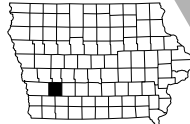


CASS COUNTY

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
* 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

<--- H Sheet

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



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

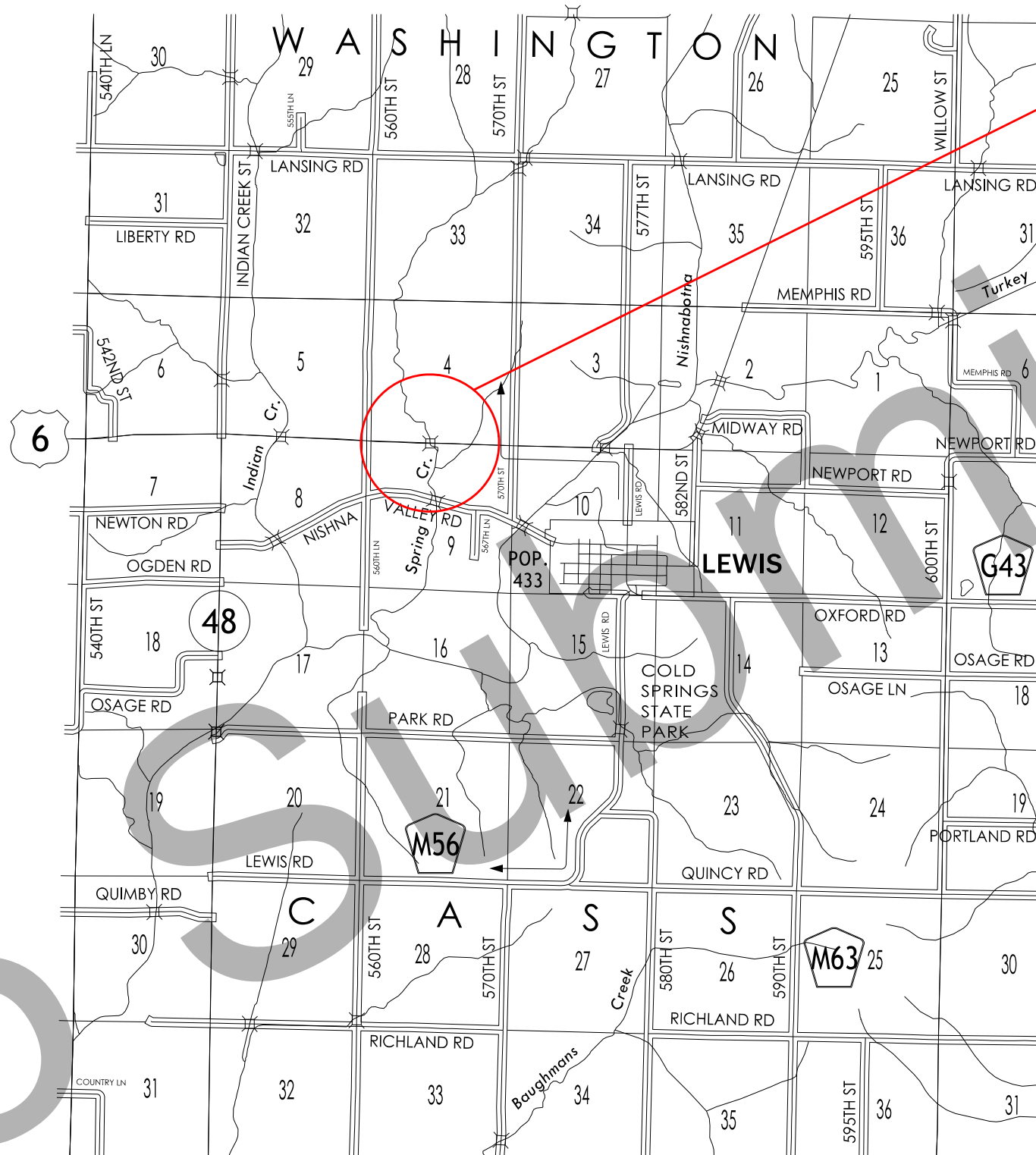
REVISIONS

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	

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 04-21-2025

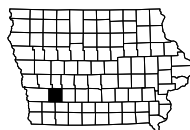
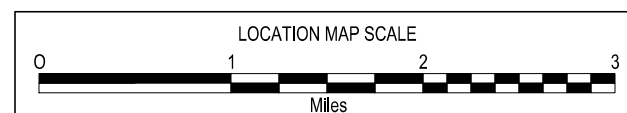


BRIDGE PROJECT LOCATION
Spring Creek 1.4 mi E of IA 48
FHWA/ASSET ID#: 17390
Maint. No. 1544.2S006

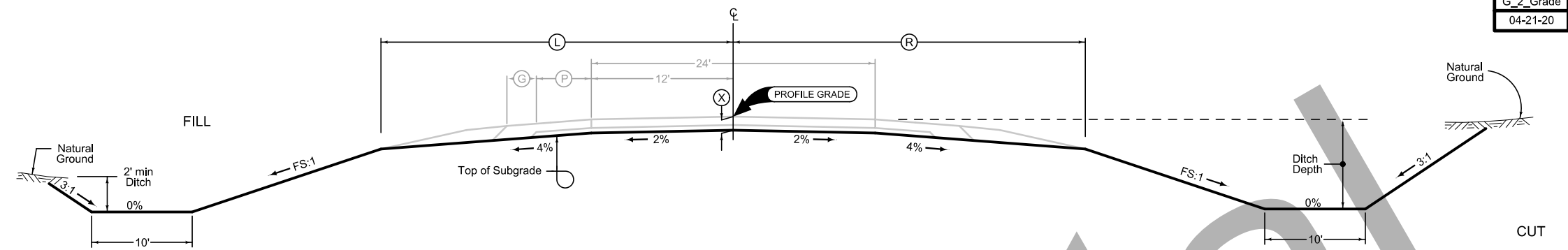


T-75N

R-37W



LOCATION			DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		Ⓐ Feet	Ⓑ Feet	Ⓒ Inches	FS
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.

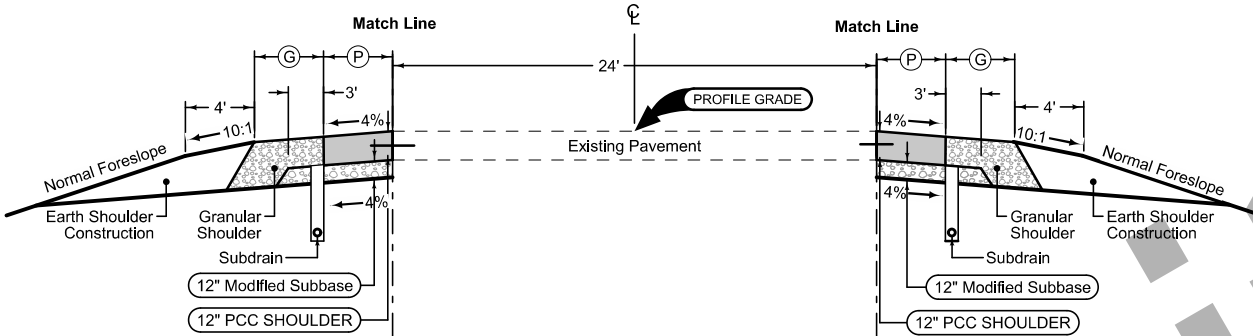
See plan & profile sheets
and cross sections for
additional details of
ditches and backslopes.

2 LANE GRADING

Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

		2_C_04-21-20	
STATION TO STATION		(P) Feet	(G) Feet
835+25.00	835+62.15	6	2
835+62.15	835+82.80	6	2-8.5
840+94.49	841+20.00	6	9.8-2



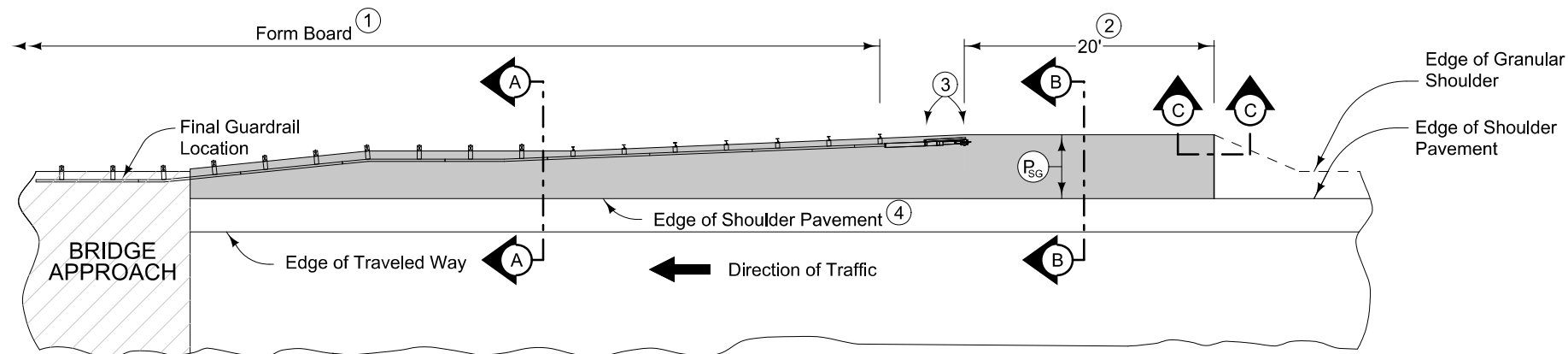
Combination Shoulder

Shoulder Jointing:
Longitudinal joint: B

		2_C_04-21-20	
STATION TO STATION		(P) Feet	(G) Feet
834+73.00	835+26.19	6	2
835+26.19	835+51.51	6	2-9.8
840+63.20	840+85.00	6	8.5-2

See Tab 112-9 for shoulder quantities.

US Highway 6



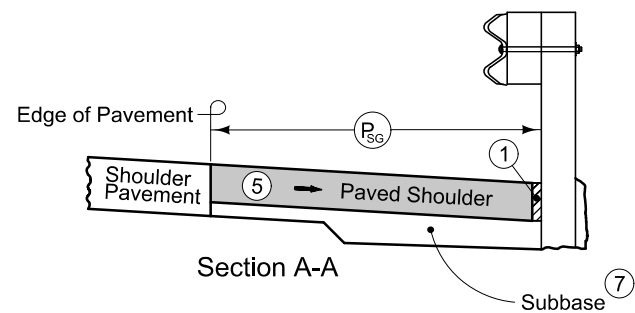
PLAN VIEW

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

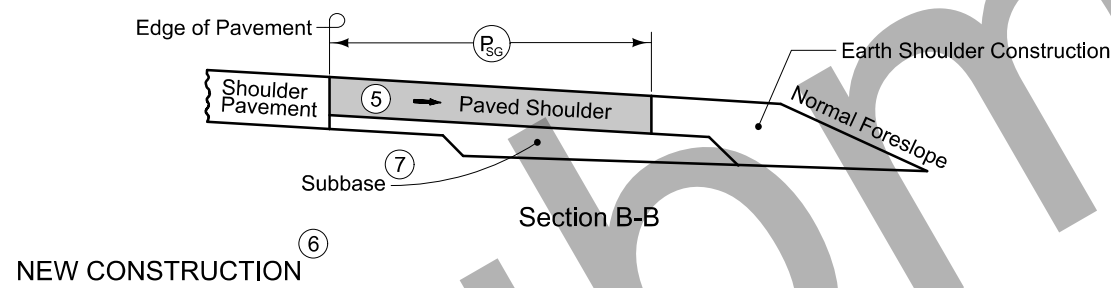
Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'C' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'C' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal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

Refer to Tabulation 112-9 for shoulder quantities.

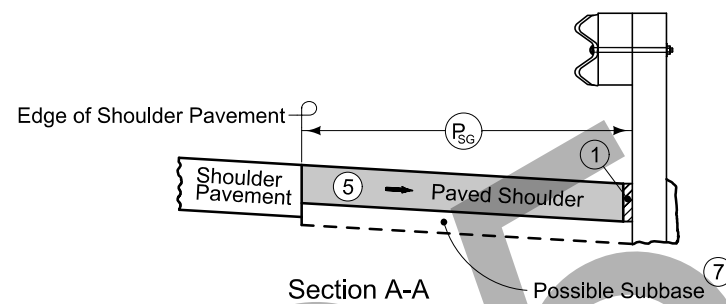
- 1 When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.
- 2 Continue paved shoulder 20 feet beyond the center of the first post.
- 3 Shoulder may be notched for first 2 posts or post sleeves may be installed 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.



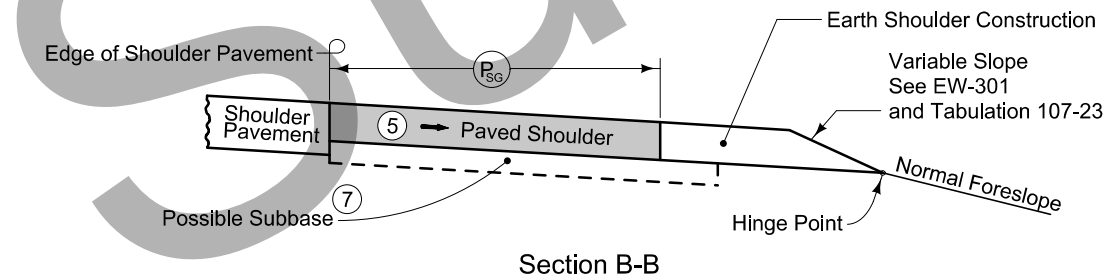
Section A-A



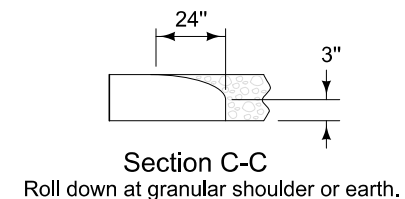
NEW CONSTRUCTION



Section A-A

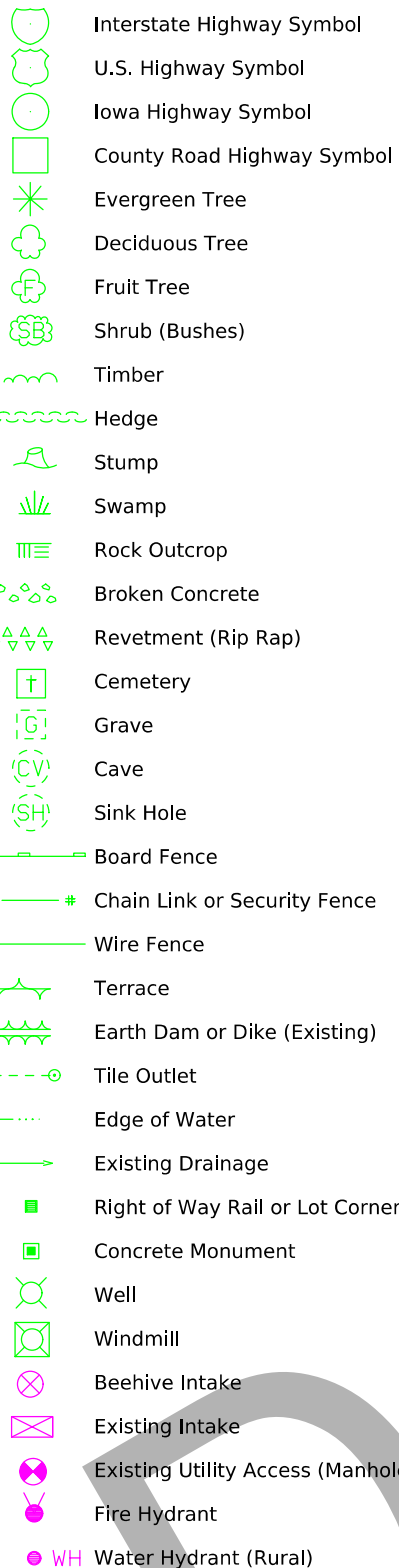


EXISTING SHOULDER



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

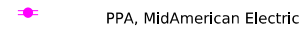
	Interstate Highway Symbol
	U.S. Highway Symbol
	Iowa Highway Symbol
	County Road Highway Symbol
	Evergreen Tree
	Deciduous Tree
	Fruit Tree
	Shrub (Bushes)
	Timber
	Hedge
	Stump
	Swamp
	Rock Outcrop
	Broken Concrete
	Revetment (Rip Rap)
	Cemetery
	Grave
	Cave
	Sink Hole
	Board Fence
	Chain Link or Security 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)



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



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%

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

High Tension 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

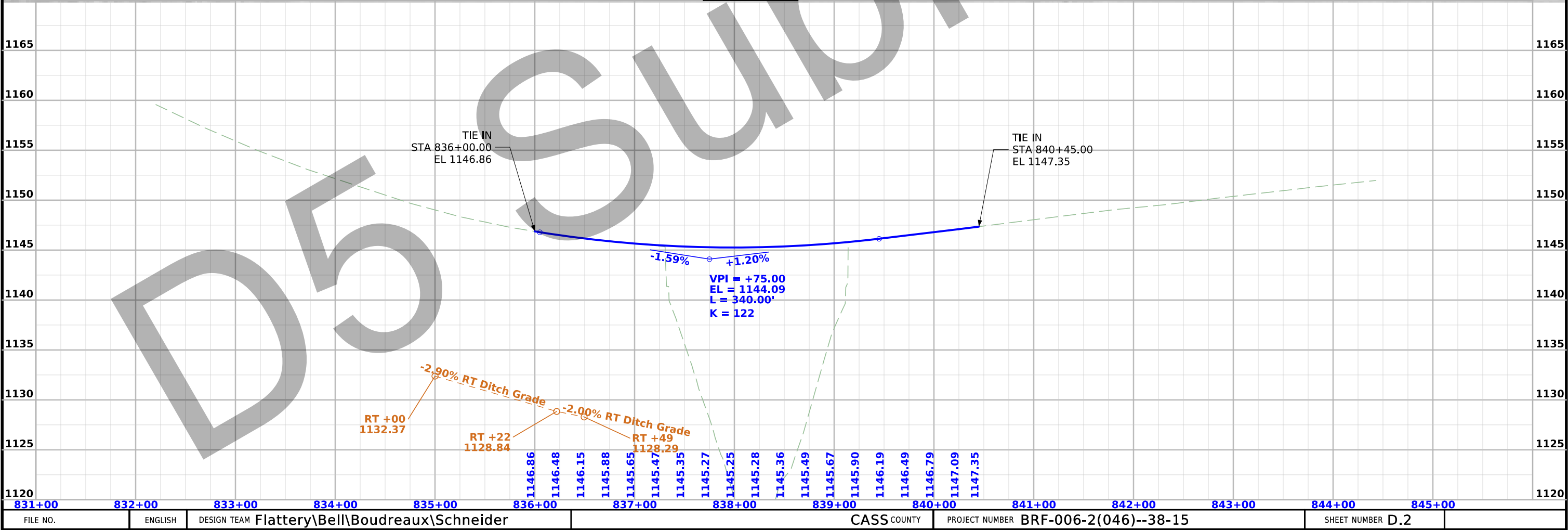
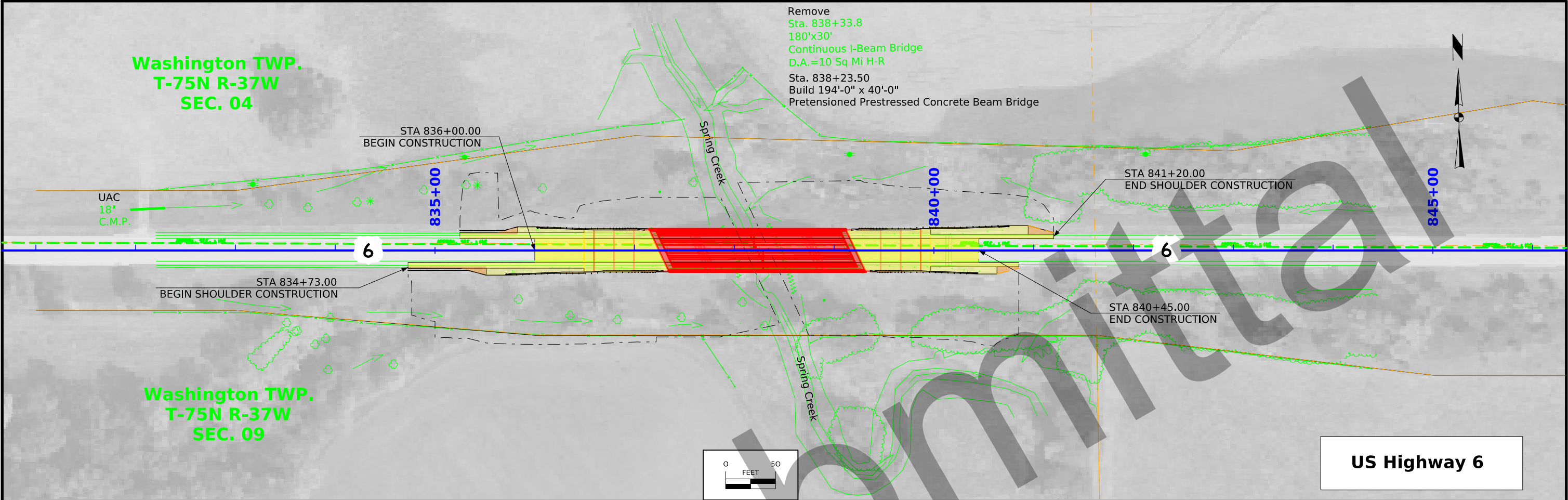
Easement

C/A Access Control

Property Line Symbol

Property Line

(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.



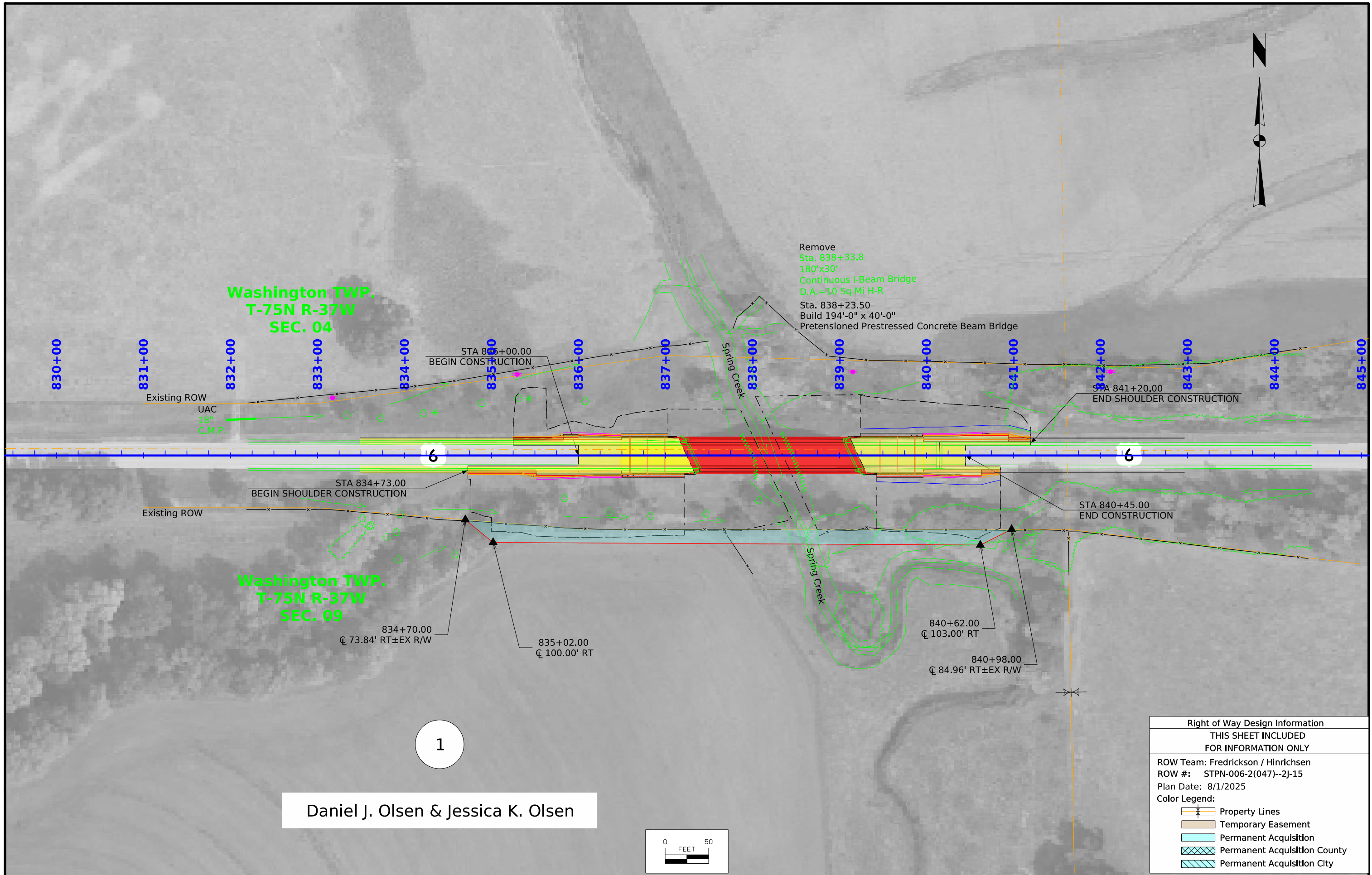
HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 07 (U.S. Survey Foot)

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



FILE NO.	ENGLISH	DESIGN TEAM	Flattery\Bell\Boudreaux\Schnelder	Cass COUNTY	PROJECT NUMBER	BRF-006-2(046)--38-15	SHEET NUMBER	H.1
7:10:30 AM	7/30/2025	thinric	pw:\NTP\wint1.dot.int.lan:PWMain\Documents\Projects\1500601022\ROW\ROW_15006047.dgn					

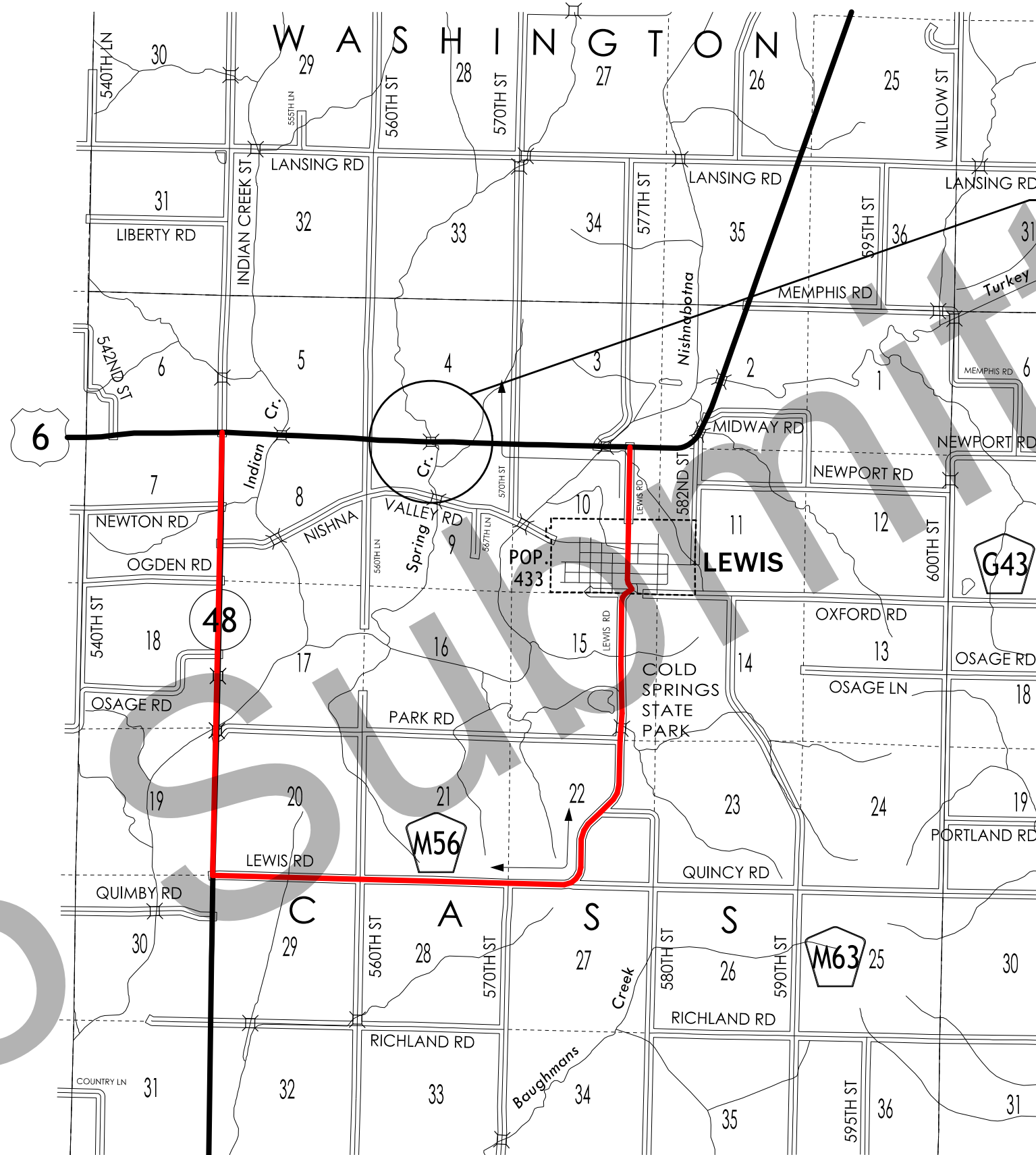
TRAFFIC CONTROL PLAN											108-23A 08-01-08	
US 6 will be closed to thru traffic during construction. US 6 traffic shall be maintained via offsite detour. See Sheet J.2 for detour.												

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			

FILE NO.	ENGLISH	DESIGN TEAM	Flattery\Bell	CASS COUNTY	PROJECT NUMBER	BRF-006-2(046)--38-15	SHEET NUMBER	J.1
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12/30/2024 3:15:45 PM nboudre c:\pw_work\pwmain\idotcentral_nboudre\d1557368\J01_15006046207.xlsm



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

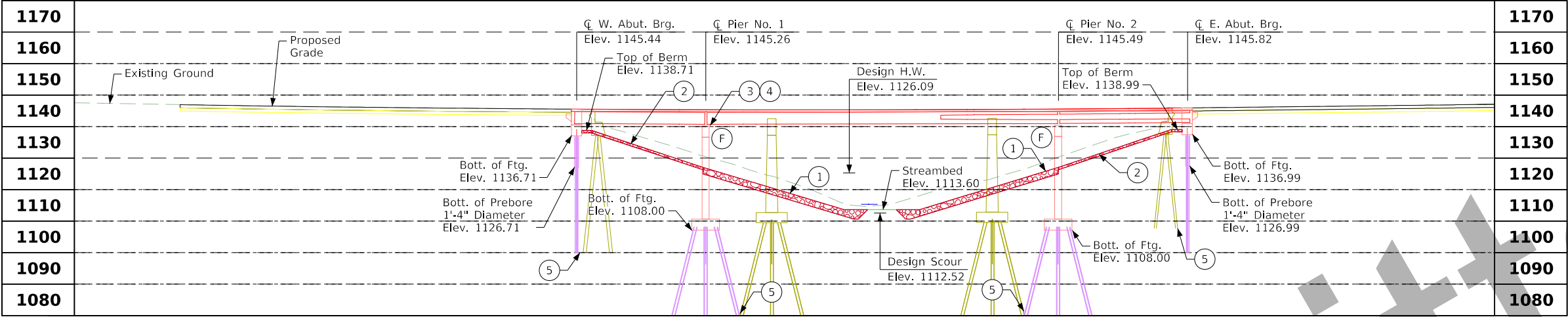
Detour Route



NOT TO SCALE



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

$Q_{25} = 2,785$ cfs
Stage = 1127.02

$Q_{50} = 3,422$ cfs
Stage = 1126.09
Channel Low Beam = 1140.08 ft.
Avg. Bridge Velocity = 5.62 fps

$Q_{100} = 4,104$ cfs
Stage = 1126.81
Operational Low Beam = 1140.08
Backwater = (+)1.55 ft.
Avg. Bridge Velocity = 6.02 fps

$Q_{200} = 4,815$ cfs
Stage = 1127.48
Calculated Design Scour = 1112.52

$Q_{500} = 5,653$ cfs
Stage = 1128.18
Channel Freeboard = 11.9 ft.
Avg. Bridge Velocity = 6.76 fps
Calculated Check Scour = 1111.93

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

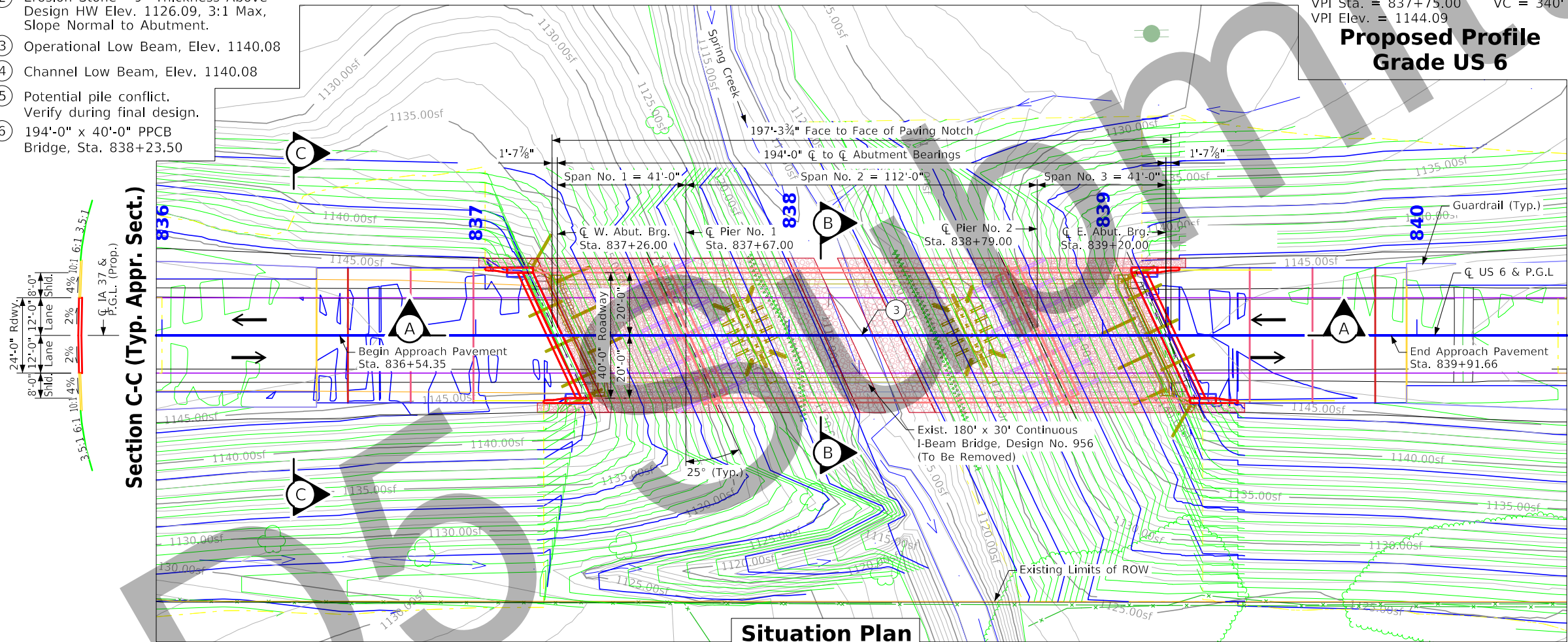
Design Notes:
1. TL-4 single slope bridge railing proposed.
2. Standard integral abutments.
3. Pier Type - T Pier (Assumed Width = 2'-10")
4. Beam Type - BTC.
5. Class E Revetment Stone.
6. Existing substructure and piles to be removed to 1' below proposed grade.
7. Final design to take into account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

- 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)

1.59% 1.20%
VPI Sta. = 837+75.00 VC = 340'
VPI Elev. = 1144.09
Proposed Profile Grade US 6



Situation Plan

US 6 Traffic Est.

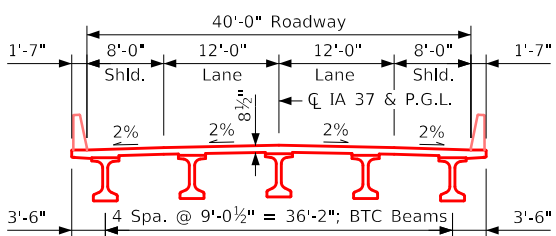
2024	AADT	1,760	V.P.D.
2044	AADT	--	V.P.D.
2044	DHV	--	V.P.H.
Trucks		14	%
Total			
Design ESALS		--	

Utilities Legend

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

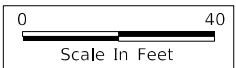
Location

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°



Section B-B (Typ. Bridge Sect.)

N



Preliminary

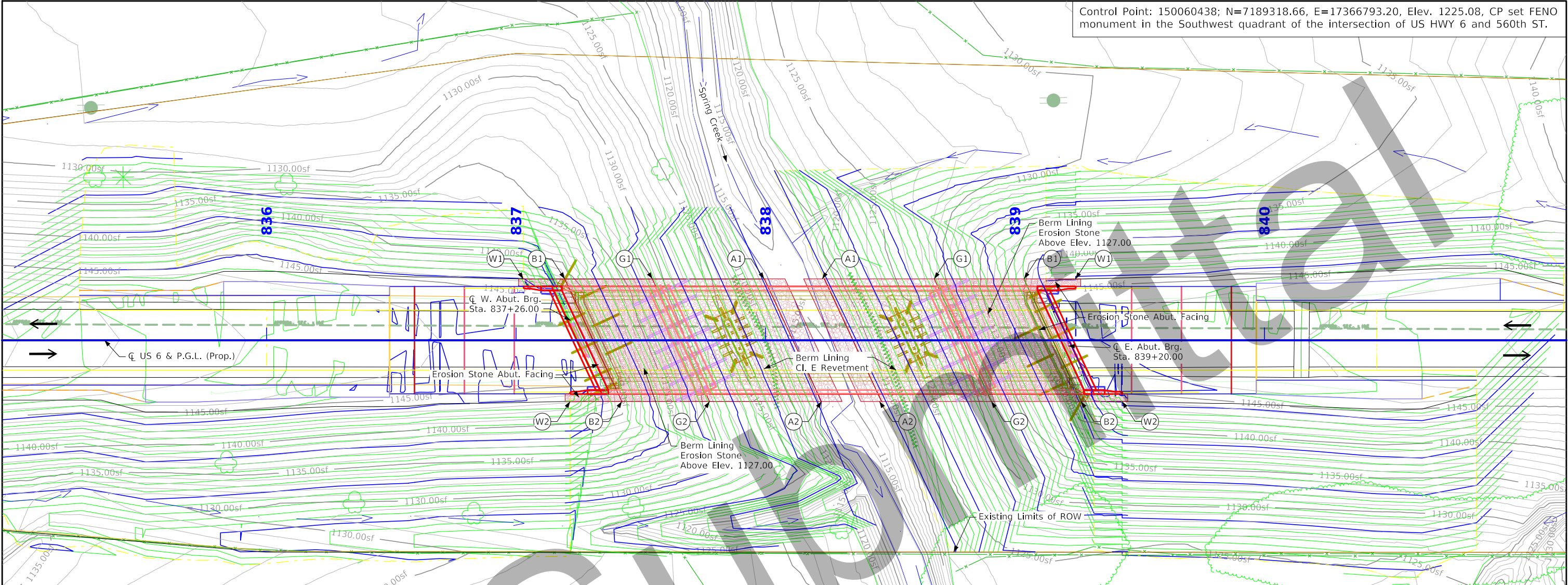
Design For 25° Skew (R.A.)
194'-0" x 40'-0" Prestressed Concrete Beam Bridge
41'-0" End Spans 112'-0" Interior Span

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

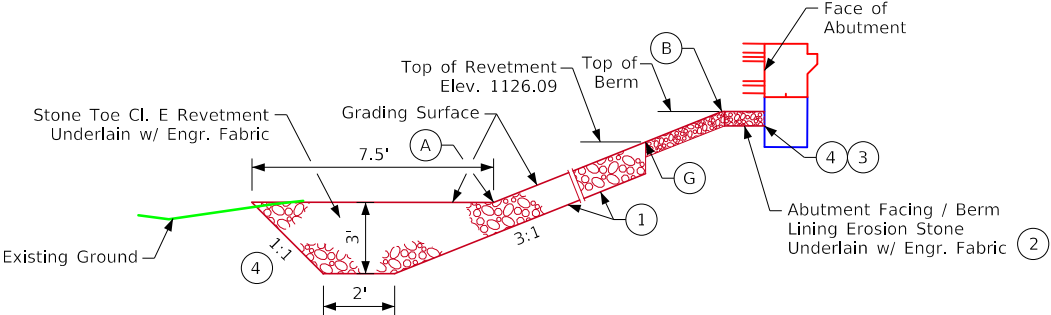
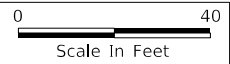
Estimated Berm Armoring Quantities				
Revetment Type - Location	Revetment Cl. E (Ton)	Erosion Stone (Ton)	Engineering Fabric (SY)	Excavation Class 10, Channel (CY)
Berm Lining, Stone Toe - West	330.1	92.8	558.4	264.3
Berm Lining, Stone Toe - East	325.0	94.7	558.4	262.3
Totals	655.1	187.5	1,116.8	526.6



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

CROSS SECTION VIEW COLOR LEGEND			
Design Color No.	Feature	Design Color No.	Feature
Aggregate		Grading	
(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		(6)	Loam
(207)	HMA Base Course	(211)	Loam Removed
(207)	HMA Interim Course	(80)	Rock
(207)	HMA Surface Course	(212)	Rock Removed
Bridge		(4)	Select Sand
(0)	Bridge	(214)	Select Sand Removed
Concrete		(3)	Shale
(0)	Barrier Concrete	(215)	Shale Removed
(0)	Barrier Concrete Footing	(10)	Topsoil
(0)	Curb Gutter	(2)	Topsoil Remove Only
(48)	Flowable Mortar	(4)	Topsoil Remove and Replace
(0)	Median Concrete	Unsuitable / Waste	
(0)	PCC Pavement	(3)	Unsuitable Type A
(0)	Sidewalk	(216)	Unsuitable Type A Removed
Existing		(13)	Unsuitable Type B
(0)	Existing Pavement	(217)	Unsuitable Type B Removed
Shoulder		(11)	Unsuitable Type C
(209)	Shoulder HMA	(218)	Unsuitable Type C Removed
(0)	Shoulder PCC	(3)	Waste
(6)	Shoulder Granular	(219)	Waste Removed
Structural			
(112)	Noise Wall		
(112)	Noise Wall Footing		
(112)	Retaining Wall Back		
(112)	Retaining Wall Back Excavate		
(112)	Retaining Wall Face		
(112)	Retaining Wall Front Excavate		
(112)	Retaining Wall Front Footing		
(112)	Retaining Wall MSE Gutter		
(112)	Retaining Wall Reinforced Earth		

NOTES:

Text

NOTES:

Text

CROSS SECTIONS
LEGEND AND INFORMATION SHEET

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

