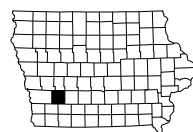


CASS COUNTY

Bridge-Unspecified
BRF-006-2(046)--38-15

LETTING DATE
Jan 19 2028



INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 3	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	US Highway 6
G Sheets	Survey Sheets
G.1 - 4	Reference Ties and Bench Marks
J Sheets	Traffic Control and Staging Sheets <-- H Sheets
* J.1	Traffic Control Plan
* J.2	Detour Route
V Sheets	Bridge and Culvert Situation Plans
* V.1 - 2	US Highway 6 Bridge Situation Plans
W Sheets	Mainline Cross Sections
* W.1	Cross Sections Legend & Symbol Information Sheet
* W.2 - 16	US Highway 6 Cross Sections
	* Color Plan Sheets



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
CASS COUNTY
 Bridge-Unspecified
 Spring Creek 1.4 mi E of IA 48

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



REVISIONS

TOTAL

31

PROJECT IDENTIFICATION NUMBER

22-15-006-010

PROJECT NUMBER

BRF-006-2(046)--38-15

R.O.W. PROJECT NUMBER

STPN-006-2(47)--2J-15

D5 Submittal 03-18-2026
Revised 2026-03-18

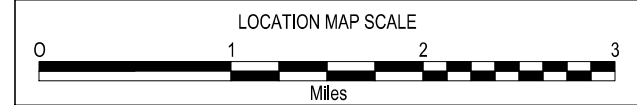
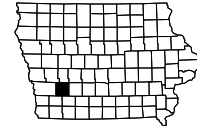
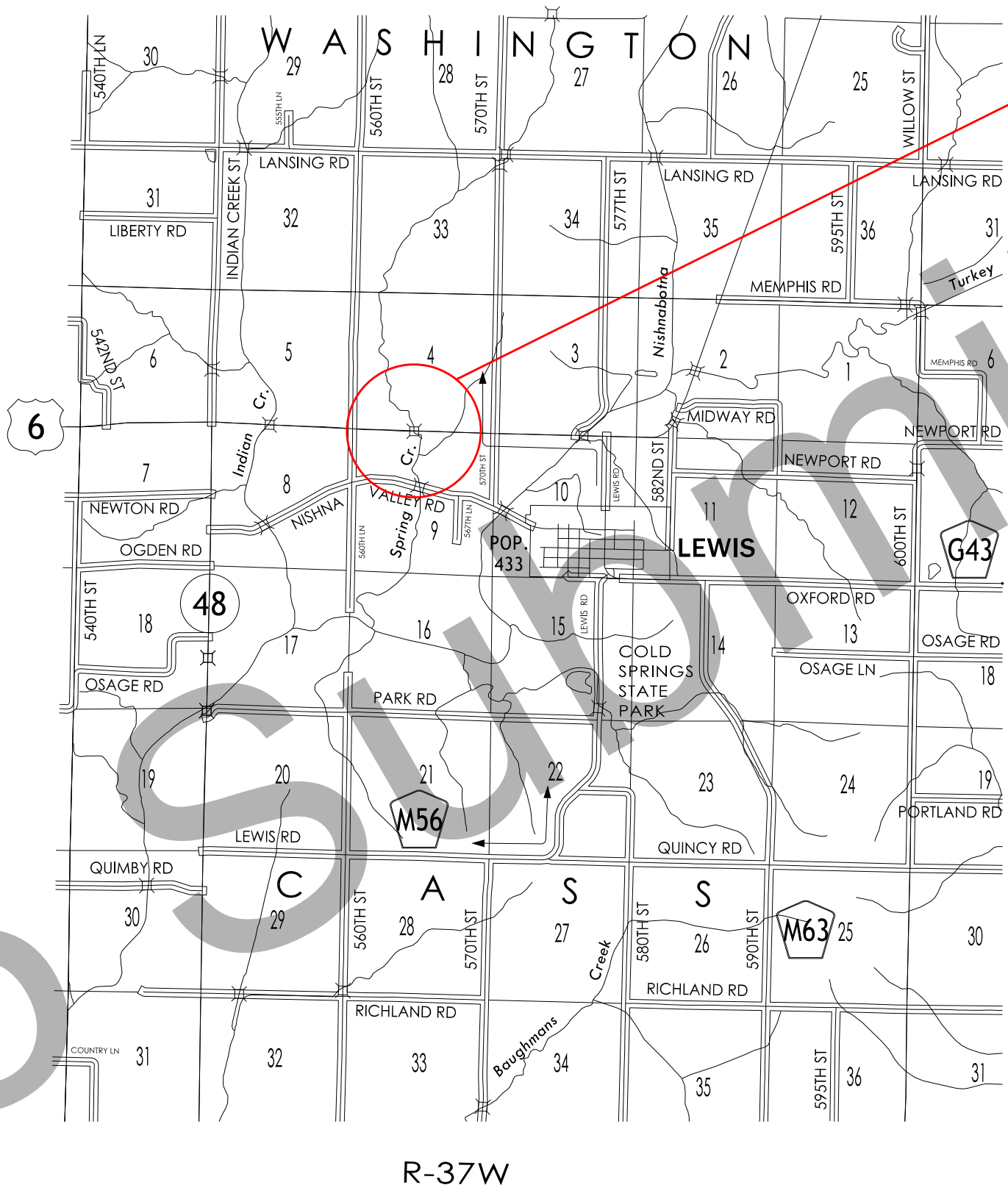
INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	Kelly C. Bell	Primary Signature Block	X
X	X	X	X

PRELIMINARY PLANS

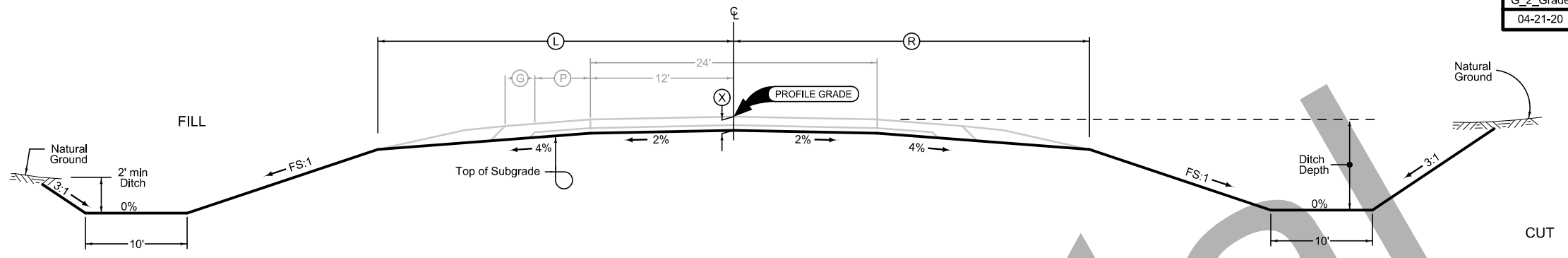
Subject to change by final design.

D5 Revision - Date: 03-18-2026

BRIDGE PROJECT LOCATION
 Spring Creek 1.4 mi E of IA 48
 FHWA/ASSET ID#: 17390
 Maint. No. 1544.2S006



LOCATION		DIMENSIONS				
ROAD IDENTIFICATION	STATION TO STATION	(L)	(R)	(X)	FS	
		Feet	Feet	Inches		
US 6	834+73.00	834+93.00		27.1-30.0	24.0	3
	834+93.00	835+25.00		30.0	24.0	3
	835+25.00	835+33.65	26.8-28.2	30.0	24.0	3
	835+33.65	835+45.00	28.2-30.0	30.0-33.1	24.0	3
	835+45.00	835+51.51	30.0	33.1-34.8	24.0	3
	835+51.51	835+69.38	30.0-31.6	34.8-34.6	24.0	3
	835+69.38	835+71.51	31.6-32.3	34.6-34.5	24.0	3
	835+71.51	835+82.80	32.3-36.3	34.5-33.9	24.0	3
	835+82.80	836+02.80	36.3-37.5	33.9-32.9	24.0	3
	836+02.80	836+19.24	37.5-33.7	32.9-32.3	24.0	3
	836+19.24	836+49.28	33.7-31.1	32.3-32.0	24.0	3
Bridge and Approaches						
US 6	839+96.72	840+26.76	32.7-32.9	31.7-32.9	24.0	3
	840+26.76	840+43.20	32.9-33.6	32.9-33.6	24.0	3
	840+43.20	840+63.20	33.6-34.4	33.6	24.0	3
	840+63.20	840+74.49	34.4-34.8	33.6-30.8	24.0	3
	840+74.49	840+85.00	34.8	30.8-28.2	24.0	3
	840+85.00	840+94.49	34.8		24.0	3
	840+94.49	841+19.49	34.8-28.5		24.0	3
	841+19.49	841+20.00	28.5-28.4		24.0	3

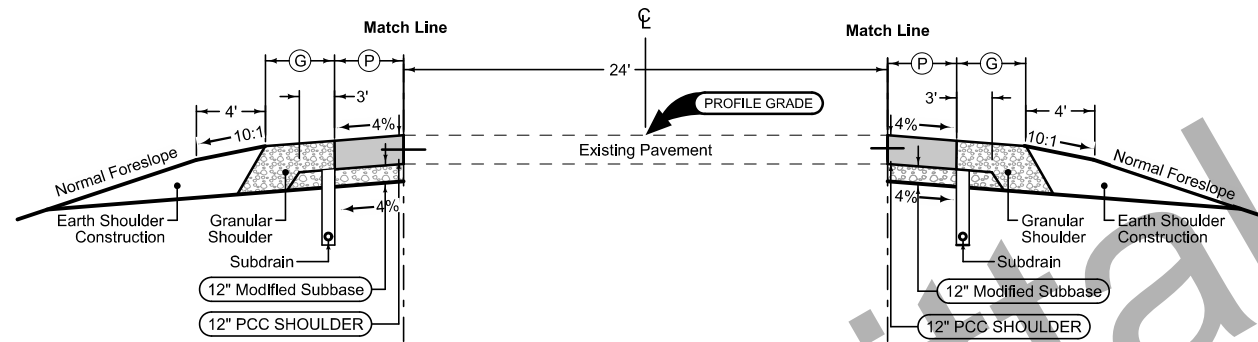


Normal section shown may be modified appropriately in areas of superelevated curves or other locations specifically designated by the Engineer.

See plan & profile sheets and cross sections for additional details of ditches and backslopes.

2 LANE GRADING

D55 Submitted



Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

STATION TO STATION		(P) Feet	(G) Feet
835+25.00	835+69.61	4	4
835+69.61	835+82.80	4	4-7.5
840+94.49	841+20.00	4	8.8-2

Combination Shoulder

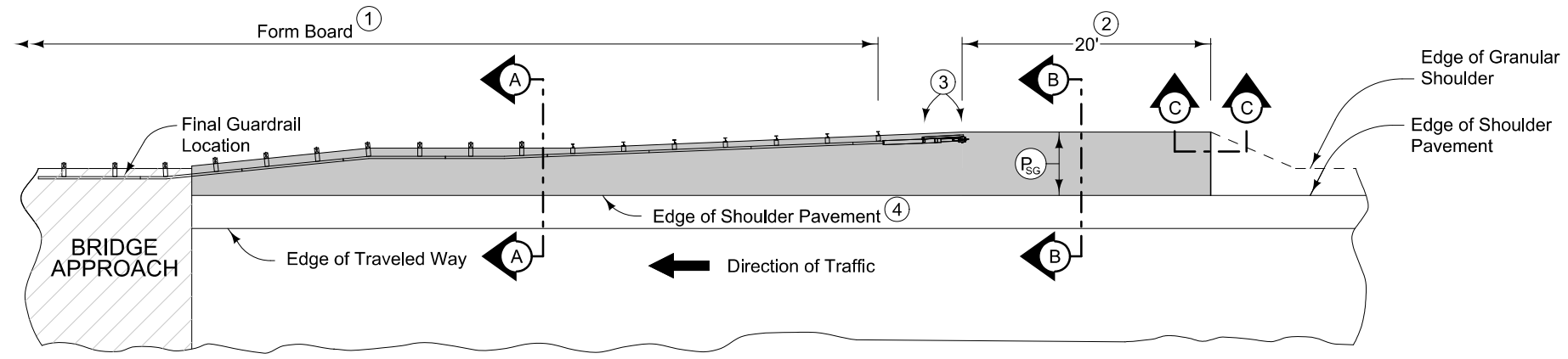
Shoulder Jointing:
Longitudinal joint: B

STATION TO STATION		(P) Feet	(G) Feet
834+73.00	835+33.65	4	4
835+33.65	835+51.51	4	4-8.8
840+63.20	840+85.00	4	7.5-2

See Tab 112-9 for shoulder quantities.

US Highway 6

Revised D5 Submitted 2026-03-18

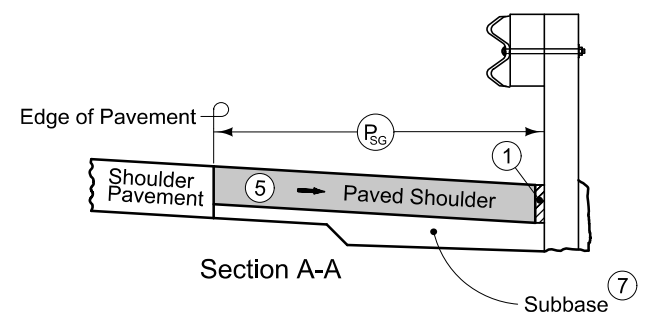


PLAN VIEW

8" PCC Paved Shoulder at guardrail with the following jointing layout:

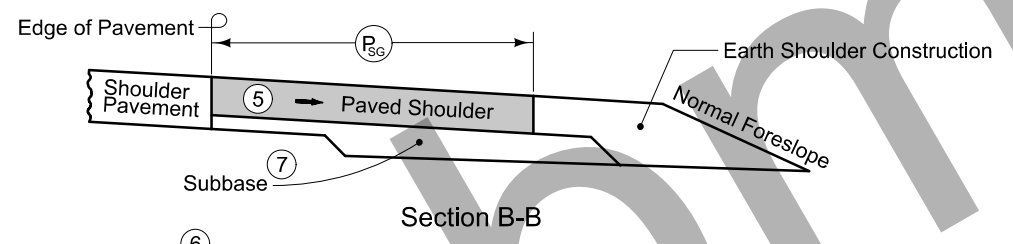
Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal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

Refer to Tabulation 112-9 for shoulder quantities.



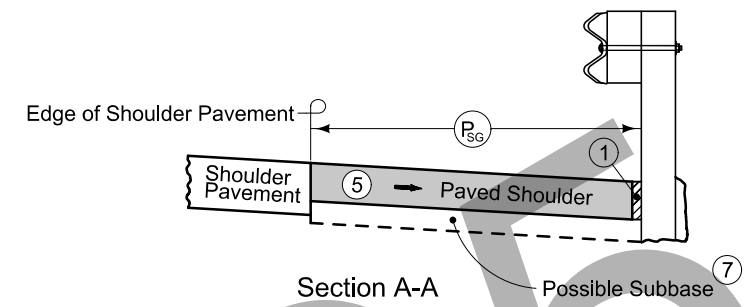
Section A-A

NEW CONSTRUCTION



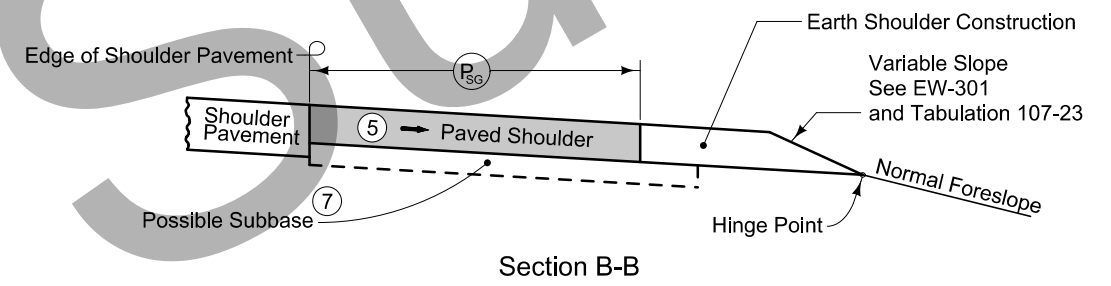
Section B-B

- ① 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.
- ② Continue paved shoulder 20 feet beyond the center of the first post.
- ③ Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.
- ④ 'BT' joint (per PV-101) for PCC shoulder.
- ⑤ Match shoulder slope.
- ⑥ The Contractor has the option to pave the paved shoulder at guardrail and the partial width paved shoulder as one operation.
- ⑦ Refer to other details in the plan.

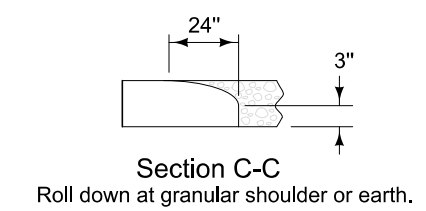


Section A-A

EXISTING SHOULDER



Section B-B



PAVED SHOULDER AT GUARDRAIL (ADJACENT TO PARTIAL WIDTH PAVED SHOULDER)

SURVEY SYMBOLS

- Interstate Highway Symbol
- U.S. Highway Symbol
- Iowa Highway Symbol
- County Road Highway Symbol
- Evergreen Tree
- Deciduous Tree
- Fruit Tree
- Shrub (Bushes)
- Timber
- Hedge
- Stump
- Swamp
- Rock Outcrop
- Broken Concrete
- Revetment (Rip Rap)
- Cemetery
- Grave
- Cave
- Sink Hole
- Board Fence
- Chain Link or Security Fence
- Wire Fence
- Terrace
- Earth Dam or Dike (Existing)
- Tile Outlet
- Edge of Water
- Existing Drainage
- Right of Way Rail or Lot Corner
- Concrete Monument
- Well
- Windmill
- Beehive Intake
- Existing Intake
- Existing Utility Access (Manhole)
- Fire Hydrant
- Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish
- Water Hook Up
- Radio Tower
- Tower Anchor
- Guardrail (Beam or Cable)
- Guard Post (one or two)
- Guard Post (over two)
- Filler Pipe
- Gas Valve
- Water Valve
- Speed Limit Sign
- Mile Marker Post
- Sign
- Traffic Signal Control Box
- Rail Road Signal Control Box
- Telephone Switch Box
- Electric Box

UTILITY LEGEND

SURVEYED UTILITY OWNER SYMBOLS

Sub-Surface Utility Mapping Quality Level is in accordance with CI/ASCE 38-02 Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

Remark Abbreviations
 QLA Quality Level A Highest guideline quality level
 QLD Quality Level D Lowest guideline quality level

PPA, MidAmerican Electric

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE 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	
SHADING		Design Color No.		Transparency
Pink, Dark	(13)		Temporary Pavement Shading	50%
Yellow	(4)		Proposed Pavement Shading	50%
Orange	(6)		Proposed Granular Shading	50%
Orange	(70)		Proposed Shoulder Granular Shading	50%
Yellow	(68)		Proposed Shoulder Paved Full Depth Shading	50%
Yellow	(132)		Proposed Shoulder Paved Partial Depth Shading	50%
Brown, Light	(236)		Grading Shading	50%
Orange, Light	(134)		Proposed Granular Entrance Shading	50%
Yellow	(220)		Proposed Paved Entrance Shading	50%
Tan	(8)		Proposed Sidewalk Shading	50%
Blue, Light	(230)		Proposed Sidewalk Landing Shading	50%
Pink	(11)		Proposed Sidewalk Ramp Shading	50%
Red	(3)		Proposed Structure Shading	50%
Red	(3)		Delineates Restricted Areas	0%

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(10)		Existing Ground Line Profile
Blue	(1)		Proposed Profile and Annotation
Magenta	(5)		Existing Utilities
Blue, Light	(230)		Proposed Ditch Grades, Left
Black	(0)		Proposed Ditch Grades, Median
Rust	(14)		Proposed Ditch Grades, Right

- Reference Point
- Station
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

- Proposed Right-of-Way Symbol
- Proposed Right-of-Way Line
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary) Symbol
- Easement (Temporary) Line
- Easement
- C/A Access Control
- Property Line Symbol
- Property Line

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)

Survey Information

SURVEY INDEX

Cass County
BRF-006-2(46)--38-15
Spring Creek 1.4 mi E of IA 48
PIN: 22-15-006-010
Type of Work: Bridge Unspecified
Project Directory: 1500601022

Survey Personnel

Paul Harry – Survey Party Chief
Bob Fredrickson – Assistant Survey Party Chief

Date(s) of Survey

Begin Date 08/24/2023
End Date 11/08/2023

General Information

This survey is for US Hwy 6 Bridge over Spring Creek. This project is a Full Field DTM survey.

Utility Information

For logging data and other utility details see Utility Survey and Ownership Report in the Utility folder of the PrelimSurvey project directory.

Project Control

Coordinates were determined for primary project control points by conducting concurrent six-hour static observations. Post processing is constrained to nearby Iowa Real Time Network reference stations. For additional details of the control survey, contact the Preliminary Survey department.

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 07
(U. S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u2

Alignment Information

The horizontal alignment for U.S. Hwy 6 was provided by the District 4 ROW Office.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 07 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u2

Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.



HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 07 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u2

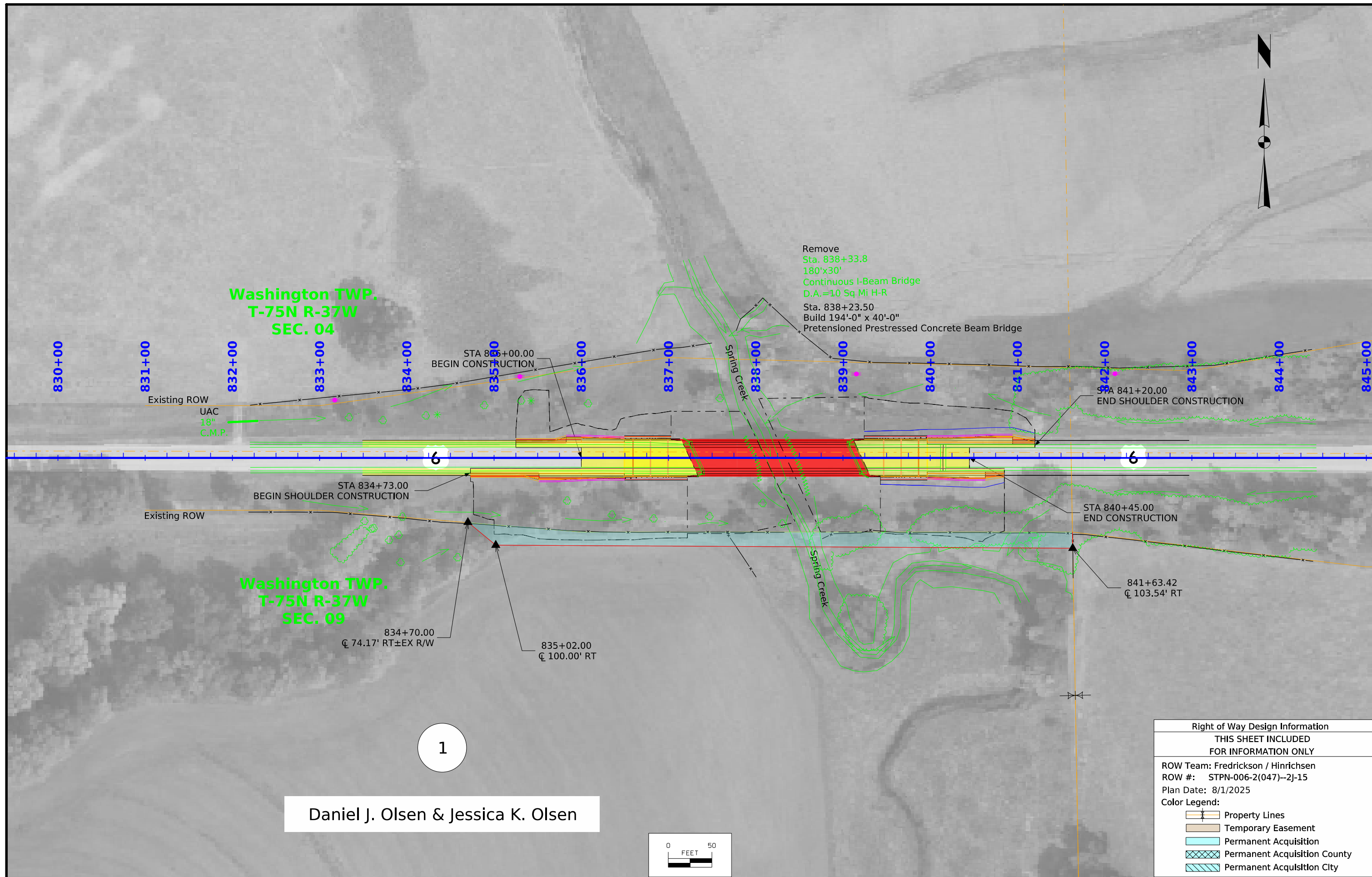
Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING
 HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment)
 Ia. Regional Coordinate System Zone 07 (U.S. Survey Foot)
 VERT. DATUM: NAVD88
 Geoid Model: 2018u2

Point Name	Northing	Easting	Elevation	Code-Description
150060438	7189318.66	17366793.20	1225.08	CP SET FENO MONUMENT IN THE SOUTHWEST QUADRANT OF THE INTERSECTION OF US HWY 6 AND 560TH ST
150060448	7189312.01	17372202.75	1199.07	CP SET FENO MONUMENT IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF US HWY 6 AND 570TH ST
C99	7159240.93	17360801.76	1102.55	CP FND NGS 2ND ORDER CLASS 0 VERTICAL MARK AS DESCRIBED
LEWIS	7197048.17	17372399.80	1272.67	CP FND NGS 2ND ORDER HORIZONTAL MARK AS DESCRIBED

D55 Submitted

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.



Daniel J. Olsen & Jessica K. Olsen

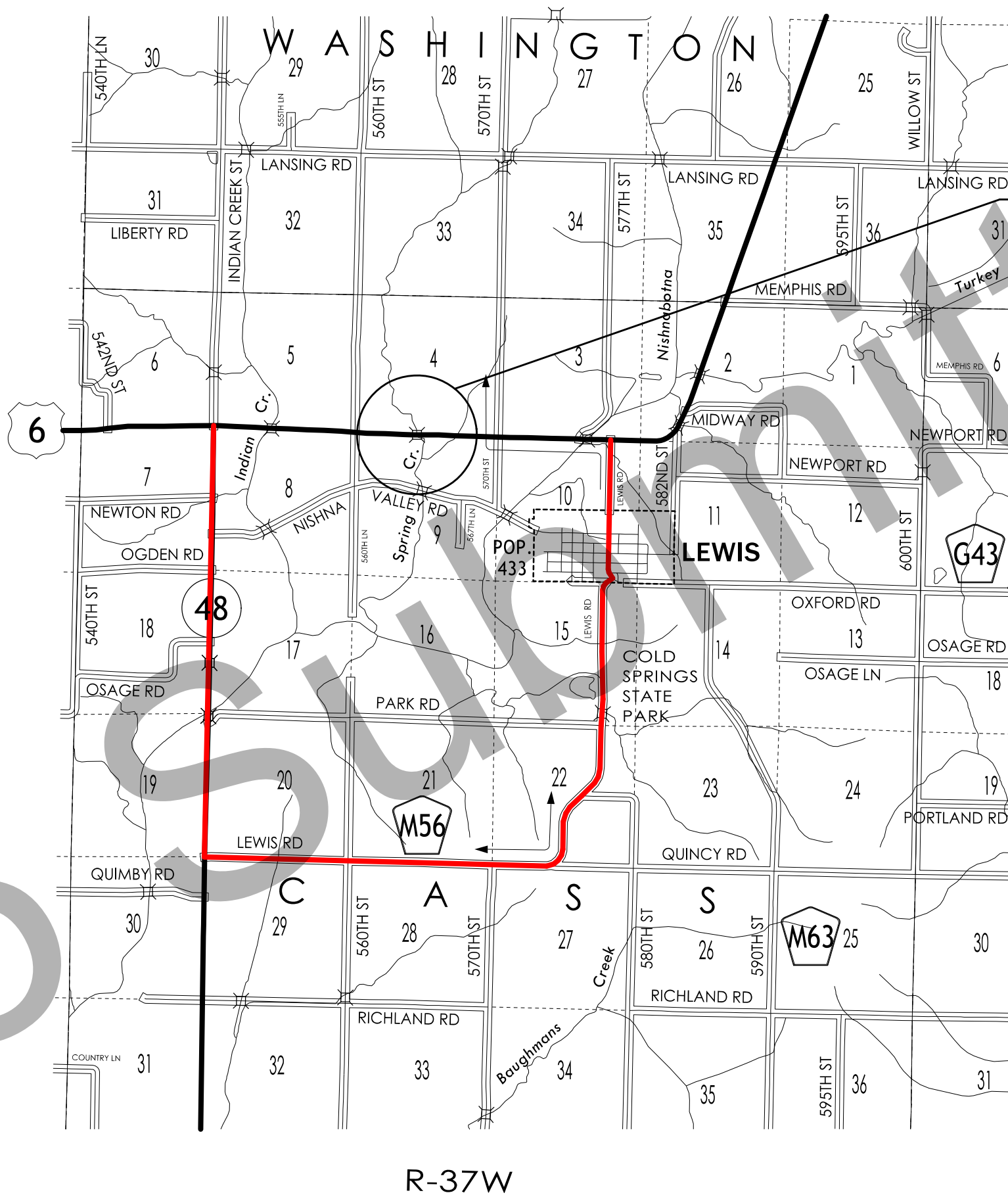
Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: Fredrickson / Hinrichsen	
ROW #: STPN-006-2(047)--2J-15	
Plan Date: 8/1/2025	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition
	Permanent Acquisition County
	Permanent Acquisition City

TRAFFIC CONTROL PLAN	108-23A 08-01-08
US 6 will be closed to thru traffic during construction. US 6 traffic shall be maintained via offsite detour. See Sheet J.2 for detour.	

511 TRAVEL RESTRICTIONS											108-25 10-21-14	
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			No Travel Restrictions expected at this time									

COORDINATED OPERATIONS		111-01 04-17-12
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	
None provided		

D55 Submitted



BRIDGE PROJECT LOCATION
 Spring Creek 1.4 mi E of IA 48
 FHWA/ASSET ID#: 17390
 Maint. No. 1544.2S006

Detour Route



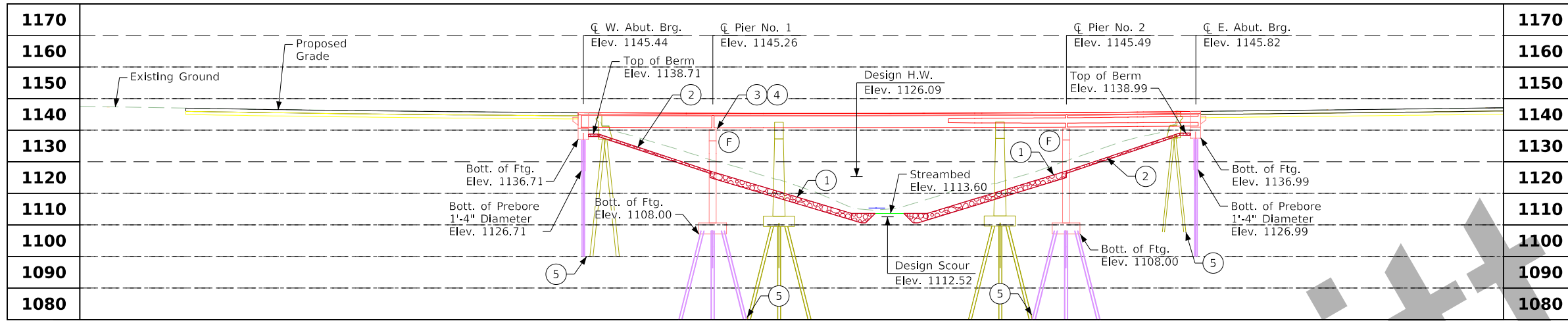
NOT TO SCALE



D5

T-75N

R-37W



Hydraulic Data

RIDB: Not Applicable
 Drainage Area = 9.38 Sq. Mi.
 Stream Slope (HGL) = 15.62 ft./Mi.
 Avg. Low Water Stage = 1119.47

Q₂₅ = 2,785 cfs
 Stage = 1127.02

Q₅₀ = 3,422 cfs
 Stage = 1126.09
 Channel Low Beam = 1140.08 ft.
 Avg. Bridge Velocity = 5.62 fps

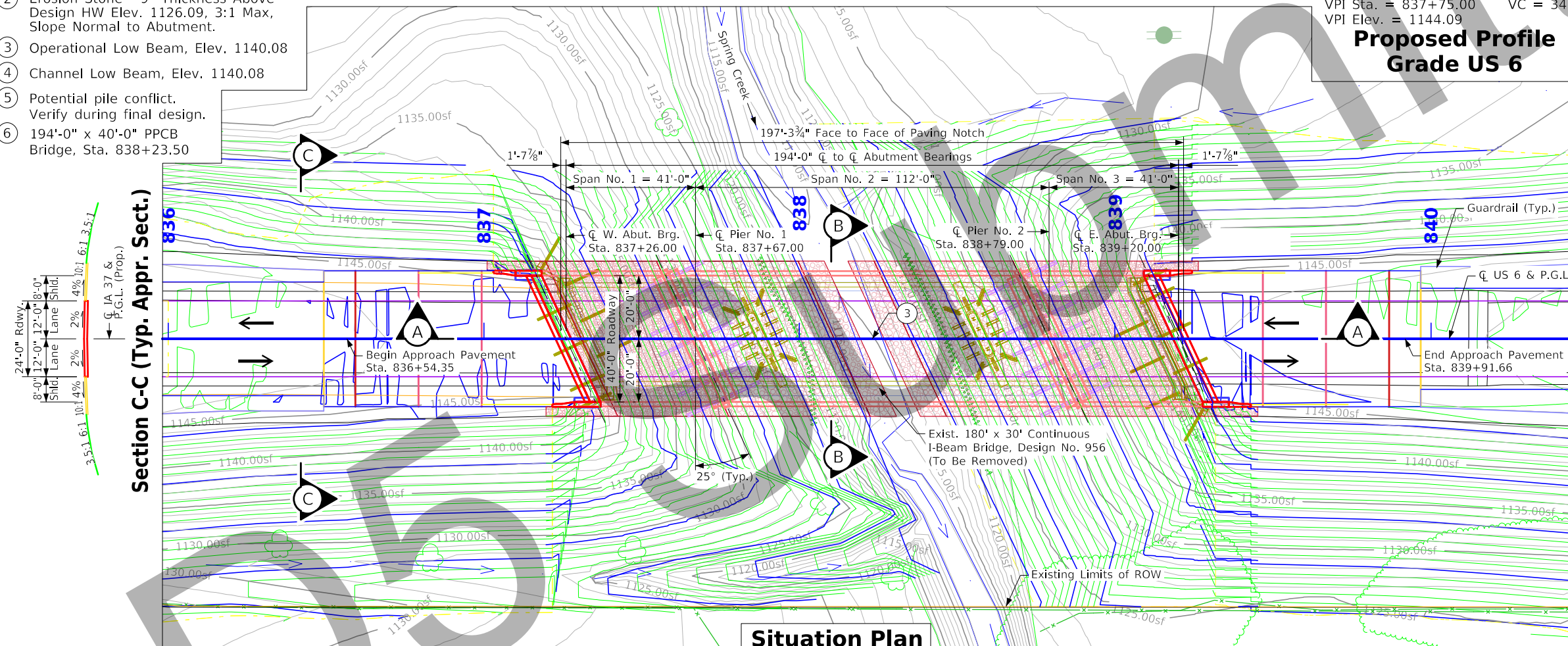
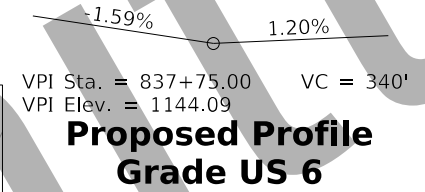
Q₁₀₀ = 4,104 cfs
 Stage = 1126.81
 Operational Low Beam = 1140.08
 Backwater = (+)1.55 ft.
 Avg. Bridge Velocity = 6.02 fps

Q₂₀₀ = 4,815 cfs
 Stage = 1127.48
 Calculated Design Scour = 1112.52

Q₅₀₀ = 5,653 cfs
 Stage = 1128.18
 Channel Freeboard = 11.9 ft.
 Avg. Bridge Velocity = 6.76 fps
 Calculated Check Scour = 1111.93

- ① Class E Revetment - 2' Thickness, 3:1 Max, Slope Normal to Abutment.
- ② Erosion Stone - 9" Thickness Above Design HW Elev. 1126.09, 3:1 Max, Slope Normal to Abutment.
- ③ Operational Low Beam, Elev. 1140.08
- ④ Channel Low Beam, Elev. 1140.08
- ⑤ Potential pile conflict. Verify during final design.
- ⑥ 194'-0" x 40'-0" PPCB Bridge, Sta. 838+23.50

Section A-A (Longitudinal Section Along CL Prop. US 6)



Site is located within Cass County
 F.I.S. = May 16, 2017
 F.I.S. Datum = NAD83 GRS 1980 Spheroid
 F.I.S. Base Flood = Not Applicable

Scour depths based on preliminary data and shall be verified once geotechnical report is available.

General Notes:
 This design is for the replacement of the existing 180' x 30' Continuous I-Beam Bridge, Cass Design No. 956. FHWA No. 17390. Maint. No. 1544.2S006

Design Notes:
 1. TL-4 single slope bridge railing proposed.
 2. Standard integral abutments.
 3. Pier Type - T Pier (Assumed Width = 2'-10")
 4. Beam Type - BTC.
 5. Class E Revetment Stone.
 6. Existing substructure and piles to be removed to 1' below proposed grade.
 7. Final design to take into account proposed pier piling may be in conflict with existing piling.

Plan Notes:
 1. Top of bridge deck at centerline roadway is 0.03" below the profile grade to account for parabolic crown.
 2. Class E Revetment Stone is embedded.

US 6 Traffic Est.

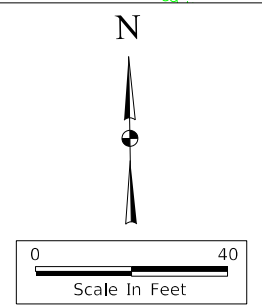
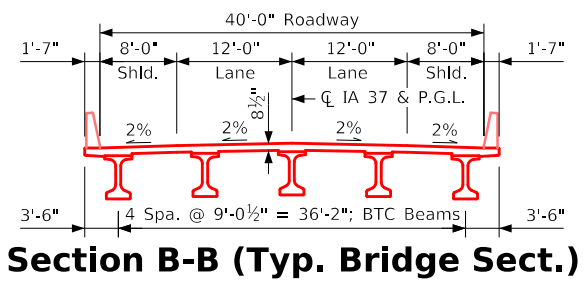
2024 AADT	1,760	V.P.D.
2044 AADT	--	V.P.D.
2044 DHV	--	V.P.H.
Trucks	14	%
Total Design ESALS	--	

Utilities Legend

● PPA, MidAmerican Electric
 Utilities shown on this sheet are for information only, see Road Design sheets for final utility information.

Location

US 6 over Spring Creek
 T-75N R-37W
 Sections 4 & 9
 Washington Township
 Cass County
 Bridge Maint. No. 1544.2S006
 FHWA No. 17391
 Latitude 41.317466°
 Longitude -95.110067°



Preliminary

Design For 25° Skew (R.A.)

194'-0" x 40'-0" Prestressed Concrete Beam Bridge

41'-0" End Spans 112'-0" Interior Span

Situation Plan

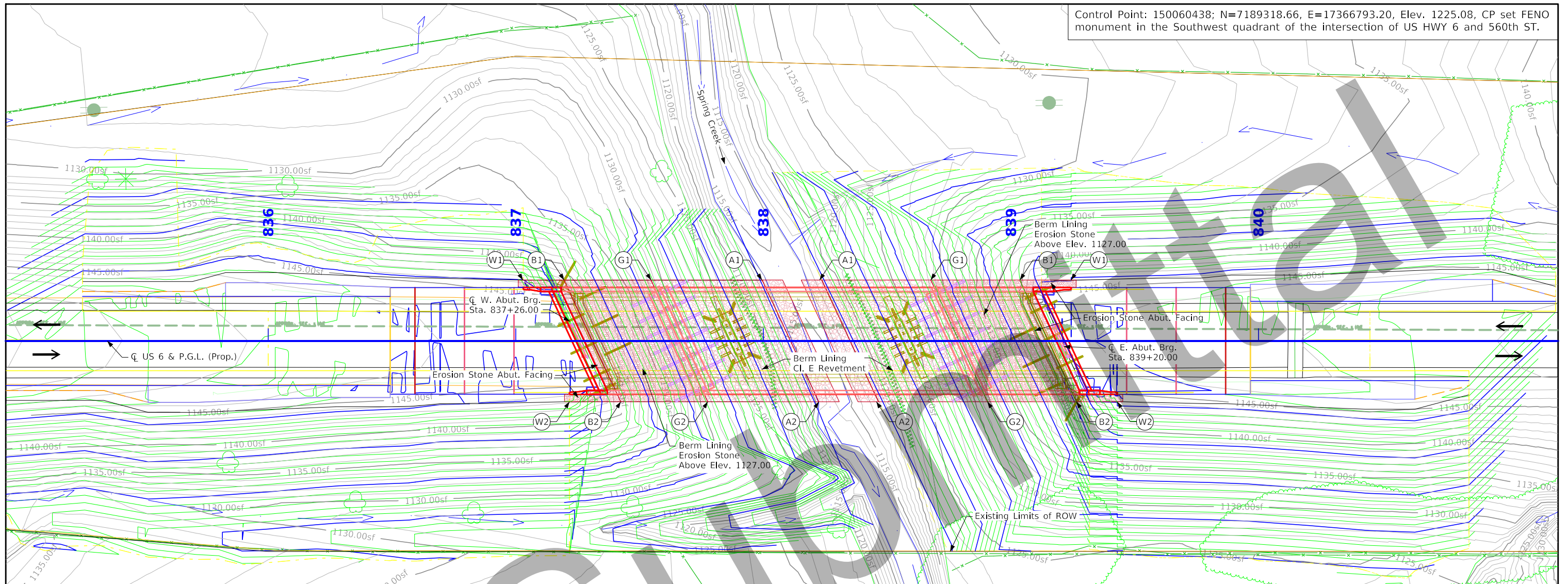
STA. 838+23.50 (US 6) Turn-in Date: November 2024

Cass County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 0128 Design Sheet No. 1 of 2 FHWA No. 17391

Control Point: 150060438; N=7189318.66, E=17366793.20, Elev. 1225.08, CP set FENO monument in the Southwest quadrant of the intersection of US HWY 6 and 560th ST.



Berm Slope Location Table

Points	West Abutment			East Abutment		
	Station	Offset	Elev.	Station	Offset	Elev.
A1	837+99.50	24.58' Lt.	1113.60	838+23.57	24.58' Lt.	1113.60
A2	838+22.43	24.58' Rt.	1113.60	838+46.50	24.58' Rt.	1113.60
B1	837+19.50	24.58' Lt.	1138.68	839+03.57	24.58' Lt.	1139.04
B2	837+42.43	24.58' Rt.	1138.68	839+26.50	24.58' Rt.	1139.04
W1	837+03.02	24.58' Lt.	1145.07	839+24.33	24.58' Lt.	1145.35
W2	837+21.67	24.58' Rt.	1144.94	839+42.98	24.58' Rt.	1145.55

Berm Slope Elevations Reflect The Grading Surface

Notes:
GCL - Grading Control Line

Estimated Berm Armoring Quantities

Revetment Type - Location	Revetment Cl. E (Ton)	Erosion Stone (Ton)	Engineering Fabric (SY)	Excavation Class 10, Channel (CY)
Berm Lining, Stone Toe - West	330.1	92.8	558.4	264.3
Berm Lining, Stone Toe - East	325.0	94.7	558.4	262.3
Totals	655.1	187.5	1,116.8	526.6

Excavation quantity calculated from grading surface.
Revetment and Erosion Stone estimated at 1.6 Ton/CY



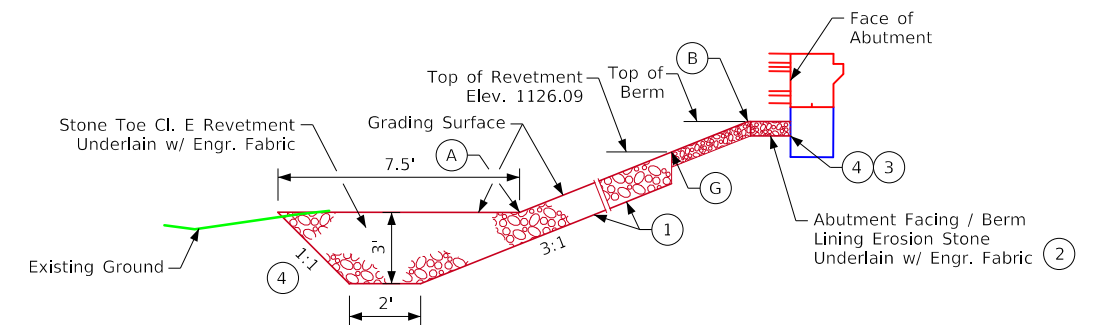
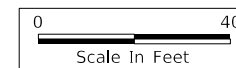
West Berm/Bank Grading Control:

- G1 837+54.63, 24.58' Lt., Revetment, GCL, Elev. 1127.00
- G2 837+77.56, 24.58' Rt., Revetment, GCL, Elev. 1127.00

East Berm/Bank Grading Control:

- G1 838+67.60, 24.58' Lt., Revetment, GCL, Elev. 1127.00
- G2 838+90.53, 24.58' Rt., Revetment, GCL, Elev. 1127.00

Site Plan



Section Through Embedded Berm/Bank Lining and Stone Toe at Banks

Hydraulic 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: *Kate Barnes* Date: **1-30-25**
Printed or Typed Name: Kate Barnes
My license renewal date is December 31, 2025

Pages or sheets covered by this seal: Sheets V.1 & V.2

Preliminary

Design For 25° Skew (R.A.)
194'-0" x 40'-0" Pretensioned Prestressed Concrete Beam Bridge
41'-0" End Spans 112'-0" Interior Span
Situation Plan - Site
STA. 838+23.50 (US 6) Turn-in Date: November 2024
Cass County
IOWA DEPARTMENT OF TRANSPORTATION
Design No. 0128 Design Sheet No. 2 of 2 FHWA No. 17391

- ① Slope normal to \bar{C} Abut. / Grading Control Line.
- ② Extend facing out to lateral limits of wing armoring.
- ③ Carry engineering fabric up to face of abutment.
- ④ Slope normal to bank grading control line (GCL).

CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature	Design Color No.	Feature
Aggregate			
(64)	Choke Stone	(8)	Behind Curb Cut
(42)	Engineering Fabric	(6)	Granular
(8)	Flooded Backfill	(13)	Granular Back Fill
(92)	Macadam Stone	(48)	Rock Undercut
(20)	Modified	(8)	Shoulder Earth Fill
(12)	Plowing Shaping	(2)	Side Slopes
(14)	Porous Backfill	(226)	Side Slopes Dressing
(8)	Revetment Class A	Substrata	
(6)	Revetment Class B	(128)	Boulder
(62)	Revetment Class C	(209)	Boulder Removed
(188)	Revetment Class D	(48)	Broken Weathered
(28)	Revetment Class E	(210)	Broken Weathered Removed
(12)	Shoulder Special Backfill	(3)	Core Out
(12)	Special Backfill	(115)	Core Out Remove Only
(20)	Subbase	(195)	Core Out Remove and Replace
(20)	Subbase Lower	(203)	Existing Pavement
(20)	Subbase Upper	(184)	Existing Pavement Remove Only
(118)	Subgrade Treatment	(200)	Existing Pavement Remove and Replace
Asphalt			
(207)	HMA Base Course	(6)	Loam
(207)	HMA Interim Course	(211)	Loam Removed
(207)	HMA Surface Course	(80)	Rock
Bridge			
(0)	Bridge	(212)	Rock Removed
Concrete			
(0)	Barrier Concrete	(4)	Select Sand
(0)	Barrier Concrete Footing	(214)	Select Sand Removed
(0)	Curb Gutter	(3)	Shale
(48)	Flowable Mortar	(215)	Shale Removed
(0)	Median Concrete	(10)	Topsoil
(0)	PCC Pavement	(2)	Topsoil Remove Only
(0)	Sidewalk	(4)	Topsoil Remove and Replace
Existing			
(0)	Existing Pavement	Unsuitable / Waste	
Shoulder			
(209)	Shoulder HMA	(3)	Unsuitable Type A
(0)	Shoulder PCC	(216)	Unsuitable Type A Removed
(6)	Shoulder Granular	(13)	Unsuitable Type B
Structural			
(112)	Noise Wall	(217)	Unsuitable Type B Removed
(112)	Noise Wall Footing	(11)	Unsuitable Type C
(112)	Retaining Wall Back	(218)	Unsuitable Type C Removed
(112)	Retaining Wall Back Excavate	(3)	Waste
(112)	Retaining Wall Face	(219)	Waste Removed
(112)	Retaining Wall Front Excavate		
(112)	Retaining Wall Front Footing		
(112)	Retaining Wall MSE Gutter		
(112)	Retaining Wall Reinforced Earth		

NOTES:

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CROSS SECTIONS LEGEND AND INFORMATION SHEET

(COVERS SHEET SERIES W, X, Y, & Z)

