LETTING DATE **Oct 16, 2029**

Bridge Replacement-PPCB

IMX-080-2(273)97--02-61

MADISON COUNTY

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A.1	Title Sheet
B Sheets	**Typical Cross Sections and Details**
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D Sheets	**Mainline Plan and Profile Sheets**
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W Sheets	**Mainline Cross Sections**
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W.2 - 15	Side Road P48 Cross Sections

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

INTERSTATE ROAD SYSTEM

MADISON COUNTY

Bridge Replacement-PPCB

At the Co Rd P48 Interchange

SCALES: As Noted

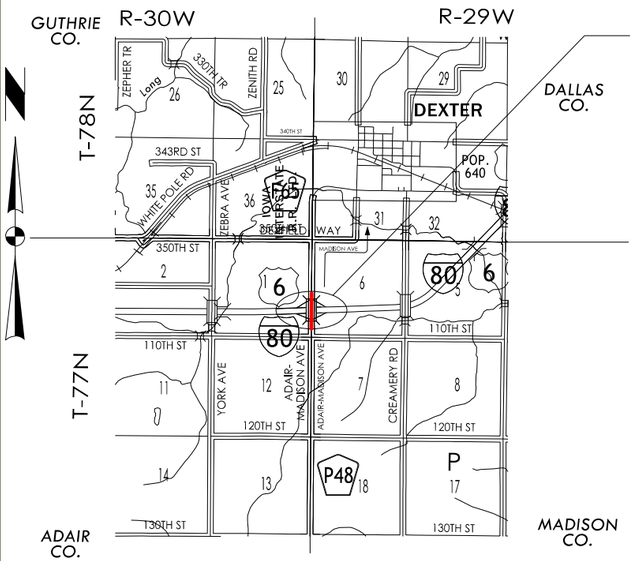
Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.13 of the Specifications.

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811 Know what's below. Call before you dig.

REVISIONS

TOTAL
38
PROJECT IDENTIFICATION NUMBER
23-61-080-010
PROJECT NUMBER
IMX-080-2(273)97--02-61
R.O.W. PROJECT NUMBER
IMN-080-2(282)97--0E-61



PROJECT LOCATION
FHWA # 34830
REF LOC I-80 97.25

P9 PLAN - Date: 4/14/27
D4 PLAN - Date: 6/12/29

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 11/16/26

Scan the QR code or click the link below to leave plan quality feedback and help us improve future projects.

Design QR Feedback Link



DESIGN DATA RURAL			
2028	AADT	29,500	V.P.D.
2048	AADT	34,000	V.P.D.
20 –	DHV	–	V.P.H.
TRUCKS		36	%
Total Design ESALs		–	

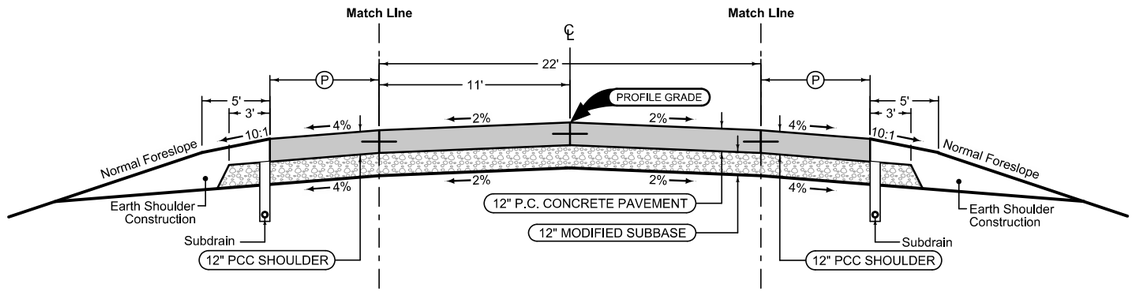
FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER A.1

7:44:45 AM 11/13/2026 jryan3 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6108001023\Design\CADD_Files\Sheet_Files\SHT_61080273_A01.dgn

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
96+13.32	97+02.14	Varies
100+77.14	101+64.57	Varies



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

2P_ 04-21-20	
STATION TO STATION	
95+53.70	97+02.14
100+77.14	102+71.78

Paved Shoulder at Guardrail

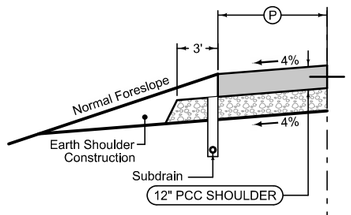
PCC Shoulder Jointing:
Longitudinal joint: BT-1 or BT-5
Transverse joints: C at mainline spacing
HMA Shoulder Jointing:
Longitudinal joint: B

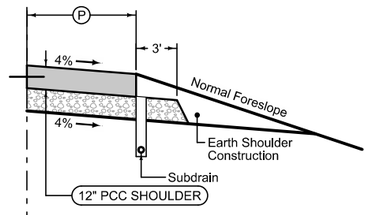
2_P_Guard_ 04-21-20		
STATION TO STATION		(P) Feet
96+14.71	97+02.14	Varies
100+77.14	101+65.96	Varies

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
95+53.70	96+13.32	9
101+64.57	102+71.78	9





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
95+53.70	96+14.71	9
101+65.96	102+71.78	9

Side Road
County Highway P48

FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER B.1

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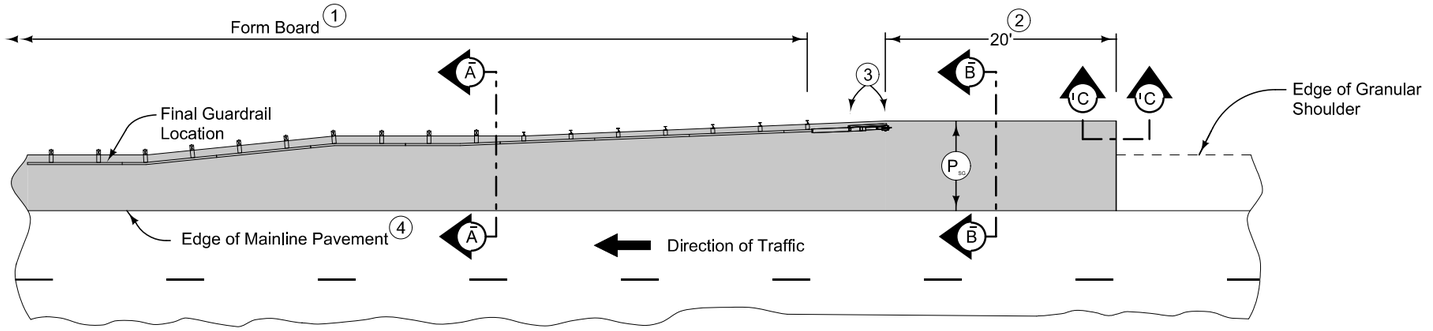
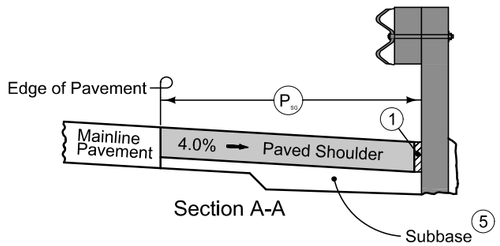
DESIGNER INFORMATION

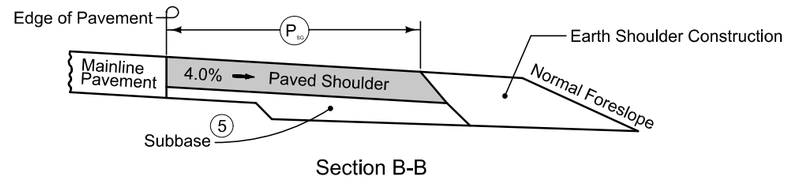
7156
MODIFIED



PLAN VIEW

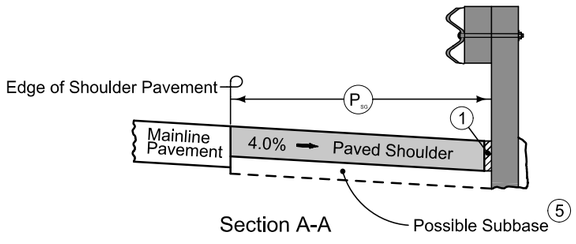


Section A-A

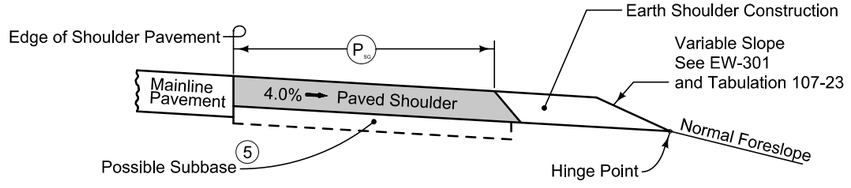


Section B-B

NEW CONSTRUCTION



Section A-A



Section B-B

EXISTING SHOULDER

12" 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.

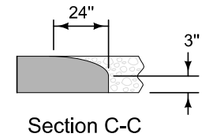
(1) PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for the length shown.

(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.

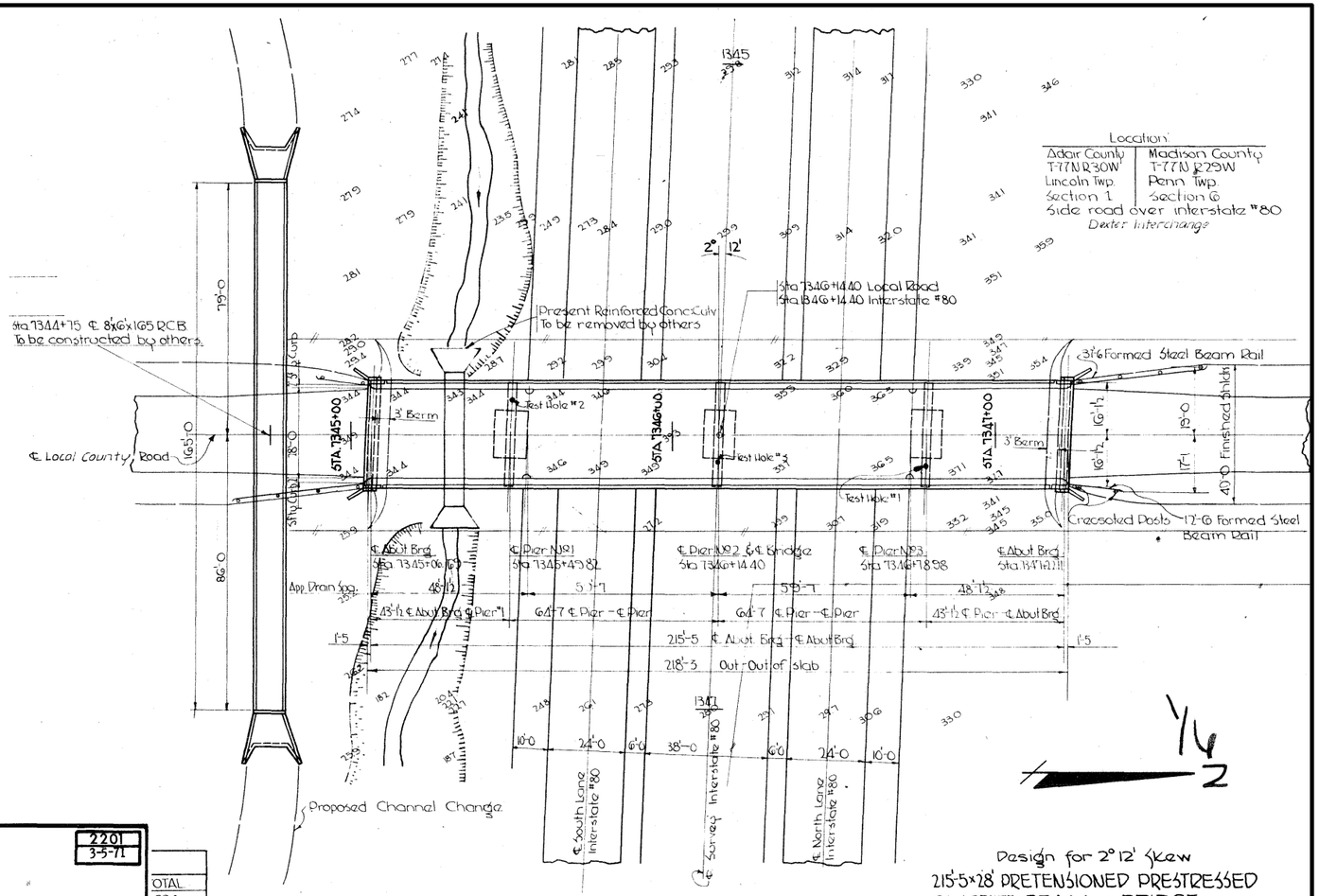
(4) 'BT' joint (per PV-101) for PCC shoulder.
'B' joint (per PV-101) for HMA shoulder.

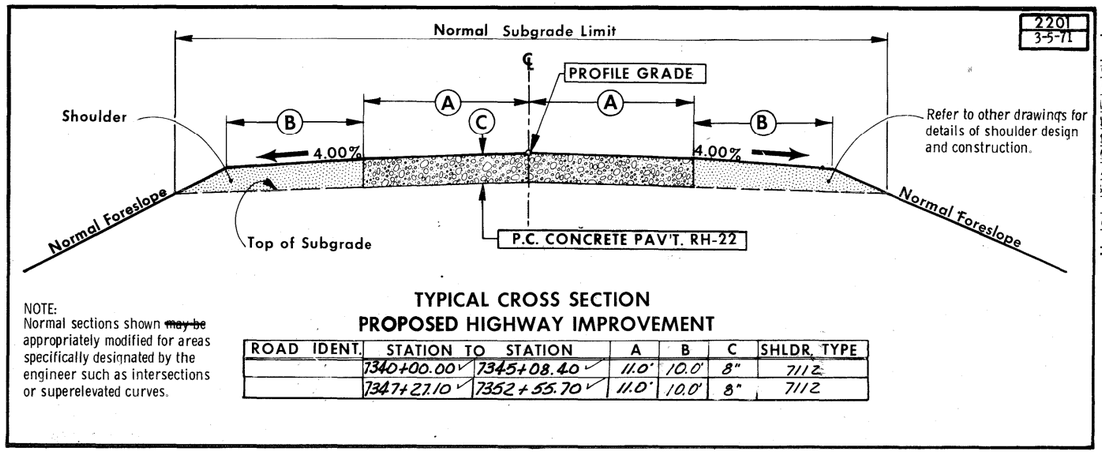
(5) Refer to other details in the plan.



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

PAVED SHOULDER AT GUARDRAIL
(GRANULAR SHOULDER ADJACENT TO MAINLINE)





NOTE:
Normal sections shown ~~may be~~ appropriately modified for areas specifically designated by the engineer such as intersections or superelevated curves.

TYPICAL CROSS SECTION
PROPOSED HIGHWAY IMPROVEMENT

ROAD IDENT.	STATION	TO STATION	A	B	C	SHLDR. TYPE
	7340+00.00	7345+08.40	11.0'	10.0'	8"	7112
	7347+27.10	7352+55.70	11.0'	10.0'	8"	7112

OTAL
890 c.y.
1,713 lbs
114.2 lf
1 Brms
1 Brms
420 lf
116 c.y.
00 lf
12 Posts

FOR INFORMATION ONLY

SURVEY SYMBOLS

- AST, Above Ground Storage Tank
- BB, Billboard
- BBB, Bottom of Bridge Beam
- BCL, Bridge Centerline
- BD, Bridge Deck
- BIN, Grain Bin
- BL, Topo Breakline
- BLD, Building or Foundation
- BLS, Bridge Low Steel
- BM, Bench Mark
- BNK, Stream Bank
- BRG, Bridge
- C, Centerline BL of Road -ML or SR
- CAV, Cave
- CEL, Cell Phone Tower
- CIS, Cistern
- CON, Concrete or A/C Slab
- CP, Control Point
- CRP, Corporation Line
- CS, Curve Point
- CU, Back of Curb
- CUL, Culvert
- D, Centerline Draw or Stream -Down
- DAB, Drainage Area Boundary
- DIK, Centerline of Dike or Dam
- DTM, Photogrammetry Elv Control Check
- DU, Centerline Draw or Stream -Up
- EB, Electrical Box
- EG, Edge of Gravel Road
- ENP, Edge Paved Entrance and Park Lot
- ENT, Centerline BL of Entrance
- ENU, Edge Unpaved Entrance and Parking
- EP, Edge of Paved Roads -ML or SR
- EW, Edge of Water
- FCL, Chain Link and Security Fence
- FENO, FENO Monument
- FHD, Fire Hydrants
- FLG, Flag Poles
- FP, Filler Pipe
- FW, Wire Fence
- FWD, Wood Fence
- GDC, Guard Rail Cable
- GDL, Guard Rail Steel
- GP, Guard Post -Less Than 4 Posts
- GPR, Guard Post -4 or More Posts
- GR, Ground Shot
- GRV, Grave
- GU, Gutter In Front of Curb
- GV, Gas Valve
- HDG, Hedge Row
- HS, Hydric Soil -Wetlands
- HT, Electrical Highline Tower
- IN, Storm Sewer Intake
- INB, Storm Sewer Beehive Intake
- LC, Lot Corner
- LIN, Miscellaneous Line
- LP, L.P. Tank
- LUM, Luminaire
- MH, Utility Access -Manhole
- MIS, Miscellaneous
- MM, Mile Marker Post
- OUT, Tile Outlet
- PC, Curve Point
- PCP, Photo Control Point
- PCT, Photo Control Target
- PI, Tangent Point
- PIP, Pipe Culvert
- PL, Location of Photo -Wetlands
- PLG, Location of General Photo
- POC, Curve Point
- POST, Spiral Point
- PR, Electic Riser Pole
- PRO, Profile Shot
- PT, Curve Point
- REF, Reference Tie Point
- RET, Retaining Walls
- RIP, Rip-Rap
- ROC, Rock Outcropping
- ROW, Right of Way Mark
- RR, Centerline of Railroad Tracks
- RRB, Railroad Signal Box
- RRF, Railroad Frog
- RRR, Railroad Rail
- RRS, Railroad Signal
- RRW, Railroad Switch
- RT, Radio Tower
- S, Soil Sampling Site -Wetlands
- SBR, Size of Bridge
- SC, Spiral Point
- SCR, Section Corner
- SEP, Septic Tank
- SF, Silt Fence -Wetlands
- SG, Staff Gauge -Wetlands
- SH, Paved Shoulder
- SHR, Shrub
- SI, Sign
- SL, Speed Limit Sign
- SLN, Section Line
- SLO, Silo
- SNK, Sink Hole
- SNP, Unpaved Shoulder
- SP, Stream Profile
- STP, Stump
- SWK, Sidewalk
- SWP, Swamp or Marsh
- TA, Tower Anchor
- TBO, Telephone Booth
- TCB, Traffic Signal Box
- TDC, Tree Deciduous
- TDL, Trafic Detection Loop
- TER, Terrace
- TEV, Evergeen Tree
- TFR, Tree Fruit
- TGP, Telegraph Pole
- TIL, Tile Line
- TLNL, Tree Line Left
- TLNR, Tree Line Right
- TOP, Top of Bridge Pier
- TPA, Telephone Pole Co. 1
- TPB, Telephone Pole Co. 2
- TPC, Telephone Pole Co. 3
- TR, Telephone Riser Pole
- TRL, Trail
- TS, Spiral Point
- TSB, Telephone Switch Box
- TSG, Traffic Signal
- TSL, Traffic Signal and Luminare
- TV, Satelite TV Dish
- TVP, TV Pedestal
- TW, Top of Water
- UB, Utility Box
- UE, Utility Elevation
- UPH, Utility Pot Hole - Quality A
- UST, Underground Tank
- UV, Underground Utility Vault
- VS, Channel Cross Section
- WC, Wild Card -Misc. Field Shot
- WEL, Well
- WHD, Water Hydrant
- WHU, RV Water Hook Up
- WM, Wind Mill
- WND, Wind Turbine
- WV, Water Valve

UTILITY LEGEND

E1 — **EL1D, Electric Line Greenfield REC - Quality D**
PPA, Power Pole Greenfield REC

Farmers Electric Cooperative
Greenfield Electric Distribution
David Shike
641-745-5050
dshike@farmersrec.com

E2 — **EL2D, Electric Line Iowa DOT - Quality D**

Iowa DOT
Jason Dale
ITS Maintenance Engineer
Jason.Dale@iowadot.us

F0 — **FO1D, Fiber Optic Mediacom - Quality D**

Mediacom
Jerry Broughton
Construction Supervisor
(845) 587-2521
jbroughton@mediacomcc.com

F02 — **FO2D, Fiber Optic Iowa DOT - Quality D**

Iowa Communication Network/Iowa DOT TOB Fiber
David Augspurger
Sr Telecom Specialist
(515) 229-2013
david.augspurger@icn.state.ia.us

F03 — **FO3D, Fiber Optic ICN - Quality D**

Iowa Communication Network/Iowa DOT TOB Fiber
David Augspurger
Sr Telecom Specialist
(515) 229-2013
david.augspurger@icn.state.ia.us

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design Color No.	
Green	(2)	Existing Topographic Features and Labels
Blue	(1)	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)	Existing Utilities

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

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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

FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER D.1

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Lincoln TWP.
T-77N R-30W
SEC. 01

Lincoln TWP.
T-77N R-30W
SEC. 01

N

I-80 WB

INTERSTATE 80

I-80 EB

6

1341+00

1342+00

1343+00

1344+00

1345+00

1346+00

STA 1342+30.60 (ML080)
BEGIN EB CABLE GUARDRAIL

End Anchor will be attached
to existing Cable Guardrail

Remove Existing High Tension Cable Guardrail

Remove Existing Barrier and Steel Beam Guardrail

STA 1341+68.18 (ML080)
BEGIN EB MEDIAN TBR

STA 1342+29.52 (ML080)
BEGIN EB OUTSIDE TBR

(UAC)
15"x19'
C.M.P.

STA 1346+02.63 (ML080)
BEGIN WB CABLE GUARDRAIL

Sta. 1344+00.1
30"x193' RCP
D.A.=13Ac R

Sta. 1346+14.4
215'-5x28'-0
Pretensioned
Prestressed
Concrete
Beam Bridge

Sta. 1344+00.1
30"x193' RCP
D.A.=13Ac R
(UAC)

Sta. 98+89.64
215'-5x28'-0
Pretensioned
Prestressed
Concrete
Beam Bridge
(REMOVE)

Sta. 98+89.64
232'-0"x40'-0"
2° Skew RA
PCBB
Design No. 128
(BUILD)

Co Rd P48

E2

0 20
FEET

I-80

FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER D.2

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Imagery ©2026 Airbus, Maxar Technologies

Remove Existing Barrier and Steel Beam Guardrail

Penn TWP.
T-77N R-29W
SEC. 06

Penn TWP.
T-77N R-29W
SEC. 06

1346+00
1347+00
1348+00
1349+00
1350+00
1351+00

I-80 WB
INTERSTATE
80

End Anchor will
be attached to
existing Cable Guardrail

02.63 (ML080)
E GUARDRAIL

Remove Existing High Tension Cable Guardrail

STA 1346+30.98 (ML080)
END EB CABLE GUARDRAIL

SR Sta. 97+50.32
8'x6'x165' RCB

Sta. 1348+99.9
30"x188' RCP
D.A.=11Ac R

6
I-80 EB

STA 1349+98.59 (ML080)
END WB CABLE GUARDRAIL

Sta. 1348+99.9
30"x188' RCP
D.A.=11Ac R
(UAC)

SR Sta. 97+50.32
8'x6'x165' RCB
Design No. 430'
(EXTEND)

Co Rd P48

0 20
FEET

I-80

FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER D.3

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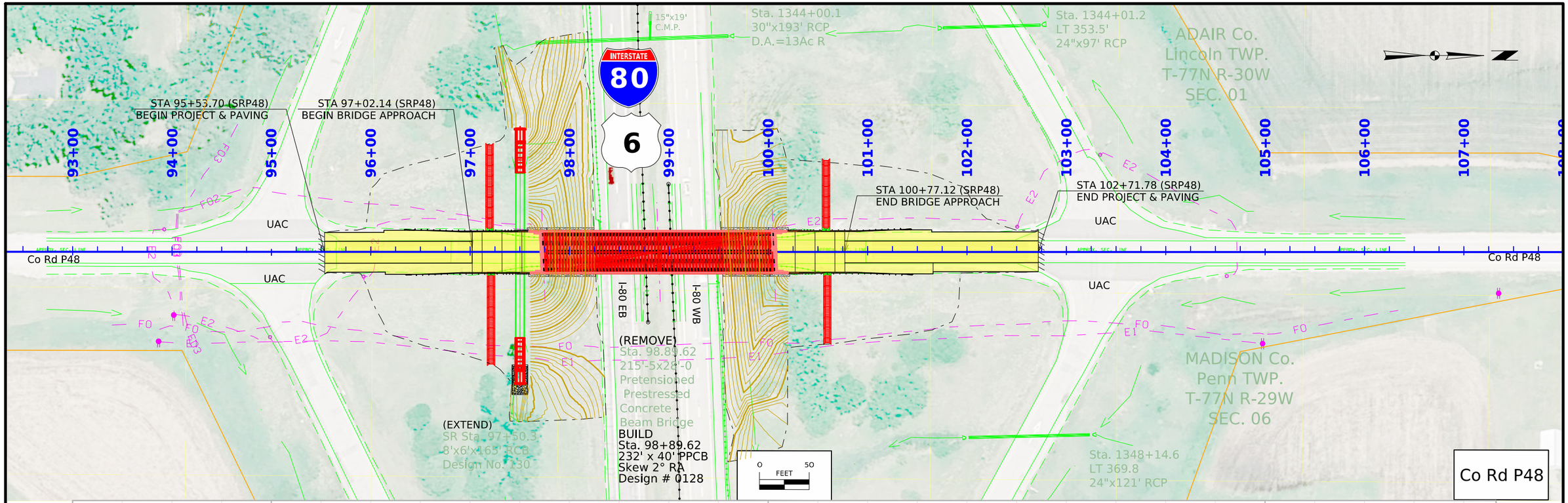
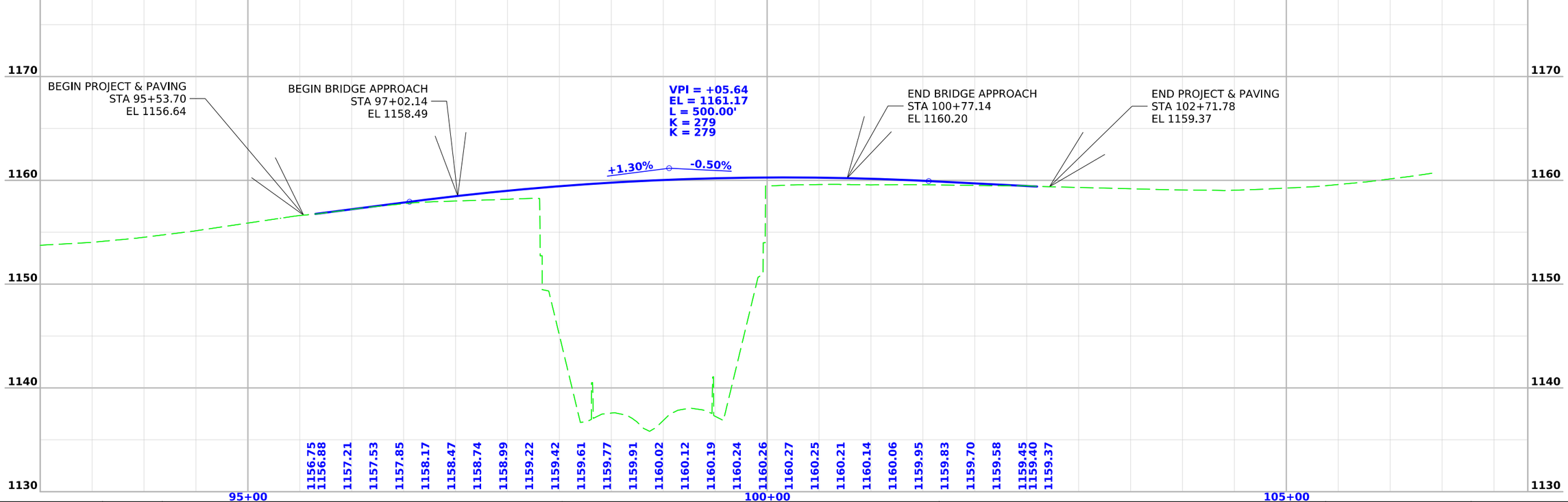
Imagery ©2026 Airbus, Maxar Technologies





FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER E.1

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SURVEY INDEX

County: Madison
Project Code: 23-61-080-010
Phase Number: IMX-080-2(273)97--02-61
Location: At the Co Rd P48 Interchange
Work Code: 2001-Bridge-Unspecified
Project Directory: 6108001023

Survey Personnel

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

Date(s) of Survey

Begin Date	09/22/2025
End Date	12/17/2025

General Information

This survey is for County Road P-48 bridge replacement over I-80. 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 08 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for County Road P-58 was provided by the Dallas County Engineers Office.

The horizontal alignment for I-80 this survey is a retrace of As-built Plans No. 80-2(12)96. Survey stationing was equated to the plan POT at Sta. 1346+14.4 and carried back and ahead with/without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PI Sta. 1319+79.4 As-built Plans Project No. 80-2(12)96
Survey POT Sta. 1319+80.45

POT Sta. 1346+14.4 As-built Plans Project No. 80-2(12)96
Survey POT Sta. 1346+14.4

POT Sta. 1369+18.50 As-built Plans Project No. 80-2(12)96
Survey POT Sta. 1369+19.17

TS Sta. 1390+16.15 As-built Plans Project No. 80-2(12)96
Survey TS Sta. 1390+15.46

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 08 (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 08 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code Description
FENO01	7452088.27	18356143.73	1162.78	CP Set Feno Monument
FENO02	7452697.29	18351025.01	1126.07	CP Set Feno Monument
FENO03	7446812.56	18356606.55	1172.22	CP Set Feno Monument
G107	7457143.80	18371735.51	1108.27	CP Found County Monument
G108	7457455.89	18356250.89	1152.22	CP Found County Monument

111_01

10/14/22

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
IMX-080-2(289)97--02-61	Lighting

108_23A
8/15/22

TRAFFIC CONTROL PLAN

I-80
Maintain traffic at all times during construction.
Utilize standard road plan TC-454 during bridge removal and bridge beam setting.

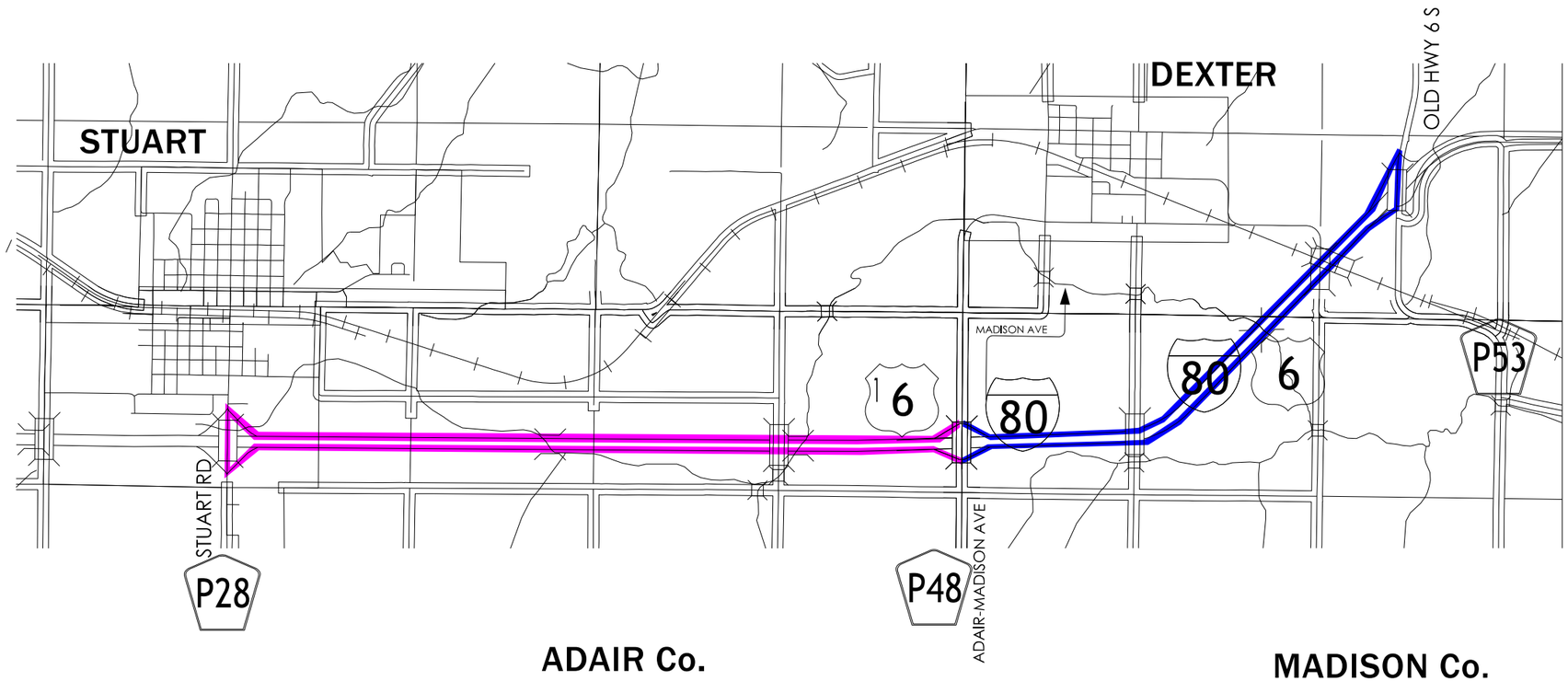
Country Road P48
Road will be closed during construction.
Traffic will be maintained by an off-site detour. See Sheet J.4 for detour route.

11/16/2026 2:50:52 PM jonathan.ryan@iowadot.us

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
1.0	Co Rd P48	Both	Madison	Bridge over I-80 at Co Rd P48	I-80	Bridge	34830	Vertical	22'	0'	Closed		

DETOUR



LOCATION MAP SCALE

0 1 2 3

Miles

P48 NORTHBOUND DETOUR ROUTE
P48 SOUTHBOUND DETOUR ROUTE

FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER J.4

7:56:29 AM 2/16/2026 jryan3 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6108001023\Design\CADD_Files\Sheet_Files\SHT_61080273_J01.dgn

Version Date
10 February 2023

I-80 from Exit 8 to Exit 110
Nighttime Closures Only
Lane closures allowed Sun through Thurs: 6 PM - 6 AM
No lane closures Fri 6 AM through Sun 6 PM

No shoulder closures during peak commuter periods
Mon - Fri: 6 AM - 9 AM and 3 PM - 6 PM

Allowable Interstate Lane and Shoulder Closure Map Iowa DOT District 4

HARRISON
SHELBY
AUDUBON
GUTHRIE
DALLAS
MADISON
POTTAWATTAMIE
CASS
ADAIR
MILLS
MONTGOMERY
ADAMS
UNION
CLARKE
FREMONT
PAGE
TAYLOR
RINGGOLD
DECATUR

PISGAH
DUNLAP
MANNING
DEFIANCE
COON RAPIDS
BAGLEY
BAYARD
EARLING
MAGNOLIA
WOODBINE
PANAMA
AUDUBON
MINBURN
GRANGER
DALLAS CENTER
JOHNSTON
MONDAMIN
HARLAN
GRIMES
URBANDALE
CLIVE
ADEL
LOGAN
PORTSMOUTH
KIMBALLTON
EXIRA
GUTHRIE CENTER
PANORA
WAUKEE
PERSIA
ELK HORN
MISSOURI VALLEY
SHELBY
BRAYTON
ADAIR
STUART
DE SOTO
WEST DES MOINES
AVOCA
WALNUT
MARNE
ANITA
NEOLA
HANCOCK
ATLANTIC
WIOTA
CARTER LAKE
OAKLAND
FONTANELLE
WINTERSET
BEVINGTON
TREYNOR
CARSON
GRISWOLD
MASSENA
COUNCIL BLUFFS
GLENWOOD
CRESTON
PACIFIC JUNCTION
HASTINGS
EMERSON
RED OAK
CORNING
AFTON
THAYER
OSCEOLA
STANTON
VILLISCA
ARISPE
TABOR
ESSEX
CLEARFIELD
SIDNEY
SHENANDOAH
CLARINDA
NEW MARKET
MOUNT AYR
SHAMBAUGH
BEDFORD
BENTON
HAMBURG
BRADDYVILLE
REDDING
ELLIOTT
GRANT

Lincoln TWP.
T-77N R-30W
SEC. 01

Lincoln TWP.
T-77N R-30W
SEC. 01

N

STA 1345+38.31 (ML080)
BEGIN WB MEDIAN TBR

STA 1345+37.09 (ML080)
BEGIN WB OUTSIDE TBR

1341+00

1342+00

1343+00

1344+00

1345+00

1346+00

I-80 WB

INTERSTATE 80

6

I-80 EB

(UAC)
15"x19'
C.M.P.

Sta. 1344+00.1
30"x193' RCP
D.A.=13Ac R

Sta. 1346+14.4
215'-5x28'-1"
Pretensioned
Prestressed
Concrete
Beam Bridge

STA 1341+68.18 (ML080)
BEGIN EB MEDIAN TBR

STA 1342+29.52 (ML080)
BEGIN EB OUTSIDE TBR

Sta. 1344+00.1
30"x193' RCP
D.A.=13Ac R
(UAC)

Sta. 98+89.64
215'-5x28'-0
Pretensioned
Prestressed
Concrete
Beam Bridge
(REMOVE)

Sta. 98+89.64
232'-0"x40'-0"
2° Skew RA
PCBB
Design No. 128
(BUILD)

Co Rd P48

0 20
FEET

I-80

FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER J.6

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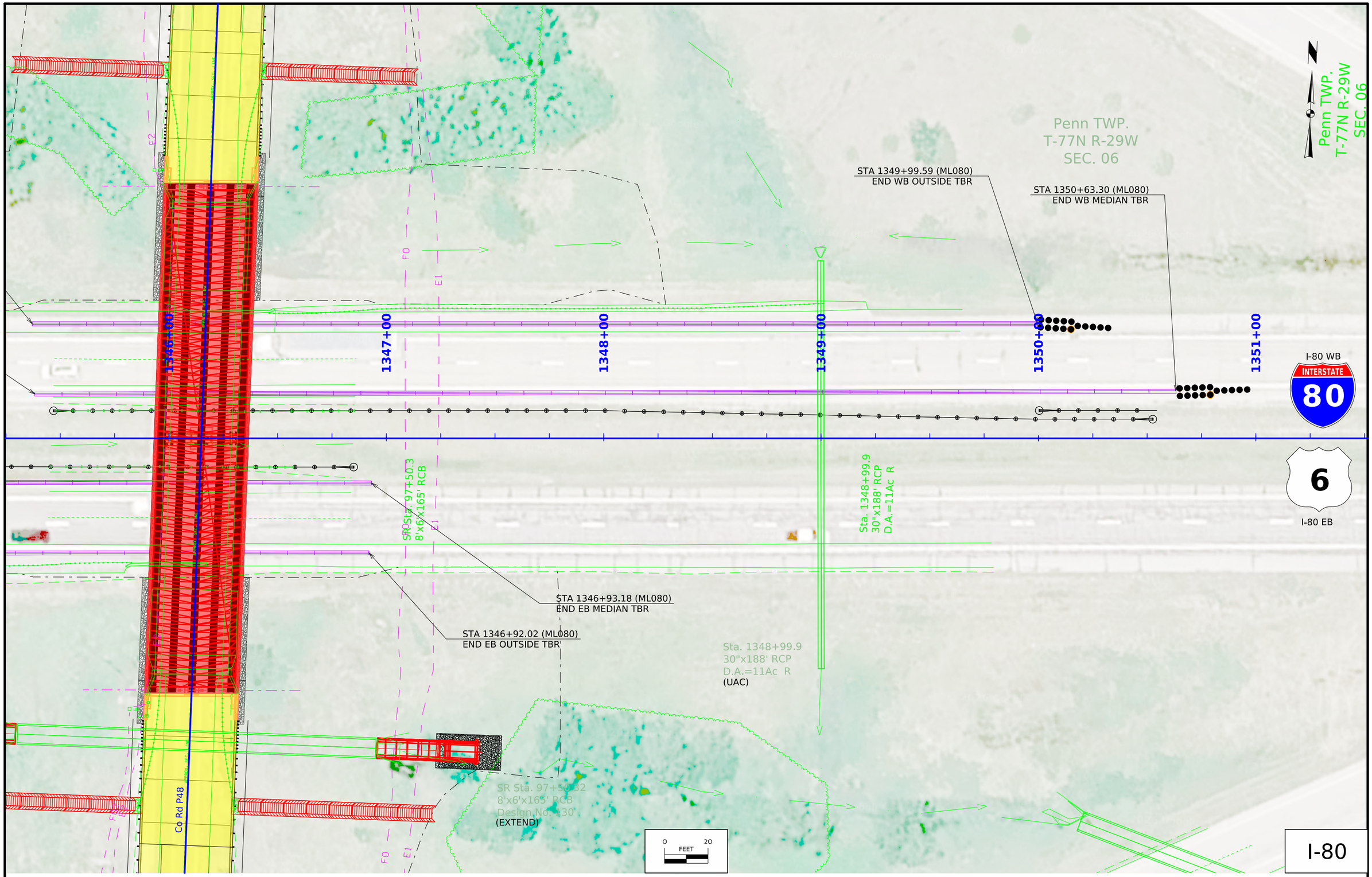
Imagery ©2026 Airbus, Maxar Technologies



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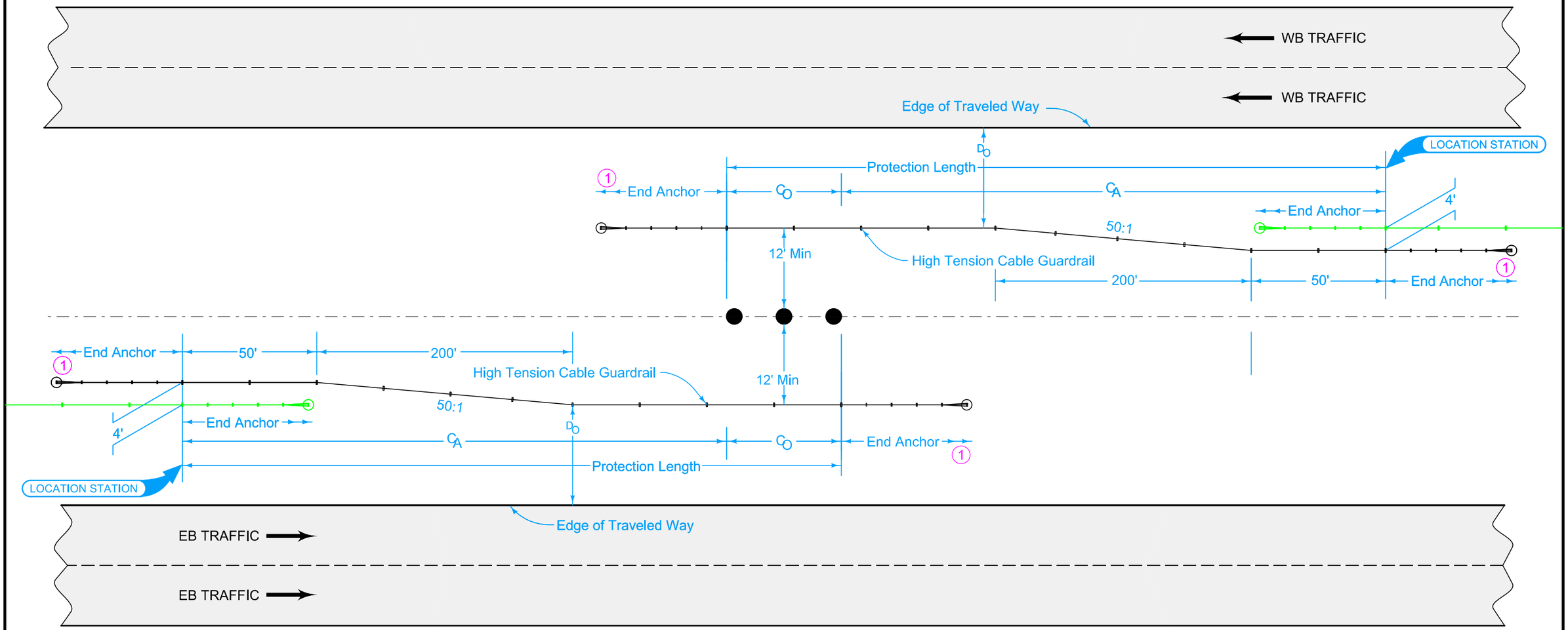
Imagery ©2026 Airbus, Maxar Technologies



MEDIAN OBJECT PROTECTION

(1) Length varies depending on High Tension Cable Guardrail system.

MODIFIED

MODIFICATIONS: Median Cable Layout following Bridge Pier work

HIGH TENSION CABLE GUARDRAIL

BA-351

FILE NO. **32572**	ENGLISH	DESIGN TEAM **MILLER / FINCH / RYAN**	**MADISON** COUNTY	PROJECT NUMBER **IMX-080-2(273)97--02-61**	SHEET NUMBER **U.1**

8:24:40 AM 4/2/2026 jryan3 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6108001023\Design\CADD_Files\Sheet_Files\SHT_61080273_U01.dgn

Control Point FENO01: 7452088.274 N,18356143.730 E, CP Set Feno Monument, Elev. = 1162.776

Traffic Estimate

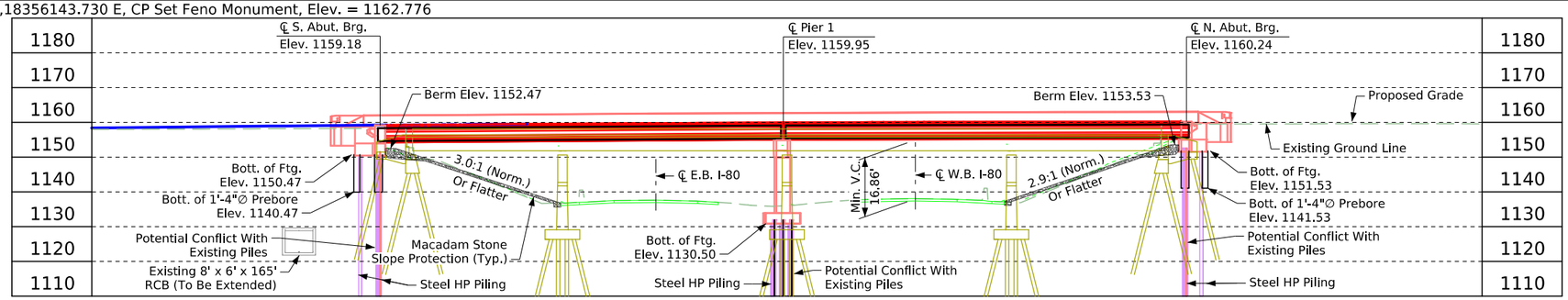
(I-80)

2028 AADT	29,500 V.P.D.
2048 AADT	34,000 V.P.D.
20-- DHV	--- V.P.H.
TRUCKS	36 %
Total Design ESALs	---

Traffic Estimate

(P48)

2024 AADT	290 V.P.D.
2044 AADT	--- V.P.D.
20-- DHV	--- V.P.H.
TRUCKS	2 %
Total Design ESALs	---



+1.296% -0.498%

VPI Sta. 99+05.64
VC = 500'
VPI Elev. 1161.17

Proposed Profile Grade P48

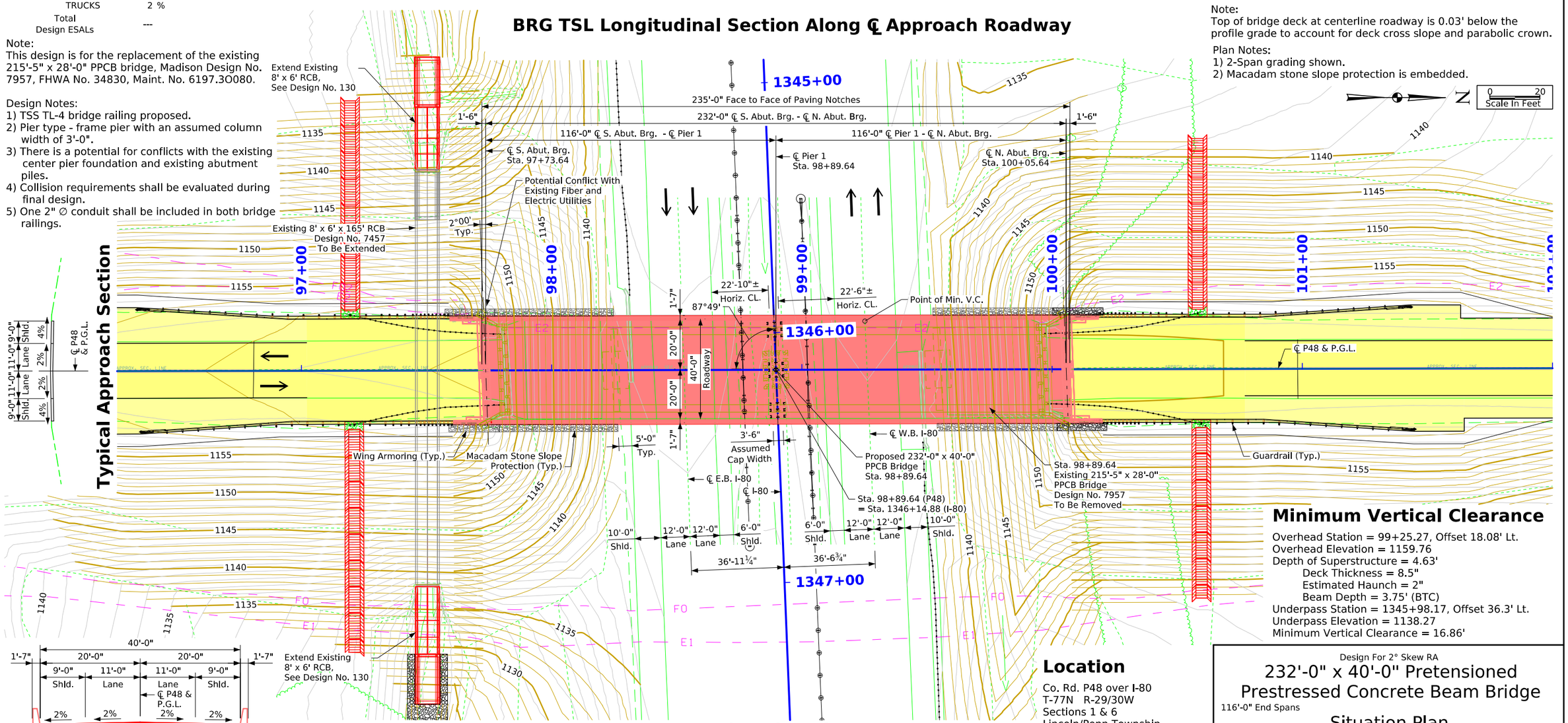
Note:
This design is for the replacement of the existing 215'-5" x 28'-0" PPCB bridge, Madison Design No. 7957, FHWA No. 34830, Maint. No. 6197.3O080.

Design Notes:
1) TSS TL-4 bridge railing proposed.
2) Pier type - frame pier with an assumed column width of 3'-0".
3) There is a potential for conflicts with the existing center pier foundation and existing abutment piles.
4) Collision requirements shall be evaluated during final design.
5) One 2" ∅ conduit shall be included in both bridge railings.

BRG TSL Longitudinal Section Along ℄ Approach Roadway

Note:
Top of bridge deck at centerline roadway is 0.03' below the profile grade to account for deck cross slope and parabolic crown.

Plan Notes:
1) 2-Span grading shown.
2) Macadam stone slope protection is embedded.



Typical Approach Section

Typical Deck Section

General Utility Symbols:

E1 - Greenfield REC
E2 - Iowa DOT
FO - Mediacom
FO2 - Iowa DOT
FO3 - ICN
- Greenfield REC

Utilities Note:

Utilities shown on this sheet are for information only.
See Road Design sheets for utility information.

Situation Plan

Minimum Vertical Clearance

Overhead Station = 99+25.27, Offset 18.08' Lt.
Overhead Elevation = 1159.76
Depth of Superstructure = 4.63'
Deck Thickness = 8.5"
Estimated Haunch = 2"
Beam Depth = 3.75' (BTC)
Underpass Station = 1345+98.17, Offset 36.3' Lt.
Underpass Elevation = 1138.27
Minimum Vertical Clearance = 16.86'

Location

Co. Rd. P48 over I-80
T-77N R-29/30W
Sections 1 & 6
Lincoln/Penn Township
Adair/Madison County
FHWA No. 34831
Bridge Maint. No. 6197.3O080
Latitude 41.493424°
Longitude -94.241549°

Design For 2° Skew RA

232'-0" x 40'-0" Pretensioned Prestressed Concrete Beam Bridge

116'-0" End Spans

Situation Plan

STA. 98+89.64 (P48)

Turn-in Date: Oct 2026

Madison County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 128 | Design Sheet No. 1 of 2 | FHWA No. 034831

FILE NO. **32572**	ENGLISH	DESIGN TEAM **Foth**	**Madison** COUNTY	PROJECT NUMBER **IMX-080-2(273)97--02-61**	SHEET NUMBER V.1	

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Control Point FENO01: 7452088.274 N,18356143.730 E, CP Set Feno Monument, Elev. = 1162.776

Berm Slope Location Table

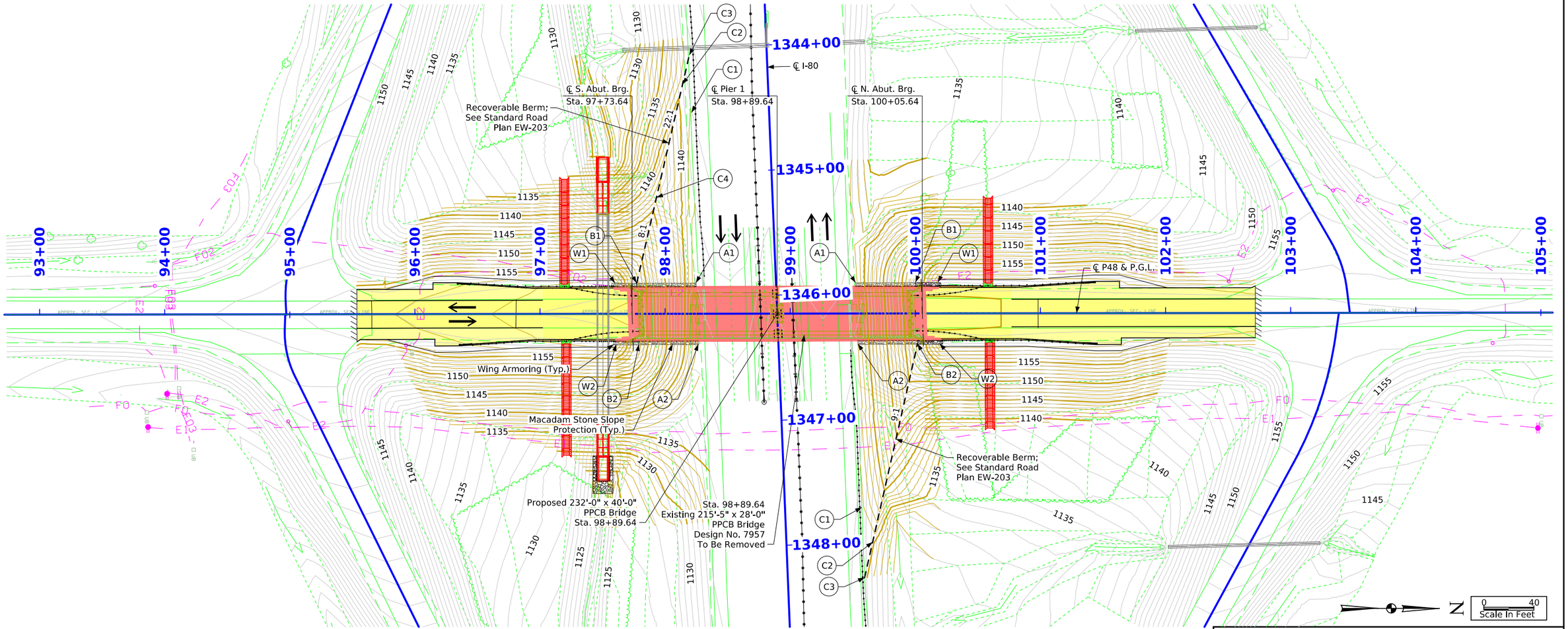
Points	South Abutment			North Abutment		
	Station	Offset	Elev.	Station	Offset	Elev.
A1	98+24.75	24.58' Lt.	1137.14	99+52.33	24.58' Lt.	1137.59
A2	98+26.53	24.58' Rt.	1136.39	99+54.11	24.58' Rt.	1136.99
B1	97+77.28	24.58' Lt.	1152.47	100+00.28	24.58' Lt.	1153.53
B2	97+79.00	24.58' Rt.	1152.47	100+02.00	24.58' Rt.	1153.53
W1	97+59.44	24.58' Lt.	1158.53	100+18.44	24.58' Lt.	1159.72
W2	97+60.84	24.58' Rt.	1158.54	100+19.84	24.58' Rt.	1159.72

Berm slope elevations reflect the grading surface.

Recoverable Berm Location Table

Points	South Abutment			North Abutment		
	Station	Offset	Elev.	Station	Offset	Elev.
C1	98+20.87	161.34' Lt.	1138.94	99+57.02	155.03' Rt.	1135.73
C2	98+13.72	184.03' Lt.	1139.44	99+65.71	182.79' Rt.	1135.22
C3	98+19.02	208.04' Lt.	1139.64	99+59.22	211.11' Rt.	1135.36
C4	97+92.87	92.82' Lt.	1143.72	--	--	--
B	97+77.28	24.58' Lt.	1152.47	100+02.00	24.58' Rt.	1153.53

Refer to Standard Road Plan EW-203.



Site Plan

Design For 2° Skew RA

232'-0" x 40'-0" Pretensioned Prestressed Concrete Beam Bridge

116'-0" End Spans

Situation Plan - Site

STA. 98+89.64 (P48)

Turn-in Date: Oct 2026

Madison County

IOWA DEPARTMENT OF TRANSPORTATION

Design No. 128 | Design Sheet No. 2 of 2 | FHWA No. 034831

FILE NO. 32572	ENGLISH	DESIGN TEAM Foth	Madison COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER V.2

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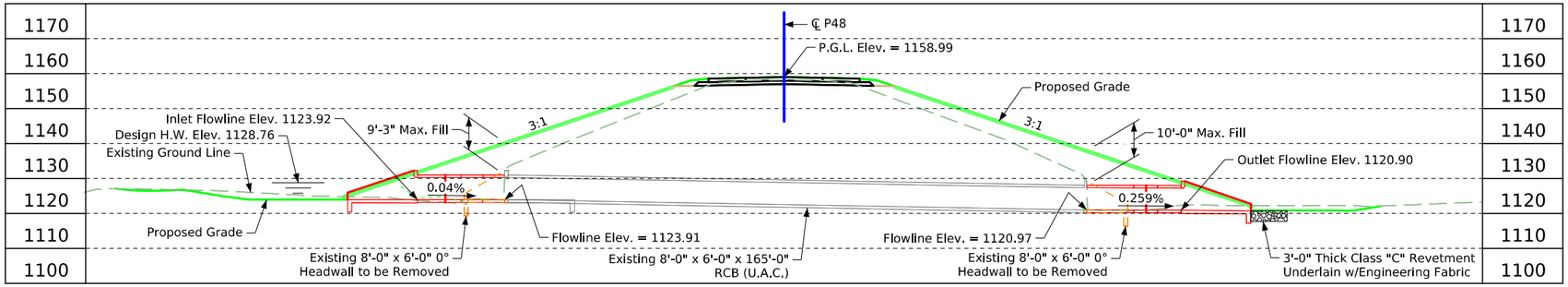
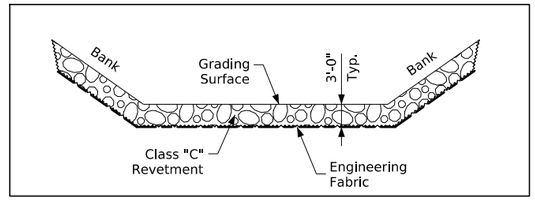
Control Point FENO01: 7452088.274 N,18356143.730 E, CP Set Feno Monument, Elev. = 1162.776





Typical Channel Protection

Estimated Revetment Quantities Included With Road Plans

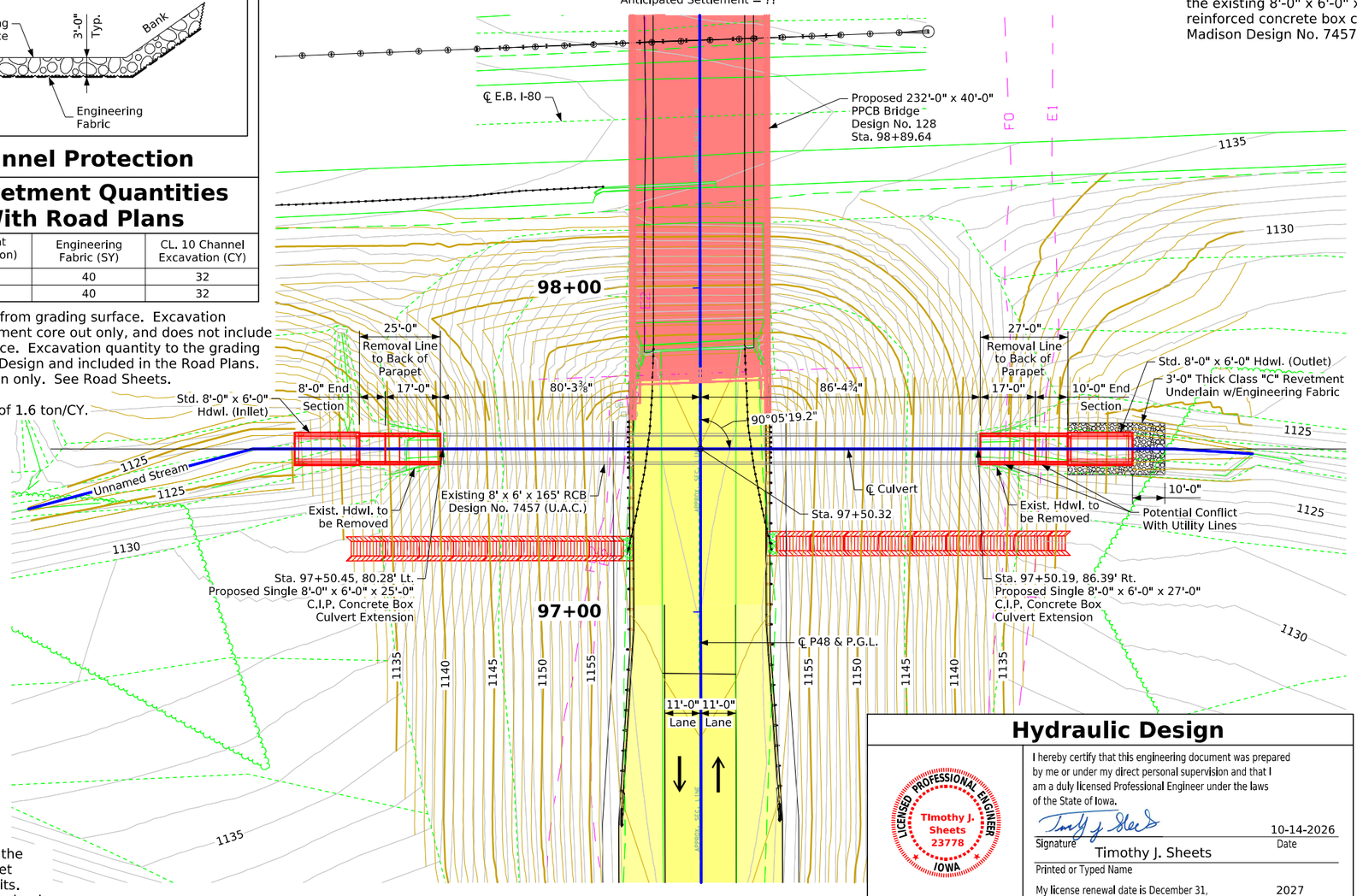
Location	Revetment Class "C" (Ton)	Engineering Fabric (SY)	CL. 10 Channel Excavation (CY)
Outlet	51	40	32
Totals	51	40	32

Excavation quantity calculated from grading surface. Excavation quantity is for embedded revetment core out only, and does not include excavation to the grading surface. Excavation quantity to the grading surface is determined by Road Design and included in the Road Plans. Quantities shown for information only. See Road Sheets.

Revetment based on a density of 1.6 ton/CY.

Longitudinal Section Along ℄ Culvert

Design Fill Height = 10'-0"
Anticipated Settlement = ??



Situation Plan

Design Notes:
1) Revetment is proposed at the culvert outlet due to the outlet velocity exceeding policy limits.
2) Excavation for channel shaping is estimated to be 40 CY of Cut and 10 CY of Fill.

General Note:
This design is for the extension of the existing 8'-0" x 6'-0" x 165'-0" reinforced concrete box culvert, Madison Design No. 7457.

Hydraulic Design

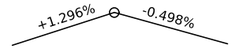
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Timothy J. Sheets 23778 — Licensed Professional Engineer — Iowa

Signature — Timothy J. Sheets — Printed or Typed Name — 10-14-2026 — Date

My license renewal date is December 31, 2027

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



VPI Sta. 99+05.64
VC = 500'
VPI Elev. 1161.17

Proposed Profile Grade P48

Traffic Estimate

(P48)

2024 AADT	290 V.P.D.
2044 AADT	--- V.P.D.
20-- DHV	--- V.P.H.
TRUCKS	2 %
Total Design ESALs	---

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 143.4 Acres
Stream Slope = Hilly/Rolling
Land Use = Mixed Cover
Q_{50} = 222 cfs
HW Elev. = 1128.76
Exit Velocity = 15.49 fps

Utilities Note:

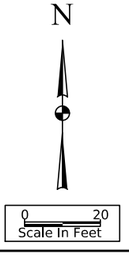
Utilities shown on this sheet are for information only. See Road Design sheets for utility information.

General Utility Symbols:

E1, E2 - Electric Line
FO, FO2 - Fiber Optic Line

Location

Co. Rd. P48 over I-80
T-77N R-29/30W
Sections 1 & 6
Lincoln/Penn Township
Adair/Madison County
Asset No. 901100
Latitude 41.493043°
Longitude -94.2415470°



Design For 0 Degree Skew

8'-0" x 6'-0" Reinforced Concrete Box Culvert Extension

Situation Plan

STA. 97+50.32 (P48)
Turn-in Date: Oct 2026

Madison County
IOWA DEPARTMENT OF TRANSPORTATION

Design No. 130 | Design Sheet No. 1 of 2 | FHWA/Asset 901100

FILE NO. 32572	ENGLISH	DESIGN TEAM Foth	Madison COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER V.3

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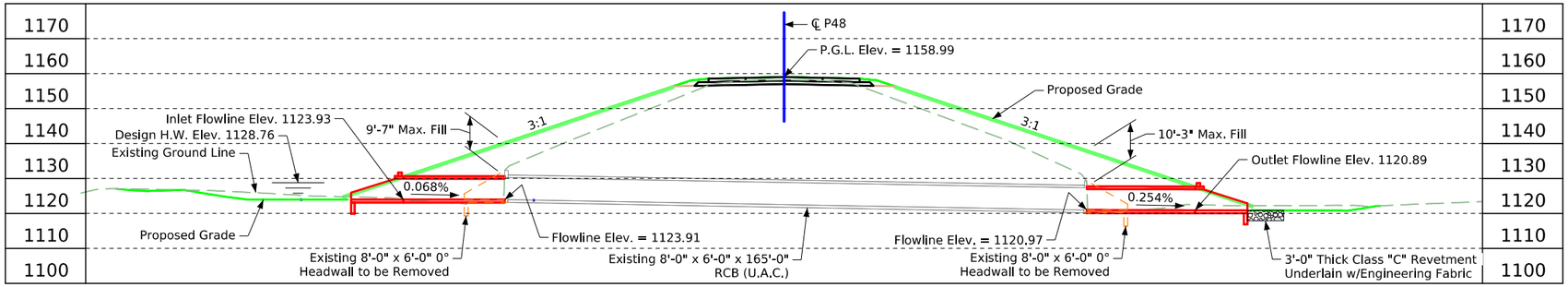
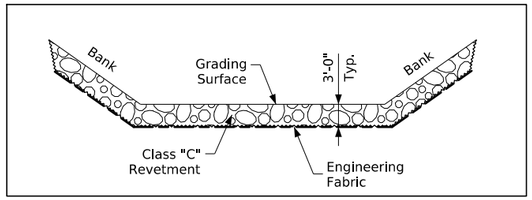
Control Point FENO01: 7452088.274 N,18356143.730 E, CP Set Feno Monument, Elev. = 1162.776





Typical Channel Protection

Estimated Revetment Quantities Included With Road Plans

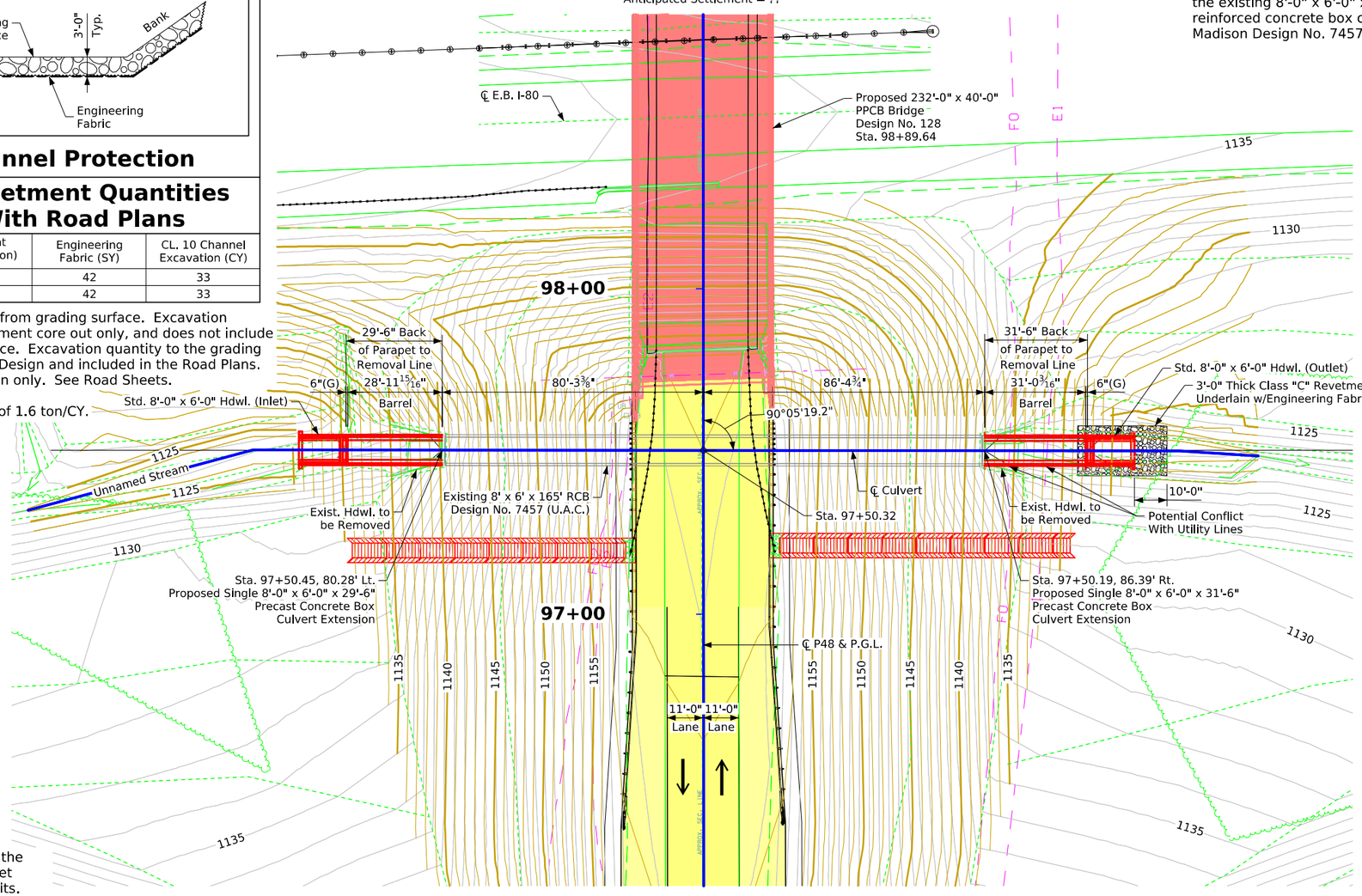
Location	Revetment Class "C" (Ton)	Engineering Fabric (SY)	CL. 10 Channel Excavation (CY)
Outlet	53	42	33
Totals	53	42	33

Excavation quantity calculated from grading surface. Excavation quantity is for embedded revetment core out only, and does not include excavation to the grading surface. Excavation quantity to the grading surface is determined by Road Design and included in the Road Plans. Quantities shown for information only. See Road Sheets.

Revetment based on a density of 1.6 ton/CY.

Longitudinal Section Along ℄ Culvert

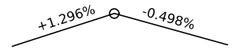
Design Fill Height = 11'-0"
Anticipated Settlement = ??



Situation Plan

General Note:
This design is for the extension of the existing 8'-0" x 6'-0" x 165'-0" reinforced concrete box culvert, Madison Design No. 7457.

Design Notes:
1) Revetment is proposed at the culvert outlet due to the outlet velocity exceeding policy limits.
2) Excavation for channel shaping is estimated to be 40 CY of Cut and 10 CY of Fill.



VPI Sta. 99+05.64
VC = 500'
VPI Elev. 1161.17

Proposed Profile Grade P48

Traffic Estimate

(P48)

2024 AADT	290 V.P.D.
2044 AADT	--- V.P.D.
20-- DHV	--- V.P.H.
TRUCKS	2 %
Total Design ESALs	---

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 143.4 Acres
Stream Slope = Hilly/Rolling
Land Use = Mixed Cover
Q_{50} = 222 cfs
HW Elev. = 1128.76
Exit Velocity = 15.49 fps

Utilities Note:

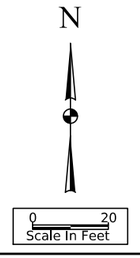
Utilities shown on this sheet are for information only. See Road Design sheets for utility information.

General Utility Symbols:

E1, E2 - Electric Line
FO, FO2 - Fiber Optic Line

Location

Co. Rd. P48 over I-80
T-77N R-29/30W
Sections 1 & 6
Lincoln/Penn Township
Adair/Madison County
AssetNo. 901100
Latitude 41.493043°
Longitude -94.2415470°



Design For 0 Degree Skew

8'-0" x 6'-0" Precast Concrete Box Culvert Extension

Situation Plan

STA. 97+50.32 (P48)
Turn-in Date: Oct 2026

Madison County
IOWA DEPARTMENT OF TRANSPORTATION

Design No. 130 | Design Sheet No. 2 of 2 | FHWA/Asset 901100

FILE NO. 32572	ENGLISH	DESIGN TEAM Foth	Madison COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER V.4

2:29:04 PM 10/14/2026 JAE pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\6108001023\Bridge\(273)_Bridge-Unspecified\SHT_61080273_FOTH_130_901100_PC_Z08.dgn

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
Bridge	
(0)	Bridge
Concrete	
(0)	Barrier Concrete
(0)	Barrier Concrete Footing
(0)	Curb Gutter
(48)	Flowable Mortar
(0)	Median Concrete
(0)	PCC Pavement
(0)	Sidewalk
Existing	
(0)	Existing Pavement
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
Shoulder	
(209)	Shoulder HMA
(0)	Shoulder PCC
(6)	Shoulder Granular
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
Substrata	
(128)	Boulder
(48)	Broken Weathered
(3)	Core Out
(203)	Existing Pavement
(6)	Loam
(80)	Rock
(4)	Select Sand
(3)	Shale
(10)	Topsoil
Unsuitable / Waste	
(3)	Unsuitable Type A
(13)	Unsuitable Type B
(11)	Unsuitable Type C
(3)	Waste

NOTES:

Text

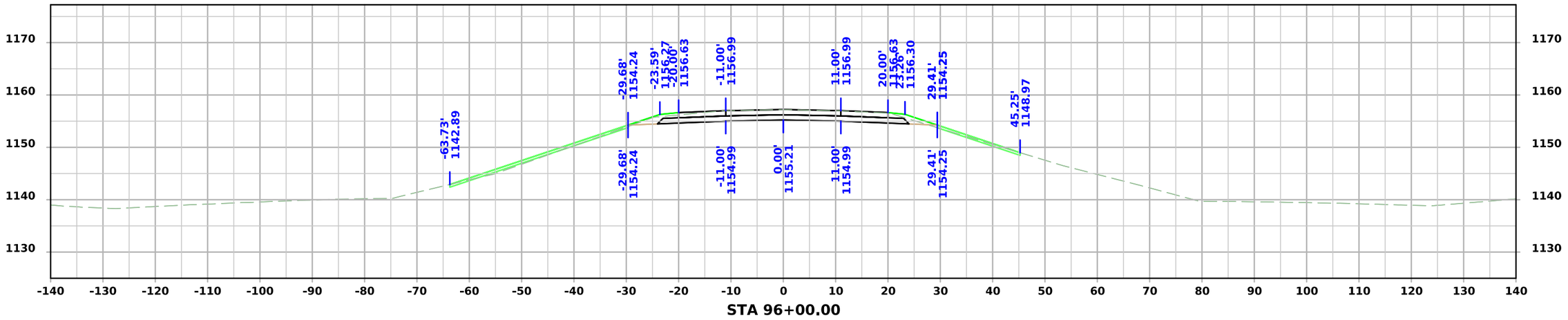
NOTES:

Text

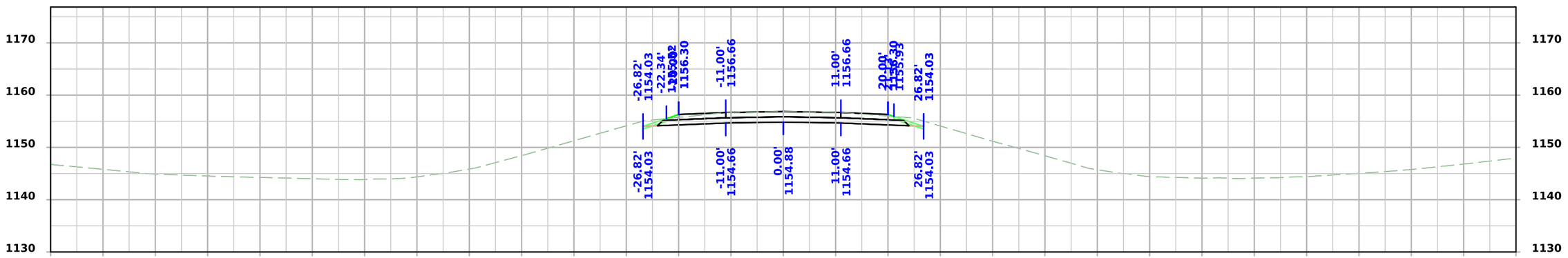
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

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

CO RD P48



STA 96+00.00



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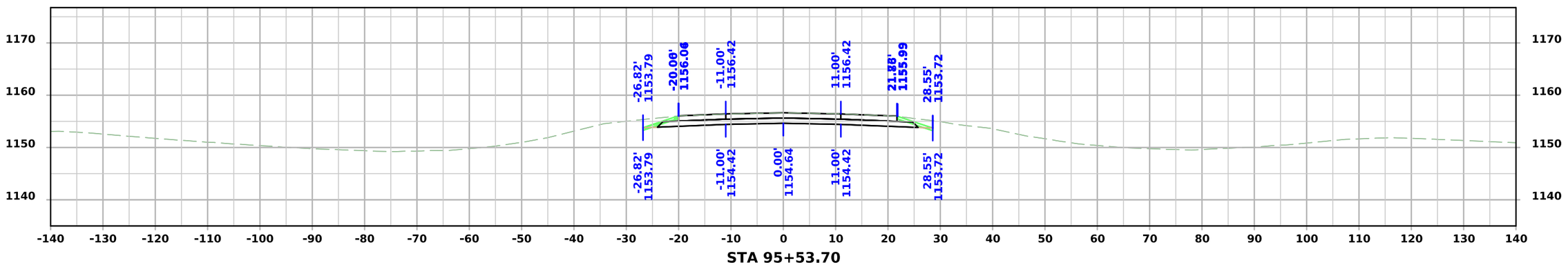

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FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER W.2

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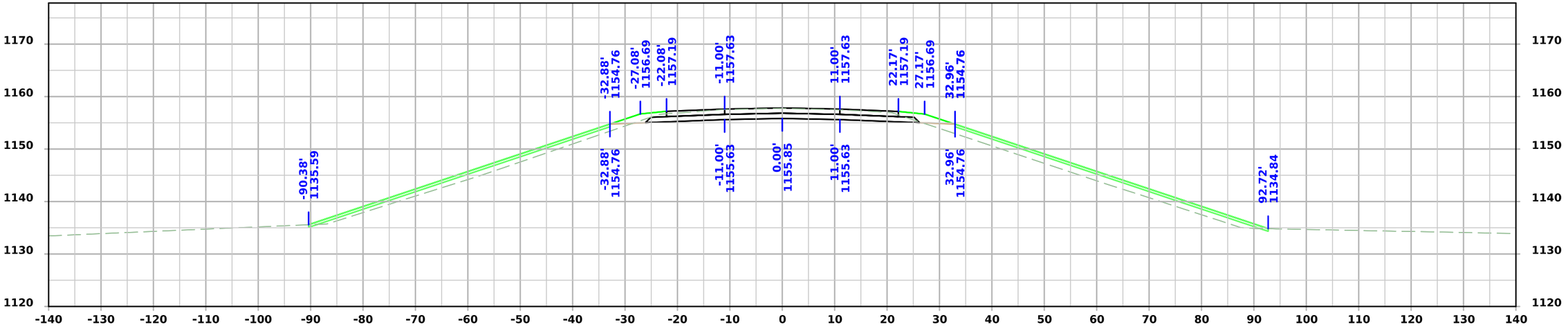
CO RD P48



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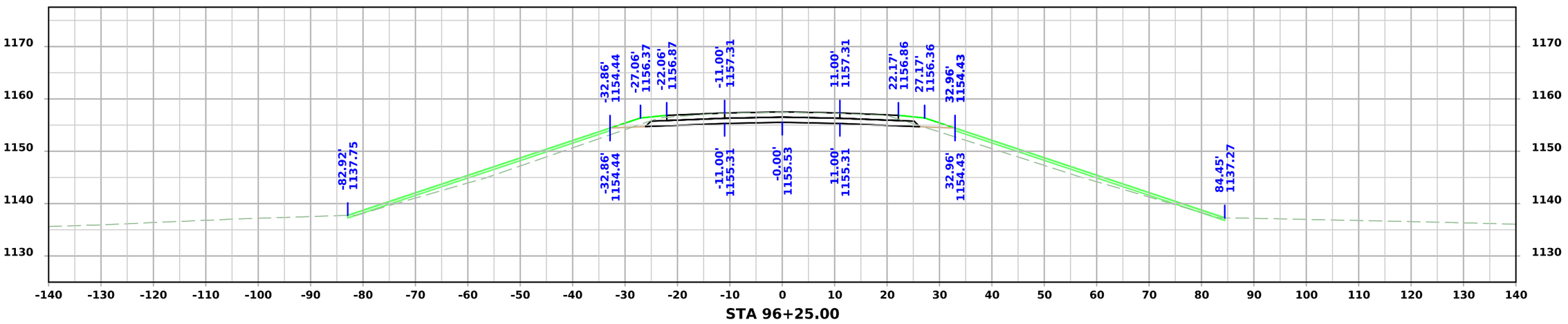

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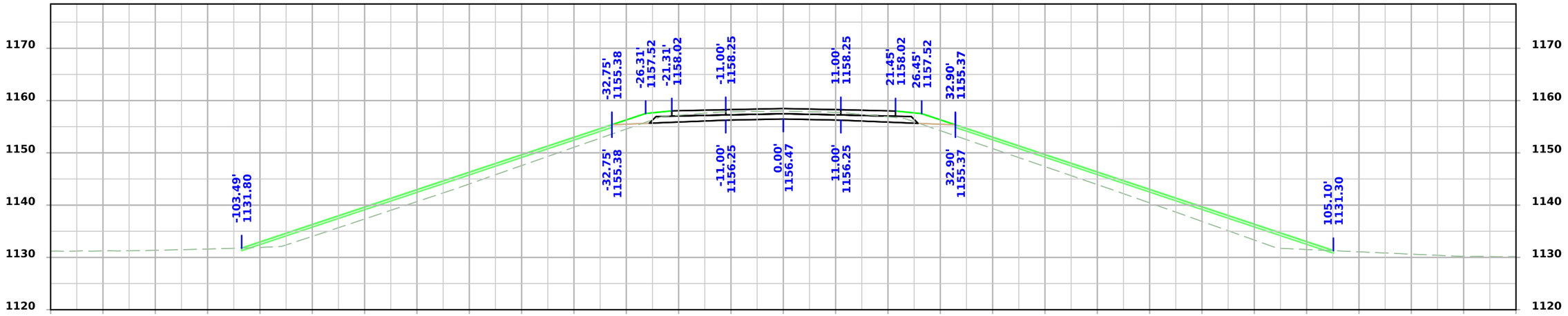
CO RD P48



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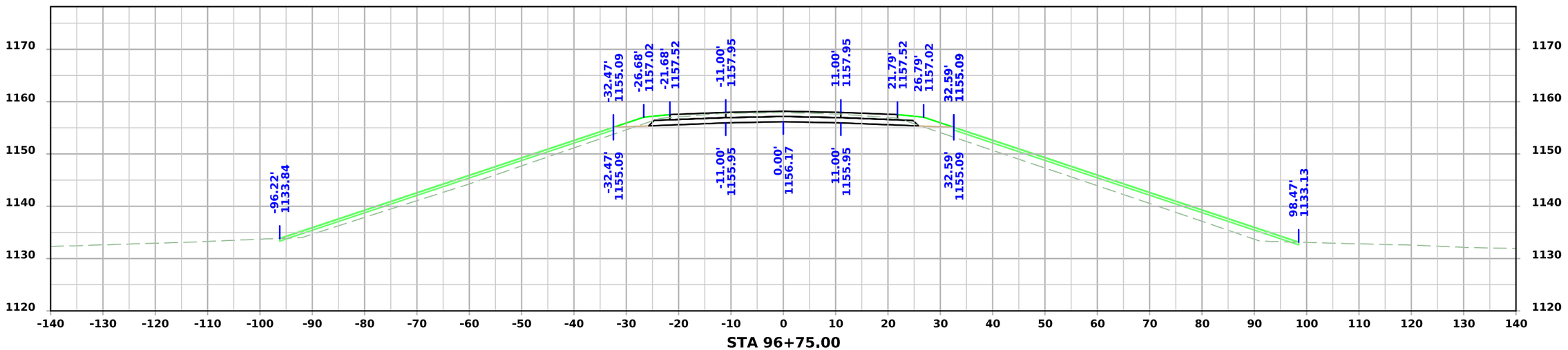

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FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER W.4

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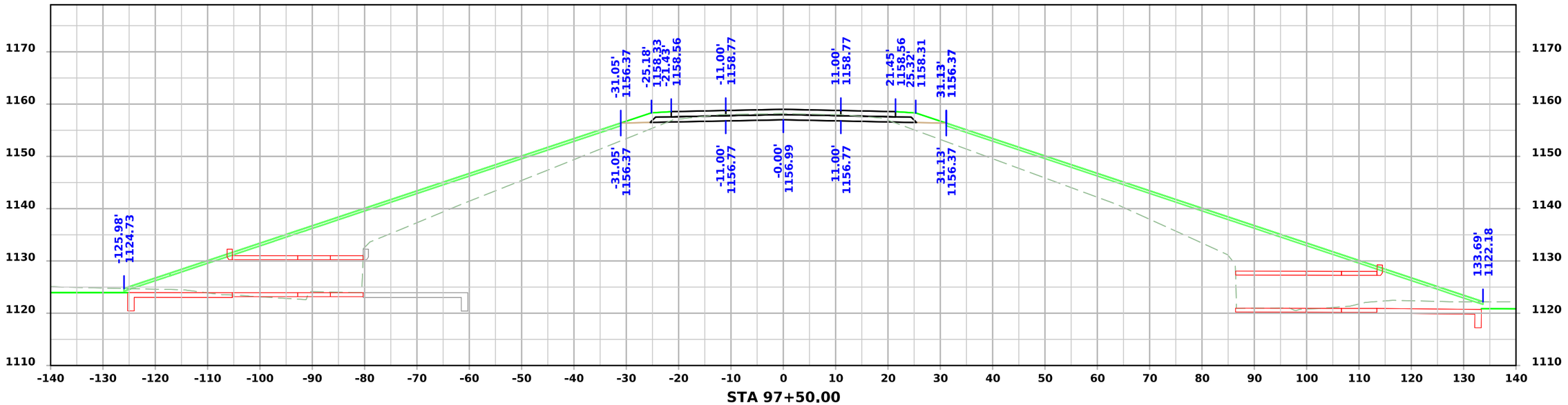
CO RD P48



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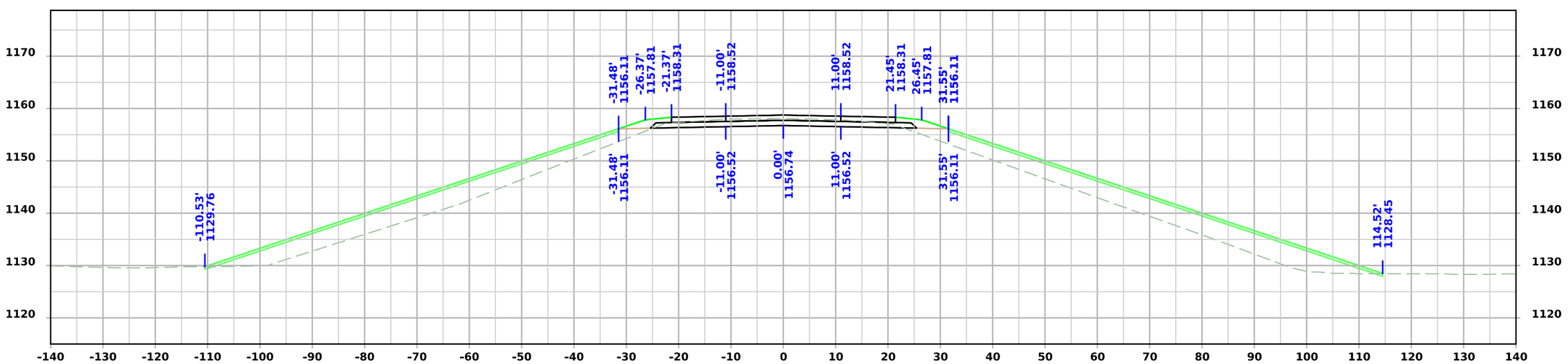

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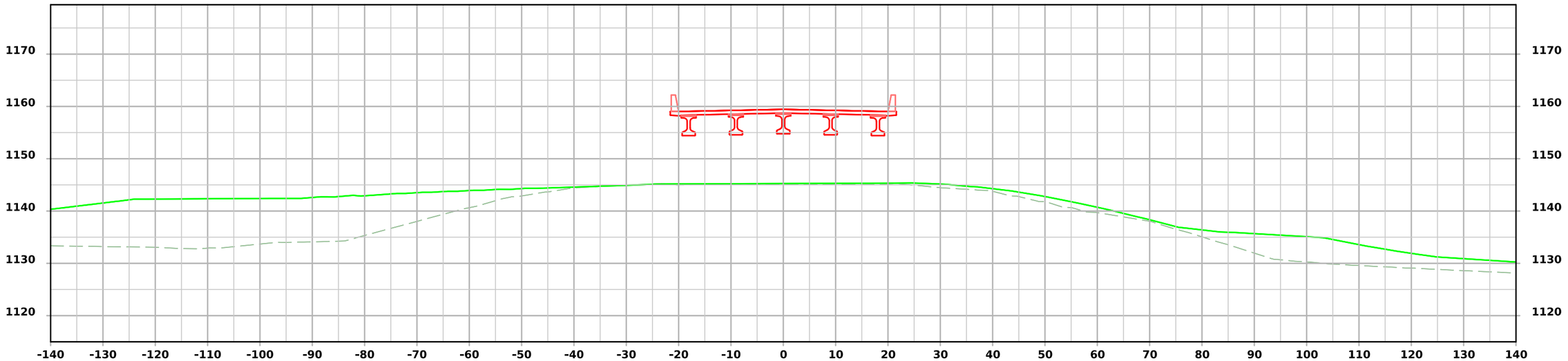
CO RD P48



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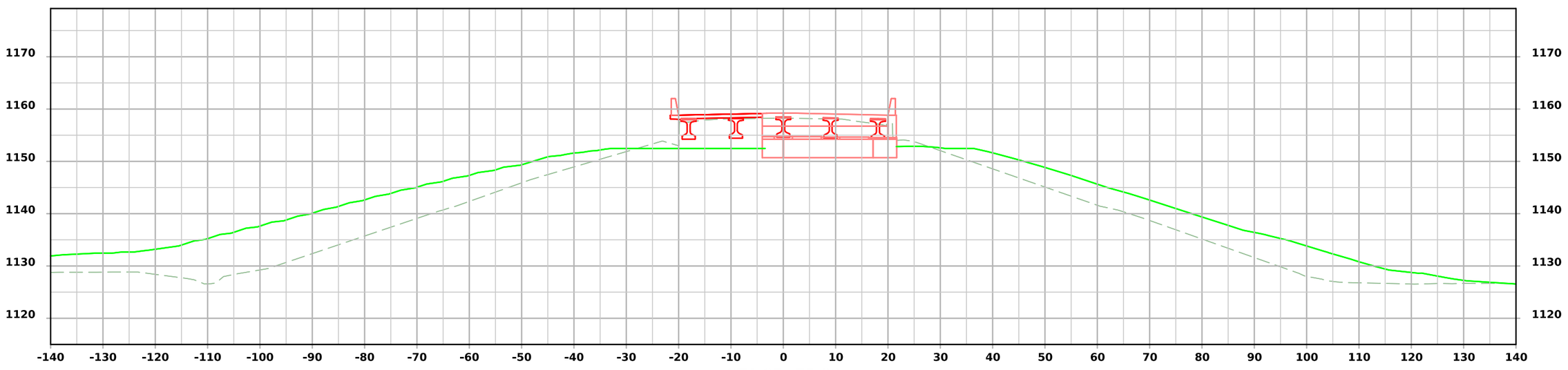

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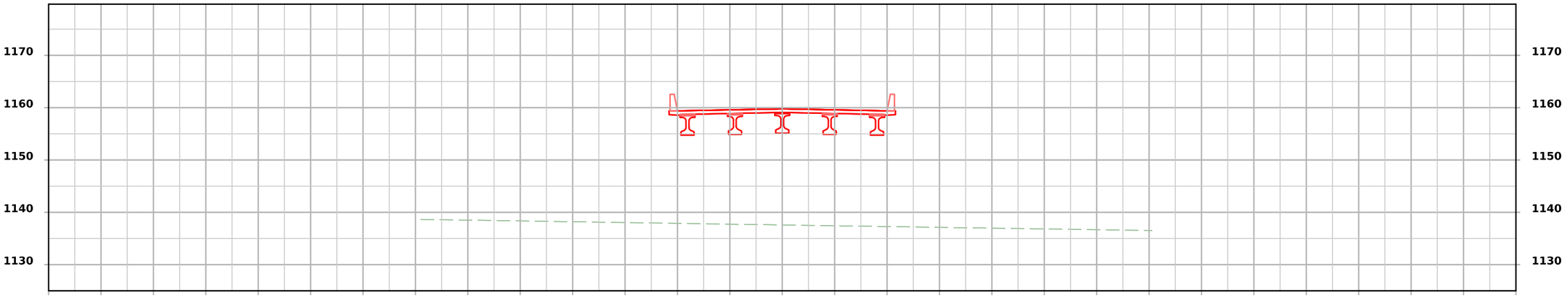

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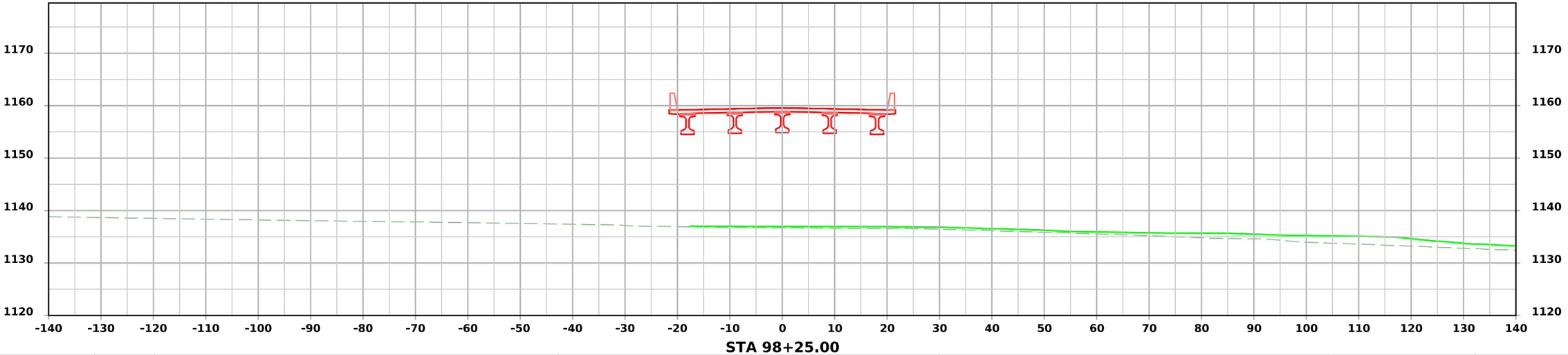

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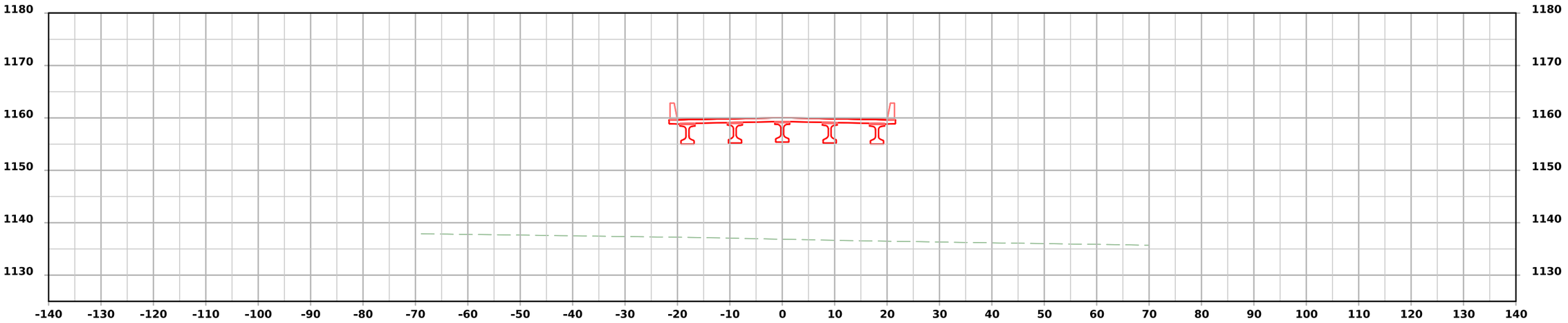

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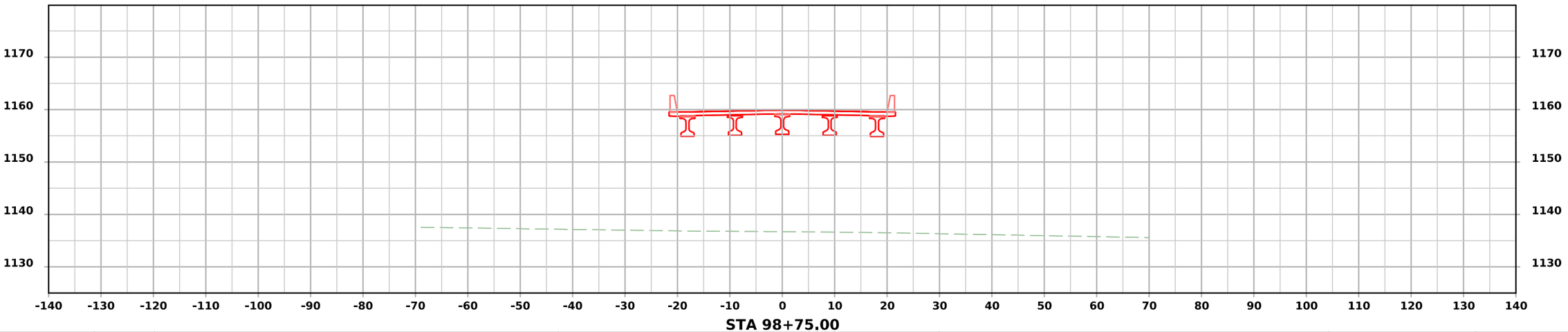

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FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER W.8

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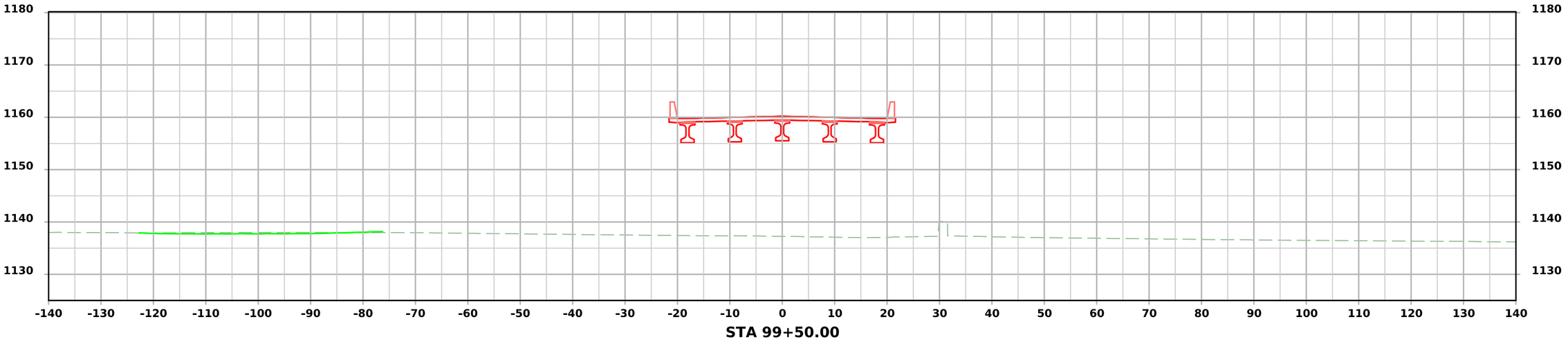

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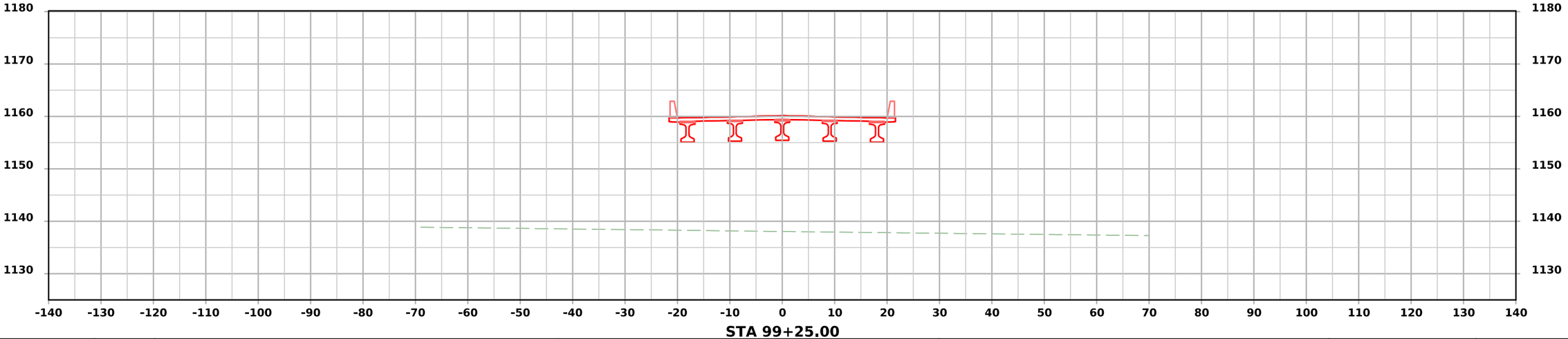

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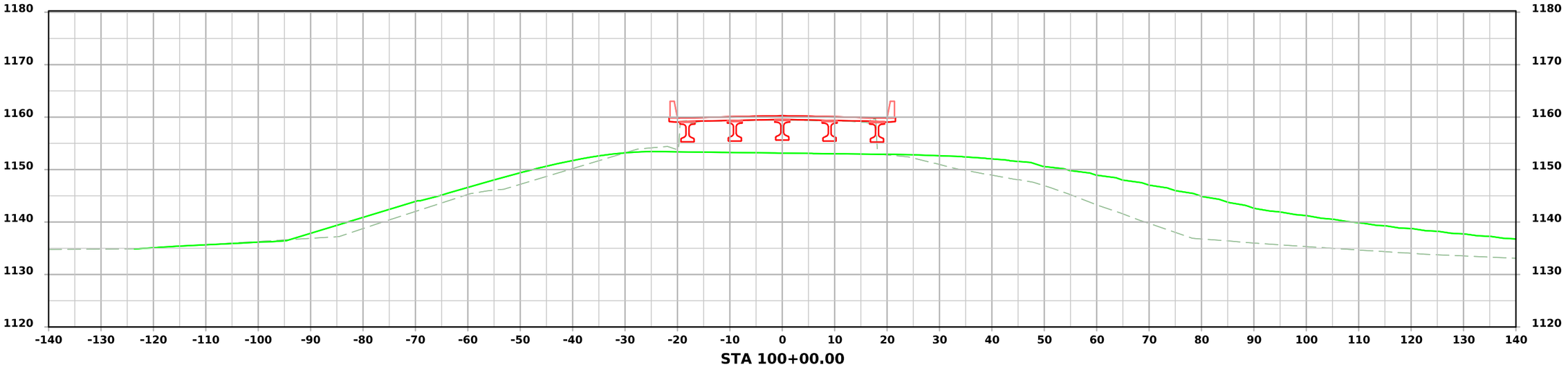

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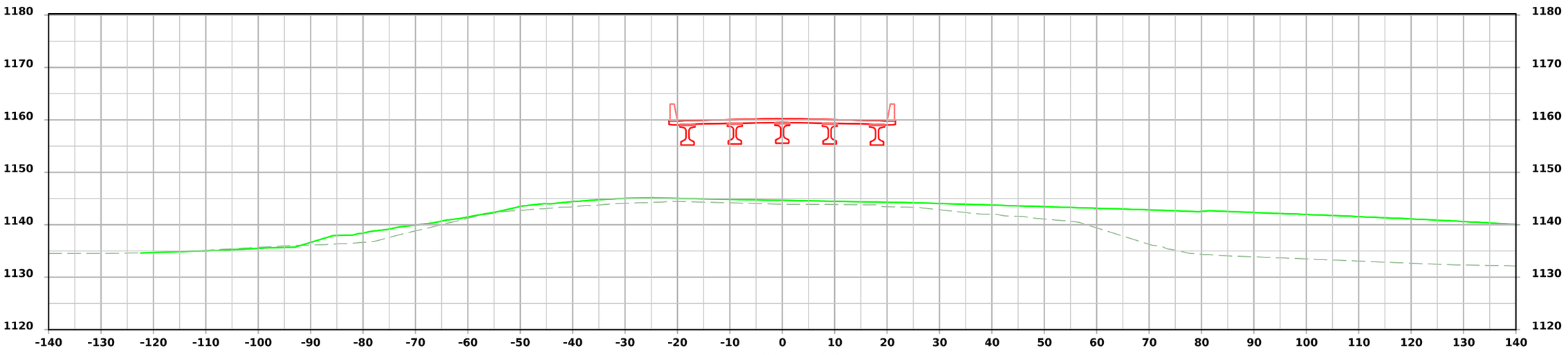

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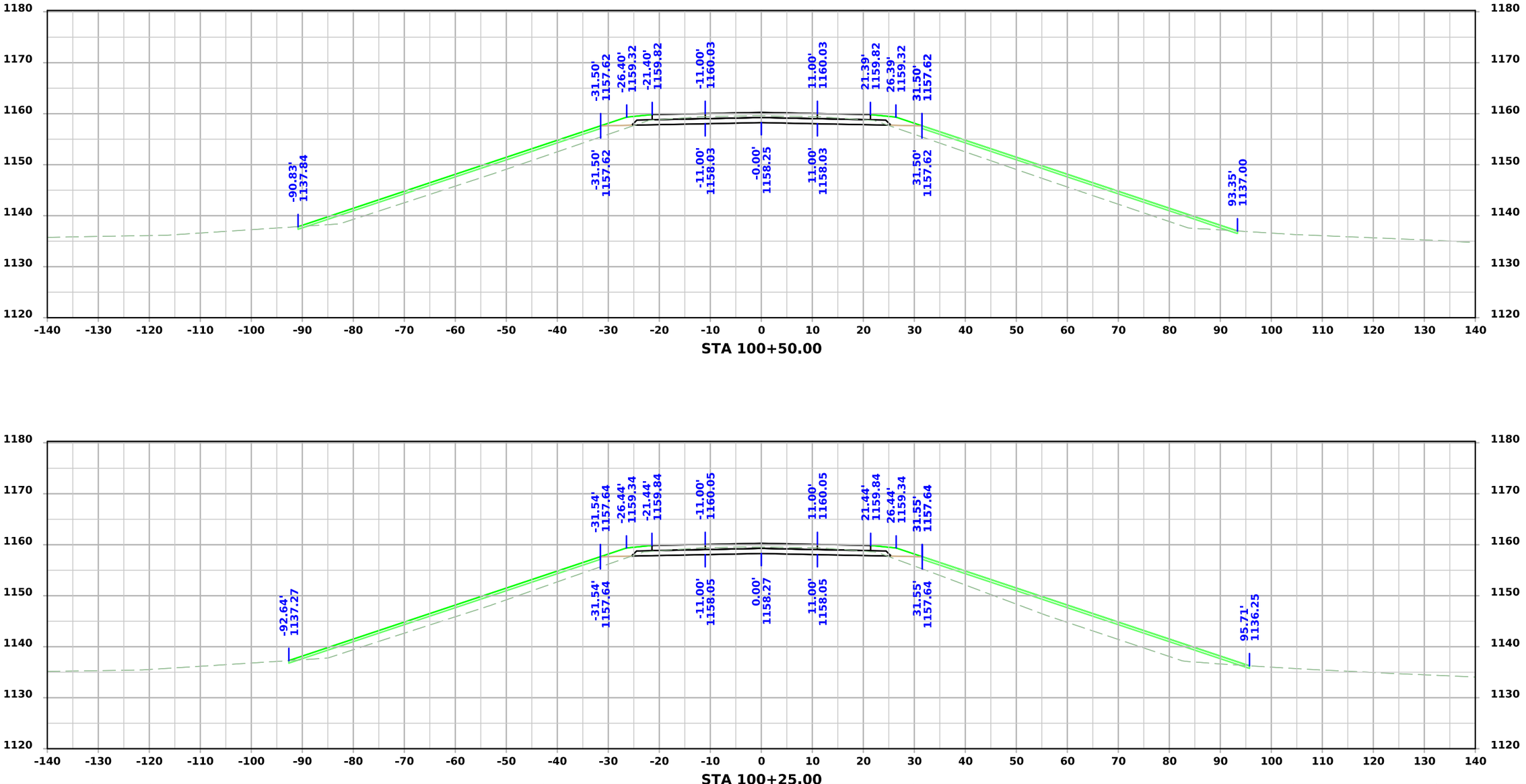

STA 100+50.00

STA 100+25.00

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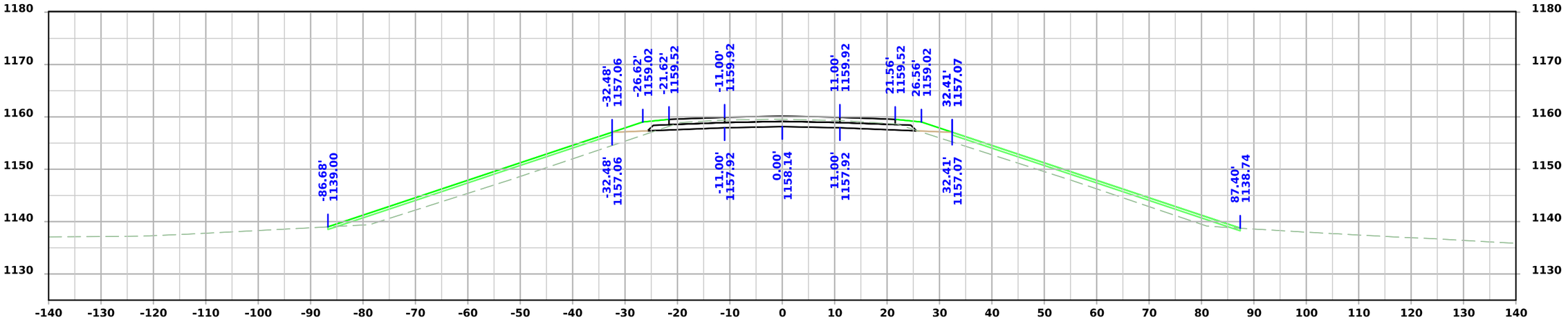

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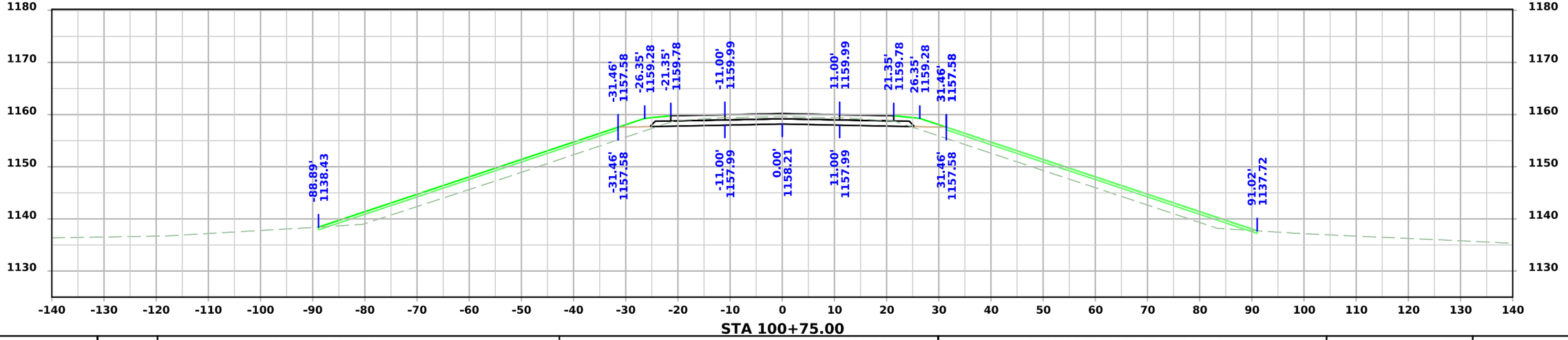

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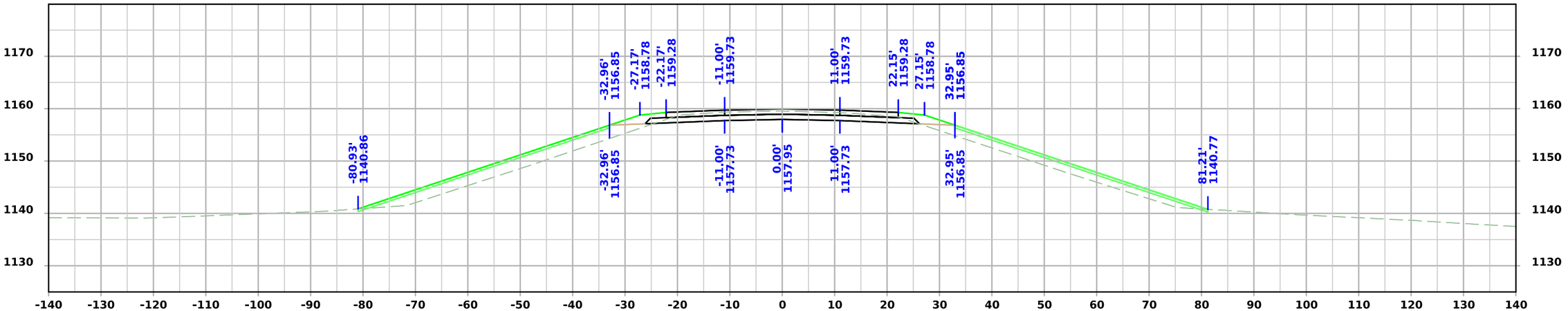
CO RD P48



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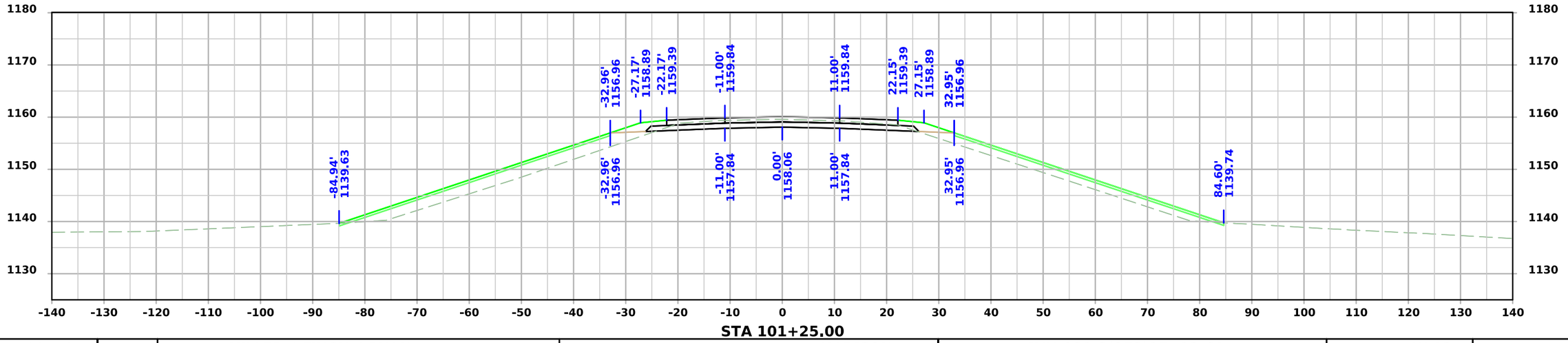

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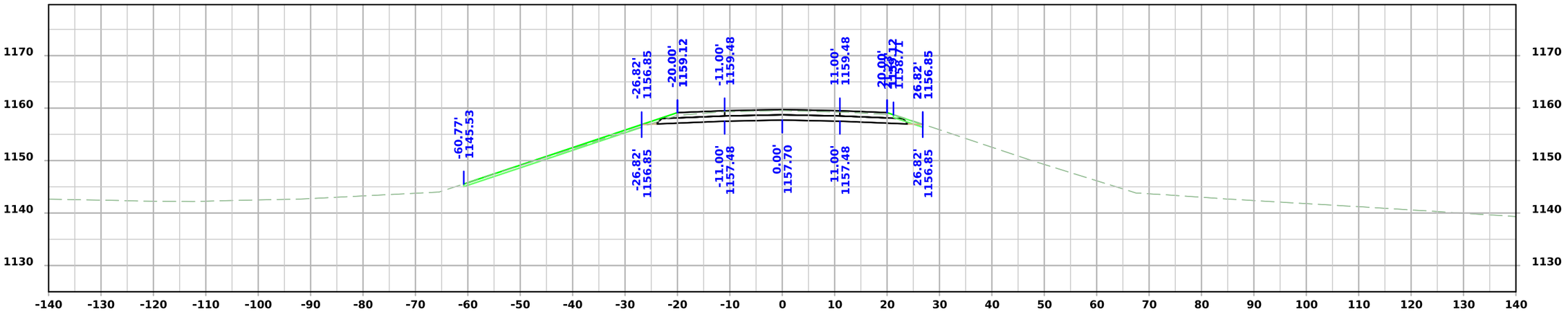

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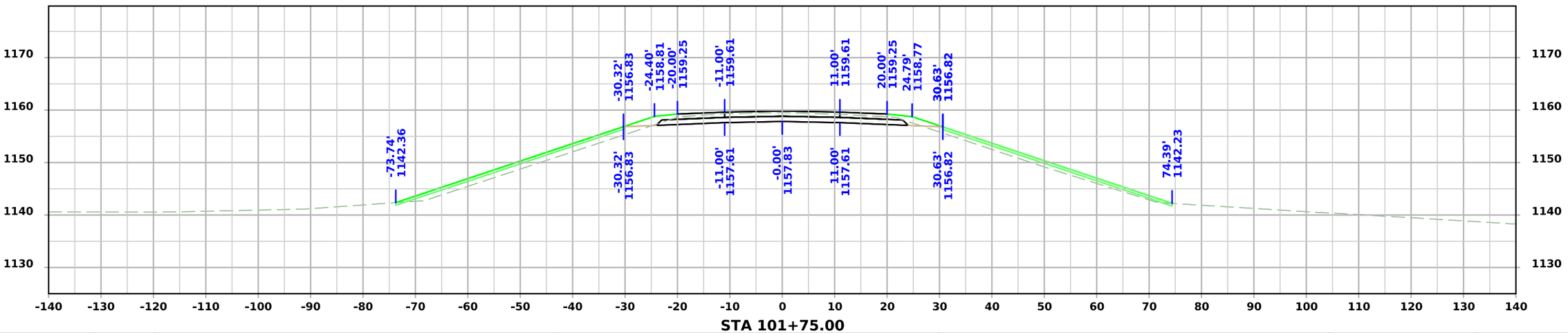

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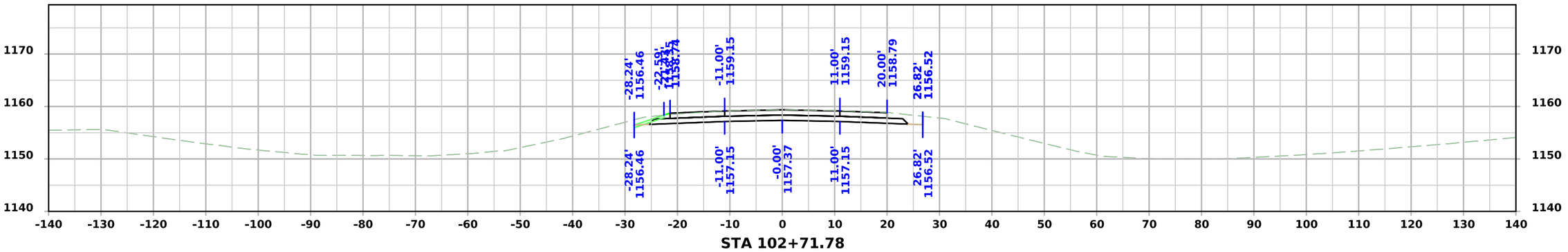
CO RD P48



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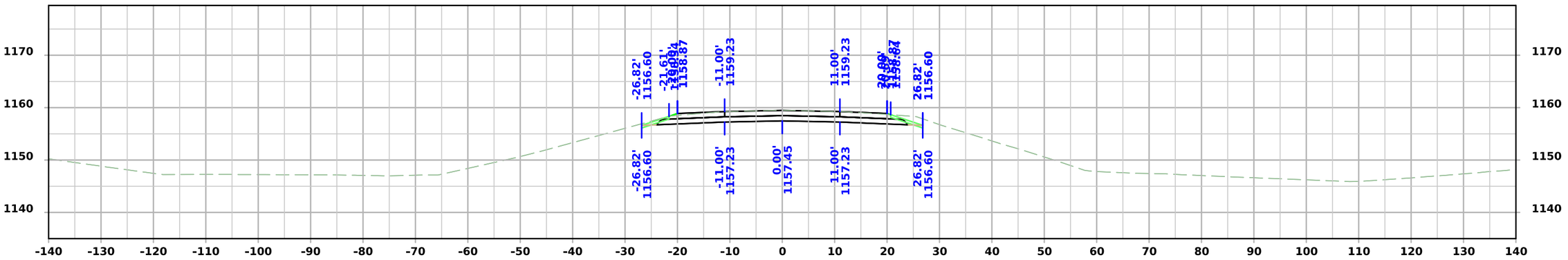

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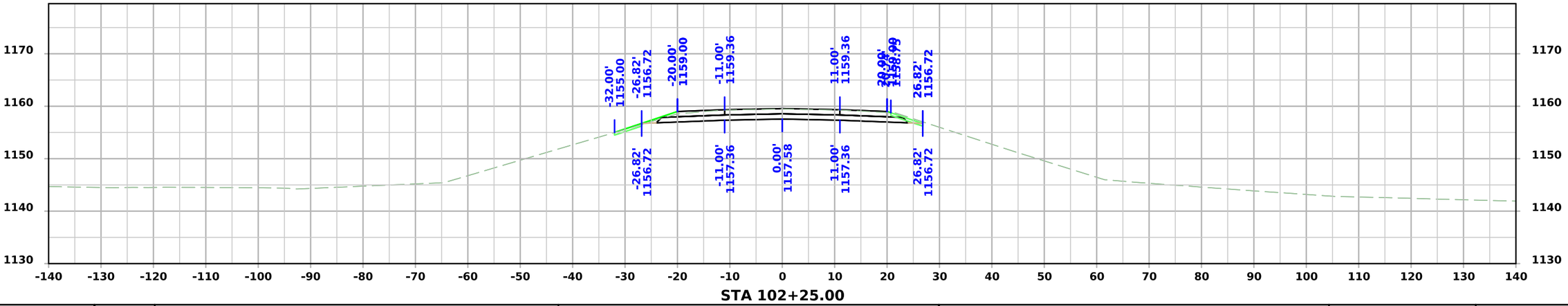

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FILE NO. 32572	ENGLISH	DESIGN TEAM MILLER / FINCH / RYAN	MADISON COUNTY	PROJECT NUMBER IMX-080-2(273)97--02-61	SHEET NUMBER W.15	

7:31:45 AM 11/13/2026 jryan3 pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\6108001023\Design\CADD_Files\Sheet_Files\SHT_61080273_W01-aftergeochange.dgn