 2026

STPN-012-2(052)--2J-75

PLYMOUTH/SIOUX COUNTY

No.	DESCRIPTION
A Sheets	**Title Sheets**
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	**Typical Cross Sections and Details**
B.1	Typical Cross Sections and Details
C Sheets	**Quantities and General Information**
C.1 - 2	Estimated Project Quantities
C.3	Project Description
C.4 - 17	Tabulations (beg. with tab. of incidentals if needed)
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.2	Staging and Traffic Control Sheets Stage ??
J.3	511 Travel Restrictions
J.4	Coordinated Projects
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
U*.1	500 Series, Modified Standards and Detail Sheets
	*Colored Plan Sheets

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

PLYMOUTH/SIOUX COUNTY

Seal Coat

NCL Akron to 8th St in Hawarden

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

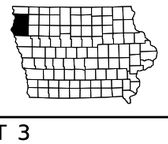
Value Engineering Saves. Refer to Article 1105.13 of the Specifications.

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

	TOTAL
	25
PROJECT IDENTIFICATION NUMBER	
26-75-012-010	
PROJECT NUMBER	
STPN-012-2(052)--2J-75	
R.O.W. PROJECT NUMBER	

Scan the QR code or click the link below to leave plan quality feedback and help us improve future projects.



DESIGN DATA RURAL		
2024 AADT	1140	V.P.D.
2044 AADT	1368	V.P.D.
20 – DHV	--	V.P.H.
TRUCKS	27	%
Total Design ESALs	--	

AKRON DESIGN DATA URBAN		
2024 AADT	2130	V.P.D.
2044 AADT	2556	V.P.D.
20 – DHV	--	V.P.H.
TRUCKS	14.5	%
Total Design ESALs	--	

CHATSWORTH DESIGN DATA URBAN		
2024 AADT	1140	V.P.D.
2044 AADT	1368	V.P.D.
20 -- DHV	–	V.P.H.
TRUCKS	17	%
Total Design ESALs	–	

HAWARDEN DESIGN DATA URBAN		
2024 AADT	2590	V.P.D.
2044 AADT	3108	V.P.D.
20 – DHV	–	V.P.H.
TRUCKS	12	%
Total Design ESALs	–	

ROADWAY DESIGN

LICENSED PROFESSIONAL ENGINEER
JUSTIN M. POTTORFF
25733
IOWA

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.

Justin M Pottorff

10-1-2026

Signature Date

JUSTIN M. POTTORFF

Printed or Typed Name

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: ALL

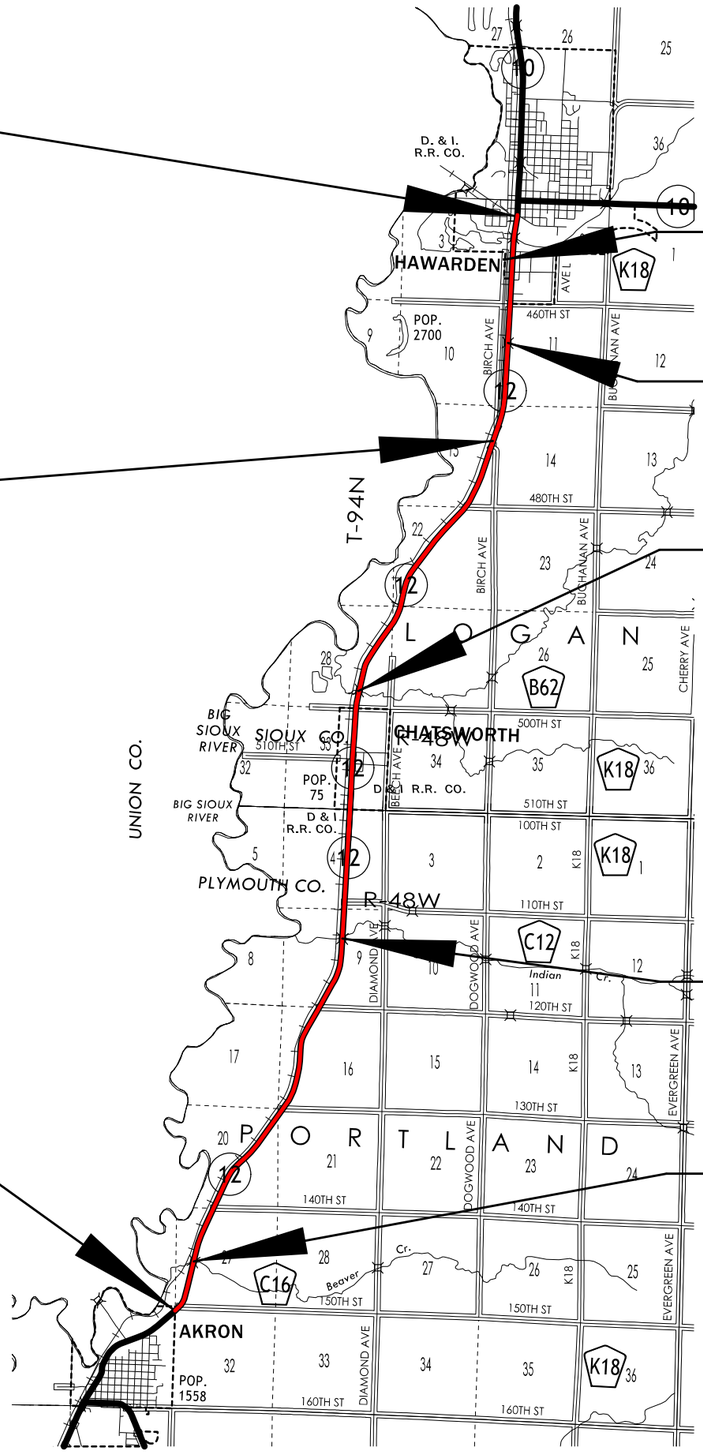
FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	PLYMOUTH/SIOUX COUNTY	PROJECT NUMBER STPN-012-2(052)--2J-75	SHEET NUMBER A.1

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END CONSTRUCTION
STA. 112+57
MP 46.51

EQUATION:
STA. 570+59 BACK
STA. 0+00 AHEAD

BEGIN CONSTRUCTION
STA. 70+50
MP 34.83



FHWA# 48580

FHWA# 606885

FHWA# 48571

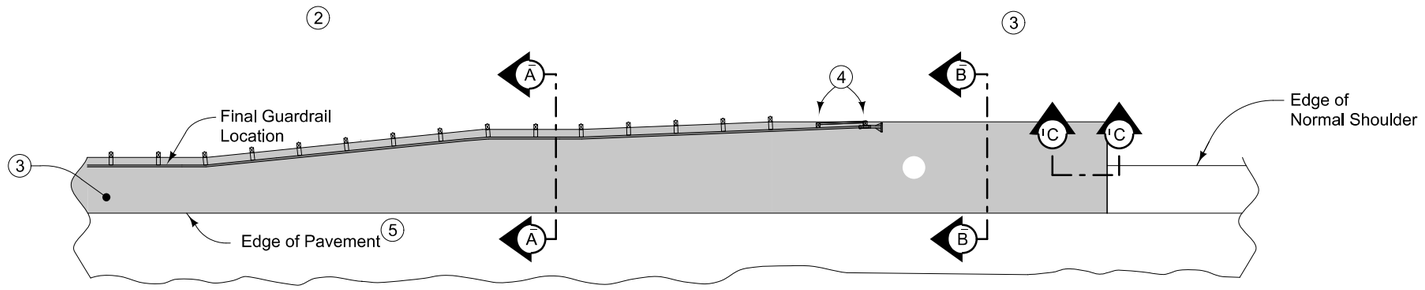
FHWA# 40020

FHWA# 39971

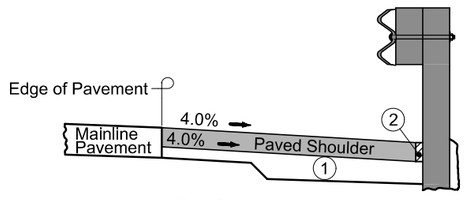
LOCATION MAP SCALE
0 1 2 3
Miles

FILE NO.	ENGLISH	DESIGN TEAM DISTRICT 3	PLYMOUTH/SIOUX COUNTY	PROJECT NUMBER STPN-012-2(052)--2J-75	SHEET NUMBER A.2

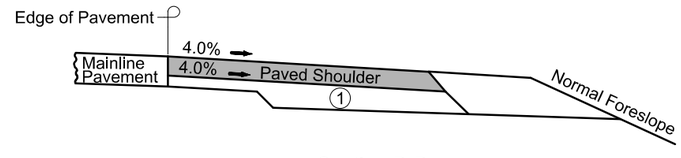
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PLAN VIEW

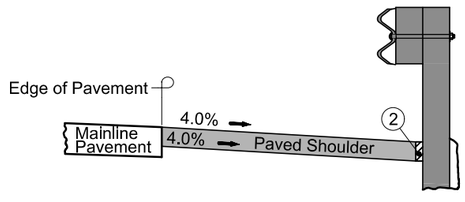


Section A-A

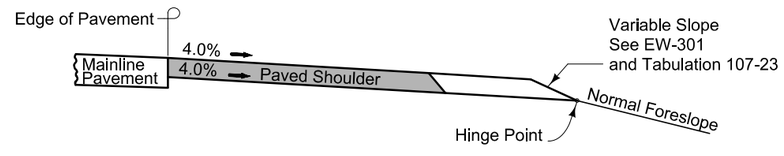


Section B-B

NEW CONSTRUCTION



Section A-A



Section B-B

EXISTING SHOULDER

7156
MODIFIED

8" PCC paved shoulders with the following jointing layout:

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Refer to Tabulation 112-9 for shoulder quantities.

(1) For subgrade treatment, refer to other details in the plan.

(2) PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown. Refer to note 4 for final 2 posts.

(3) Continue paved shoulder to existing paved shoulder or 20 feet beyond the center of the first post.

(4) Shoulder may be notched for final 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.

(5) 'KT-1 joint for PCC shoulder.
'B' joint for HMA shoulder.



Section C-C
Roll down at granular shoulder or earth.

PAVED SHOULDER AT GUARDRAIL

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
1	2102-0425070	SPECIAL BACKFILL	TON	60.1	Refer to Tab. 112-09.
2	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	272.4	Refer to Tab. 107-23.
3	2102-2713090	EXCAVATION, CLASS 13, WASTE	CY	42.5	Dispose of excess material according to Article 1106.07 of the current specifications. Refer to Tab. 112-09.
4	2122-5190008	PAVED SHOULDER, P.C. CONCRETE, 8 IN.	SY	190.7	Refer to Tab. 112-09.
5	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	1.28	Included for the construction of PCC shoulders at guardrail. Refer to Tab. 112-09.
6	2307-1400000	ASPHALT EMULSION FOR DUST CONTROL	GAL	2,437.2	
7	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	390	Refer to Tab. 110-07A.
8	2505-4008300	STEEL BEAM GUARDRAIL	LF	150	Refer to Tab. 108-08A.
9	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	4	
10	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	4	
11	2527-9263155	PRE-CUT SYMBOLS AND LEGENDS, PREFORMED THERMOPLASTIC MARKING MATERIAL	EACH	1	Refer to Tab 108-29.
12	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	4,570.9	Refer to Tab 108-22.
13	2527-9263225	PERMANENT TAPE MARKINGS, PREFORMED THERMOPLASTIC MARKING MATERIAL	STA	1.12	
14	2527-9270112	GROOVES CUT FOR PAVEMENT MARKINGS	STA	1,524	
15	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH	1	Refer to Tab 108-29.
16	2528-2518000	SAFETY CLOSURE	EACH	2	Refer to Tab 108-13A.
17	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Traffic Control Plan on Sheet J.1.
18	2529-5070110	PATCHES, FULL-DEPTH FINISH, BY AREA	SY	45.3	Refer to Tab. 102-6C.
19	2529-5070120	PATCHES, FULL-DEPTH FINISH, BY COUNT	EACH	5	
20	2533-4980005	MOBILIZATION	LS	1	- -
21	2548-0000317	PENETRATING ENGINEERED EMULSION FOR FOG SEAL (CENTERLINE RUMBLE STRIPS)	SY	7,848.3	Refer to Tab 112-10.
22	2548-0000357	MILLED CENTERLINE SINUSOIDAL RUMBLE STRIPS, HMA SURFACE	STA	603.7	Refer to Tab 112-10.
23	2599-9999006	('GALLONS' ITEM) Emulsion for Scrub Seal	GAL	56,868.9	See Special Provision for Polymer Scrub Seal for more information.
24	2599-9999018	('SQUARE YARDS' ITEM) Micro Milling Item	SY	162,482.7	Refer to SP Micro Milling Asphalt Pavements. Mill to a uniform depth of 5/16th of an inch.

Item no.	Item Code	Item	Unit	Quantities	Estimate Reference Notes
				Estimated	
				Roadway Items	
25	2599-9999018	('SQUARE YARDS' ITEM) Scrub Seal Area	SY	162,482.7	See Special Provision for Polymer Scrub Seal for more information.

100_01D

8/15/22

PROJECT DESCRIPTION

This is a scrub seal project on IA 12 from NCL Akron to 8th St in Hawarden. Other work includes patching and painted pavement markings.

100_27
8/15/22

PROPOSED POSTED SPEED LIMIT

Line No.	Roadway Identification	Proposed Posted Speed	Remarks
1.0	IA 12	over 45	MP 34.83 TO MP 40.44
2.0	IA 12	40-45	MP 40.44 TO MP 40.93
3.0	IA 12	over 45	MP 40.93 TO MP 46.08
4.0	IA 12	40-45	MP 46.08 TO MP 46.51

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	75	IA-12	1	33.52	40.24	2021	S	STPN-012-2(35)--2J-75													
2.0	75	IA-12	1	33.52	40.24	1997		STPN-12-2(13)--2J-75	AAC	1.5	AAC	3.5									
3.0	75	IA-12	1	33.52	40.24	1987		MP-12-3(1)34--76-7	BSC												
4.0	75	IA-12	1	33.52	40.24	1967		FN-12-2(1)--21-75	BAC	1.5	TBB	1.5					HAWARDEN	GRAVEL			
5.0	75	IA-12	1	33.52	40.24	1954		P-1056	BSC	6.0							CHATSWORTH	GRAVEL			
6.0	84	IA-12	1	40.24	45.65	2021	S	STPN-012-2(35)--2J-75													
7.0	84	IA-12	1	40.24	45.65	1997		STPN-12-2(13)--2J-75	AAC	1.5	AAC	3.5					HAWARDEN-NORTH	GRAVEL			
8.0	84	IA-12	1	40.24	45.65	1987		MP-12-3(1)34--76-7	BSC												
9.0	84	IA-12	1	40.24	45.65	1967		FN-12-3(1)--21-75	BAC	1.5	TBB	1.5					HAWARDEN	GRAVEL			
10.0	84	IA-12	1	40.24	45.65	1955		F-1003(5)	BSC	1.5	ATB	4.5	SAS	6.0			HAWARDEN-NORTH	GRAVEL			
11.0	84	IA-12	1	45.65	46.65	2021	S	STPN-012-2(35)--2J-75													
12.0	84	IA-12	1	45.65	46.65	1997		STPN-12-2(13)--2J-75	AAC	1.5	AAC	3.5					HAWARDEN-NORTH	GRAVEL			
13.0	84	IA-12	1	45.65	46.65	1966		NA	BAC	4.5											
14.0	84	IA-12	1	45.65	46.65	1955		NA	AAC	4.5	SAS	6.0									

STANDARDS

The following Standards apply to construction work on this project.

Number	Date	Title
PM-110	10-15-24	Line Types
PM-111	04-21-20	Symbols and Legends
PM-115	10-20-26	Grooving for Line Types
PM-116	04-16-24	Grooving for Symbols and Legends
PR-103	10-21-25	Full Depth PCC Patch with Dowels
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

FULL-DEPTH PATCHES

Line No.	Count	Station	Reference Location Sign	Direction of Travel	Side	Length (FT)	Width (FT)	Patch Thickness (IN)	Patch Repair or Finish	PCC Patch Type	PCC Patch Quantity (SY)	HMA Patches (SY)	Composite HMA (TON)	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	1	100+46.00		NB	Left	6.0	12.0	14.0	Finish	PCC With Dowels (PR-103)	8.0										
2.0	2	172+40.00		NB	Both	6.0	12.0	14.0	Finish	PCC With Dowels (PR-103)	16.0										
3.0	2	327+00.00		NB	Both	8.0	12.0	14.0	Finish	PCC With Dowels (PR-103)	21.3										
Total	5										45.3										

PAVEMENT MARKING LINE TYPES

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	Begin Ref. Location Sign	End Ref. Location Sign	Line Length (STA)	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BLW6 (STA)	BLW6 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	Remarks
1.0	IA 12	46.46	46.46	0.14	NB	Thermoplastic			X	Yes	0.56									0.14	0.56	PERMANENT PAINT
2.0	IA 12	46.47	46.47	0.14	NB	Thermoplastic	X			Yes	0.56									0.14	0.56	PERMANENT PAINT
Total											1.12		0.00		0.00		0.00		0.00		1.12	
Marking Type : Thermoplastic Number of Records : 2																						
3.0	IA 12	34.83	34.93	5.28	NB	Waterborne/Solvent Paint		X		No				5.28	10.56							MICROMILLING TEMP PAINT
4.0	IA 12	34.93	35.12	10.03	NB	Waterborne/Solvent Paint		X		No								10.03	12.54			MICROMILLING TEMP PAINT
5.0	IA 12	35.12	36.11	52.27	NB	Waterborne/Solvent Paint		X		No		52.27	13.07									MICROMILLING TEMP PAINT
6.0	IA 12	36.11	36.44	17.42	NB	Waterborne/Solvent Paint		X		No								17.42	21.78			MICROMILLING TEMP PAINT
7.0	IA 12	36.44	37.05	32.21	NB	Waterborne/Solvent Paint		X		No		32.21	8.05									MICROMILLING TEMP PAINT
8.0	IA 12	37.05	37.43	20.06	NB	Waterborne/Solvent Paint		X		No								20.06	25.08			MICROMILLING TEMP PAINT
9.0	IA 12	37.43	37.57	7.39	NB	Waterborne/Solvent Paint		X		No		7.39	1.85									MICROMILLING TEMP PAINT
10.0	IA 12	37.57	37.82	13.20	NB	Waterborne/Solvent Paint		X		No								13.20	16.50			MICROMILLING TEMP PAINT
11.0	IA 12	37.82	37.95	6.86	NB	Waterborne/Solvent Paint		X		No				6.86	13.72							MICROMILLING TEMP PAINT
12.0	IA 12	37.95	38.14	10.03	NB	Waterborne/Solvent Paint		X		No								10.03	12.54			MICROMILLING TEMP PAINT
13.0	IA 12	38.14	42.43	226.51	NB	Waterborne/Solvent Paint		X		No		226.51	56.63									MICROMILLING TEMP PAINT
14.0	IA 12	42.43	42.58	7.92	NB	Waterborne/Solvent Paint		X		No								7.92	9.90			MICROMILLING TEMP PAINT
15.0	IA 12	42.58	42.7	6.34	NB	Waterborne/Solvent Paint		X		No				6.34	12.68							MICROMILLING TEMP PAINT
16.0	IA 12	42.7	42.86	8.45	NB	Waterborne/Solvent Paint		X		No								8.45	10.56			MICROMILLING TEMP PAINT
17.0	IA 12	42.86	46.21	176.88	NB	Waterborne/Solvent Paint		X		No		176.88	44.22									MICROMILLING TEMP PAINT
18.0	IA 12	46.21	46.51	15.84	NB	Waterborne/Solvent Paint		X		No								15.84	19.80			MICROMILLING TEMP PAINT
19.0	IA 12	34.83	46.51	1233.41	NB	Waterborne/Solvent Paint	X		X	No						1233.41	1233.41					MICROMILLING TEMP PAINT
20.0	IA 12	46.46	46.46	0.14	NB	Waterborne/Solvent Paint			X	No										0.14	0.56	MICROMILLING TEMP PAINT
21.0	IA 12	46.46	46.46	0.14	NB	Waterborne/Solvent Paint			X	No										0.14	0.56	MICROMILLING TEMP PAINT
22.0	IA 12	34.83	34.93	5.28	NB	Waterborne/Solvent Paint		X		No				5.28	10.56							SCRUB SEAL TEMP PAINT
23.0	IA 12	34.93	35.12	10.03	NB	Waterborne/Solvent Paint		X		No								10.03	12.54			SCRUB SEAL TEMP PAINT
24.0	IA 12	35.12	36.11	52.27	NB	Waterborne/Solvent Paint		X		No		52.27	13.07									SCRUB SEAL TEMP PAINT
25.0	IA 12	36.11	36.44	17.42	NB	Waterborne/Solvent Paint		X		No								17.42	21.78			SCRUB SEAL TEMP PAINT
26.0	IA 12	36.44	37.05	32.21	NB	Waterborne/Solvent Paint		X		No		32.21	8.05									SCRUB SEAL TEMP PAINT
27.0	IA 12	37.05	37.43	20.06	NB	Waterborne/Solvent Paint		X		No								20.06	25.08			SCRUB SEAL TEMP PAINT
28.0	IA 12	37.43	37.57	7.39	NB	Waterborne/Solvent Paint		X		No		7.39	1.85									SCRUB SEAL TEMP PAINT
29.0	IA 12	37.57	37.82	13.20	NB	Waterborne/Solvent Paint		X		No								13.20	16.50			SCRUB SEAL TEMP PAINT
30.0	IA 12	37.82	37.95	6.86	NB	Waterborne/Solvent Paint		X		No				6.86	13.72							SCRUB SEAL TEMP PAINT
31.0	IA 12	37.95	38.14	10.03	NB	Waterborne/Solvent Paint		X		No								10.03	12.54			SCRUB SEAL TEMP PAINT
32.0	IA 12	38.14	42.43	226.51	NB	Waterborne/Solvent Paint		X		No		226.51	56.63									SCRUB SEAL TEMP PAINT
33.0	IA 12	42.43	42.58	7.92	NB	Waterborne/Solvent Paint		X		No								7.92	9.90			SCRUB SEAL TEMP PAINT
34.0	IA 12	42.58	42.7	6.34	NB	Waterborne/Solvent Paint		X		No				6.34	12.68							SCRUB SEAL TEMP PAINT
35.0	IA 12	42.7	42.86	8.45	NB	Waterborne/Solvent Paint		X		No								8.45	10.56			SCRUB SEAL TEMP PAINT
36.0	IA 12	42.86	46.21	176.88	NB	Waterborne/Solvent Paint		X		No		176.88	44.22									SCRUB SEAL TEMP PAINT
37.0	IA 12	46.21	46.51	15.84	NB	Waterborne/Solvent Paint		X		No								15.84	19.80			SCRUB SEAL TEMP PAINT

PAVEMENT MARKING LINE TYPES

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	Begin Ref. Location Sign	End Ref. Location Sign	Line Length (STA)	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BLW6 (STA)	BLW6 Factored (STA)	DCY6 (STA)	DCY6 Factored (STA)	ELW6 (STA)	ELW6 Factored (STA)	NPY6** (STA)	NPY6** Factored (STA)	SLW2 (STA)	SLW2 Factored (STA)	Remarks
38.0	IA 12	34.83	46.51	1233.41	NB	Waterborne/Solvent Paint	X		X	No						1233.41	1233.41					SCRUB SEAL TEMP PAINT
39.0	IA 12	46.47	46.47	0.14	NB	Waterborne/Solvent Paint	X			No										0.14	0.56	SCRUB SEAL TEMP PAINT
40.0	IA 12	46.47	46.47	0.14	NB	Waterborne/Solvent Paint	X			No										0.14	0.56	SCRUB SEAL TEMP PAINT
41.0	IA 12	34.83	34.93	5.28	NB	Waterborne/Solvent Paint		X		Yes	10.56			5.28	10.56							PERMANENT PAINT
42.0	IA 12	34.93	35.12	10.03	NB	Waterborne/Solvent Paint		X		Yes	12.54							10.03	12.54			PERMANENT PAINT
43.0	IA 12	35.12	36.11	52.27	NB	Waterborne/Solvent Paint		X		Yes	13.07	52.27	13.07									PERMANENT PAINT
44.0	IA 12	36.11	36.44	17.42	NB	Waterborne/Solvent Paint		X		Yes	21.78							17.42	21.78			PERMANENT PAINT
45.0	IA 12	36.44	37.05	32.21	NB	Waterborne/Solvent Paint		X		Yes	8.05	32.21	8.05									PERMANENT PAINT
46.0	IA 12	37.05	37.43	20.06	NB	Waterborne/Solvent Paint		X		Yes	25.08							20.06	25.08			PERMANENT PAINT
47.0	IA 12	37.43	37.57	7.39	NB	Waterborne/Solvent Paint		X		Yes	1.85	7.39	1.85									PERMANENT PAINT
48.0	IA 12	37.57	37.82	13.20	NB	Waterborne/Solvent Paint		X		Yes	16.50							13.20	16.50			PERMANENT PAINT
49.0	IA 12	37.82	37.95	6.86	NB	Waterborne/Solvent Paint		X		Yes	13.72			6.86	13.72							PERMANENT PAINT
50.0	IA 12	37.95	38.14	10.03	NB	Waterborne/Solvent Paint		X		Yes	12.54							10.03	12.54			PERMANENT PAINT
51.0	IA 12	38.14	42.43	226.51	NB	Waterborne/Solvent Paint		X		Yes	56.63	226.51	56.63									PERMANENT PAINT
52.0	IA 12	42.43	42.58	7.92	NB	Waterborne/Solvent Paint		X		Yes	9.90							7.92	9.90			PERMANENT PAINT
53.0	IA 12	42.58	42.7	6.34	NB	Waterborne/Solvent Paint		X		Yes	12.68			6.34	12.68							PERMANENT PAINT
54.0	IA 12	42.7	42.86	8.45	NB	Waterborne/Solvent Paint		X		Yes	10.56							8.45	10.56			PERMANENT PAINT
55.0	IA 12	42.86	46.21	176.88	NB	Waterborne/Solvent Paint		X		Yes	44.22	176.88	44.22									PERMANENT PAINT
56.0	IA 12	46.21	46.51	15.84	NB	Waterborne/Solvent Paint		X		Yes	19.80							15.84	19.80			PERMANENT PAINT
57.0	IA 12	34.83	46.51	1233.41	NB	Waterborne/Solvent Paint	X		X	Yes	1233.41					1233.41	1233.41					PERMANENT PAINT
Total											1522.89		371.46		110.88		3700.23		386.10		2.24	
Marking Type : Waterborne/Solvent Paint Number of Records : 55																						
Grand Totals											1524.01		371.46		110.88		3700.23		386.10		3.36	
Number of Records : 57																						

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4/15/25

PAVEMENT MARKING SYMBOLS AND LEGENDS

Refer to PM-111

Line No.	Roadway Identification	Side	Pavement Symbol	Quantity (EA)	Groove Marking Needed?	Remarks
1.0	IA 12	Left	RRCW	1	Yes	MP 46.33

108_13A
3/27/25

SAFETY CLOSURES

Station	Road Closure Qty.	Hazard Closure Qty.	Remarks
70+50.00	1		
112+57.00	1		

SHOULDERS

(1) Lane(s) to which the shoulder is adjacent.
(2) See Typ. 7156, 7157, or 7158.
(3) Bid Item.
(4) Applies only for Paved Shoulders constructed on project with existing granular shoulders.
(5) Bid Item. Typ. 7156, 7157, or 7158.
(6) Does not include shrink.
(7) Paved shoulder thickness specified in Remarks.
(8) Subbase type specified in Remarks.

Roadway Identification	Direction of Travel (1)	Station From	Station To	Side	P Width (FT)	P SG Width (2) (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY)(3)(4)	HMA (TON)	HMA (TON/STA)	Binder (TONS)	Paved Shoulder at Grdrail (5)(7) (SY)	Reinforced Paved Shoulder(3) (SY)	Special Backfill HMA Alt. (3) (TON)	Special Backfill HMA Alt. (TON/STA)	Special Backfill PCC Alt. (3) (TON)	Special Backfill PCC Alt. (TON/STA)	Pavement Scarification (SY)	Polymer Grid (SY)	Subbase (3) (8) (CY)	Granular Shoulder (3) (TON)	Granular Shoulder (TON/STA)	Earth Shoulder Const. Alt (3) (STA)	Earth Shoulder Const. Alt HMA (6) (CY)	Earth Shoulder Const. Alt PCC (6) (CY)	Remarks
IA 12	NB	411+57.30	412+14.30	Right	15			57.00	21.1				95.0				29.930							0.57			8" PCC with 6" Special
IA 12	SB	412+07.10	412+27.10	Left	10			20.00	4.9				22.2				6.930							0.20			8" PCC with 6" Special
IA 12	NB	416+95.90	417+15.90	Right	10			20.00	4.9				22.2				6.930							0.20			8" PCC with 6" Special
IA 12	SB	417+35.00	417+66.00	Left	15			31.00	11.5				51.7				16.290							0.31			8" PCC with 6" Special

STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION

Possible Standards: BA-200, BA-201, BA-202, BA-205, BA-206, BA-209, BA-210, BA-211, BA-221, BA-225, BA-250, BA-260, LS-625, LS-626, LS-630, LS-635, SI-172, SI-173 and SI-211.

(1) Lane(s) to which the obstacle is adjacent.
(2) Not a bid item. Incidental to guardrail installation.

Line No.	Direction of Travel (1)	Side	Station	Offset (FT)	Barrier Transition Section	Barrier Transition Section (EA)	End Terminal	End Terminal Count (EA)	VT1 (LF)	VF (LF)	VT2 (LF)	ET (LF)	BA-211 Station	BA-211 (Type)	SI-211 (Type) (2)	Delineator SI-172 Type 1 (EA) (2)	Object Marker Type 2 (EA) (2)	Object Marker Type 3 Lt (EA)(2)	Object Marker Type 3 Rt (EA)(2)	Bolted End Anchor BA-202 (Type)	Bolted End Anchor BA-202 (EA)	Post Adapter BA-210 (EA)	Steel Beam Guardrail BA-200 (LF)	Remarks
1.0	NB	Right	413+28.00	20.0	BA-201	1	BA-205	1	53.125	50.00		47.70			3				1				62.5	
2.0	NB	Left	413+28.00	20.0	BA-201	1	BA-205	1	53.125			47.70			3			1					12.5	
3.0	NB	Right	415+95.00	20.0	BA-201	1	BA-205	1	53.125	50.00		47.70			3				1				62.5	
4.0	NB	Left	415+95.00	20.0	BA-201	1	BA-205	1	53.125			47.70			3			1					12.5	

GRADING FOR GUARDRAIL INSTALLATIONS

Refer to EW-301.

(1) Lane(s) to which the installation is adjacent.

Line No.	Direction of Traffic (1)	Station	Side	Foreslope at Guardrail	X1 (FT)	Y1 (FT)	X2 (FT)	Y2 (FT)	X3 (FT)	Y3 (FT)	X4 (FT)	Y4 (FT)	Z (FT)	Excavation Class 10 (CY)	Embankment-in-Place (CY)	Remarks
1.0	NB	413+28.00	Right	3 to 1	53.2	11.0	103.2	17.2			150.9	19.2	92.0		89.6	Z area is the only area that requires grading
2.0	SB	413+28.00	Left	3 to 1	53.2	11.0					100.8	15.0	76.0		46.6	Z area is the only area that requires grading
3.0	NB	415+95.00	Right	3 to 1	53.2	11.0					100.8	15.0	76.0		46.6	Z area is the only area that requires grading
4.0	SB	415+95.00	Left	3 to 1	53.2	11.0	103.2	17.2			150.9	19.2	92.0		89.6	Z area is the only area that requires grading

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8/15/22

REMOVAL OF STEEL BEAM GUARDRAIL

(1) Lane(s) to which the installation is adjacent.
(2) Includes length of End Terminals and End Anchors.

Line No.	No.	Direction of Traffic (1)	Station From	Station To	Side	Removal of Guardrail (2) (LF)
1.0	1	NB	412+18.00	413+28.00	Right	110.0
2.0	2	SB	412+43.00	413+28.00	Left	85.0
3.0	3	NB	415+95.00	416+80.00	Right	85.0
4.0	4	SB	415+95.00	417+05.00	Left	110.0

RUMBLE STRIPS

* Calculated at 18" width for Shoulder.
** For use with penetrating Engineered Fog Seal. Calculated at 2" wider than rumble strips.

Line No.	Road Identification	Station From	Station To	Surface Type	Rumble Strip Lane	Rumble Strip Type	Fog Seal Type	L (IN)	HMA Length (STA)	Fog Seal (SY)**	Remarks
1.0	IA 12	70+50.00	89+86.00	HMA	Centerline	Milled Sinusoidal Centerline Rumble Strips (HMA only)	Penetrating Engineered	12"	19.36	251.7	BEAVER CREEK BRG
2.0	IA 12	92+85.00	278+36.00	HMA	Centerline	Milled Sinusoidal Centerline Rumble Strips (HMA only)	Penetrating Engineered	12"	185.51	2411.6	INDIAN CREEK BRG
3.0	IA 12	281+34.00	407+19.00	HMA	Centerline	Milled Sinusoidal Centerline Rumble Strips (HMA only)	Penetrating Engineered	12"	125.85	1636.1	SIX MILE CREEK BRG
4.0	IA 12	411+23.00	84+59.00	HMA	Centerline	Milled Sinusoidal Centerline Rumble Strips (HMA only)	Penetrating Engineered	12"	253.10	3290.3	EQUATION STA. 570+59 (BK) = 0+00 (AH)
5.0	IA 12	96+72.00	116+61.00	HMA	Centerline	Milled Sinusoidal Centerline Rumble Strips (HMA only)	Penetrating Engineered	12"	19.89	258.6	END AT 45MPH OR GREATER SPEED LIMIT CHANGE
Total									603.71	7848.3	

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.

108_23A
8/15/22

TRAFFIC CONTROL PLAN

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 Tab. 105-4 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.

108_26A
8/15/22

STAGING NOTES

1. Complete all patching.

2. Complete micro-milling.

3. Apply temporary pavement markings.

4. Perform scrub seal application.

5. Apply second round of temporary pavement markings.

6. Install centerline rumble strips.

7. Apply permanent pavement markings.

111_01

10/14/22

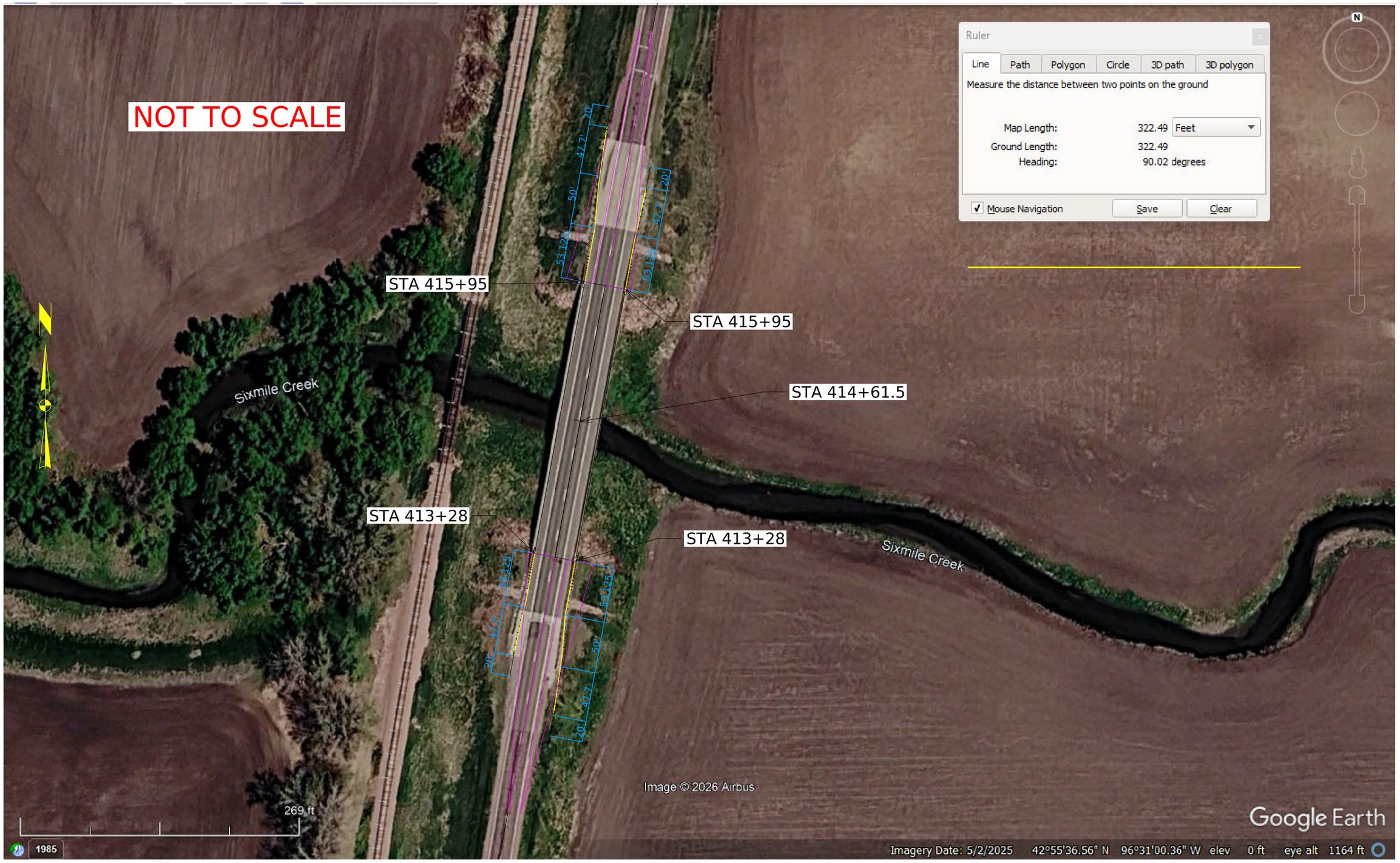
COORDINATED OPERATIONS

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
N/A	

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 12	NB	Plymouth					None					PLYMOUTH/SIOUX CO.



FILE NO.	ENGLISH	DESIGN TEAM **DISTRICT 3**	**PLYMOUTH/SIOUX** COUNTY	PROJECT NUMBER **STPN-012-2(052)--2J-75**	SHEET NUMBER **U.1**	

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