BRIDGE REPLACEMENT
BRF-006-7(94)--38-52

LETTING DATE
NOV 2027

JOHNSON COUNTY

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**
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D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 5	US 6
E Sheets	**Side Road Plan and Profile Sheets**
* E.1	NE Quadrant Trail
* E.2	SE Quadrant Trail
G Sheets	**Survey Sheets**
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G.4 - 5	Horizontal Control Tab. for all Alignments
J Sheets	**Traffic Control and Staging Sheets**
J.1	Traffic Control Plan
J.2	511 Travel Restrictions
J.3	US 6 Detour Route
V Sheets	**Bridge and Culvert Situation Plans**
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W Sheets	**Mainline Cross Sections**
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* W.2 - 17	Mainline Cross Sections

* Color Plan Sheets

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
JOHNSON COUNTY
BRIDGE REPLACEMENT
US 6 OVER IOWA RIVER 0.2 MI E OF
E JCT IA 1 IN IOWA CITY

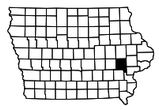
SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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

REVISIONS

	TOTAL
	39
PROJECT IDENTIFICATION NUMBER	
21-52-006-010	
PROJECT NUMBER	
BRF-006-7(94)--38-52	
R.O.W. PROJECT NUMBER	



EARTHWORK	
CUT	2,300 Cu. Yds.
FILL	500 Cu. Yds.
(Shrinkage not included)	

DESIGN DATA URBAN			
2027	AADT	35,400	V.P.D.
2047	AADT	37,800	V.P.D.
20 --	DHV	–	V.P.H.
TRUCKS		3	%
Total Design ESALs		–	

INDEX OF SEALS

SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	X	Primary Signature Block	X
X	X	X	X

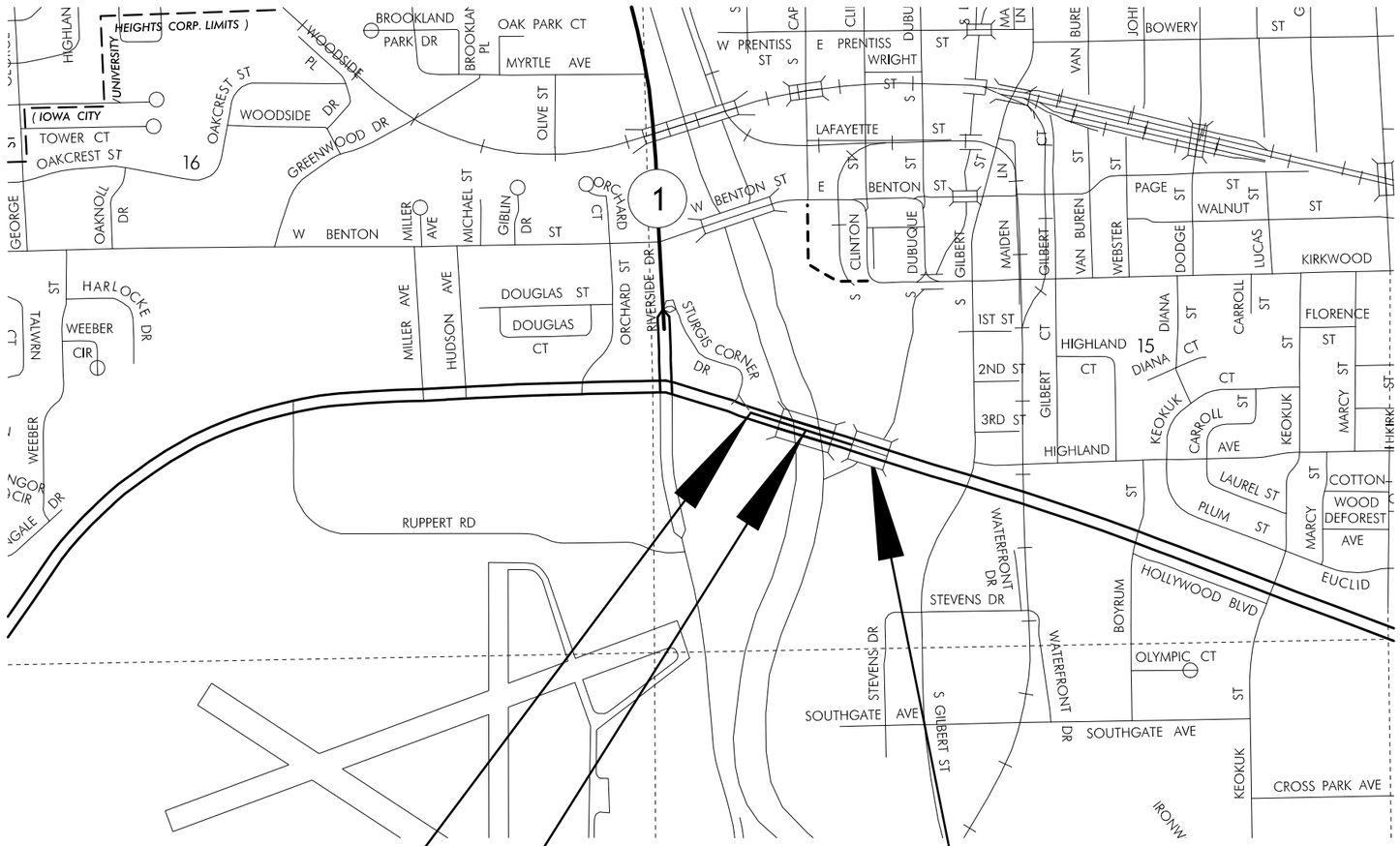
PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 4/8/26

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER A.1	

5:42:34 PM 4/8/2026 rbrown8 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_A01.dgn



BEGIN CONSTRUCTION
STA 146+50

BRIDGE
US 6 OVER IOWA RIVER
STA 150+65.90
MAINT. # 5252.2S006
FHWA# 031570 (EXST)
FHWA# 031571 (NEW)

END CONSTRUCTION
STA 155+28.78

LOCATION MAP SCALE
0 1 2 3
Miles

FILE NO. 32494	ENGLISH	DESIGN TEAM Jia\JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER A.2	

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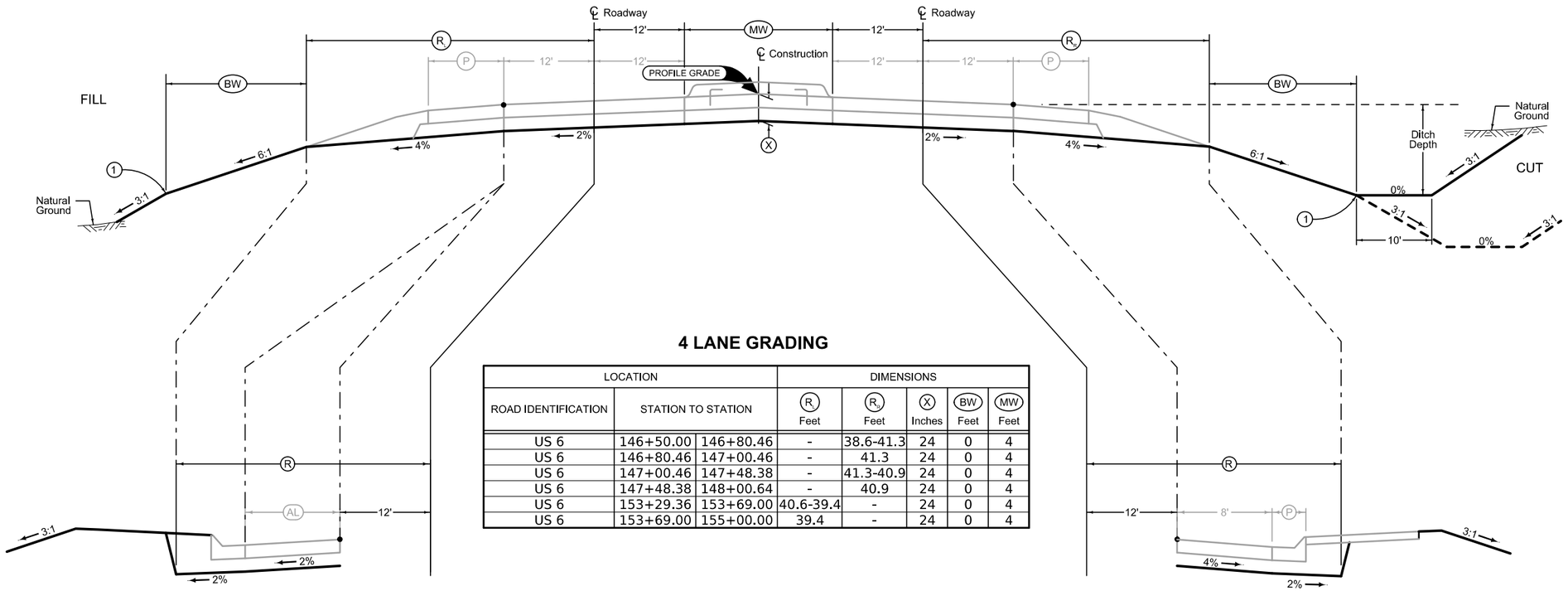
G_4D_Grade_Aux
Modified



4 LANE GRADING

LOCATION			DIMENSIONS				
ROAD IDENTIFICATION	STATION TO STATION		R_x Feet	R_0 Feet	X Inches	BW Feet	MW Feet
US 6	146+50.00	146+80.46	-	38.6-41.3	24	0	4
US 6	146+80.46	147+00.46	-	41.3	24	0	4
US 6	147+00.46	147+48.38	-	41.3-40.9	24	0	4
US 6	147+48.38	148+00.64	-	40.9	24	0	4
US 6	153+29.36	153+69.00	40.6-39.4	-	24	0	4
US 6	153+69.00	155+00.00	39.4	-	24	0	4

Auxiliary Lane Grading

LOCATION			R Feet
ROAD IDENTIFICATION	STATION TO STATION		
US 6	146+50.00	147+90.64	28.3
US 6	147+90.64	148+00.64	28.3-27.7

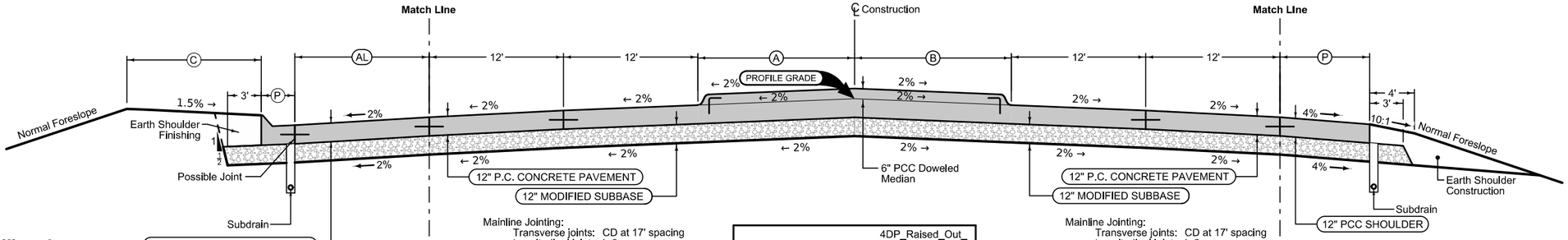
Curbed Shoulder Grading

LOCATION			R Feet
ROAD IDENTIFICATION	STATION TO STATION		
US 6	153+29.36	155+00.00	24.3

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.

(1) Refer to project plan and cross sections for specific location of foreslope change.



Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: BT-2, or L-2
Transverse joints: C at 17' spacing

2_P_FullPCC_ 04-15-25		
STATION TO STATION		(P) Feet
146+50.00	146+80.46	8

Auxiliary Lane

Longitudinal joint: L or BT
Transverse joint: Match Mainline

4_AuxLane_PCC_ 04-15-25			
Direction of Travel	BEGIN STATION	END STATION	(AL) Feet
WB	146+50.00	147+90.64	12
WB	147+90.64	148+00.64	12-11.3

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
146+50.00	148+00.64
153+29.36	155+00.00

4DP_Raised_Out_ Modified			
BEGIN STATION	END STATION	(A) Feet	(B) Feet
146+50.00	148+00.64	2	2
153+29.36	155+00.00	2	2

Mainline Jointing:
Transverse joints: CD at 17' spacing
Longitudinal joint: L-2

BEGIN STATION	END STATION
146+50.00	148+00.64
153+29.36	155+00.00

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

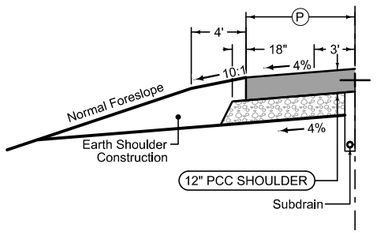
Single pour: L-2
Staged : BT-2
Transverse: C at 17' spacing

2_Curb_ 04-15-25				
STATION TO STATION		(P) Feet	(C) Feet	Curb Type See PV-102
146+50.00	148+00.64	1.33	12	6" STD

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

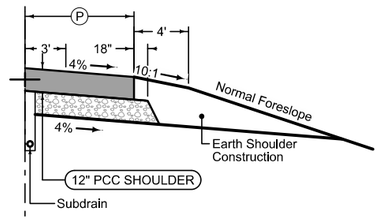
4_P_Guard_ 04-21-20			
Direction of Travel	BEGIN STATION	END STATION	(P) Feet
WB	153+29.36	155+28.78	9.5

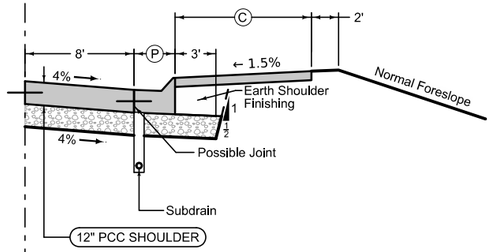


Paved Shoulder at Guardrail

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

4_P_Guard_ 04-21-20			
Direction of Travel	BEGIN STATION	END STATION	(P) Feet
EB	146+80.46	147+00.46	11.4
EB	147+00.46	147+48.38	11.4-9.5
EB	147+48.38	148+00.64	9.5



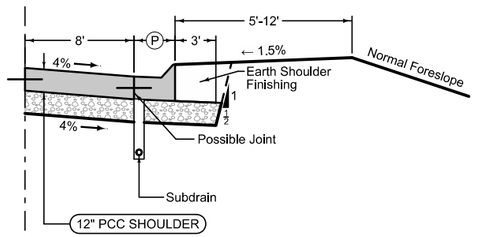


Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: C at 17' spacing

2_Curb_ 04-15-25				
STATION TO STATION		(P) Feet	(C) Feet	Curb Type See PV-102
153+29.36	154+75.00	1.33	10	6" STD



Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

Single pour: L-2
Staged : BT-2
Transverse: C at 17' spacing

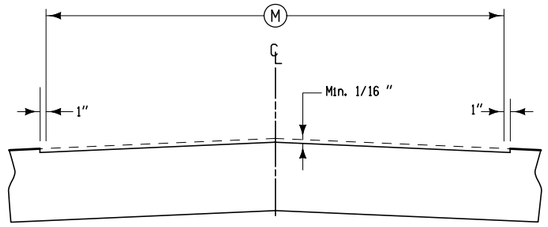
2_Curb_ 04-15-25			
STATION TO STATION		(P) Feet	Curb Type See PV-102
154+75.00	155+00.00	1.33	6" STD

Paved Shoulder at Guardrail

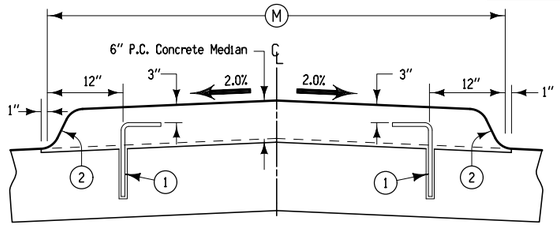
PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at mainline spacing
HMA Shoulder Jointing
Longitudinal joint: B

4_P_Guard_ 04-21-20			
Direction of Travel	BEGIN STATION	END STATION	(P) Feet
EB	146+80.46	147+00.46	11.4
EB	147+00.46	147+48.38	11.4-9.5
EB	147+48.38	148+00.64	9.5

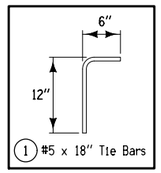
6149
04-17-07



Details of Milling



Details of Median Placement



2 6" Standard Curb

Notes:
This section may be appropriately modified in areas specifically designated by the Engineer.
Use 'C' joints in the doweled median and match the location of all transverse and longitudinal joints to the joints in the existing pavement.
Place tie bars at 24" C-C longitudinal spacing between joints in existing pavement.
Drill ¾" holes for tie bars and epoxy to new pavement. See Tabulation 112-5 for additional details. Epoxy material shall be as specified in Materials IM491.11, appendix C.

DOWELED MEDIAN WITH STANDARD CURB

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER B.3	

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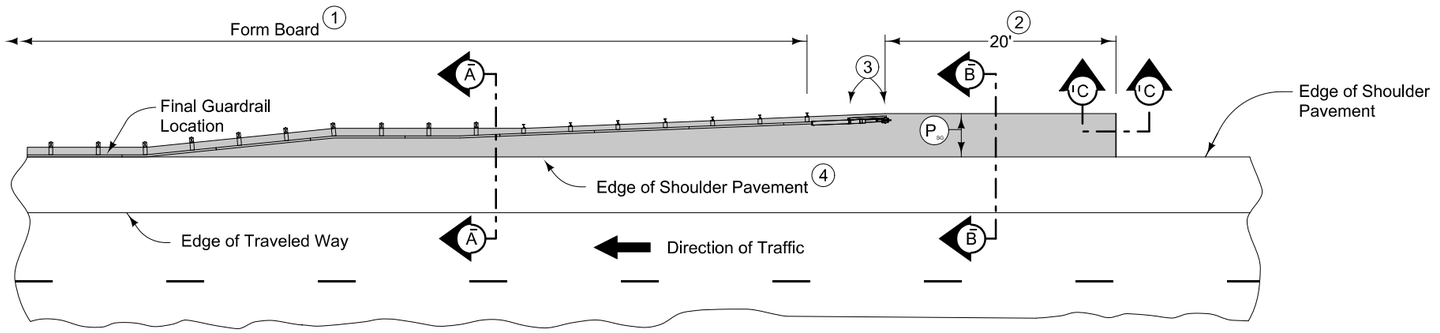
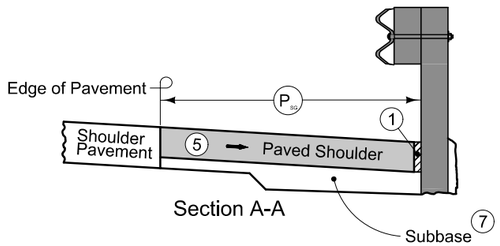
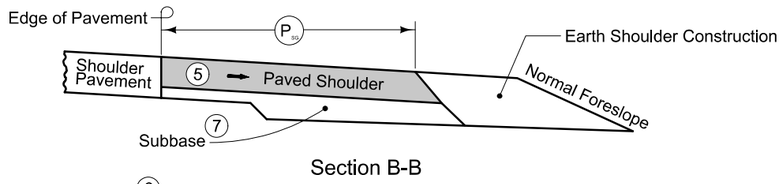
DESIGNER INFO | 7158 | 10-21-25



PLAN VIEW

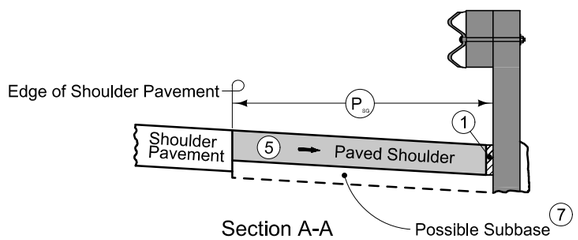


Section A-A

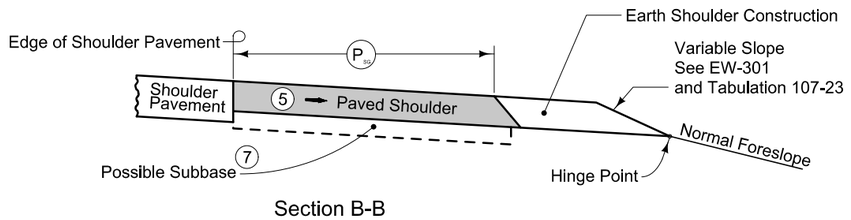


Section B-B

NEW CONSTRUCTION 6



Section A-A



Section B-B

EXISTING SHOULDER

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) 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.

(2) Continue paved shoulder 20 feet beyond the center of the first post.

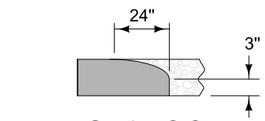
(3) Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.

(4) 'BT' (per PV-101) joint for PCC shoulder.
'B' (per PV-101) joint for HMA shoulder.

(5) Match shoulder slope.

(6) The Contractor has the option to pave the paved shoulder at guardrail and the full width paved shoulder as one operation.

(7) Refer to other details in the plan.



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

PAVED SHOULDER AT GUARDRAIL
(ADJACENT TO FULL 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
- WH Water Hydrant (Rural)
- Septic Tank
- C Cistern
- LP L.P. Gas Tank (No Footing)
- UST Underground Storage Tank
- Latrine
- Satellite TV Dish
- WHU Water Hook Up
- RT Radio Tower
- TA Tower Anchor
- Guardrail (Beam or Cable)
- GP Guard Post (one or two)
- Guard Post (over two)
- FP Filler Pipe
- GV Gas Valve
- WV Water Valve
- SL Speed Limit Sign
- MM Mile Marker Post
- SIGN Sign
- TCB Traffic Signal Control Box
- RRB Rail Road Signal Control Box
- TSB Telephone Switch Box
- EB Electric Box

UTILITY LEGEND

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.**	
Lavender	(9)	Temporary Pavement Shading
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed Granular Shading
Orange	(70)	Proposed Shoulder Granular Shading
Yellow	(68)	Proposed Shoulder Paved Full Depth Shading
Yellow	(132)	Proposed Shoulder Paved Partial Depth Shading
Gray, Dark	(112)	Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)	Grading Shading
Orange, Light	(134)	Proposed Granular Entrance Shading
Yellow	(220)	Proposed Paved Entrance Shading
Tan	(8)	Proposed Sidewalk Shading
Blue, Light	(230)	Proposed Sidewalk Landing Shading
Pink	(11)	Proposed Sidewalk Ramp Shading
Green, Light	(225)	Existing Pavement Shading
Red	(3)	Proposed Structure Shading
Red	(3)	Delineates Restricted Areas

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
- Survey Line
- 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)

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER D.1	

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Sta. 145+04.0, 75.0' Lt.
12"x19.5' RCP
(U.A.C.)

Sta. 145+37.9, 76.3' Lt.
12"x44.0' RCP
(U.A.C.)

Sta. 145+70.4, 90.6' Lt.
12"x33.6' RCP
(U.A.C.)

Sta. 146+91.4, 77.0' Lt.
12"x256.1' RCP
Remove 37' RT
Remove Apron

East Lucas TWP.
T-79N R-6W
SEC. 15

Sta. 150+65.9
Skew 30° RT AH
320' x 56'
Continuous I-Beam Bridge
D.A.=3230 sq. mi. -H-R-F
(REMOVE)

Sta. 150+65.00
Build 356' x 96.67'
Prestressed Concrete
Beam Bridge
Skew 30° RT AH

145+00 146+00 147+00 148+00 149+00 150+00 151+00

STA 146+50.00 (ML006)
BEGIN PROJECT

US HWY 6

STA 148+00.64 (ML006)
BEGIN BRIDGE APPROACH
PAVING

Sta. 147+44.8, 78.9' Rt.
72"x344.4' RCP
(U.A.C.)

0 20
FEET

Sta. 149+43.3, 83.4' Rt.
72"x47.1' RCP
(U.A.C.)

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER D.2	

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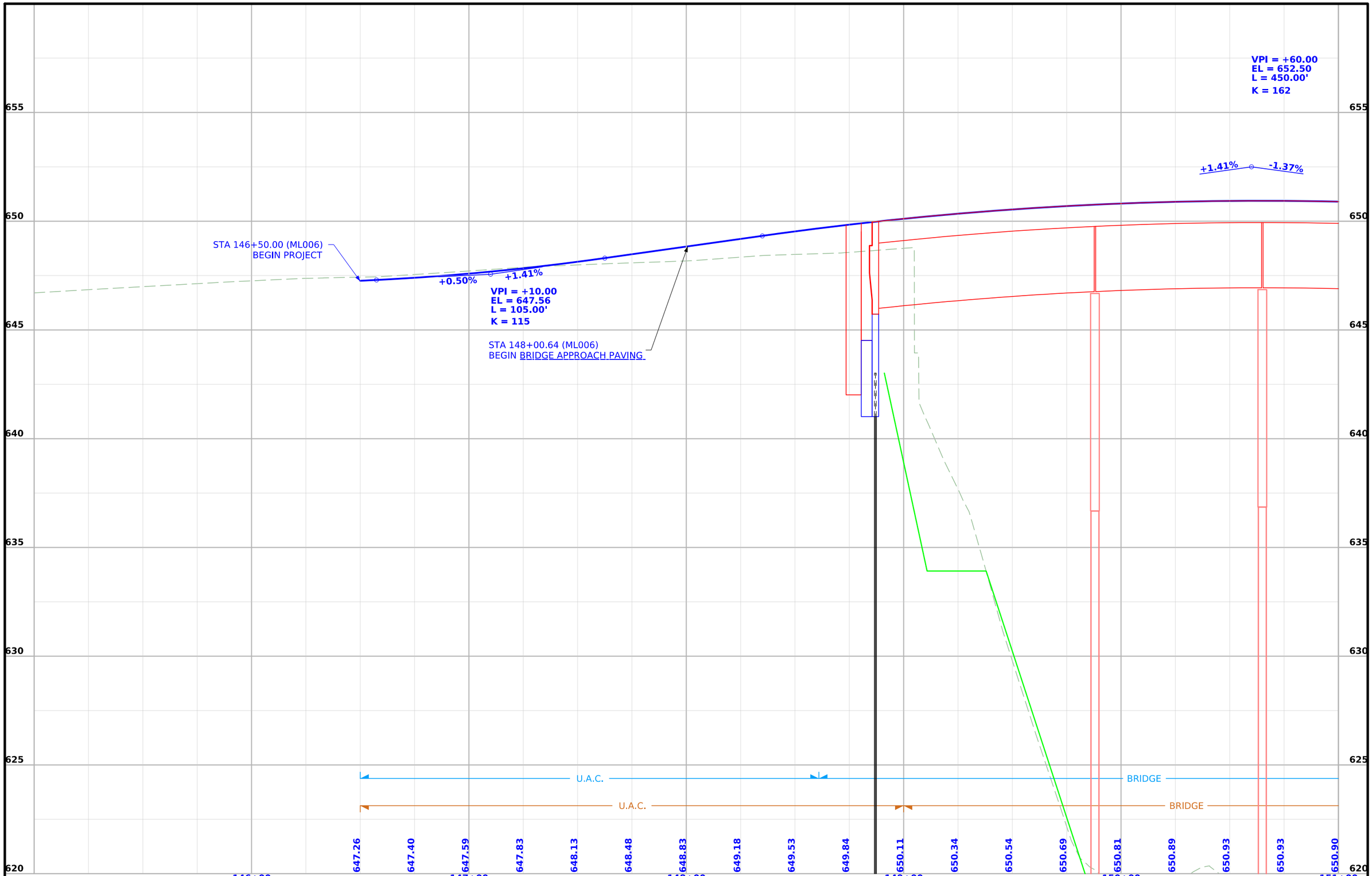

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Sta. 151+90.0, 96.0' Lt.
12"x63.6' RCP
(U.A.C.)

East Lucas TWP.
T-79N R-6W
SEC. 15

Sta. 155+55.2
Skew 30° LT AH
14'x14'x112.9' Twin RCB
D.A.=10 sq. mi.-R
(U.A.C.)

151+00
152+00
153+00
154+00
155+00
156+00
157+00

STA 153+29.36 (ML006)
END BRIDGE APPROACH PAVING

US HWY 6

END PROJECT
STA 155+28.78

+74 PROP.
TYPE "C" ENT.
REMOVE

0 20
FEET

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER D.4

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STA 153+29.36 (ML006)
END BRIDGE APPROACH PAVING

STA 155+28.78 (ML006)
END PROJECT

-1.37%

-0.50%
VPI = +40.00
EL = 647.30
L = 105.00'
K = 121

655
650
645
640
635
630
625
620

BRIDGE
U.A.C.
BRIDGE
U.A.C.

650.82
650.71
650.55
650.36
650.13
649.86
649.55
649.22
648.87
648.53
648.19
647.85
647.56
647.32
647.14
647.00

152+00
153+00
154+00
155+00
156+00
157+00

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER D.5	

2:16:08 PM 4/8/2026 rbrown8 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_D01.dgn

STA 1154+00.00
INSTALL 18" x 40' RCP
SKEW = 25° RT AHD.
LT 637.91
FL = RT 638.40

East Lucas TWP.
T-79N R-6W
SEC. 15

Δ = 56°17'27.60" (LT)
T = 40.12'
L = 73.68'
R = 75.00'
E = 10.06"

1151+00
1152+00
1153+00
1154+00
POB 1152+80.00
PC 1153+06.00
PT 1153+79.68
POE 1154+45.44
PI 1153+46.12
US HWY 6
0 20 FEET

VPI = +29.00
EL = 647.93
L = 25.00'
K=7
-1.36%
-4.99%
U.A.C.
U.A.C.
648.35
648.04
646.99
645.75
644.50
643.25
642.73

650
645
640
635

1151+00
1152+00
1153+00
1154+00
1155+00
1156+00

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER E.1

5:13:23 PM 4/8/2026 rbrown8 pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_E01.dgn

East Lucas TWP.
T-79N R-6W
SEC. 15

US HWY 6

154+00

155+00

4153+00

4154+00

POB 4152+42.97

PC 4153+24.39

PT 4153+57.59

PT 4154+18.66

POT 4154+40.00

PI 4153+40.92

PC 4153+76.76

PI 4153+99.86

TILE

Δ = 09°27'13.80" (LT)
T = 16.54'
L = 33.00'
R = 200.00'
E = 0.68'

Δ = 60°00'59.14" (LT)
T = 23.10'
L = 41.90'
R = 40.00'
E = 6.19'

0 20
FEET

+5.00%

U.A.C.

U.A.C.

638.34 639.45 640.70 641.95 643.20 644.45 645.70 646.95 647.20

645
640
635
630

4151+00 4152+00 4153+00 4154+00 4155+00 4156+00

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER E.2

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SURVEY INDEX

County: Johnson
PIN: 21-52-006-010
Project Number: BRF-006-7(94)--38-52
Location: Iowa River 0.2 mi E of E Jct IA 1 in Iowa City
Type of Work: Bridge Work
Project Directory: 5200601021

Survey Personnel

Samuel Schilb – Assistant Survey Party Chief
Robert Fredrickson - Assistant Survey Party Chief

Date(s) of Survey

Begin Date	08/14/2023
End Date	12/20/2023

General Information

This survey is for unspecified bridge work over the Iowa River 0.2 mi E of E Jct IA 1 in Iowa City. This survey request was for the US Hwy 6 corridor only. 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 10 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for U.S. Hwy 18 this survey is a retrace of As-built Plans No. DU-DF-1052(5). Survey stationing was equated to the plan PI at Sta. 172+26.15 and carried back without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PI Sta. 172+26.15 As-built Plans Project No. DU-DF-1052(5)
Survey PI Sta. 172+26.15

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 10 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

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 10 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code Description
595545	7930171.64	20540168.82	690.15	CP 5/8th" rebar Davenport RCE CP fnd as described
595546	7932352.49	20532000.48	679.30	CP 5/8th" rebar Davenport RCE CP fnd as described
300	7931775.17	20536316.94	644.37	CP Set 5/8th" x 42" Rebar from the intersection of S Gilbert St proceed on hwy 6 East 485' point is +- 40' N of CL of hwy 6

ALIGNMENT COORDINATES

Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting
1	ML006	140+00.00	7932315.95	20534577.48															
2	ML006	172+26.15	7931276.36	20537631.54															
1	TRA006	1152+80.00	7931941.67	20535802.20															
2	TRA006							1153+06.00	7931933.29	20535826.81	1153+46.12	7931920.36	20535864.79	1153+79.68	7931944.78	20535896.63			
3	TRA006	1154+45.44	7931984.80	20535948.80															
1	TRD006	4152+42.97	7931762.00	20535759.16															
2	TRD006							4153+24.39	7931764.46	20535840.54	4153+40.92	7931764.96	20535857.07	4153+57.39	7931768.16	20535873.29			
3	TRD006							4153+76.76	7931771.92	20535892.30	4153+99.86	7931776.40	20535914.96	4154+18.66	7931798.27	20535922.40			
4	TRD006	4154+40.00	7931818.48	20535929.28															

SPIRAL OR CIRCULAR CURVE DATA

Name	Location	SCS	S	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	C	T	L	R	E	Remarks
C1	TRA006										56.291	40.123	73.685	75.000	10.058	
C1	TRD006										9.454	16.538	33.000	200.000	0.683	
C2	TRD006										60.016	23.102	41.899	40.000	6.192	

108_23A
8/15/22

TRAFFIC CONTROL PLAN

1. US 6 will be closed at the bridge over the Iowa River during construction. Detour route will include 1.3 miles south on Gilbert Street to McCollister Boulevard, 0.9 miles west to Old Highway 218, and 1.2 miles north to Highway 6. The detour will be signed and maintained by Iowa DOT. See US 6 detour on Sheet J.3.

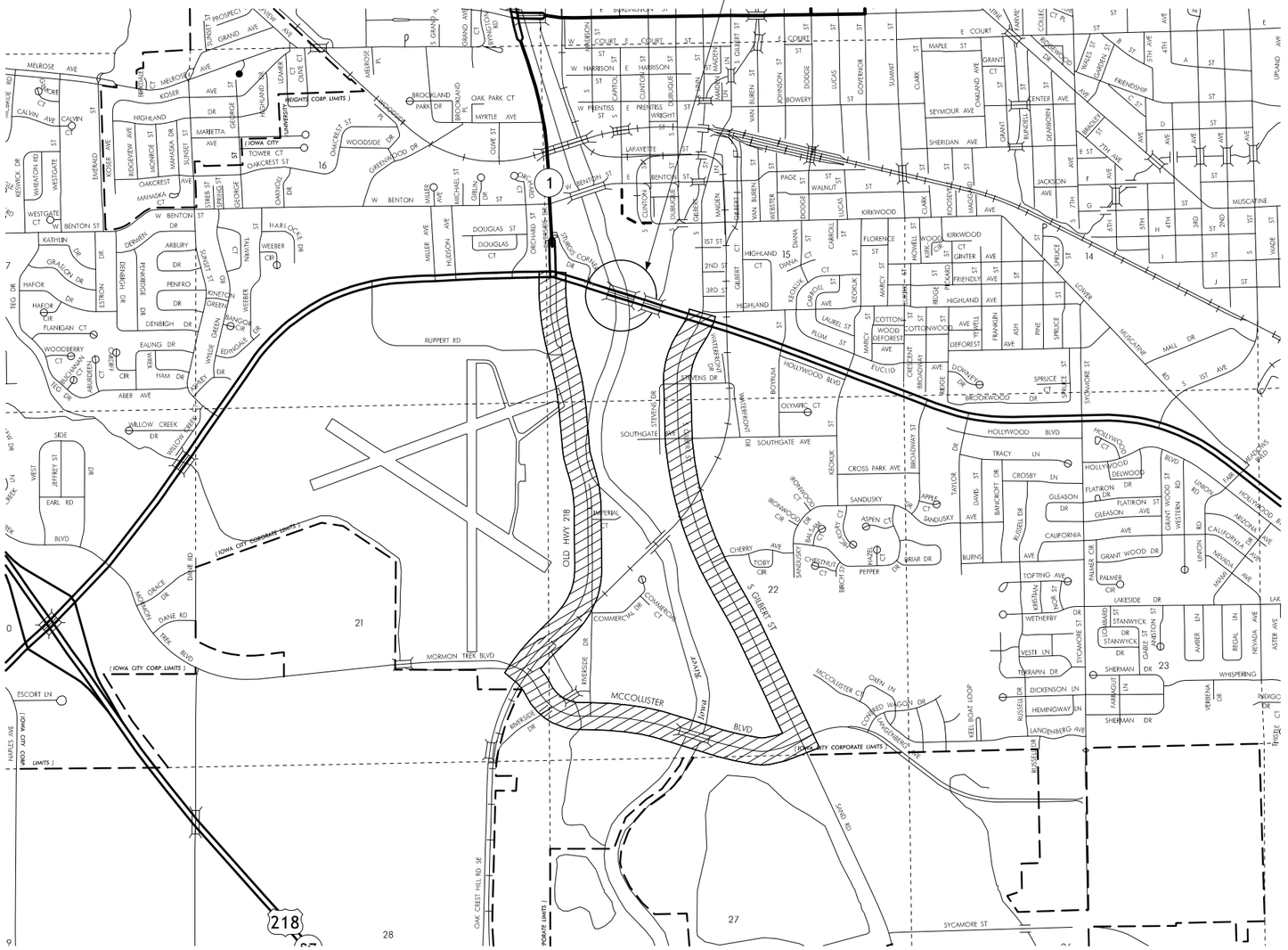
2. Access to properties adjacent to the construction site shall be maintained at all times.

3. Traffic Control shall be in accordance with Iowa DOT Standard Road Plans TC-1 and TC-252. For additional traffic control information, refer to Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) and the current Iowa DOT Standard Specifications.

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
	US 6	Both	Johnson	US 6 closed at the Iowa River	Iowa River	Bridge	5252.2S006						

PROJECT LOCATION



LEGEND

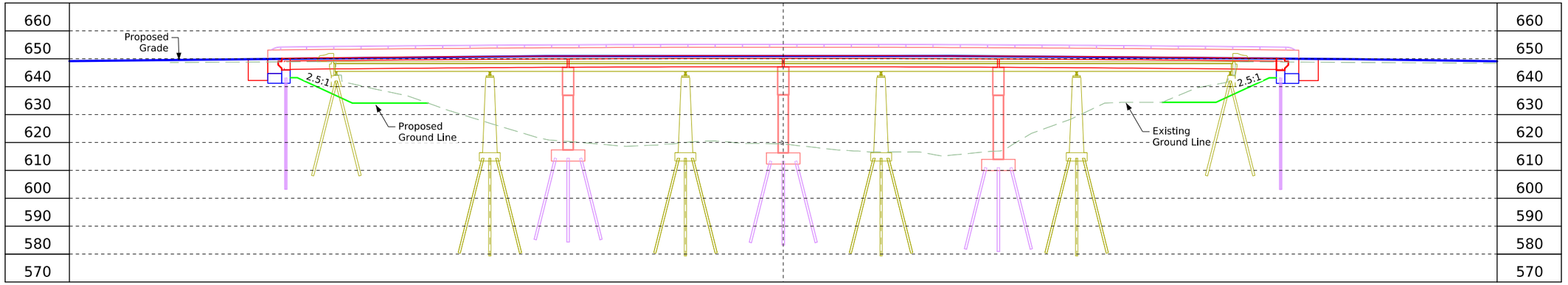
Proposed Detour Route

0 1000 FEET

US 6 DETOUR

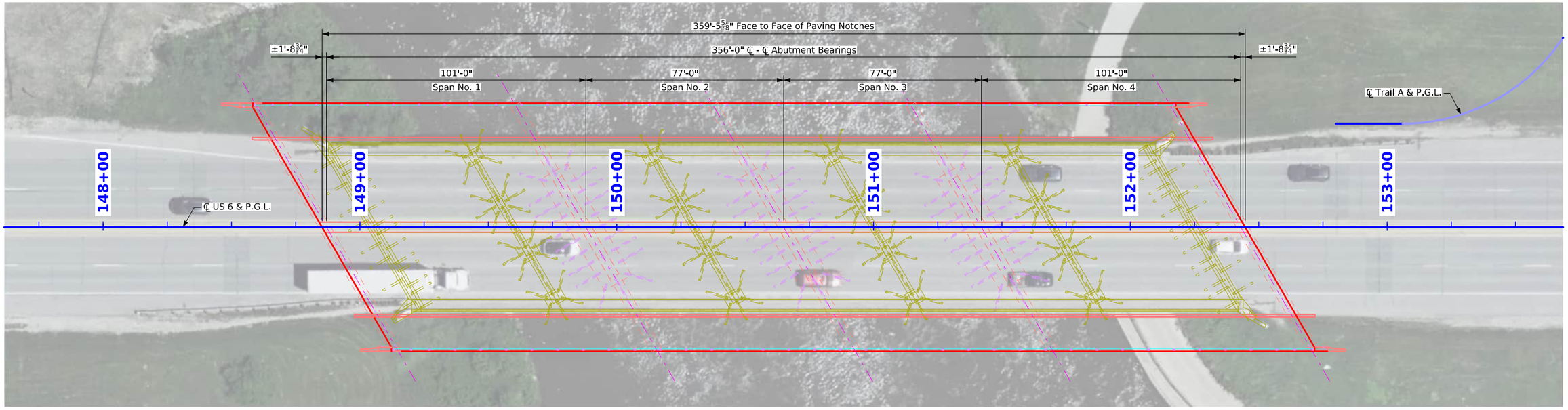
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER J.3

9:32:49 AM 10/22/2025 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_J01.dgn

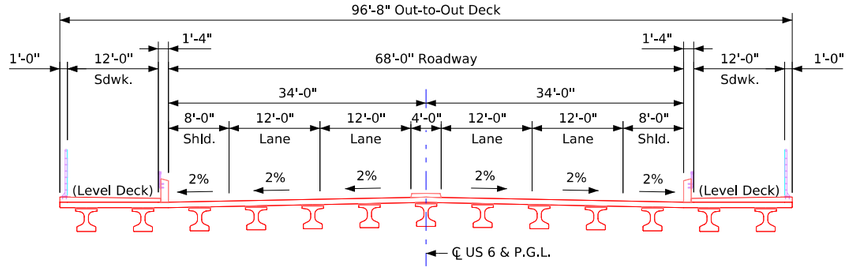


Note: Slopes are Normal to ℄ Abut./Grading Control Line.

Longitudinal Section Along ℄ US 6

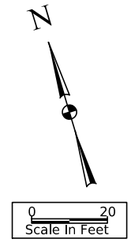


Situation Plan



Typical Bridge Section

(Looking East)



Location

US 6 Over Iowa River
In City of Iowa City
T-79N R-6W
Section 15
West Lucas & East Lucas Townships
Johnson County
FHWA No. 031571
Bridge Maint. No. 5252.2S006
Latitude 41.646659°
Longitude -91.537068°

Design For 30° Skew (RA)

356'-0" X 68'-0" Pretensioned Prestressed Conc. Beam Bridge

101'-0" End Spans — 77'-0" Interior Spans

Situation Plan

STA. 150+65.00 (US 6) — November 2025

Johnson County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 0227 — Design Sheet No. 1 of 1 — FHWA No. 031571

Progress Plans, Not For Construction

FILE NO. 32494	ENGLISH	DESIGN TEAM Jacobs	Johnson COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER V.1

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CROSS SECTION VIEW COLOR LEGEND

Design Color No.	Feature
Aggregate	
(64)	Choke Stone
(42)	Engineering Fabric
(8)	Flooded Backfill
(92)	Macadam Stone
(20)	Modified
(12)	Plowing Shaping
(14)	Porous Backfill
(8)	Revetment Class A
(6)	Revetment Class B
(62)	Revetment Class C
(188)	Revetment Class D
(28)	Revetment Class E
(12)	Shoulder Special Backfill
(12)	Special Backfill
(20)	Subbase
(20)	Subbase Lower
(20)	Subbase Upper
(118)	Subgrade Treatment
Asphalt	
(207)	HMA Base Course
(207)	HMA Interim Course
(207)	HMA Surface Course
Concrete	
(0)	Barrier Concrete
(0)	Barrier Concrete Footing
(0)	Curb Gutter
(48)	Flowable Mortar
(0)	Median Concrete
(0)	PCC Pavement
(0)	Sidewalk
Shoulder	
(209)	Shoulder HMA
(0)	Shoulder PCC
(6)	Shoulder Granular
Existing	
(0)	Existing Pavement

Design Color No.	Feature
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
Grading	
(8)	Behind Curb Cut
(6)	Granular
(13)	Granular Back Fill
(48)	Rock Undercut
(8)	Shoulder Earth Fill
(2)	Side Slopes
(226)	Side Slopes Dressing
Substrata	
(128)	Boulder Substrata
(48)	Broken Weathered Substrata
(3)	Core Out Substrata
(203)	Existing Pavement Substrata
(6)	Loam Substrata
(80)	Rock Substrata
(4)	Select Sand Substrata
(3)	Shale Substrata
(10)	Topsoil Substrata
Unsuitable / Waste	
(3)	Unsuitable Type A
(13)	Unsuitable Type B
(11)	Unsuitable Type C
(3)	Waste

NOTES:

Text

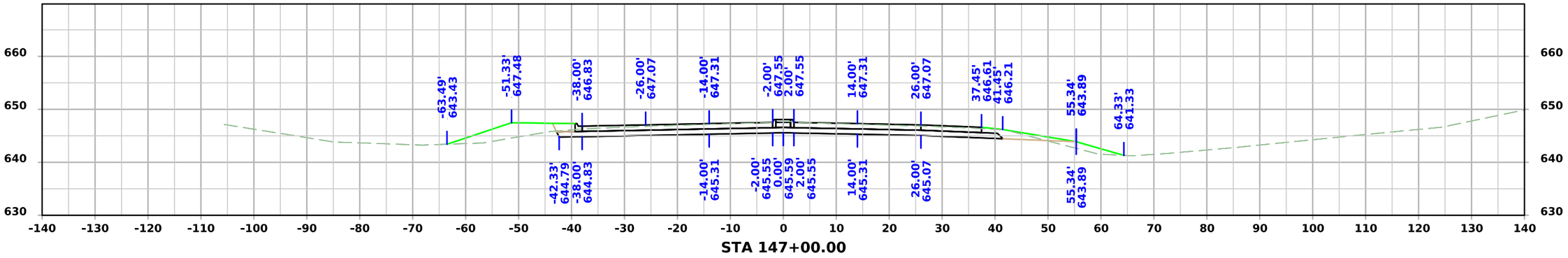
NOTES:

Text

CROSS SECTIONS
LEGEND AND INFORMATION SHEET

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

ML - US 6



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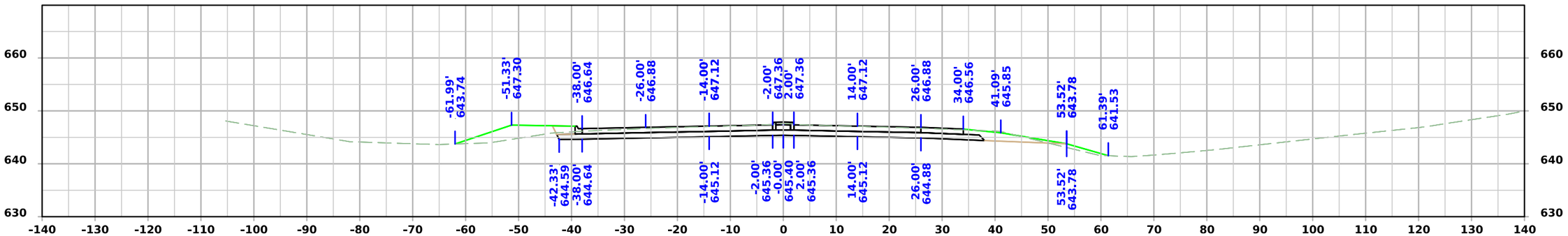

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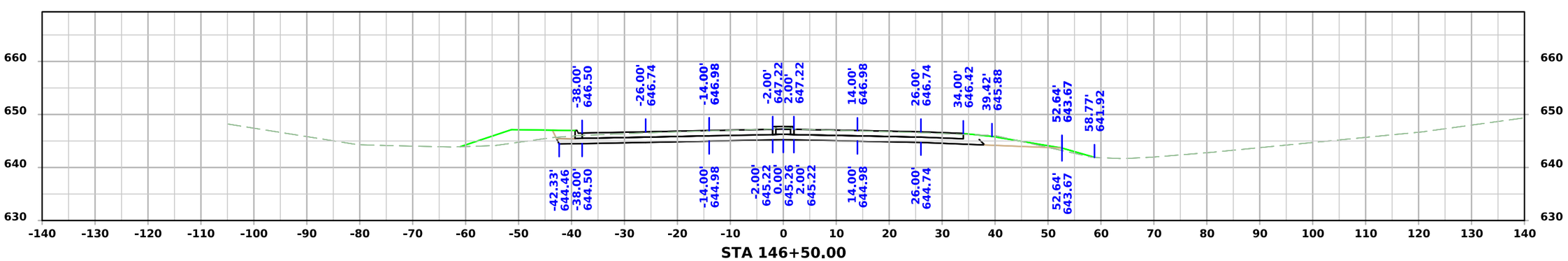

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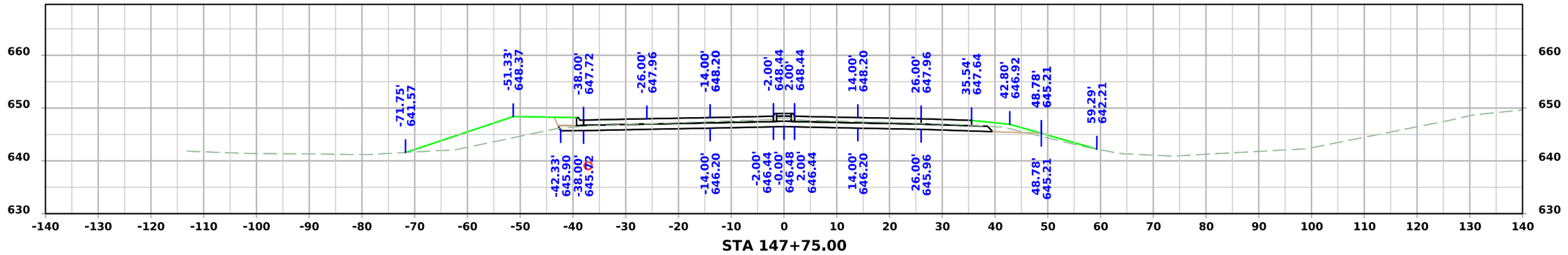
ML - US 6



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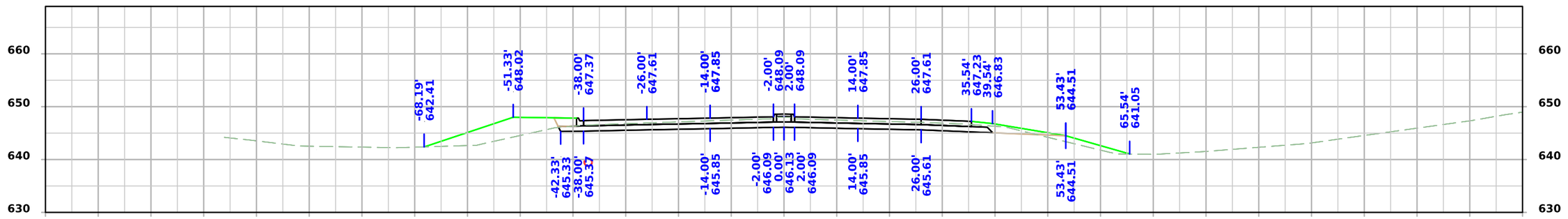

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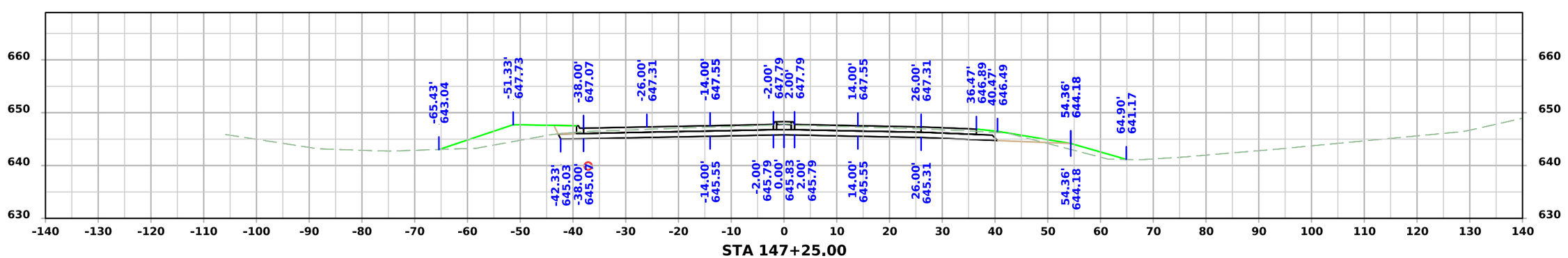

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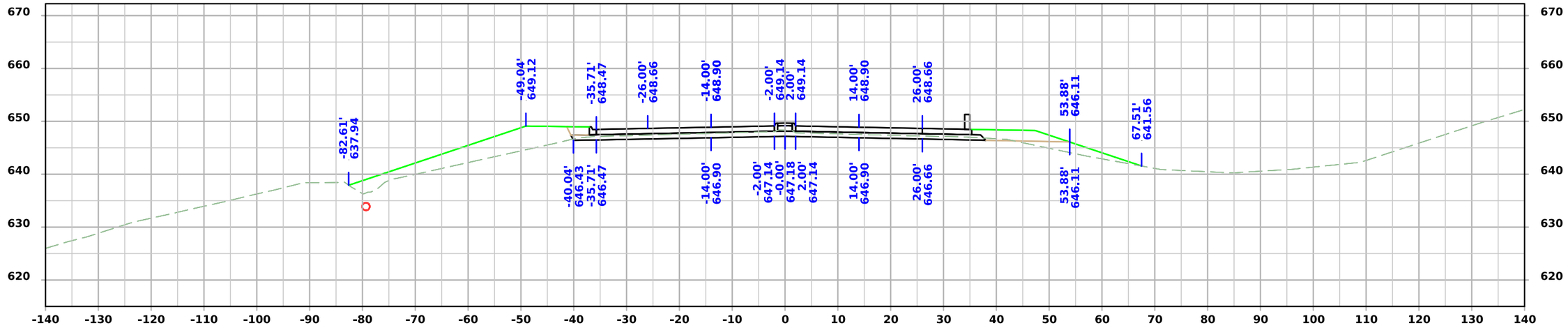
ML - US 6



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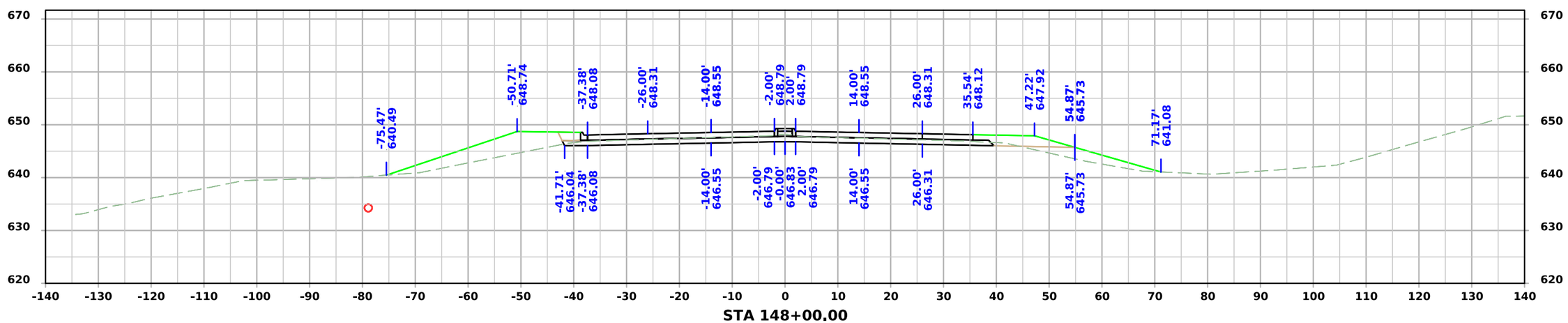

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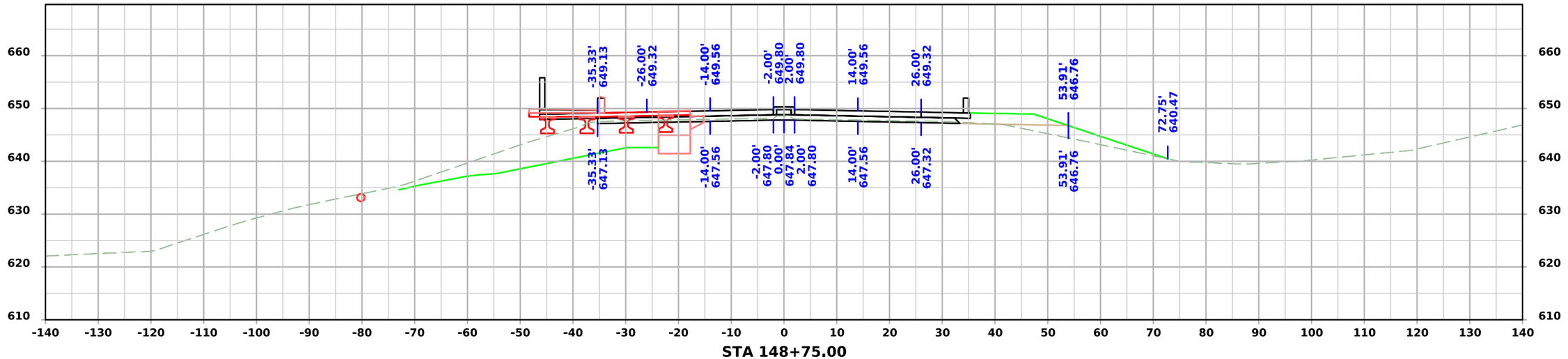
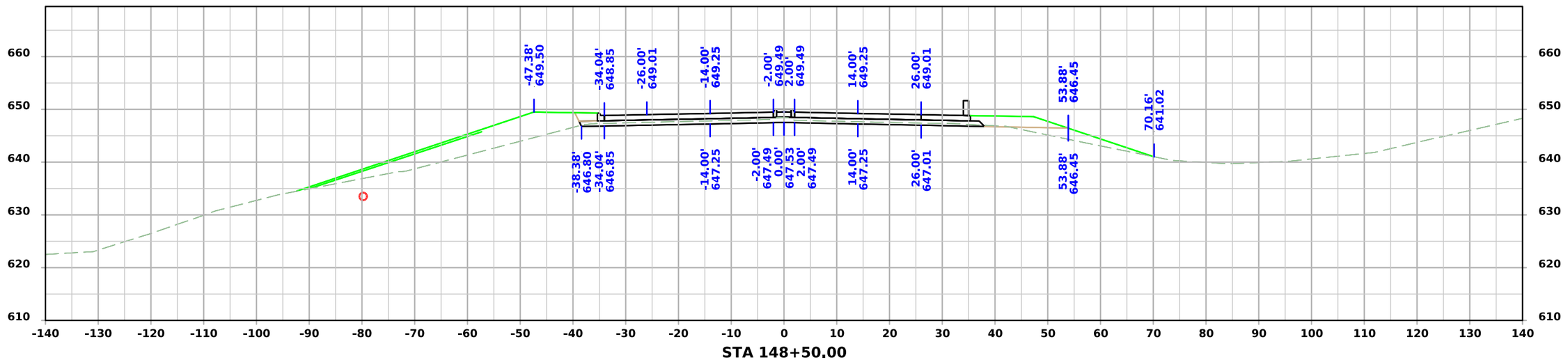
ML - US 6



STA 148+75.00



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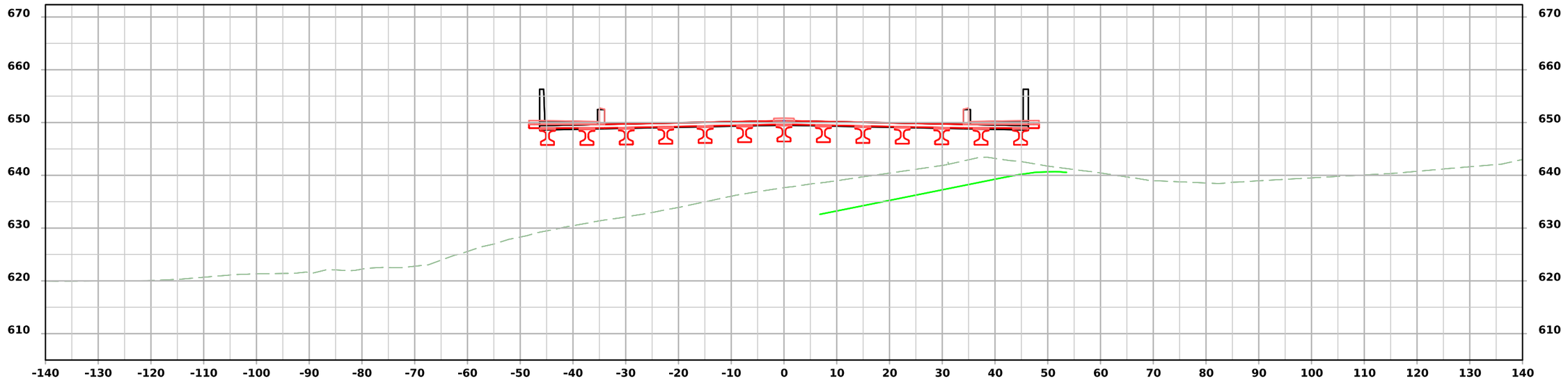
ML - US 6



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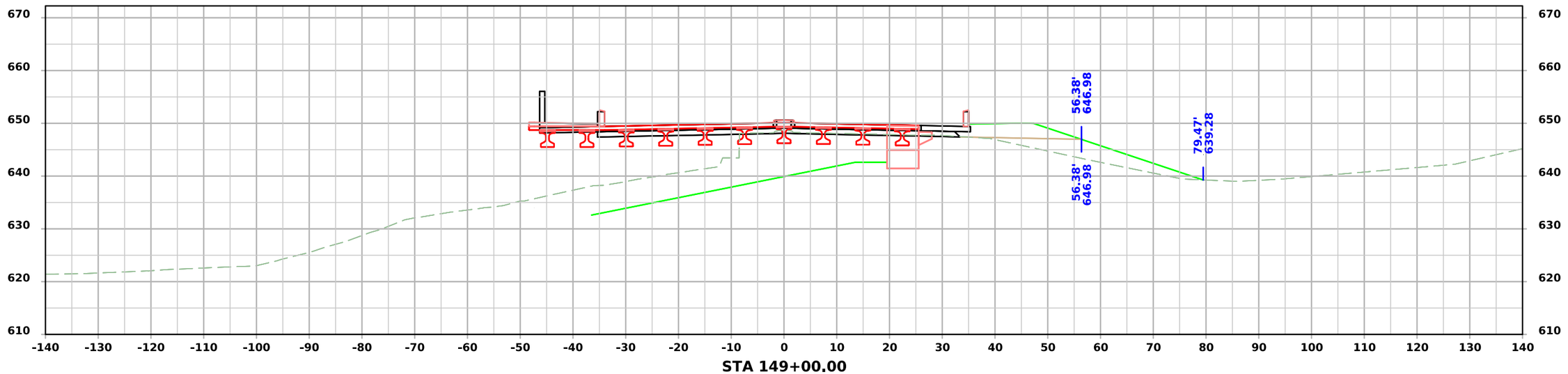

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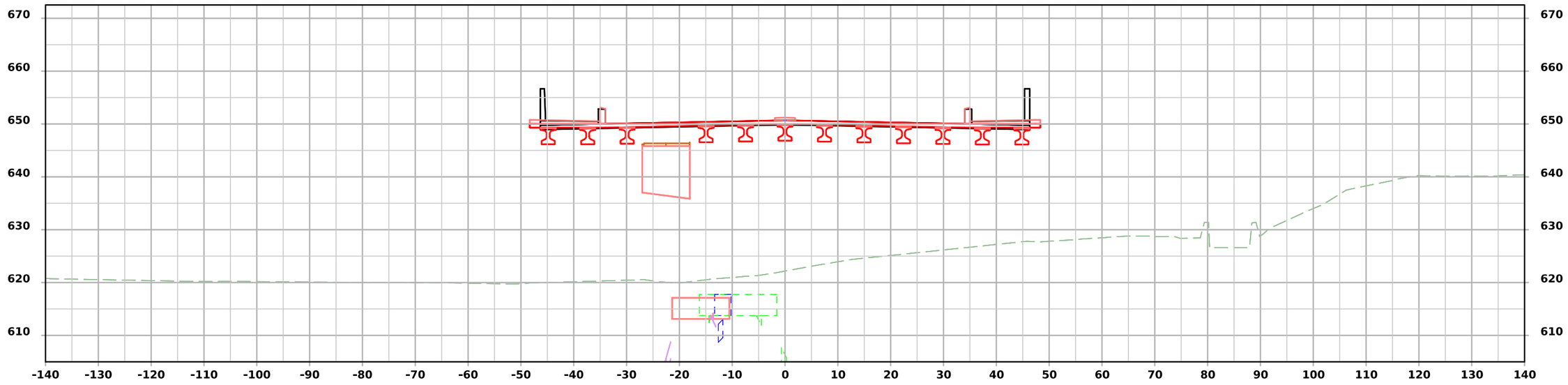
ML - US 6



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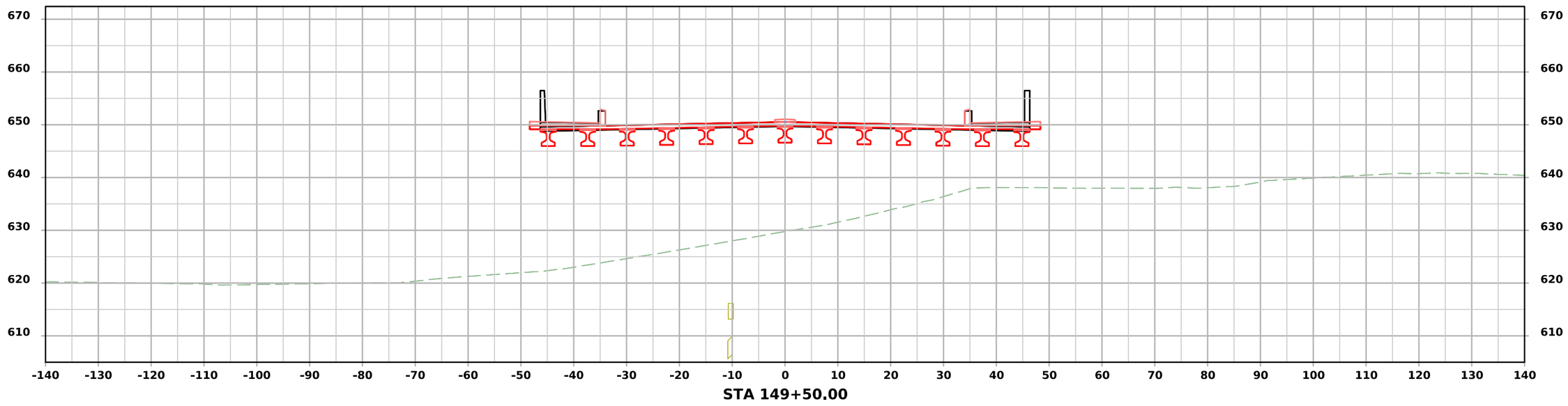

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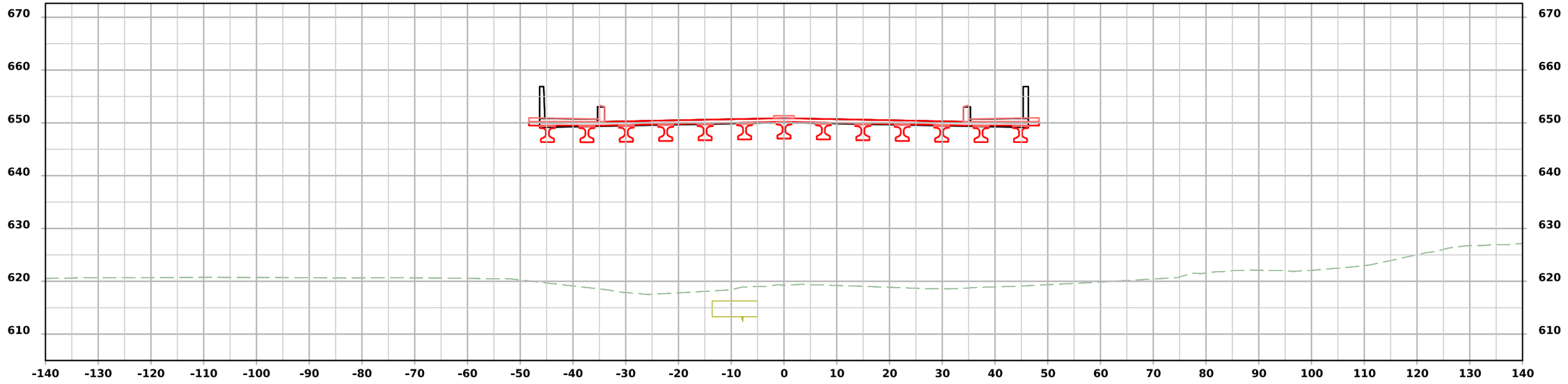
ML - US 6



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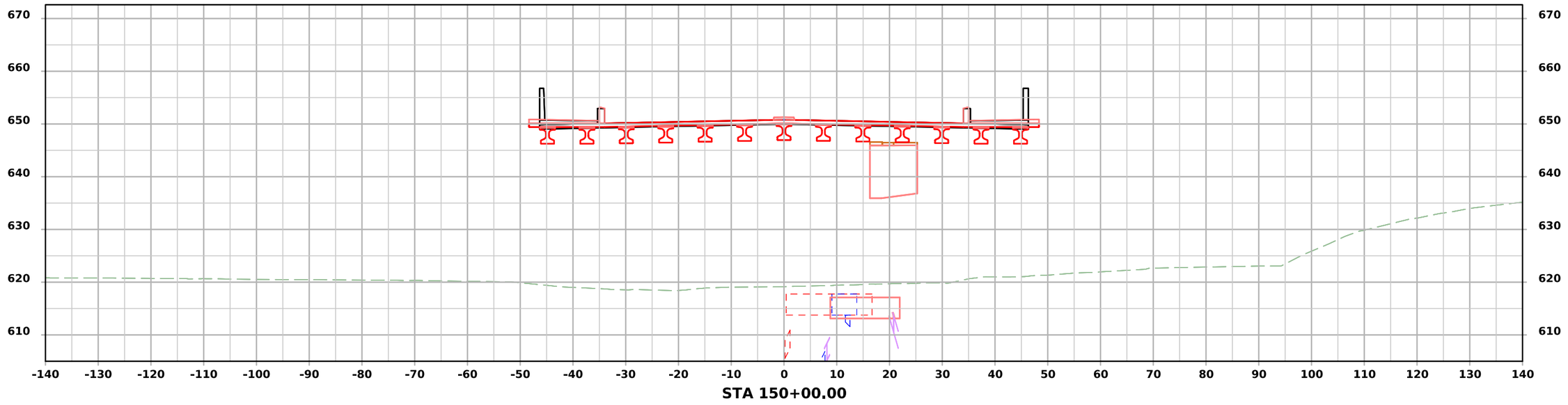

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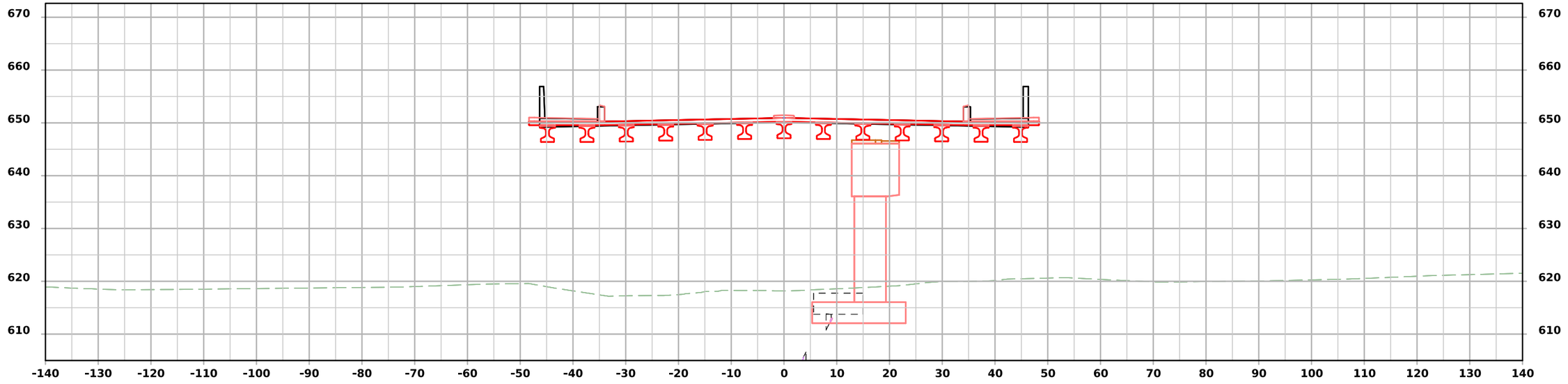
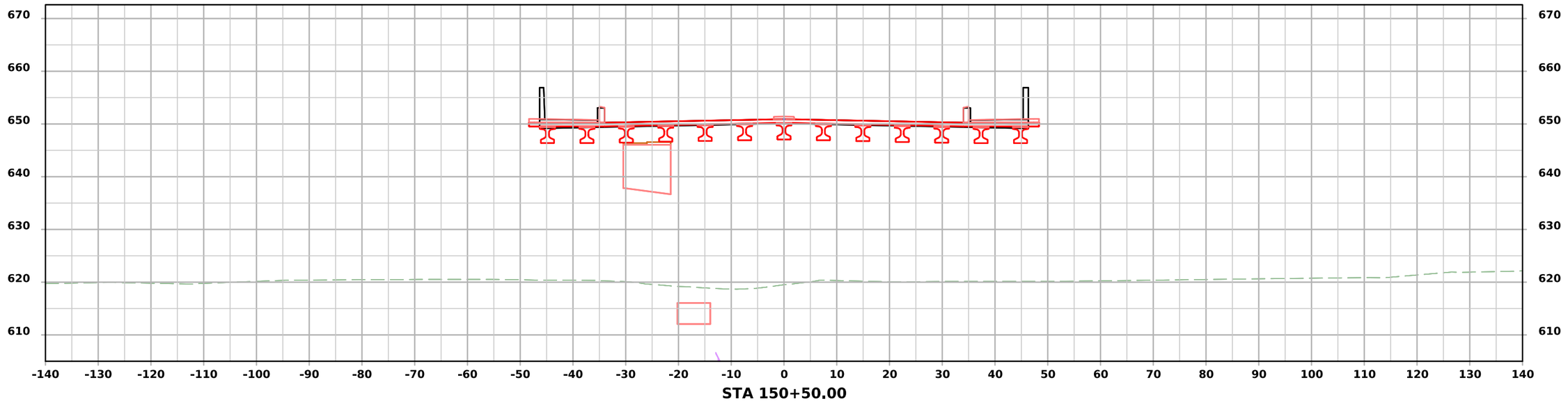


STA 150+75.00

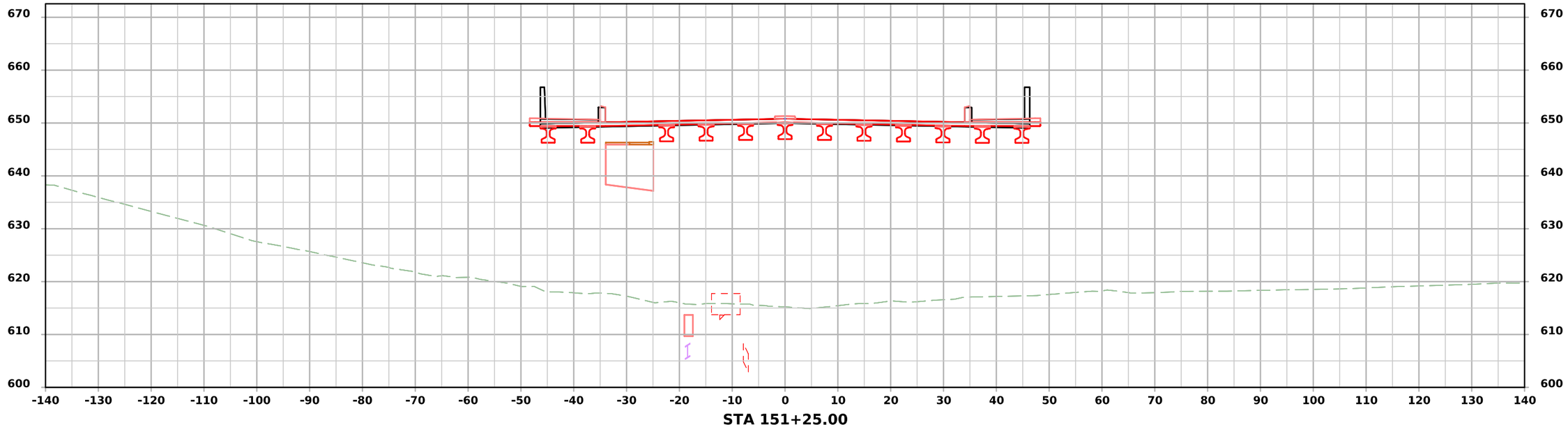


STA 150+50.00

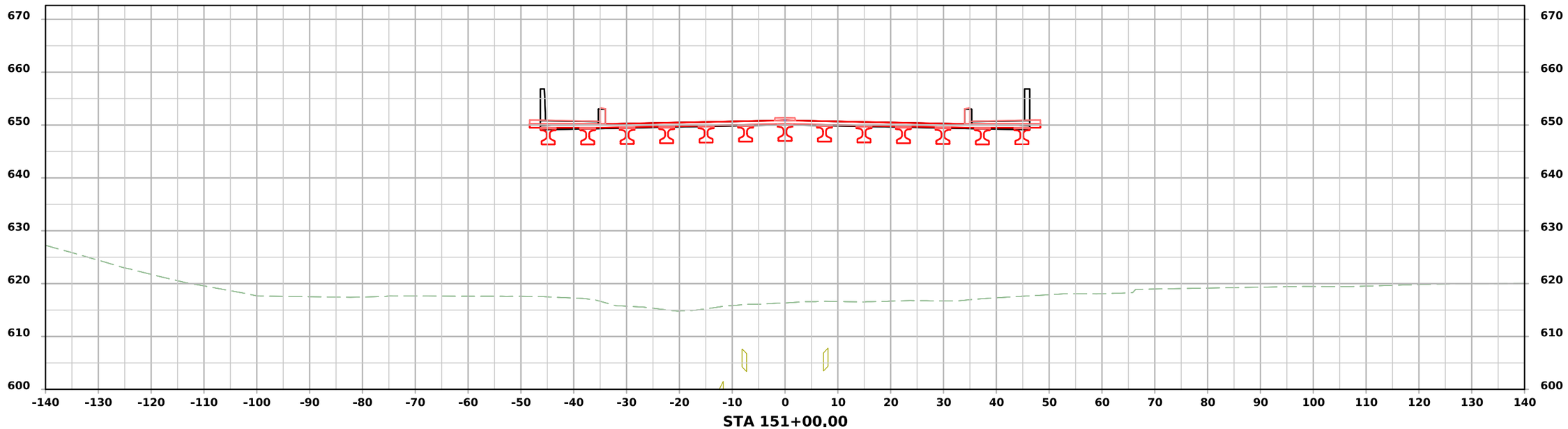
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.9

5:37:34 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn

ML - US 6



STA 151+25.00

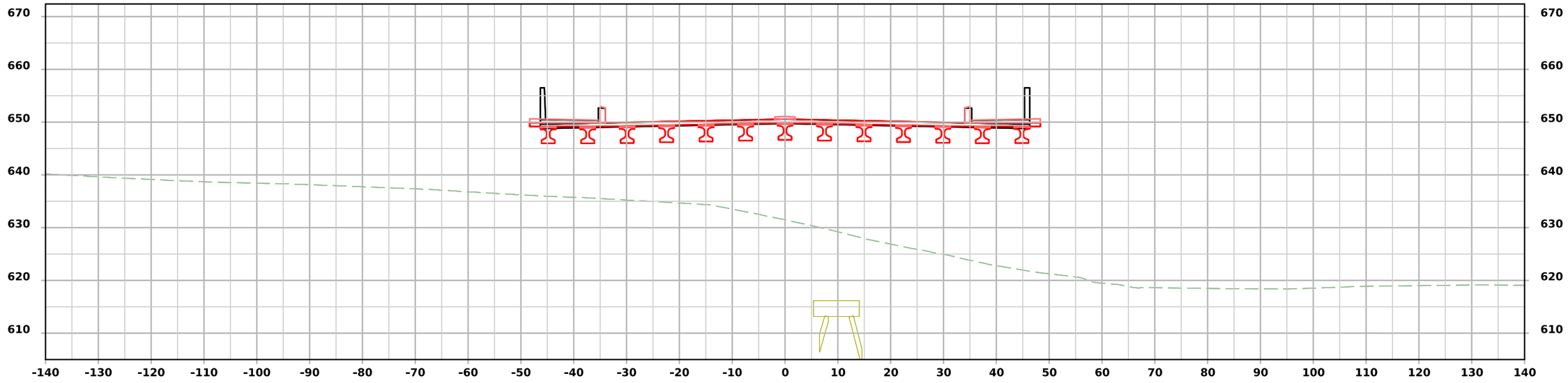


STA 151+00.00

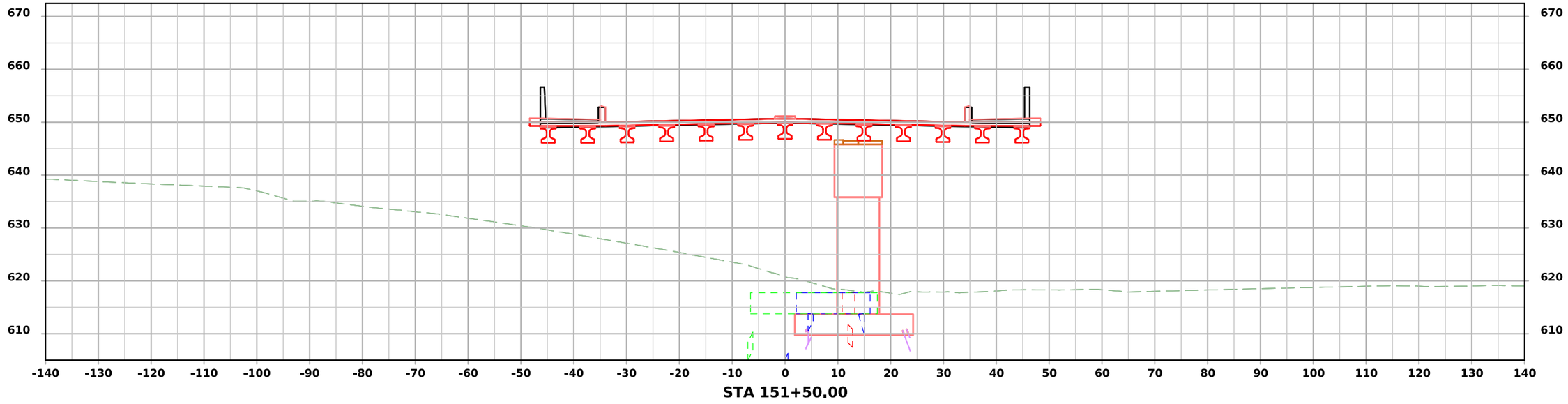
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.10

5:37:36 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn

ML - US 6



STA 151+75.00

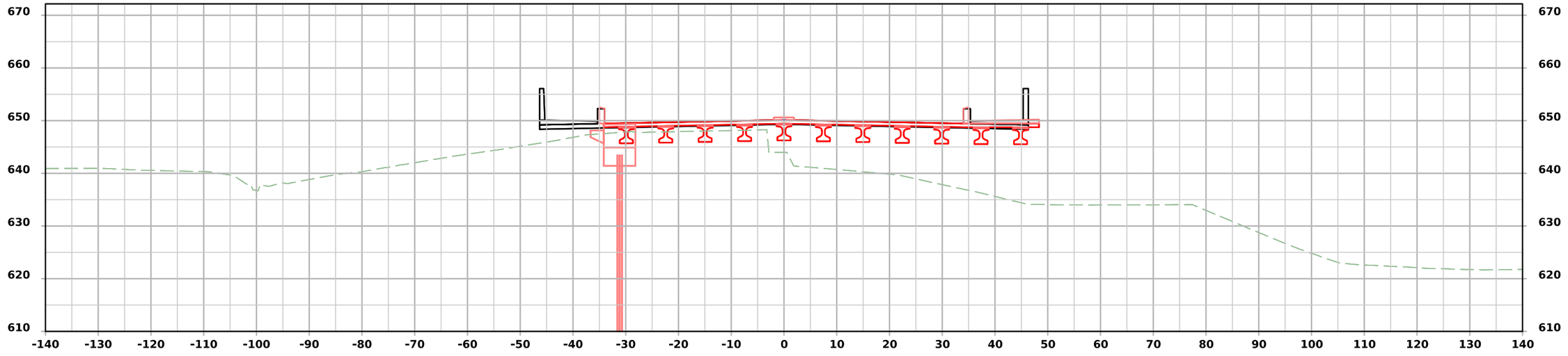


STA 151+50.00

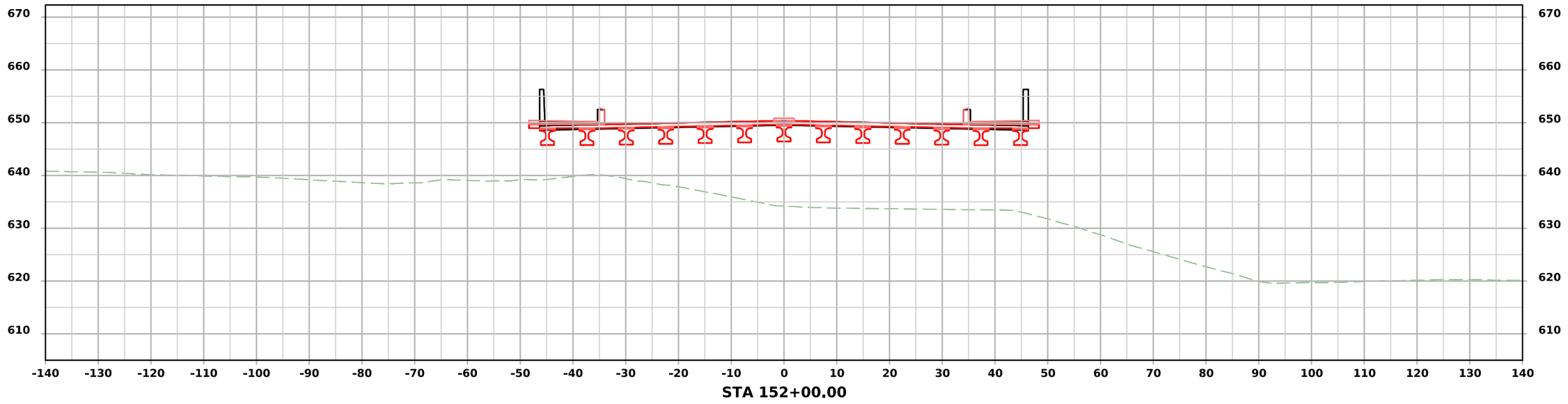
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.11

5:37:38 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn

ML - US 6



STA 152+25.00

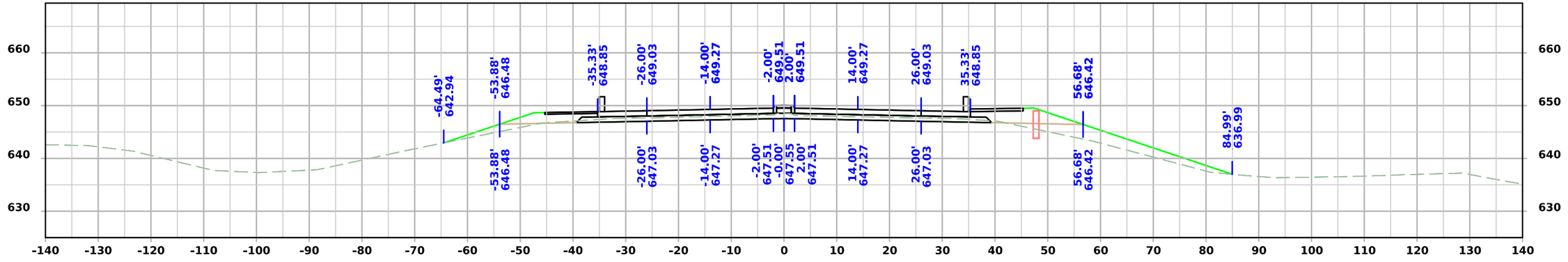


STA 152+00.00

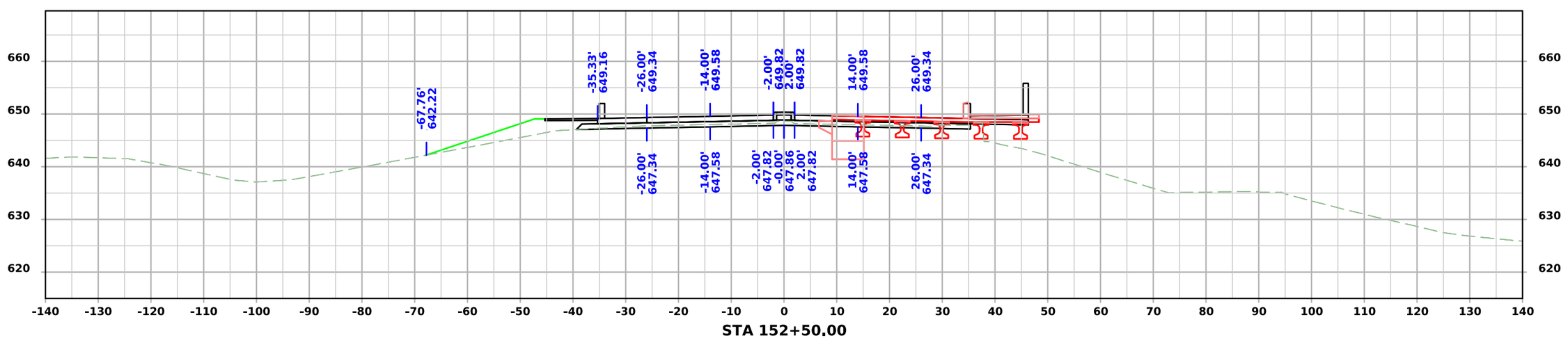
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.12

5:37:40 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn

ML - US 6



STA 152+75.00

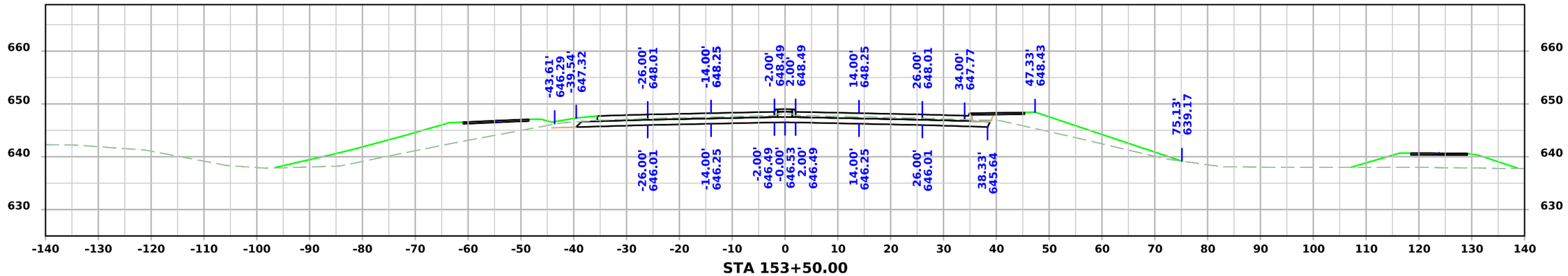


STA 152+50.00

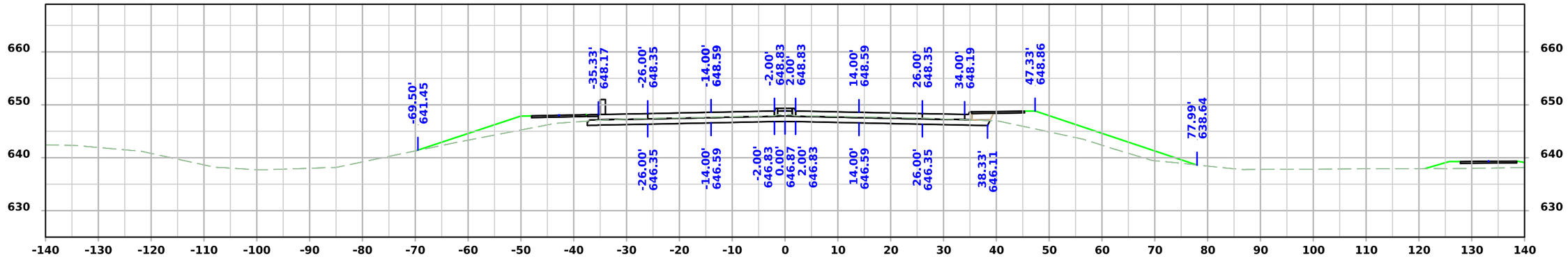
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.13

5:37:41 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn

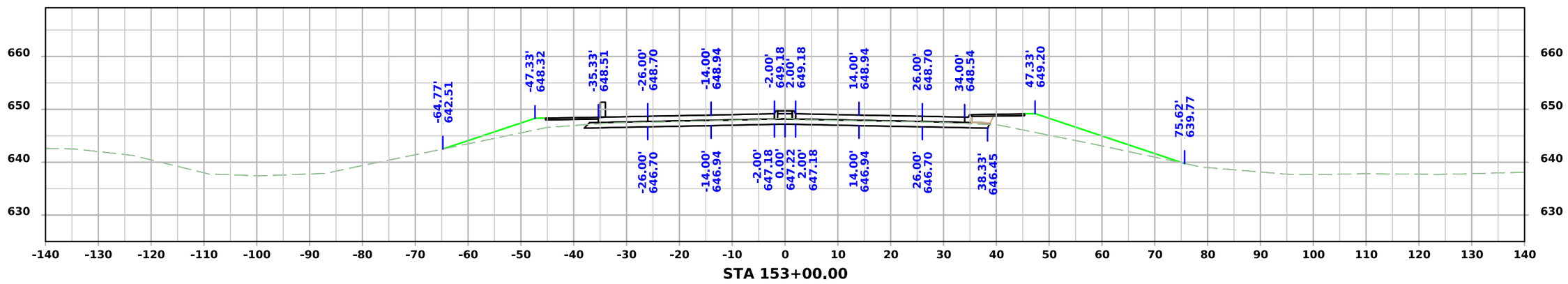
ML - US 6



STA 153+50.00



STA 153+25.00

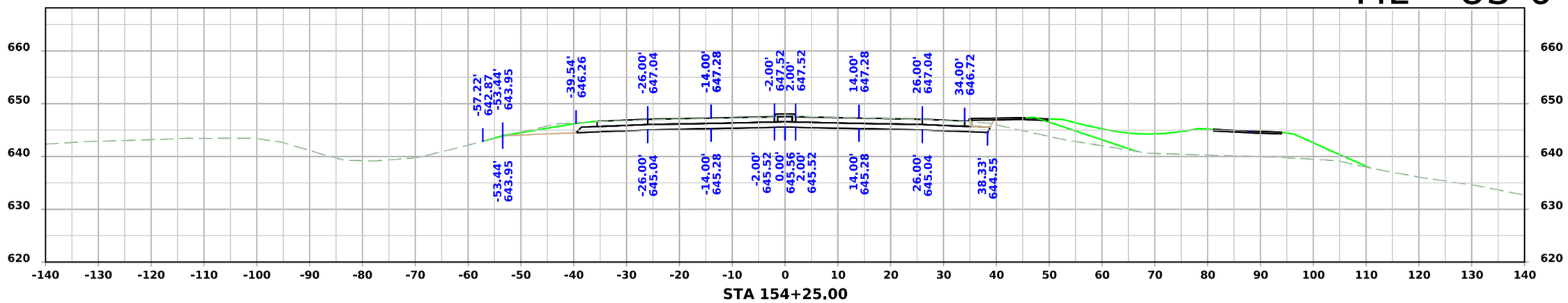


STA 153+00.00

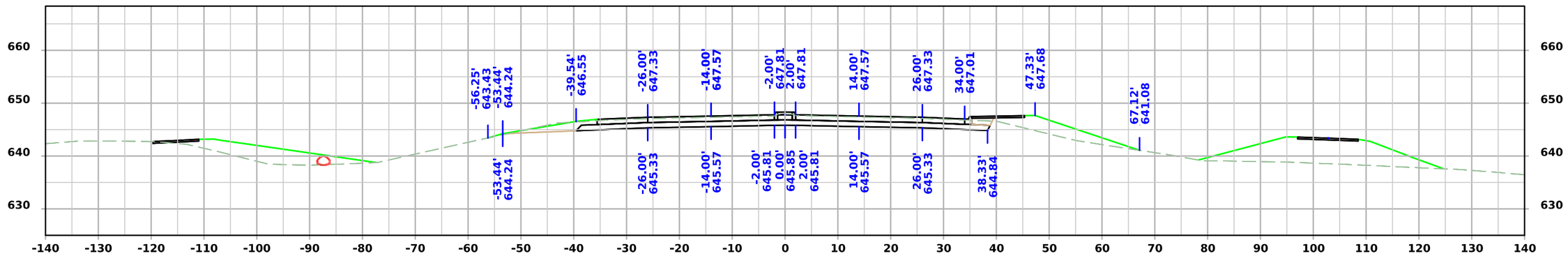
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.14

5:37:43 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn

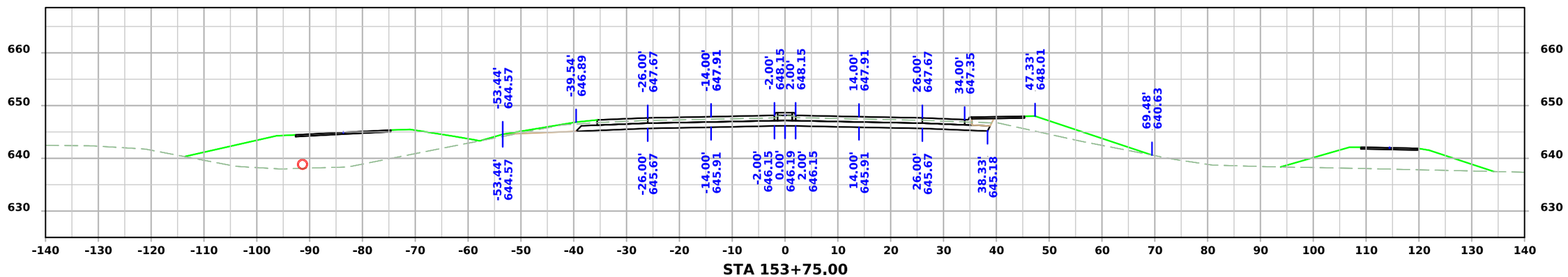
ML - US 6



STA 154+25.00



STA 154+00.00

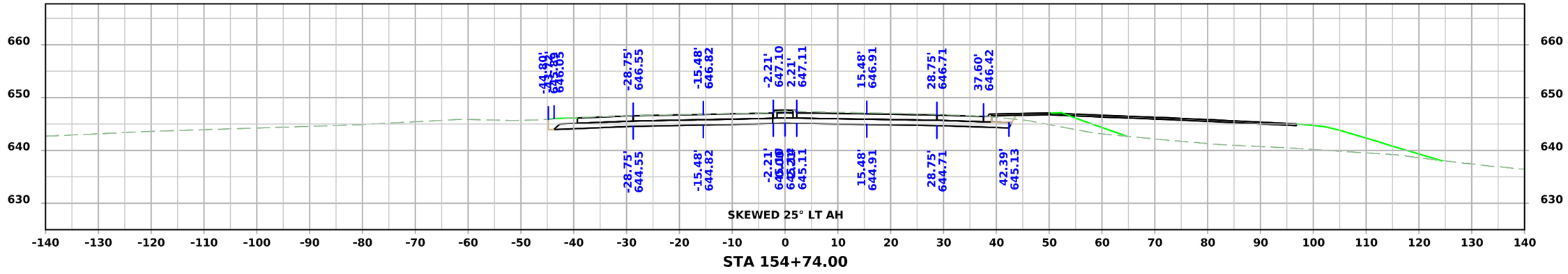


STA 153+75.00

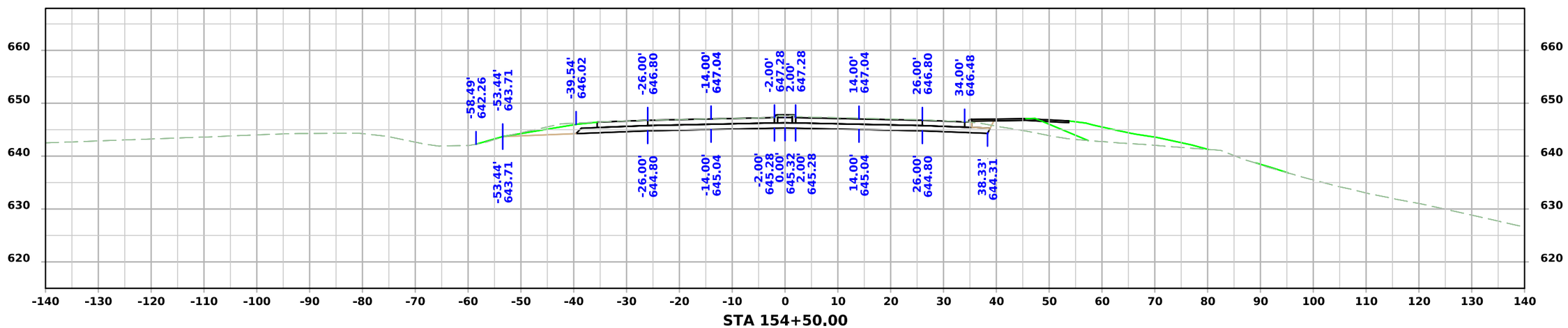
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.15

5:37:44 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn

ML - US 6



STA 154+74.00

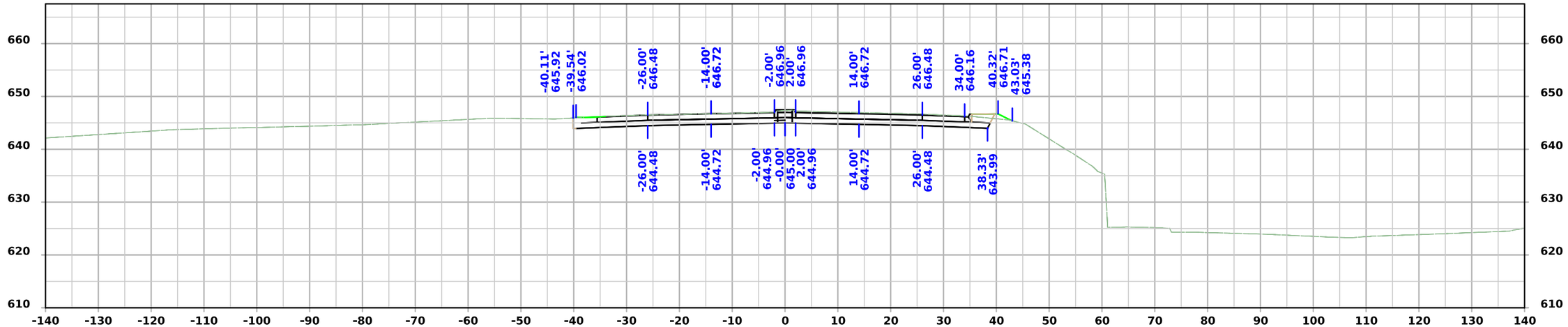


STA 154+50.00

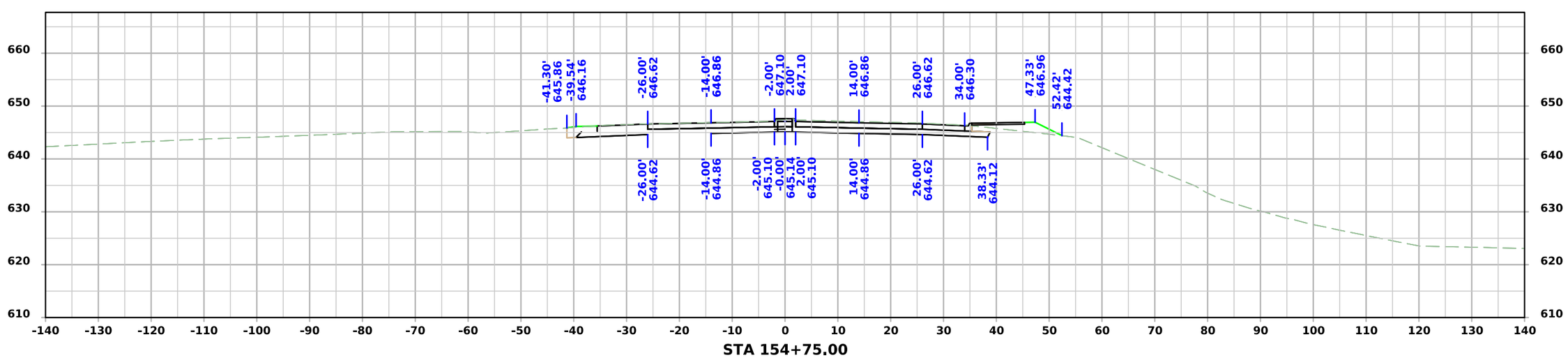
FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.16

5:37:45 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\52006010210\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn

ML - US 6



STA 155+00.00



STA 154+75.00

FILE NO. 32494	ENGLISH	DESIGN TEAM JACOBS	JOHNSON COUNTY	PROJECT NUMBER BRF-006-7(94)--38-52	SHEET NUMBER W.17

5:37:46 PM 4/7/2026 jroggatz pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\5200601021\Design_(94)_Bridge Replacement\CADD_Files\Sheet_Files\SHT_52006094Z10_W01.dgn