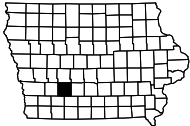


Webster COUNTY

Bridge Replacement
BRF-175-6(39)--38-94

LETTING DATE
Nov 16, 2027



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
Webster COUNTY
Bridge Replacement
Des Moines River 1.8 mi E of Co Rd P70

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 SHEETS	
No.	DESCRIPTION
A Sheets A.1	Title Sheets Title Sheet
B Sheets B.1 - 3	Typical Cross Sections and Details Typical Cross Sections and Details
D Sheets * D.1 * D.2	Mainline Plan and Profile Sheets Plan & Profile Legend & Symbol Information Sheet IA 175
G Sheets G.1 - 3	Survey Sheets Reference Ties and Bench Marks << H SHEETS
J Sheets * J.1 - 2	Traffic Control and Staging Sheets Traffic Control Plan
V Sheets V.1 - 3	Bridge and Culvert Situation Plans Bridge and Culvert Situation Plans
W Sheets W.1 W.2 - 24	Mainline Cross Sections Cross Sections Legend & Symbol Information Sheet Mainline Cross Sections * Color Plan Sheets

DESIGN DATA RURAL			
2026	AADT	705	V.P.D.
2046	AADT	841	V.P.D.
2046	DHV	87	V.P.H.
TRUCKS		16	%
Total Design ESALs		—	

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

D4 PLAN - July 20, 2027

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Mar 14, 2025

Paved Shoulder at Guardrail

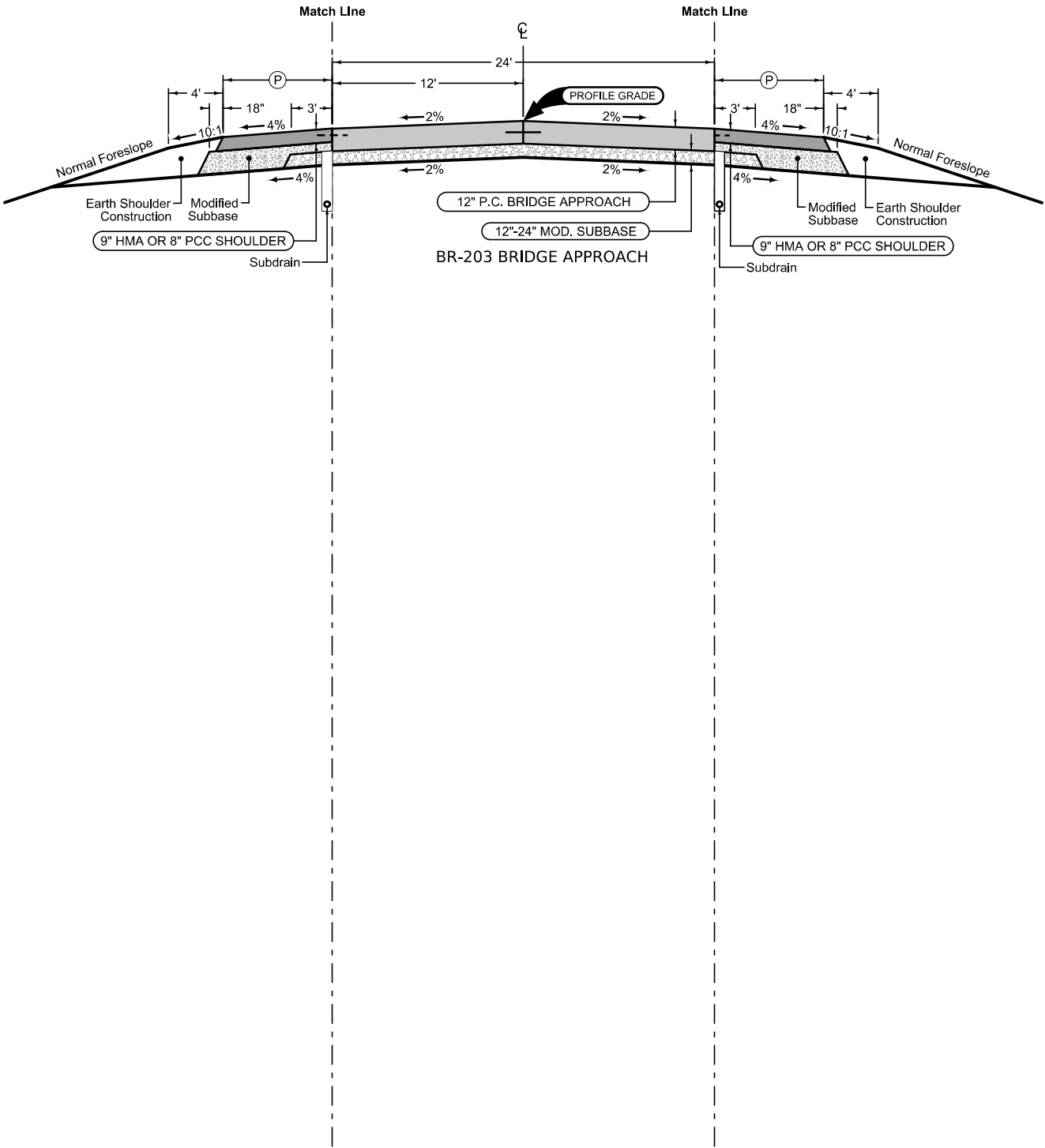
PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at mainline spacing
HMA Shoulder Jointing:
Longitudinal joint: B

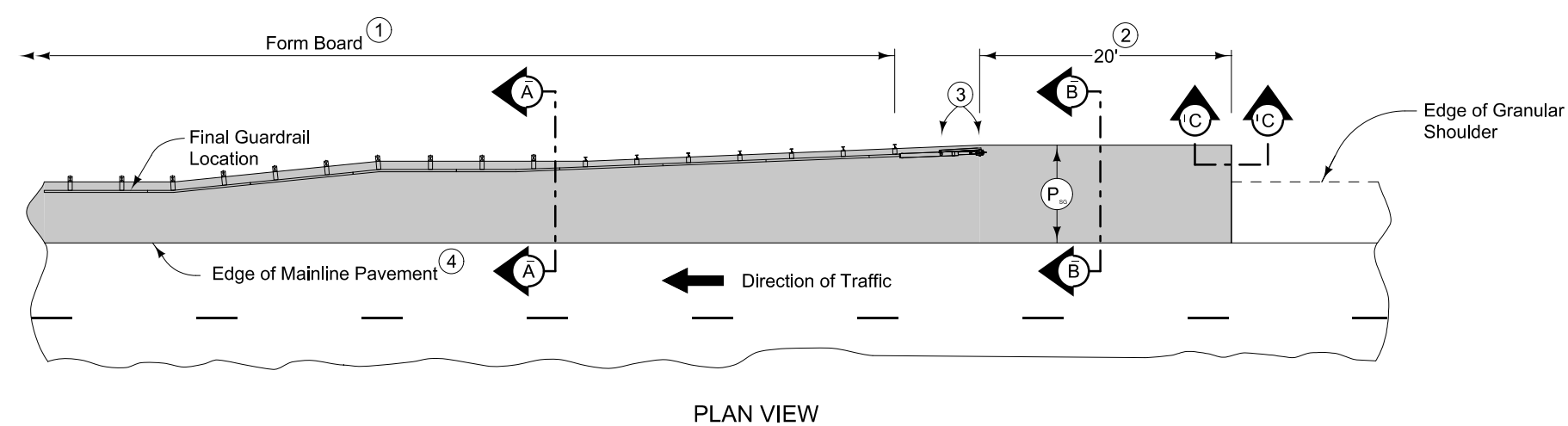
2_P_Guard_ 04-21-20		
STATION TO STATION		(P) Feet
235+80.46	237+04.50	VAR.
246+27.50	247+14.03	VAR.
247+14.03	248+55.00	6

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_ 04-21-20		
STATION TO STATION		(P) Feet
235+80.46	237+04.50	VAR.
246+20.52	246+89.08	VAR.
246+89.08	248+55.00	6





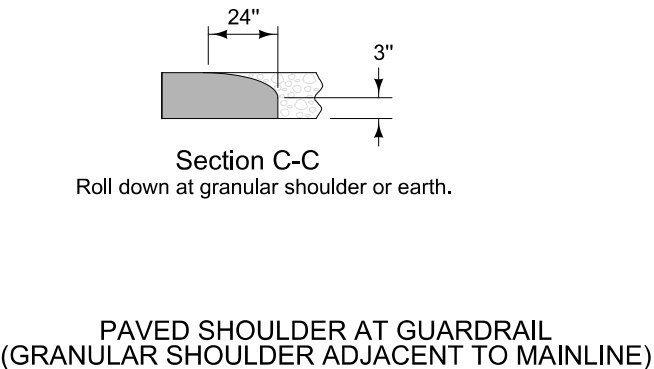
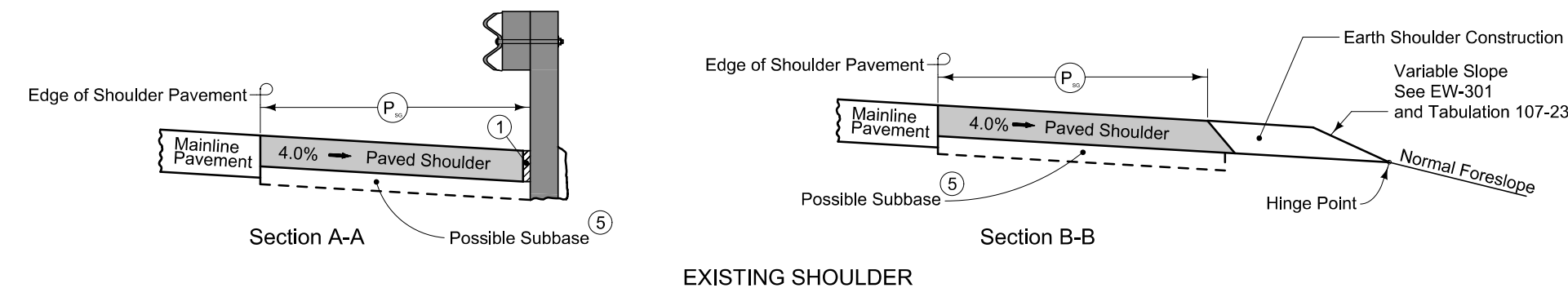
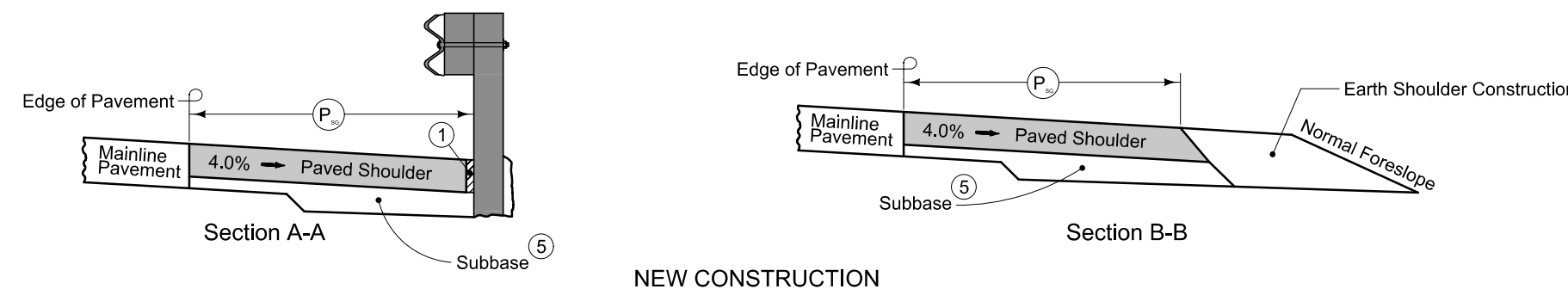
9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the following jointing layout:

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 'KT' joint (per PV-101) for PCC shoulder. 'B' joint (per PV-101) for HMA shoulder.
- ⑤ Refer to other details in the plan.



	Interstate Highway Symbol		Septic Tank
	U.S. Highway Symbol		Cistern
	Iowa Highway Symbol		L.P. Gas Tank (No Footing)
	County Road Highway Symbol		Underground Storage Tank
	Evergreen Tree		Latrine
	Deciduous Tree		Satellite TV Dish
	Fruit Tree		Water Hook Up
	Shrub (Bushes)		Radio Tower
	Timber		Tower Anchor
	Hedge		Guardrail (Beam or Cable)
	Stump		Guard Post (one or two)
	Swamp		Guard Post (over two)
	Rock Outcrop		Filler Pipe
	Broken Concrete		Gas Valve
	Revetment (Rip Rap)		Water Valve
	Cemetery		Speed Limit Sign
	Grave		Mile Marker Post
	Cave		SIGN Sign
	Sink Hole		Traffic Signal Control Box
	Board Fence		Rail Road Signal Control Box
	Chain Link or Security Fence		Telephone Switch Box
	Wire Fence		Electric Box
	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)		

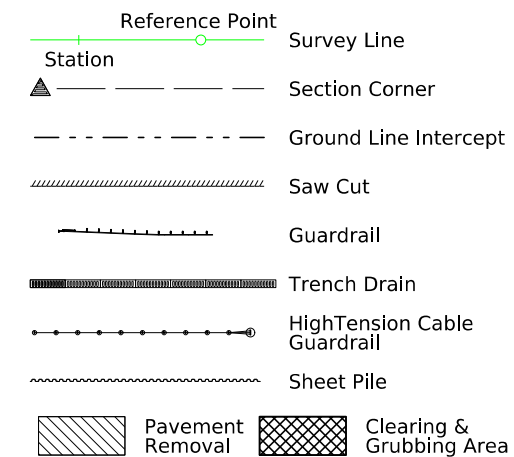
Sub-Surface Utility Mapping Quality Level is in accordance with CI/ASCE 38-02 Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

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



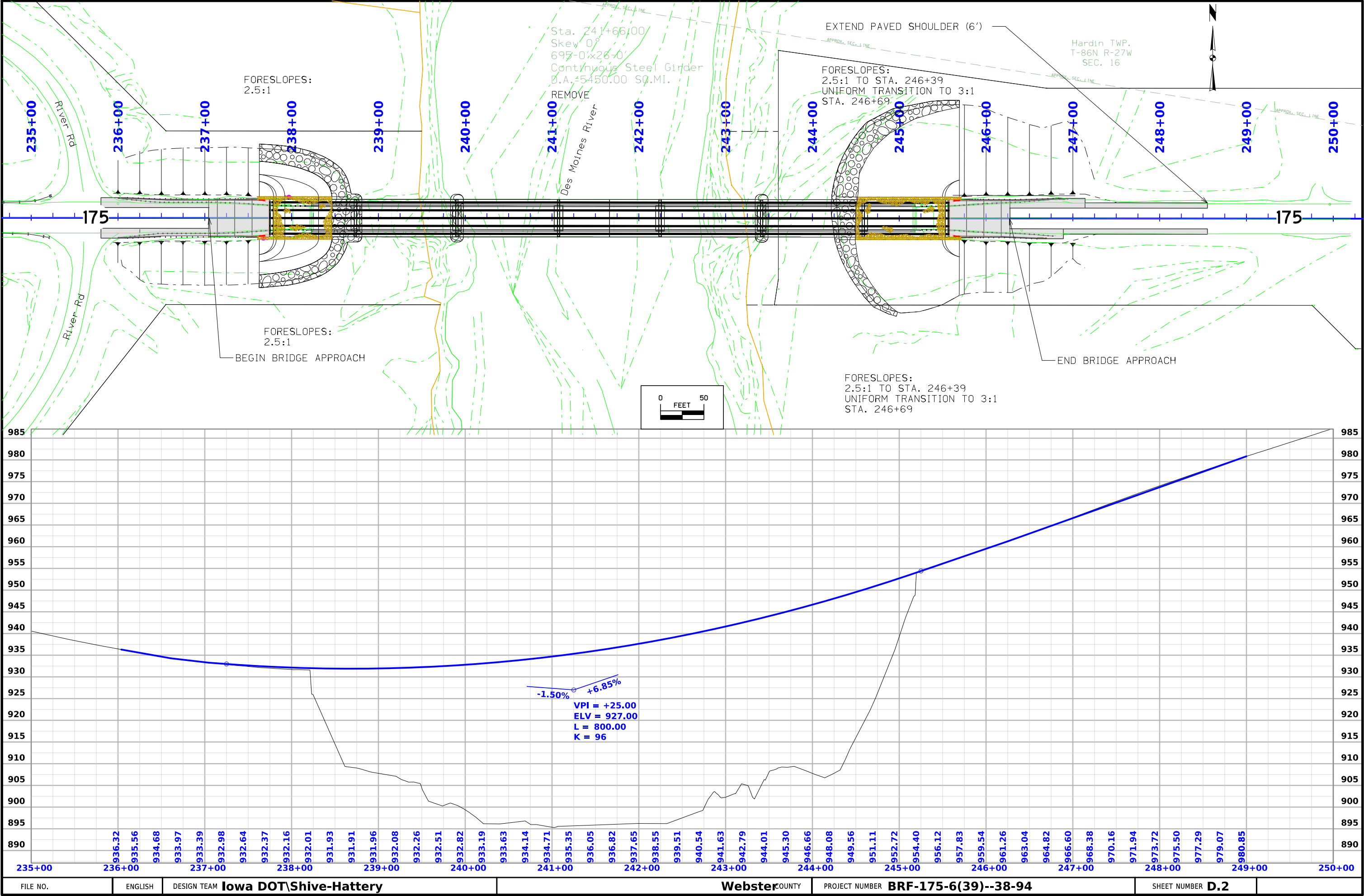
LINEWORK		Design Color No.
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities
SHADING		Design Color No.
Lavender	(9)	Temporary Pavement Shading
Yellow	(4)	Proposed Pavement Shading
Orange	(6)	Proposed 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

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



- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- Access Control
- Property Line

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



Survey Information

SURVEY INDEX

County: Webster
PIN: 20-94-175-020
Project Number: BRF-175-6(39)—38-94
Location: Des Moines River 1.8 mi E of Co Rd P70
Type of Work: Topographic Survey
Project Directory: 9417502020

Survey Personnel

Murray Berting – PLS
Gavin Gear – Land Survey Technician

Date(s) of Survey

Begin Date 08/18/2022
End Date 03/31/2023

General Information

Measurement units for this survey are US survey feet. This survey is for proposed bridge reconstruction and reconstruction of State Highway 175, over the Des Moines River. Project datum and control information is provided by Shive-Hattery Inc. This project is a Preliminary Survey. This survey request was for the bridge over the Des Moines River, State Highway 175 corridor and the Des Moines River.

Project Control

Nearby Iowa Real Time Network reference stations were utilized to obtain horizontal and vertical control on primary project control points. (3) three-minute observations were taken with a minimum two-hour time span between and used in a weighted average to obtain final coordinate values. 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 04
(U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2012bu2

Alignment Information

The horizontal alignment for U.S. State Hwy 175 this survey is a retrace of As-built Plans No. FN-175-6(3)-21-94. Survey stationing was equated to the plan PC at Sta. 253+85.30 and run back and ahead without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PC Sta. 253+85.30 As-built Plans Project No. FN-175-6(3)-21-94
Survey PC Sta. 253+85.30

PT Sta. 260+90.30 As-built Plans Project No. FN-175-6(3)-21-94
Survey PT Sta. 260+90.24

POT Sta. 272+32.10 As-built Plans Project No. FN-175-6(3)-21-94
Survey POT Sta. 272+34.40

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 - Geoid Model: 2012bu2
1a. Regional Coordinate System Zone 04
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

Geoid Model: 2012bu2

1a. Regional Coordinate System Zone 04

Project Control Marks are Bench Marks

POINT NAME	NORTHING	EASTING	ELEVATION	FEATURE DEFINITION - DESCRIPTION
601	8498936.462	14729682.84	1106.476667	CP 1/2" IR CONC MON
602	8498930.965	14729770.81	1107.798667	CP 1/2" IR CONC MON
603	8498860.875	14727851.33	1014.767667	CP 1/2" IR CONC MON
604	8496851.254	14722797.82	1119.713	CP 1/2" IR CONC MON
605	8496820.115	14722764.89	1119.181	CP 1/2" IR CONC MON

NOTE:

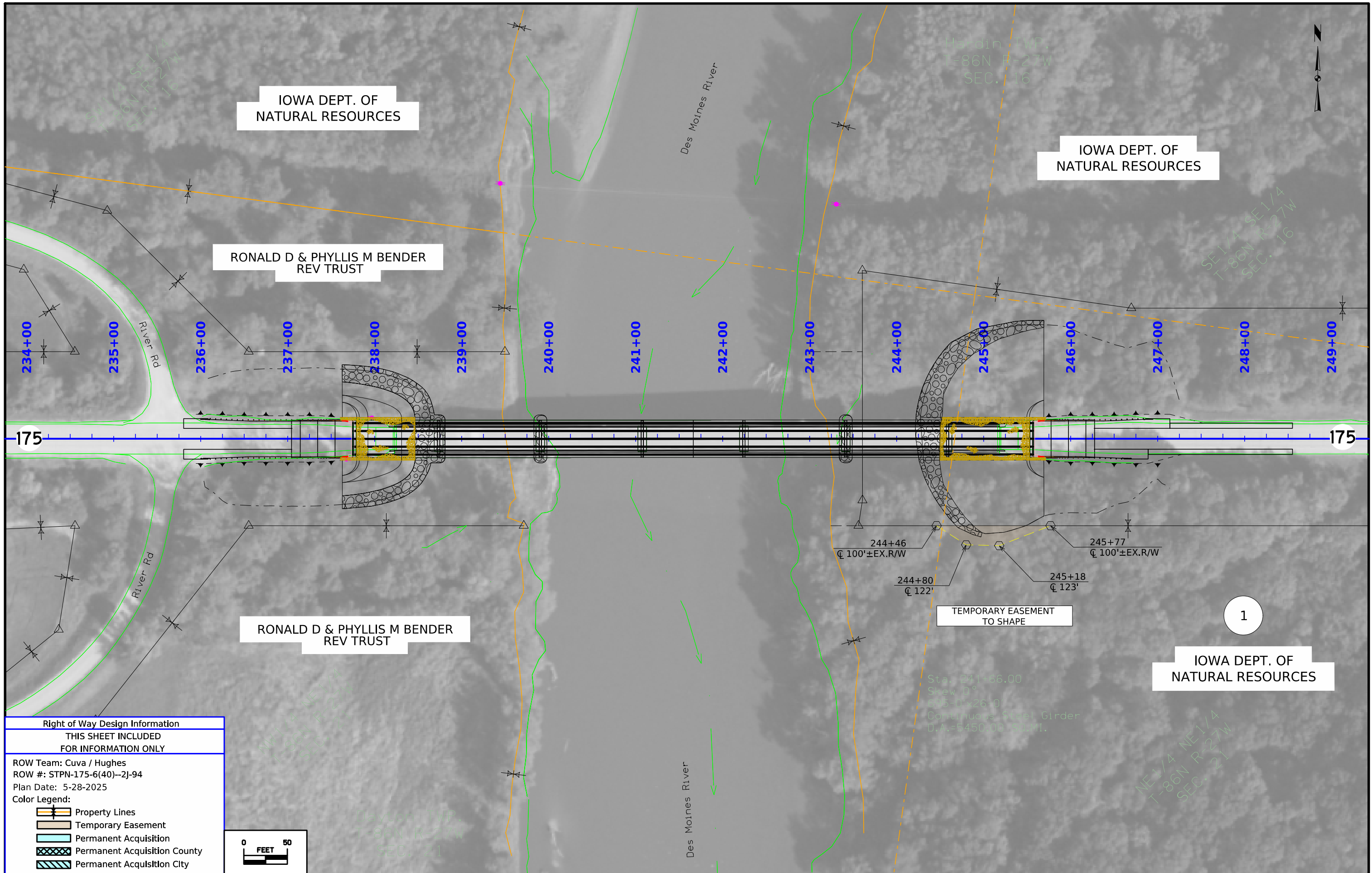
The first two digits in the control point name refer to the county number.

The next 3 digits refer to the highway number.

The next 3 digits refer to the highway milepost.

The last digit refers to the distance from the referenced milepost to the nearest tenth of a mile.

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.



108-23A
08-01-08

TRAFFIC CONTROL PLAN

1) While bridge and approaches are being removed and replaced, IA 175 traffic shall be maintained using an off-site detour.

2) Signage and devices shall be furnished, installed, maintained, and removed by Contractor.

												108-25 10-21-14
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 175	Both	WEBSTER	Bridge over Stream	Des Moines River	Bridge		None		12			

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.

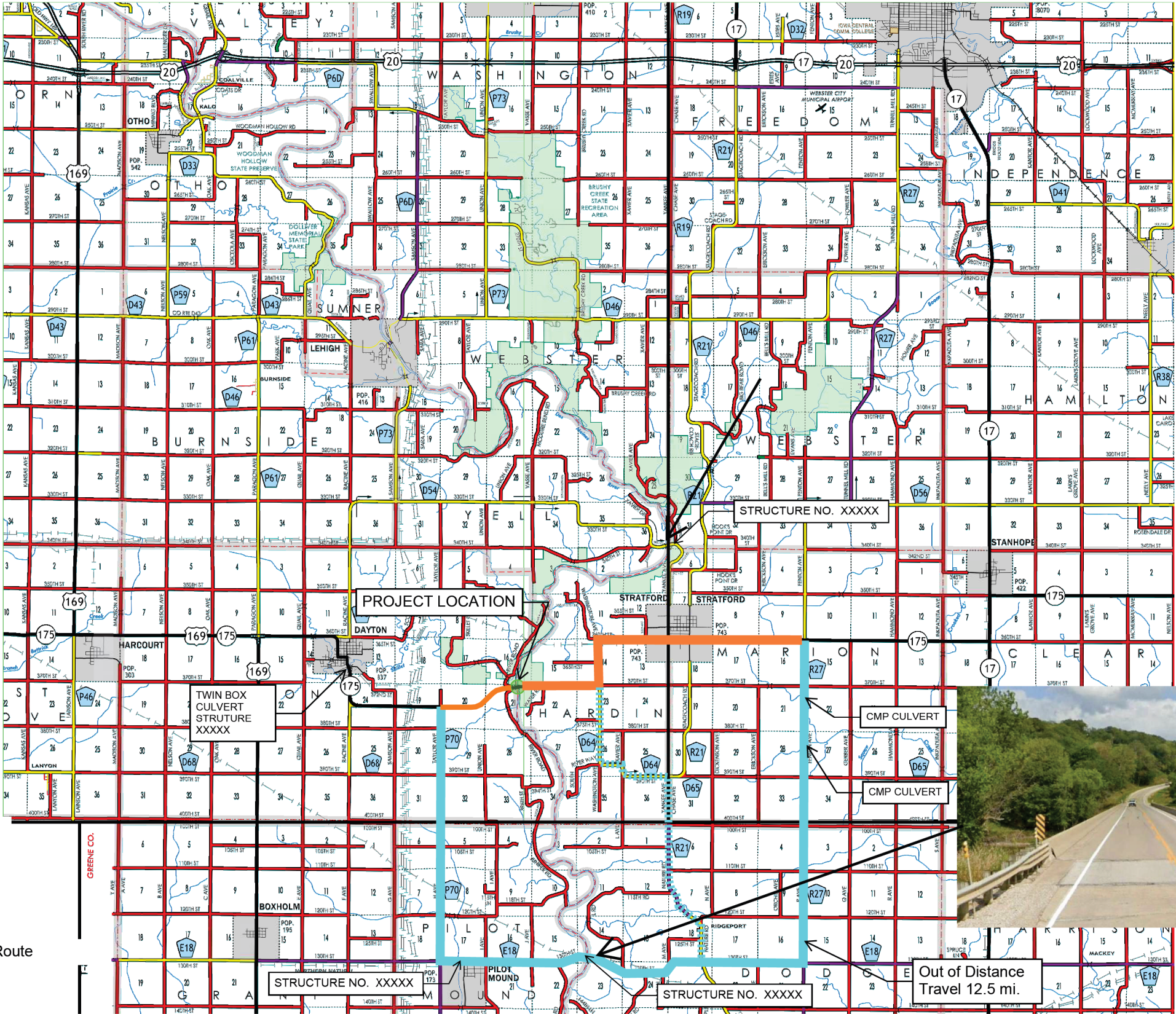
Project	Type of Work
None Provided	

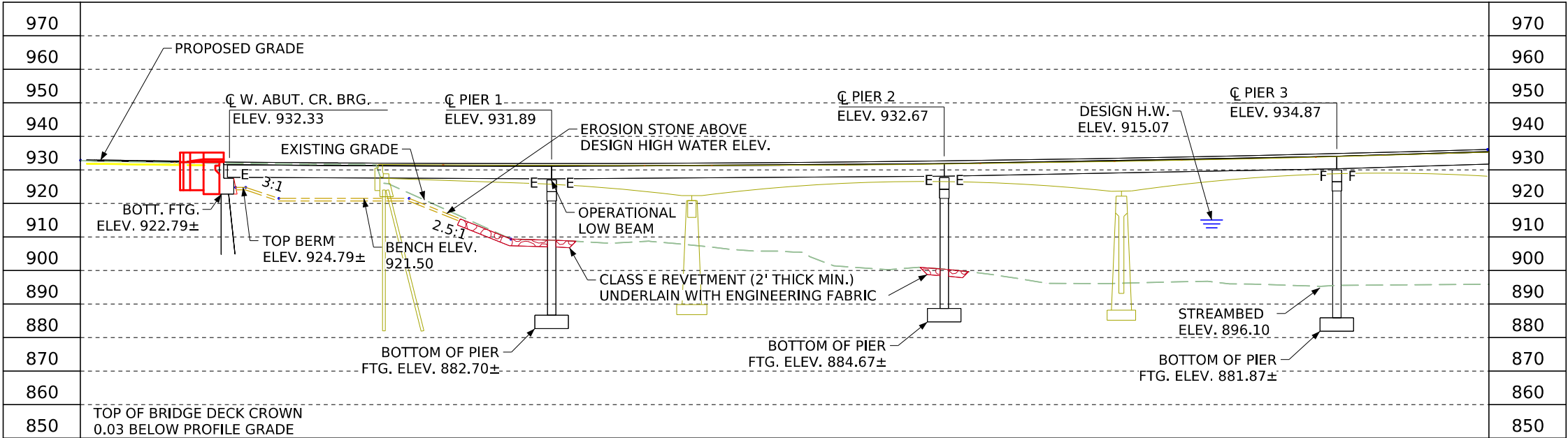
IA 175 TO
Co Rd P70
Co Rd E18
Co Rd R27
TO IA 175



WEBSTER COUNTY
HAMILTON COUNTY

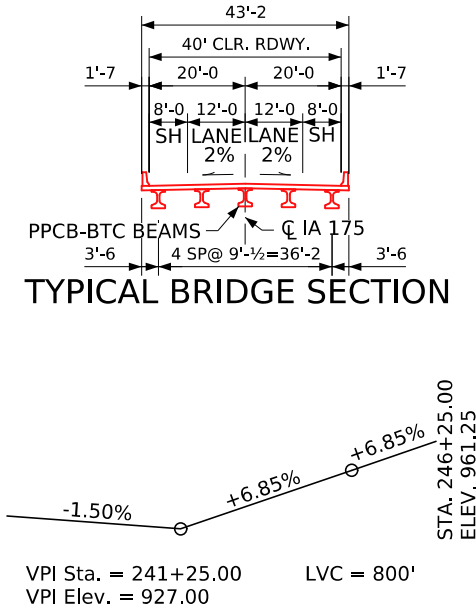
Detour Route





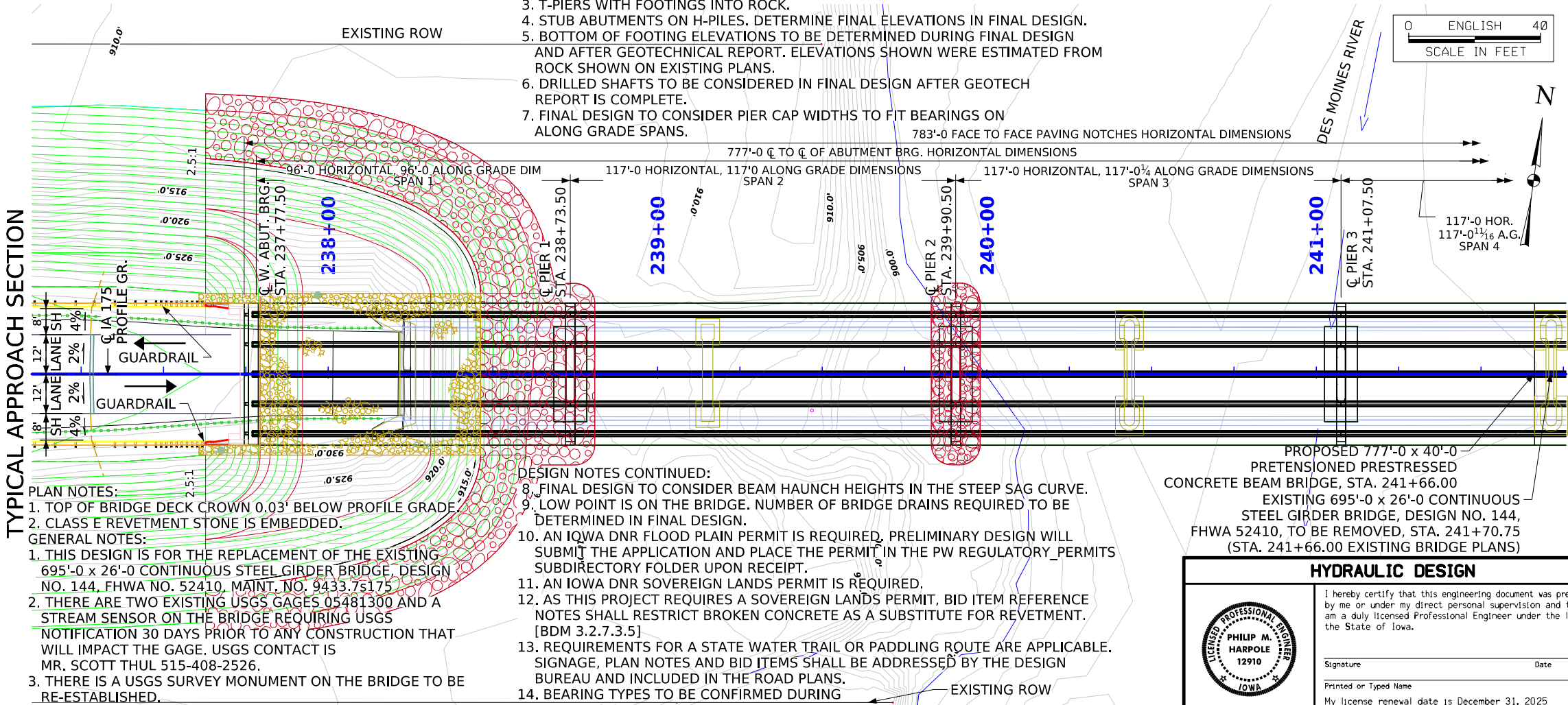
LONGITUDINAL SECTION ALONG $\mathcal{C}$ APPROACH ROADWAY

PRELIMINARY DESIGN SCOUR ELEV. = 883.8
VERIFY ELEVATIONS WHEN SOIL BORINGS ARE COMPLETE



Proposed Profile
Grade IA 175

- DESIGN NOTES:
1. TL-4 BRIDGE RAILING PROPOSED.
 2. PROPOSED BRIDGE TYPE BTC BEAM.
 3. T-PIERS WITH FOOTINGS INTO ROCK.
 4. STUB ABUTMENTS ON H-PILES. DETERMINE FINAL ELEVATIONS IN FINAL DESIGN.
 5. BOTTOM OF FOOTING ELEVATIONS TO BE DETERMINED DURING FINAL DESIGN AND AFTER GEOTECHNICAL REPORT. ELEVATIONS SHOWN WERE ESTIMATED FROM ROCK SHOWN ON EXISTING PLANS.
 6. DRILLED SHAFTS TO BE CONSIDERED IN FINAL DESIGN AFTER GEOTECH REPORT IS COMPLETE.
 7. FINAL DESIGN TO CONSIDER PIER CAP WIDTHS TO FIT BEARINGS ON ALONG GRADE SPANS.



TYPICAL APPROACH SECTION

- PLAN NOTES:
1. TOP OF BRIDGE DECK CROWN 0.03' BELOW PROFILE GRADE
 2. CLASS E REVETMENT STONE IS EMBEDDED.
- GENERAL NOTES:
1. THIS DESIGN IS FOR THE REPLACEMENT OF THE EXISTING 695'-0" x 26'-0" CONTINUOUS STEEL GIRDER BRIDGE, DESIGN NO. 144, FHWA NO. 52410, MAINT. NO. 9433.7s175
 2. THERE ARE TWO EXISTING USGS GAGES 05481300 AND A STREAM SENSOR ON THE BRIDGE REQUIRING USGS NOTIFICATION 30 DAYS PRIOR TO ANY CONSTRUCTION THAT WILL IMPACT THE GAGE. USGS CONTACT IS MR. SCOTT THUL 515-408-2526.
 3. THERE IS A USGS SURVEY MONUMENT ON THE BRIDGE TO BE RE-ESTABLISHED.

- DESIGN NOTES CONTINUED:
8. FINAL DESIGN TO CONSIDER BEAM HAUNCH HEIGHTS IN THE STEEP SAG CURVE.
 9. LOW POINT IS ON THE BRIDGE. NUMBER OF BRIDGE DRAINS REQUIRED TO BE DETERMINED IN FINAL DESIGN.
 10. AN IOWA DNR FLOOD PLAIN PERMIT IS REQUIRED. PRELIMINARY DESIGN WILL SUBMIT THE APPLICATION AND PLACE THE PERMIT IN THE PW REGULATORY_PERMITS SUBDIRECTORY FOLDER UPON RECEIPT.
 11. AN IOWA DNR SOVEREIGN LANDS PERMIT IS REQUIRED.
 12. AS THIS PROJECT REQUIRES A SOVEREIGN LANDS PERMIT, BID ITEM REFERENCE NOTES SHALL RESTRICT BROKEN CONCRETE AS A SUBSTITUTE FOR REVETMENT. [BDM 3.2.7.3.5]
 13. REQUIREMENTS FOR A STATE WATER TRAIL OR PADDLING ROUTE ARE APPLICABLE. SIGNAGE, PLAN NOTES AND BID ITEMS SHALL BE ADDRESSED BY THE DESIGN BUREAU AND INCLUDED IN THE ROAD PLANS.
 14. BEARING TYPES TO BE CONFIRMED DURING FINAL DESIGN.

SITUATION PLAN

Location

IA 175 over Des Moines River
T-86N R-27W
Section 16/22
Dayton & Hardin Townships
Webster County
FHWA No. 052411
Bridge Maint. No. 9433.7s175
Latitude 42.252452°
Longitude -93.996136°

Hydraulic Data

Drainage Area = 5450 Sq. Mi.
Stream Slope = 2.47 Ft./Mi.
Avg. Low Water Stage = 899.3

Q₂₅ = 44,400 CFS
Stage = 914.3

Q₅₀ = 52,100 CFS
Stage = 915.07
Channel Low Beam = 931.54
Backwater = 1.25 Ft.
Avg. Bridge Velocity = 6.8 FPS

Q₁₀₀ = 59,700 CFS
Stage = 915.70
Operational Low Beam = 926.93
Backwater = 1.30 Ft.
Avg. Bridge Velocity = 7.4 FPS

Q₂₀₀ = 67,400 CFS
Stage = 916.62
Calculated Design Scour = 883.8

Q₅₀₀ = 77,600 CFS
Stage = 917.82
Avg. Bridge Velocity = 8.3 FPS
Calculated Check Scour = 883.3

Roadway Overtop 931.89
Sta. 238+69

RIBD Site Identification Code:
DesMoinesR259.36

Traffic Estimate

2026 AADT 700 V.P.D.
2046 AADT 800 V.P.D.
2046 DHV 90 V.P.H.
Trucks 17 %
Total
Design ESALs

Utilities Legend

Symbol - Type
Power Pole
USGS River Gauge
Utilities shown on this sheet are for information only, see road design sheets for final utility information.

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 _____ Date _____

Printed or Typed Name _____

My license renewal date is December 31, 2025

Pages or sheets covered by this seal: V.1-V.4

Design For 0° Skew
770'-0" x 40'-0" PRETENSIONED PRE-STRESSED CONCRETE BEAM BRIDGE
96'-0" End Spans 117'-0" Interior Spans

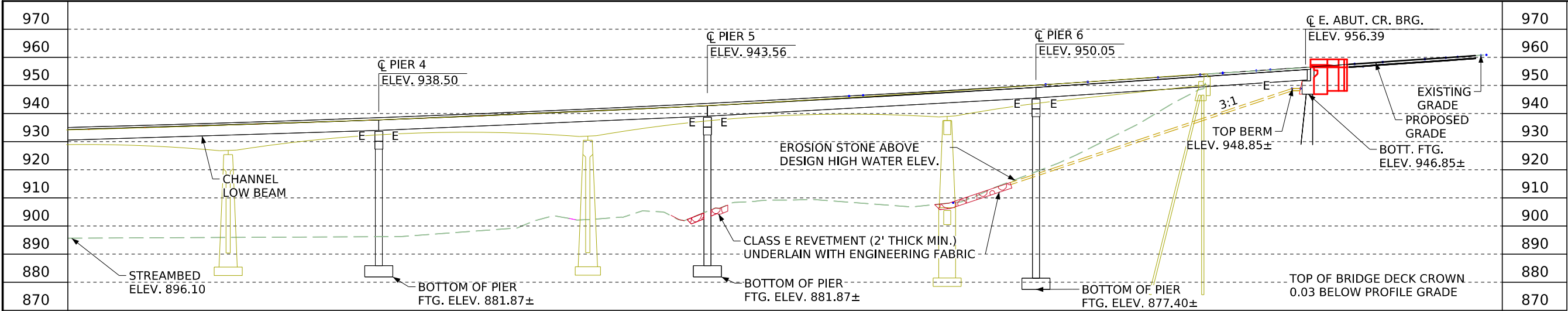
SITUATION PLAN

STA. 241+66.00 (IA 175)

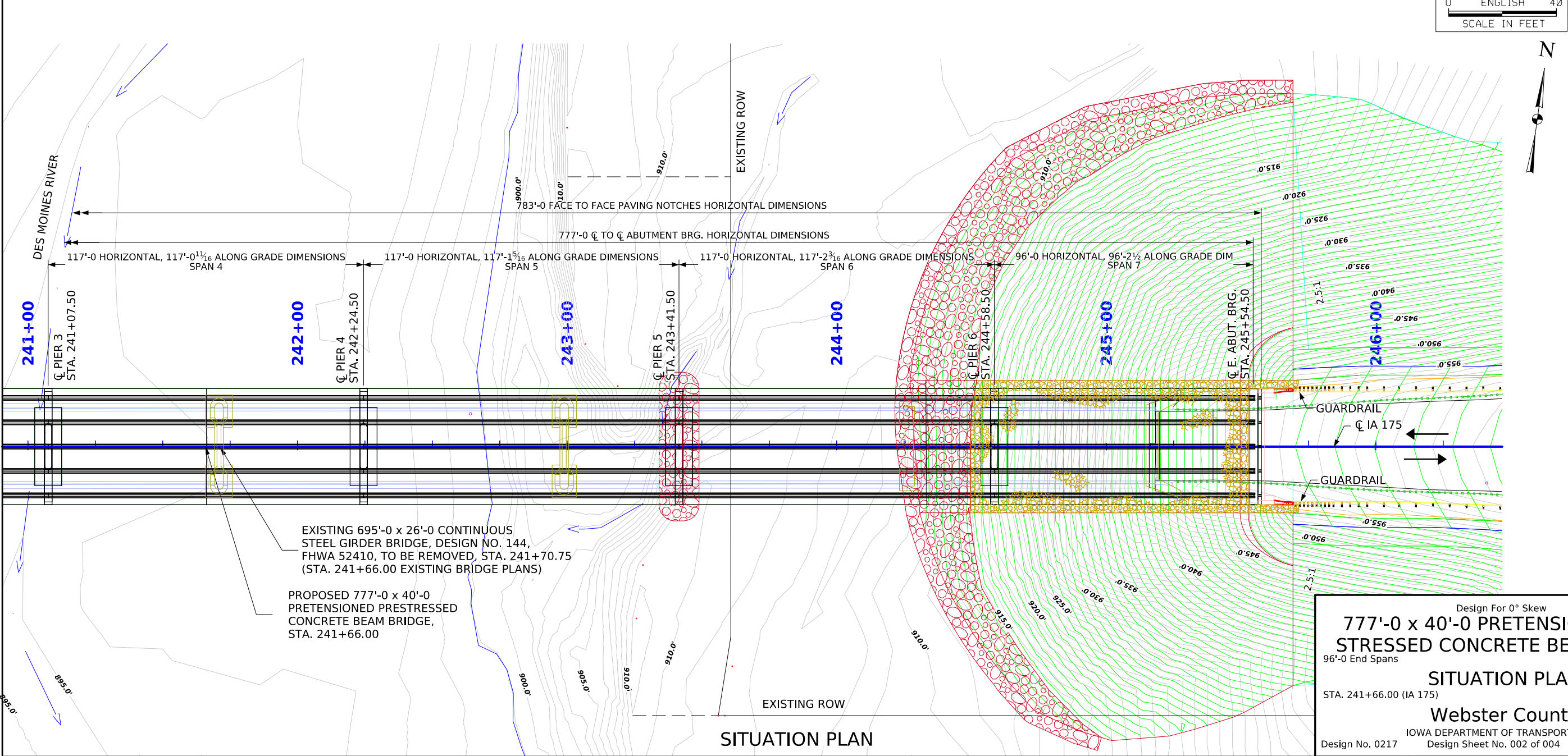
FEBRUARY 2025

Webster County

IOWA DEPARTMENT OF TRANSPORTATION
Design No. 0217 Design Sheet No. 001 of 004 FHWA/Asset 052411



LONGITUDINAL SECTION ALONG CL APPROACH ROADWAY



Design For 0° Skew

777'-0 x 40'-0 PRETENSIONED PRE-STRESSED CONCRETE BEAM BRIDGE

96'-0 End Spans 117'-0 Interior Spans

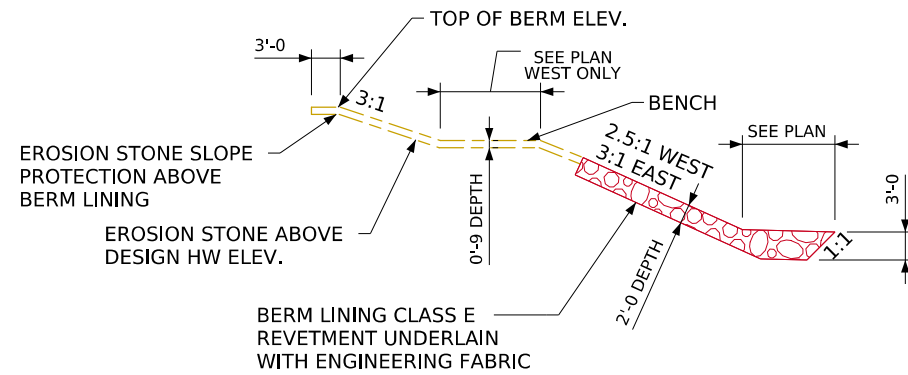
SITUATION PLAN

STA. 241+66.00 (IA 175)

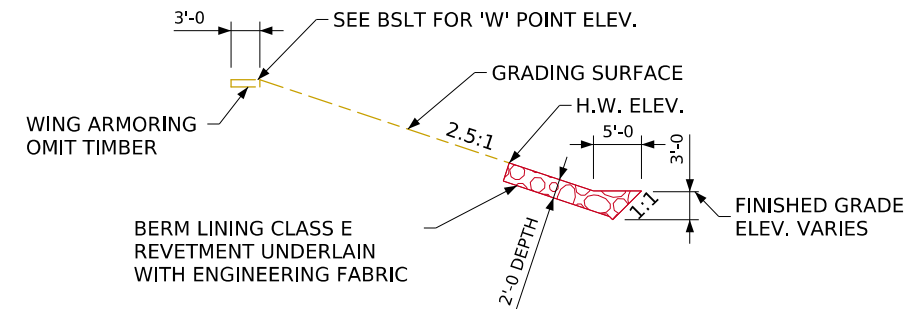
Webster County

IOWA DEPARTMENT OF TRANSPORTATION
Design No. 0217 Design Sheet No. 002 of 004 FHWA/Asset 052411

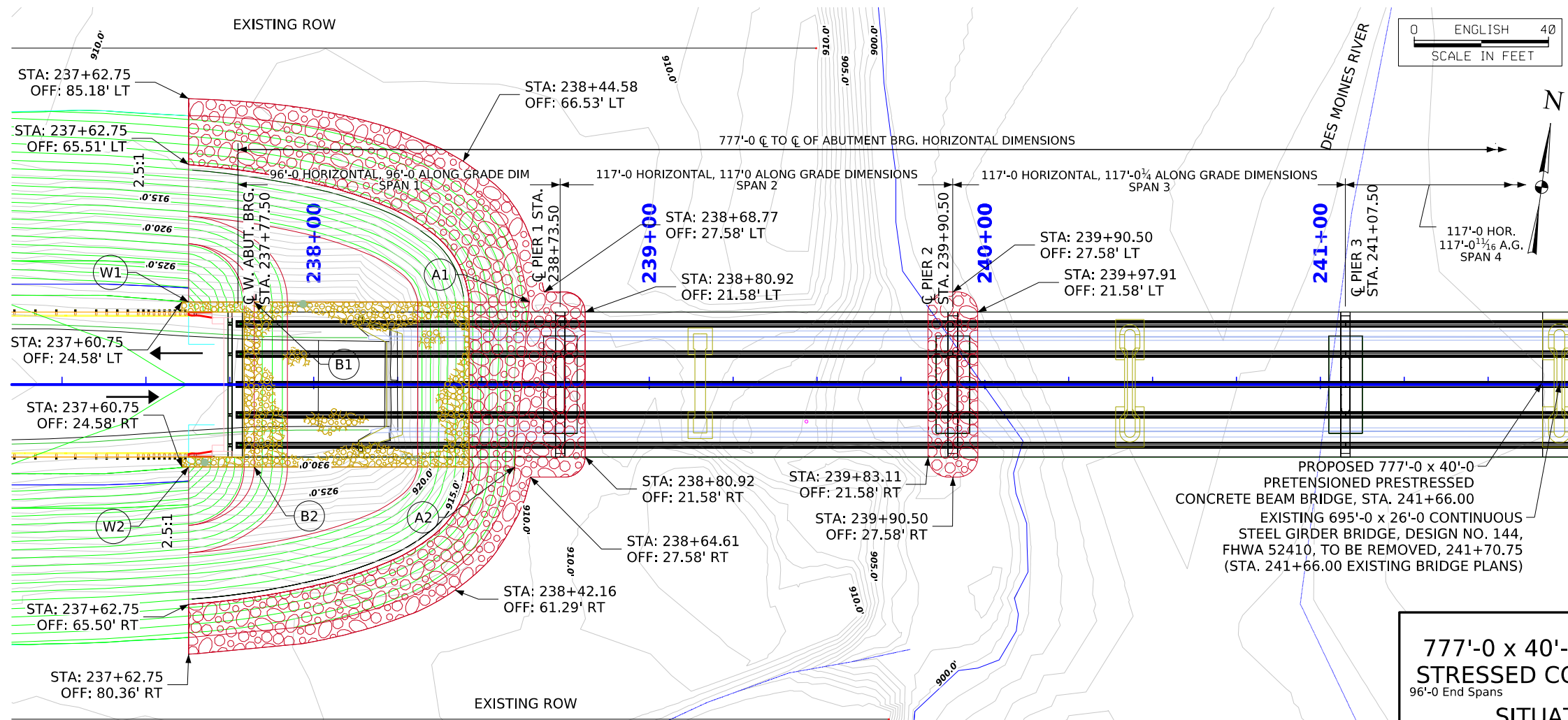
FEBRUARY 2025



SECTION THRU EMBEDDED REVETMENT BERM



SECTION THRU EMBEDDED REVETMENT BERM
NORMAL TO BRIDGE WING AT 'W' POINT



SITE PLAN

Design For 0° Skew

777'-0 x 40'-0 PRETENSIONED PRE-STRESSED CONCRETE BEAM BRIDGE

96'-0 End Spans 117'-0 Interior Spans

SITUATION PLAN - SITE

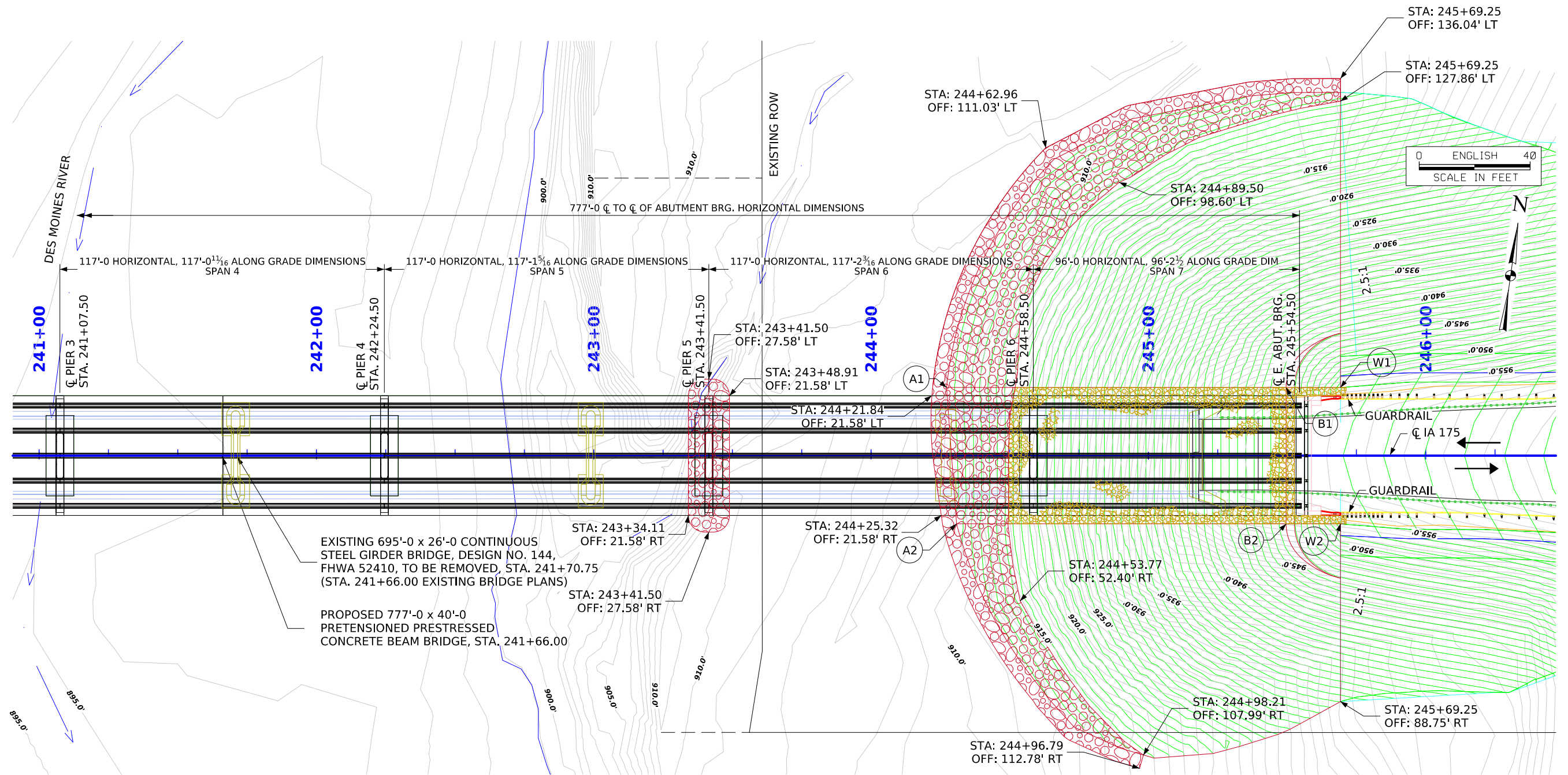
STA. 241+66.00 (IA 175)

Webster County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 0127 Design Sheet No. 003 of 004 FHWA/Asset 052411

FEBRUARY 2025



SITE PLAN

Berm Slope Location Table						
Points	West Abutment			East Abutment		
	Station	Offset	Elev.	Station	Offset	Elev.
A1	238+46.28	24.58' LT	908.79	244+27.20	24.58' LT	908.03
A2	238+46.28	24.58' RT	909.94	244+30.84	24.58' RT	909.24
B1	237+82.75	24.58' LT	924.79±	245+49.25	24.58' LT	948.85±
B2	237+82.75	24.58' RT	924.79±	245+49.25	24.58' RT	948.85±
W1	237+62.75	24.58' LT	931.96	245+69.25	24.58' LT	956.88
W2	237+62.75	24.58' RT	931.96	245+69.25	24.58' RT	956.88

Berm slope elevations reflect the grading surface.

Estimated Berm Armoring Quantities				
Location	Revetment CL. E (Ton)	Erosion Stone (Ton)	Engineering Fabric (SY)	Excavation (CY)
Berm Lining - West Abutment	764.0	152.4	778.8	568.9
Berm Lining - East Abutment	861.9	238.6	882.2	678.9
Pier 2	88.4		111.8	55.3
Pier 5	88.4		111.8	55.3
Totals	1802.7	391.0	1884.6	1358.4

Excavation quantity calculated from grading surface.

Design For 0° Skew

777'-0 x 40'-0 PRETENSIONED PRE-STRESSED CONCRETE BEAM BRIDGE

96'-0 End Spans117'-0 Interior Spans

SITUATION PLAN - SITE

STA. 241+66.00 (IA 175)

FEBRUARY 2025

Webster County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 0127 of 004FHWA/Asset 052411

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

NOTES:

Text

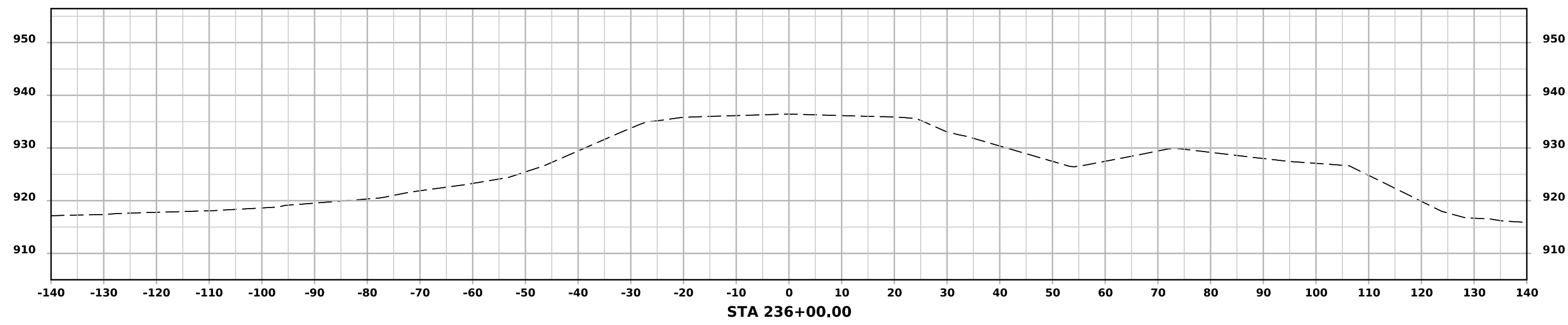
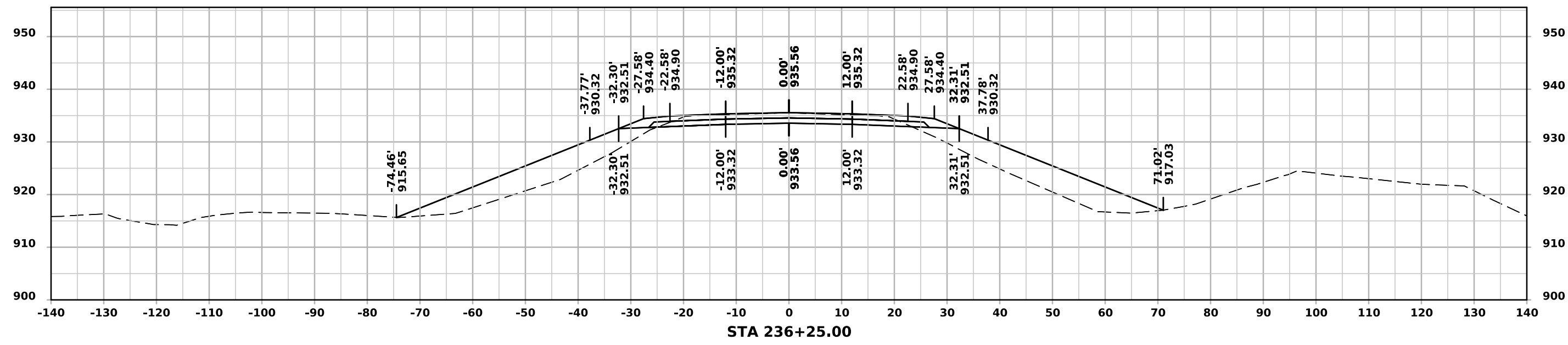
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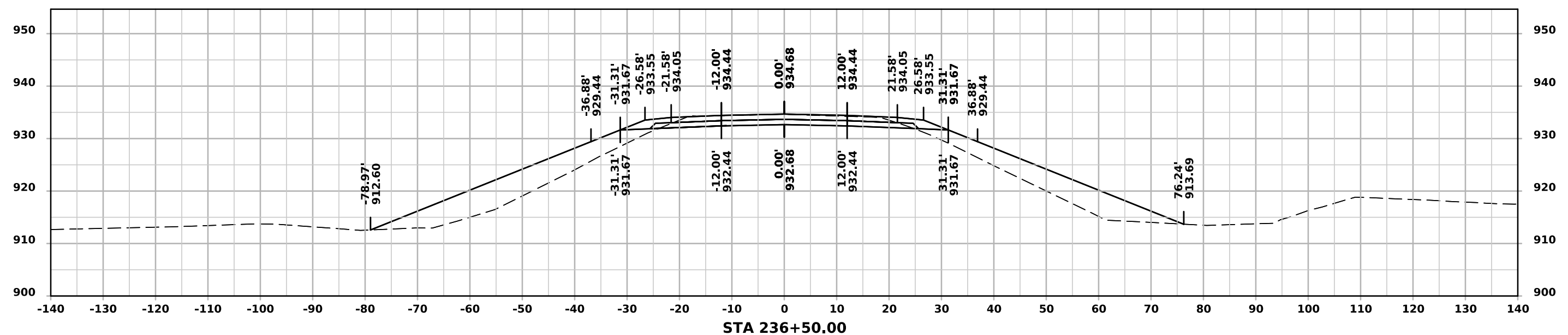
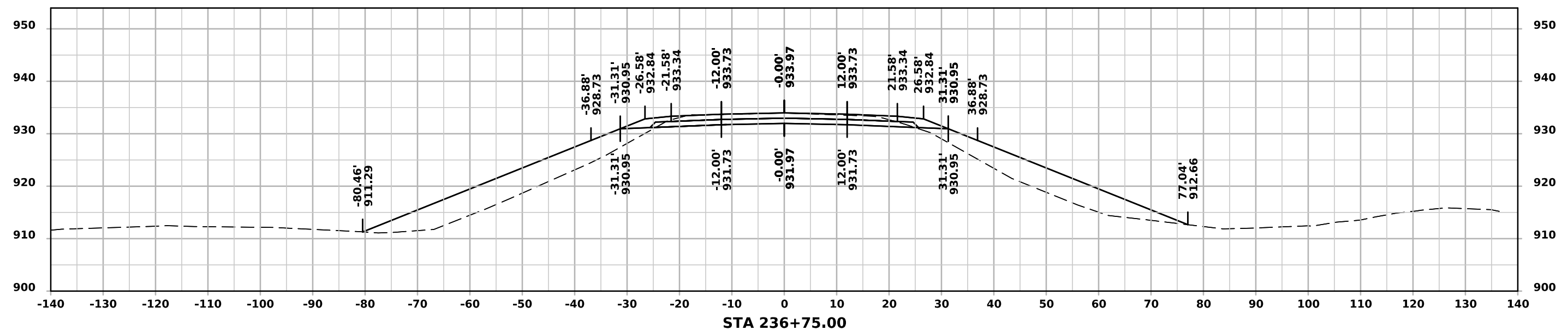
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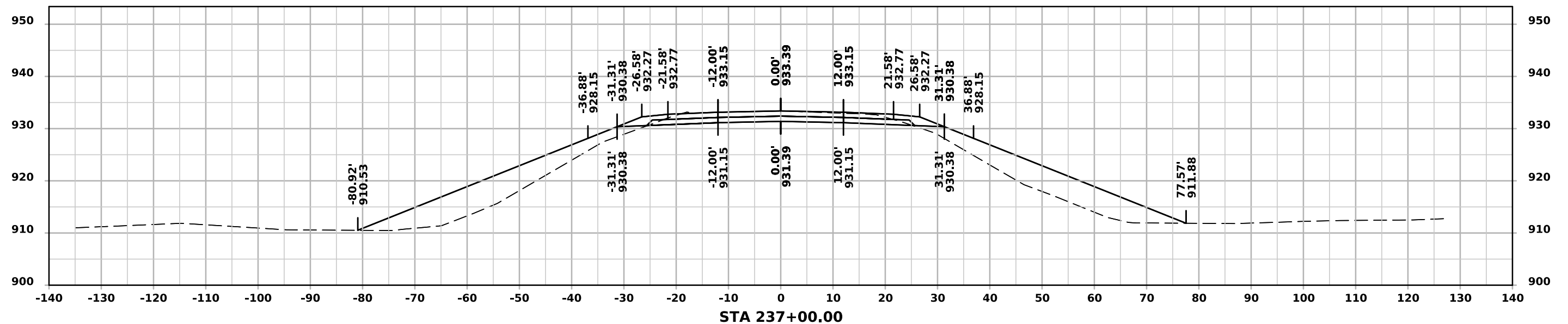
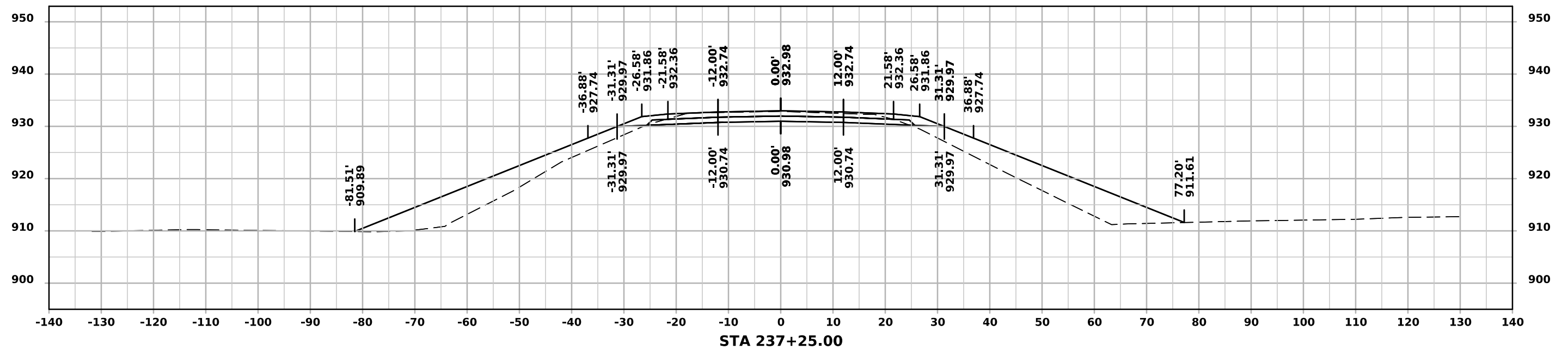
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

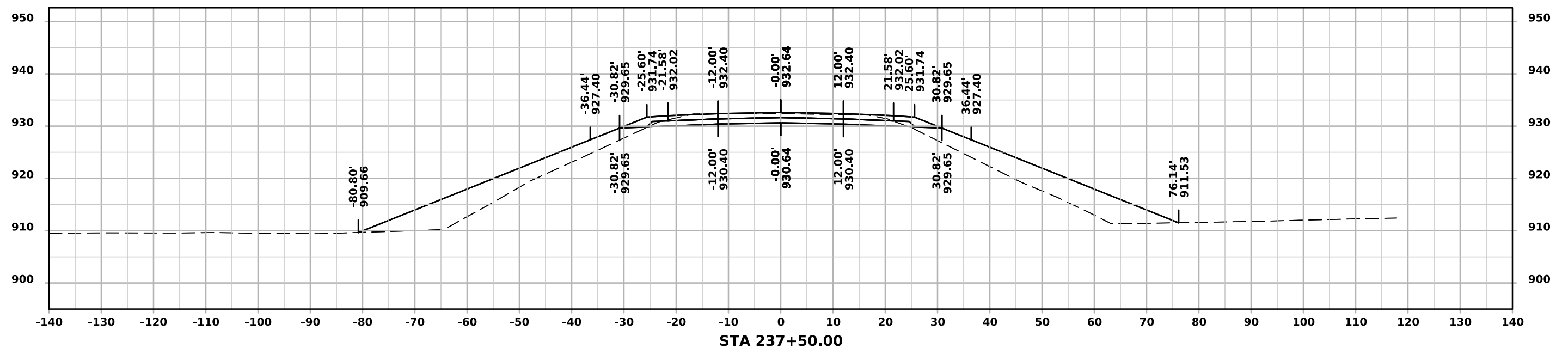
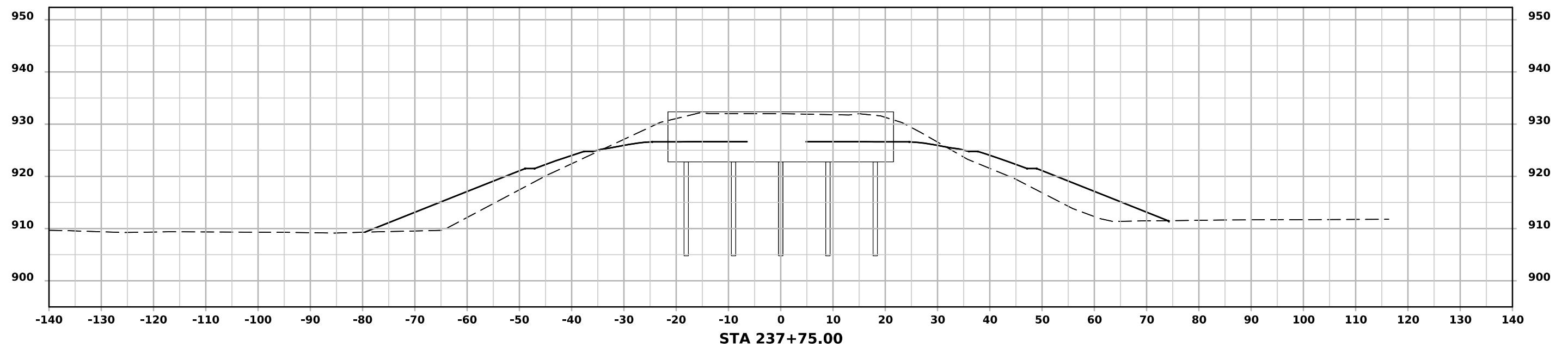
(COVERS SHEET SERIES W, X, Y, & Z)

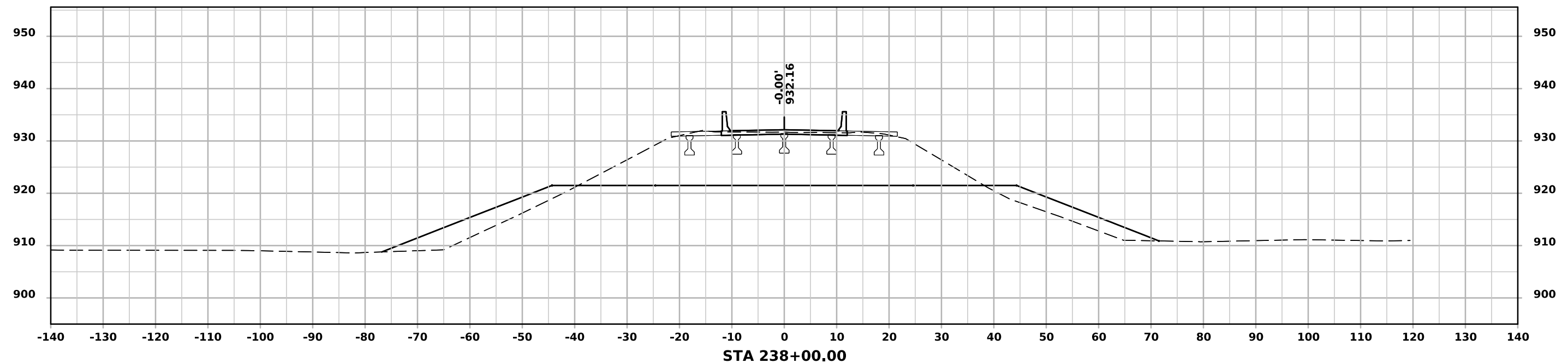
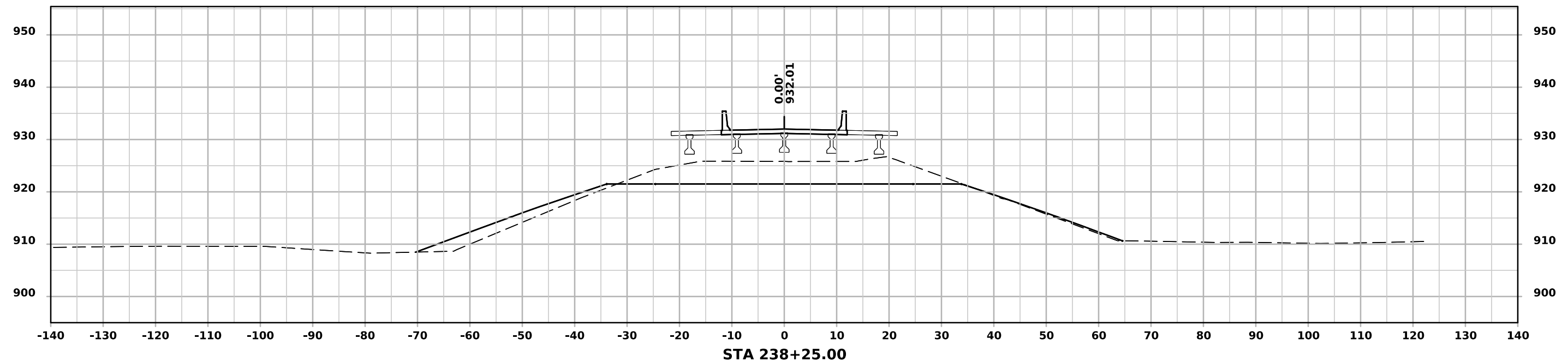
IA 175



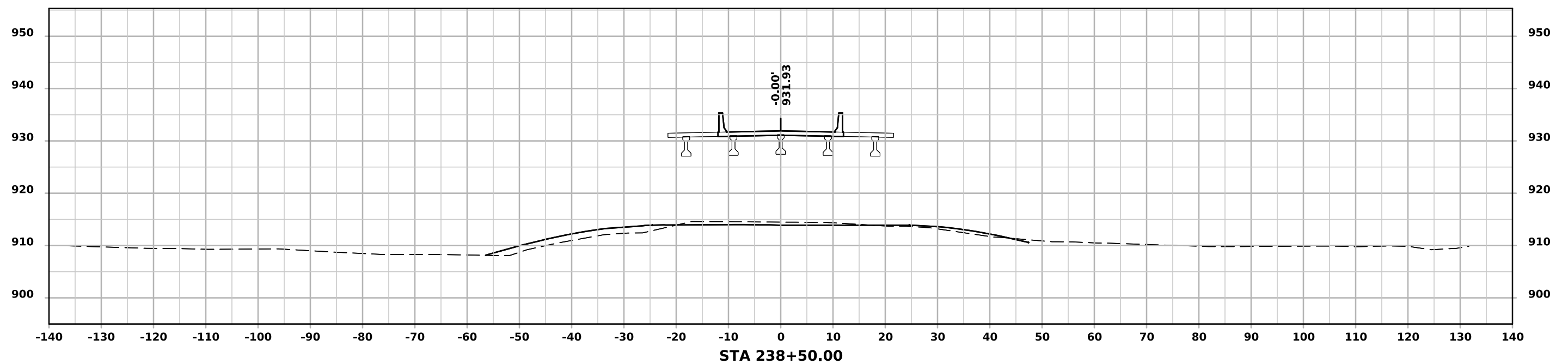
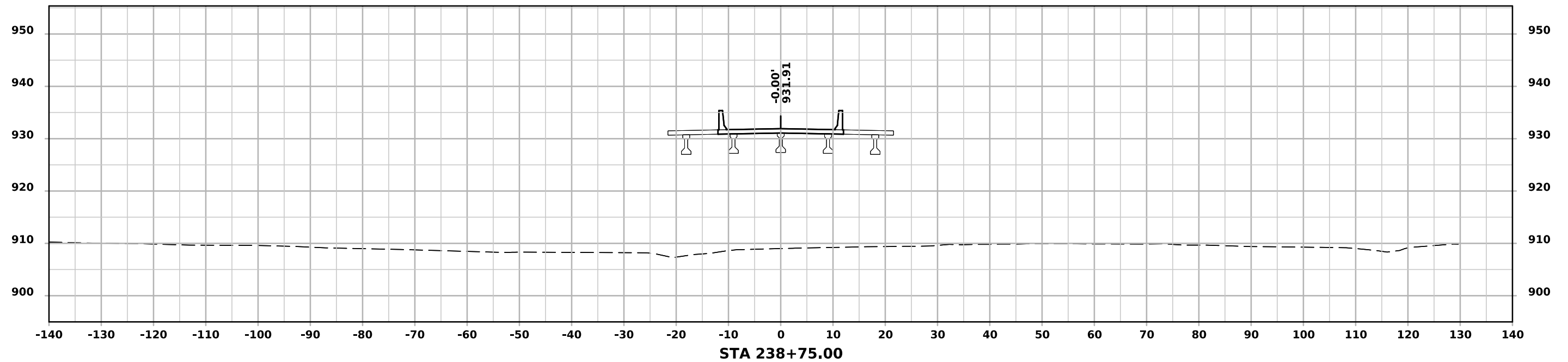




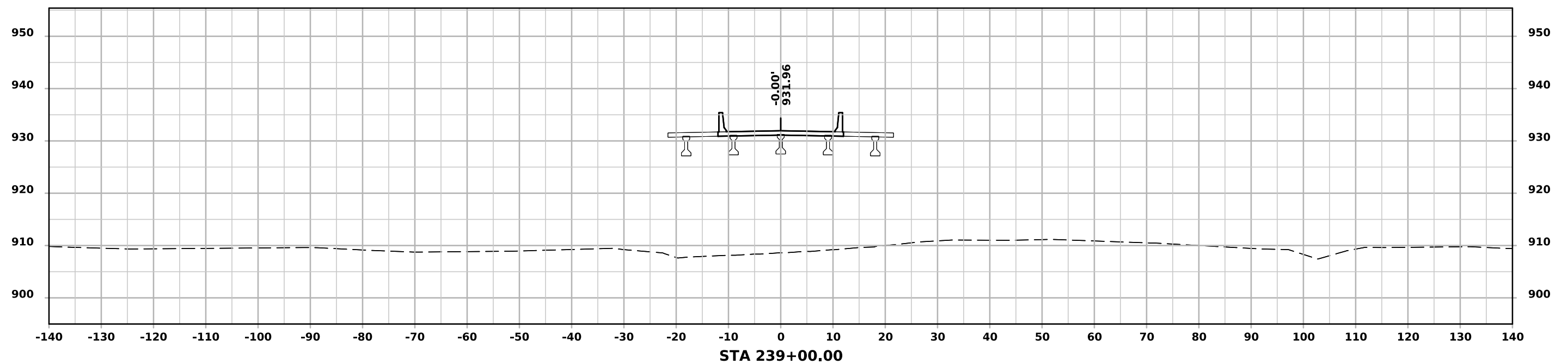
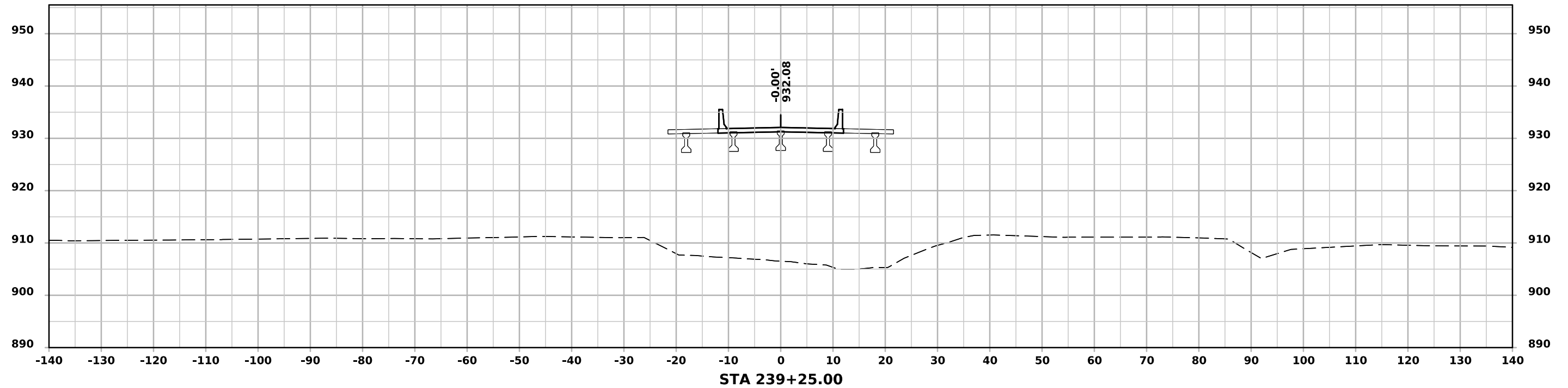




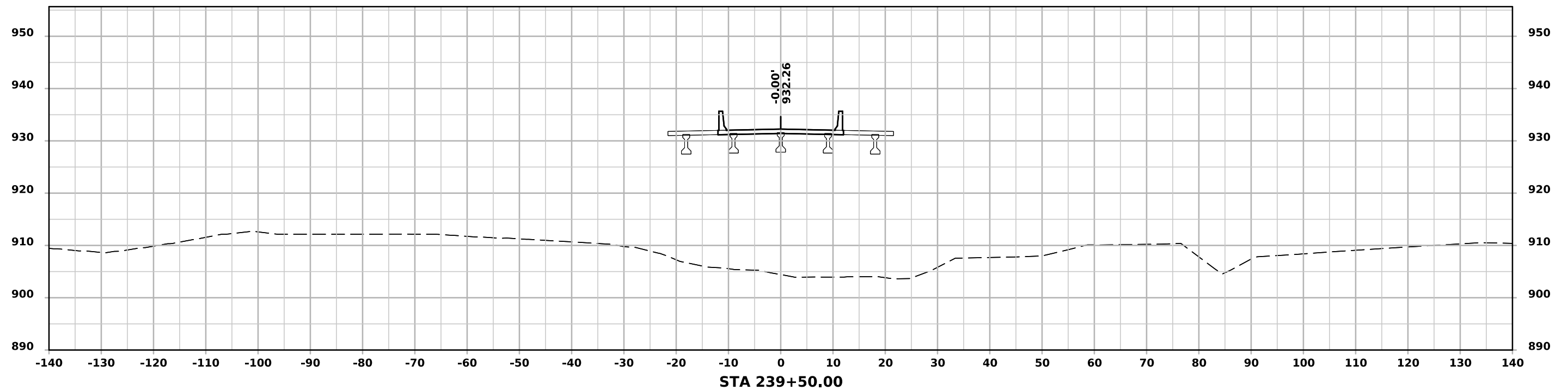
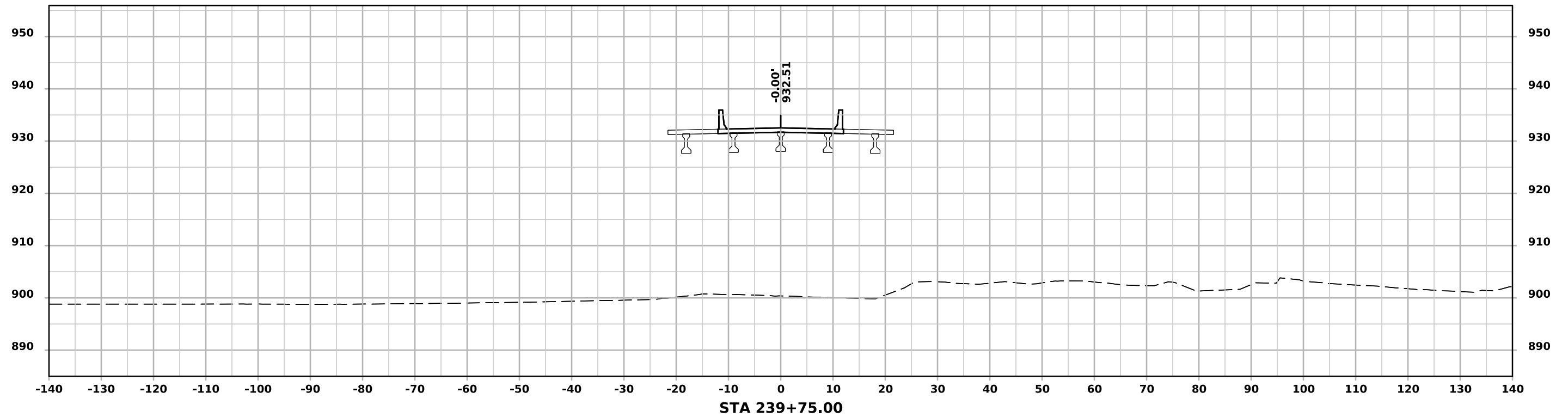
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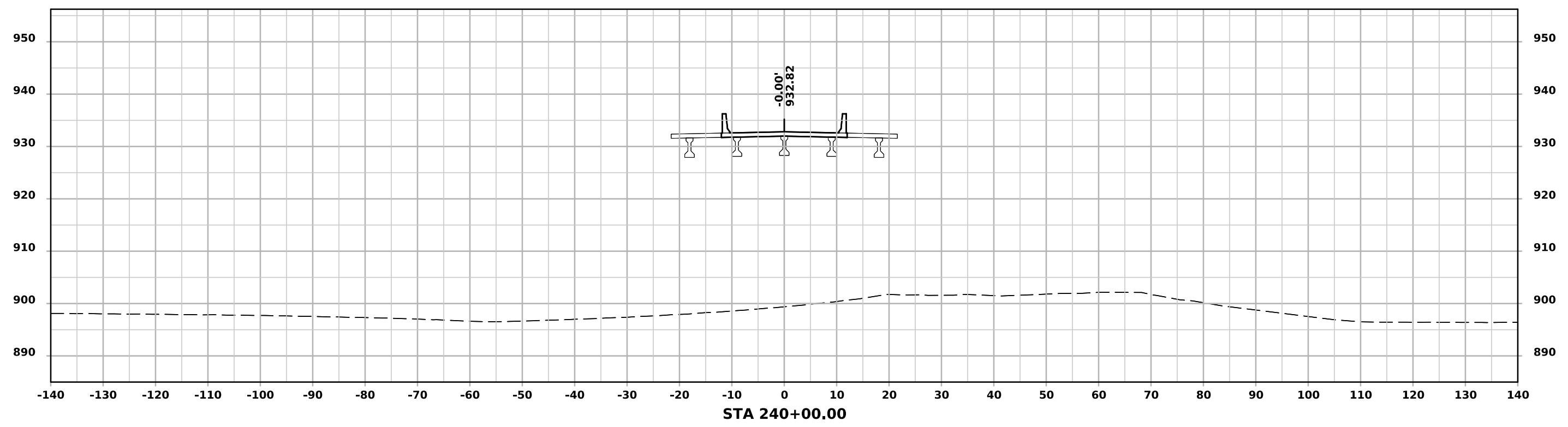
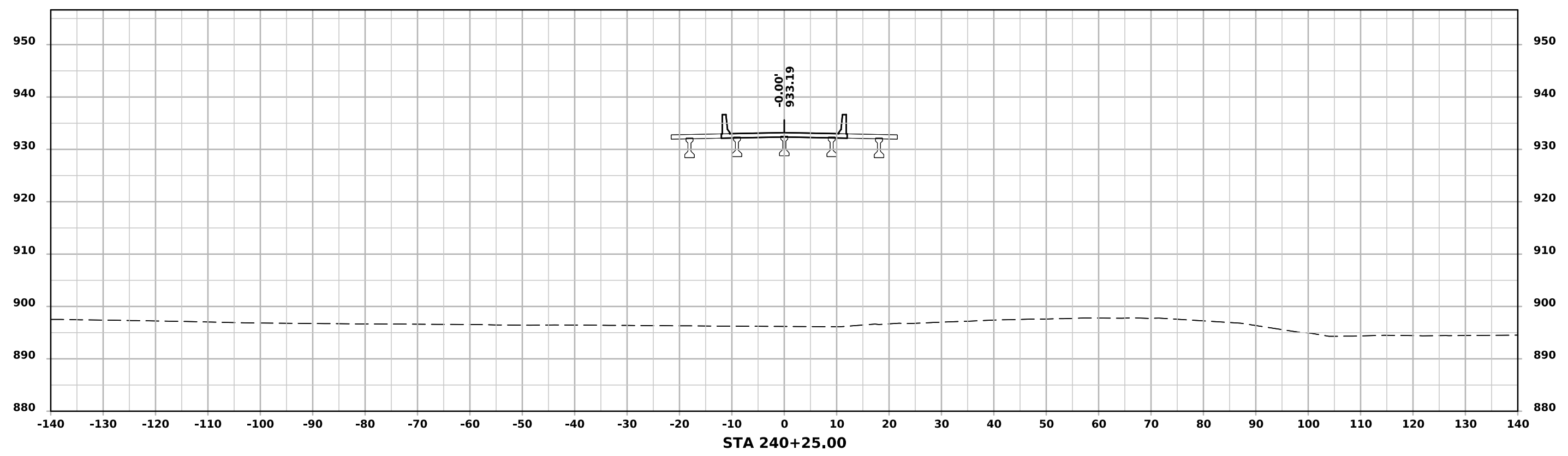
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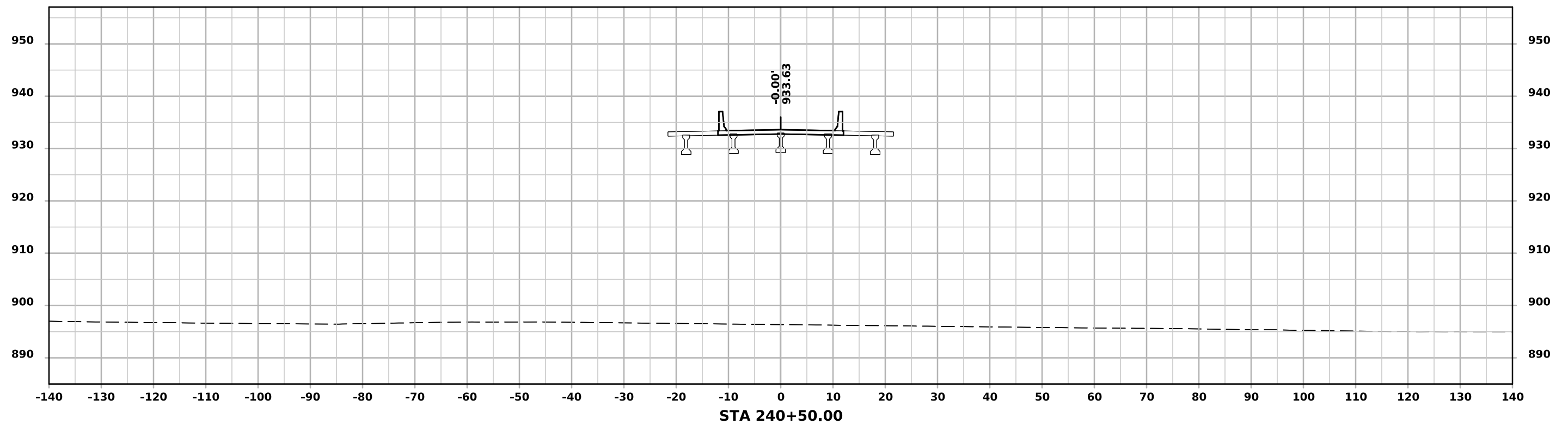
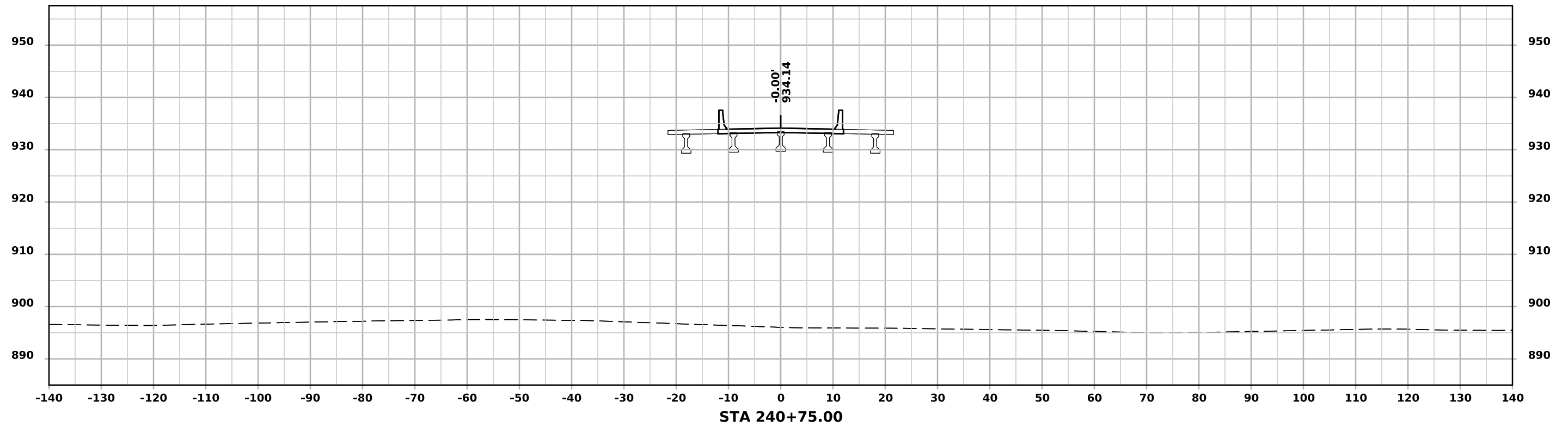
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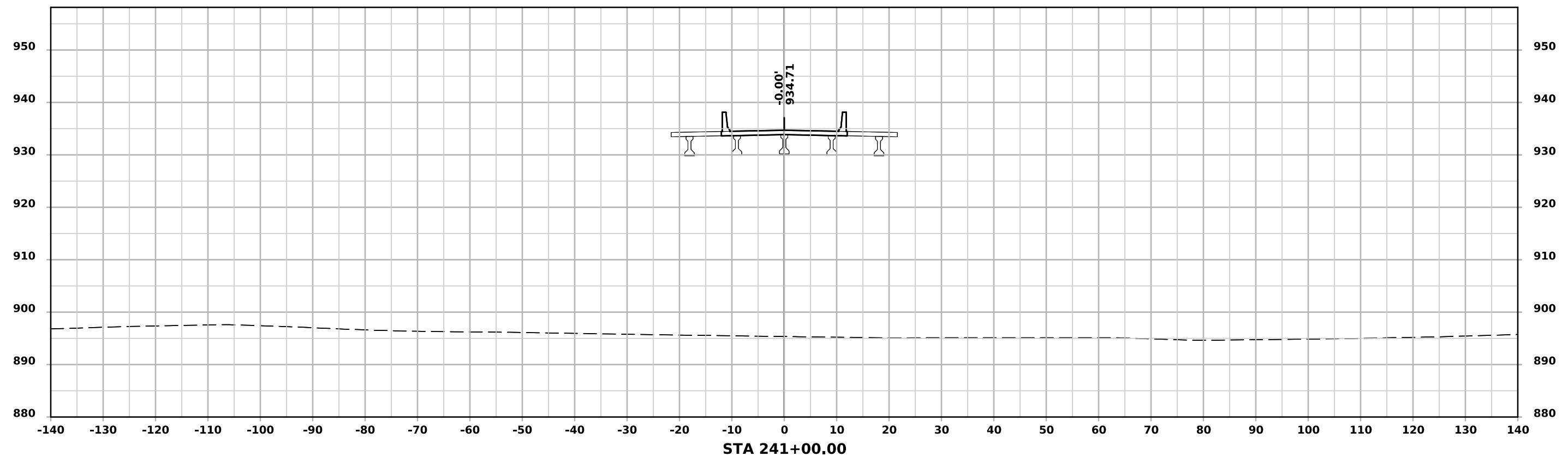
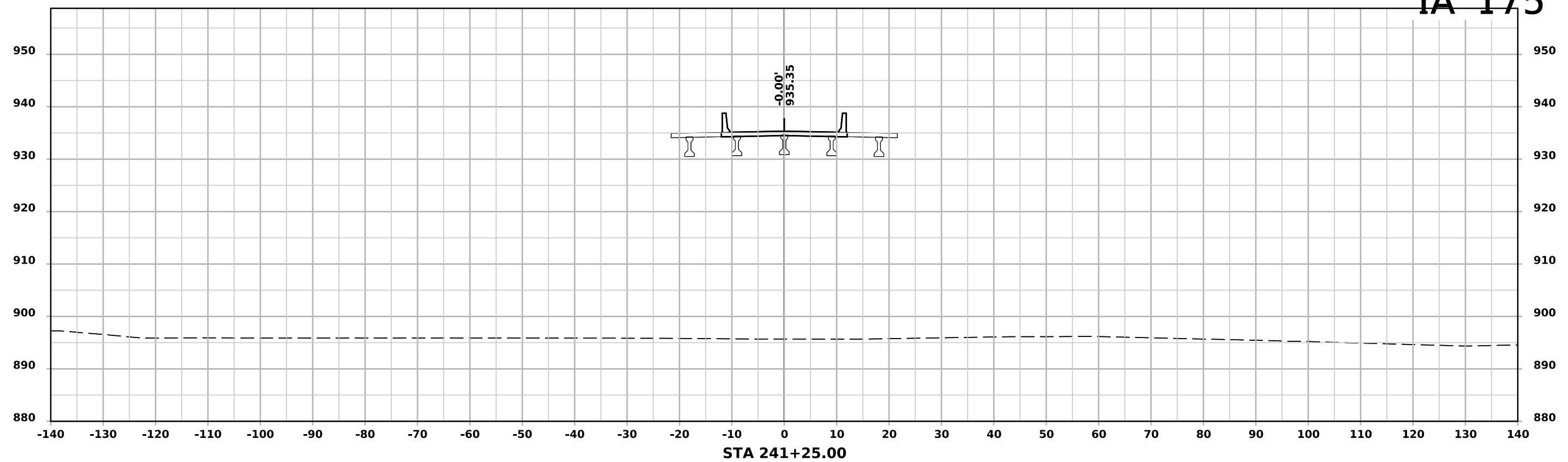
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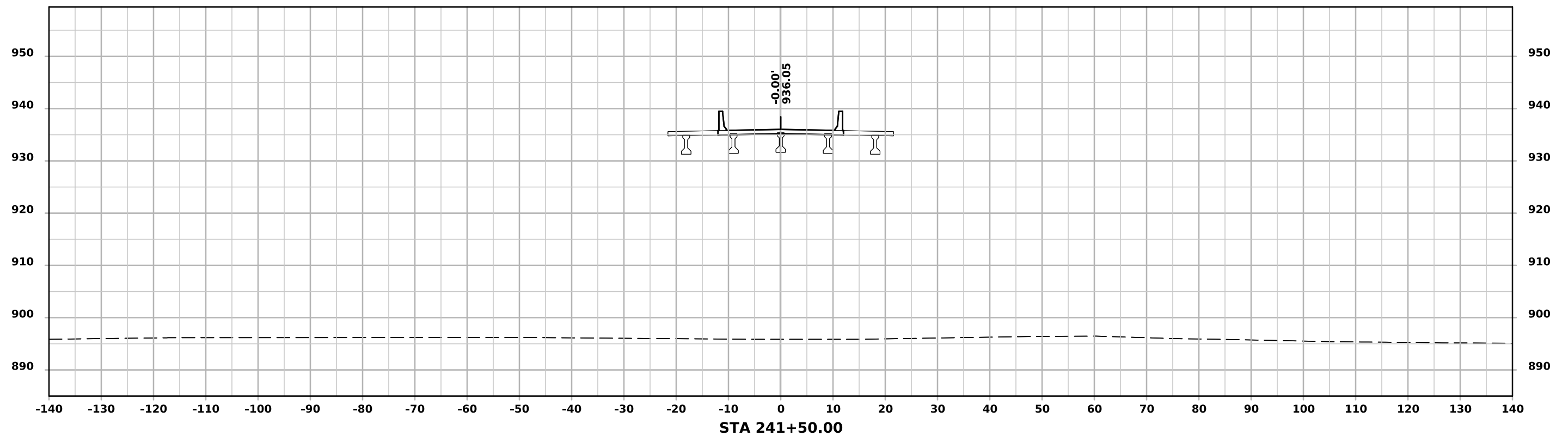
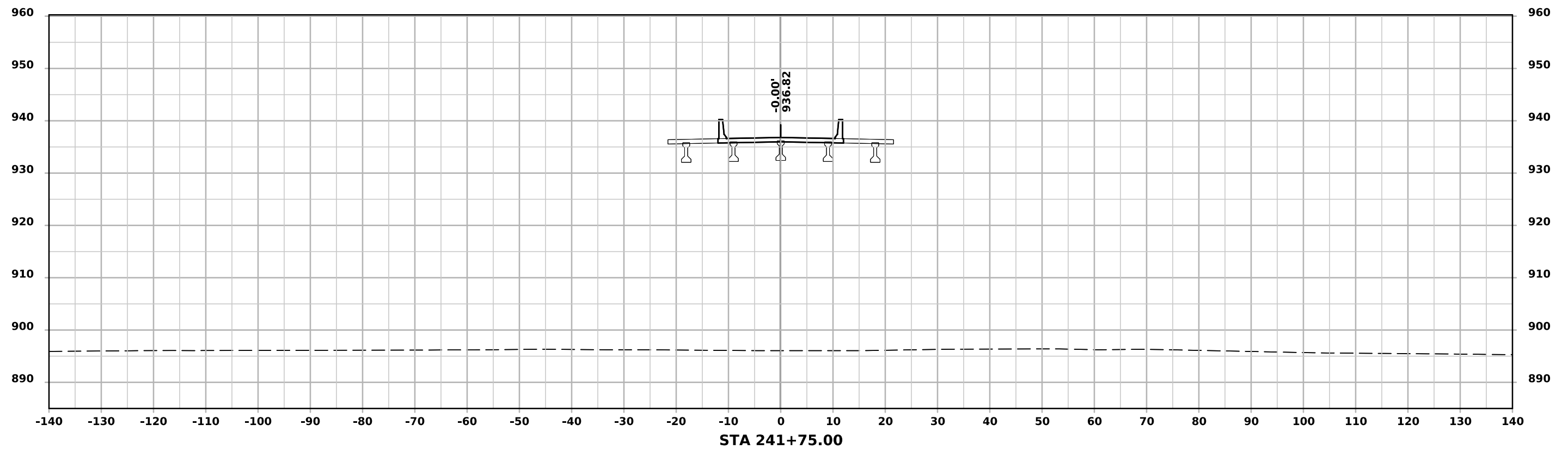
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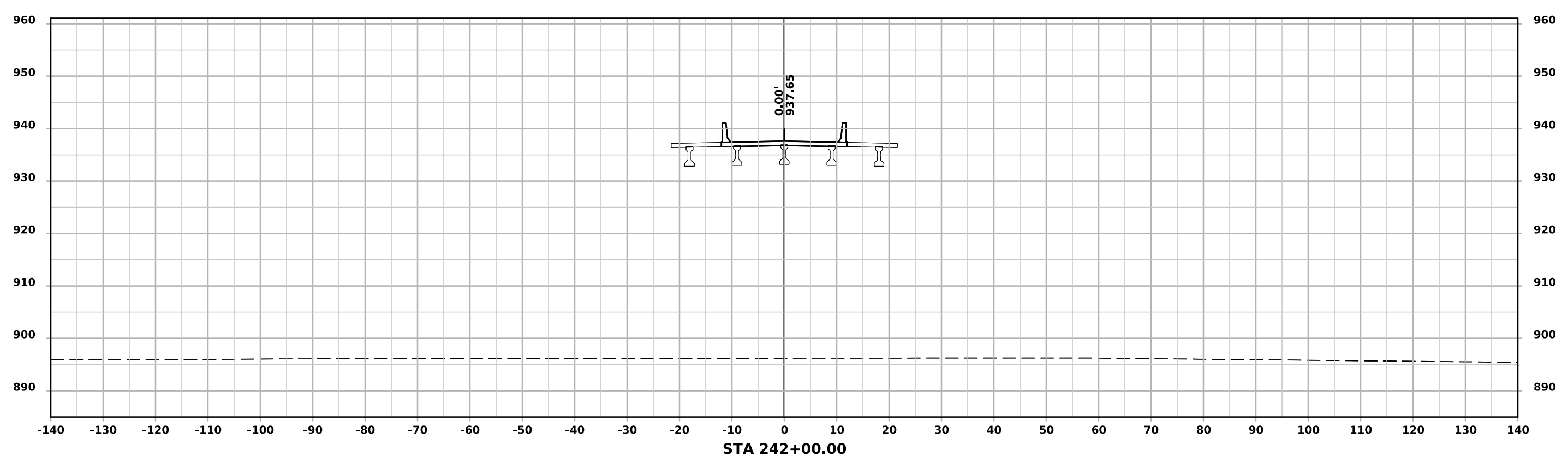
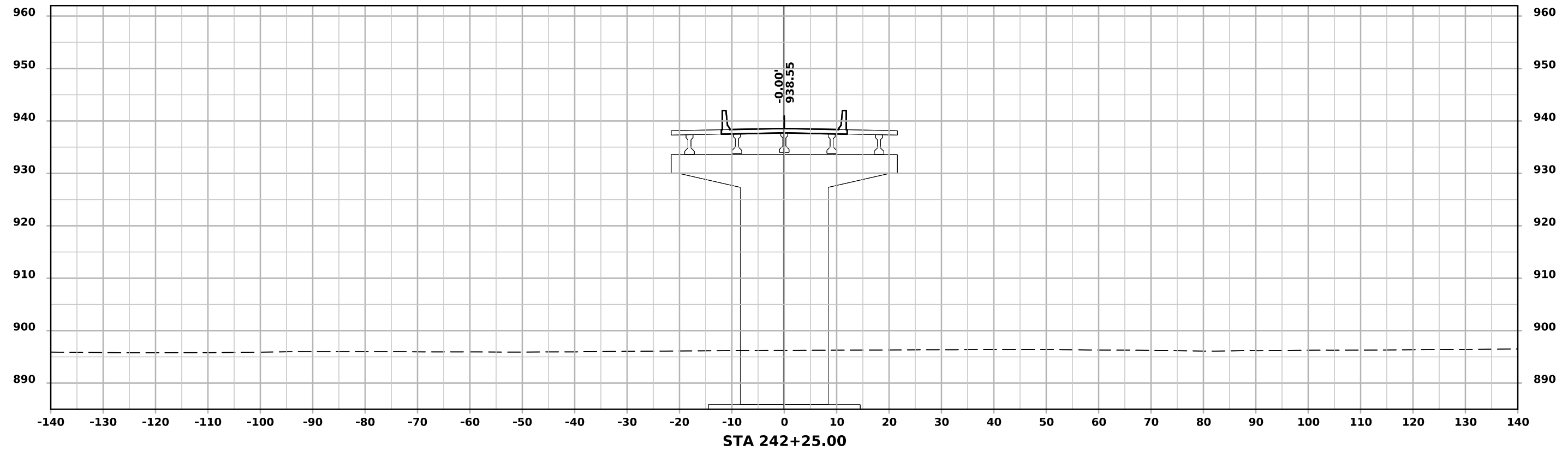
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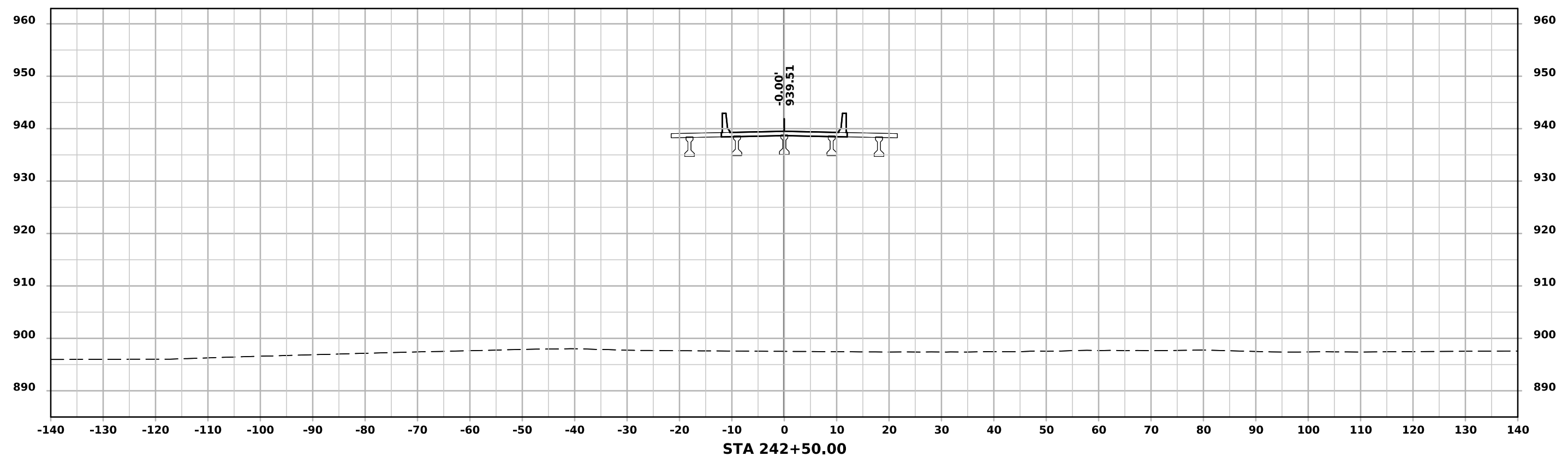
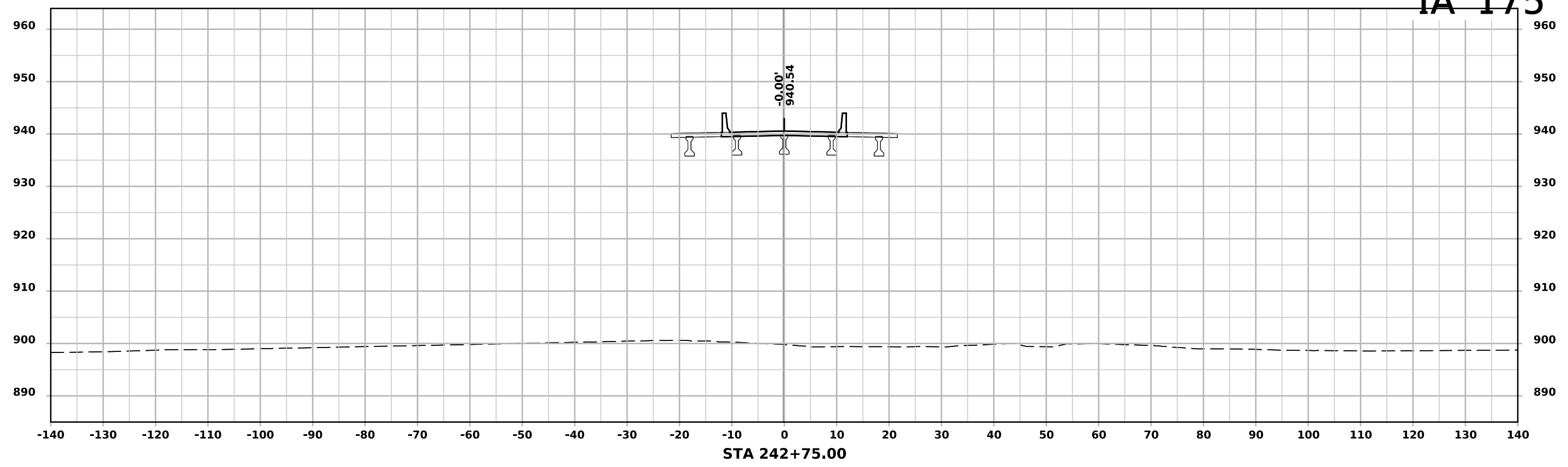


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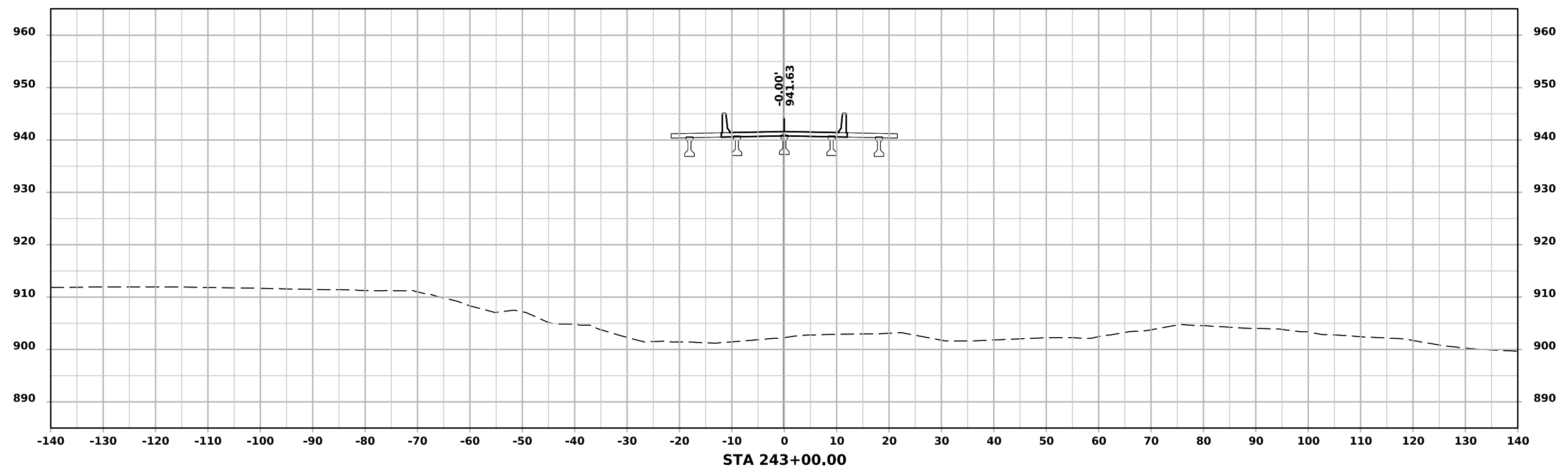
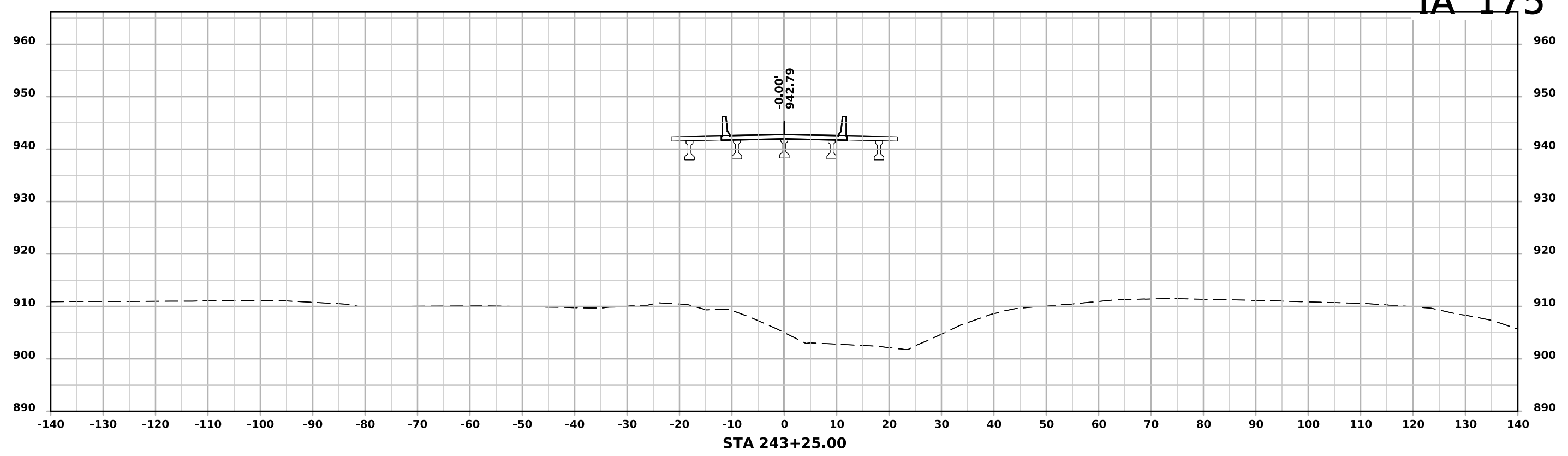


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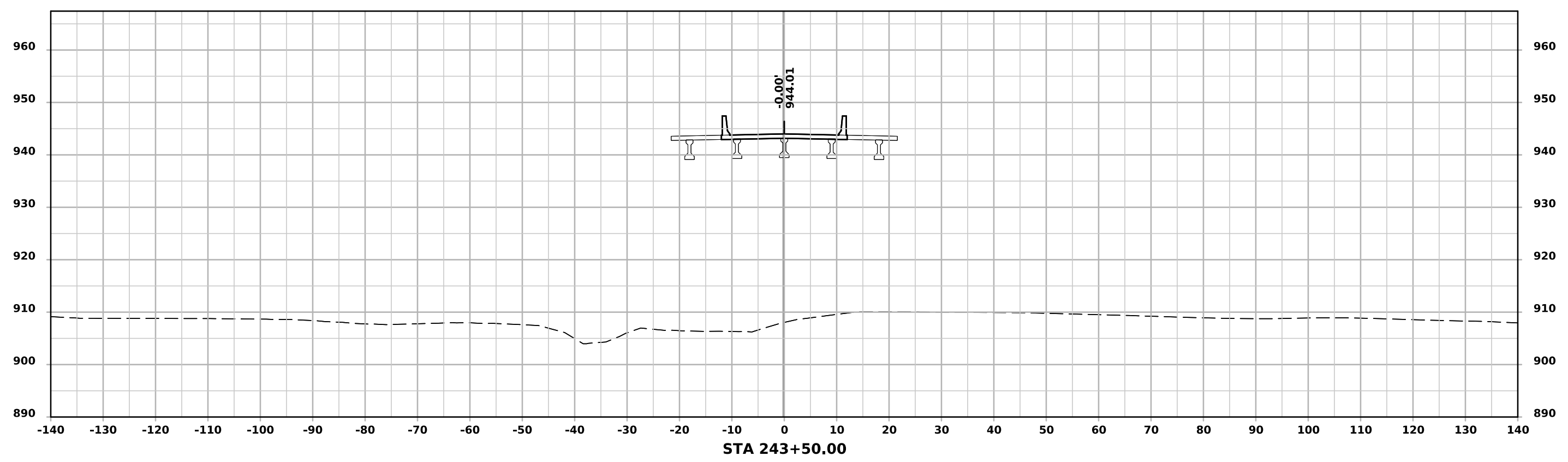
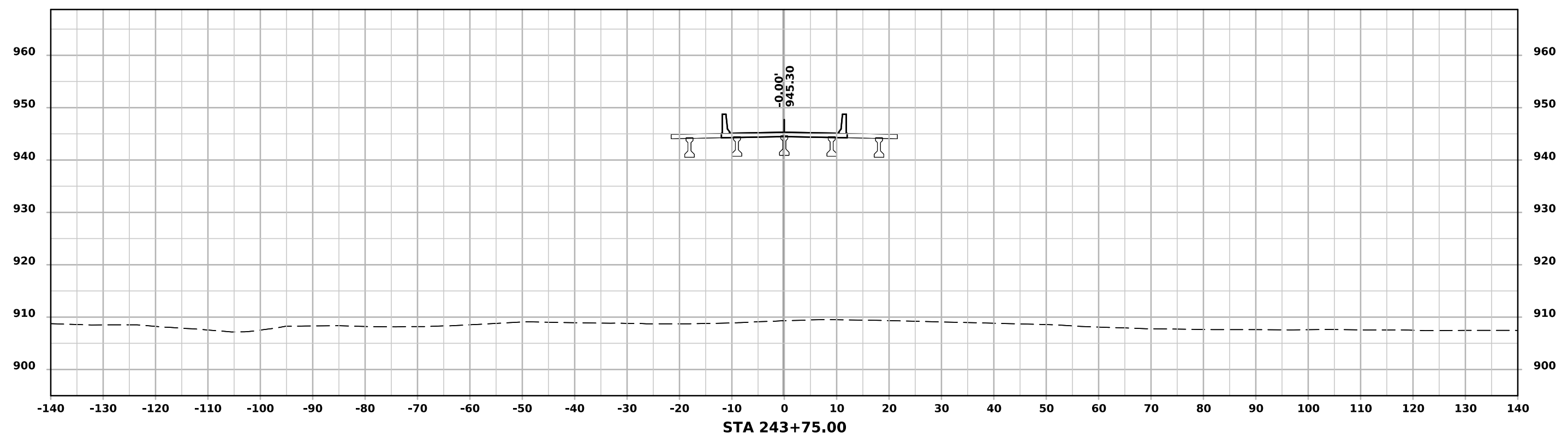




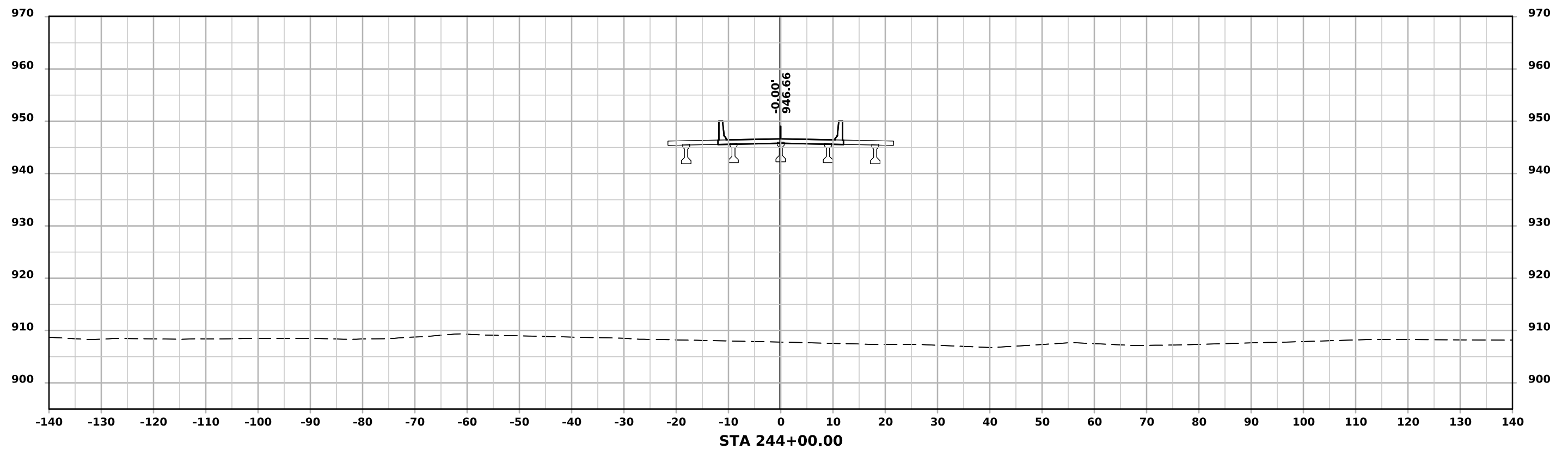
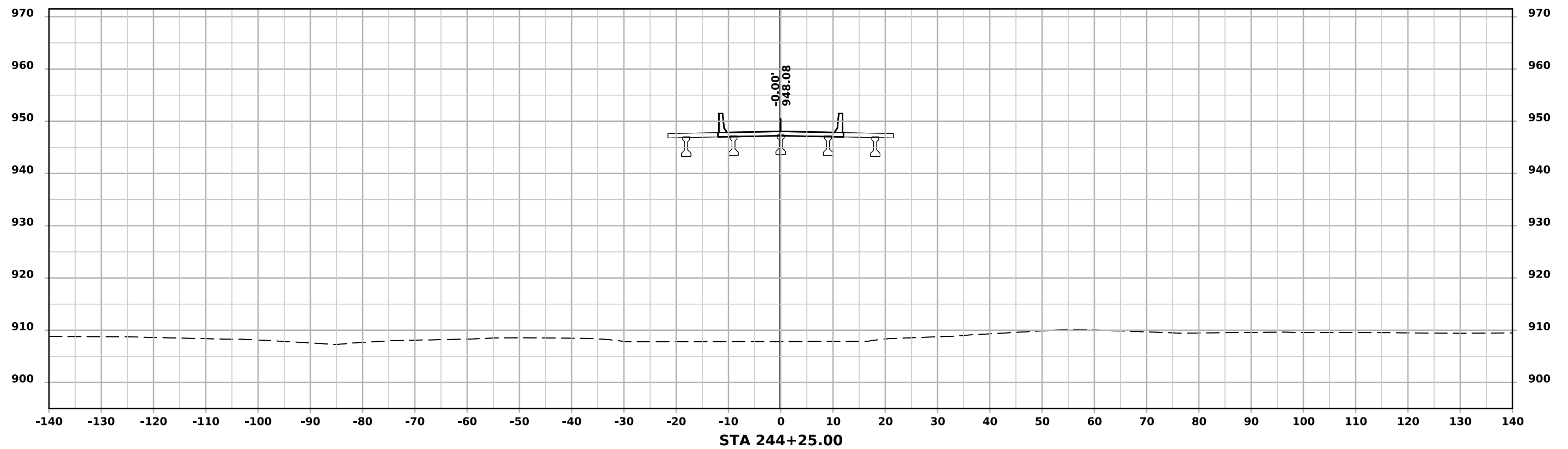
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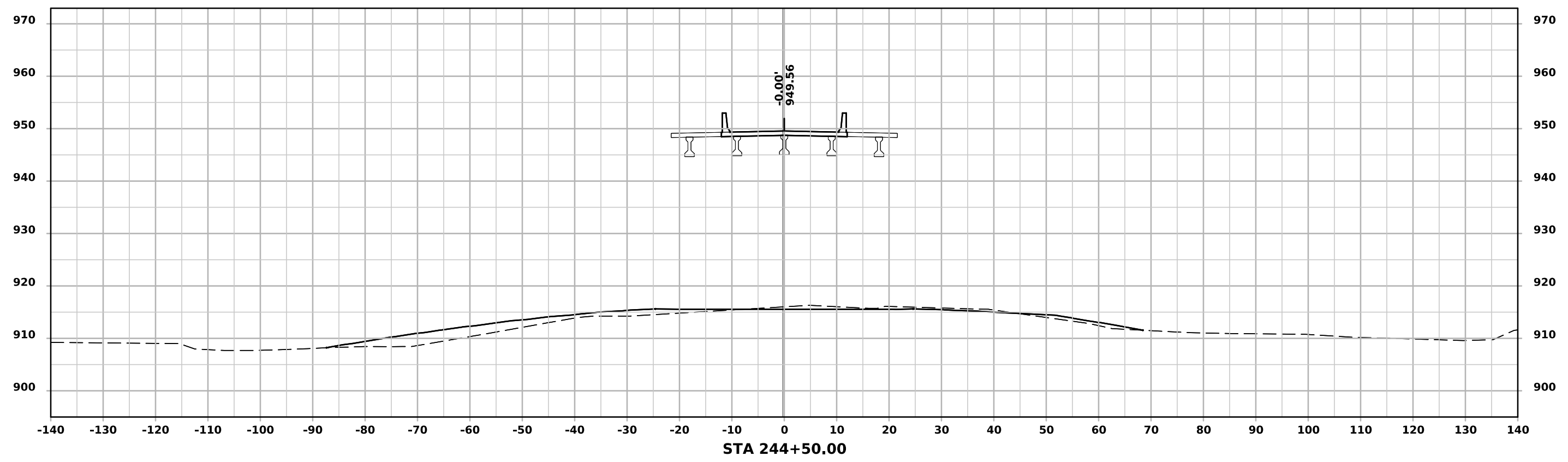
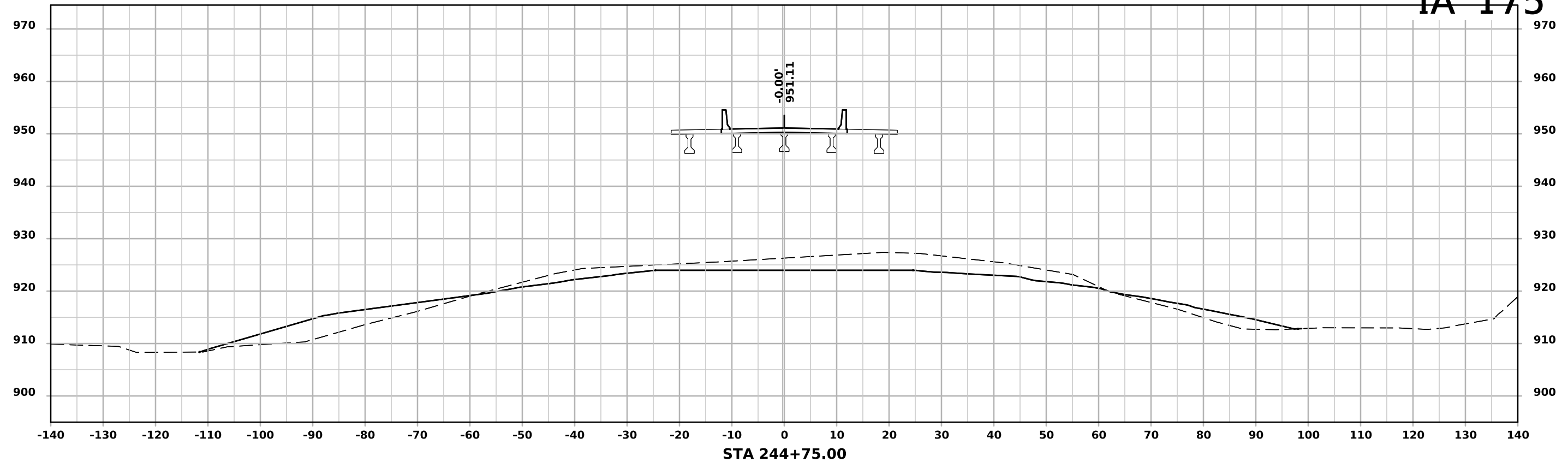


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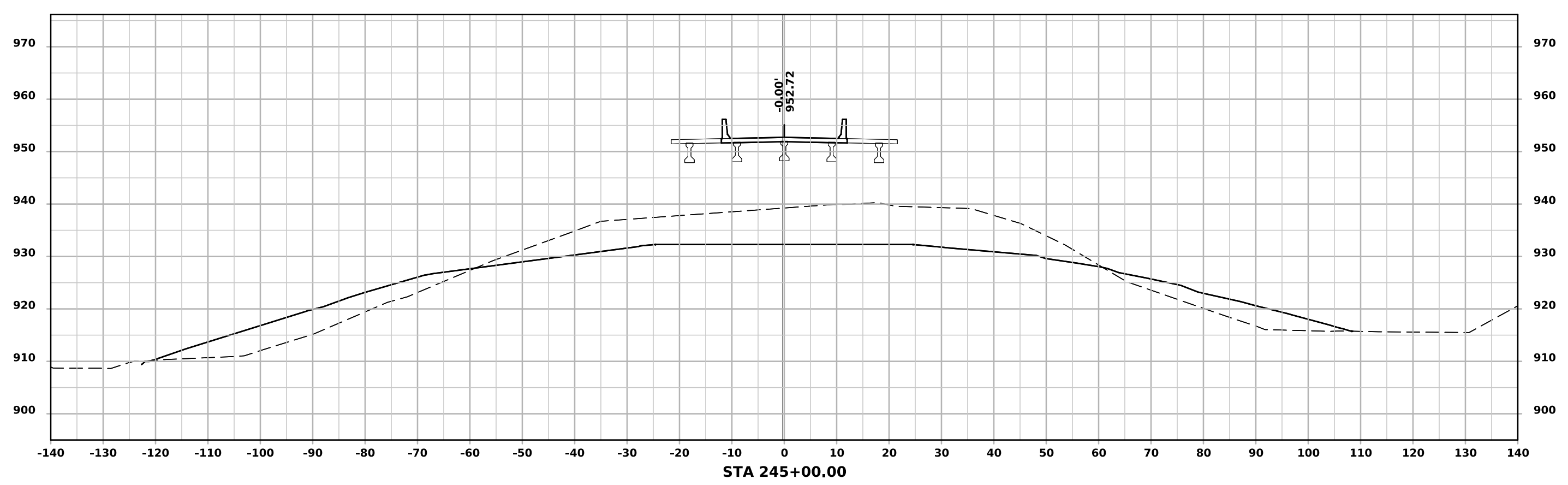
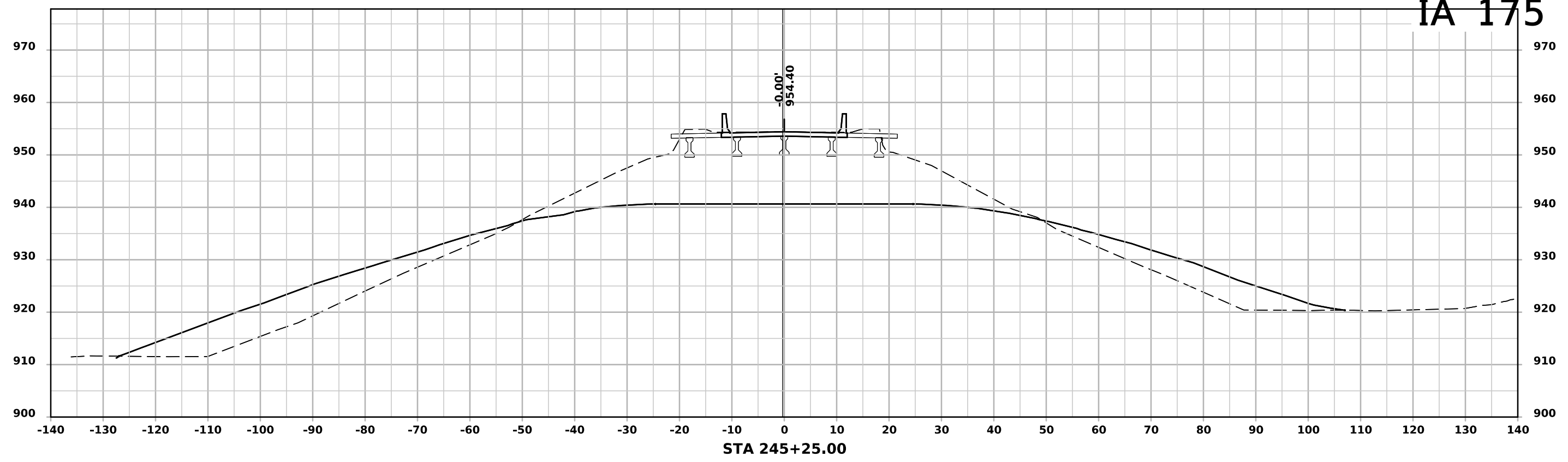


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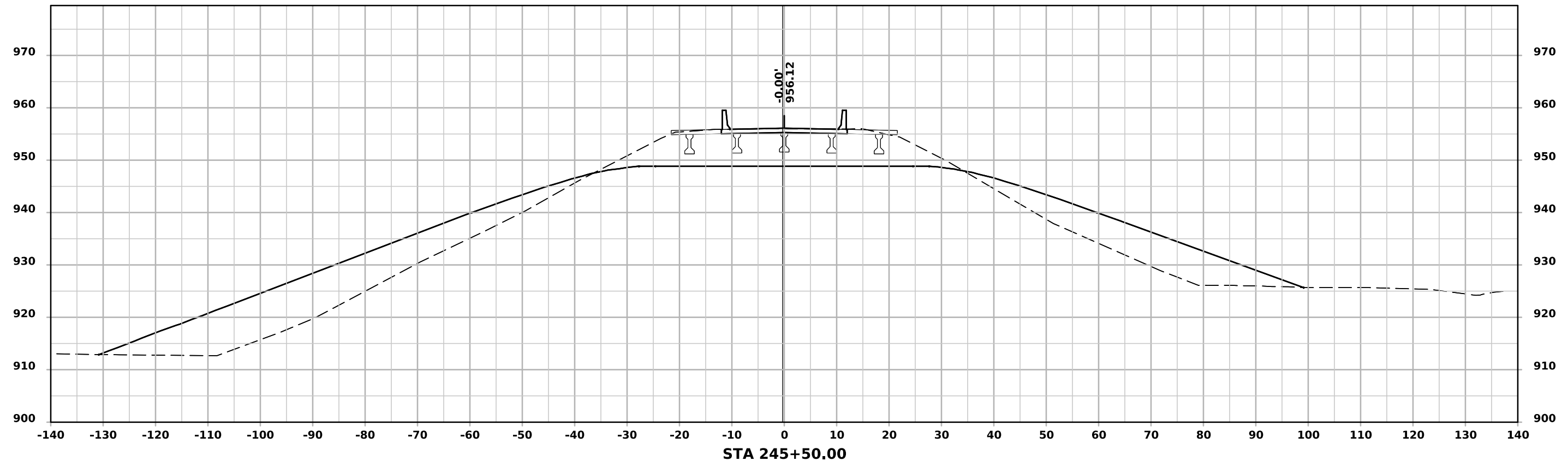
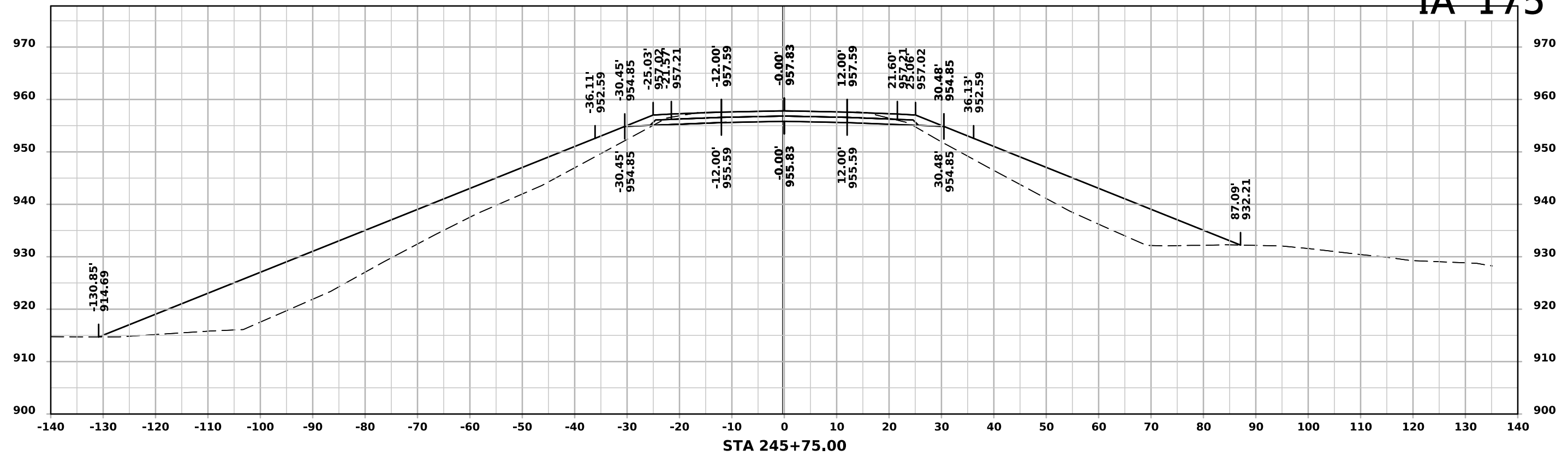




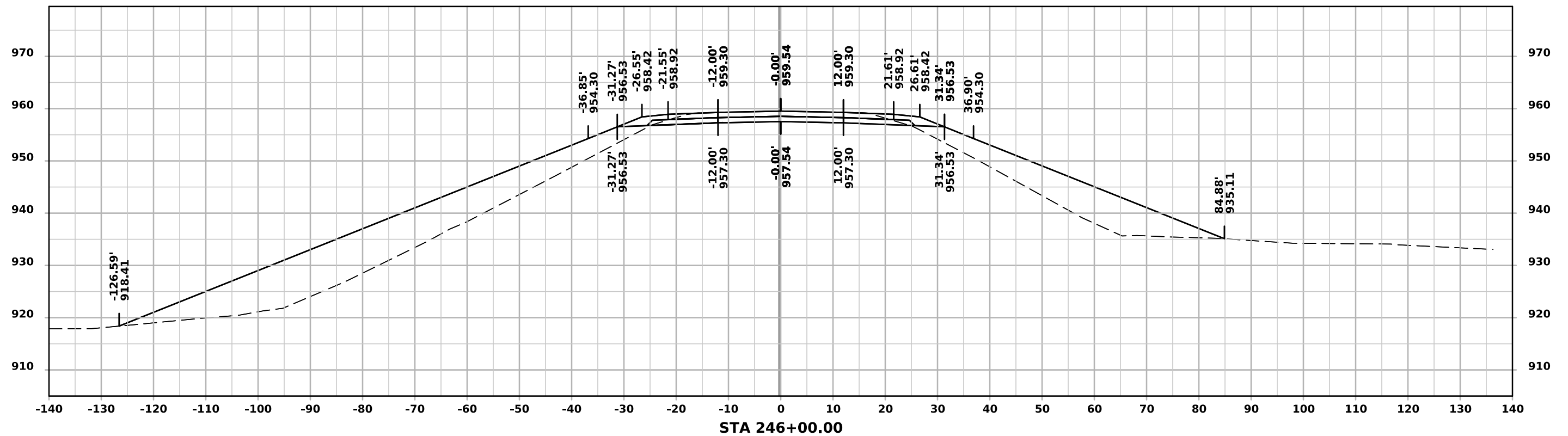
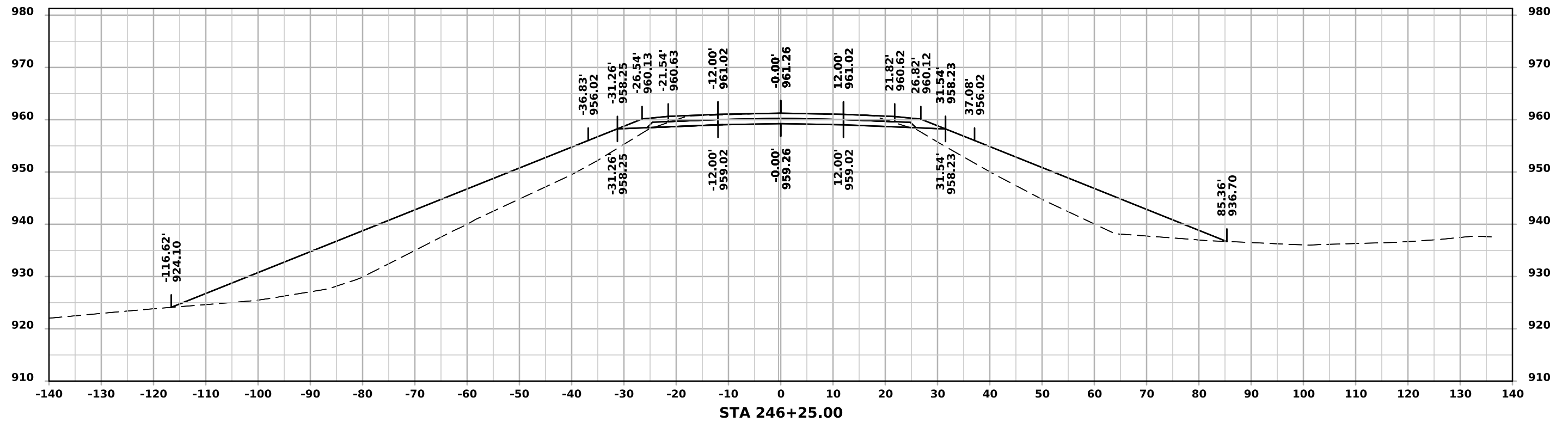
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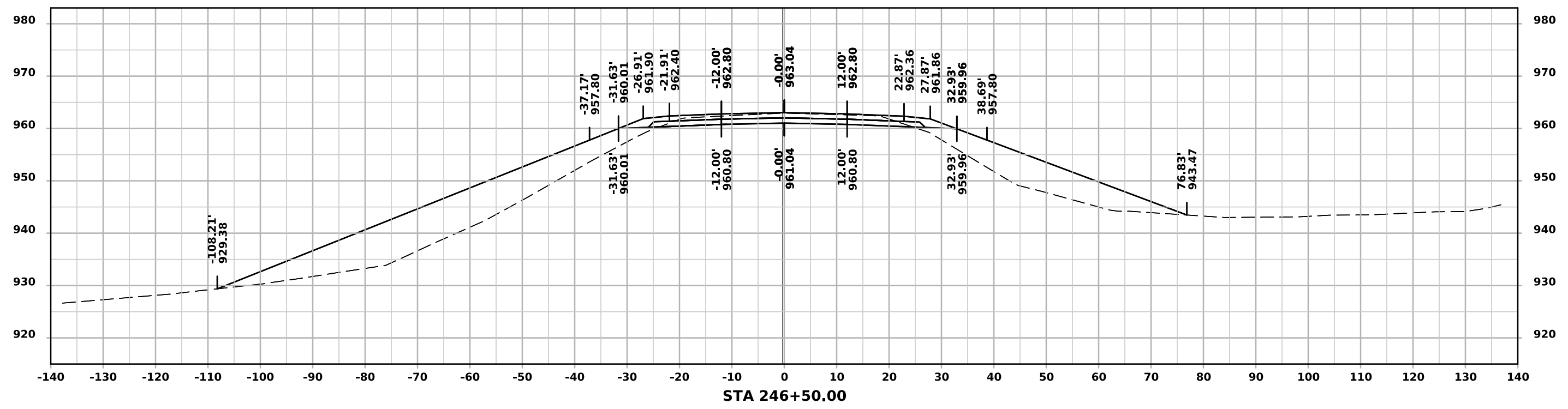
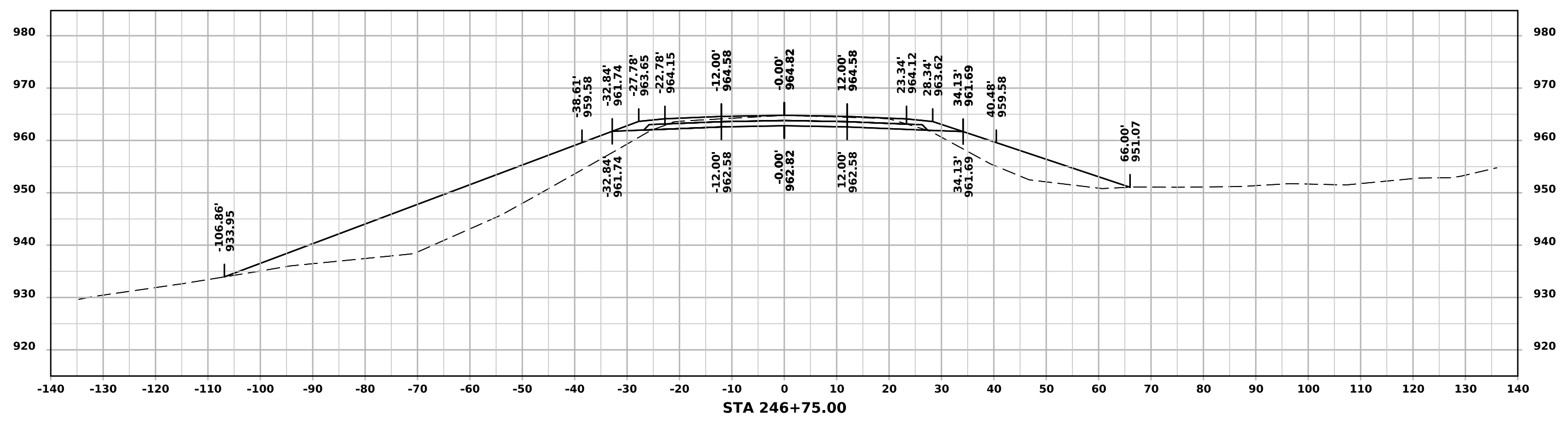
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