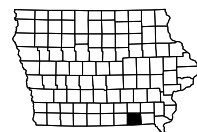


PPCB BRIDGE REPLACEMENT
BRF-063-1(91)--38-26

DAVIS CO.

LETTING DATE
10-18-2022



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
C Sheets	Quantities and General Information
C.1	Project Description
C.1	Estimated Project Quantities
C.1	Estimate Reference Information
C.1	Standard Road Plans
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	IA 63
G Sheets	Survey Sheets
G.1 - 3	Reference Ties and Bench Marks
G.4	Horizontal Control Tab. & Super for all Alignments
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
* J.2 - 3	Staging and Traffic Control Sheets Stage 1-3
V Sheets	Bridge and Culvert Situation Plans
* V.1 - 3	Bridge and Culvert Situation Plans
W Sheets	Mainline Cross Sections
W.1	Cross Sections Legend & Symbol Information Sheet
W.2 - 10	Mainline Cross Sections
	* Color Plan Sheets



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

DAVIS COUNTY PPCB BRIDGE REPLACEMENT

IA 63 Over Fox River, 2.1 Mi N of IA 2

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	
29	
PROJECT IDENTIFICATION NUMBER	18-26-063-010
PROJECT NUMBER	BRF-063-1(91)--38-26
R.O.W. PROJECT NUMBER	NHSN-063-1(92)--2R-26

For Project Location Map
Refer to Sheet No. A.02

D5 PLAN – Oct. 16, 2020
D4 PLAN – June 21, 2022

DESIGN DATA			
2022	AADT	5,300	V.P.D.
2042	AADT	5,700	V.P.D.
2042	DHV	590	V.P.H.
	TRUCKS	10	%
	Total		
	Design ESALs	--	

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Michael J. Janecek	Primary Signature Block
V.1	Phillip M. Harpole	Hydraulic Design

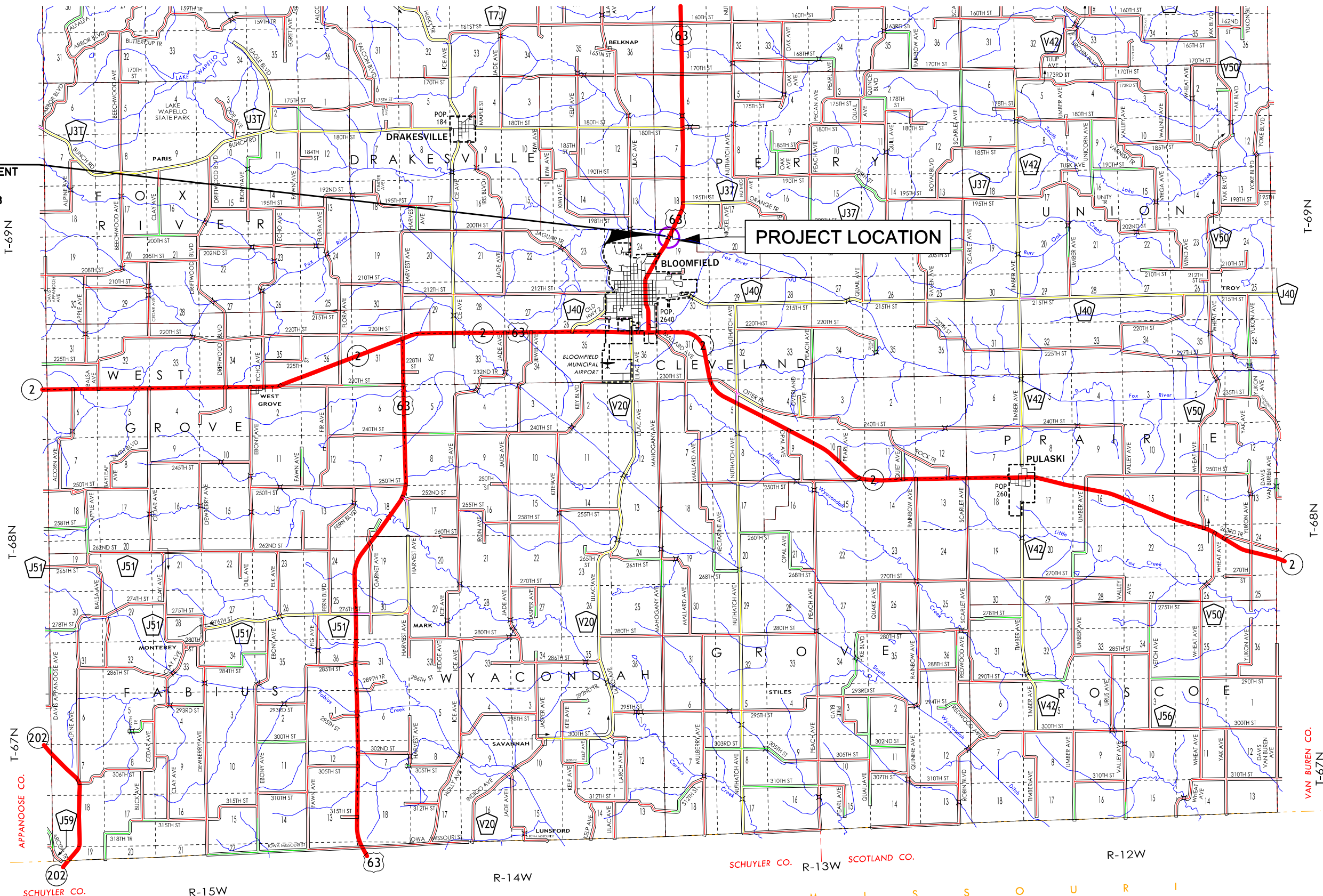
PRELIMINARY PLANS

Subject to change by final design.

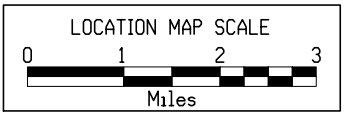
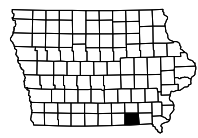
D3 PLAN – July 15, 2020

PROJECT LOCATION

US 63 BRIDGE REPLACEMENT
STA.: 51+62.00
FHWA NO.: 22521
MAINT. NO.: 2617.4S063
MP: 17.4



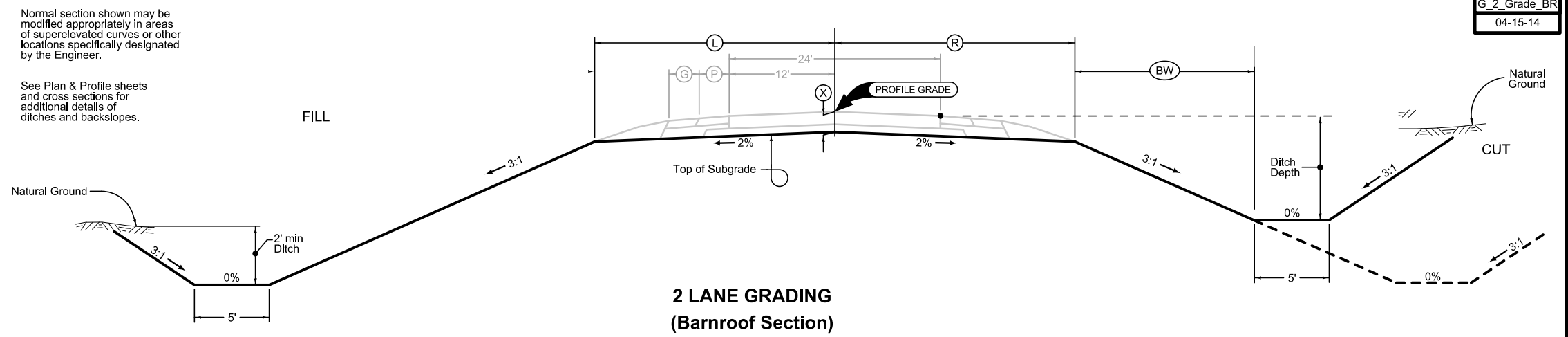
PROJECT LOCATION



LOCATION		DIMENSIONS			
ROAD IDENTIFICATION	STATION TO STATION		Ⓛ	Ⓜ	Ⓧ
			Feet	Feet	Inches
IA 63	48+90.00	54+97.00	29.13	29.13	15.5

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

See Plan & Profile sheets and cross sections for additional details of ditches and backslopes.

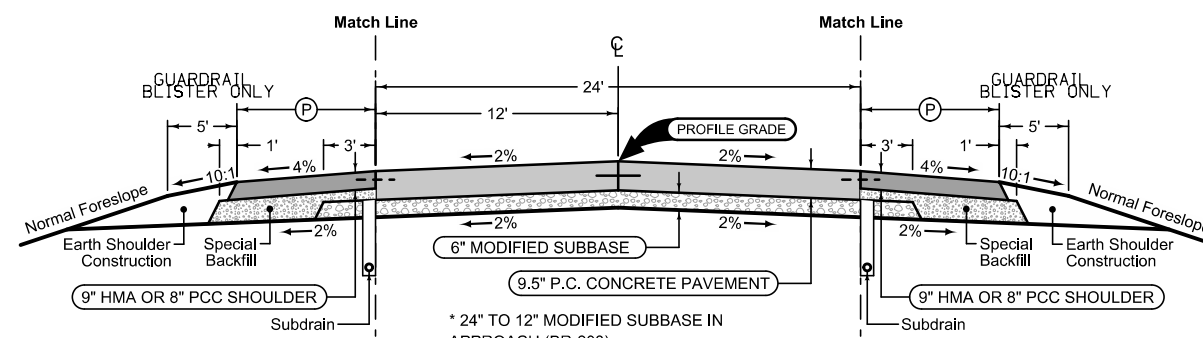


G_2_Grade_BR
04-15-14

Paved Shoulder at Guardrail

PCC Shoulder Jointing:
 Longitudinal joint: BT-1 or BT-5
 Transverse joints: C at mainline spacing
 HMA Shoulder Jointing:
 Longitudinal joint: B

2_P_Guard_10-17-17		
STATION TO STATION	(P) Feet	
49+14.83	50+38.50	VARIES
52+85.50	54+34.17	VARIES



* 24" TO 12" MODIFIED SUBBASE IN APPROACH (BR-203)
 * 12" P.C. CONCRETE PAVEMENT IN APPROACH (BR-203)
 Mainline Jointing:
 Transverse joints: CD at 20' spacing
 Longitudinal joint: L-2

2P_10-19-10		
STATION TO STATION		
48+90+00	49+68.50	ROADWAY
49+68.50	50+38.50	APPROACH
52+85.50	53+55.50	APPROACH
53+55.50	54+97.00	ROADWAY

Paved Shoulder at Guardrail

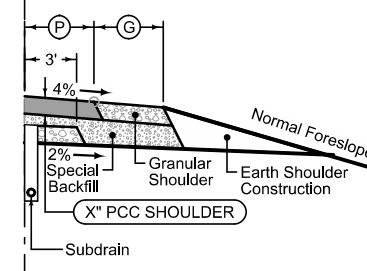
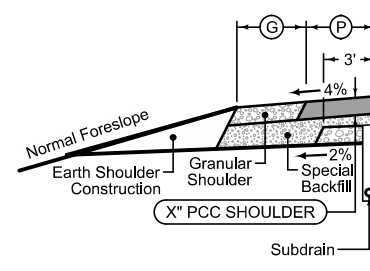
PCC Shoulder Jointing:
 Longitudinal joint: BT-1 or BT-5
 Transverse joints: C at mainline spacing
 HMA Shoulder Jointing:
 Longitudinal joint: B

2_P_Guard_10-17-17		
STATION TO STATION	(P) Feet	
48+90.00	50+48.50	VARIES
52+85.50	54+09.22	VARIES

Combination Shoulder

Shoulder Jointing:
 Longitudinal joint: B

2_C_10-15-13			
STATION TO STATION	(P) Feet	(G) Feet	
48+90.00	49+14.83	6	4
54+34.17	54+97.00	6	4

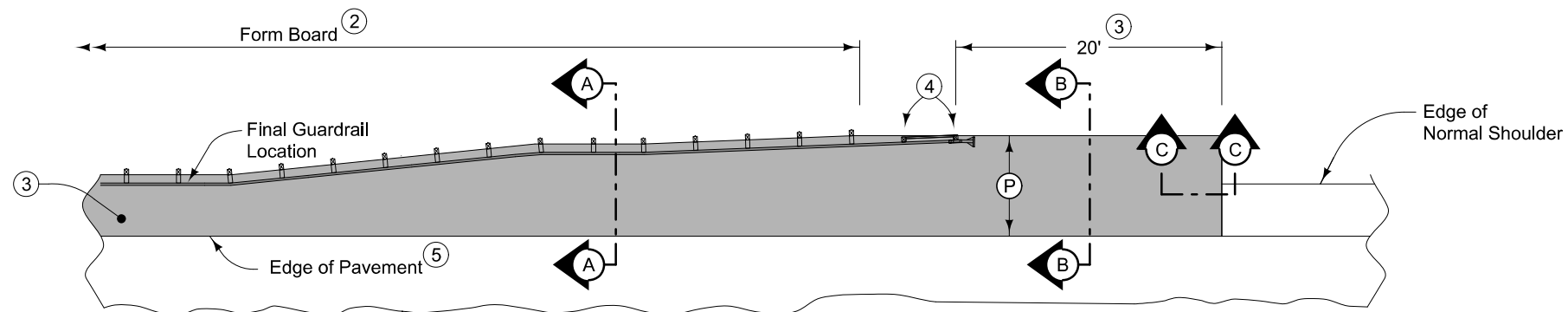


Combination Shoulder

Shoulder Jointing:
 Longitudinal joint: B

2_C_10-15-13			
STATION TO STATION	(P) Feet	(G) Feet	
54+09.22	54+97.00	6	4

See Tab 100-24 or 100-25 for pavement quantities.
 See Tab 112-9 for shoulder quantities.



PLAN VIEW

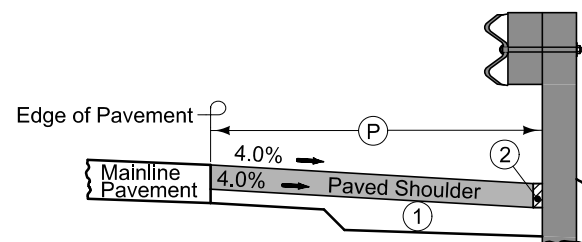
9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

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.

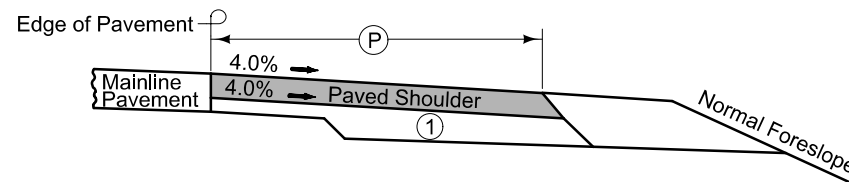
Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail. Removal and reinstallation of guardrail will be allowed with no additional payment.

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.

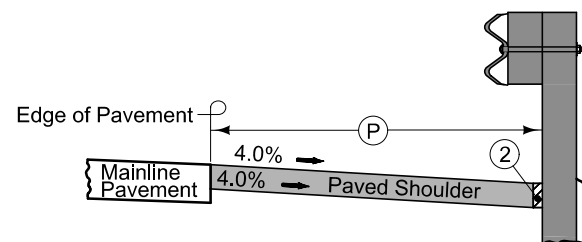


Section A-A

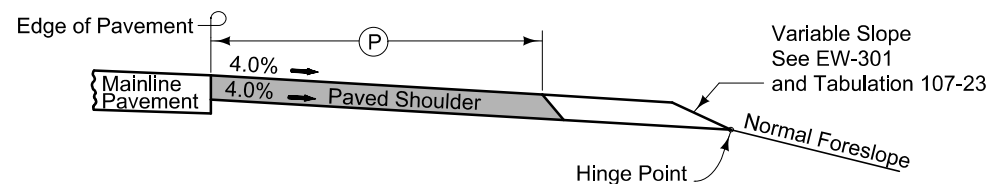


Section B-B

NEW CONSTRUCTION

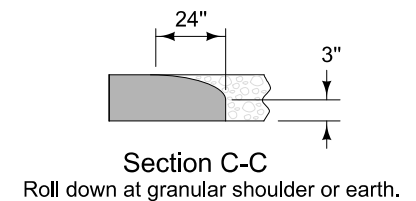


Section A-A



Section B-B

EXISTING SHOULDER



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

PAVED SHOULDER AT GUARDRAIL

PROJECT DESCRIPTION

100-1D
10-18-05

This project involves the replacement of the IA 63 bridge over Fox River, 2.1 miles N of IA 2, using staged construction.

**ESTIMATED ROADWAY QUANTITIES
(1 DIVISION PROJECT)**

100-0A
10-28-97

Item No.	Item Code	Item	Unit	Total	As Built Qty.

STANDARD ROAD PLANS

105-4
10-18-11

The following Standard Road Plans apply to construction work on this project.

Number	Date	Title
BA-200	10-18-16	Steel Beam Guardrail Components
BA-201	04-18-17	Steel Beam Guardrail Barrier Transition Section (MASH TL-3)
BA-202	10-20-15	Steel Beam Guardrail Bolted End Anchor
BA-205	04-19-16	Steel Beam Guardrail Tangent End Terminal (MASH TL-3)
BA-250	10-18-16	Steel Beam Guardrail Installation at Concrete Barrier on Bridge End Post (MASH TL-3)
BR-203	10-17-17	Double Reinforced 12" Approach
DR-303	10-17-17	Subdrains (Longitudinal)
DR-305	04-17-18	Subdrain Outlets (standard Subdrain, Pressure Release and Special)
DR-402	04-17-18	Rock Flume for Bridge End Drain
EC-201	10-16-18	Silt Fence
EC-202	10-21-14	Floating Silt Curtain
EC-204	04-18-17	Perimeter and Slope Sediment Control Devices
EC-301	10-18-16	Rock Erosion Control (REC)
EW-101	10-17-17	Embankment and Rebuilding Embankments
EW-102	10-20-15	Allowable Placement of Unsuitable Soil in Embankments
EW-201	04-19-16	Bridge Berm Grading without Recoverable Slope (Barnroof Section)
EW-301	10-20-15	Guardrail Grading
PM-110	10-16-18	Line Types
PM-420	04-19-11	Two-Lane Roadway with no Turn Lanes (One-Way Stop Condition)
PV-101	10-16-18	Joints
SI-173	04-19-16	Object Markers
SI-211	10-18-16	Object Markers and Delineator Placement with Guardrail
TC-1	04-16-13	Work Not Affecting Traffic (Two-Lane or Multi-Lane)
TC-81	10-15-19	Restricted Width Signing (Less Than 14.5 Feet)
TC-202	04-21-15	Work Within 15 ft of Traveled Way
TC-252	04-19-16	Routes Closed to Traffic

**UTILITIES
(NOT A POINT 25 PROJECT)**

262-6
10-18-05

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

SURVEY SYMBOLS

- BCL Bridge Centerline
- BL Topo Breakline
- BRG Bridge
- C Centerline BL of Road (ML or SR)
- D Centerline Draw or Stream (Down)
- DU Centerline Draw or Stream (Up)
- EG Edge of Gravel Road
- EP Edge of Paved Roads (ML or SR)
- EW Edge of Water
- F0 --- FO1D Fiber Optic Co. 1 - Quality D
- F02 --- FO2D Fiber Optic Co. 2 - Quality D
- GDL Guard Rail Steel
- LIN Miscellaneous Line
- PIP Pipe Culvert
- T1 --- TL1D Telephone Line Co. 1 - Quality D
- T2 --- TL2D Telephone Line Co. 2 - Quality D
- T3 --- TL3D Telephone Line Co. 3 - Quality D
- TOP Top of Bridge Pier
- W --- WL1D Water Line Co. 1 - Quality D
- CP Control Point
- BM Bench Mark
- WC Wild Card (Misc. Field Shot)
- GR Ground Shot
- SIGN SI Sign
- TP TPD Telephone Pedestal
- GP GP Guard Post (Less Than 4 Posts)
- BD Bridge Deck
- PCP Photo Control Point
- BBB Bottom of Bridge Beam
- BLS Bridge Low Steel
- TW Top of Water
- OUT Tile Outlet
- SBR Size of Bridge

UTILITY LEGEND

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

- F0 --- FO1D Fiber Optic Co. 1 - Quality D
- F02 --- FO2D Fiber Optic Co. 2 - Quality D
- GDL Guard Rail Steel
- LIN Miscellaneous Line
- PIP Pipe Culvert
- T1 --- TL1D Telephone Line Co. 1 - Quality D
- T2 --- TL2D Telephone Line Co. 2 - Quality D
- T3 --- TL3D Telephone Line Co. 3 - Quality D
- TOP Top of Bridge Pier
- W --- WL1D Water Line Co. 1 - Quality D

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.		
Yellow	(4)	Highlight for Critical Notes or Features
Red	(3)	Delineates Restricted Areas
Lavender	(9)	Temporary Pavement Shading
Gray, Light	(48)	Proposed Pavement Shading
Gray, Med	(80)	Proposed Granular Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	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

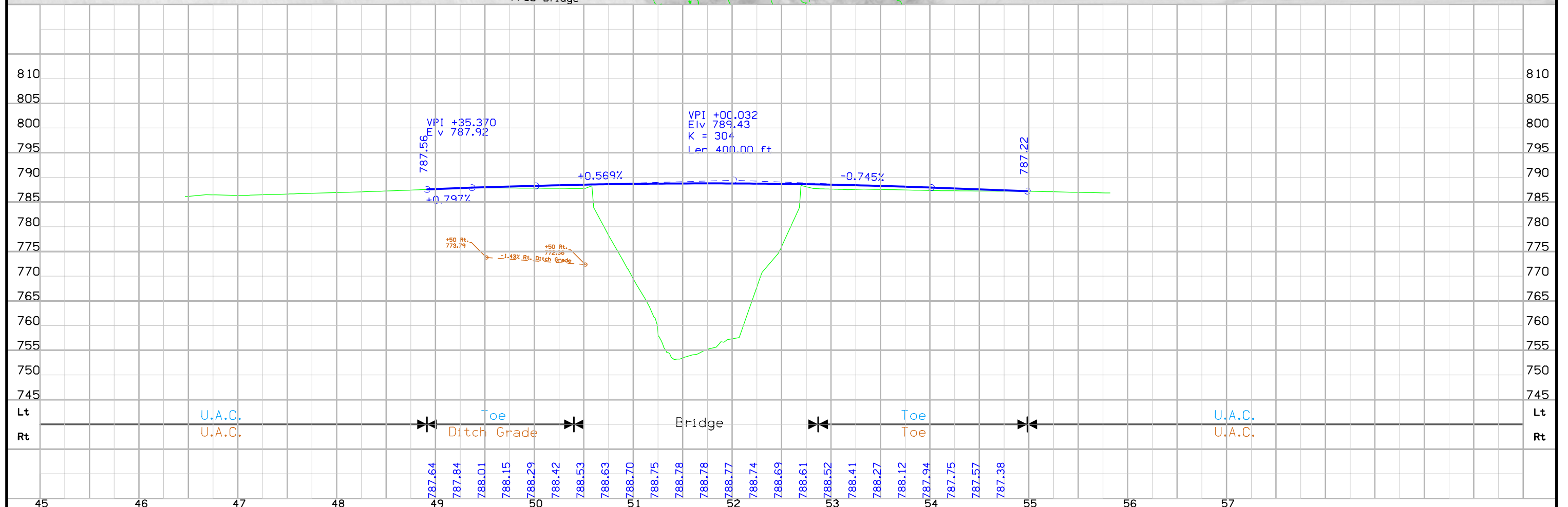
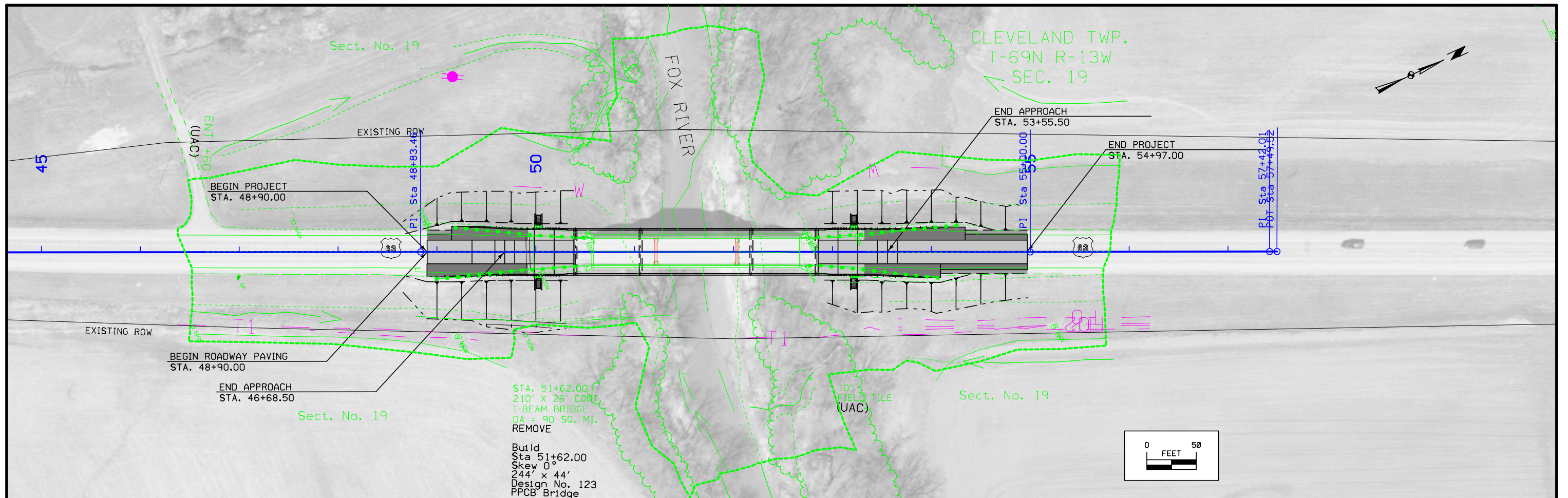
- Reference Point
- Station
- ▲ Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- ▨ Pavement Removal
- ▩ Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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



Survey Information

Davis County
BFRN-063-1(91)--38-26
Fox Creek 2.1 mi. N. of IA 2
PIN 18-26-063-010
Sap-0203.4

Party Personnel

Gary Gross – Party Chief
Josh Blaine – Assistant Survey Party Chief

Date(s) of Survey

Begin Date 05/16/2019
End Date 06/07/2019

General Information

Measurement units for this survey are US survey feet. This survey is for proposed bridge reconstruction and reconstruction of US 63 over Fox Creek. Project datum and control information is provided by Shive-Hattery, Inc. This project is a Partial DTM with photo control. This survey request was for the US 63 corridor and Fox Creek only.

Vertical Control

Trimble VRS
Vertical datum for this survey is NAVD88 (Computed using Geoid12A).

This survey observed local control benchmark monument (benchmark bolt in concrete of southeast abutment corner) with Trimble VRS with elevation 788.34. No vertical information was available at the time field work was completed.

This survey observed 2 county control monuments with published NAVD88 heights to compare to local ground control:

Davis County Control mark 116 has a published elevation of 849.86
Survey elevation = 849.61

Davis County Control mark 115 has a published elevation of 876.04
Survey elevation = 876.00

This survey observed 1 NGS Control monument with published NAVD88 heights to compare to local ground control:

NGS 1st order class II mark designated G 7 has a published elevation of 847.22
Survey elevation = 847.23

Horizontal Control

(Project Coordinates from Trimble VRS Observations)

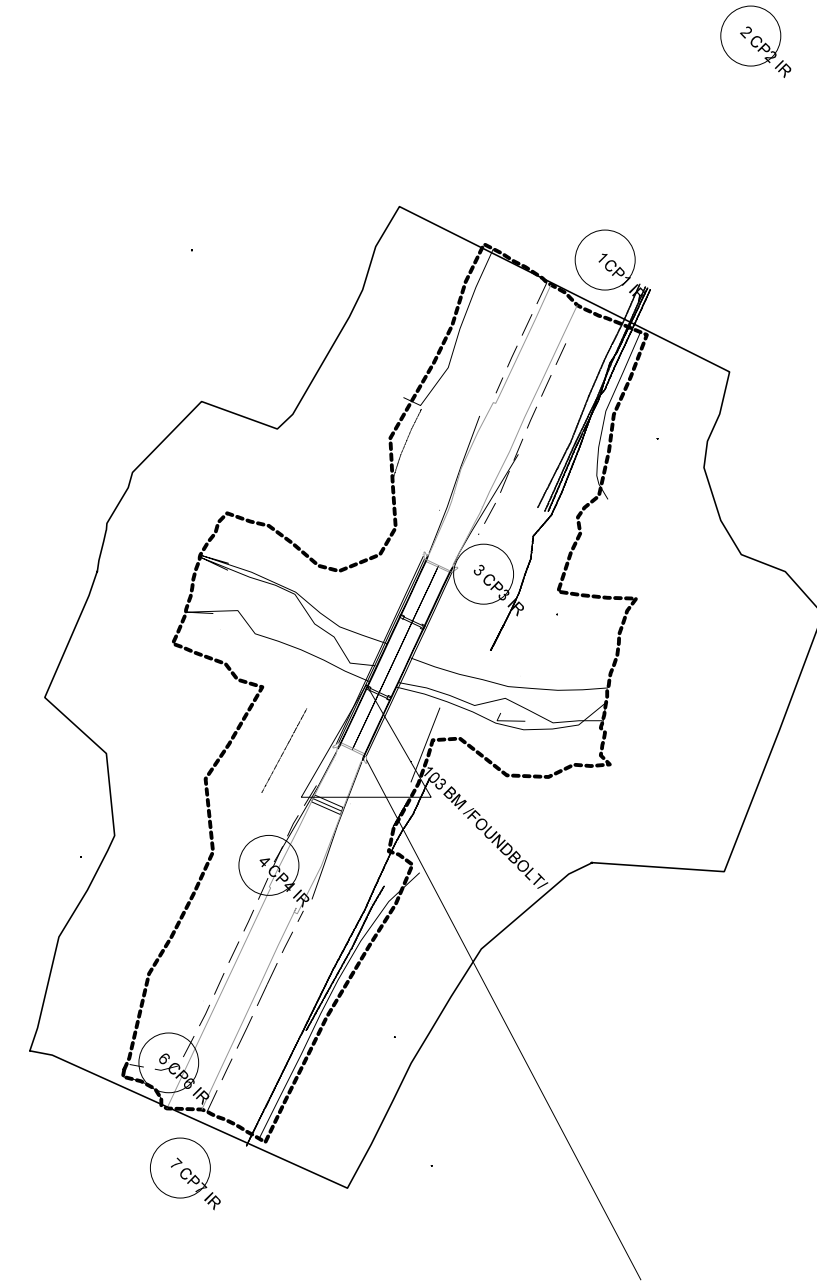
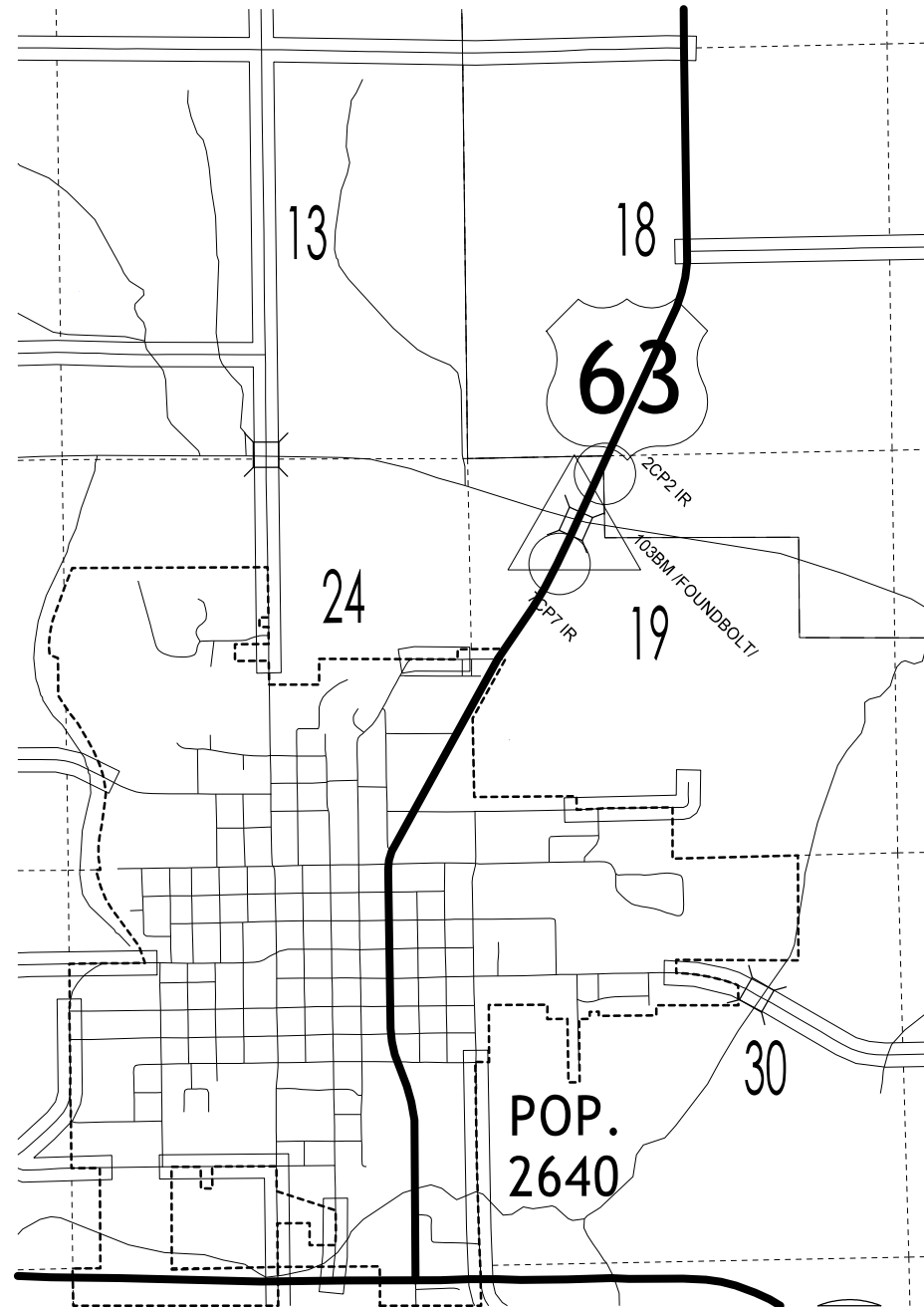
The project coordinate system is Iowa Regional Coordinate System Zone 12 (U.S. Survey Feet). This survey control is relative to the Trimble VRS reference stations. Trimble VRS Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011) for Epoch 2010.00. Coordinates were determined by Trimble VRS observations. Additional control points were placed throughout the project using a Total Station setup relative to Point 1 and Point 2 for points 3,4, and 5 and relative to Point 4 and 1 for points 6 and 7.

Alignment Information

The horizontal alignment for this survey is a retrace of As-built Plans Davis County Project F50. Survey stationing was equated to the bridge situation plan Sta:51+62.00 and run back and ahead without equation throughout the survey.

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) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 12

Coordinate listing from next sheet will be used with 1aRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

Ia. Regional Coordinate System Zone 12

POINT NUMBER	NORTHING	EASTING	ELEVATION	FEATURE DEFINITION	DESCRIPTION
1	6148672.66	22872909.16	786.09	CP1	5/8" Iron Rod
2	6148905.44	22873060.52	775.16	CP2	5/8" Iron Rod
3	6148346.31	22872783	779.54	CP3	5/8" Iron Rod
4	6148043.77	22872559.92	786.48	CP4	5/8" Iron Rod
6	6147838.66	22872455.9	784.34	CP6	5/8" Iron Rod
7	6147729.4	22872467.86	786.37	CP7	5/8" Iron Rod
103	6148153.58	22872661.12	788.34	BM	BM /FOUNDBOLT/

ALIGNMENT COORDINATES

101-16
10-20-09

Name	Location	Point on Tangent			Begin Spiral			Begin Curve			Simple Curve PI or Master PI of SCS			End Curve			End Spiral		
		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates		Station	Coordinates	
			Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)		Y (Northing)	X (Easting)
ML0631	POT	44+54.90	6,147,618.2413	22,872,392.5195															
ML0633	POT	48+83.46	6,148,006.7780	22,872,573.3600															
ML0635	POT	55+00.00	6,148,565.4821	22,872,834.0865															
ML0637	POT	57+42.01	6,148,784.9690	22,872,936.0270															
ML0638	POT	57+49.52	6,148,791.7623	22,872,939.2250															

108-23A
08-01-08

TRAFFIC CONTROL PLAN

- 1) While bridge and approaches are being removed and replaced, traffic shall be maintained on US 63 at all times by staged construction with temporary signals allowing one lane of traffic.
- 2) Signage and devices shall be furnished, installed, maintained, and removed by Contractor.

108-26A
08-01-08

STAGING NOTES

- Stage 1:
Remove and replace west portion of roadway, approaches and bridge with traffic shifted to NB lane using temporary signals.
Temporary pavement to be placed for roadway paving
- Stage 2:
Remove and replace east half of roadway, approaches and bridge with traffic shifted to SB lane using temporary signals.
- Stage 3:
Remove temporary paving on west half of roadway and complete approach and roadway with US 63 traffic shifted to NB lane using temporary signals.

511 TRAVEL RESTRICTIONS

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
IA 63	Both	Davis	Fox River (2.1 mi n of IA 2)	Bridge (River)			Width					

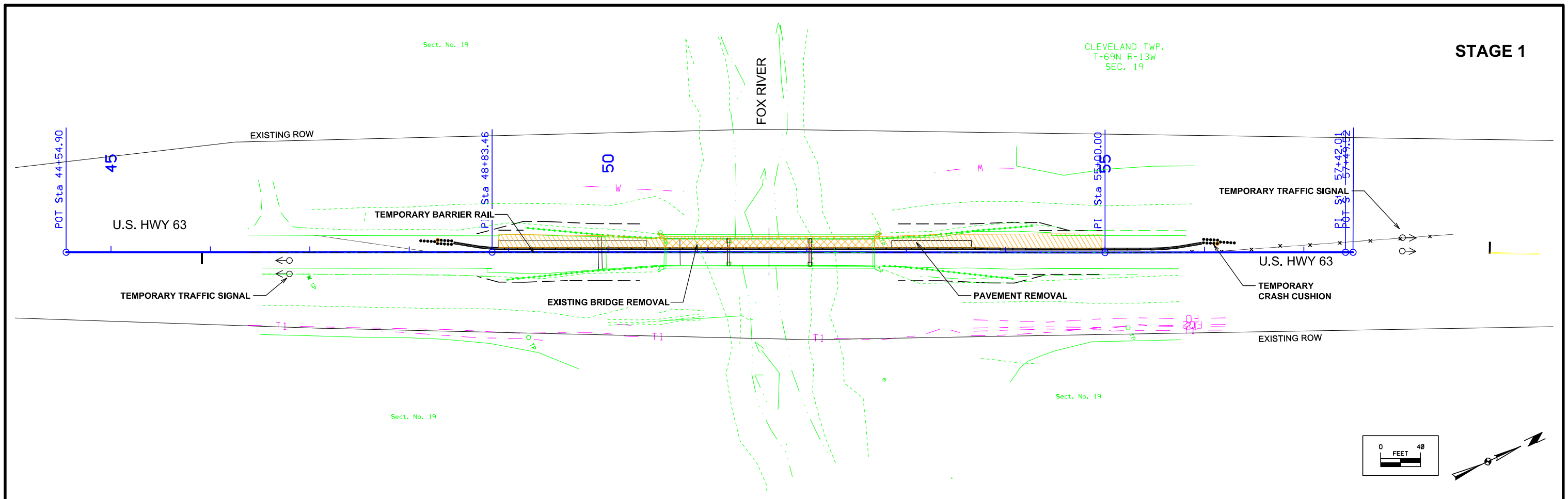
111-01
04-17-12

COORDINATED OPERATIONS

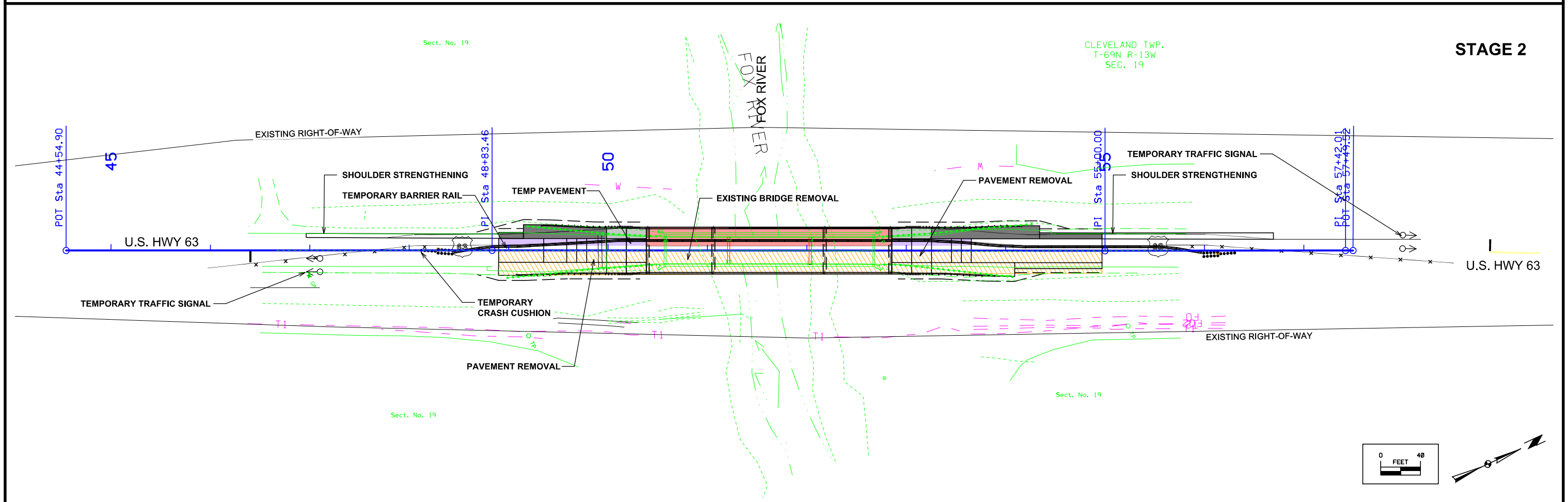
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project	Type of Work
None Provided	

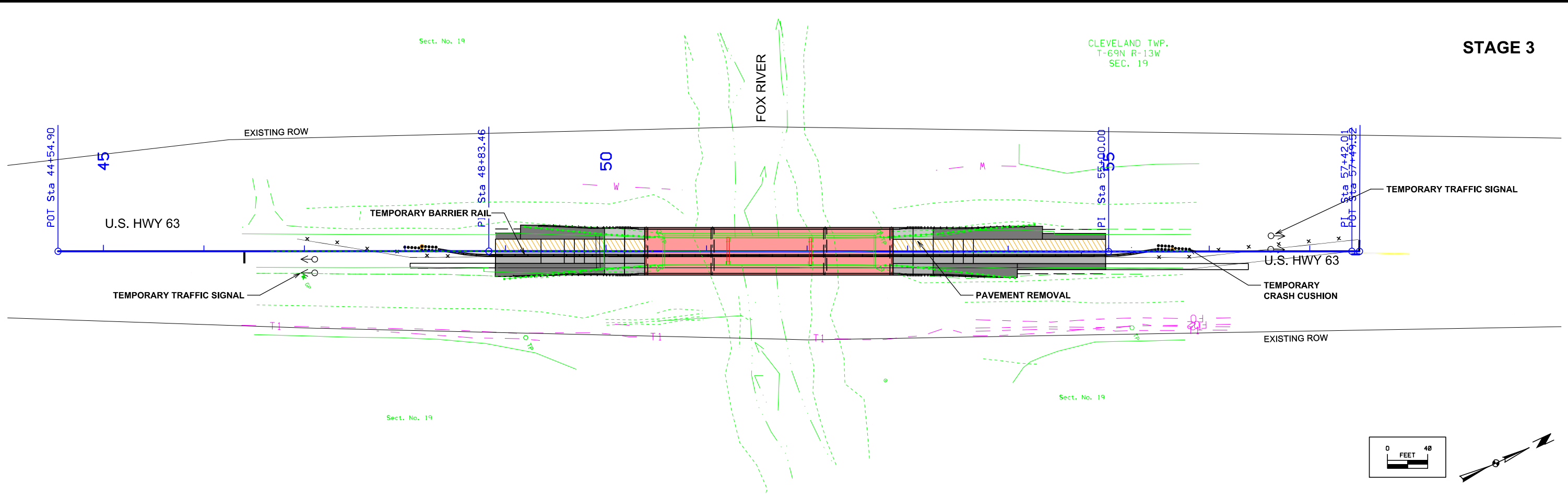
STAGE 1



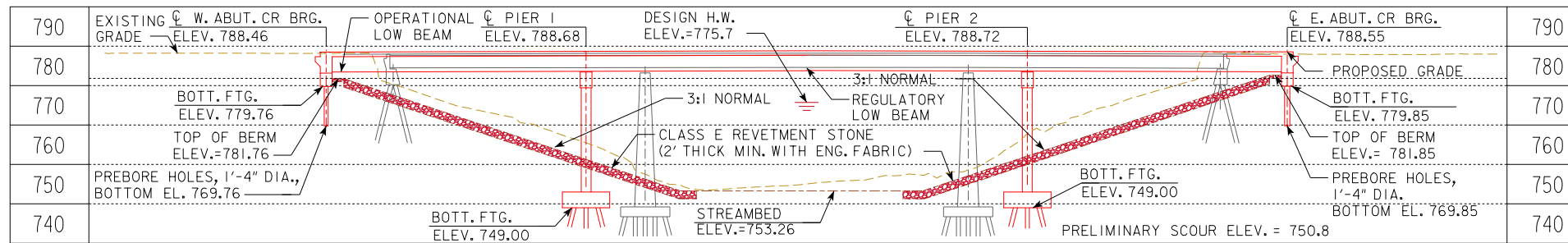
STAGE 2



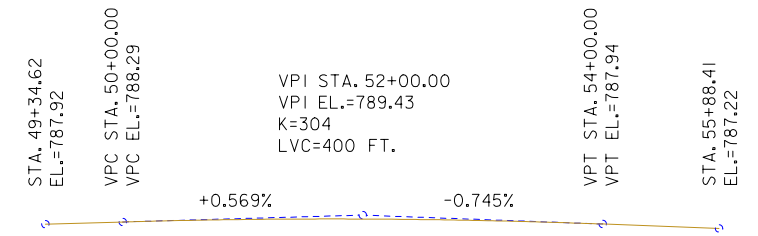
STAGE 3



STAGE 2



BENCH MARK NO. CONTROL POINT NO. 1 5/8" IRON ROD ELEV. 786.09



LONGITUDINAL SECTION ALONG CL APPROACH ROADWAY

PROPOSED PROFILE GRADE US 63

UTILITIES LEGEND:

- W — — — WATER
- T — — — TELEPHONE

UTILITIES SHOWN ON THIS SHEET ARE FOR INFORMATION ONLY, SEE ROAD DESIGN SHEETS FOR FINAL UTILITY INFORMATION.

HYDRAULIC DATA

DRAINAGE AREA = 88.7 SQ. MI.
 STREAM SLOPE = 7.26 FT./MI.
 AVG. LOW WATER STAGE = 754.9

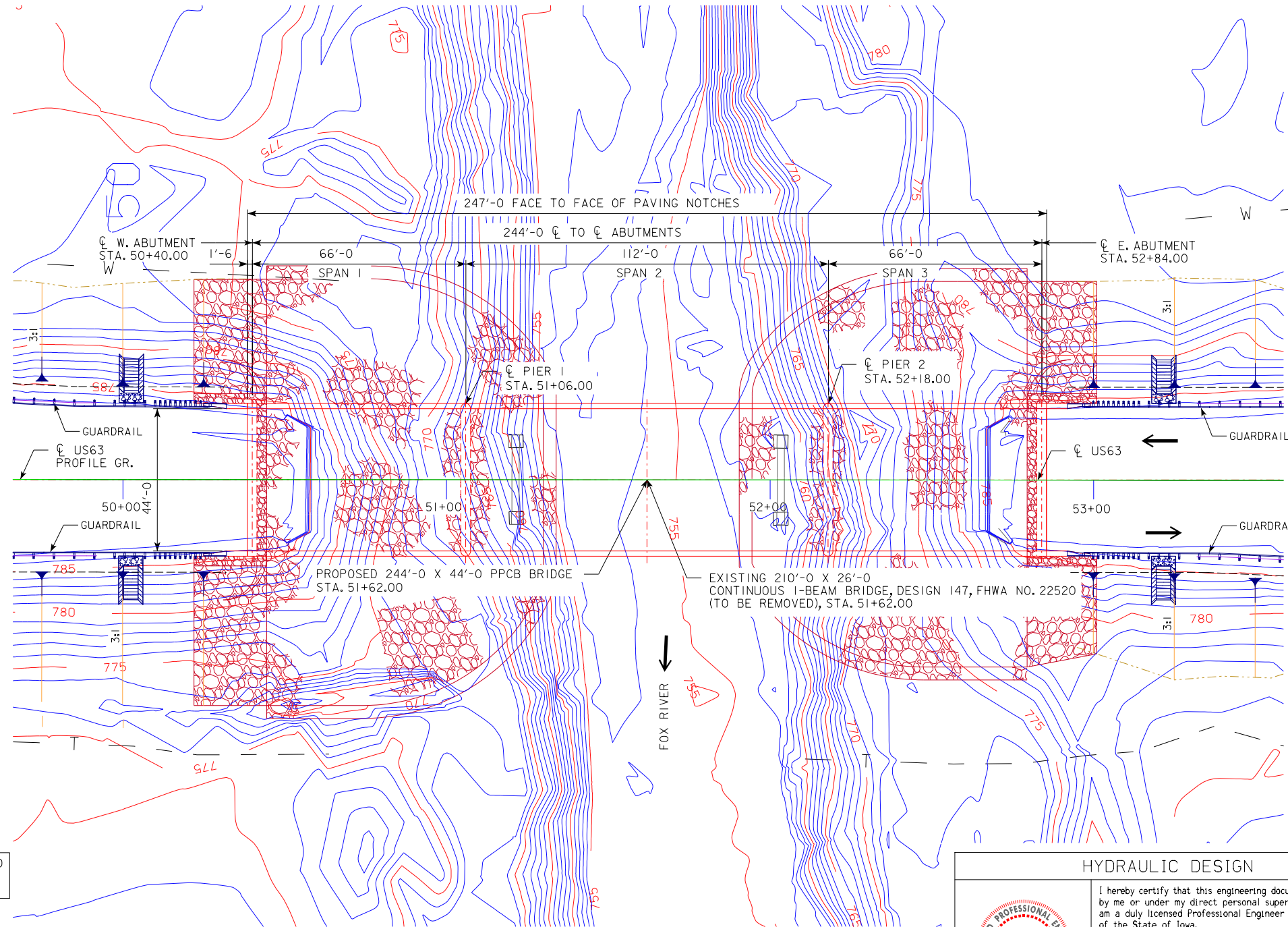
Q₅₀ = 13600 CFS
 STAGE = 775.7 FT.
 REGULATORY LOW BEAM = 783.75
 BACKWATER = 0.4 FT.
 AVG. BRIDGE VELOCITY = 6.7 FPS

Q₁₀₀ = 15900 CFS
 STAGE = 776.7 FT.
 OPERATIONAL LOW BEAM = 783.51
 BACKWATER = 0.4 FT.
 AVG. BRIDGE VELOCITY = 7.2 FPS

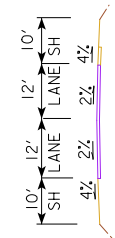
Q₂₀₀ = 18200 CFS
 STAGE = 777.5 FT.
 CALCULATED CHECK SCOUR = 750.8

Q₅₀₀ = 21200 CFS
 STAGE = 778.2 FT.
 CALCULATED CHECK SCOUR = 750.7
 ROADWAY OVERTOP = 785.0

TYPICAL BRIDGE SECTION



TYPICAL APPROACH SECTION



LOCATION TRAFFIC ESTIMATE

LOCATION	2022 AADT	2042 AADT	2042 DHV	TRUCKS	V.P.D.
US63 OVER FOX RIVER	5300	5700	590	10 %	V.P.D.
T-69N R-13W	2042	2042	2042		V.P.D.
SECTION 19	2042	2042	2042		V.P.D.
CLEVELAND TOWNSHIP	2042	2042	2042		V.P.D.
DAVIS COUNTY	2042	2042	2042		V.P.D.
FHWA NO. 22521	2042	2042	2042		V.P.D.
BRIDGE MAINT. NO. 2617.4s063	2042	2042	2042		V.P.D.
LATITUDE 40.766501	2042	2042	2042		V.P.D.
LONGITUDE -92.404768	2042	2042	2042		V.P.D.

PRELIMINARY

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.

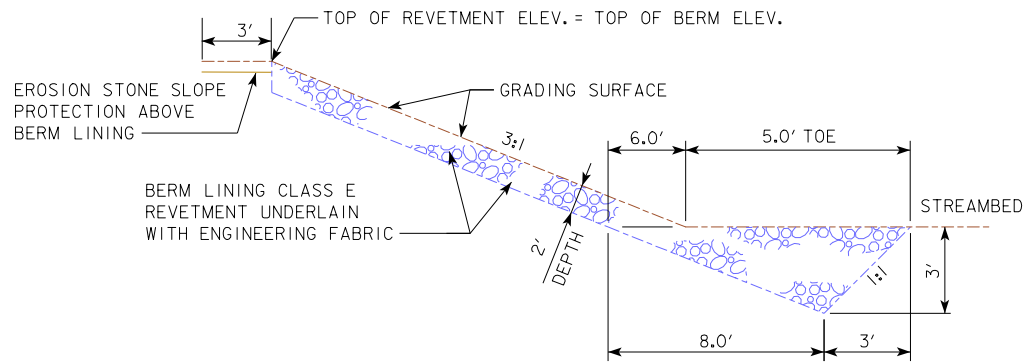
Signature: **PHILIP M. HARPOLE** Date: _____
 Printed or Typed Name: **PHILIP M. HARPOLE**
 My license renewal date is December 31, 2020

Pages or sheets covered by this seal: _____

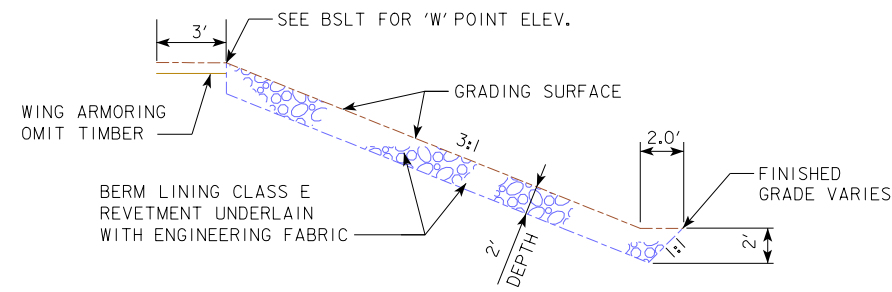
DESIGN FOR 0° SKEW
**244'-0 X 44'-0 PRETENSIONED
 PRESTRESSED CONCRETE BEAM BRIDGE**
 66'-0 END SPAN (BTC BEAMS), 112'-0 INTERIOR SPAN
SITUATION PLAN
 STATION 51+62.00 (US 63) JULY, 2020
DAVIS COUNTY
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. 1 OF 3 FILE NO. 31701 DESIGN NO. 123

SITUATION PLAN

- NOTES:
1. TL-4 RAILING PROPOSED
 2. TOP OF BRIDGE DECK CROWN 0.03' BELOW PROFILE GRADE
 3. CLASS E REVETMENT STONE IS EMBEDDED.
 4. BEAM TYPE - BTC.
 5. PIER TYPE - T PIER

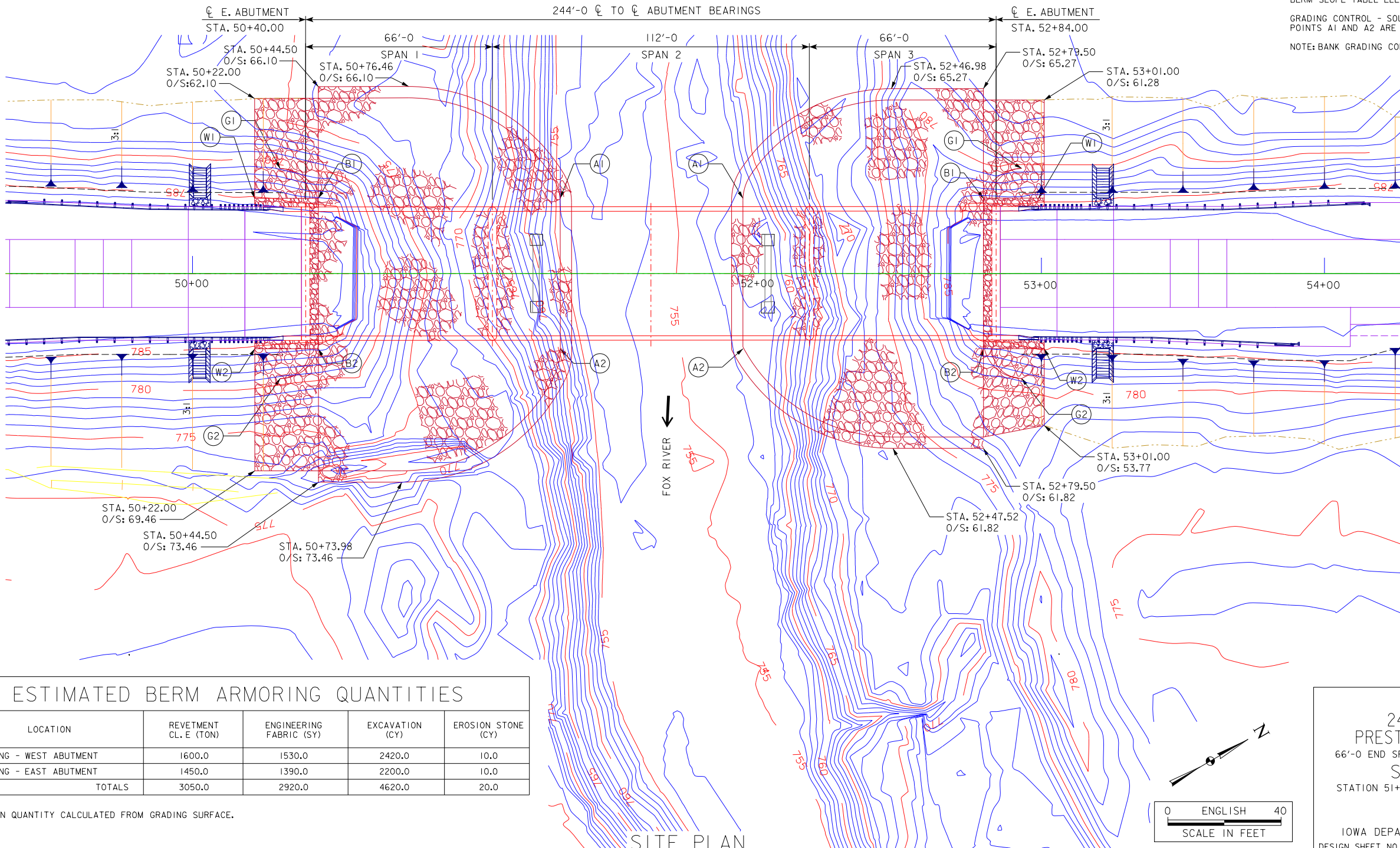


SECTION THRU EMBEDDED REVETMENT BERM



SECTION THRU EMBEDDED REVETMENT
NORMAL TO BRIDGE WING AT W POINT

BERM SLOPE LOCATION TABLE						
	WEST ABUTMENT			EAST ABUTMENT		
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.
A1	51+29.98	26.58 LT	753.26	51+94.50	26.58 LT	753.26
A2	52+29.98	26.58 RT	753.26	52+94.50	26.58 RT	753.26
B1	50+44.50	26.58 LT	781.76	52+79.50	26.58 LT	782.60
B2	50+44.50	26.58 RT	781.76	52+79.50	26.58 RT	782.60
G1	50+31.00	37.33 LT	753.26	52+93.00	37.08 LT	753.26
G2	50+31.00	36.83 RT	753.26	52+93.00	37.08 RT	753.26
W1	50+22.00	26.58 LT	781.86	53+01.00	26.58 LT	782.60
W2	50+22.00	26.58 RT	781.86	53+01.00	26.58 RT	782.60



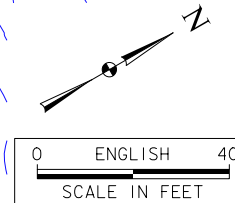
BERM SLOPE TABLE ELEVATIONS REFLECT GRADING SURFACE
 GRADING CONTROL - SOUTH AND NORTH:
 POINTS A1 AND A2 ARE BERM GRADING CONTROL LINE
 NOTE: BANK GRADING CONTROL LINE LOCATED AT BASE OF 3:1 SLOPE

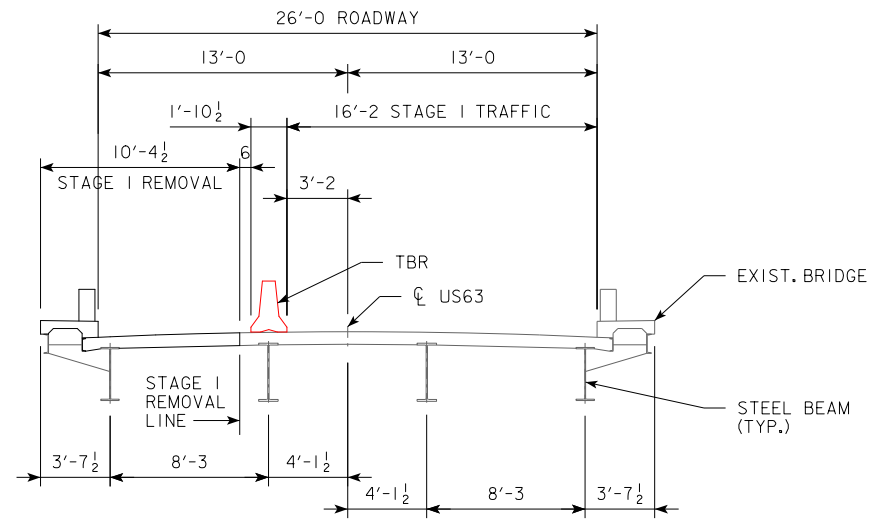
ESTIMATED BERM ARMORING QUANTITIES				
LOCATION	REVTMENT CL. E (TON)	ENGINEERING FABRIC (SY)	EXCAVATION (CY)	EROSION STONE (CY)
BERM LINING - WEST ABUTMENT	1600.0	1530.0	2420.0	10.0
BERM LINING - EAST ABUTMENT	1450.0	1390.0	2200.0	10.0
TOTALS	3050.0	2920.0	4620.0	20.0

EXCAVATION QUANTITY CALCULATED FROM GRADING SURFACE.

PRELIMINARY

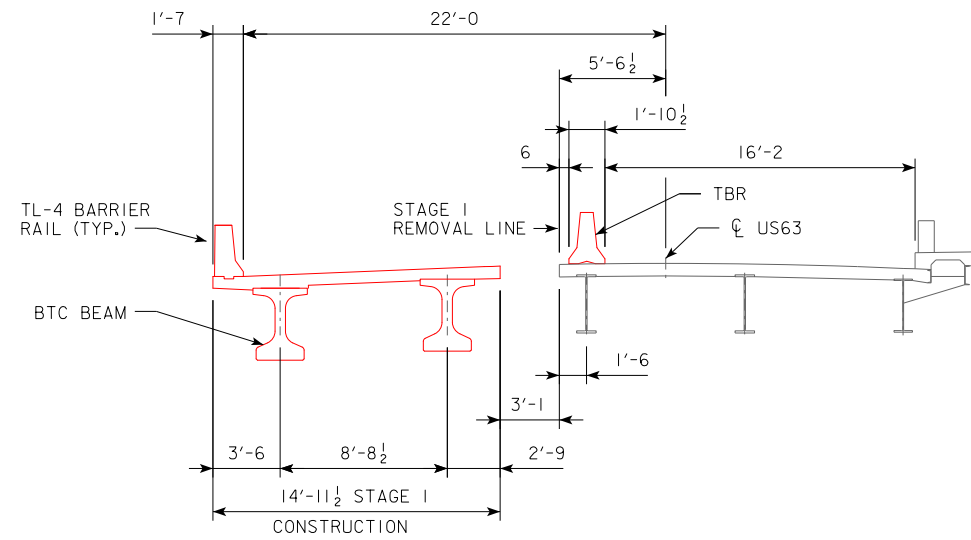
DESIGN FOR 0° SKEW
 244'-0" X 44'-0" PRETENSIONED
 PRESTRESSED CONCRETE BEAM BRIDGE
 66'-0" END SPAN (BTC BEAMS), 112'-0" INTERIOR SPAN
 SITUATION PLAN - SITE
 STATION 51+62.00 (US 63) JULY, 2020
 DAVIS COUNTY
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. 2 OF 3 FILE NO. 31701 DESIGN NO. 123



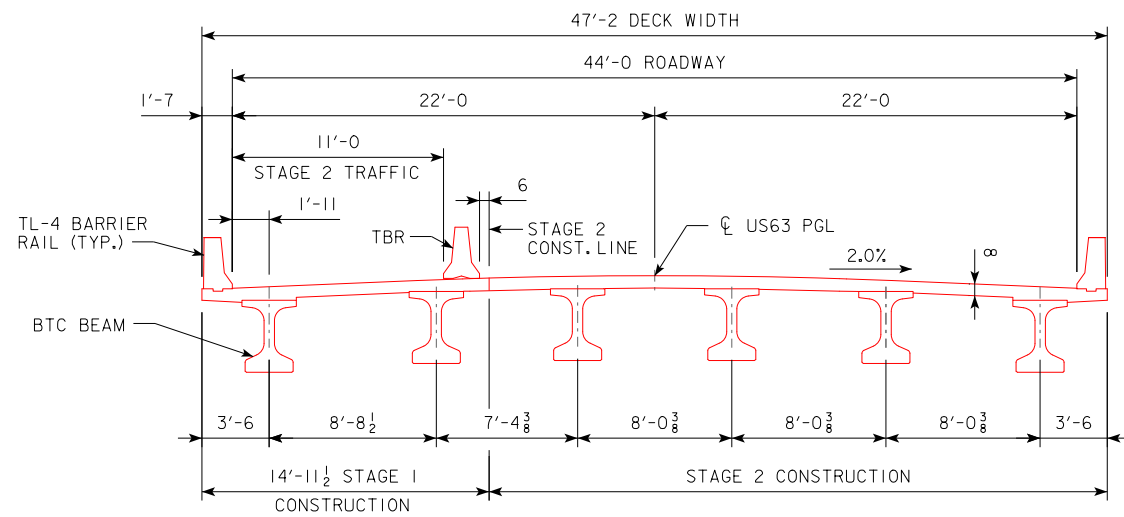


TBR - TEMPORARY BARRIER RAIL

STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE 2 CONSTRUCTION

DESIGN FOR 0° SKEW
 244'-0 X 44'-0 PRETENSIONED
 PRESTRESSED CONCRETE BEAM BRIDGE
 66'-0 END SPAN (BTC BEAMS), 112'-0 INTERIOR SPAN
 STAGE CONSTRUCTION
 STATION 51+62.00 (US 63) JULY, 2020
 DAVIS COUNTY
 IOWA DEPARTMENT OF TRANSPORTATION - HIGHWAY DIVISION
 DESIGN SHEET NO. 3 OF 3 FILE NO. 31701 DESIGN NO. 123

LINE STYLE LEGEND OF CROSS SECTION SHEETS (ROAD)

- - - - - - Existing Ground Line
- Proposed Template
- Proposed Topsoil Placement
- - - - - Additional Topsoil Removal
- Subgrade Treatment
- - - - - Granular Shoulder
- Pavement
- - - - - Existing Pipe\RCB
- Proposed Pipe\RCB
- Proposed Dike
- All Elements Associated with Proposed Entrances

LINE STYLE LEGEND OF CROSS SECTION SHEETS (SOILS)

- Topsoil (Class 10)
- Slope Dressing Only
- Class 10 Materials
- Select Loams And Clay-Loams
- Select Sand
- Unsuitable Type A Disposal
- Unsuitable Type B Disposal
- Unsuitable Type C Disposal
- Shale
- Waste
- Broken and Weathered Rock
- Solid Rock
- Boulders

Note: All layer lines and descriptions identify layers above the line.

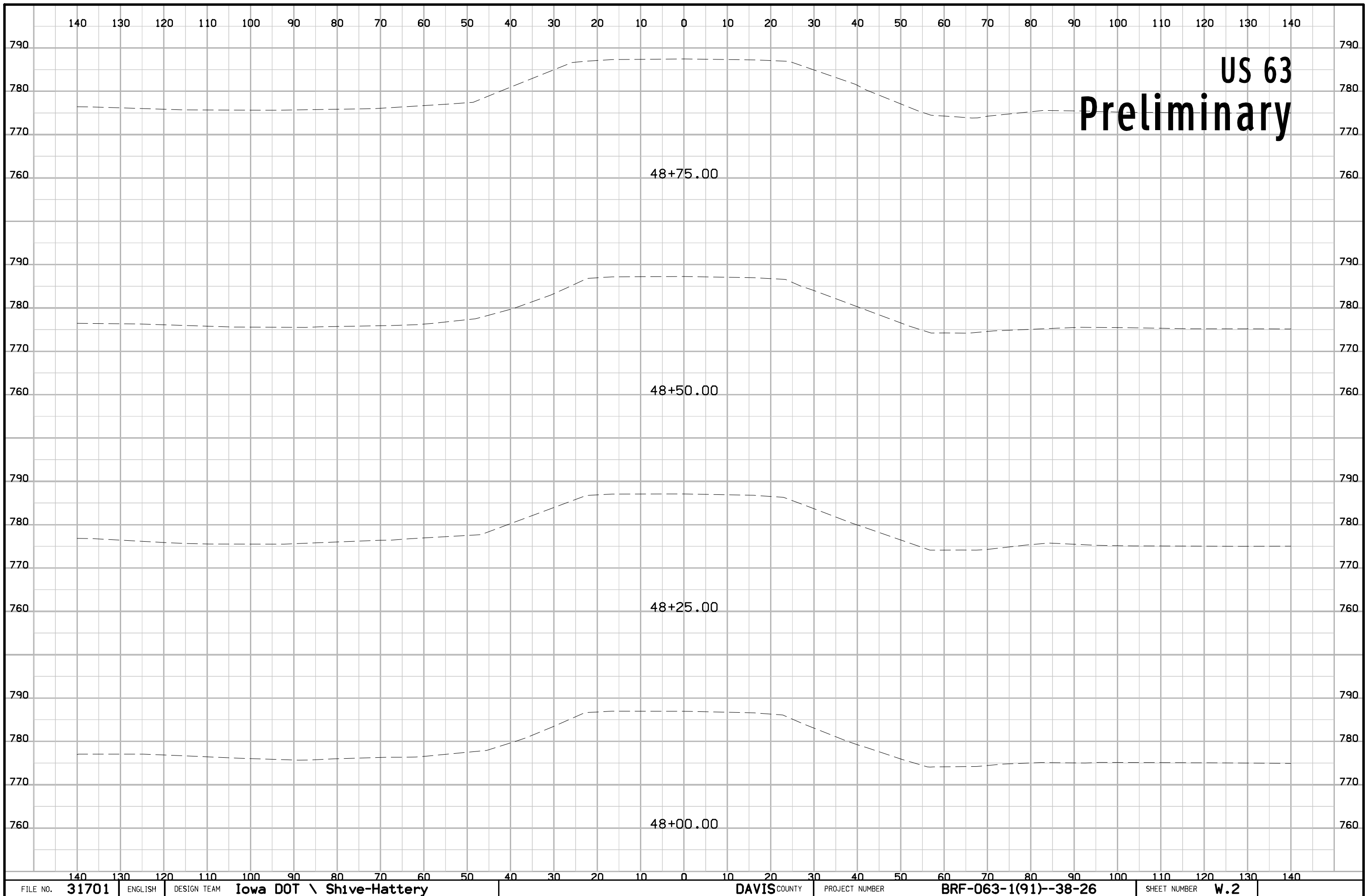
Note: Vertical or near vertical lines connecting soil layers at edges of cross sections are only for the purpose of calculating template quantities and do not depict soil stratification.

SYMBOL LEGEND OF CROSS SECTION SHEETS

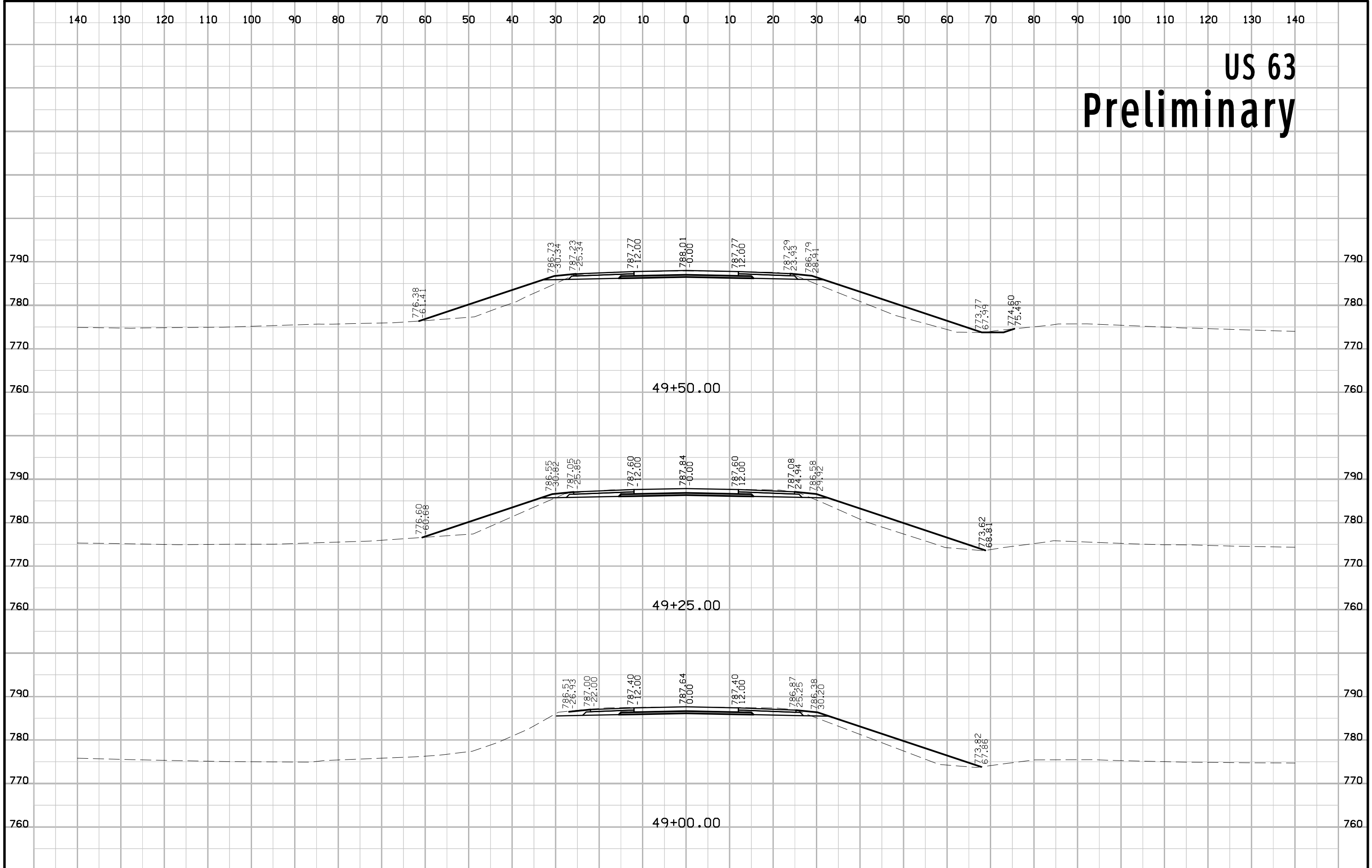
- Existing ROW
|
Existing Right-of-Way Limit
- Proposed ROW
|
Proposed Right-of-Way Limit
- Temporary ROW
|
Temporary Right-of-Way Limit

**CROSS SECTION
LEGEND AND SYMBOL
INFORMATION SHEET**

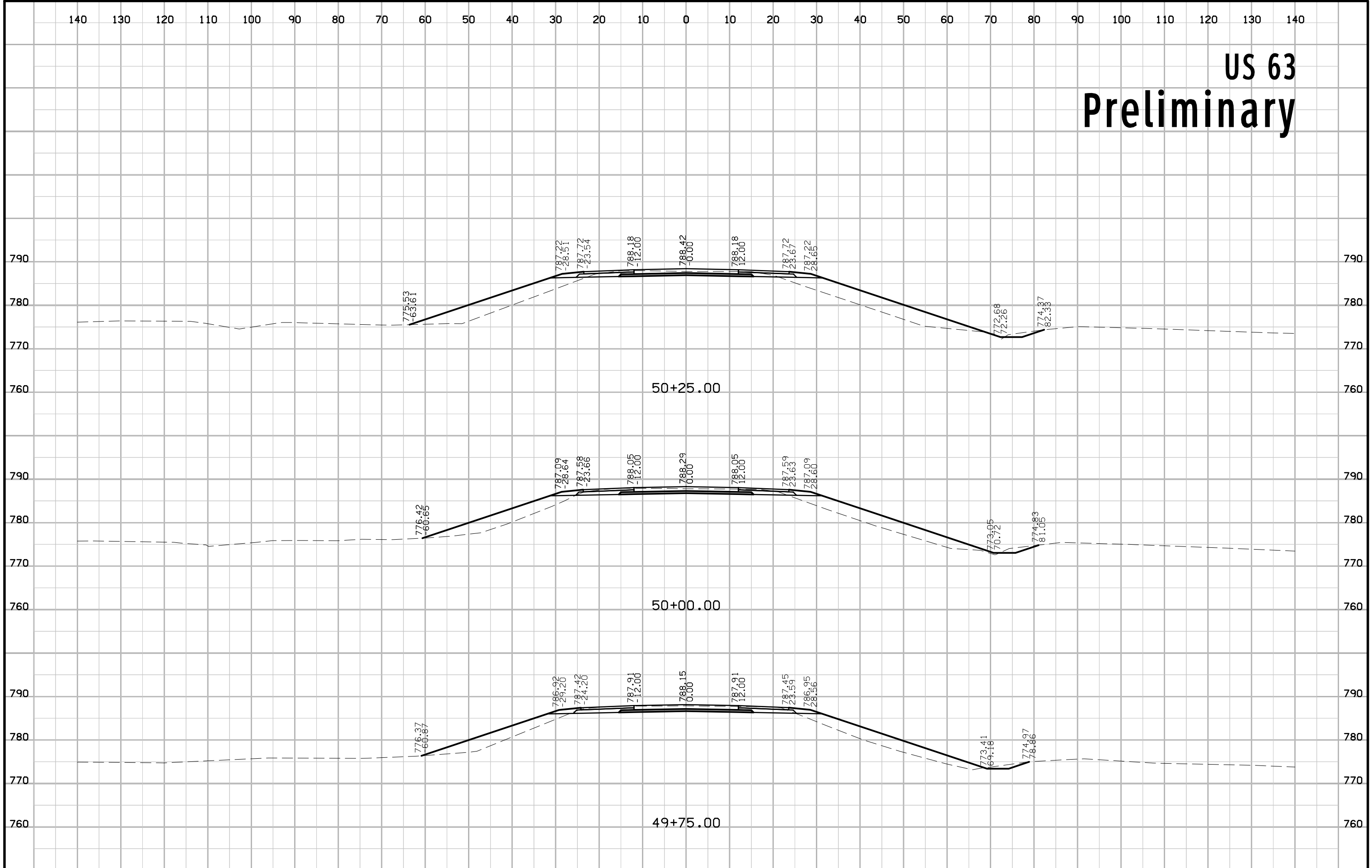
(COVERS SHEET SERIES W, X, Y, & Z)



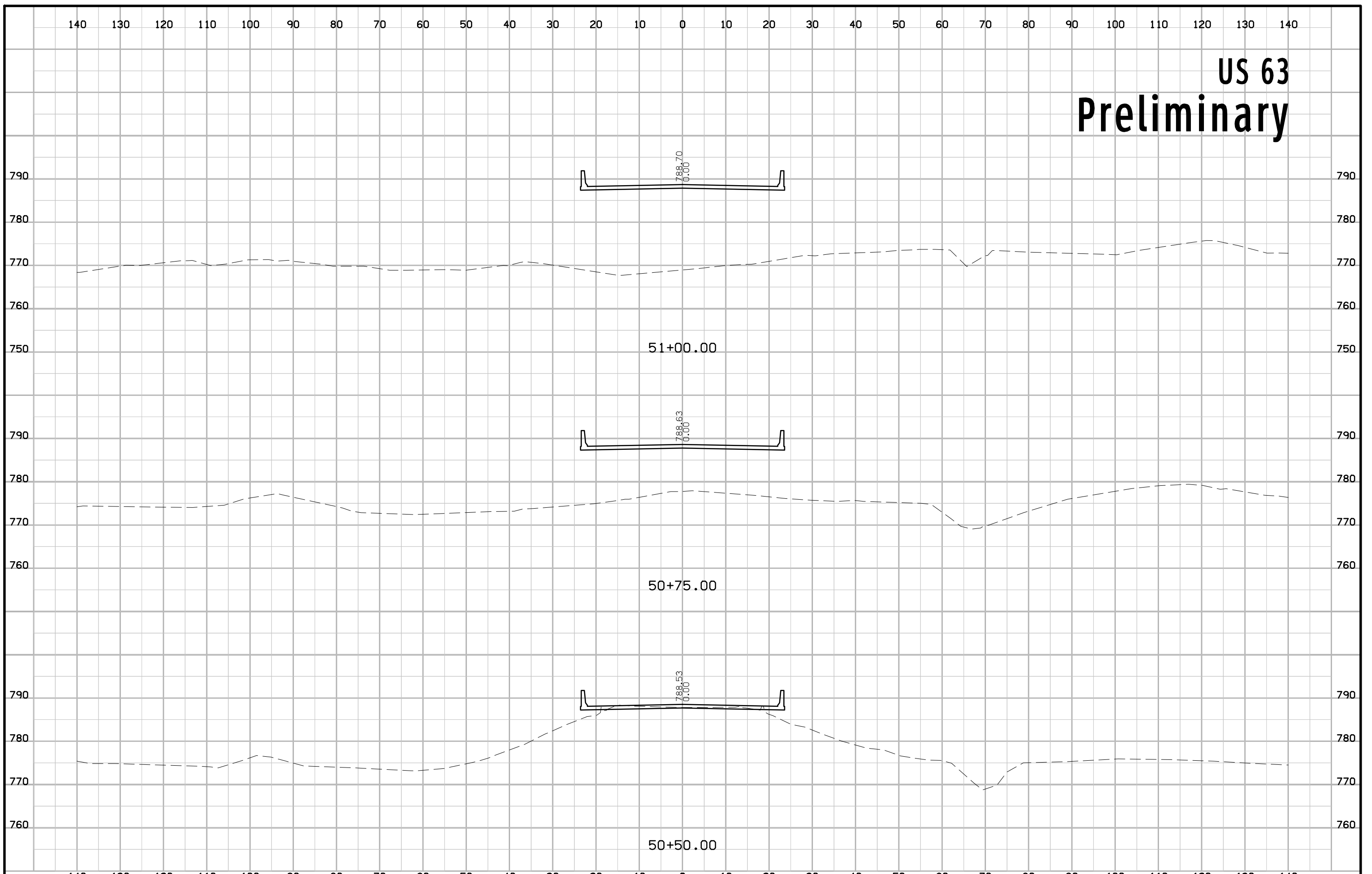
US 63 Preliminary



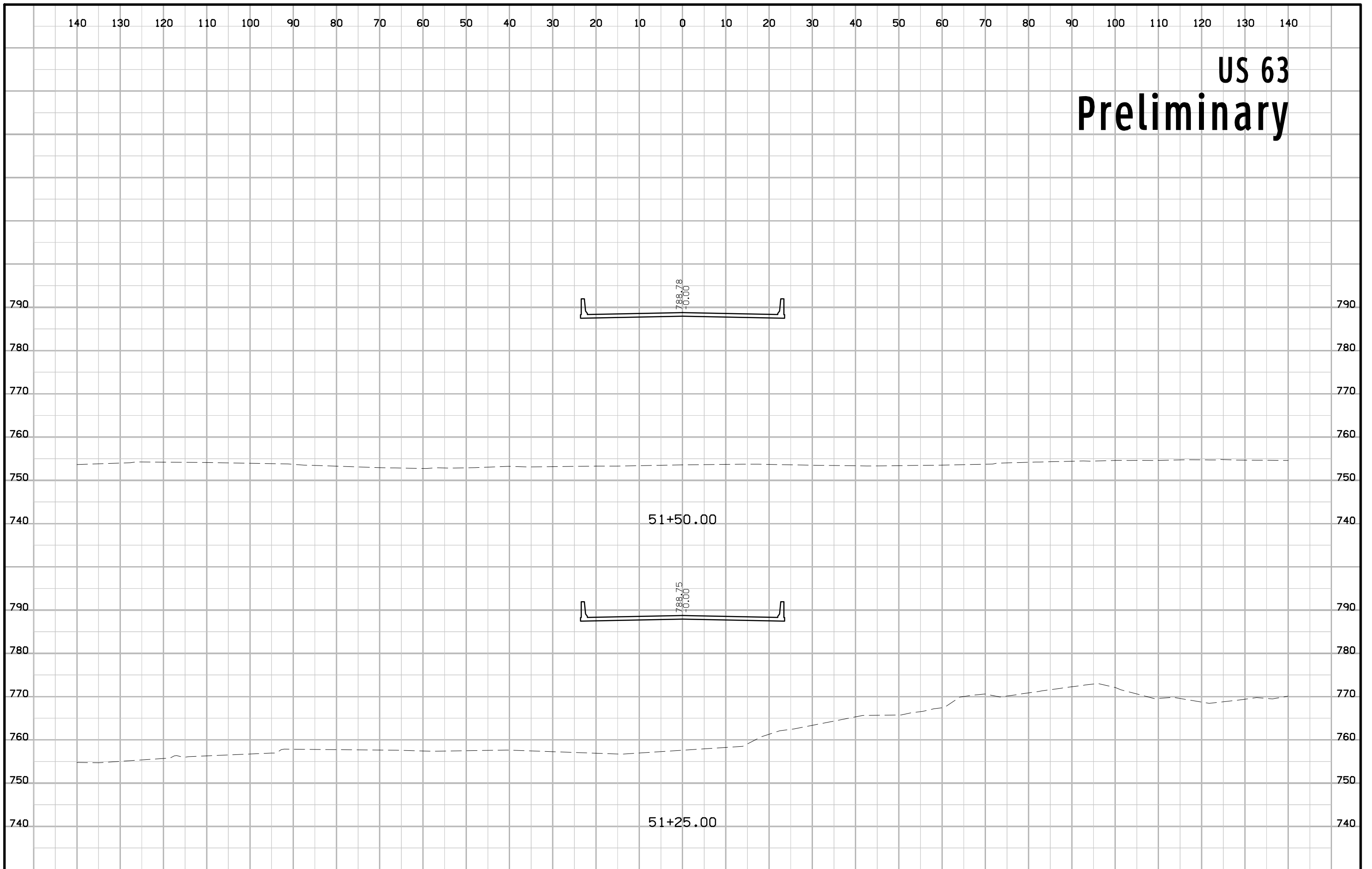
US 63 Preliminary



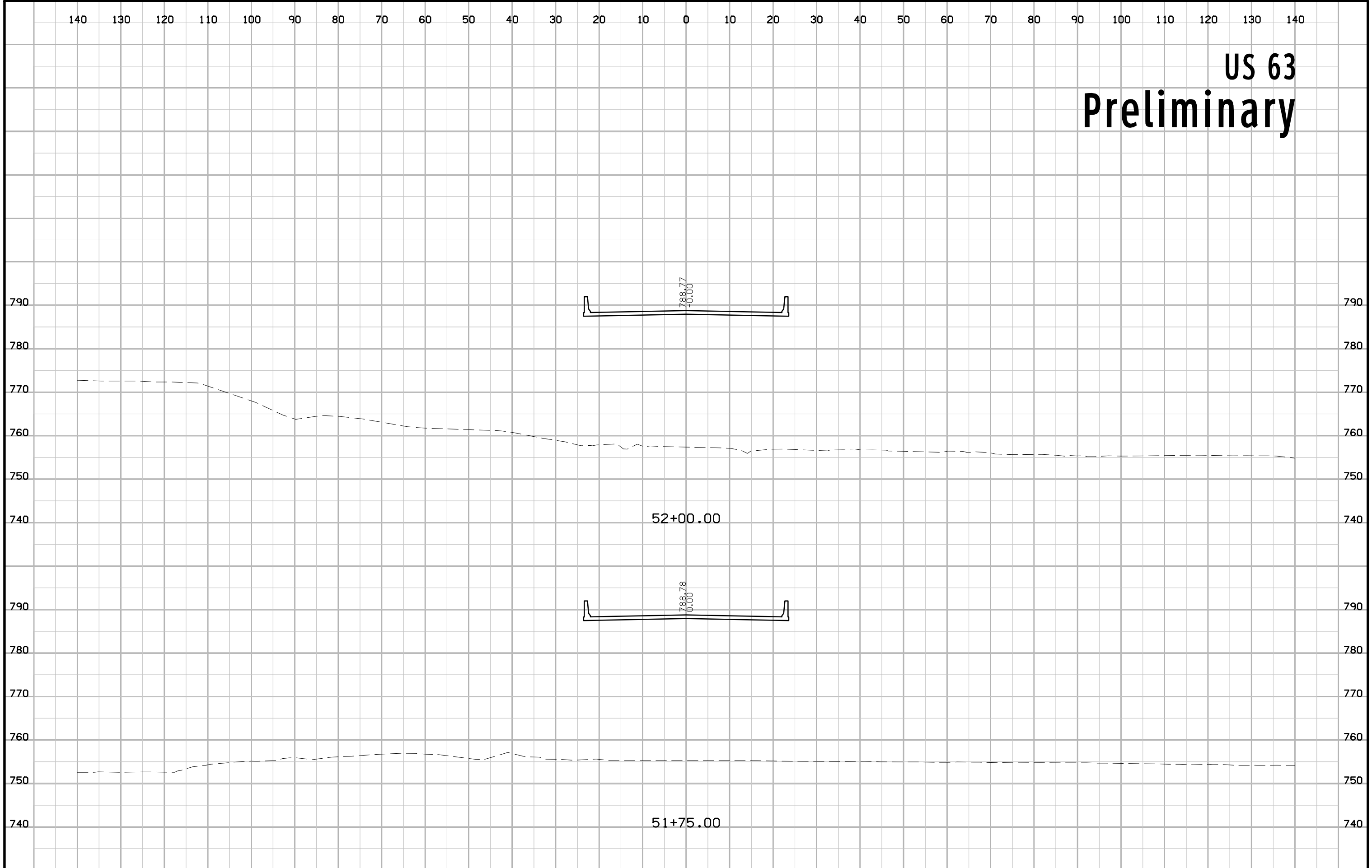
US 63 Preliminary



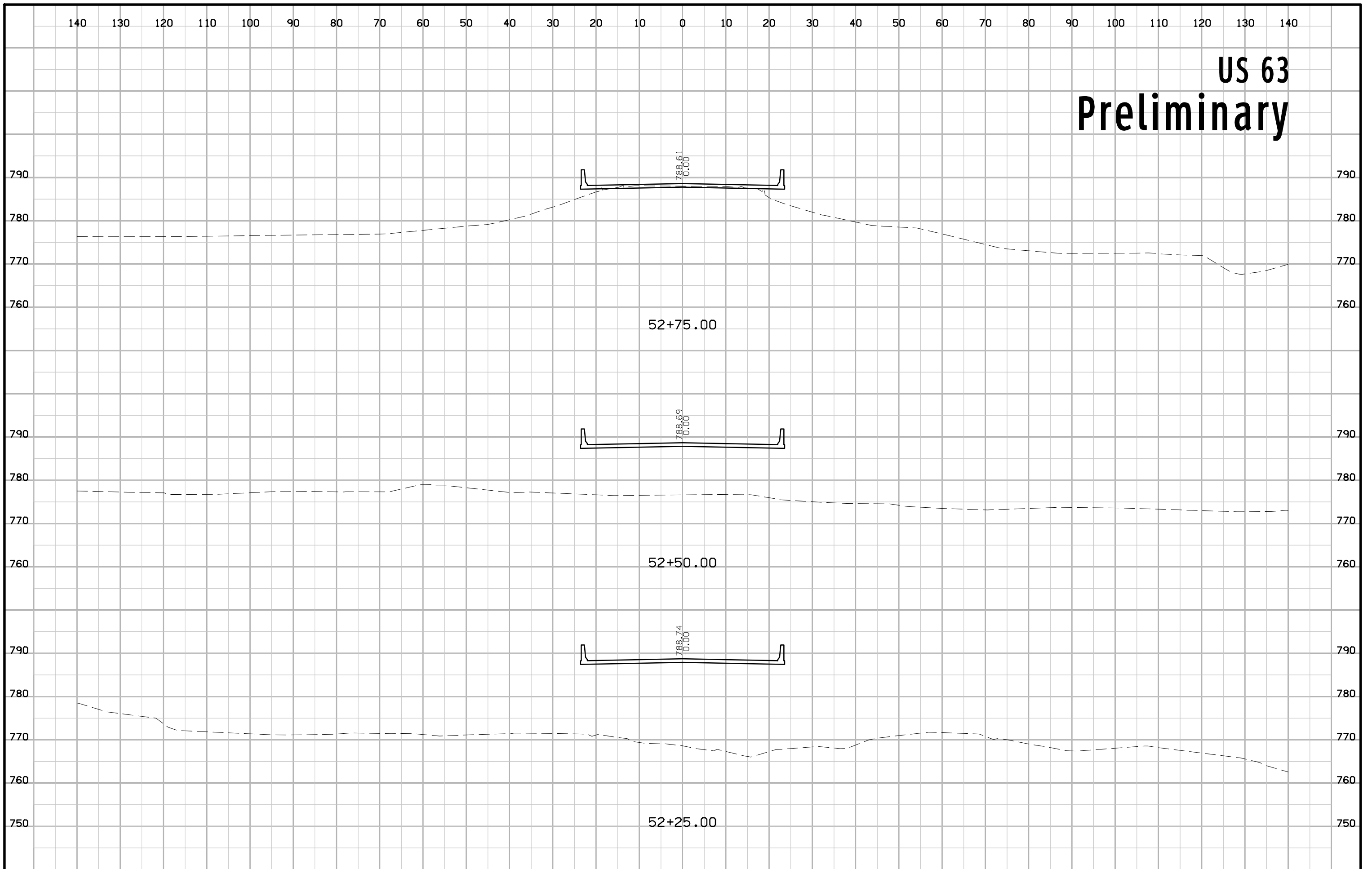
US 63 Preliminary



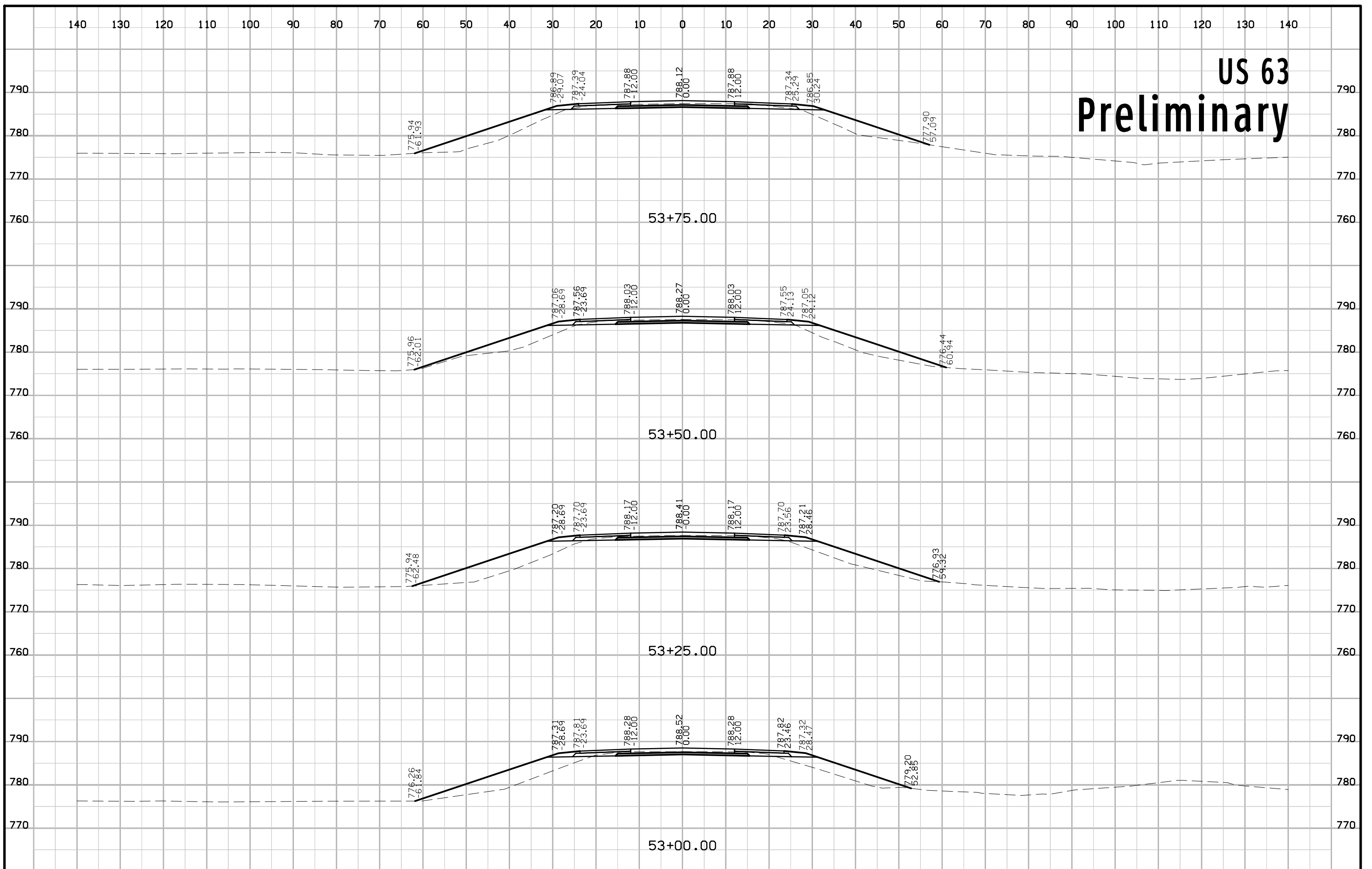
US 63 Preliminary



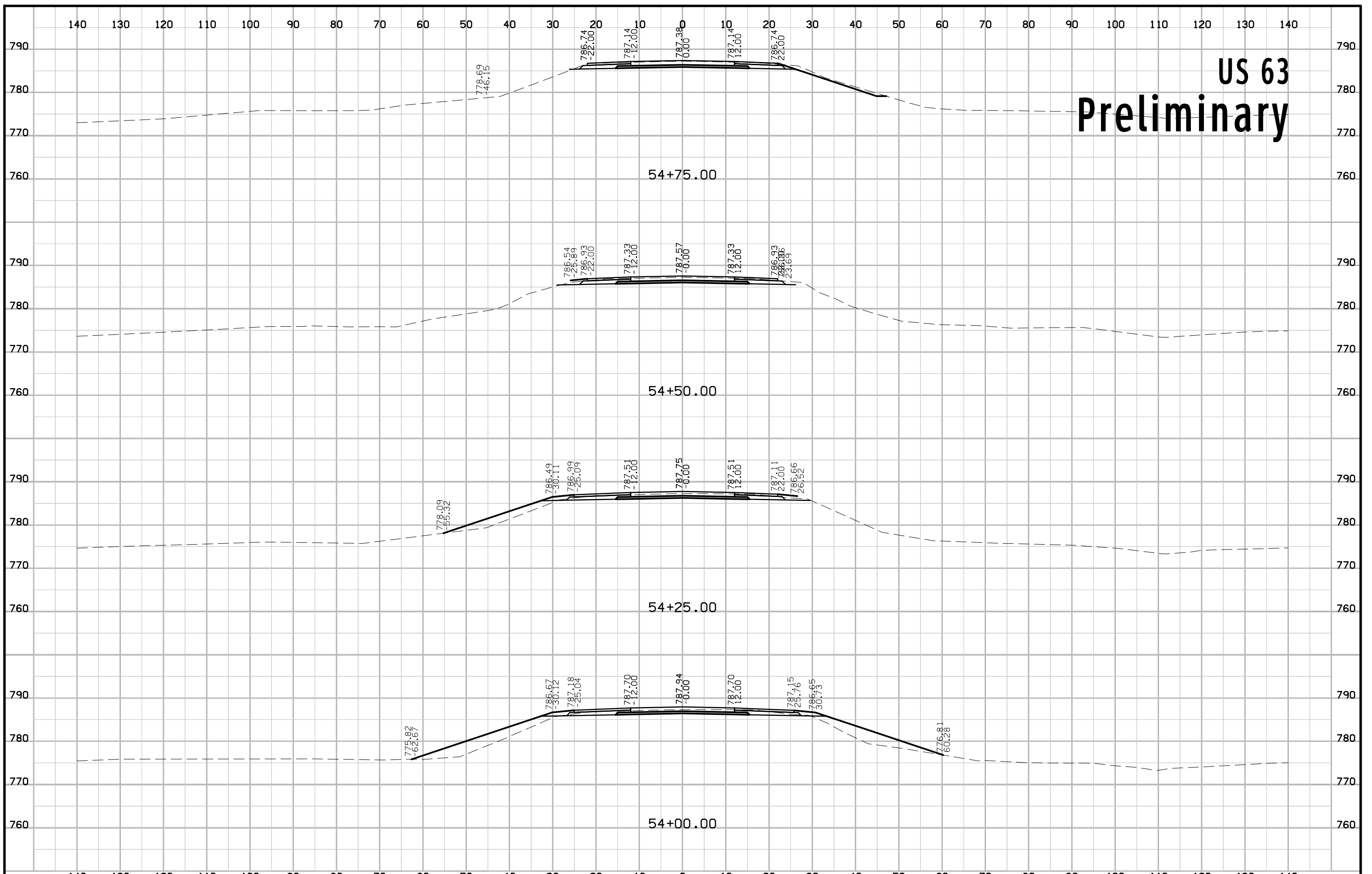
US 63 Preliminary

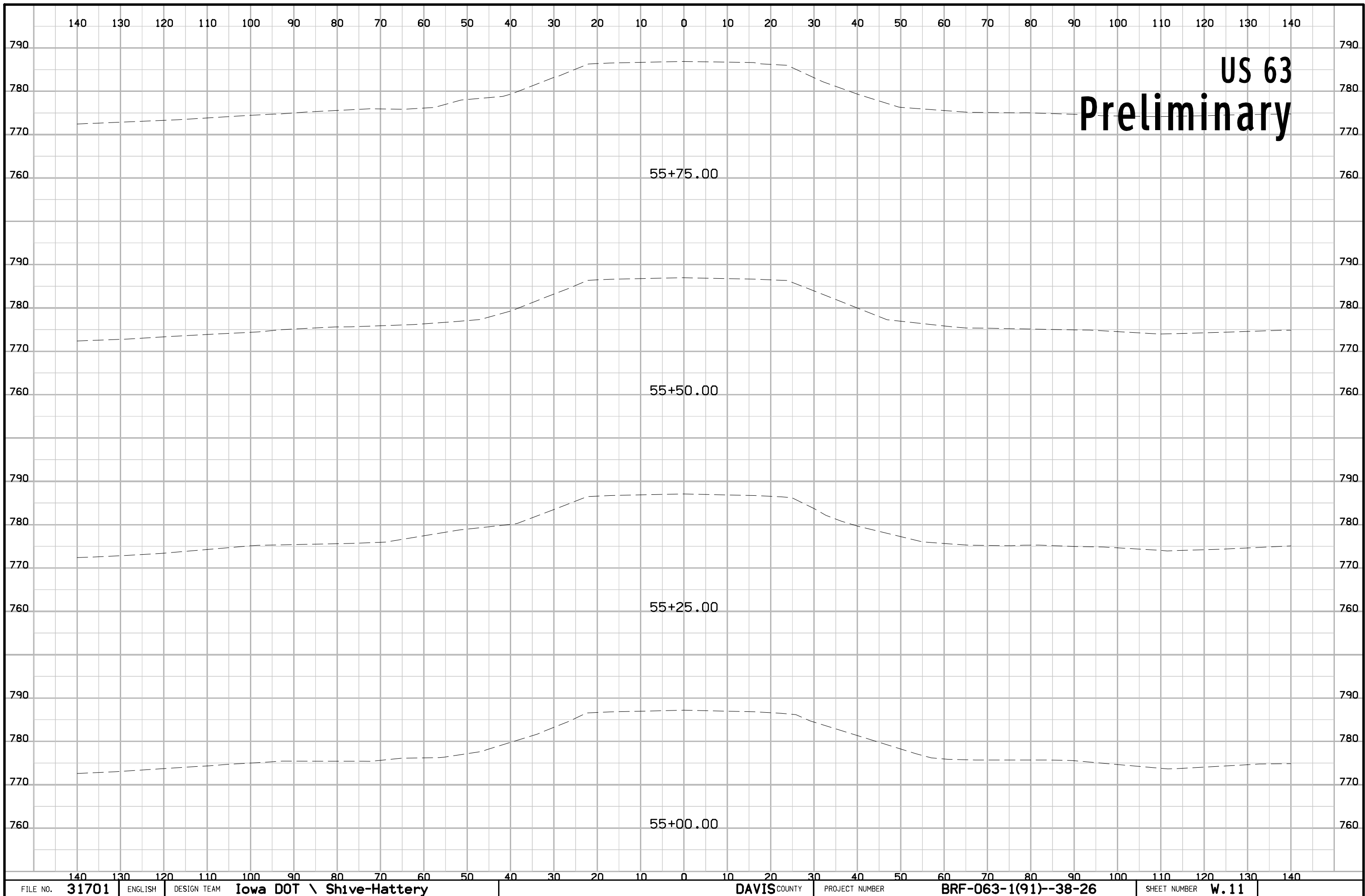


US 63 Preliminary



US 63 Preliminary





**US 63
Preliminary**

55+75.00

55+50.00

55+25.00

55+00.00