PCC PAVEMENT - GRADE AND NEW
IMN-029-6(170)139--0E-97

LETTING DATE
Jan 21 2026

WOODBURY

## INDEX OF SHEETS


| No. | DESCRIPTION |
|---|---|
| A Sheets | Title Sheets |
| * A.1 | Title Sheet |
| * A.2 | Location Map Sheet |
| B Sheets | Typical Cross Sections and Details |
| B.1 - B.9 | Typical Cross Sections and Details |
| D Sheets | Mainline Plan and Profile Sheets |
| * D.1 | Plan & Profile Legend & Symbol Information Sheet |
| * D.2 - D.6 | I-29 Plan and Profile Sheets |
| E Sheets | Sideroad Plan and Profile Sheets |
| * E.1 - E.4 | 235th Street |
| * E.5 | Old U.S. 75 |
| * E.6 - E.7 | Banner Avenue |
| * E.8 | Barker Avenue |
| G Sheets | Survey Sheets |
| * G.1 - G.3 | Reference Ties and Bench Marks |
| G.4 - G.5 | Horizontal Control Tab. and Super |
| J Sheets | Traffic Control and Staging Sheets |
| J.1 | Traffic Control Plan, Staging Notes and Tabulations |
| * J.2 | Traffic Control & Staging Legend & Symbol Info. Sheet |
| * J.3 | Staging Typicals |
| * J.4 - J.19 | Staging and Traffic Control Sheets |
| K Sheets | Interchange Sheets |
| *K.1 - K.3 | Interchange Layout Sheets |
| *K.4 | Ramp A Plan and Profile Sheets |
| *K.5 - K.6 | Ramp B Plan and Profile Sheets |
| *K.7 - K.8 | Ramp C Plan and Profile Sheets |
| *K.9 - K.10 | Ramp D Plan and Profile Sheets |
| U Sheets | Modified Standards and Detail Sheets |
| * U.1 - U.4 | UPRR Crossing Details |
| V Sheets | Bridge Situation Plans |
| * V.1 - V.2 | Bridge Situation Plans |
| VW/VX/VY Sheets | Culvert Situation Plans |
| * VW.1 | ML029 Culverts |
| * VX.1 - VX.4 | Side Road Culverts |
| * VY.1 - VY.4 | Ramp Culverts |
| W Sheets | Mainline Cross Sections |
| * W.1 | Cross Sections Legend and Information Sheet |
| * W.2 - W.46 | ML029 Cross Sections |
| X Sheets | Side Road Cross Sections |
| * X.1 - X.43 | 235th Street Cross Sections |
| * X.44 - X.51 | Old U.S. 75 Cross Sections |
| * X.52 - X.55 | Banner Avenue Cross Sections |
| * X.56 | Barker Avenue Cross Sections |
| Y Sheets | Ramp Cross Sections |
| * Y.1 - Y.11 | Ramp A Cross Sections |
| * Y.12 - Y.23 | Ramp B Cross Sections |
| * Y.24 - Y.35 | Ramp C Cross Sections |
| * Y.36 - Y.45 | Ramp D Cross Sections |


* Color Plan Sheets

For Project Location Map
Refer to Sheet No. A.2



IOWA DOT

REVISIONS

| TOTAL |
|---|
| 221 |
| PROJECT IDENTIFICATION NUMBER |
| 06-97-029-010 |
| PROJECT NUMBER |
| IMN-029-6(170)139--0E-97 |
| R.O.W. PROJECT NUMBER |
| IMN-029-6(170)139--0E-97 |

PLANS OF PROPOSED IMPROVEMENT ON THE

# INTERSTATE ROAD SYSTEM
# WOODBURY

## PCC PAVEMENT - GRADE AND NEW

I-29 / 235TH STREET (SOUTHBRIDGE) INTERCHANGE
Approx. 2.5 mi S of the Co Rd D38 Interchange at Sergeant Bluff

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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


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


| I-29 SOUTHBRIDGE DESIGN DATA RURAL | | | |
|---|---|---|---|
| 2022 | AADT | 20600 | V.P.D. |
| 2050 | AADT | 31400 | V.P.D. |
| 20 -- | DHV | -- | V.P.H. |
| TRUCKS | | 26.1 | % |
| Total Design ESALs | | -- | |

| 235th St. DESIGN DATA RURAL | | | |
|---|---|---|---|
| 2019 | AADT | 100 | V.P.D. |
| 2050 | AADT | 4490 | V.P.D. |
| 20 -- | DHV | -- | V.P.H. |
| TRUCKS | | -- | % |
| Total Design ESALs | | -- | |

Preliminary Earthwork

| | | |
|---|---|---|
| Cut | 58,000 | CY |
| Fill | 295,000 | CY |
| | 237,000 | CY Balance |

INDEX OF SEALS

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

PRELIMINARY PLANS

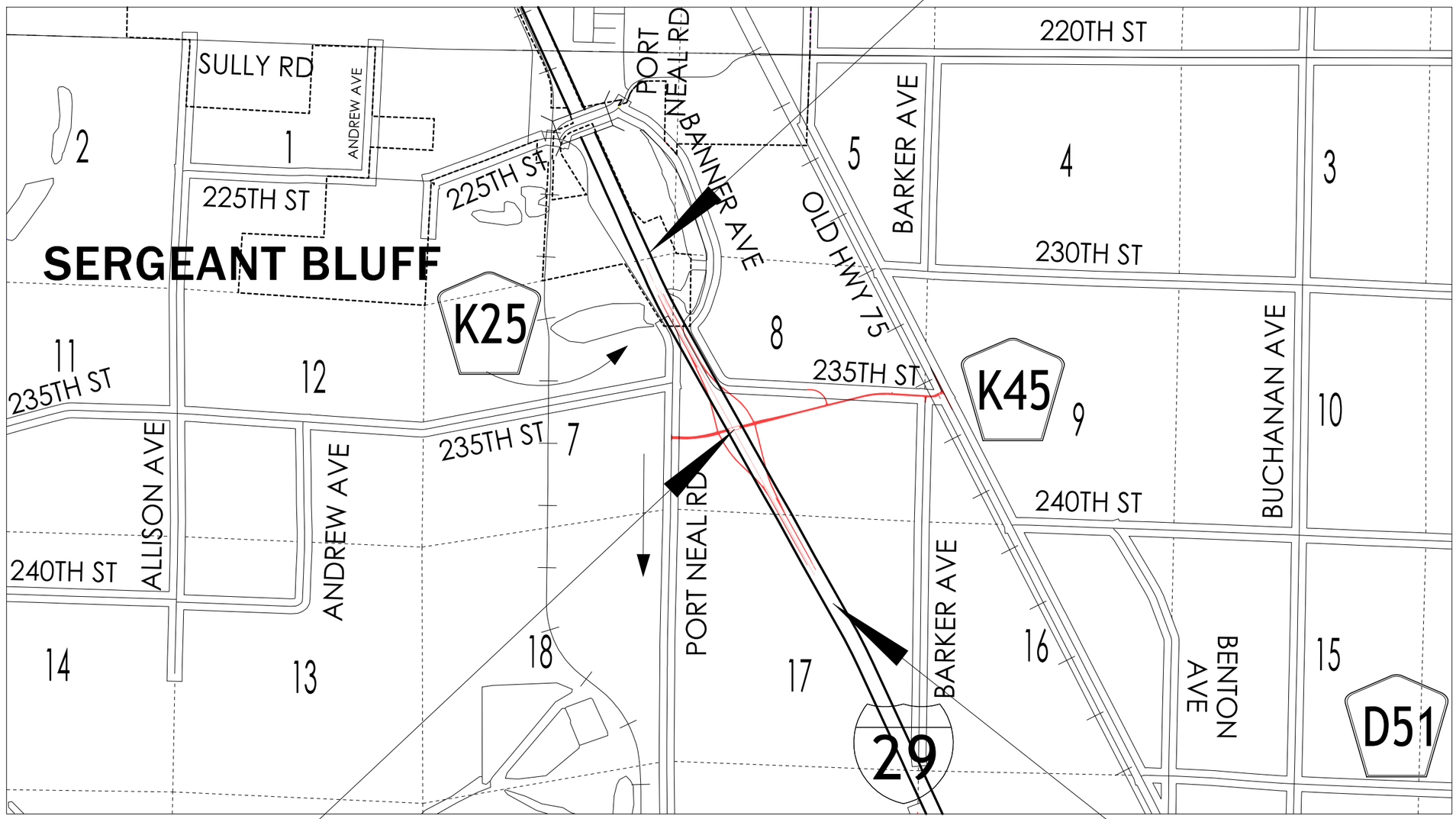
Subject to change by final design.

D5 Rev. - Date: 12/21/2023

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER A.1 |
|---|---|---|---|---|---|

4:00:43 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_A_.dgn

ML029 STA. 1679+26.00
END CONSTRUCTION




BRIDGE
235th St
Sta. 5013+74.10
FHWA #701220 (NEW)

LOCATION MAP SCALE
0 0.5 1
Mile

ML029 STA. 1596+32.00
BEGIN CONSTRUCTION

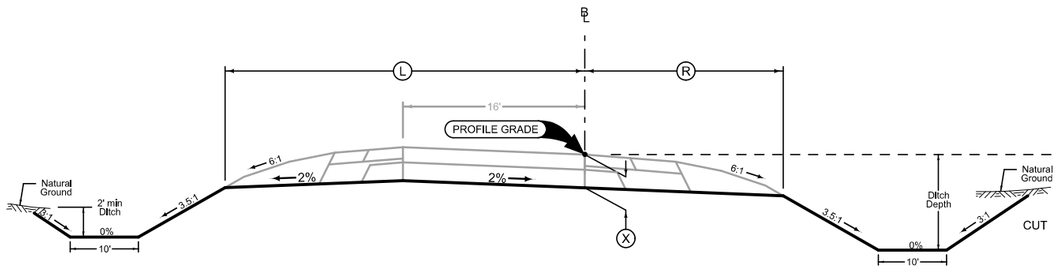
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER A.2 |
|---|---|---|---|---|---|

9:26:56 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_A_.dgn

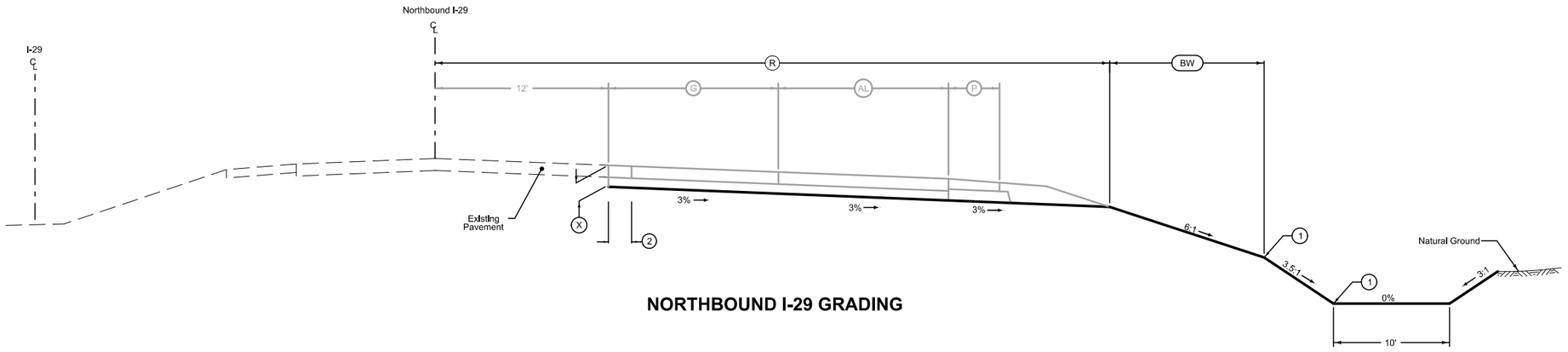
| LOCATION | | | | DIMENSIONS | | |
|---|---|---|---|---|---|---|
| INTERCHANGE | RAMP | STATION TO STATION | | (L) Feet | (R) Feet | (X) Inches |
| 235th Street | A | 1000+20.00 | 1014+61.31 | 33 | 18 | 23 |
| 235th Street | B | 2000+00.00 | 2015+31.10 | 33 | 18 | 23 |
| 235th Street | C | 3000+00.00 | 3017+83.21 | 33 | 18 | 23 |
| 235th Street | D | 4000+20.71 | 4016+72.70 | 33 | 18 | 23 |
| | | | | | | |
| | | | | | | |

Section view is in direction of traffic.

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




## RAMP GRADING




## NORTHBOUND I-29 GRADING

### Gore, Acceleration and Deceleration Lane

Section view is in the direction of traffic.

| Direction of Travel | BEGIN STATION | END STATION | (X) Inches | (R) Feet | (BW) Feet |
|---|---|---|---|---|---|
| NB | 1604+30.00 | 1607+30.00 | 25 | 28.5-41 | 4.5 |
| NB | 1607+30.00 | 1617+30.00 | 25 | 41 | 4.5 |
| NB | 1617+30.00 | 1618+20.00 | 25 | 41-47 | 4.5 |
| NB | 1618+20.00 | 1621+50.00 | 25 | 47-69 | 4.5 |
| NB | 1650+58.50 | 1652+08.50 | 25 | 65-47 | 4.5 |
| NB | 1652+08.50 | 1653+68.65 | 25 | 47-41 | 4.5 |
| NB | 1653+68.65 | 1665+00.00 | 25 | 41 | 4.5 |
| NB | 1665+00.00 | 1671+00.00 | 25 | 41-37 | 4.5 |
| | | | | | |
| | | | | | |

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

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

(2) Remove 2'-0 existing slab.

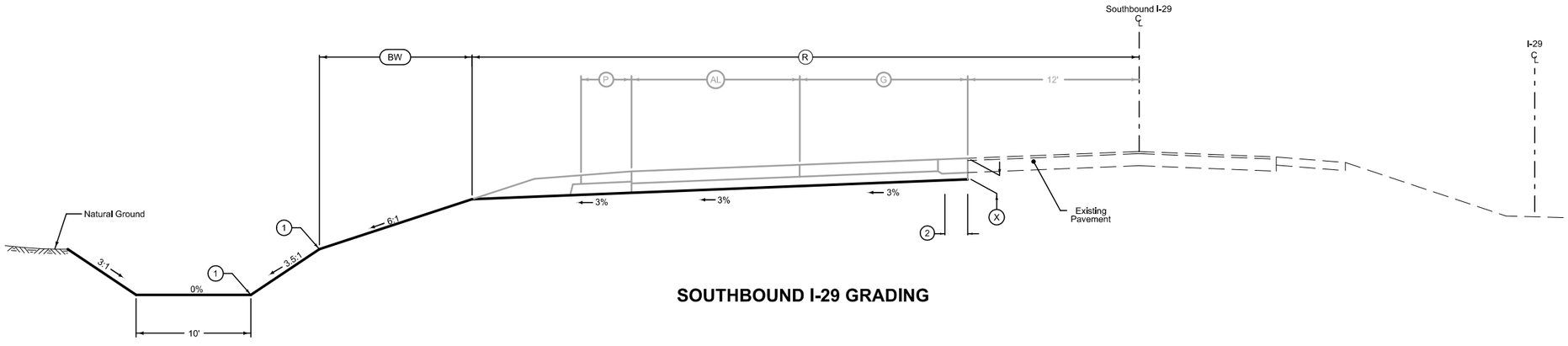
### Gore, Acceleration and Deceleration Lane

| Direction of Travel | BEGIN STATION | END STATION | (X) Inches | (R) Feet | (BW) Feet |
|---|---|---|---|---|---|
| SB | 1606+00.00 | 1612+00.00 | 23 | 29.5-42.5 | 4.5 |
| SB | 1612+00.00 | 1622+00.00 | 23 | 42.5 | 4.5 |
| SB | 1622+00.00 | 1623+60.15 | 23 | 42.5-49 | 4.5 |
| SB | 1623+60.15 | 1625+10.15 | 23 | 49-66.5 | 4.5 |
| SB | 1654+00.00 | 1657+30.00 | 23 | 70.5-48.5 | 4.5 |
| SB | 1657+30.00 | 1658+20.00 | 23 | 48.5-42.5 | 4.5 |
| SB | 1658+20.00 | 1668+20.00 | 23 | 42.5 | 4.5 |
| SB | 1668+20.00 | 1671+20.00 | 23 | 42.5-36.5 | 4.5 |
| | | | | | |
| | | | | | |

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

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

(2) Remove 2'-0 existing slab.



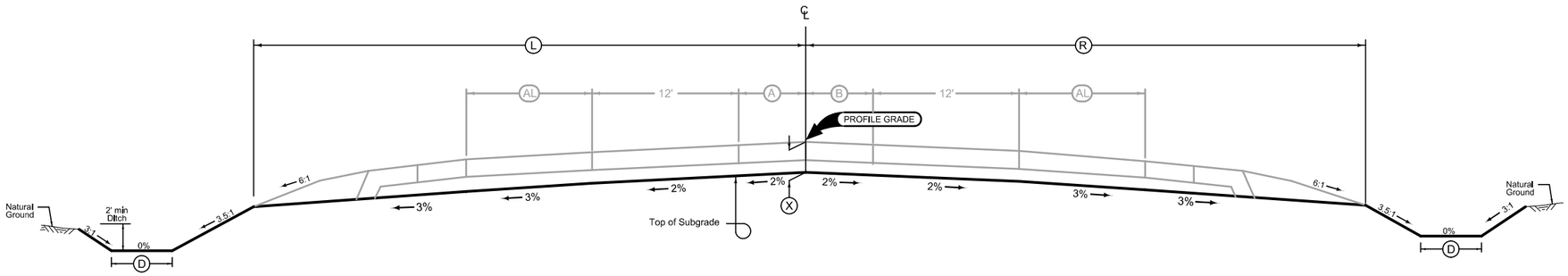

## SOUTHBOUND I-29 GRADING

## MAINLINE AND RAMP GRADING

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER B.1 | |
|---|---|---|---|---|---|---|

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| LOCATION | | | DIMENSIONS | | | |
|---|---|---|---|---|---|---|
| ROAD IDENTIFICATION | STATION TO STATION | | (L) Feet | (R) Feet | (X) Inches | (D) Feet |
| 235th Street | 5000+62.00 | 5001+77.00 | 41 | 37 | 15.5 | 4 |
| 235th Street | 5001+77.00 | 5002+72.41 | 41-37 | 37 | 15.5 | 4 |
| 235th Street | 5002+72.41 | 5006+28.05 | 37 | 37 | 15.5 | 4-10 |
| 235th Street | 5006+28.05 | 5008+08.11 | 37 | 37-49 | 15.5 | 10 |
| 235th Street | 5008+08.11 | 5010+10.83 | 37 | 49 | 15.5 | 10 |
| 235th Street | 5010+10.83 | 5012+54.99 | 37-42 | 42 | 21.5 | 0 |
| 235th Street | 5014+93.20 | 5018+23.83 | 42 | 42 | 21.5 | 0 |
| 235th Street | 5018+23.83 | 5020+18.40 | 49 | 37 | 15.5 | 10 |
| 235th Street | 5020+18.40 | 5021+98.40 | 49-37 | 37 | 15.5 | 10 |
| 235th Street | 5021+98.40 | 5027+38.40 | 37-29 | 37-29 | 15.5 | 10-4 |
| 235th Street | 5027+38.40 | 5056+20.15 | 29 | 29 | 15.5 | 4 |
| 235th Street | 5056+20.15 | 5057+26.58 | 29-38 | 29-39 | 15.5 | 4 |
| 235th Street | 5057+26.58 | 5058+36.00 | 29 | 40 | 15.5 | 4-0 |
| 235th Street | 5058+36.00 | 5058+41.59 | 29 | 40 | 15.0 | 0 |
| | | | | | | |
| | | | | | | |

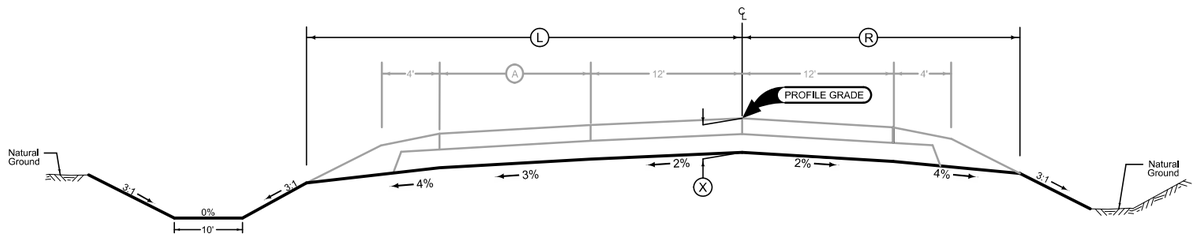



**235TH STREET**

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.

| LOCATION | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| ROAD IDENTIFICATION | STATION TO STATION | | (L) Feet | (R) Feet | (X) Inches |
| Old US 75 | 335+25.00 | 339+27.97 | 18 | 18 | 15 |
| Old US 75 | 339+27.97 | 343+50.00 | 30 | 18 | 15 |
| Old US 75 | 343+50.00 | 344+97.97 | 30 | 0 | 15 |
| Old US 75 | 344+97.97 | 346+17.97 | 30-18 | 0 | 15 |
| | | | | | |
| | | | | | |

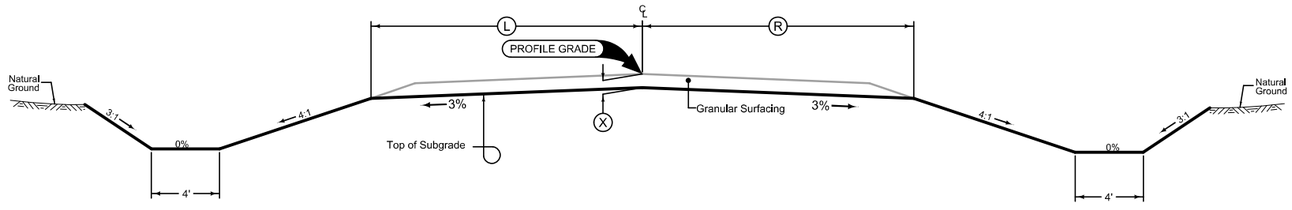



**OLD US 75**

| LOCATION | | | DIMENSIONS | | |
|---|---|---|---|---|---|
| ROAD IDENTIFICATION | STATION TO STATION | | (L) Feet | (R) Feet | (X) Inches |
| Banner Avenue | 8000+75.03 | 8006+62.00 | 16 | 16 | 6 |
| Barker Avenue | 9001+85.00 | 9002+41.69 | 19 | 19 | 6 |
| | | | | | |
| | | | | | |

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.




**BANNER AVENUE**
**BARKER AVENUE**

**SIDEROAD GRADING**

## PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C, Match Auxiliary Lane

| Direction of Travel | BEGIN STATION | END STATION | (P) Feet |
|---|---|---|---|
| SB | 1606+00.00 | 1608+00.00 | 12-6 |
| SB | 1608+00.00 | 1625+10.15 | 6 |
| SB | 1625+10.15 | 1625+35.15 | 10 |
| SB | 1653+75.00 | 1654+00.00 | 10 |
| SB | 1654+00.00 | 1670+20.12 | 6 |
| SB | 1670+20.12 | 1671+20.00 | 6-10 |
| | | | |
| | | | |

## Partial Depth Patch

Shoulder Jointing:
Longitudinal joint: BT-3
Transverse joints: C, Matching Mainline Joints

| Direction of Travel | BEGIN STATION | END STATION |
|---|---|---|
| SB | 1603+46.00 | 1679+26.00 |
| | | |
| | | |
| | | |

## Partial Depth Patch

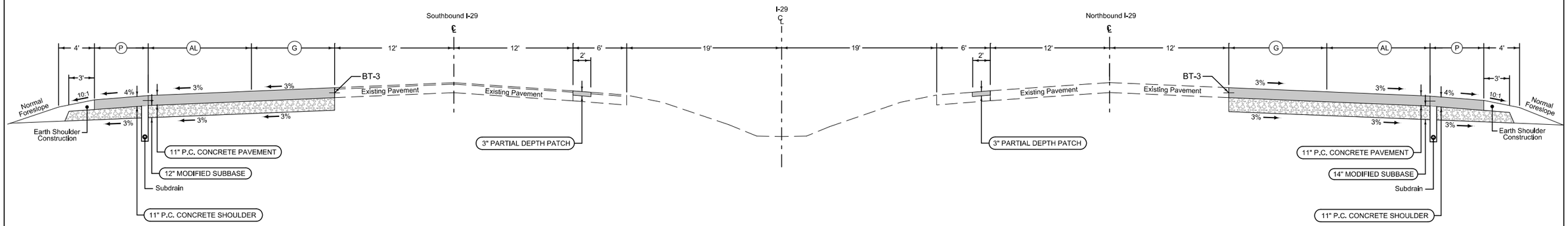
Shoulder Jointing:
Longitudinal joint: BT-3
Transverse joints: C Matching Mainline Joints

| Direction of Travel | BEGIN STATION | END STATION |
|---|---|---|
| NB | 1596+32.00 | 1671+95.00 |
| | | |
| | | |
| | | |

## PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2 or KT-2
Transverse joints: C, Match Auxiliary Lane

| Direction of Travel | BEGIN STATION | END STATION | (P) Feet |
|---|---|---|---|
| NB | 1604+30.00 | 1605+29.88 | 10-6 |
| NB | 1605+29.88 | 1621+50.00 | 6 |
| NB | 1621+50.00 | 1621+75.00 | 10 |
| NB | 1650+33.50 | 1650+58.50 | 10 |
| NB | 1650+58.50 | 1665+00.00 | 6 |
| NB | 1665+00.00 | 1671+00.00 | 6-12 |
| | | | |
| | | | |




## Gore, Acceleration and Deceleration Lane

Longitudinal joint: KT-2
Transverse joint: CD, Match Mainline

| Direction of Travel | BEGIN STATION | END STATION | (G) Feet | (AL) Feet |
|---|---|---|---|---|
| SB | 1606+00.00 | 1612+00.00 | 0 | 0-12 |
| SB | 1612+00.00 | 1622+00.00 | 0 | 12 |
| SB | 1622+00.00 | 1623+60.15 | 0 | 12-18 |
| SB | 1623+60.15 | 1625+10.15 | 2-20 | 16 |
| SB | 1654+00.00 | 1657+30.00 | 24-2 | 16 |
| SB | 1657+30.00 | 1658+20.00 | 0 | 18-12 |
| SB | 1658+20.00 | 1668+20.00 | 0 | 12 |
| SB | 1668+20.00 | 1671+20.00 | 0 | 12-0 |
| | | | | |
| | | | | |

## Gore, Acceleration and Deceleration Lane

Longitudinal joint: KT-2
Transverse joint: CD, Match Mainline

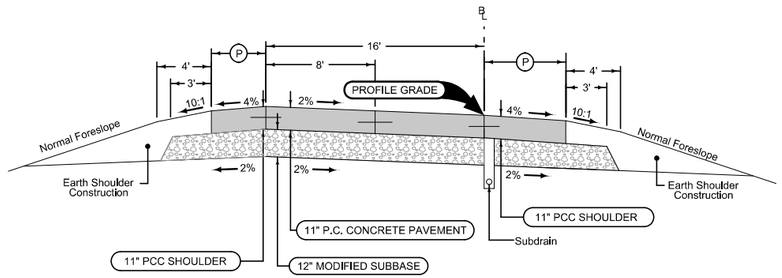
| Direction of Travel | BEGIN STATION | END STATION | (G) Feet | (AL) Feet |
|---|---|---|---|---|
| NB | 1604+30.00 | 1607+30.00 | 0 | 0-12 |
| NB | 1607+30.00 | 1617+30.00 | 0 | 12 |
| NB | 1617+30.00 | 1618+20.00 | 0 | 12-18 |
| NB | 1618+20.00 | 1621+50.00 | 2-24 | 16 |
| NB | 1650+58.50 | 1652+08.50 | 20-2 | 16 |
| NB | 1652+08.50 | 1653+68.65 | 0 | 18-12 |
| NB | 1653+68.65 | 1665+00.00 | 0 | 12 |
| NB | 1665+00.00 | 1671+00.00 | 0 | 12-0 |
| | | | | |
| | | | | |

# I-29 PAVING

## PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2
Transverse joints: CD, Match Ramp

| ROAD IDENTIFICATION | BEGIN STATION | END STATION | (P) Feet |
|---|---|---|---|
| Ramp A | 1000+20.00 | 1014+61.31 | 4 |
| Ramp B | 2000+00.00 | 2016+31.10 | 4 |
| Ramp C | 3003+08.92 | 3017+83.21 | 4 |
| Ramp D | 4000+20.71 | 4013+63.78 | 4 |
| | | | |
| | | | |




## PCC Shoulder

Shoulder Jointing:
Longitudinal joint: L-2
Transverse joints: CD, Match Ramp

| ROAD IDENTIFICATION | BEGIN STATION | END STATION | (P) Feet |
|---|---|---|---|
| Ramp A | 1000+20.00 | 1014+61.31 | 6 |
| Ramp B | 2000+00.00 | 2015+31.10 | 6 |
| Ramp C | 3000+00.00 | 3017+83.21 | 6 |
| Ramp D | 4000+20.71 | 4016+72.70 | 6 |
| | | | |
| | | | |

Section shown in the direction of traffic.

Ramp Jointing:
Transverse joints: CD at 17' spacing.
Longitudinal joints: L-2

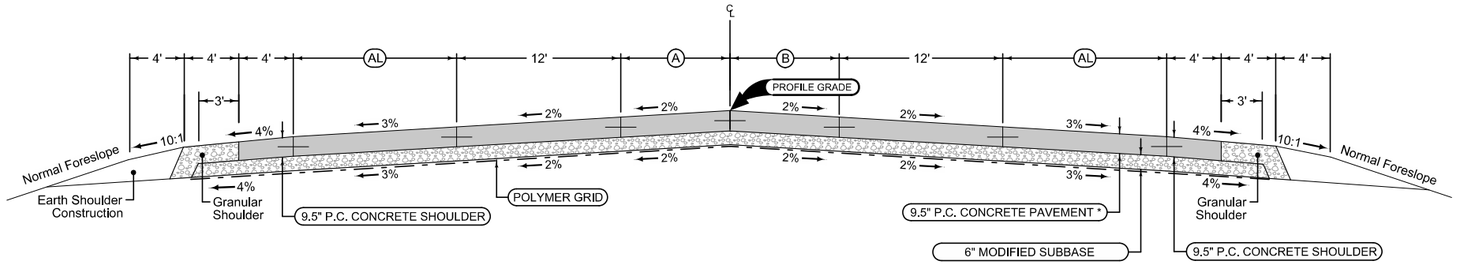
| ROAD IDENTIFICATION | BEGIN STATION | END STATION |
|---|---|---|
| Ramp A | 1000+20.00 | 1014+61.31 |
| Ramp B | 2000+00.00 | 2016+31.10 |
| Ramp C | 3000+00.00 | 3017+83.21 |
| Ramp D | 4000+20.71 | 4016+72.70 |
| | | |
| | | |

# RAMP PAVING

## PCC Auxiliary Lane And Shoulder

Shoulder Jointing:
Longitudinal joint: L-2
Transverse joints: CD, Match Ramp

| ROAD IDENTIFICATION | BEGIN STATION | END STATION | (AL) Feet |
|---|---|---|---|
| 235th Street | 5000+12.00 | 5001+77.00 | 12 |
| 235th Street | 5001+77.00 | 5002+72.41 | 12-0 |
| 235th Street | 5002+72.41 | 5009+60.00 | 0 |
| 235th Street | 5018+75.00 | 5020+18.40 | 12 |
| 235th Street | 5020+18.40 | 5021+98.40 | 12-0 |
| 235th Street | 5021+98.40 | 5058+91.57 | 0 |
| | | | |
| | | | |




Jointing:
Transverse joints: CD at 15' spacing
Longitudinal joint: L-2

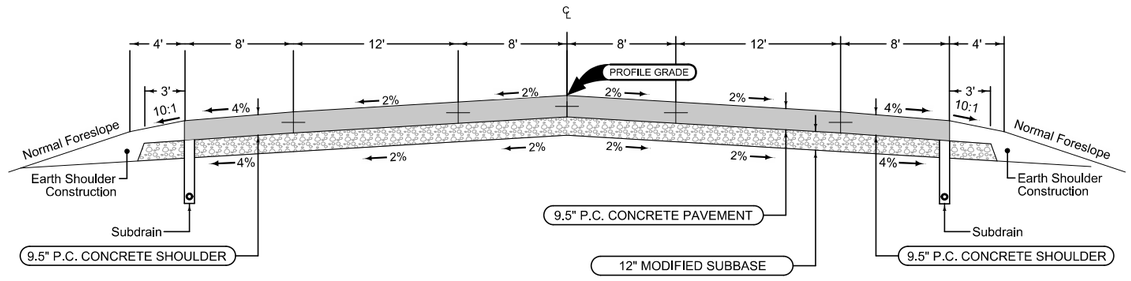
| STATION TO STATION | | (A) Feet | (B) Feet |
|---|---|---|---|
| 5000+12.00 | 5001+77.00 | 12 | 8 |
| 5001+77.00 | 5002+72.41 | 12-8 | 8 |
| 5002+72.41 | 5009+60.00 | 8 | 8 |
| 5018+75.00 | 5022+98.40 | 8 | 8 |
| 5022+98.40 | 5027+38.40 | 8-0 | 8-0 |
| 5027+38.40 | 5056+05.46 | 0 | 0 |
| 5056+05.46 | 5057+26.60 | 0-4 | 0 |
| 5057+26.60 | 5058+91.57 | 4 | 0 |
| | | | |
| | | | |

## PCC Auxiliary Lane And Shoulder

PCC Shoulder Jointing:
Longitudinal joint: L-2
Transverse joints: CD, Match Ramp

| ROAD IDENTIFICATION | BEGIN STATION | END STATION | (AL) Feet |
|---|---|---|---|
| 235th Street | 5000+12.00 | 5006+28.05 | 0 |
| 235th Street | 5006+28.05 | 5008+08.11 | 0-12 |
| 235th Street | 5008+08.11 | 5009+60.00 | 12 |
| 235th Street | 5018+75.00 | 5056+00.00 | 0 |
| 235th Street | 5056+00.00 | 5057+20.00 | 0-12 |
| 235th Street | 5057+20.00 | 5058+91.57 | 12 |
| | | | |
| | | | |

*Note: The area east of the UPRR (Sta. 5058+36.00 to 5058+41.59), use 9" P.C. CONCRETE PAVEMENT to match the Old US 75 pavement section.




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

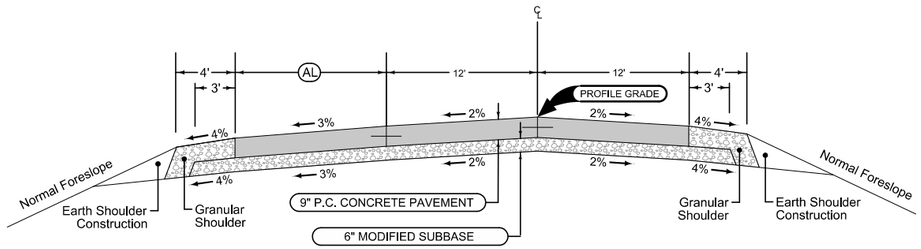
| STATION TO STATION | |
|---|---|
| 5009+60.00 | 5012+54.99 |
| 5014+93.20 | 5018+75.00 |
| | |

**SIDEROAD PAVING**
**235TH STREET**

## Auxiliary Lane

Jointing:
Transverse joints: CD, Match Mainline
Longitudinal joints: L-2 or KT-2

| STATION TO STATION | | (AL) Feet |
|---|---|---|
| 339+93.99 | 343+50.00 | 12 |
| | | |
| | | |




Section shown in the direction of stationing.

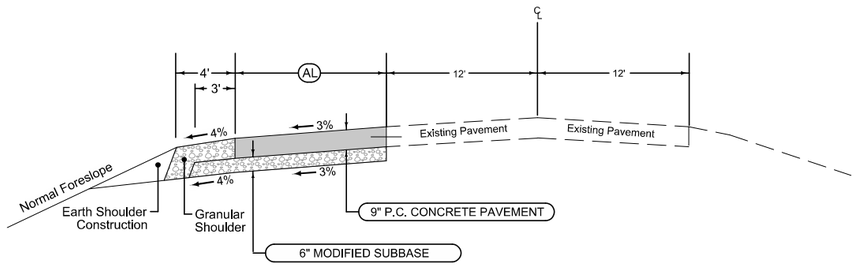
Jointing:
Transverse joints: CD at 15' spacing.
Longitudinal joints: L-2

| ROAD IDENTIFICATION | BEGIN STATION | END STATION |
|---|---|---|
| Old US 75 | 335+25.00 | 343+50.00 |
| | | |
| | | |

## Auxiliary Lane

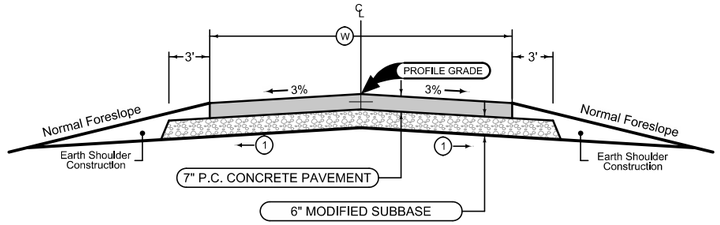
Jointing:
Transverse joints: CD, Match Mainline
Longitudinal joints: KT-2

| STATION TO STATION | | (AL) Feet |
|---|---|---|
| 343+50.00 | 345+60.00 | 12 |
| 345+60.00 | 347+40.00 | 12-0 |
| | | |
| | | |




Section shown in the direction of stationing.

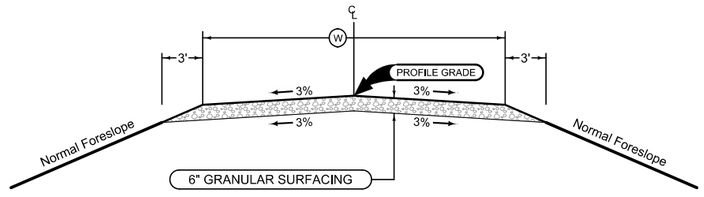
**SIDEROAD PAVING**
**OLD US 75**




(1) Subgrade parallels pavement slope. See L sheets for details.

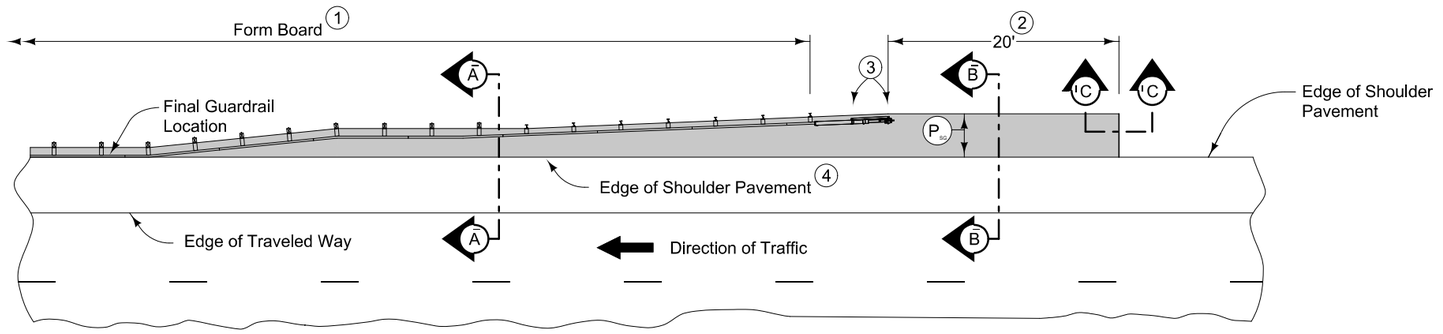
Jointing:
Transverse joints: CD at 15' spacing
Longitudinal joint: L-2

| LOCATION | | | DIMENSIONS |
|---|---|---|---|
| ROAD IDENTIFICATION | STATION TO STATION | | (W) Feet |
| Banner Avenue | 8000+12.00 | 8000+74.03 | 26 |
| Barker Avenue | 9002+41.69 | 9003+01.84 | 32 |
| | | | |
| | | | |
| | | | |
| | | | |

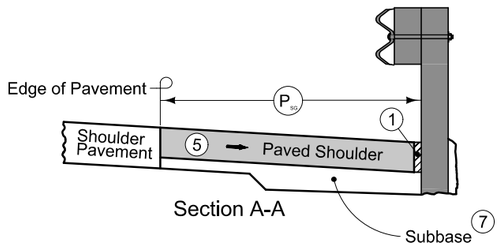



| LOCATION | | | DIMENSIONS |
|---|---|---|---|
| ROAD IDENTIFICATION | STATION TO STATION | | (W) Feet |
| Banner Avenue | 8000+74.03 | 8006+62.00 | 26 |
| Barker Avenue | 9001+85.00 | 9002+41.69 | 32 |
| ENTR5026 | 0+22.51 | 1+45.00 | 40 |
| ENTL5048 | 0+20.00 | 0+95.00 | 40 |
| ENTR5048 | 0+20.00 | 0+75.00 | 40 |
| ENTL5055 | 0+20.00 | 0+70.00 | 40 |
| ENTR5057 | 0+32.00 | 0+78.00 | 12 |
| ENTR5057 | 0+78.00 | 1+05.00 | 12-31 |
| ENTL8006 | 0+13.00 | 0+78.00 | 40 |
| ENTL8016 | 0+12.50 | 0+35.00 | 40 |
| | | | |
| | | | |

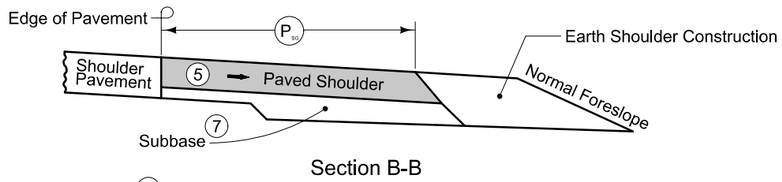
**SIDEROAD PAVING**
**BANNER AVENUE**
**BARKER AVENUE**
**FIELD ENTRANCES**




PLAN VIEW

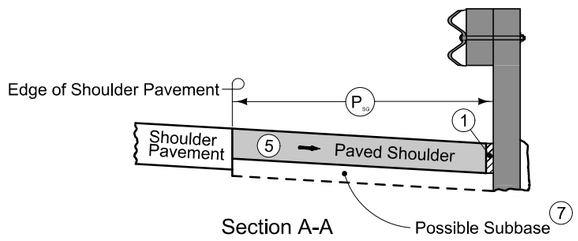



Section A-A

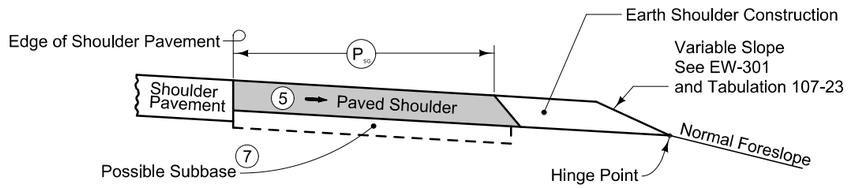



Section B-B

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.

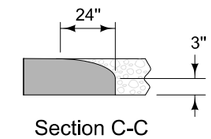
(3) Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.

(4) 'KT' (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.

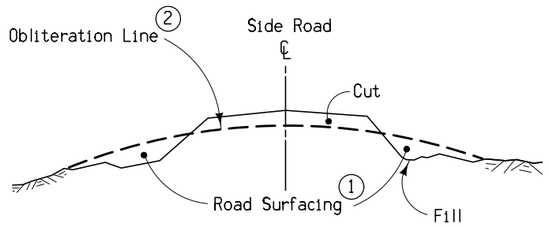
(7) Refer to other details in the plan.



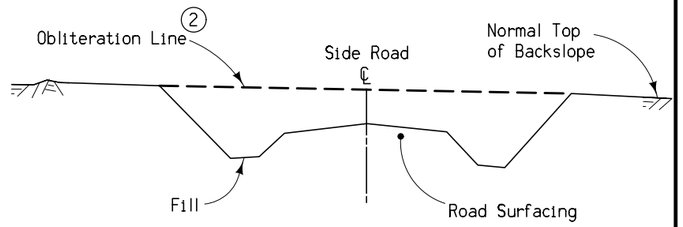

Section C-C
Roll down at granular shoulder or earth.

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

4302
Modified




Fill Section




Cut Section

(1) Existing road surfacing (granular material) shall be placed as shown unless otherwise directed by the Engineer or provided for in the detail project plans.

(2) When specified, the upper 1' to be suitable for vegetation (grass or crops).

Note:
The work of obliterating or reshaping old roadbeds shall be done at the direction of the Engineer.

Refer to cross sections for project grading.

# TYPICAL DETAILS FOR OBLITERATION EXISTING ROADBED

## 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
- Cistern
- L.P. Gas Tank (No Footing)
- 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

- FO2 - LONG LINES LTD. (Telephone)
TOM CONNORS
712-333-1352
tom.connors@longlines.biz

- FO - MIDWEST FIBER NETWORKS LCC
Contact Name
Contact Email

- G - NORTHERN NATURAL GAS COMPANY
(Gas Transmission)
JEFF LARSON
402-398-7618
Jeff.Larson@nngco.com

- SAN - SIOUX CITY (Sanitary Sewer, Water)
JON O'BRIEN
712-279-6135
jobrien@sioux-city.org

- E1 - WOODBURY COUNTY REC
(Electric Distribution)
Nate Bauer
712-873-3125
nbauer@woodburyrec.com

AT&T (Fiber Transmission)
LENNY VOHS
816-275-4014
lv2121@att.com

BLACK HILLS ENERGY (Gas)
BRAD FLEMING
402-221-2714
brad.fleming@blackhillscorp.com

FIBERCOMM (Fiber Distribution)
RICK WELCH
712-224-2054
rwelch@fibercomm.net

LUMEN CENTURYLINK (Fiber Distribution)
SEAN HOSTETTER
515-233-6404
sean.hostetter@lumen.com

MIDAMERICAN ENERGY COMPANY
(Electric Distribution)
CASEY MEINEN
712-233-4831
Casey.meinen@midamerican.com

MIDAMERICAN ENERGY COMPANY
(Electric Distribution)
WILLIAM SCHIERBROCK
563-333-8155
William.Schierbrock@midamerican.com

MIDAMERICAN ENERGY COMPANY (Gas)
TYLER AHLQUIST
712-277-7832
tjalquist@midamerican.com

MIDAMERICAN ENERGY COMPANY (Fiber)
BRIAN RECKER
515-242-4377
Brian.Recker@midamerican.com

- FO3 - SPRINT-TMOBILE (Fiber Transmission)
MIKE CHEBUL
402-522-2607
michael.j.chebul@t-mobile.com

## 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
- High Tension 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, K, & U)

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER D.1 |
|---|---|---|---|---|---|

9:27:40 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_D_97029278Z04.dgn

Sta. 1603+46.00
Begin SB Rumble Strip Patch

Sta. 1606+00.00
Begin SB Auxiliary Lane Construction

Construction Limits

Exist. ROW

Sta. 1612+62.40 Stage 2
Extend with 30" x 7' RCP

Sta. 1612+62.4
30"x155' RCP W/ 18" MEDIAN DRAIN
D.A.=Equalizer A-F

1605+00

1610+00

1615+00

I-29 SB

I-29 NB

Sta. 1604+30.00
Begin NB Auxiliary Lane Construction

Sta. 1596+32.00
Begin NB Rumble Strip Patch

Sta. 1612+62.40 Stage 2
Extend with 30" x 14' RCP

Sect. No. 17

Sta. 1601+99.3, 14.4 Rt.
24"x 61' RCP
D.A.=MEDIAN ONLY A-F

Exist. ROW

Construction Limits

0 FEET 50

1105 1100 1095 1090 1085 1080 1075 1070

RT +30
1084.00

LT +00
1084.19

+0.03% LT Ditch Grade

+0.06% RT Ditch Grade

RT +62
1084.46

LT +62
1084.38

+0.12% RT Ditch Grade

+0.18% LT Ditch Grade

Lt. U.A.C. I-29 Ditch — Ditch Grade

Med. U.A.C. Ditch Grade

Rt. U.A.C. I-29 Ditch — Ditch Grade

1602+00 1603+00 1604+00 1605+00 1606+00 1607+00 1608+00 1609+00 1610+00 1611+00 1612+00 1613+00 1614+00 1615+00 1616+00 1617+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER D.2 |
|---|---|---|---|---|---|

9:27:45 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_D_97029278Z04.dgn

Construction Limits

Exist. ROW

1620+00

1625+00

1630+00

Ramp C

I-29 SB

INTERSTATE 29

I-29 NB

No. 17

Ramp B

Exist. ROW

Construction Limits

0 FEET 50

1105
1100
1095
1090
1085
1080
1075
1070

+0.18% LT Ditch Grade

+0.12% RT Ditch Grade

RT +50
1085.50

LT +10
1086.65

| | | | | | |
|---|---|---|---|---|---|
| Lt. | Ditch Grade | | Ramp C Ditch | | U.A.C. Ditch Grade | Lt. |
| Med. | U.A.C. Ditch Grade | | | | | Med. |
| Rt. | Ditch Grade | Ramp B Ditch | | U.A.C. Ditch Grade | | Rt. |

1617+00 1618+00 1619+00 1620+00 1621+00 1622+00 1623+00 1624+00 1625+00 1626+00 1627+00 1628+00 1629+00 1630+00 1631+00 1632+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER D.3 |
|---|---|---|---|---|---|

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Exist. ROW

Do Not Disturb Existing Median
Drain or Crossing Culvert

1635+00

1640+00

1645+00

Ramp A

Install Cable Guardrail

I-29 SB

I-29 NB

Install Cable Guardrail

POT Sta. 1638+75.00 (ML029) =
POT Sta. 5013+74.10 (SR235)

Sta. 1632+98.3, 14.2 Rt.
24"x 62' RCP
D.A.=MEDIAN ONLY A-F

Exist. ROW

235th St.

0 FEET 50

Ramp D

1105
1100
1095
1090
1085
1080
1075
1070

Lt. U.A.C. Ditch Grade | Bridge Berm Grading | U.A.C. Ditch Grade

Med. U.A.C. Ditch Grade

Rt. U.A.C. Ditch Grade | Bridge Berm Grading | U.A.C. Ditch Grade

1632+00 1633+00 1634+00 1635+00 1636+00 1637+00 1638+00 1639+00 1640+00 1641+00 1642+00 1643+00 1644+00 1645+00 1646+00 1647+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER D.4 |
|---|---|---|---|---|---|

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Do Not Disturb Exist. Median
Drain or Crossing Culvert

Carbon Capture Pipeline (Location Approx.)

Approx. Mid-American
Energy Easement

Exist. ROW

Construction Limits

Ramp A

1650+00

1655+00

1660+00

I-29 SB

INTERSTATE 29

I-29 NB

Sta. 1647+48.1, 140 Rt.
24" x 61' RCP
D.A.=MEDIAN ONLY

Ramp D

Do Not Disturb
Exist. Utility Pole

Close Exist. Field Entrance

Banner Ave.

0 FEET 50

Construction Limits

Exist. ROW

-0.20% RT Ditch Grade

RT +58
1086.50

LT +00
1086.00

-0.26% LT Ditch Grade

U.A.C. Ditch Grade

Lt. Ramp A Ditch Grade Ditch Grade Lt.

Med. U.A.C. Ditch Grade Med.

Rt. U.A.C. Ditch Grade Ramp D Ditch Grade Ditch Grade Rt.

1105 1100 1095 1090 1085 1080 1075 1070

1647+00 1648+00 1649+00 1650+00 1651+00 1652+00 1653+00 1654+00 1655+00 1656+00 1657+00 1658+00 1659+00 1660+00 1661+00 1662+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER D.5 |
|---|---|---|---|---|---|

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Exist. ROW

Construction Limits

Sta. 1669+49.60 Stage 2
Extend
with 24" x 10' RCP

Sta. 1669+49.6, 8.8 Lt.
24"x77' RCP
D.A.=MEDIAN ONLY A-F

Sta. 1671+20.00
End SB Auxiliary Lane Construction

Sta. 1672+98.1
8'x8'x200' RCB
D.A.=1280 A-F Plans

Liberty TWP.
T-87N R-47W
SEC. 7

Sta. 1679+26.00
End SB Rumble Strip Patch

1665+00

1670+00

PI 1670+00.00

1675+00

I-29 SB

I-29 NB

INTERSTATE 29

PC 1664+95.20

PT 1675+04.15

Δ = 05°02'41.15" (RT)
T = 504.80
L = 1008.95
R = 11459.16
E = 11.11
e = 2.0%

Sta. 1669+68.65
End NB Auxiliary Lane Construction

Sta. 1671+95.00
End NB Rumble Strip Patch

Construction Limits

Sect. No. 8

0 FEET 50

1105
1100
1095
1090
1085
1080
1075
1070

RT +15
1083.80

-0.20% RT Ditch Grade

+0.34% RT Ditch Grade

RT +69
1085.70

-0.26% LT Ditch Grade

+0.00% LT Ditch Grade

LT +50
1082.00

LT +20
1082.00

Lt. Ditch Grade U.A.C. Ditch Grade

Med. U.A.C. Ditch Grade

Rt. Ditch Grade U.A.C. Ditch Grade

1662+00 1663+00 1664+00 1665+00 1666+00 1667+00 1668+00 1669+00 1670+00 1671+00 1672+00 1673+00 1674+00 1675+00 1676+00 1677+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER D.6 |
|---|---|---|---|---|---|

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Sta. 5004+50.00 Stage 1
Install 87' 24" 3750D RCP
235th St

Δ = 15°20'48.46" (LT)
T = 269.47
L = 535.70
R = 2000.00
E = 18.07
e = 5.00%
L = 170
x = 68

Sta. 5000+16.07
Begin Construction

Construction Limits

Construction Limits

Ramp A

Ramp C

I-29 SB

I-29 NB

Exist. ROW

Exist. ROW

POT Sta.1638+75.00 (ML029) =
POT Sta. 5013+74.10 (SR235)

Sta. 5012+80.80 Stage 1
Install 250' 24" RCP
235th St

235th St.

0 50 FEET

Port Neal Rd.

235th St.

PC 5002+42.43

PT 5005+41.88

PT 5008+08.13

5005+00

5010+00

1000+00

1640+00

5015+00

Sta. 5000+16.07
Elev. 1091.43
Begin Construction

VPI = +50.00
ELV = 1089.38
L = 450.00
K = 127

VPI = +00.00
ELV = 1120.20
L = 700.00
K = 138

+2.68%
-2.40%

-0.07% LT Ditch Grade
-0.88%
+2.68%
+0.07% RT Ditch Grade

LT +30
1089.30

RT +34
1088.65

LT +46
1089.00

+3.00% LT Ditch Grade

RT +50
1088.93

+2.14% RT Ditch Grade

LT +96
1090.50

RT +00
1090.00

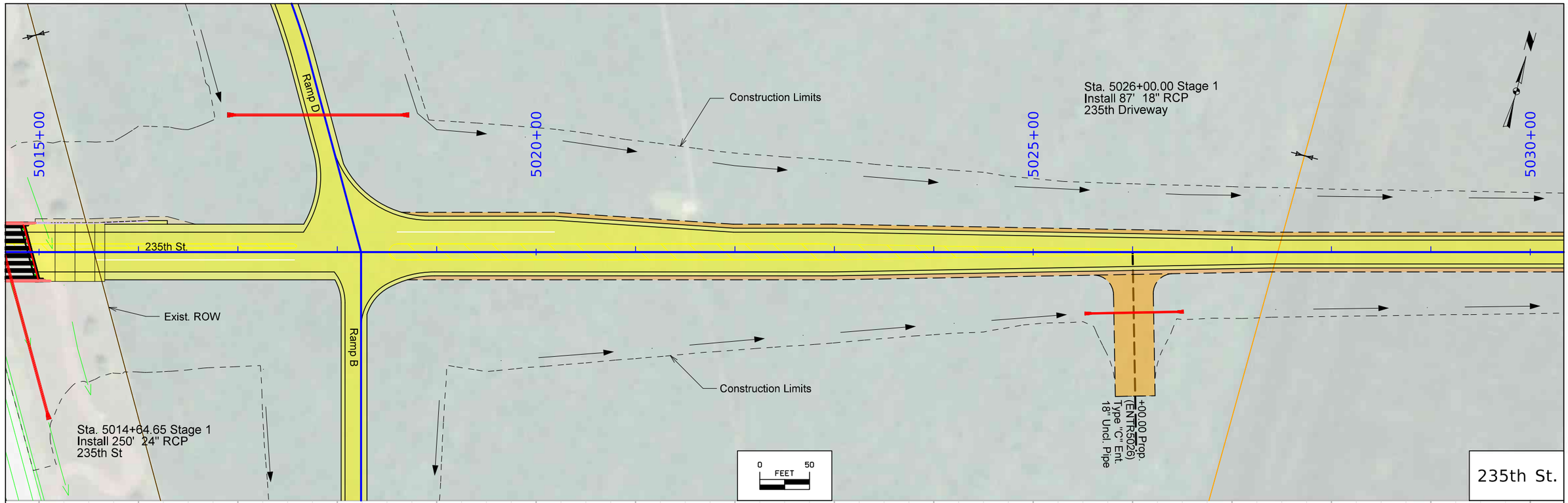
-0.10% LT Ditch Grade

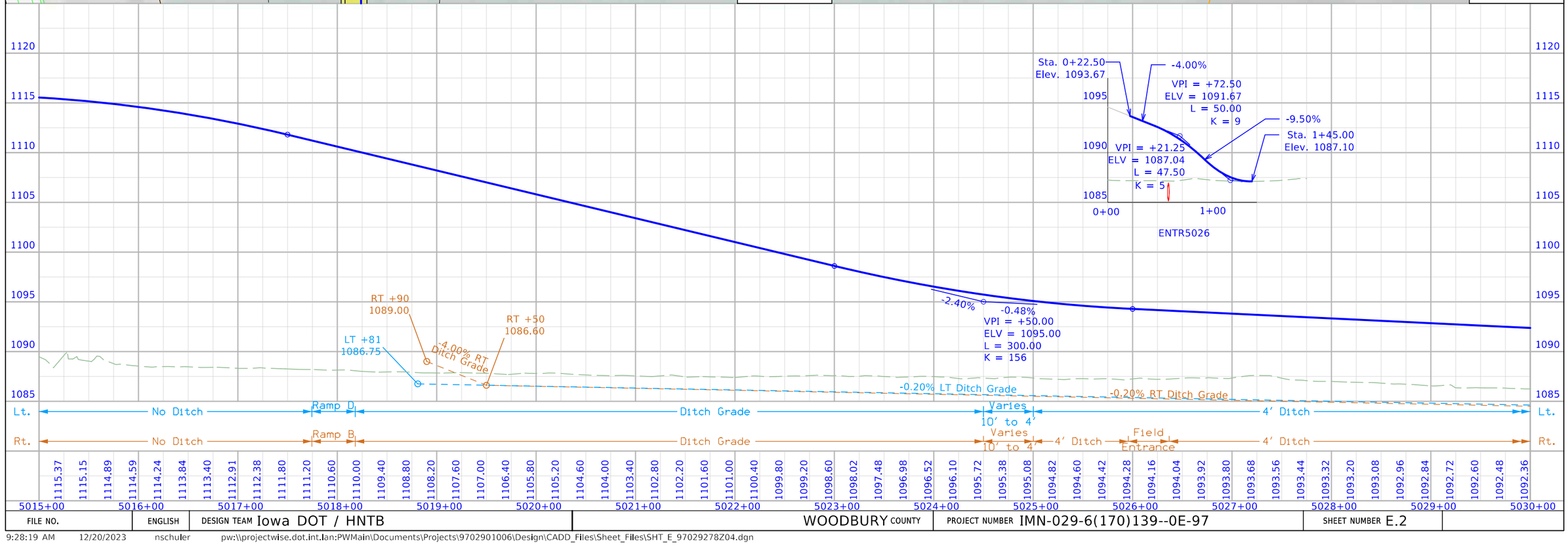
-0.10% RT Ditch Grade

LT +96
1090.00

RT +00
1089.50

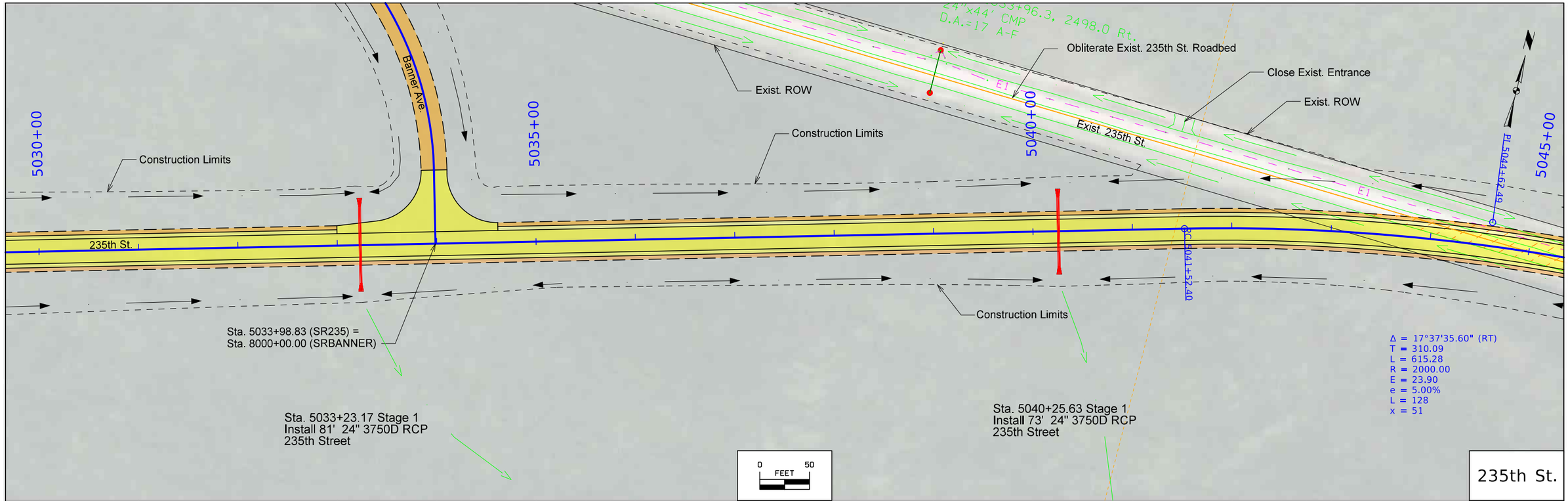
| | | |

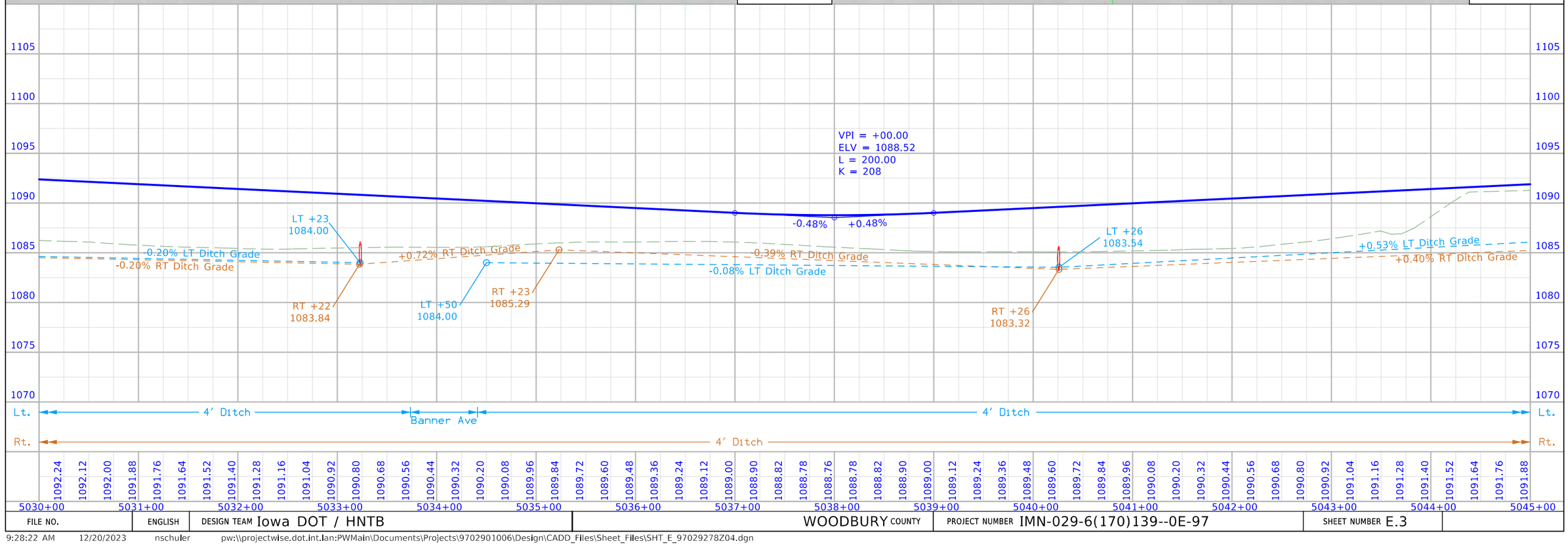



| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER E.2 |
|---|---|---|---|---|---|

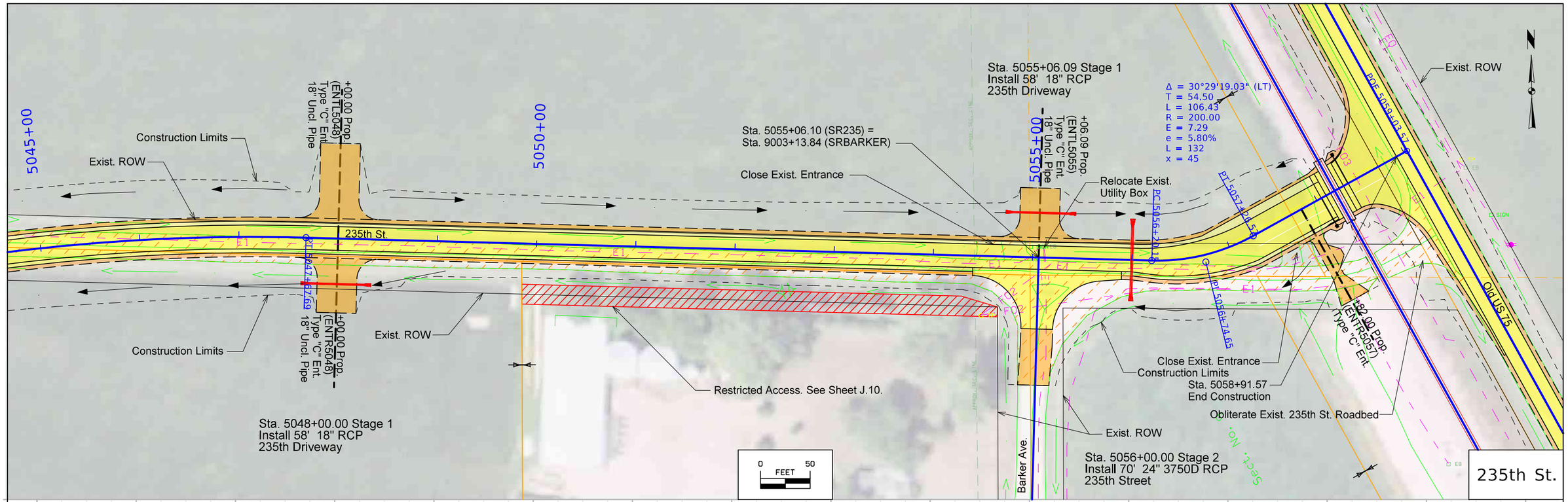
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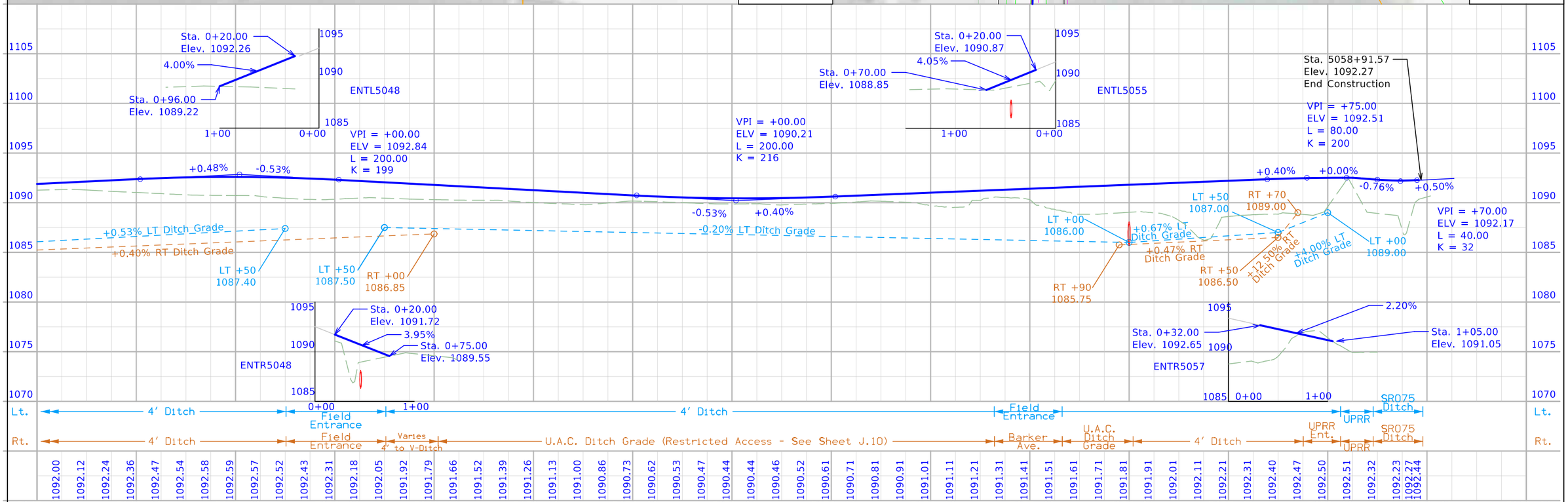



| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER E.3 |
|---|---|---|---|---|---|

9:28:22 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_E_97029278Z04.dgn




| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER E.4 |
|---|---|---|---|---|---|

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Sect. No. 9

Construction Limits

Construction Limits

Exist. ROW

235th St.

Do Not Disturb Exist.
Fiber and Electric

335+00

340+00

345+00

UPRR

Exist. ROW

Sta. 335+25.00
Begin Construction

15:1 Taper for 180'

Old US 75

Exist. ROW

Construction Limits

POT Sta. 339+27.97 (SR075) =
POE Sta. 5059+03.57 (SR235)

Sta. 343+50.00
End Construction

Sta. 347+40.00
End Widening

0 50
FEET

Old
US 75

1105
1100
1095
1090
1085
1080
1075
1070

Sta. 335+25.00
Elev. 1090.58
Begin Construction

VPI = +25.00
ELV = 1090.44
L = 200.00
K = 221

VPI = +50.00
ELV = 1092.91
L = 200.00
K = 132

VPI = +50.00
ELV = 1090.63
L = 200.00
K = 253

Sta. 343+50.00
Elev. 1090.66
End Construction

-0.14%
+0.76%
+0.76%
-0.76%
-0.76%
+0.03%

+0.48% LT Ditch Grade
-0.57% LT Ditch Grade
+0.77% LT Ditch Grade

LT +25
1087.00

LT +40
1088.50

LT +00
1088.00

LT +50
1086.00

LT +40
1089.00

Lt. Ditch Grade 235th St. Ditch Grade

Rt. U.A.C. Ditch Grade

1090.58 1090.56 1090.57 1090.60 1090.66 1090.76 1090.88 1091.02 1091.20 1091.39 1091.58 1091.77 1091.96 1092.15 1092.31 1092.43 1092.50 1092.53 1092.50 1092.43 1092.31 1092.15 1091.96 1091.77 1091.58 1091.39 1091.21 1091.06 1090.93 1090.83 1090.75 1090.69 1090.66 1090.66

333+00 334+00 335+00 336+00 337+00 338+00 339+00 340+00 341+00 342+00 343+00 344+00 345+00 346+00 347+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER E.5 |
|---|---|---|---|---|---|

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Construction Limits

Construction Limits

Exist. ROW

+22.00 Prop. (ENTL8006) Type "C" Ent. 18" Uncl. Pipe

U.A.C. Exist. Banner Ave.

Construction Limits

Sta. 8006+62.00
End Construction

Sta. 8006+22.00 Stage 1
Install 52' 18" RCP
Banner Driveway

8005+00 PT 8005+03.33

Δ = 72°32'06.53" (LT)
T = 249.46
L = 430.43
R = 340.00
E = 81.70
e = Normal Crown

Construction Limits

Exist. ROW

235th St.

8000+00

PC 8000+72.90

Obliterate Exist. 235th St. Roadbed

Banner Ave.

Sta. 8000+12.00
Begin Construction

0 50 FEET

Banner Avenue

Sta. 0+13.00
Elev. 1088.90

3.71%

Sta. 0+87.00
Elev. 1086.49

1090
1085
1+00
0+00
ENTL8006

Sta. 8000+12.00
Elev. 1090.21
Begin Construction

VPI = +00.00
ELV = 1088.45
L = 150.00
K = 57

VPI = +50.00
ELV = 1090.04
L = 150.00
K = 157

Sta. 8006+62.00
Elev. 1089.14
End Construction

-2.00%
+0.64%
+0.64%
-0.32%

+0.20% LT Ditch Grade

+0.06% RT Ditch Grade

LT +50
1084.10

RT +50
1084.00

LT +90
1085.16

RT +62
1084.34

1105 1100 1095 1090 1085 1080 1075 1070

Lt. 4' Ditch Field Entrance

Rt. 4' Ditch

1090.21 1089.95 1089.50 1089.17 1088.94 1088.83 1088.82 1088.93 1089.09 1089.24 1089.40 1089.56 1089.70 1089.80 1089.86 1089.88 1089.86 1089.80 1089.72 1089.64 1089.56 1089.48 1089.40 1089.32 1089.24 1089.16 1089.07 1089.04

8000+00 8001+00 8002+00 8003+00 8004+00 8005+00 8006+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER E.6 |
|---|---|---|---|---|---|

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Sta. 8016+00.00 Stage 1
Install 46' 18" RCP
Banner Driveway

8010+00

8015+00

8020+00

+00.00 Prop. (ENTL8016) Type "C" Ent. 18" Uncl. Pipe

Construction Limits

Approx. Mid-American Energy Easement

Exist. ROW

Exist. ROW

0 50 FEET

Banner Avenue

Elev. 1089.37
Off. +12.00
-4.67%
Elev. 1088.31
Off. +34.50
1+00 0+00
ENTL8016

1105 1100 1095 1090 1085 1080 1075 1070 1065 1060

8007+00 8008+00 8009+00 8010+00 8011+00 8012+00 8013+00 8014+00 8015+00 8016+00 8017+00 8018+00 8019+00 8020+00 8021+00 8022+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER E.7 |
|---|---|---|---|---|---|

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Construction Limits
Exist. ROW
Restricted Access. See Sheet J.10.
9000+00
Exist. ROW
U.A.C. Exist. Entrance
Barker Ave.
Sta. 9001+85.00
Begin Construction
Exist. ROW
Construction Limits
Exist. ROW
Sect. No. 9
235th St.
Construction Limits
Exist. ROW
Sta. 9003+01.84
End Construction
5055+00
Construction Limits
UPRR
Old US 75
0 50 FEET
Barker Avenue

Sta. 9001+85.00
Elev. 1090.20
Begin Construction
Sta. 9003+01.84
Elev. 1091.19
End Construction
-0.24%
+2.00%
VPI = +45.00
ELV = 1090.05
L = 100.00
K = 45
U.A.C. Ditch Grade
U.A.C. Ditch Grade
1090.20 1090.16 1090.20 1090.38 1090.70 1091.15
9002+00
9003+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER E.8 |
|---|---|---|---|---|---|

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# SURVEY INDEX

**County: Woodbury**
**PIN: 06-97-029-010**
**Project Number: IM-029-6(278)139--13-97**
**Location: New I-29 Interchange approx. 2.5 mi S of the Co Rd D38 Interchange at Sergeant Bluff**
**Work Code: 9040-Preliminary Engineering**
**Project Directory: 9702901006**

## Survey Personnel

Clayton Henningsen – Survey Party Chief
Jason Arn – Survey Party Chief
Robert Fredrickson – Assistant Survey Party Chief

## Date(s) of Survey

| | |
|---|---|
| Begin Date | 12/04/2023 |
| End Date | 05/30/2023 |

## General Information

This survey is for New I-29 Interchange approx. 2.5 mi S of the Co Rd D38 Interchange at Sergeant Bluff. This survey request was for the I-29 corridor only. Partial Field DTM with Photo Control. Full Field DTM Survey was completed for survey area's not covered by Photo imagery.

## 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 4 (U.S. SURVEY FOOT)**
**VERTICAL DATUM: NAVD88**
**GEOID MODEL: 2018u2**

## Alignment Information

**SURMLA29**

The horizontal alignment for I-29 this survey is a retrace of P.C.C. Paving Plans No. I-29-6(10)136. Survey stationing was equated to the plan PI at Sta. 1670+00 and run back and ahead without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PT Sta. 1591+06.81 P.C.C. Paving Plans No. I-29-6(10)136
Survey PT Sta. 1591+07.27

PI Sta. 1670+00 P.C.C. Paving Plans No. I-29-6(10)136
Survey PI Sta. 1670+00

TS Sta. 1754+64.76 P.C.C. Paving Plans No. I-29-6(10)136
Survey TS Sta. 1754+64.64

**SURMLB75**

The horizontal alignment for county road K45 (old hwy 75) has been provided by the district 3 survey office.

## CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.




HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 04 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u2

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

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING
HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment)
Ia. Regional Coordinate System Zone 04 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u2

| Point Name | Northing | Easting | Elevation | Feature Definition-Description |
|---|---|---|---|---|
| | | | | |
| 97I291378 | 8538986.96 | 14093201.77 | 1084.33 | CP FENO MONUMENT SET IN EAST ROW I-29 |
| 97I291393 | 8545559.95 | 14089126.55 | 1090.71 | CP FENO MONUMENT SET IN TOP OF BACKSLOPE AT SOUTHBOUND I29 REST AREA APPROX 600 FT S OF BUILDING |
| 97K25023 | 8542503.05 | 14089982.04 | 1091.12 | CP FENO MONUMENT SET IN N EDGE OF FIELD ENT ON EAST SIDE K25 APPROX 450 FT S INTERSECTION K25 & 235TH ST |
| N128 | 8539694.98 | 14097356.05 | 1085.94 | CP NGS MONUMENT AS DESCRIBED IN GOOD CONDITION |
| Y181 | 8546901.00 | 14093405.44 | 1090.94 | CP NGS PIN AS DESCRIBED IN GOOD CONDITION |

# ALIGNMENT COORDINATES

| Name | Location | Point on Tangent | | | Begin Spiral | | | Begin Curve | | | Simple Curve PI or Master PI of SCS | | | End Curve | | | End Spiral | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Station | Coordinates | | Station | Coordinates | | Station | Coordinates | | Station | Coordinates | | Station | Coordinates | | Station | Coordinates | |
| | | | Y (Northing) | X (Easting) | | Y (Northing) | X (Easting) | | Y (Northing) | X (Easting) | | Y (Northing) | X (Easting) | | Y (Northing) | X (Easting) | | Y (Northing) | X (Easting) |
| ML I-29 | | | | | | | | | | | | | | | | | | | |
| | Point ML029_1 | 1591+07.27 | 8537887.85 | 14093705.11 | | | | | | | | | | | | | | | |
| | Curve ML029_2 | | | | | | | 1664+95.20 | 8544270.35 | 14089984.19 | 1670+00.00 | 8544706.45 | 14089729.95 | 1675+04.15 | 8545163.22 | 14089515.04 | | | |
| | Point ML029_3 | 1754+64.31 | 8552365.97 | 14086126.16 | | | | | | | | | | | | | | | |
| Ramp A | Point RPA_1 | 1000+00.00 | 8541911.23 | 14090953.36 | | | | | | | | | | | | | | | |
| | Curve RPA_2 | | | | | | | 1006+60.12 | 8542548.14 | 14090779.82 | 1008+55.89 | 8542737.02 | 14090728.35 | 1010+50.42 | 8542912.34 | 14090641.24 | | | |
| | Point RPA_3 | 1014+61.31 | 8543280.31 | 14090458.39 | | | | | | | | | | | | | | | |
| Ramp B | Point RPB_1 | 2000+00.00 | 8540560.38 | 14092250.04 | | | | | | | | | | | | | | | |
| | Curve RPB_2 | | | | | | | 2002+31.96 | 8540768.11 | 14092146.82 | 2004+27.73 | 8540943.42 | 14092059.70 | 2006+22.25 | 8541132.30 | 14092008.24 | | | |
| | Point RPB_3 | 2016+51.10 | 8542124.96 | 14091737.76 | | | | | | | | | | | | | | | |
| Ramp C | Curve RPC_1 | | | | | | | 3000+00.00 | 8540528.97 | 14092094.77 | 3003+05.19 | 8540792.63 | 14091941.06 | 3006+05.71 | 8540998.44 | 14091715.71 | | | |
| | Curve RPC_2 | | | | | | | 3009+67.32 | 8541242.30 | 14091448.70 | 3012+72.51 | 8541448.11 | 14091223.35 | 3015+73.03 | 8541711.77 | 14091069.64 | | | |
| | Point RPC_3 | 3018+03.91 | 8541911.23 | 14090953.36 | | | | | | | | | | | | | | | |
| Ramp D | Point RPD_1 | 4000+00.00 | 8542124.96 | 14091737.76 | | | | | | | | | | | | | | | |
| | Curve RPD_2 | | | | | | | 4001+98.68 | 8542296.60 | 14091637.70 | 4003+48.00 | 8542425.60 | 14091562.50 | 4004+92.90 | 8542512.68 | 14091441.20 | | | |
| | Curve RPD_3 | | | | | | | 4008+32.05 | 8542710.47 | 14091165.70 | 4012+58.67 | 8542959.27 | 14090819.14 | 4016+72.70 | 8543327.84 | 14090604.27 | | | |
| SR075 | Point SR075_1 | 277+68.26 | 8537444.32 | 14098606.83 | | | | | | | | | | | | | | | |
| | Point SR075_2 | 386+74.10 | 8547063.05 | 14093467.04 | | | | | | | | | | | | | | | |
| SR235 | Point SR235_1 | 5000+00.00 | 8541788.09 | 14089955.99 | | | | | | | | | | | | | | | |
| | Curve SR235_2 | | | | | | | 5002+72.41 | 8541787.60 | 14090228.33 | 5005+41.87 | 8541787.10 | 14090497.79 | 5008+08.11 | 8541857.94 | 14090757.78 | | | |
| | Curve SR235_3 | | | | | | | 5041+52.40 | 8542737.13 | 14093984.43 | 5044+62.49 | 8542818.65 | 14094283.62 | 5047+67.69 | 8542805.74 | 14094593.44 | | | |
| | Curve SR235_4 | | | | | | | 5056+20.15 | 8542770.27 | 14095445.17 | 5056+74.65 | 8542768.00 | 14095499.62 | 5057+26.58 | 8542793.68 | 14095547.70 | | | |
| | Point SR235_5 | 5059+03.57 | 8542877.06 | 14095703.83 | | | | | | | | | | | | | | | |
| SRBANNER | Point SRBANNER_1 | 8000+00.00 | 8542539.02 | 14093257.36 | | | | | | | | | | | | | | | |
| | Curve SRBANNER_2 | | | | | | | 8000+72.94 | 8542609.39 | 14093238.19 | 8003+22.40 | 8542850.09 | 14093172.63 | 8005+03.37 | 8542859.75 | 14092923.34 | | | |
| | Curve SRBANNER_3 | | | | | | | 8022+29.18 | 8542926.70 | 14091198.83 | 8024+35.15 | 8542934.69 | 14090993.02 | 8026+06.10 | 8543112.33 | 14091213.43 | | | |
| | Point SRBANNER_4 | 8036+22.52 | 8543988.95 | 14090374.34 | | | | | | | | | | | | | | | |
| SRBARKER | Point SRBARKER_1 | 9000+00.00 | 8542461.45 | 14095318.15 | | | | | | | | | | | | | | | |
| | Point SRBARKER_2 | 9003+13.84 | 8542775.02 | 14095331.21 | | | | | | | | | | | | | | | |
| SRPORTNEAL | Point SRPORTNEAL | 6000+00.00 | 8540306.80 | 14089958.08 | | | | | | | | | | | | | | | |
| | Point SRPORTNEAL | 6026+63.10 | 8542969.90 | 14089961.51 | | | | | | | | | | | | | | | |
| ENTR5026 | Point ENTR5026 | 0+00.00 | 8542329.01 | 14092486.63 | | | | | | | | | | | | | | | |
| | Point ENTR5026 | 2+00.00 | 8542137.04 | 14092542.71 | | | | | | | | | | | | | | | |
| ENTR5048 | Point ENTR5048 | 0+00.00 | 8542804.40 | 14094625.73 | | | | | | | | | | | | | | | |
| | Point ENTR5048 | 1+50.00 | 8542654.53 | 14094619.48 | | | | | | | | | | | | | | | |
| ENTL5048 | Point ENTL5048 | 0+00.00 | 8542804.40 | 14094625.73 | | | | | | | | | | | | | | | |
| | Point ENTL5048 | 1+50.00 | 8542954.27 | 14094631.97 | | | | | | | | | | | | | | | |
| ENTL5055 | Point ENTL5055 | 0+00.00 | 8542775.02 | 14095331.21 | | | | | | | | | | | | | | | |
| | Point ENTL5055 | 1+50.00 | 8542924.89 | 14095337.45 | | | | | | | | | | | | | | | |
| ENTR5057 | Point ENTR5057 | 0+00.00 | 8542819.79 | 14095596.59 | | | | | | | | | | | | | | | |
| | Point ENTR5057 | 1+50.00 | 8542687.47 | 14095667.25 | | | | | | | | | | | | | | | |
| ENTL8006 | Point ENTL8006 | 0+00.00 | 8542864.36 | 14092804.80 | | | | | | | | | | | | | | | |
| | Point ENTL8006 | 1+50.00 | 8542714.47 | 14092789.98 | | | | | | | | | | | | | | | |
| ENTL8016 | Point ENTL8016 | 0+00.00 | 8542902.29 | 14091827.53 | | | | | | | | | | | | | | | |
| | Point ENTL8016 | 1+50.00 | 8542752.41 | 14091821.72 | | | | | | | | | | | | | | | |

# SPIRAL OR CIRCULAR CURVE DATA

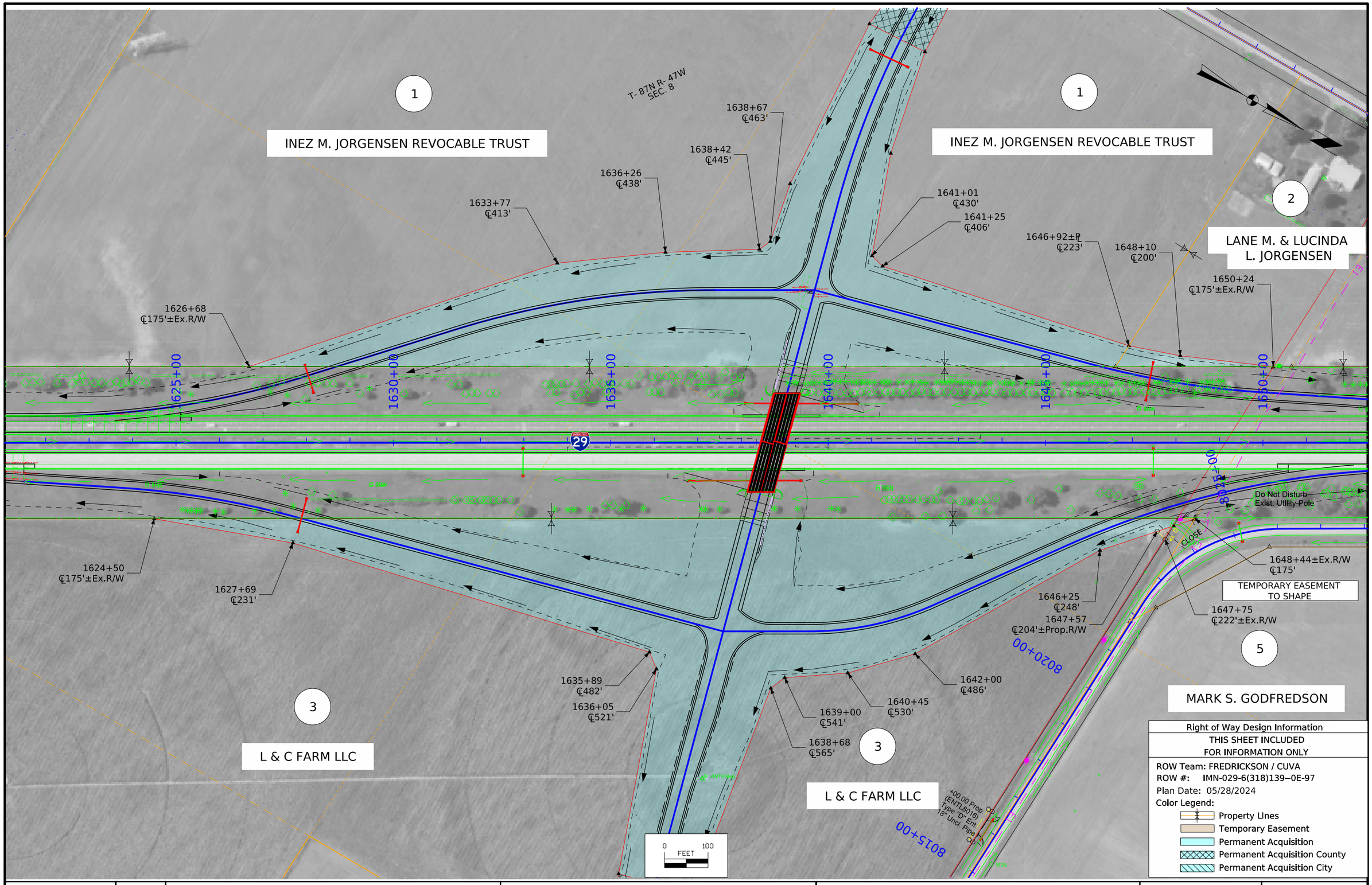
| Name | Location | ΔSCS | Horizontal Alignment Data | | | | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Spiral Data | | | | | | | | Curve Data | | | | |
| | | | θS | Ls | Ts | Es | Xc | Yc | L.T. | S.T. | ΔC | T | L | R | E | |
| ML I-29 | Curve ML029_2 | | | | | | | | | | 5.045° | 504.803 | 1008.953 | 11459.160 | 11.113 | |
| Ramp A | Curve RPA_2 | | | | | | | | | | 11.181° | 195.768 | 390.294 | 2000.00 | 9.558 | |
| Ramp B | Curve RPB_2 | | | | | | | | | | 11.181° | 195.768 | 390.284 | 2000.00 | 9.558 | |
| Ramp C | Curve RPC_1 | | | | | | | | | | 17.352° | 305.194 | 605.715 | 2000.00 | 23.152 | |
| Ramp C | Curve RPC_2 | | | | | | | | | | 17.352° | 305.194 | 605.715 | 2000.00 | 23.152 | |
| Ramp D | Curve RPD_1 | | | | | | | | | | 24.083° | 149.319 | 294.227 | 700.00 | 15.749 | |
| Ramp D | Curve RPD_2 | | | | | | | | | | 24.083° | 426.625 | 840.650 | 2000.00 | 44.996 | |
| SR235 | Curve SR235_2 | | | | | | | | | | 15.347° | 269.465 | 535.704 | 2000.00 | 18.071 | |
| SR235 | Curve SR235_3 | | | | | | | | | | 17.627° | 310.091 | 615.283 | 2000.00 | 23.896 | |
| SR235 | Curve SR235_4 | | | | | | | | | | 30.489° | 54.505 | 106.425 | 200.00 | 7.294 | |
| SRBANNER | Curve SRBANNER_2 | | | | | | | | | | 72.535° | 249.46 | 430.43 | 340.00 | 81.70 | |
| SRBANNER | Curve SRBANNER_3 | | | | | | | | | | 57.221° | 205.964 | 376.921 | 376.43 | 52.663 | |



# SUPERELEVATION DATA

See PV-300 Series

| Road Identification | Circular Curve or Spiral Curve Name | Radius | Superelevation Data | | | Standard Road Plan | Section A-A | Section B-B | Section C-C | Section D-D | Section E-E | Section F-F | Case A | Case B | Case C | Case S | Case T | Case U | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | e | L | x | | | | | | | | | | | | | | |
| | | FT | % | FT | FT | | | | | | | | | | | | | | |
| RPA | RPA_1 | 2000 | 5.4 | 168 | 62 | PV-303 | 1006+04.52 | | 1006+60.12 | 1007+10.52 | | | | | | 1006+66.96 | 1006+66.96 | | |
| | | | | | | | 1011+06.02 | | 1010+50.42 | 1010+00.02 | | | | | | 1010+43.58 | 1010+43.58 | | |
| RPB | RPB_1 | 2000 | 5.4 | 168 | 62 | PV-303 | 2001+76.36 | | 2002+31.96 | 2002+82.36 | | | | | | 2002+38.80 | 2002+38.80 | | |
| | | | | | | | 2006+77.85 | | 2006+22.25 | 2005+71.85 | | | | | | 2006+15.41 | 2006+15.41 | | |
| RPC | RPC_1 | 2000 | 5.4 | 168 | 62 | PV-303 | 2999+44.40 | | 3000+00.00 | 3000+50.40 | | | | | | 3000+06.84 | 3000+06.84 | | |
| | | | | | | | 3006+61.31 | | 3006+05.71 | 3005+55.31 | | | | | | 3005+98.87 | 3005+98.87 | | |
| RPC | RPC_2 | 2000 | 3.4 | 82 | 48 | PV-303 | 3008+61.92 | 3009+09.92 | 3009+67.32 | 3009+91.92 | | | | | | | | | |
| | | | | | | | 3016+78.43 | 3016+30.43 | 3015+73.03 | 3015+48.43 | | | | | | | | | |
| RPD | RPD_1 | 700 | 5.6 | 135 | 48 | PV-303 | 4000+61.58 | 4001+09.58 | 4001+98.68 | 4002+44.58 | | | | | | | | | |
| | | | | | | | 4006+35.40 | 4005+87.40 | 4004+92.90 | 4004+52.40 | | | | | | 4004+90.97 | 4004+90.97 | | |
| RPD | RPD_2 | 2000 | 5.4 | 168 | 62 | PV-303 | 4007+76.45 | | 4008+32.05 | 4008+82.45 | | | | | | 4008+38.89 | 4008+38.89 | | |
| | | | | | | | 4017+28.30 | | 4016+72.70 | 4016+22.30 | | | | | | 4016+65.86 | 4016+65.86 | | |
| SR235 | SR235_1 | 2000 | 5.0 | 170 | 68 | PV-301 | 5000+85.41 | 5001+53.41 | 5002+21.41 | 5003+23.41 | | | 5002+72.41 | | | 5002+89.41 | 5002+89.41 | | |
| | | | | | | | 5009+95.11 | 5009+27.11 | 5008+59.11 | 5007+57.11 | | | 5008+08.11 | | | 5007+91.11 | 5007+91.11 | | |
| SR235 | SR235_2 | 2000 | 5.0 | 128 | 51 | PV-301 | 5040+11.80 | 5040+62.80 | 5041+13.80 | 5041+90.80 | | | 5041+52.40 | | | 5041+65.20 | 5041+65.20 | | |
| | | | | | | | 5049+08.29 | 5048+57.29 | 5048+06.29 | 5047+29.29 | | | 5047+67.69 | | | 5047+54.89 | 5047+54.89 | | |
| SR235 | SR235_3 | 200 | 5.8 | 132 | 45 | PV-301 | 5054+82.75 | 5055+27.75 | 5055+72.75 | 5056+59.75 | | | 5056+20.15 | | | 5056+18.78 | 5056+18.78 | | |
| | | | | | | | | 5058+15.50 | 5057+70.50 | 5056+83.50 | | | 5057+26.58 | | | 5057+24.55 | 5057+24.55 | | |




Right of Way Design Information

THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: FREDRICKSON / CUVA
ROW #: IMN-029-6(318)139--0E-97
Plan Date: 05/28/2024
Color Legend:

- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER H.1 | |
|---|---|---|---|---|---|---|

9:19:12 AM 5/28/2024 afredri pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\9702901006\ROW\ROW_97029318.dgn

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1

INEZ M. JORGENSEN REVOCABLE TRUST

T- 87N R- 47W
SEC. 8

6017+20
℄33'±Ex.R/W

6016+90
℄46'

6015+77
℄53'

5001+02
℄53'

5004+00
℄63'

5006+55
℄82'

5005+00

5010+00

1005+00

4005+00

5015+00

1640+00

1000+00

INTERSTATE 29

235TH STREET

PORT NEAL ROAD

5000+83
℄53'

6013+74
℄33'±Ex.R/W

5004+00
℄80'

ACQUIRE ACCESS CONTROL ON
S.R. FROM 5004+00 TO 5024+25

5007+90
℄118'

3015+00

1

INEZ M. JORGENSEN REVOCABLE TRUST

0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: FREDRICKSON / CUVA
ROW #: IMN-029-6(318)139--0E-97
Plan Date: 05/28/2024
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition
Permanent Acquisition County
Permanent Acquisition City

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER HE.1 |
|---|---|---|---|---|---|

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7D

ORTON SLOUGH DRAINAGE DITCH

3

L & C FARM LLC

T- 87N R- 47W
SEC. 8

4

FRED L. & MARGARET
GODFREDSON
REVOCABLE TRUST

4005+00

4000+00

2015+00

8010+00

5015+00

5020+00

5025+00

5030+00

RAMP D (RPD)

RAMP B (RPB)

235TH STREET

CLOSE

+22.00 Prop.
(ENTL8006)
Type "D" Ent.
18" Uncl. Pipe

5024+25
℄88'

5027+65±P
℄70'

5027+26±P
℄72'

5025+48
℄81'±Prop.R/W

5026+55
℄76'±Prop.R/W

5025+74
℄156'

+00.00 Prop.
(ENTR5026)
Type "D" Ent.
18" Uncl. Pipe

5026+32
℄155'

ACQUIRE ACCESS CONTROL ON
S.R. FROM 5004+00 TO 5024+25

TEMPORARY EASEMENT TO
CONSTRUCT ENTRANCE

A ANTENNA

INTERSTATE 29

0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: FREDRICKSON / CUVA
ROW #: IMN-029-6(318)139--0E-97
Plan Date: 05/28/2024
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER HE.2 | |
|---|---|---|---|---|---|---|

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5

MARK S. GODFREDSON

4

FRED L. & MARGARET GODFREDSON REVOVCABLE TRUST

4

FRED L. & MARGARET GODFREDSON REVOVCABLE TRUST

+22.00 Prop. (ENTL8006) Type "D" Ent. 18" Uncl. Pipe

6008

Obliterate Exist. 235th St. Roadbed

BANNER AVENUE

235TH STREET

00+00.00

5030+00

5033+20
℄65'

5035+00

5034+75
℄63'

5040+00

5041+00
℄62'±Ex.R/W

5041+00
℄131'±Ex.R/W

CLOSE

TEMPORARY EASEMENT TO SHAPE

5042+07
℄63'±℄

5043+13
℄68'±Ex.R/W

5043+40
℄70'±Prop.R/W

5043+80
℄73'

5045+00

5041+56
℄60'

5044+50
℄64'

4

FRED L. & MARGARET GODFREDSON REVOVCABLE TRUST

T- 87N R- 47W SEC. 8

7D

ORTON SLOUGH DRAINAGE DISTRICT

0 50
FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: FREDRICKSON / CUVA
ROW #: IMN-029-6(318)139--0E-97
Plan Date: 05/28/2024
Color Legend:

- Property Llnes
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER HE.3 | |
|---|---|---|---|---|---|---|

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5

MARK S. GODFREDSON

8D

FARMER'S DRAINAGE DITCH

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

5045+00

5045+75 ℄68'

5047+10 ℄63'

5047+64 ℄107'

+00.00 Prop. (ENTL5048) Type "D" Ent. 18" Uncl. Pipe

5048+36 ℄107'

T- 87N R- 47W SEC. 8

5050+00

235TH STREET

E1

5047+68 ℄85'

+00.00 Prop. (ENTR5048) Type "D" Ent 18" Uncl. Pipe

5048+69 ℄51'

5048+30 ℄64'

5048+30 ℄85'

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

4

FRED L. & MARGARET GODFREDSON REVOCABLE TRUST

5

MARK S. GODFREDSON

7D

ORTON SLOUGH DRAINAGE DITCH

00+0006

UAC

BARKER AVENUE

CLOSE

345+00

T- 87N R- 47W SEC. 9

Old HWY 75

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

5058+71±Ex.R/W ℄95'

5054+74 ℄80'

5055+00

+06.09 Prop. (ENTL5055) Type "D" Ent. 18" Uncl. Pipe

5055+38 ℄80'

5058+46 ℄65'

5057+71±R ℄65'

5056+60 ℄63'

340+00

CLOSE

CLOSE

5057+16±R ℄90'

5055+65 ℄73'

5057+30 ℄86'±Ex.R/W

5055+34±Ex.R/W ℄119'

5057+47 ℄115'

5057+81 ℄115'±Ex.R/W

+82.00 Prop. (ENTR5057) Type "D" Ent.

TEMPORARY EASEMENT TO CONSTRUCT ENTRANCE

4

FRED L. & MARGARET GODFREDSON REVOCABLE TRUST

6R

UPRR

8D

FARMER'S DRAINAGE DITCH

335+00

0 50 FEET

Right of Way Design Information

THIS SHEET INCLUDED FOR INFORMATION ONLY

ROW Team: FREDRICKSON / CUVA

ROW #: IMN-029-6(318)139--0E-97

Plan Date: 05/28/2024

Color Legend:

- Property LInes
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER HE.4 |
|---|---|---|---|---|---|

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4

FRED L. & MARGARET GODFREDSON REVOCABLE TRUST

7D

ORTON SLOUGH DRAINAGE DITCH

BARKER AVENUE

235th St

T- 87N R- 47W SEC. 8

5055+00
+06.09 Prop. (ENTL5055) Type "D" Ent. 18" Uncl. Pipe

5

MARK S. GODFREDSON

8D

6R

FARMER'S DRAINAGE DITCH

UPRR

TEMPORARY EASEMENT TO SHAPE

6R

335+00

335+14
℄50'

UPRR

337+72±Prop.R/W
℄50'

+82.00 Prop. (ENTR5057) Type "D" Ent.

CLOSE

CLOSE

340+00

339+93±Prop.R/W
℄60'

TEMPORARY EASEMENT TO SHAPE

345+00

345+86
℄60'

347+55
℄42'

OLD HWY 75

7D

ORTON SLOUGH DRAINAGE DITCH

5

MARK S. GODFREDSON

8D

FARMER'S DRAINAGE DITCH

T- 87N R- 47W SEC. 9

0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED
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ROW Team: FREDRICKSON / CUVA
ROW #: IMN-029-6(318)139--0E-97
Plan Date: 05/28/2024
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition
Permanent Acquisition County
Permanent Acquisition City

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER HE.5 | |
|---|---|---|---|---|---|---|

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T- 87N R- 47W
SEC. 8

5

MARK S. GODFREDSON

8006+53
℄42'

8004+42
℄65'

8003+78
℄57'±Ex.R/W

8003+22
℄51'±℄

8006+80
℄31'±Ex.R/W

8002+62
℄61'±Ex.R/W

CLOSE

E1 SIDE

E1

BANNER AVENUE

E1

E1

E1

108-23A
08-01-08

## TRAFFIC CONTROL PLAN

Interstate 29: Maintain traffic on NB and SB Interstate 29 at all times in accordance with J Sheets. Single lane closures will be permitted as necessary to remove rumble strips and set TBR.

Sideroads: Portions of 235th Street, Old US 75, Banner Avenue and Barker Avenue will have closures at varying times. Access to Barker Avenue will be provided at all times.

Refer to Tab. 108-26A for Staging Notes.

No lane closure restrictions for I-29 construction.

For additional information, refer to Part 6 of the Manual on Uniform Traffic Control Devices, Iowa DOT Standard Road Plan TC Series and the current Standard Specifications.

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 |
|---|---|
| | |
| | |

108-26A
08-01-08

## STAGING NOTES

Stage 1:

Traffic:
Interstate 29: Maintain traffic on Interstate 29 at all times in accordance with J Sheets. Single lane closures will be permitted as necessary to complete inside shoulder rumble strip patching and set TBR in accordance with Standard Road Plan TC-418 and the allowable closure time frames shown on Sheet J.2.

Sideroads: Maintain traffic along existing 235th Street from Old US 75 to Barker Avenue in accordance with J Sheets. Close 235th Street to all traffic between Barker Avenue and Banner Avenue. Partial road closure at intersection of Banner Avenue and Port Neal Road per Standard Road Plan TC-252. Full road closure at last driveway before the work area on Banner Avenue per Standard Road Plan TC-252.

Construction:
Interstate 29: Construct I-29 median shoulder rumble strip patching in order to shift traffic in Stage 2. Construct Ramps A, B, C, and D except for within 30 feet of I-29.

Sideroads: Construct 235th Street between Port Neal Road and Barker Avenue, including new 235th Street bridge substructure.

Stage 2:

Traffic:
Interstate 29: Shift northbound and southbound traffic to the median as shown in the J Sheets. Traffic will shift back to existing after the 235th Street bridge construction. During girder setting over I-29, utilize rolling road blocks between the hours of 2:00AM and 5:00AM with DMS warning messages set in advance of the anticipated queue.

Sideroads: Fully close Old US 75 to all traffic south of 230th Street and north of 240th Street. Open new 235th Street between Banner Avenue and Barker Avenue. Close 235th Street east of Barker Avenue.

Construction:
Interstate 29: Construct remaining acceleration and deceleration lanes for Ramps A, B, C, and D.

Sideroads: Construct new thru lanes on Old US 75 along with the new southbound right turn lane to 235th Street. Construct 235th Street between Old US 75 and Barker Avenue. Complete new 235th Street bridge at I-29 and approach pavement.

Final:

Traffic:
Interstate 29: Open new ramps to all traffic. Place traffic back on existing lanes.

Sideroads: Open all roads to all traffic.

Set up pavement marking operations utilizing Standard Road Plan TC-433.
Set up rumble strip operations in accordance with Standard Road Plan TC-432.

Construction: Complete final pavement markings and mill rumble strips.

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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

## CROSS SECTION VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

| SHADING | Design Color No. | |
|---|---|---|
| Green, Light | (225) | Existing Pavement Shading |
| Gray, Light | (48) | Previously Constructed Pavement Shading |
| Gray, Med | (80) | Previously Constructed Granular Surface Shading |
| Blue, Light | (230) | Proposed Pavement Shading |
| Lavender | (9) | Temporary Pavement Shading |
| Brown, Med | (237) | Future Proposed Pavement Shading |

## CROSS SECTION VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

| | | | |
|---|---|---|---|
| | Pavement Removal | | Proposed Granular Shoulder |
| | Proposed Granular Subbase | | Temporary Shoulder |
| | Proposed Special Backfill | | Existing Shoulder Strengthening |
| | Temporary Barrier Rail | | Permanent Barrier Rail |
| | Lane Open To Traffic | | Channelizing Device |

## PLAN VIEW COLOR LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

| LINEWORK | Design Color No. | |
|---|---|---|
| Green | (2) | Existing Topographic Features and Labels |
| Magenta | (5) | Pavement Marking Call Outs |
| Blue | (1) | Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation |
| Yellow | (4) | Pavement Markings, Yellow |
| Off White | (254) | Pavement Markings, White |
| Violet | (15) | Temporary barrier rail, Unpinned |
| Flush Orange | (228) | Temporary barrier rail, Pinned |

| SHADING | Design Color No. | |
|---|---|---|
| Green, Light | (225) | Existing Pavement Shading |
| Gray, Light | (48) | Previously Constructed Pavement Shading |
| Gray, Med | (80) | Proposed Granular Surface Shading |
| Gray, Med | (80) | Previously Constructed Granular Surface Shading |
| Blue, Light | (230) | Proposed Pavement Shading |
| Lavender | (9) | Temporary Pavement Shading |
| Brown, Light | (236) | Proposed Grading Limits Shading |
| Pink, Dark | (13) | Proposed MSE or CIP Wall Shading |
| Red | (3) | Proposed Bridge Shading and Sign Trusses |
| Black w/Gray, Light Fill | (0,48) | Previously Constructed Structure |

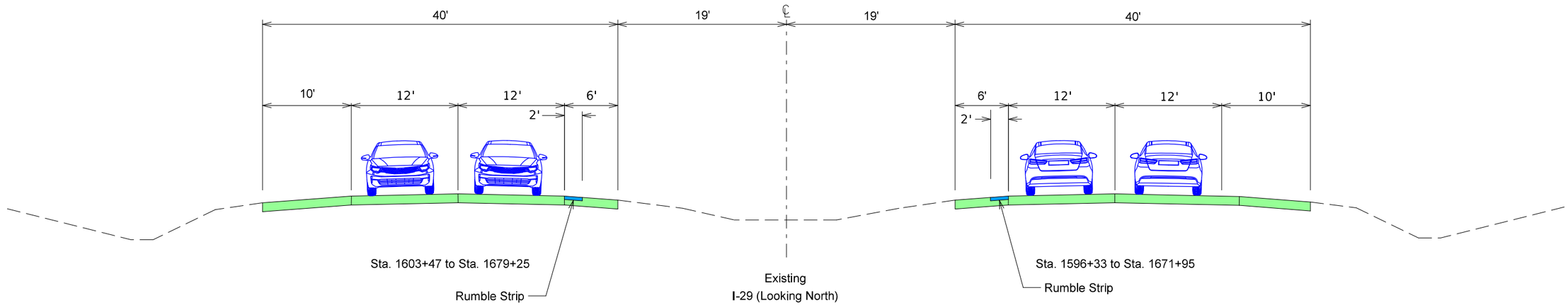
## PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

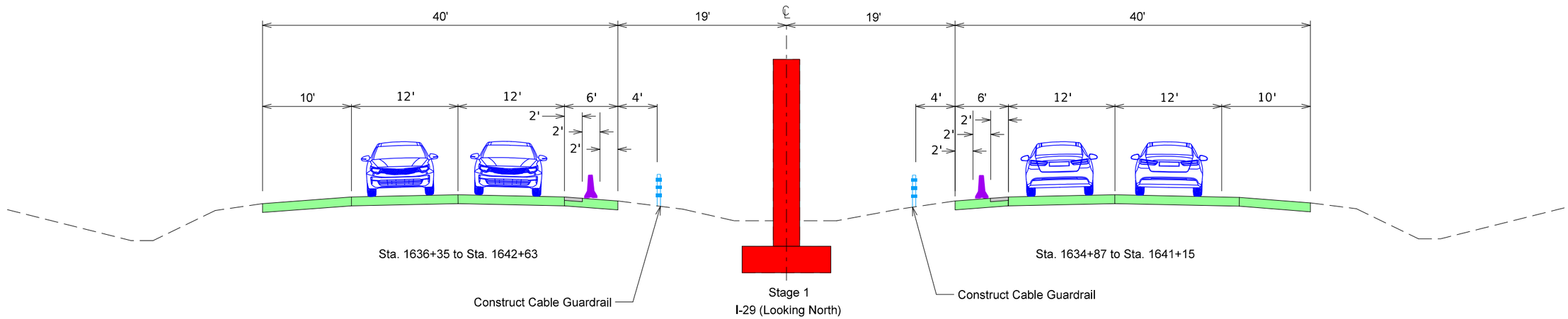
| | | | |
|---|---|---|---|
| | Channelizing Device | | Crash Cushion (Temp or Perm) |
| | Drum | | Traffic Signal |
| | Temporary Lane Separator | | Flagger |
| | Tubular Marker | | Temporary Floodlighting |
| | Channelizer Marker | | Traffic Sign |
| | Concrete Barrier Marker | | Type III Barricade |
| | Delineator | | Type A Warning Light |
| | Temporary Barrier Rail | | Direction of Traffic |
| | Pavement Removal | | Safety Closure |
| | Sand Barrel Layout | 1 | Lane Identification |
| | Sawcut | | |

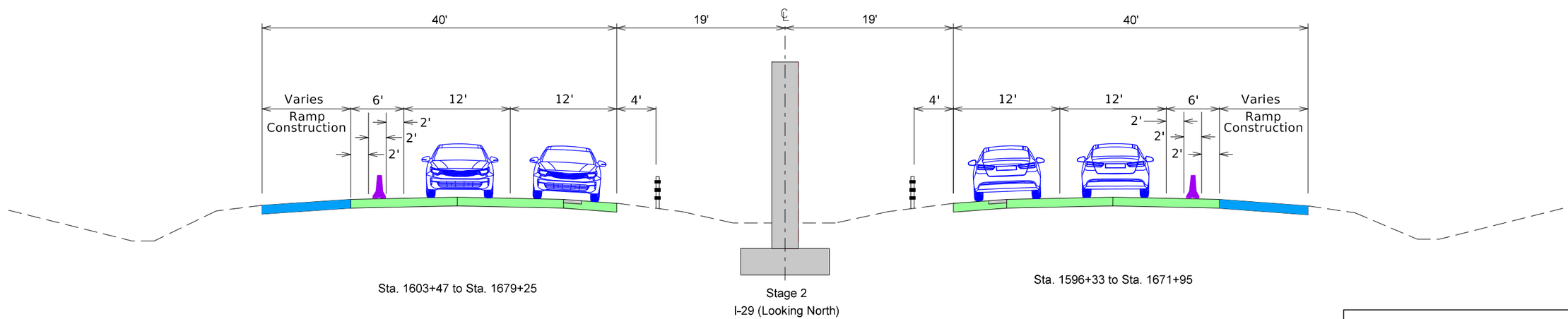
NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

# TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES J)




# STAGING TYPICALS

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.3 |
|---|---|---|---|---|---|

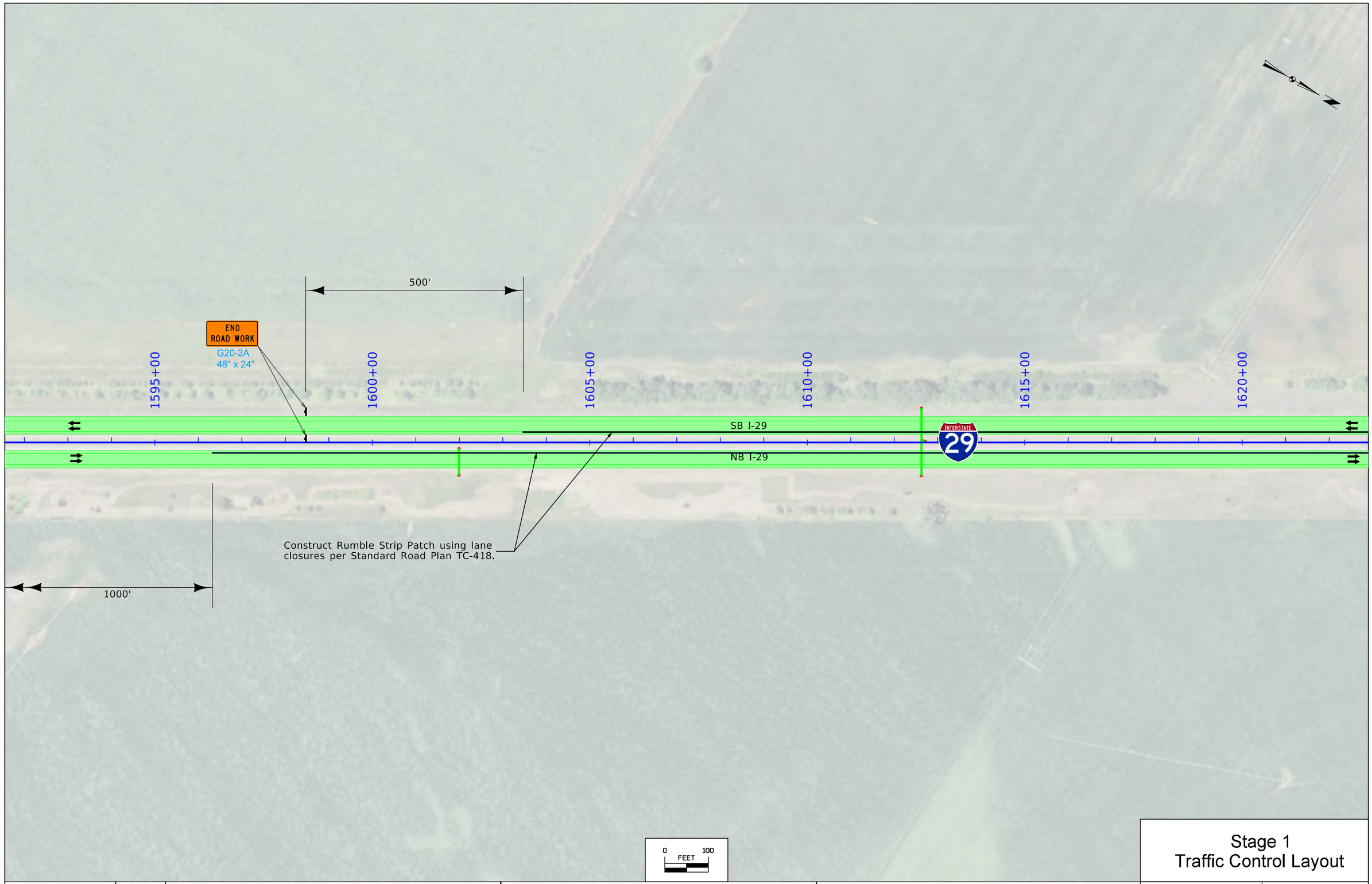
9:29:07 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_97029278Z04.dgn




# Stage 1
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.4 | |
|---|---|---|---|---|---|---|

2:59:49 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_9702978Z04.dgn




# Stage 1 Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.5 | |
|---|---|---|---|---|---|---|

2:59:55 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_9702927804.dgn

Construct Shoulder Edge using lane closures per Standard Road Plan TC-418.

Sta. 1636+35
Begin TBR

Ramp C

Ramp A

Port Neal Road

1625+00

1630+00

1635+00

Spacing = 100'

Sta. 1634+87
Install Crash Cushion
Begin TBR

1640+00

200'

1645+00

1650+00

SB I-29

NB I-29

INTERSTATE 29

Spacing = 100'

200'

Spacing = 100'

Sta. 1641+15
End TBR

Sta. 1642+63
Install Crash Cushion
End TBR

Spacing = 100'

Banner Avenue

Ramp B

Ramp D

235th Street

0 100
FEET

# Stage 1
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.6 | |
|---|---|---|---|---|---|---|

2:59:57 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_97029278Z04.dgn

Port Neal Road

1655+00

1660+00

1665+00

1670+00

1675+00

1680+00

1685+00

1000'

SB I-29

NB I-29

INTERSTATE 29

Construct Rumble Strip Patch using lane closures per Standard Road Plan TC-418.

END ROAD WORK

G20-2A

48" x 24"

500'

Banner Avenue

0 FEET 100

# Stage 1
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.7 | |
|---|---|---|---|---|---|---|

3:00:00 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_9702978Z04.dgn

Port Neal Road

1000'

1000'

LEFT SHOULDER CLOSED

W21-5a
48" x 48"

ROAD WORK AHEAD

W20-1
48" x 48"

1685+00

1690+00

1695+00

1700+00

1705+00

1710+00

1715+00

SB I-29

NB I-29

INTERSTATE 29

Port Neal Road

0 FEET 100

Stage 1
Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.8 | |
|---|---|---|---|---|---|---|

3:00:02 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_97029278Z04.dgn

ROAD WORK AHEAD
W20-1
48" x 48"

END ROAD WORK
G20-2A
48" x 24"

700'

Port Neal Road

6020+00

6015+00

During intersection construction, use Standard Road Plan TC-213.

Spacing = 80'

200'

150'

350'

SHOULDER DROP OFF
W8-9A
48" x 48"

END ROAD WORK
G20-2A
48" x 24"

ROAD WORK AHEAD
W20-1
48" x 48"

5005+00

5010+00

5015+00

5020+00

5025+00

Ramp A

Ramp C

Ramp D

Ramp B

235th Street

Install Banner Avenue full closure per TC-252. "Road Closed To Thru Traffic" Type III barricade at intersection of Banner Avenue and Port Neal Rd. Full width Type III barricades at last driveway before the work area.

Obliterate Exist. Field Entrance

Banner Avenue

INTERSTATE 29

SB I-29

NB I-29

0 100
FEET

# Stage 1
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.9 |
|---|---|---|---|---|---|

3:00:07 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_9702978Z04.dgn

Restricted Access:
1. The Contractor will note the "Restricted Access - No Access" located on Sheet E.4.
The Contractor shall furnish and install orange safety fence according to Article 4188.03 of the Standard Specifications.
2. The Contractor shall contact Janee Becker (515-233-7820) with the Location and Environment Bureau with questions regarding the Restricted Access location.




Stage 1
Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.10 |
|---|---|---|---|---|---|

3:00:12 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_97029278Z04.dgn




# Stage 1
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.11 |
|---|---|---|---|---|---|

3:00:15 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_9702978Z04.dgn

SB I-29

NB I-29

ROAD WORK AHEAD

W20-1
48" x 48"

800'

SPEED LIMIT 60

W3-5
48" x 48"

800'

SPEED LIMIT 60

R2-1
48" x 60"

1000'

INTERSTATE 29

POB 1591+07.27

W1-4L
48" x 48"

ALL LANES

W24-1cP
30" x 24"

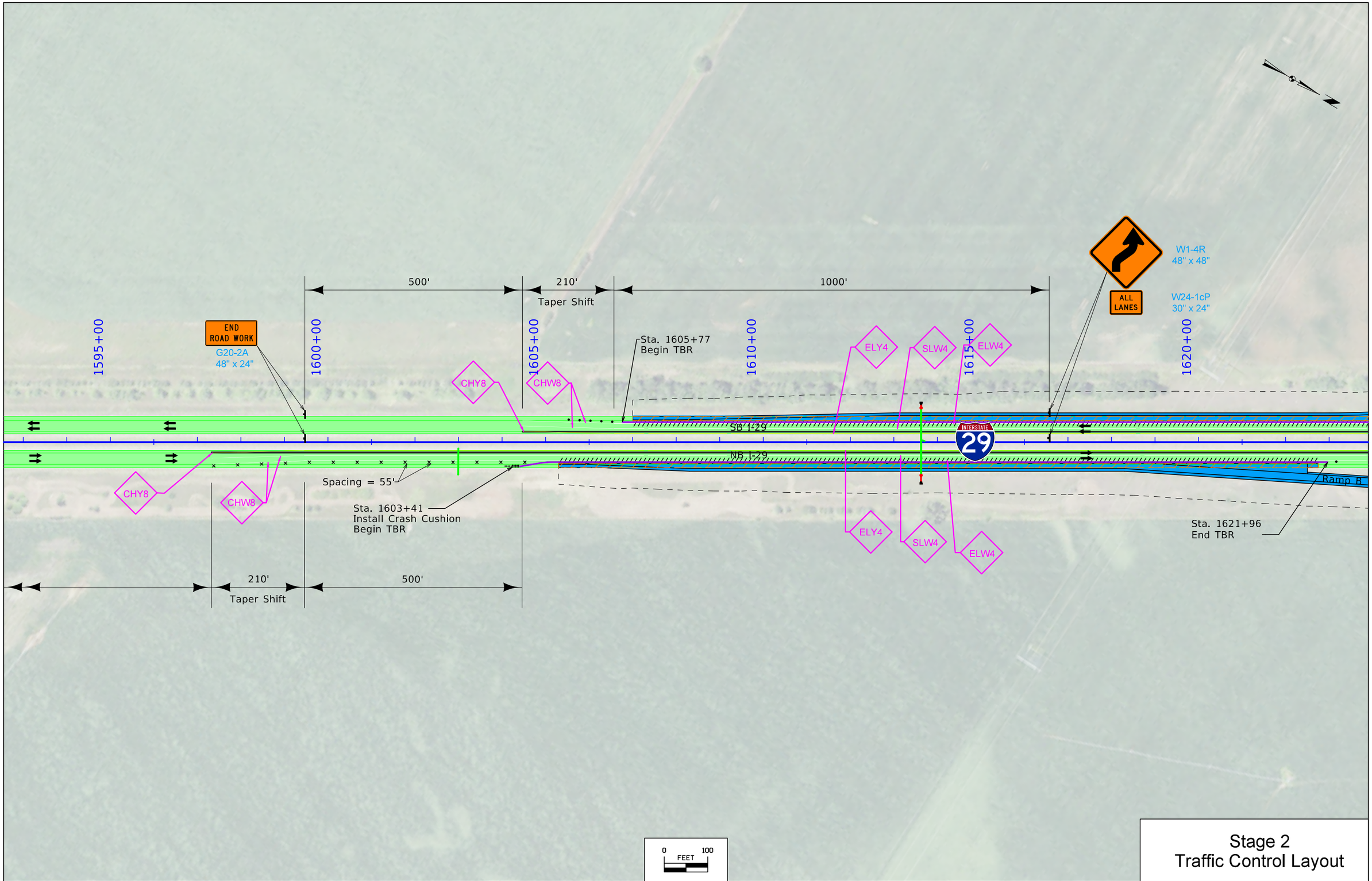
1000'

0 FEET 100

Stage 2
Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.12 | |
|---|---|---|---|---|---|---|

3:00:18 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_9702978Z04.dgn




# Stage 2
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.13 |
|---|---|---|---|---|---|

3:00:21 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_97029278Z04.dgn

Port Neal Road

Ramp C

Ramp A

Ramp B

Ramp D

235th Street

Sta. 1626+12
Install Crash Cushion
End TBR

Sta. 1653+62
Begin TBR

Sta. 1649+48
Install Crash Cushion
Begin TBR

1625+00

1630+00

1635+00

1640+00

1645+00

1650+00

ELY4

SLW4

ELW4

ELY4

SLW4

ELW4

Spacing = 100'

Spacing = 100'

INTERSTATE 29

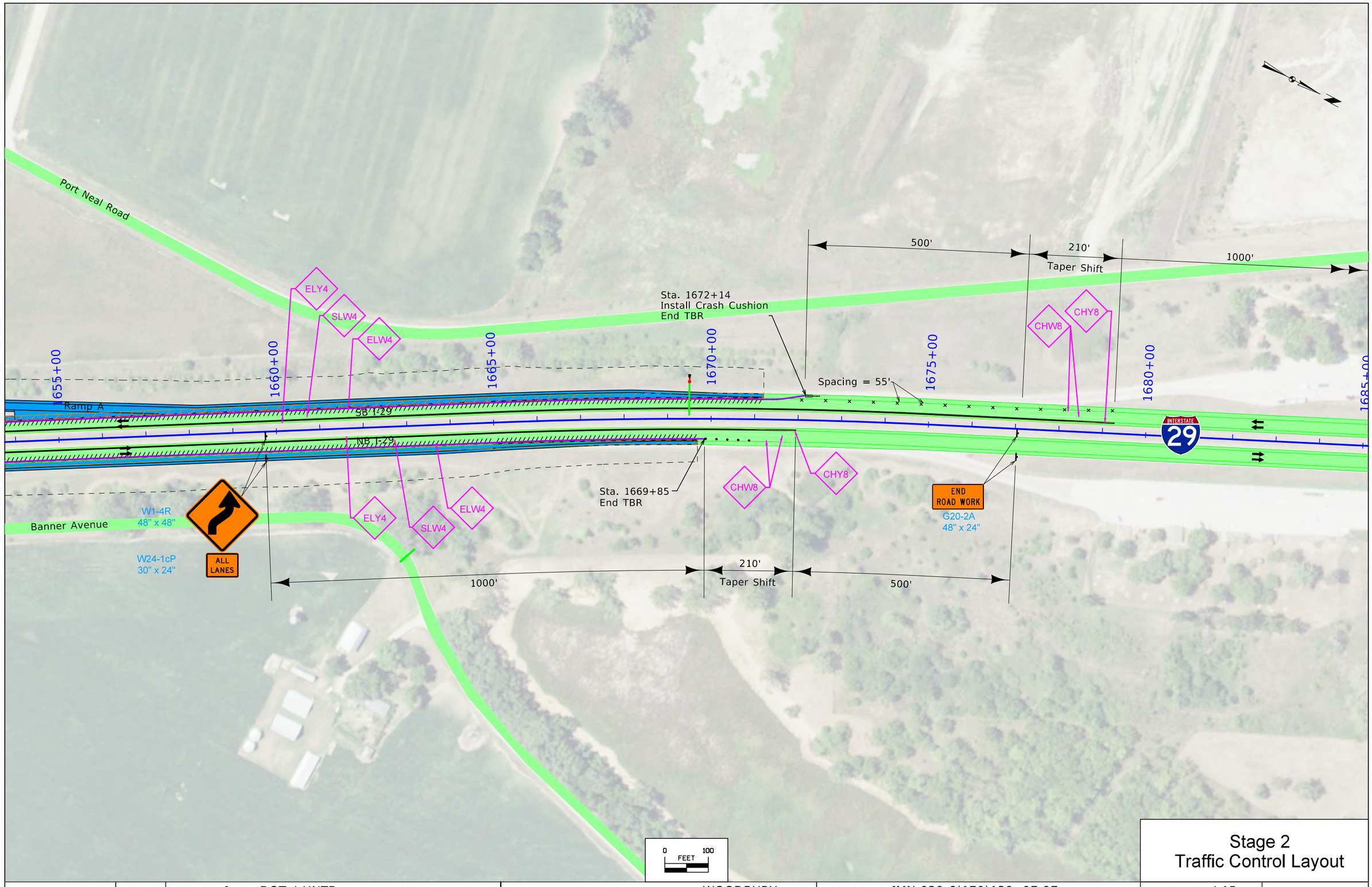
Banner Avenue

0 FEET 100

# Stage 2
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.14 |
|---|---|---|---|---|---|

3:00:24 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_9702978Z04.dgn




# Stage 2
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.15 |
|---|---|---|---|---|---|

3:00:28 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_9702978Z04.dgn

Port Neal Road

1000' | 1000' | 800' | 800'

1685+00 | 1690+00 | 1695+00 | 1700+00 | 1705+00 | 1710+00 | 1715+00

W1-4L
48" x 48"

W24-1cP
30" x 24"

ALL LANES

SPEED LIMIT 60

R2-1
48" x 60"

SPEED LIMIT 60

W3-5
48" x 48"

ROAD WORK AHEAD

W20-1
48" x 48"

SB I-29

NB I-29

INTERSTATE 29

Port Neal Road

0 FEET 100

# Stage 2
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.16 |
|---|---|---|---|---|---|

3:00:30 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_J_97029278Z04.dgn

Port Neal Road

INTERSTATE 29

Banner Avenue

Ramp A

Ramp D

Ramp C

Ramp B

NB I-29

SB I-29

235th Street

5005+00

5010+00

5015+00

5020+00

5025+00

ROAD CLOSED

R11-2
48" x 30"

0 100
FEET

# Stage 2
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.17 | |
|---|---|---|---|---|---|---|

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Banner Avenue

235th Street

Old US 75

UPRR

Barker Avenue

5030+00

5035+00

5040+00

5045+00

5050+00

5055+00

00+0006

500'

500'

R11-2
48" x 30"
ROAD CLOSED

ROAD CLOSED 500 FT
W20-3
48" x 48"

ROAD CLOSED AHEAD
W20-3
48" x 48"

ROAD CLOSED 500 FT
W20-3
48" x 48"

R11-2
48" x 30"
ROAD CLOSED

ROAD WORK AHEAD
W20-1
48" x 48"

END ROAD WORK
G20-2A
48" x 24"

0 100
FEET

# Stage 2
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.18 |
|---|---|---|---|---|---|

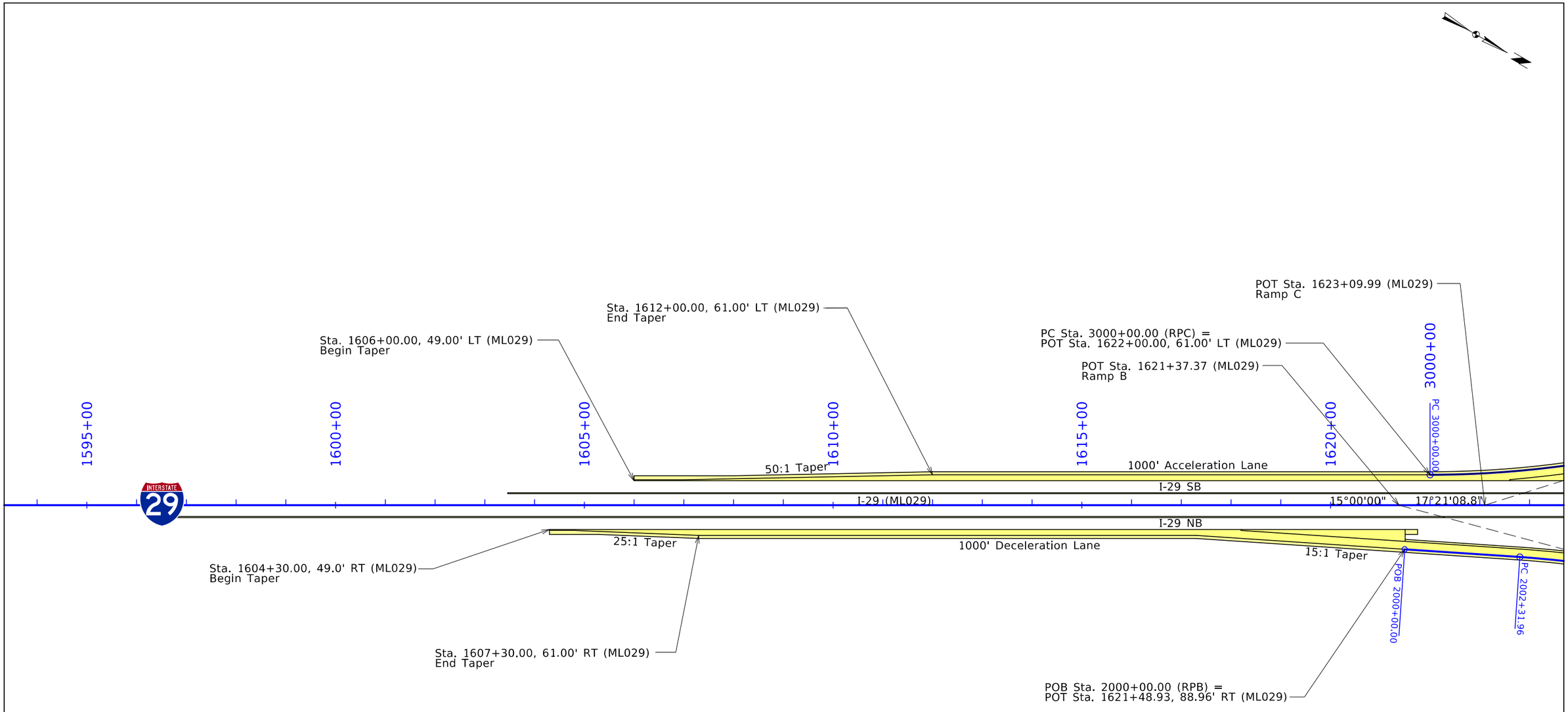
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# Stage 2
# Traffic Control Layout

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER J.19 |
|---|---|---|---|---|---|

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# Geometric Plan

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.1 |
|---|---|---|---|---|---|

9:31:02 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_K_97029278Z04.dgn

POE Sta. 3018+03.91 (RPC) =
POB Sta. 1000+00.00 (RPA) =
POT Sta. 5010+10.83 (SR235) =
POT Sta. 1639+69.02, 350.89' LT (ML029)

POT Sta. 1650+78.51 (ML029)
Ramp D

RPC Curve 1 Data
Δ = 17°21'08.83" (LT)
T = 305.19
L = 605.71
R = 2000.00
E = 23.15
e = 5.40%
L = 168
x = 62

RPA Curve 1 Data
Δ = 11°10'51.92" (LT)
T = 195.77
L = 390.29
R = 2000.00
E = 9.56
e = 5.40%
L = 168
x = 62

RPC Curve 2 Data
Δ = 17°21'08.83" (RT)
T = 305.19
L = 605.71
R = 2000.00
E = 23.15
e = 3.40%
L = 82
x = 48

Ramp C (RPC)
Ramp A (RPA)
I-29 (ML029)
I-29 SB
I-29 NB
Ramp B (RPB)
Ramp D (RPD)
235th St

POT Sta. 1638+75.00 (ML029)
POT Sta. 5013+74.10 (SR235)

RPB Curve 1 Data
Δ = 11°10'51.92" (RT)
T = 195.77
L = 390.29
R = 2000.00
E = 9.56
e = 5.40%
L = 168
x = 62

POB Sta. 2016+51.10 (RPD) =
POE Sta. 4000+00.00 (RPB) =
POT Sta. 5018+23.83 (SR235) =
POT Sta. 1637+58.60, 434.41' RT (ML029)

RPD Curve 1 Data
Δ = 24°04'58.23" (LT)
T = 149.32
L = 294.23
R = 700.00
E = 15.75
e = 5.60%
L = 135
x = 48

RPD Curve 2 Data
Δ = 24°04'58.23" (RT)
T = 426.62
L = 840.65
R = 2000.00
E = 45.00
e = 5.40%
L = 168
x = 62

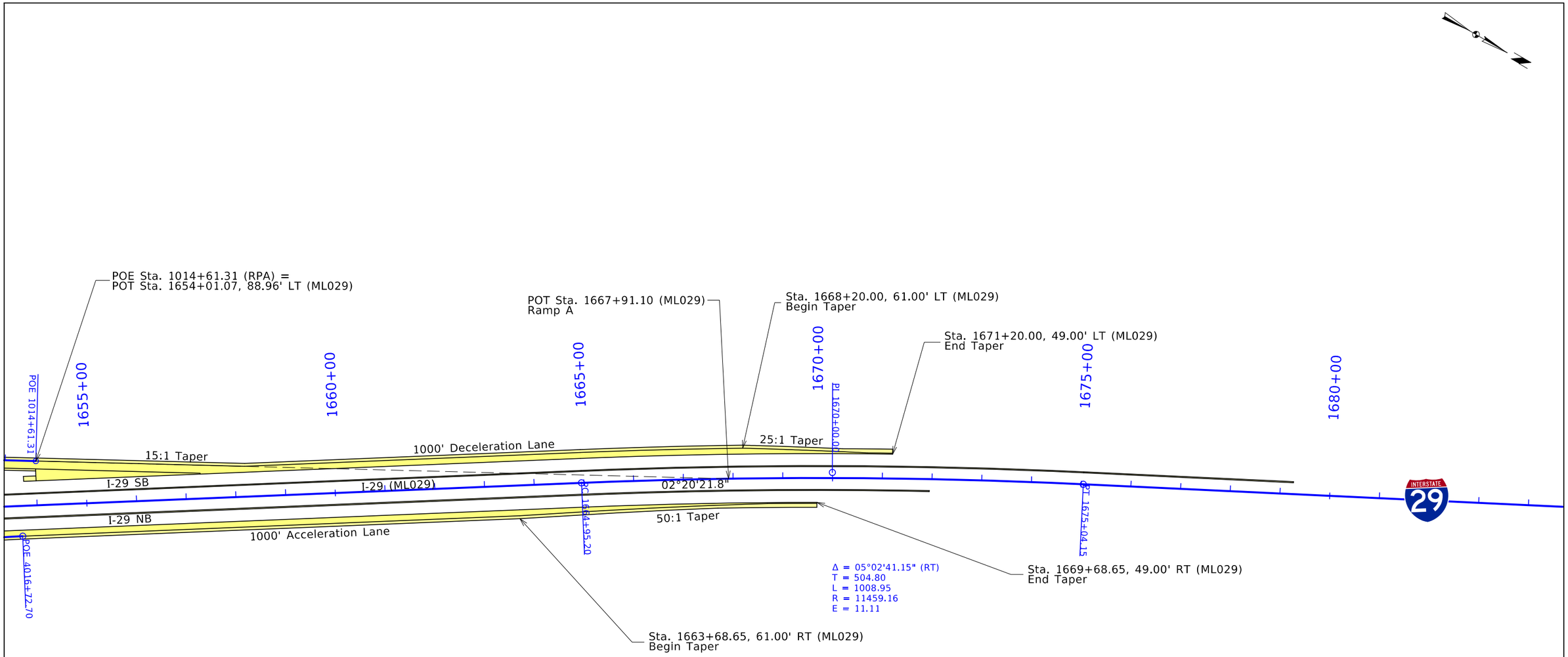
PT Sta. 4016+72.70 (RPD) =
POT Sta. 1653+68.65, 61.00' RT (ML029)

0 100 FEET

# Geometric Plan

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.2 |
|---|---|---|---|---|---|

9:31:03 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_K_97029278Z04.dgn




0 FEET 100

# Geometric Plan

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.3 |
|---|---|---|---|---|---|

9:31:04 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_K_97029278Z04.dgn

Construction Limits

Sta. 1000+20.00
Begin Construction

235th St

1000+00

PCB 1000+00.00

1005+00

Construction Limits

Sta. 1007+97.67 Stage 1
Install 80.0' 24.0" 3750D RCP
Ramp A

RPA Curve 1 Data
Δ = 11°10'51.92" (LT)
T = 195.77
L = 390.29
R = 2000.00
E = 9.56
e = 5.40%
L = 168
x = 62

PC 1006+60.17

1010+00

PT 1010+50.47

Sta. 1014+61.31
End Construction

POE 1014+61.31

Ramp A

I-29 SB

I-29 NB

PI 1008+55.89

Exist. ROW

0 FEET 50

Ramp D

Ramp A

1115
1110
1105
1100
1095
1090
1085
1080

Sta. 1000+20.00
Elev. 1109.37
Begin Construction

VPI = +50.00
ELV = 1096.77
L = 200.00
K = 161

-2.00%

-0.76%

Sta. 1014+61.31
Elev. 1091.71
End Construction

VPI = +50.00
ELV = 1091.45
L = 200.00
K = 201

-0.76%

+0.23%

RT +10
1090.00

-0.33% RT Ditch Grade

-0.20% LT Ditch Grade

LT +00
1088.90

RT +98
1087.75

+0.58% RT Ditch Grade

-0.23% LT Ditch Grade

RT +60
1091.60

LT +98
1087.50

LT +61
1086.00

Lt. No Ditch Ditch Grade

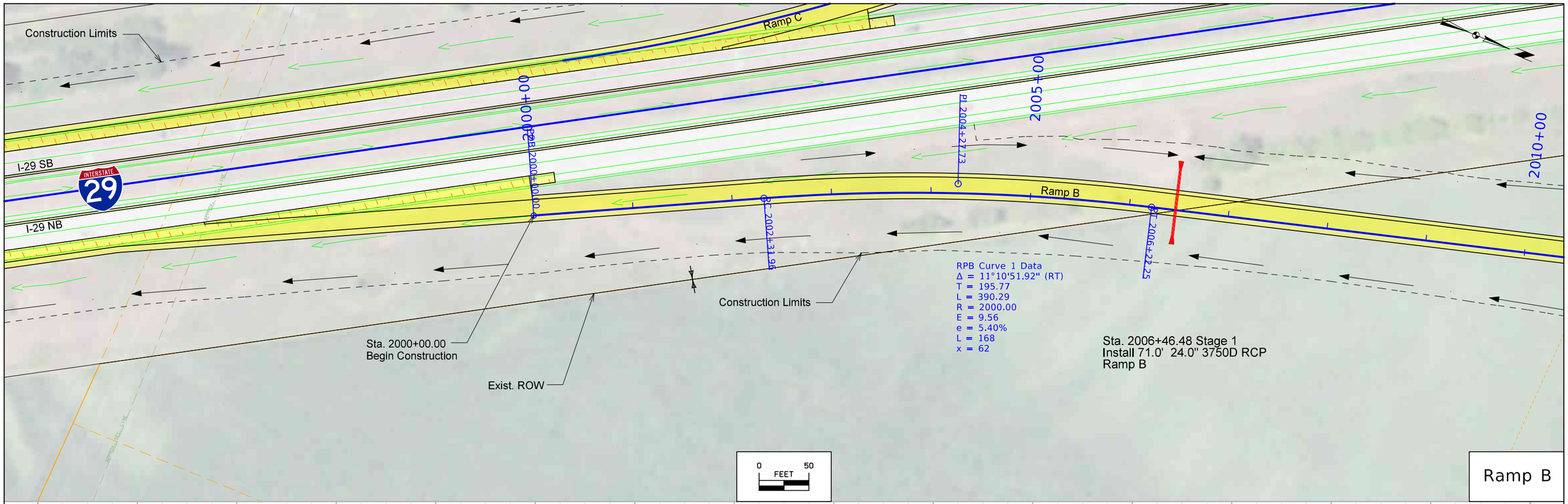
Rt. No Ditch Ditch Grade

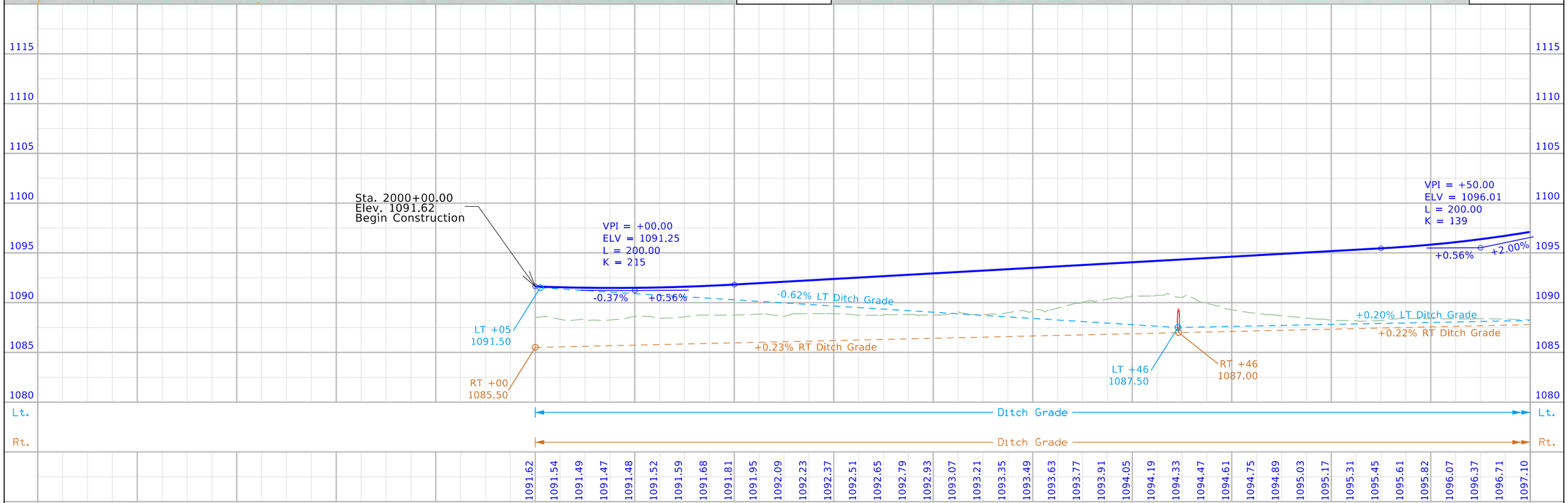
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1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00 1013+00 1014+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.4 |
|---|---|---|---|---|---|

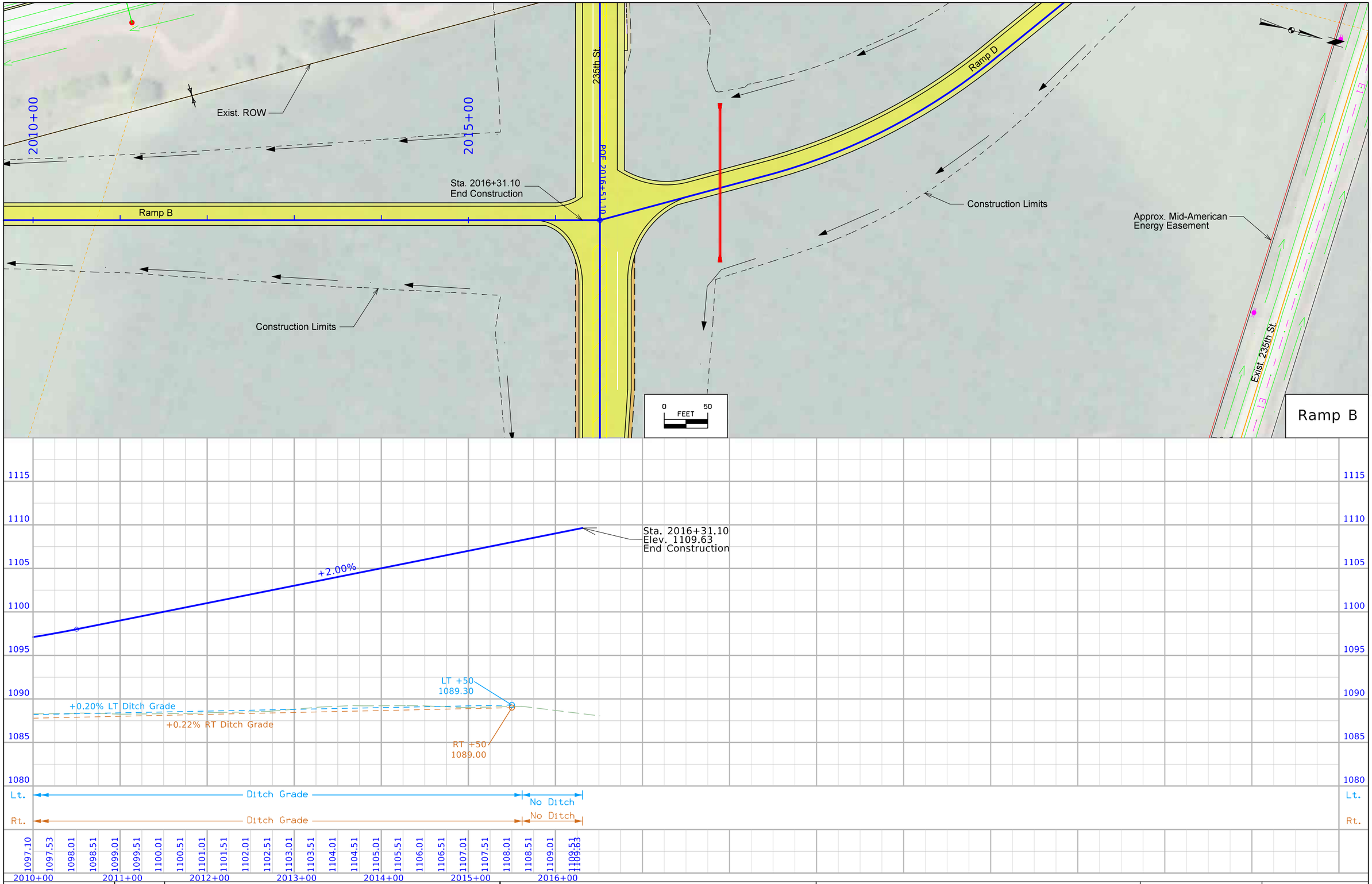
9:31:06 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_K_97029278Z04.dgn




| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.5 |
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9:31:08 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_K_97029278Z04.dgn




| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.6 |
|---|---|---|---|---|---|

9:31:10 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_K_97029278Z04.dgn

Sta. 1612+62.40 Stage 1
Extend with 30" x 7' RCP

Construction Limits

Exist. ROW

RPC Curve 1 Data
Δ = 17°21'08.83" (LT)
T = 305.19
L = 605.71
R = 2000.00
E = 23.15
e = 5.40%
L = 168
x = 62

3005+00

Sta. 3003+08.92
Begin Construction

3000+00

PC 3000+00.00

I-29 SB

INTERSTATE 29

I-29 NB

Ramp C

PT 3003+05.18

Sta. 1612+62.40 Stage 1
Extend with 30" x 14' RCP

Exist. ROW

Construction Limits

0 FEET 50

Ramp B

Ramp C

Sta. 3003+08.92
Elev. 1091.30
Begin Construction

VPI = +75.00
ELV = 1090.16
L = 300.00
K = 129

-1.41% RT Ditch Grade

-0.69%

+1.64%

RT +10
1091.80

+0.20% LT Ditch Grade

LT +09
1086.65

Ditch Grade Lt.

Ditch Grade Rt.

1091.30 1091.19 1091.04 1090.94 1090.89 1090.89 1090.94 1091.03 1091.18

3000+00 3001+00 3002+00 3003+00 3004+00 3005+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.7 |
|---|---|---|---|---|---|

12:37:02 PM 12/19/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Sheet_Files\SHT_K_97029278Z04.dgn

Sta. 3006+13.73 Stage 1
Install 58.0' 24.0" 3750D RCP
Ramp C

Construction Limits

PT 3006+57.73

PC 3009+67.32

PI 3012+22.51

PT 3015+22.03

Sta. 3017+83.21
End Construction

BOE 3018+03.21

235th St.

Ramp A

Ramp C

RPC Curve 2 Data
Δ = 17°21'08.83" (RT)
T = 305.19
L = 605.71
R = 2000.00
E = 23.15
e = 3.40%
L = 82
x = 48

Exist. ROW

I-29 SB

I-29 NB

INTERSTATE 29

0 FEET 50

Ramp C

3005+00 3010+00 3015+00 1630+00 1635+00 1640+00

VPI = +00.00
ELV = 1102.05
L = 200.00
K = 555

+1.64% +1.28%

Sta. 3017+83.21
Elev. 1109.52
End Construction

1.41% RT Ditch Grade

+0.20% LT Ditch Grade

LT +14
1087.25

RT +14
1087.50

+0.20% RT Ditch Grade

+0.20% LT Ditch Grade

RT +25
1089.70

LT +25
1089.50

Lt. Ditch Grade No Ditch

Rt. Ditch Grade No Ditch

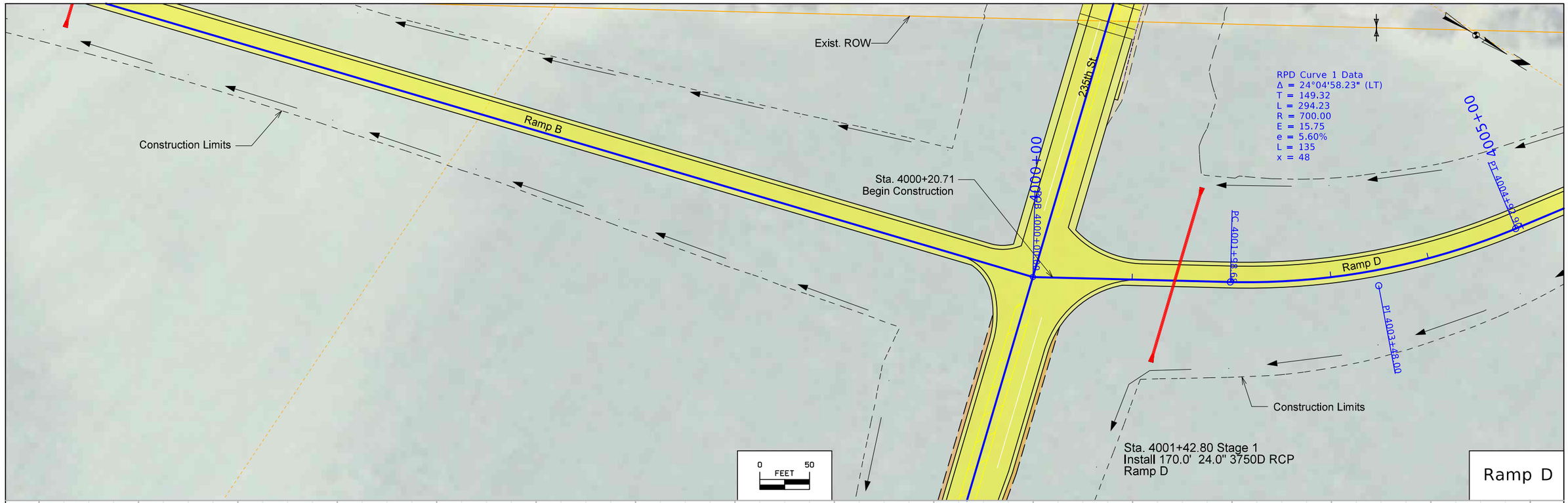
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1091.37 1091.61 1091.90 1092.24 1092.62 1093.03 1093.44 1093.85 1094.26 1094.67 1095.08 1095.49 1095.90 1096.31 1096.72 1097.13 1097.54 1097.95 1098.36 1098.77 1099.18 1099.59 1100.00 1100.41 1100.82 1101.21 1101.59 1101.96 1102.32 1102.67 1103.01 1103.33 1103.65 1103.97 1104.29 1104.61 1104.93 1105.25 1105.57 1105.89 1106.21 1106.53 1106.85 1107.17 1107.49 1107.81 1108.13 1108.45 1108.77 1109.09 1109.41 1109.52

3005+00 3006+00 3007+00 3008+00 3009+00 3010+00 3011+00 3012+00 3013+00 3014+00 3015+00 3016+00 3017+00 3018+00 3019+00 3020+00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.8 |
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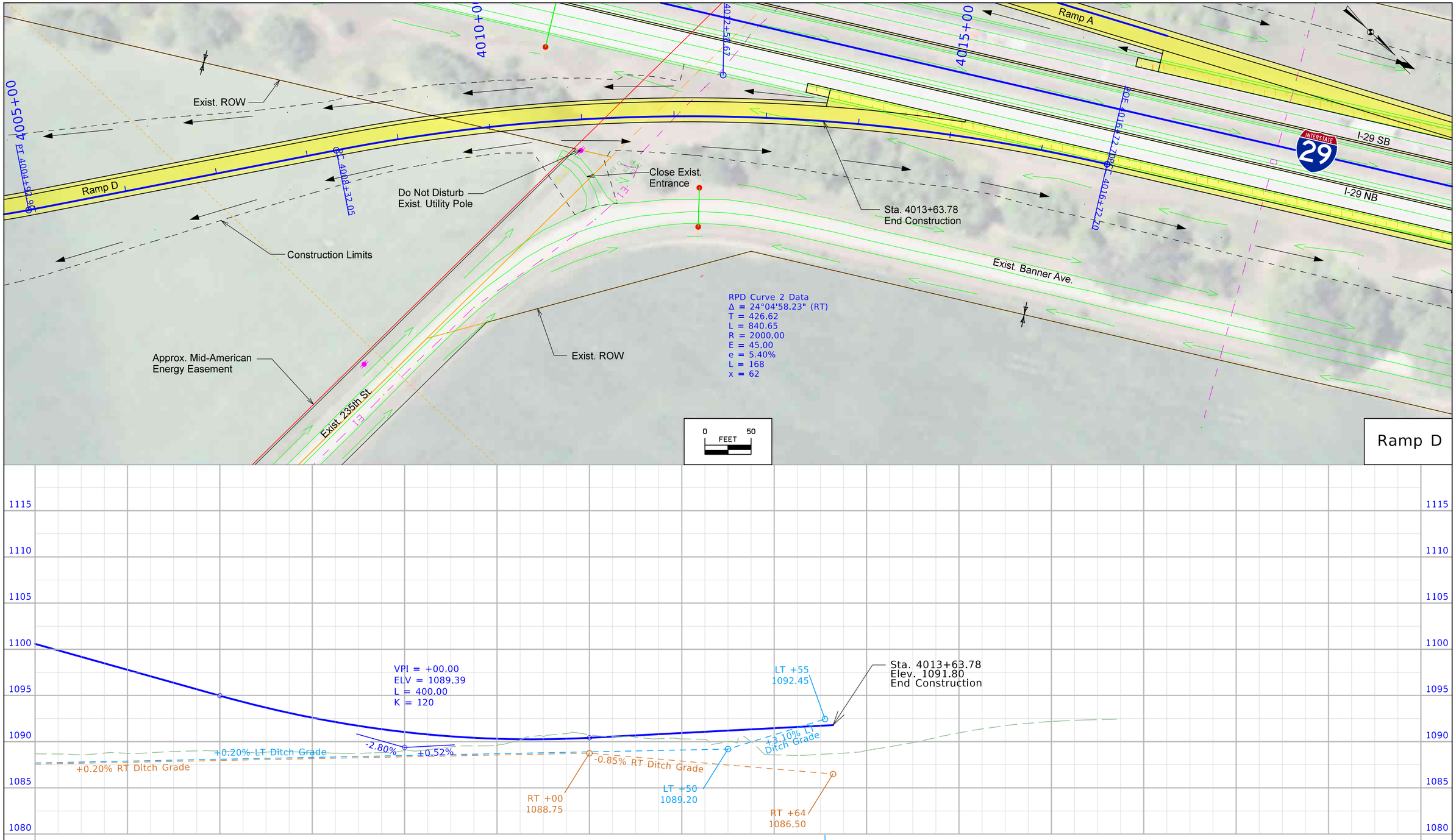






| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.9 |
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| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER K.10 |
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## 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
- Cistern
- L.P. Gas Tank (No Footing)
- 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

- FO2 - LONG LINES LTD. (Telephone)
TOM CONNORS
712-333-1352
tom.connors@longlines.biz

- FO - MIDWEST FIBER NETWORKS LCC
Contact Name
Contact Email

- G - NORTHERN NATURAL GAS COMPANY
(Gas Transmission)
JEFF LARSON
402-398-7618
Jeff.Larson@nngco.com

- SAN - SIOUX CITY (Sanitary Sewer, Water)
JON O'BRIEN
712-279-6135
jobrien@sioux-city.org

- E1 - WOODBURY COUNTY REC
(Electric Distribution)
Nate Bauer
712-873-3125
nbauer@woodburyrec.com

AT&T (Fiber Transmission)
LENNY VOHS
816-275-4014
lv2121@att.com

BLACK HILLS ENERGY (Gas)
BRAD FLEMING
402-221-2714
brad.fleming@blackhillscorp.com

FIBERCOMM (Fiber Distribution)
RICK WELCH
712-224-2054
rwelch@fibercomm.net

LUMEN CENTURYLINK (Fiber Distribution)
SEAN HOSTETTER
515-233-6404
sean.hostetter@lumen.com

MIDAMERICAN ENERGY COMPANY
(Electric Distribution)
CASEY MEINEN
712-233-4831
Casey.meinen@midamerican.com

MIDAMERICAN ENERGY COMPANY
(Electric Distribution)
WILLIAM SCHIERBROCK
563-333-8155
William.Schierbrock@midamerican.com

MIDAMERICAN ENERGY COMPANY (Gas)
TYLER AHLQUIST
712-277-7832
tjalquist@midamerican.com

MIDAMERICAN ENERGY COMPANY (Fiber)
BRIAN RECKER
515-242-4377
Brian.Recker@midamerican.com

- FO3 - SPRINT-TMOBILE (Fiber Transmission)
MIKE CHEBUL
402-522-2607
michael.j.chebul@t-mobile.com

## 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

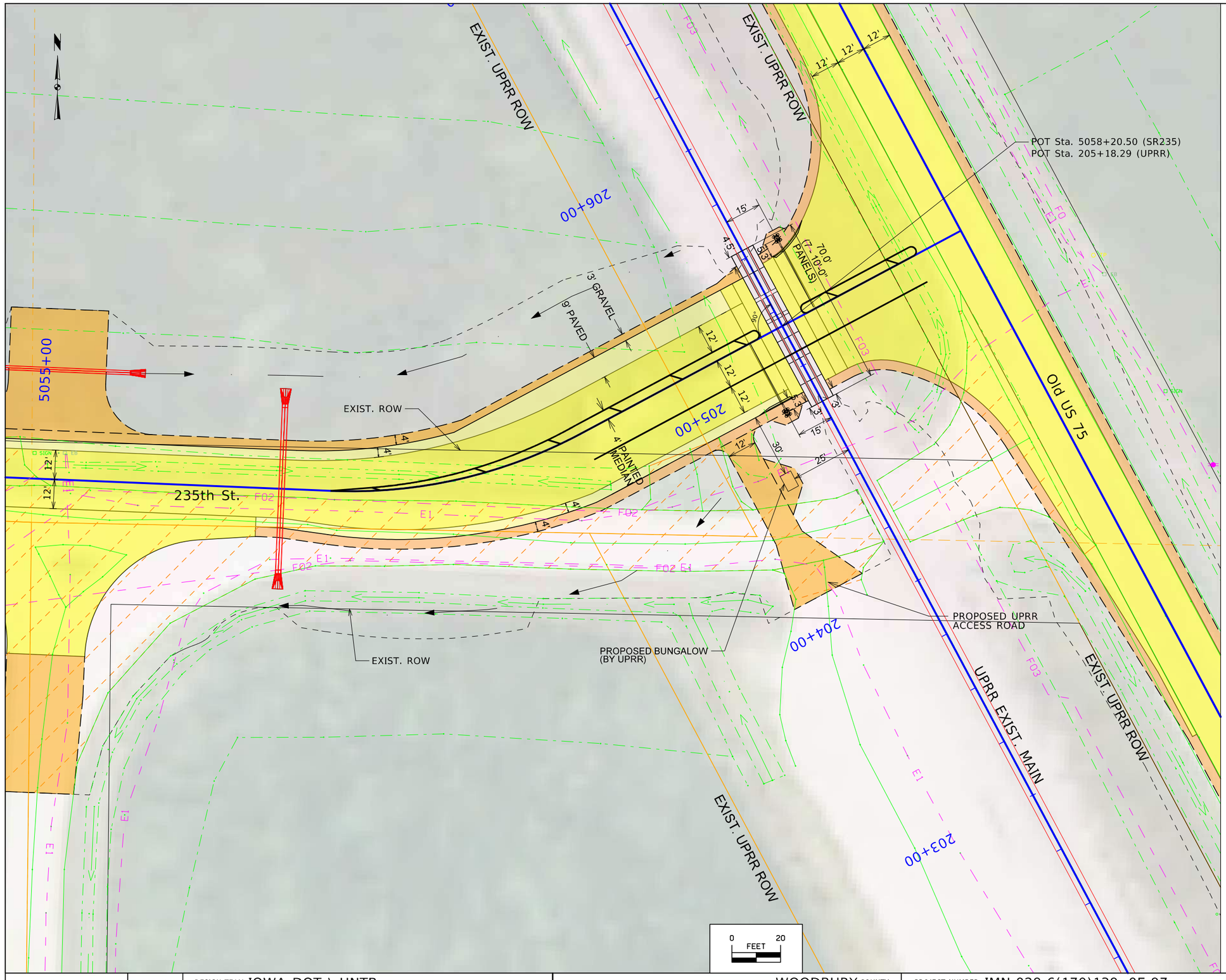
- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- C/A Access Control
- Property Line

# PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES U)

| FILE NO. | ENGLISH | DESIGN TEAM IOWA DOT \ HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER U.1 |
|---|---|---|---|---|---|

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CONSTRUCTION NOTES

1. ALL SIGNING, PAVEMENT MARKINGS, AND WARNING DEVICES SHALL BE CONSTRUCTED / INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND STATE HIGHWAY STANDARDS.

2. FULL ROAD CLOSURE WITH DETOUR IS PLANNED TO COMPLETE ROADWAY WORK.

UPRR

1. EXISTING AT-GRADE CROSSING TO REMAIN IN SERVICE DURING CONSTRUCTION.

2. UPRR TO PERFORM TRACK WORK AND INSTALL NEW CONCRETE PANELS, WARNING DEVICES AND BUNGALOW.

3. AFTER PROPOSED ROADWAY CONSTRUCTION AND CUT OVER, UPRR SHALL REMOVE EXISTING CROSSING PANELS, ROADWAY SURFACE AND PASSIVE WARNING DEVICES TO BE DISPOSED BY IOWA DOT CONTRACTOR.

CONTRACTOR

1. CONSTRUCT PROPOSED ROADWAY ADJACENT TO PROPOSED UPRR WORK LIMITS.

2. CONSTRUCT PROPOSED ACCESS ROAD AND BUNGALOW PAD.

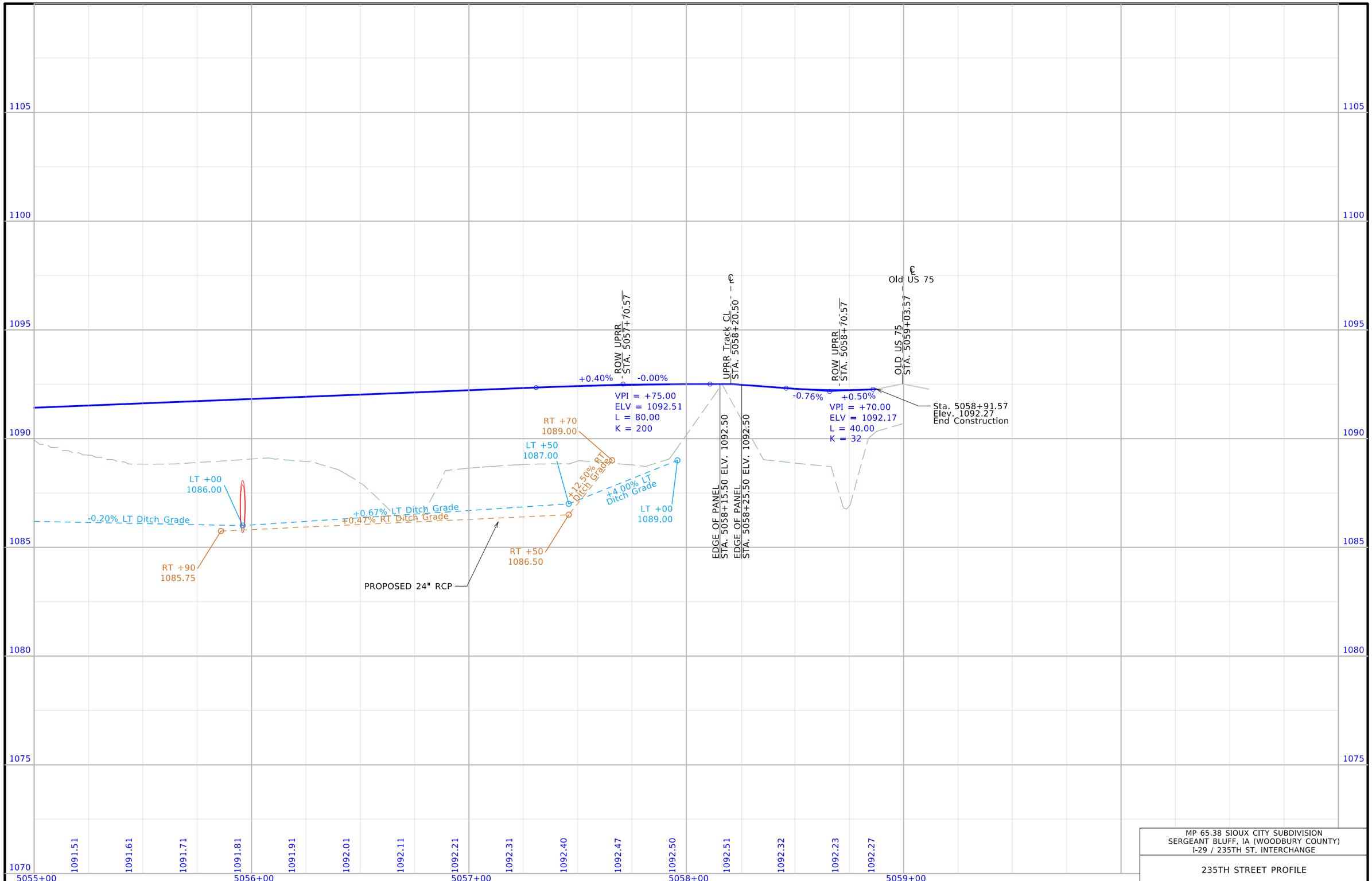
3. AFTER PROPOSED ROADWAY CONSTRUCTION AND CUT OVER, REMOVE EXISTING ROADWAY APPROACHES AND PERFORM NECESSARY GRADING ALONG UPRR ROW.

MP 65.38 SIOUX CITY SUBDIVISION
SERGEANT BLUFF, IA (WOODBURY COUNTY)
I-29 / 235TH ST. INTERCHANGE

PROPOSED UPRR CROSSING DETAIL
235TH STREET PLAN

| FILE NO. | ENGLISH | DESIGN TEAM IOWA DOT \ HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER U.2 | |
|---|---|---|---|---|---|---|

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MP 65.38 SIOUX CITY SUBDIVISION
SERGEANT BLUFF, IA (WOODBURY COUNTY)
I-29 / 235TH ST. INTERCHANGE

235TH STREET PROFILE

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER U.3 |
|---|---|---|---|---|---|

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PROPOSED UPRR ACCESS ROAD

PROPOSED BUNGALOW

202+00 203+00 204+00 205+00 235TH STREET 206+00 207+00

EXIST. UPRR ROW

UPRR EXIST. MAIN

EXIST. UPRR ROW

OLD US 75

0 20 FEET

1095 1090 1085

EXIST. 235TH ST.

PROP 235TH ST.

EXIST. T/R MAIN TRACK

1091.92 1091.98 1092.03 1092.09 1092.14 1092.20 1092.25 1092.31 1092.36 1092.42 1092.47 1092.51 1092.51 1092.51 1092.50 1092.50 1092.50 1092.49 1092.49 1092.49 1092.48 1092.48 1092.48 1092.47

202+00 203+00 204+00 205+00 206+00 207+00

MP 65.38 SIOUX CITY SUBDIVISION
SERGEANT BLUFF, IA (WOODBURY COUNTY)
I-29 / 235TH ST. INTERCHANGE

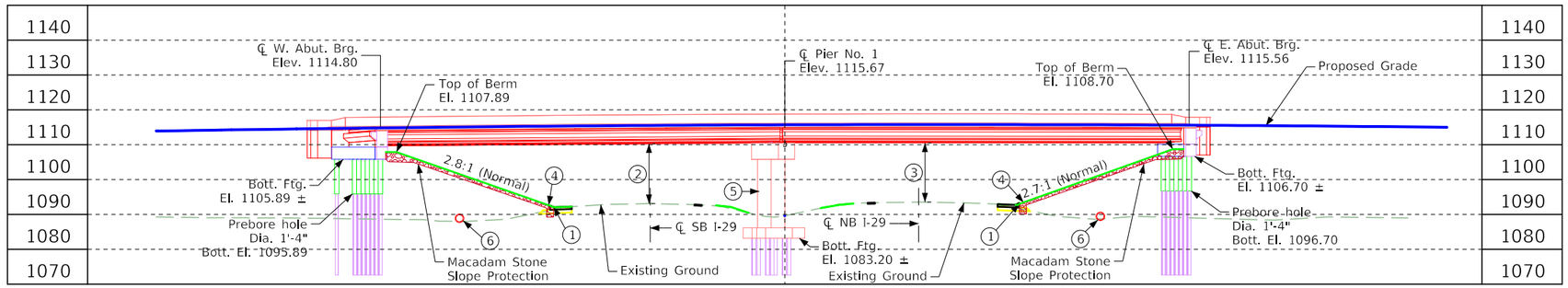
UPRR TRACK PLAN AND PROFILE

| FILE NO. | ENGLISH | DESIGN TEAM IOWA DOT \ HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER U.4 |
|---|---|---|---|---|---|

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Control Point 97K25023: N 8542503.05, E 14089982.04; CP FENO Monument set in N edge of field entrance on east side K25 approx. 450 ft. S. Intersection K25 and 235th St. Elev. 1091.12

1. EW-204 Grading
2. Minimum vertical clearance = 17.20'
3. Minimum vertical clearance = 17.07'
4. Grading Surface
5. Frame Pier
6. Proposed 24 in. RCP Culvert
7. Macadam Stone Slope Protection (Embedded)




Longitudinal Section Along ℄ 235th Street

VPI Sta. = 5014+00.00
VPI Elev. = 1120.20
VC = 700'

g1 = 2.68% g2 = -2.40%

VPC Sta. = 5010+50.00
VPC Elev. = 1110.82
VPT Sta. = 5017+50.00
VPT Elev. = 1111.80

Proposed Profile Grade 235th St.

Note:
Top of bridge deck at centerline roadway is 0.03' below the profile grade to account for parabolic crown. Profile grade line (PGL) is at ℄.

Design Notes
1. TSS TL-5 Bridge Railing Proposed
2. Frame Type Pier Proposed assumed 4'-0" column width, pier type may change in final design
3. BTC Beams Proposed
4. Pier 1 is located within the acceptable clear zone of 30 feet. Collision requirement shall be evaluated during final design.
5. 2-Span Grading Shown (see EW 204 - 5' offset)
6. Superstructure and substructure shall be designed to accommodate future freight loads.
7. Review need for temporary shoring in median during final design.

## Minimum Vertical Clearance

### SB I-29
Overhead Station = 5013+28.81, 26.08' LT.
Overhead Elevation = 1114.95
Depth of Superstructure = 4.63'
Underpass Station = 1639+11.92, 37' LT.
Underpass Elevation = 1093.12
Minimum Vertical Clearance = 17.20'

### NB I-29
Overhead Station = 5014+05.42, 26.08' LT.
Overhead Elevation = 1115.24
Depth of Superstructure = 4.63'
Underpass Station = 1638+92.09, 37' RT.
Underpass Elevation = 1093.54
Minimum Vertical Clearance = 17.07'

## Traffic Estimate

| I-29 | |
|---|---|
| 2022 AADT | 20600 V.P.D. |
| 2050 AADT | 31,400 V.P.D. |
| 20-- DHV | - V.P.H. |
| TRUCKS | 26.1 % |
| Total Design ESALs | -- |

## Utilities Note:

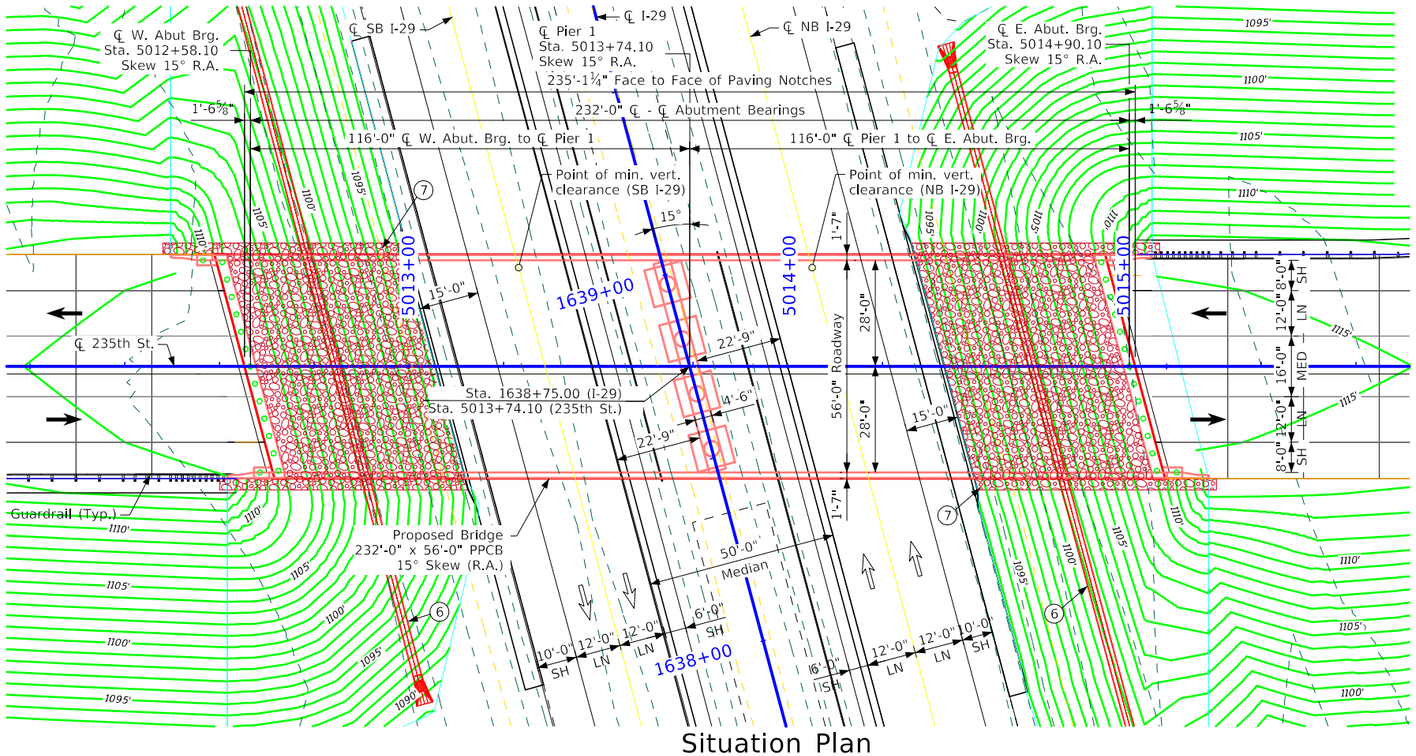
Utilities shown on this sheet are for information only. See Road Design sheets for utility information.

## General Utility Symbols:

E - Electric Line
G - Gas Line
SAN. - Sanitary Sewer
T - Telephone Line
W - Water Line
FO - Fiber Optic Line
GHP - Gas High Pressure
ST S - Storm Sewer
TV - TV
- Power Poles

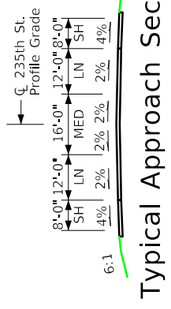
## Traffic Estimate

| 235th Street | |
|---|---|
| 2019 AADT | 100 V.P.D. |
| 2050 AADT | 4490 V.P.D. |
| 20-- DHV | - V.P.H. |
| TRUCKS | - % |
| Total Design ESALs | - |

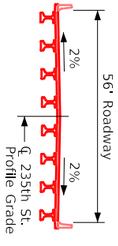



Situation Plan

Typical Approach Section




Typical Bridge Section




N

Scale In Feet 0 20

## Location

235th Street over I-29
T-87N R-47W
Section 8
Liberty Township
Woodbury County
FHWA No. 701220
Latitude 42.364207°
Longitude -96.345550°

PRELIMINARY

Design For 15° Skew (R.A.)

# 232'-0" x 56'-0" Pretensioned Prestressed Conc. Beam Bridge

116'-0" End Spans BTC Beams

## Situation Plan

STA. 5013+74.10 (235th St.) Turn-in Date: Nov 2023

## Woodbury County

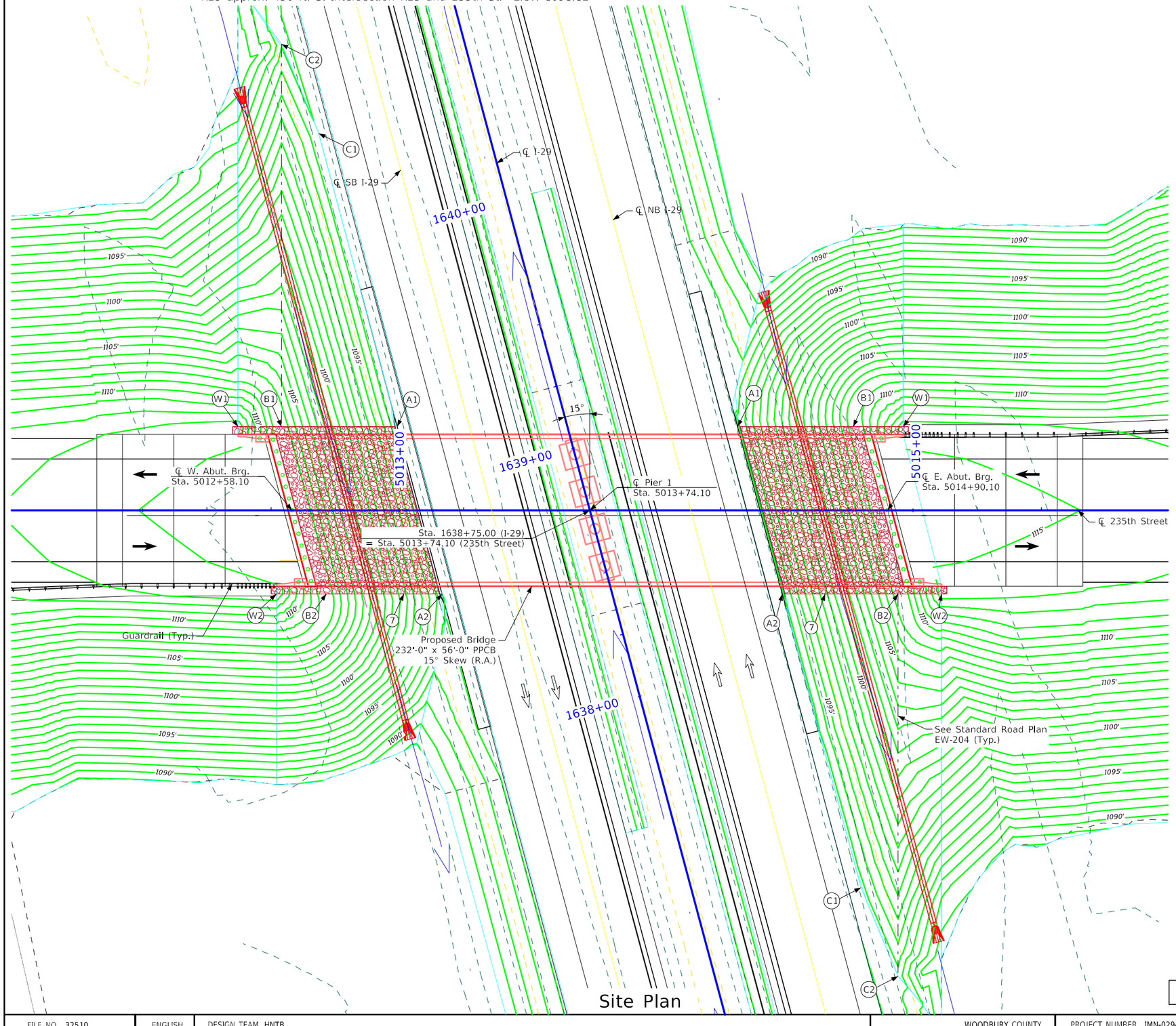
IOWA DEPARTMENT OF TRANSPORTATION

Design No. 626 Design Sheet No. 1 of 2 FHWA No. 701220

| FILE NO. 32510 | ENGLISH | DESIGN TEAM HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(314)139--0E-97 | SHEET NUMBER V.1 |
|---|---|---|---|---|---|

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Control Point 97K25023: N 8542503.05, E 14089982.04; CP FENO Monument set in N edge of field entrance on east side K25 approx. 450 ft. S. Intersection K25 and 235th St. Elev. 1091.12




Site Plan

⑦ Macadam Stone Slope Protection

## Berm Slope Location Table

| Points | West Abutment | | | East Abutment | | |
|---|---|---|---|---|---|---|
| | Station | Offset | Elev. | Station | Offset | Elev. |
| A1 | 5012+99.11 | 32.58' Lt. | 1092.08 | 5014+31.62 | 32.58' Lt. | 1092.71 |
| A2 | 5013+16.57 | 32.58' Rt. | 1092.05 | 5014+49.08 | 32.58' Rt. | 1092.77 |
| B1 | 5012+54.02 | 32.58' Lt. | 1107.89 | 5014+76.71 | 32.58' Lt. | 1108.70 |
| B2 | 5012+71.49 | 32.58' Rt. | 1107.89 | 5014+94.17 | 32.58' Rt. | 1108.70 |
| W1 | 5012+37.10 | 32.58' Lt. | 1113.85 | 5014+96.10 | 32.58' Lt. | 1114.84 |
| W2 | 5012+52.10 | 32.58' Rt. | 1114.04 | 5015+11.10 | 32.58' Rt. | 1114.75 |

Berm slope elevations reflect the grading surface.

## Recoverable Berm Location Table

| Points | West Abutment | | | East Abutment | | |
|---|---|---|---|---|---|---|
| | Station | Offset | Elev. | Station | Offset | Elev. |
| C1 | 5012+68.51 | 146.76' Lt. | 1092.03 | 5014+79.76 | 147.06' Rt. | 1092.75 |
| C2 | 5012+54.02 | 181.52' Lt. | 1091.87 | 5014+94.16 | 181.51' Rt. | 1092.61 |
| C3 | 5012+54.02 | 220.16' Lt. | 1092.29 | 5014+94.16 | 219.95' Rt. | 1093.02 |

Points C3 for the abutments are beyond the limits of this sheet. See the "Recoverable Berm Location Table" for their locations, offsets and elevations.

N

Design Notes
1. TL-5 Bridge Railing Proposed
2. Frame Type Pier Proposed
3. BTC Beams Proposed
4. Pier 1 is located within the acceptable clear zone of 30 feet.
5. 2-Span Grading Shown (see EW 204 - 5' offset)
6. Superstructure and substructure shall be designed to accommodate future freight loads.
7. Review need for temporary shoring in median during final design.

PRELIMINARY

Design For 15° Skew (R.A.)

# 232'-0" x 56'-0" Pretensioned Prestressed Conc. Beam Bridge

116'-0" End Spans — BTC Beams

## Situation Plan - Site

STA. 5013+74.10 (235th St.) — Turn-in Date: Nov 2023

## Woodbury County

IOWA DEPARTMENT OF TRANSPORTATION

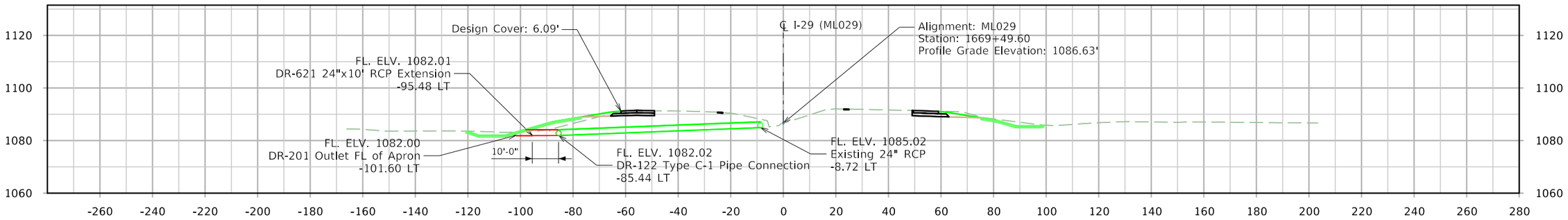
Design No. 626 — Design Sheet No. 2 of 2 — FHWA No. 701220

| FILE NO. 32510 | ENGLISH | DESIGN TEAM HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(314)139--0E-97 | SHEET NUMBER V.2 | |
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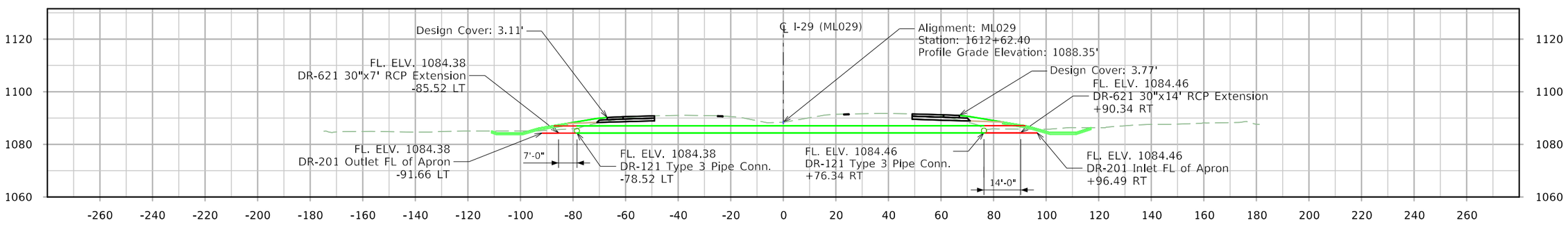
# I-29

Remove existing apron and lay 10ft of 24" RCP and place DR-201 outlet apron and a DR-122 pipe connection. Install culvert extension and apron during Stage 2.




STA. 1669+49.60

Remove existing apron both ends. Left end lay 7ft of 30" RCP, place DR-201 outlet apron.
Right end lay 14ft of 30" RCP, place DR-201 inlet apron. Install both culvert extensions and aprons during Stage 2.



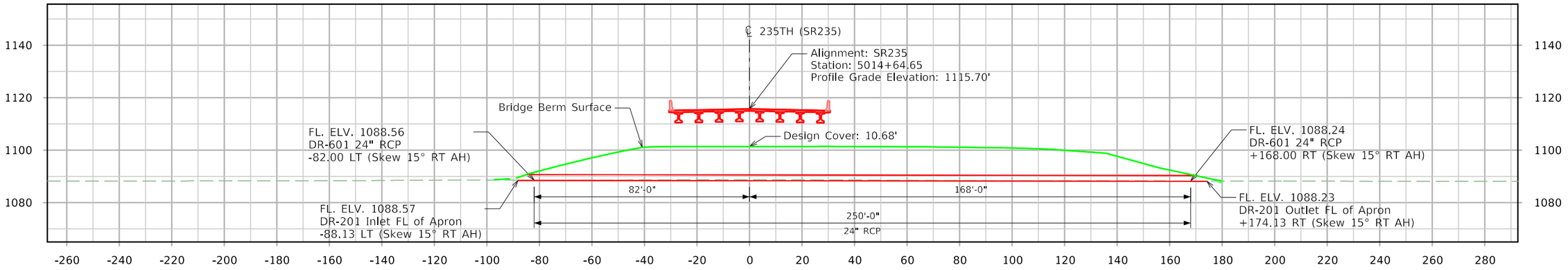

STA. 1612+62.40

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VW.1 |
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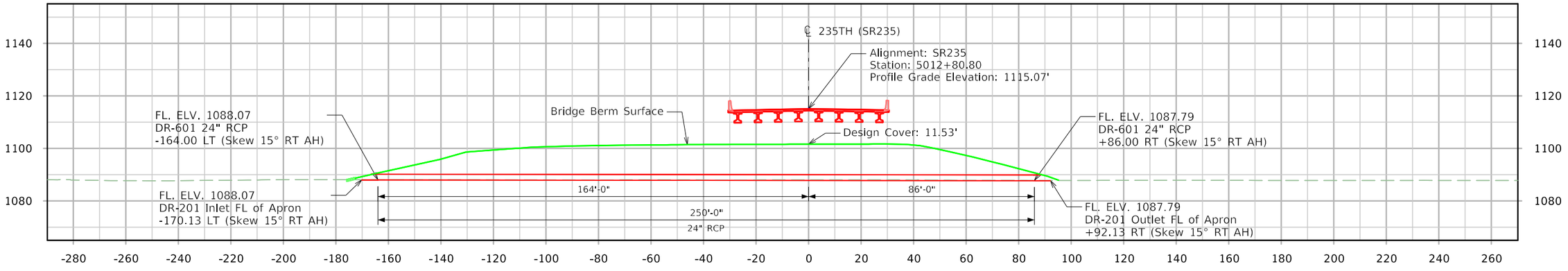
# 235th Street

Lay 250ft 24" RCP with DR-201 apron on Inlet and DR-201 on outlet. Skew RT ahead 15 degrees. Install culvert and aprons during Stage 1.



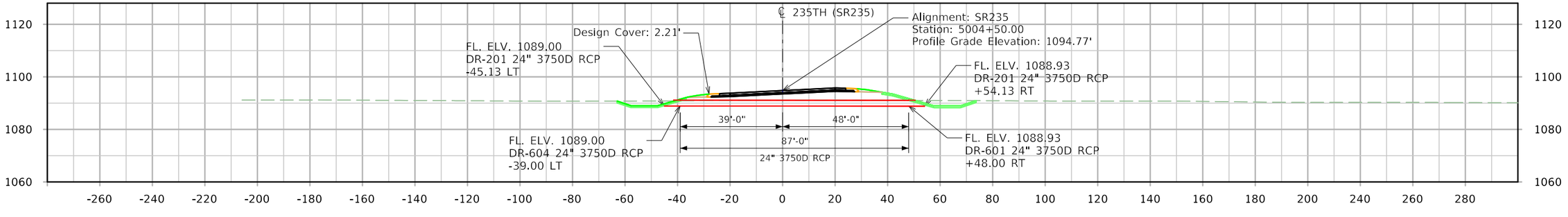

STA. 5014+64.65

Lay 250ft 24" RCP with DR-201 apron on Inlet and DR-201 on outlet. Skew RT ahead 15 degrees. Install culvert and aprons during Stage 1.




STA. 5012+80.80

Lay 87ft 24" 3750D RCP with DR-201 apron on Inlet and DR-201 on outlet. Install culvert and aprons during Stage 1.



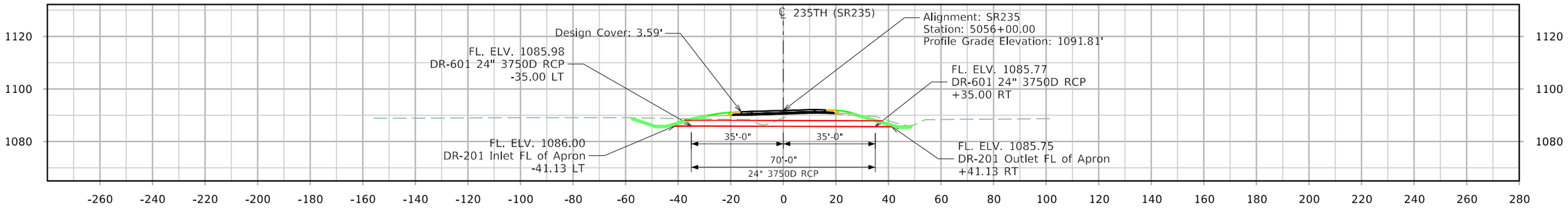

STA. 5004+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VX.1 |
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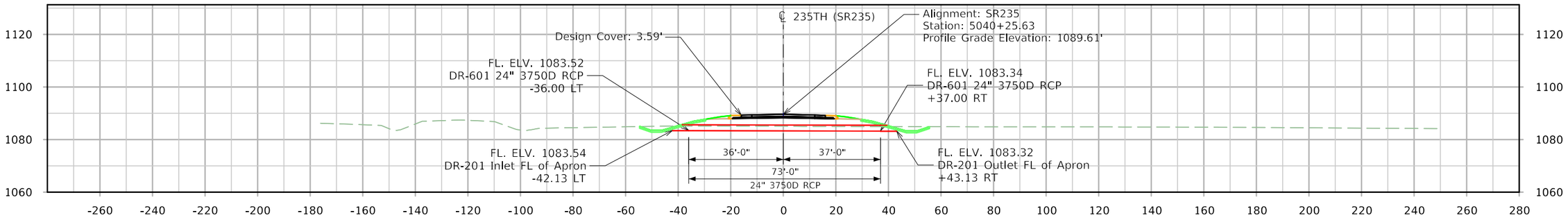
# 235th Street

Lay 70ft 24" 3750D RCP with DR-201 apron on Inlet and DR-201 on outlet. Install culvert and aprons during Stage 2.



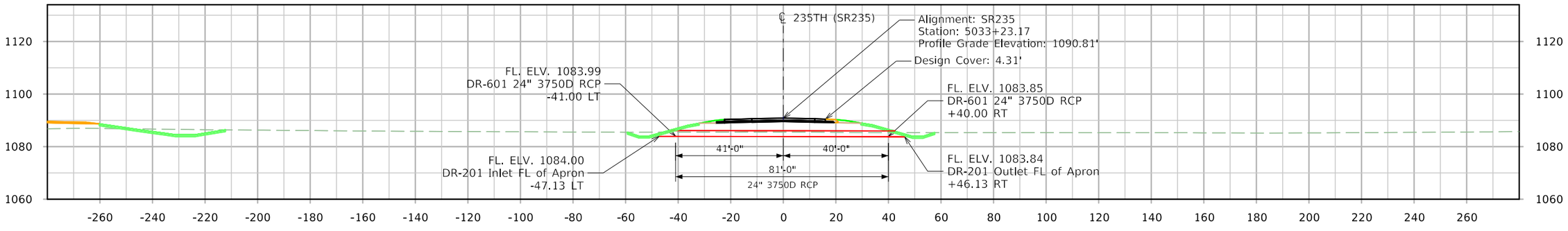

STA. 5056+00.00

Lay 73ft 24" 3750D RCP with DR-201 apron on Inlet and DR-201 on outlet. Install culvert and aprons during Stage 1.




STA. 5040+25.63

Lay 81ft 24" 3750D RCP with DR-201 apron on Inlet and DR-201 on outlet. Install culvert and aprons during Stage 1.



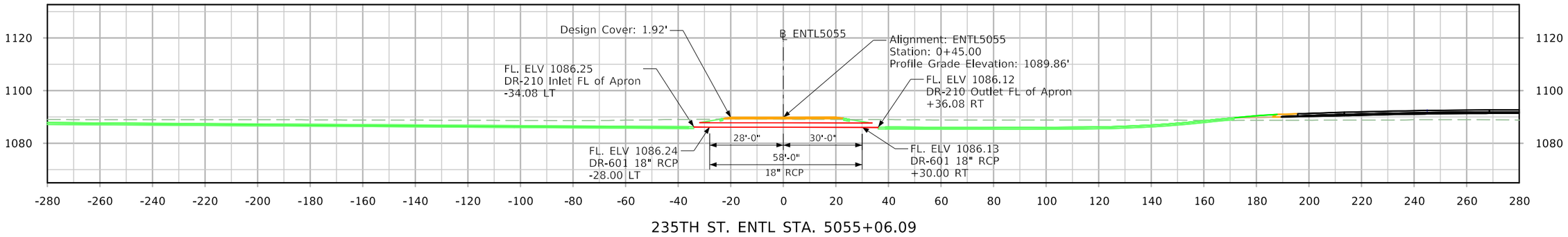

STA. 5033+23.17

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VX.2 |
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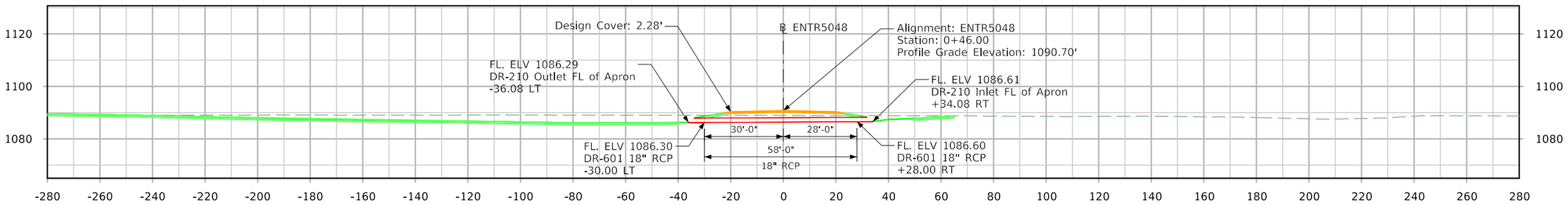
# 235th Street Field Entrances

Lay 58ft 18" RCP with DR-201 apron on Inlet and DR-201 apron on Outlet. Install culvert and aprons during Stage 1.
Offsets labeled in cross section are measured from CL of field entrance along culvert alignment.



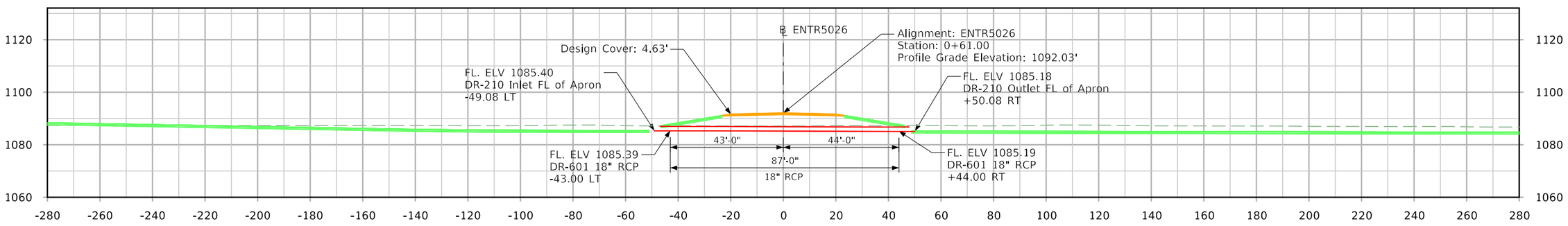

235TH ST. ENTL STA. 5055+06.09

Lay 58ft 18" RCP with DR-201 apron on Inlet and DR-201 apron on Outlet. Install culvert and aprons during Stage 1.
Offsets labeled in cross section are measured from CL of field entrance along culvert alignment.




235TH ST. ENTR STA. 5048+00.00

Lay 87ft 18" RCP with DR-201 apron on Inlet and DR-201 apron on Outlet. Install culvert and aprons during Stage 1.
Offsets labeled in cross section are measured from CL of field entrance along culvert alignment.



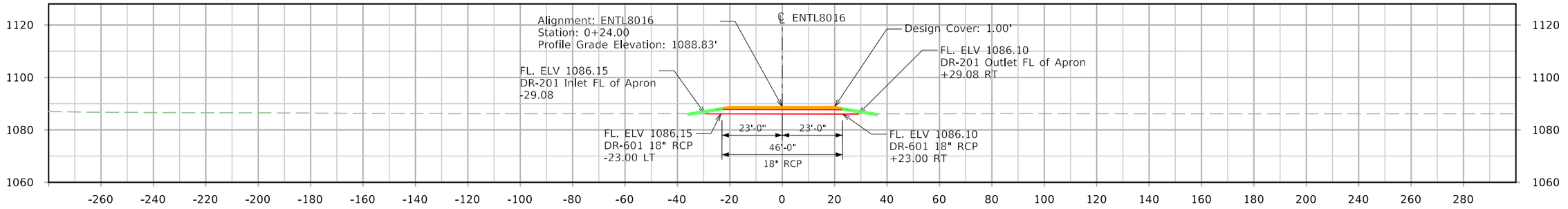

235TH ST. ENTR STA. 5026+00.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VX.3 |
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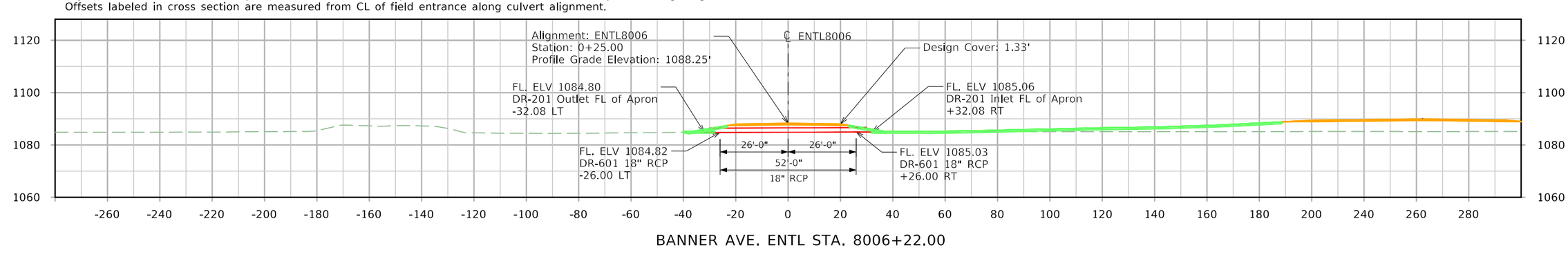
# Banner Avenue Field Entrances

Lay 46ft 18" RCP with DR-201 apron on Inlet and DR-201 apron on Outlet. Install culvert and aprons during Stage 1.
Offsets labeled in cross section are measured from CL of field entrance along culvert alignment.




BANNER AVE. ENTL STA. 8016+00.00

Lay 52ft 18" RCP with DR-201 apron on Inlet and DR-201 apron on Outlet. Install culvert and aprons during Stage 1.
Offsets labeled in cross section are measured from CL of field entrance along culvert alignment.



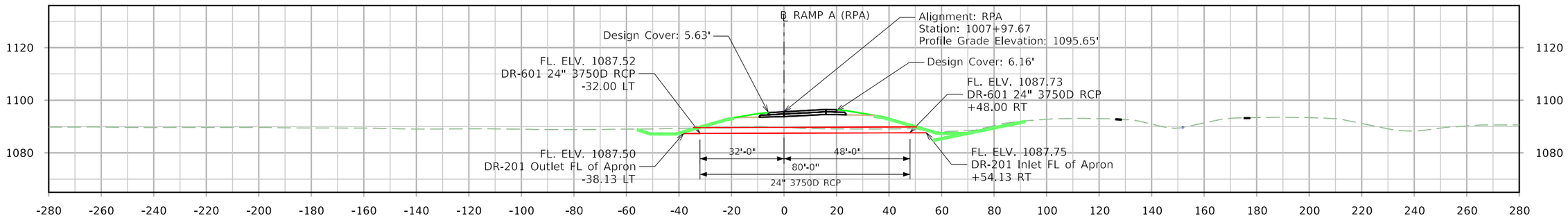

BANNER AVE. ENTL STA. 8006+22.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VX.4 |
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# I-29 Ramp A

Lay 80ft 24" 3750 RCP with DR-201 apron on Inlet and DR-201 on outlet. Install culvert and aprons during Stage 1.



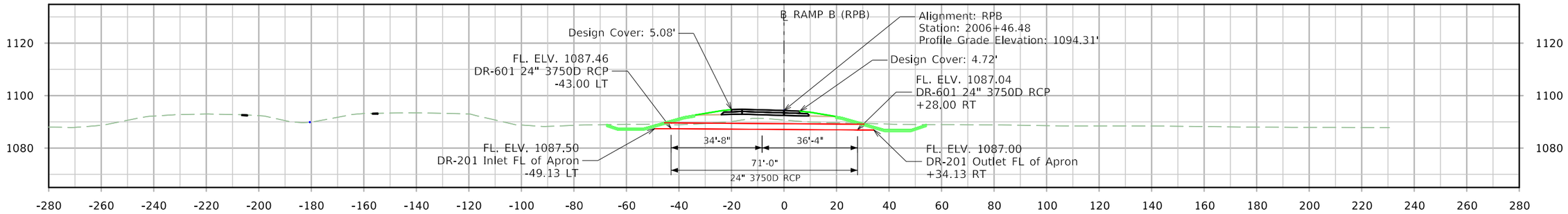

STA. 1007+97.67

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VY.1 | |
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# I-29 Ramp B

Lay 71ft 24" 3750 RCP with DR-201 apron on Inlet and DR-201 on outlet. Install culvert and aprons during Stage 1.



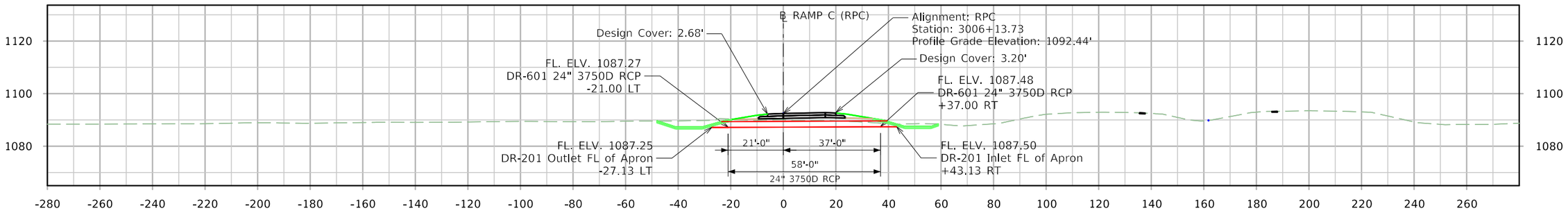

STA. 2006+46.48

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VY.2 | |
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# I-29 Ramp C

Lay 58ft 24" 3750 RCP with DR-201 apron on Inlet and DR-201 on outlet. Install culvert and aprons during Stage 1.



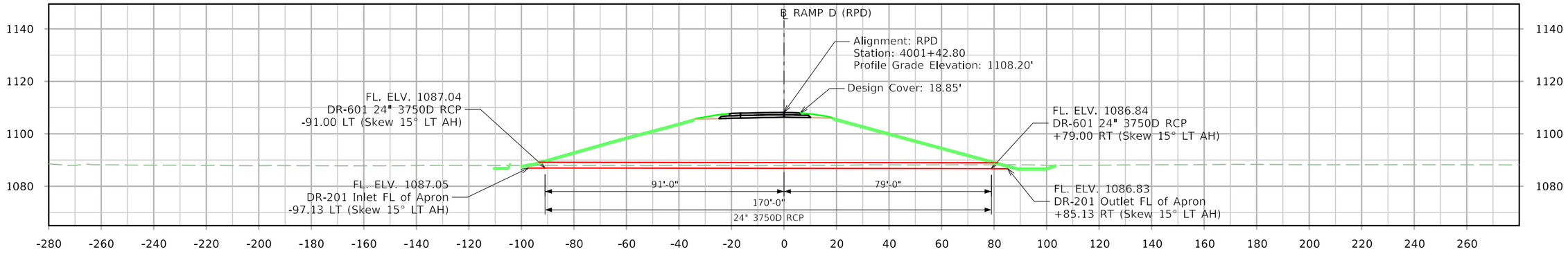

STA. 3006+13.73

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VY.3 | |
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# I-29 Ramp D

Lay 170ft 24" 3750 RCP with DR-201 apron on Inlet and DR-201 on outlet.  Skew LT ahead 15 degrees. Install culvert and aprons during Stage 1.




STA. 4001+42.80

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER VY.4 | |
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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 |
| **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:**

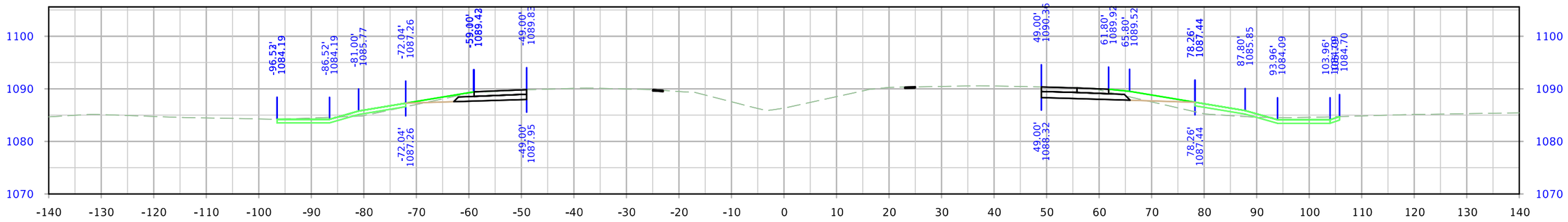
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# CROSS SECTIONS
# LEGEND AND INFORMATION SHEET

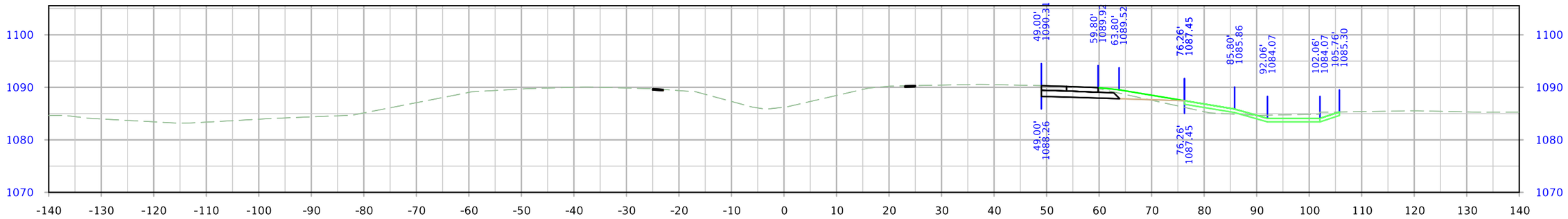
(COVERS SHEET SERIES W, X, & Y)

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.1 | |
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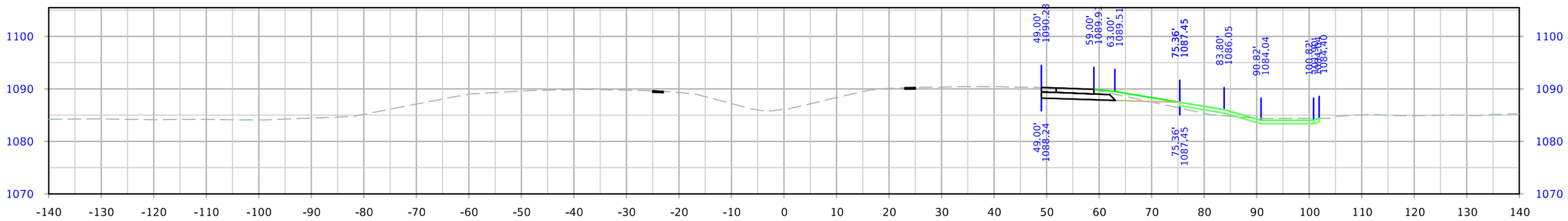
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STA. 1606+00.00



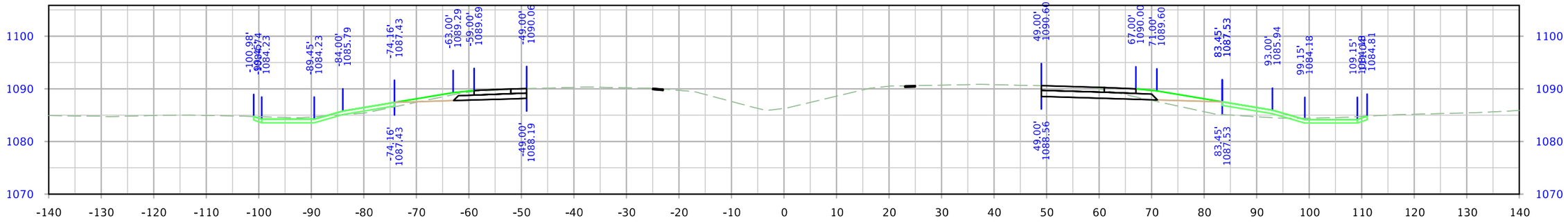

STA. 1605+50.00



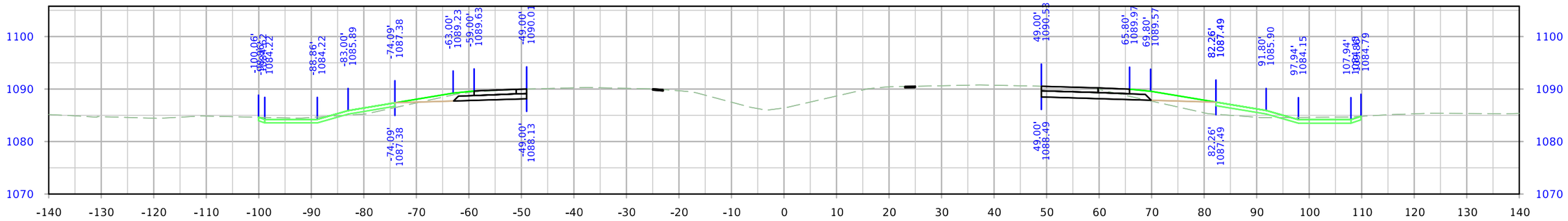

STA. 1605+00.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.2 | |
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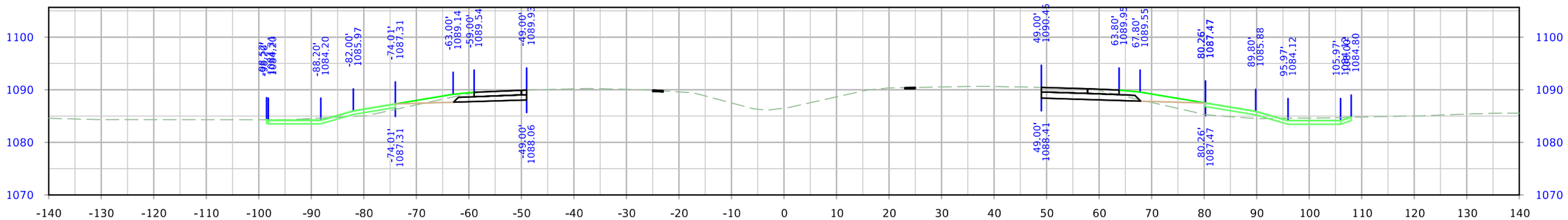
# I-29




STA. 1607+50.00



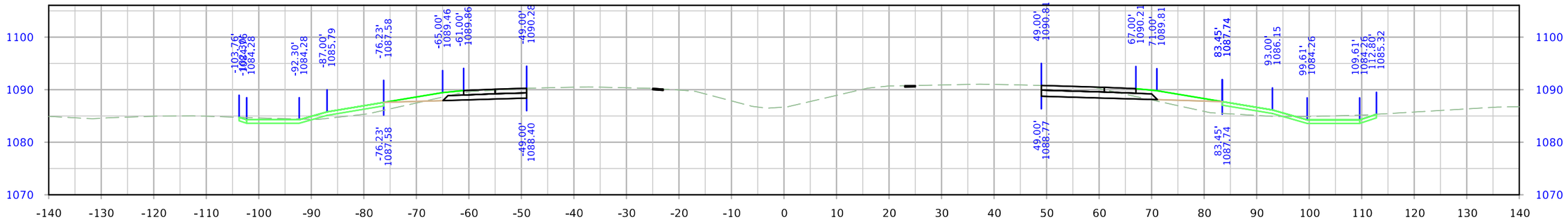

STA. 1607+00.00



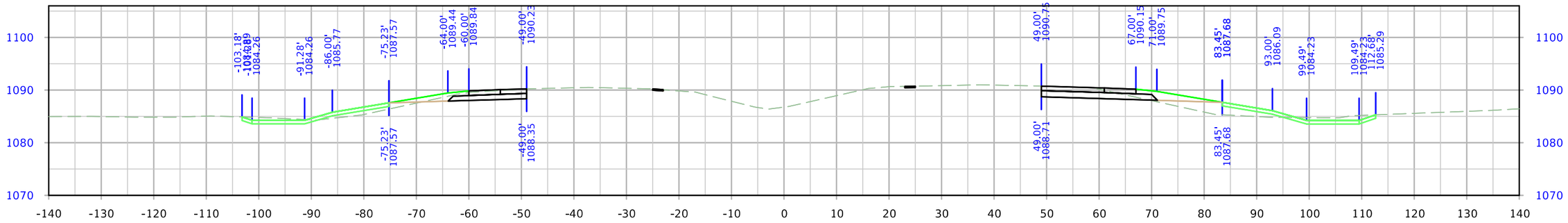

STA. 1606+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.3 | |
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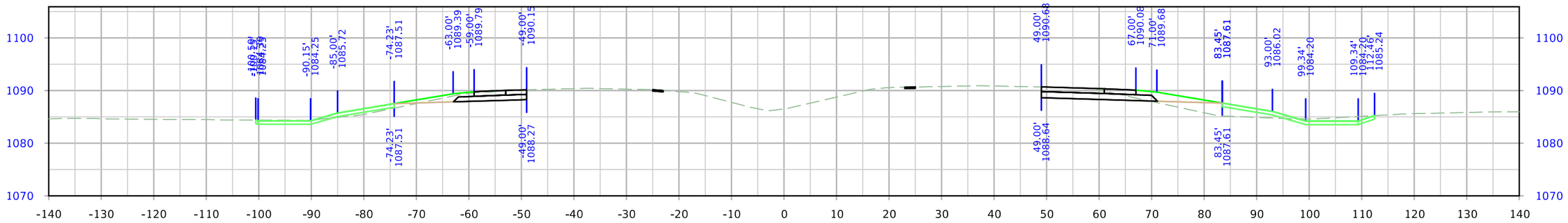
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STA. 1609+00.00




STA. 1608+50.00

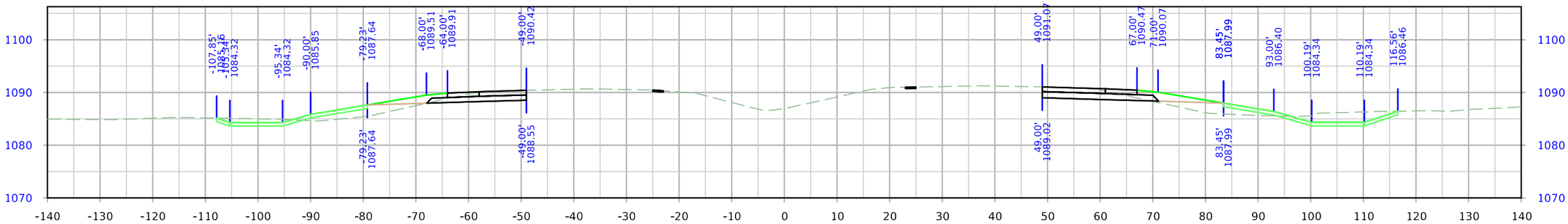



STA. 1608+00.00

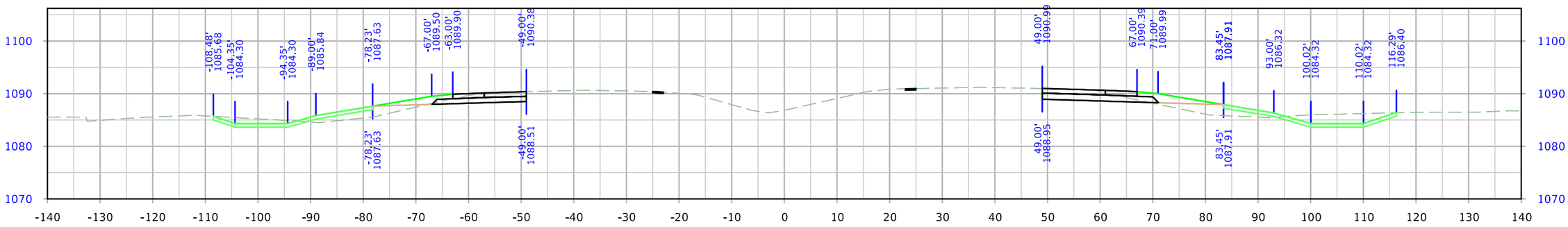
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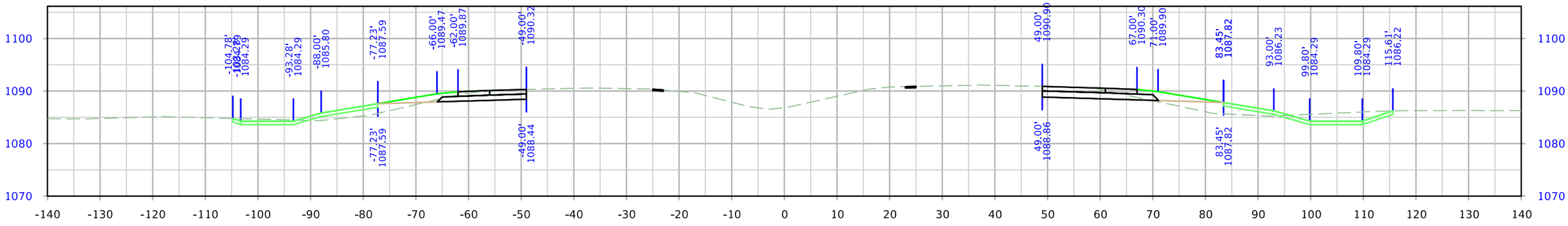
# I-29




STA. 1610+50.00



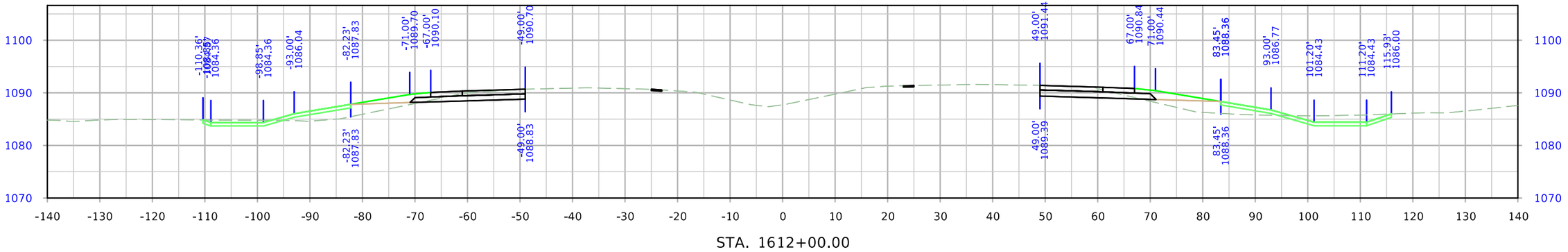

STA. 1610+00.00



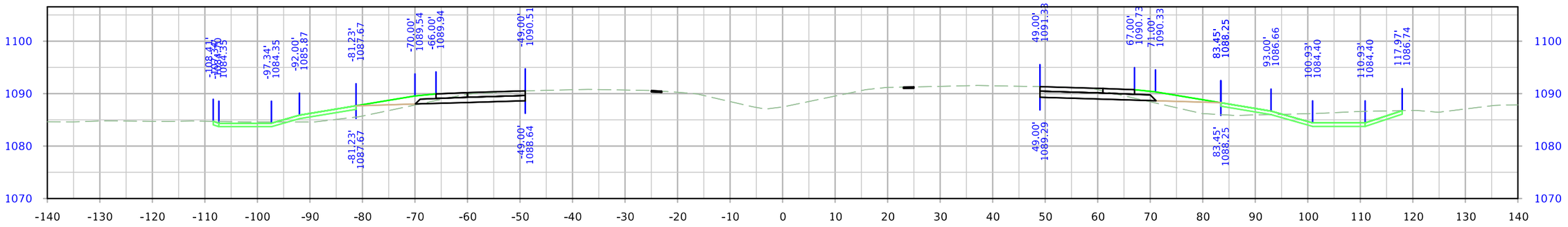

STA. 1609+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.5 |
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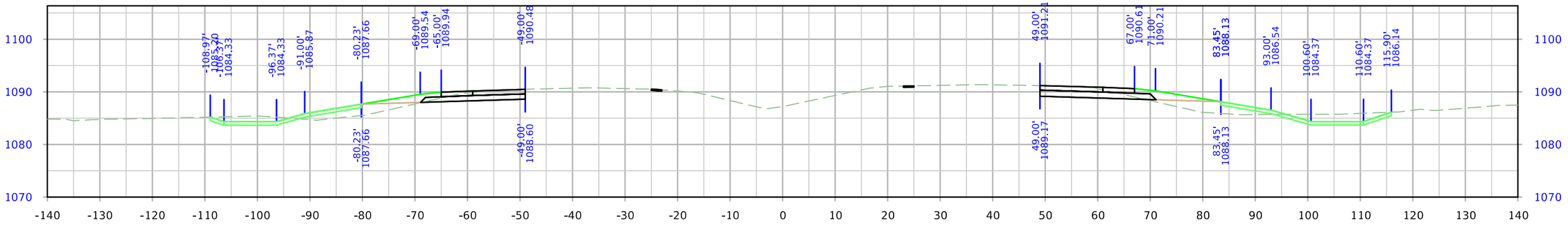
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STA. 1612+00.00




STA. 1611+50.00

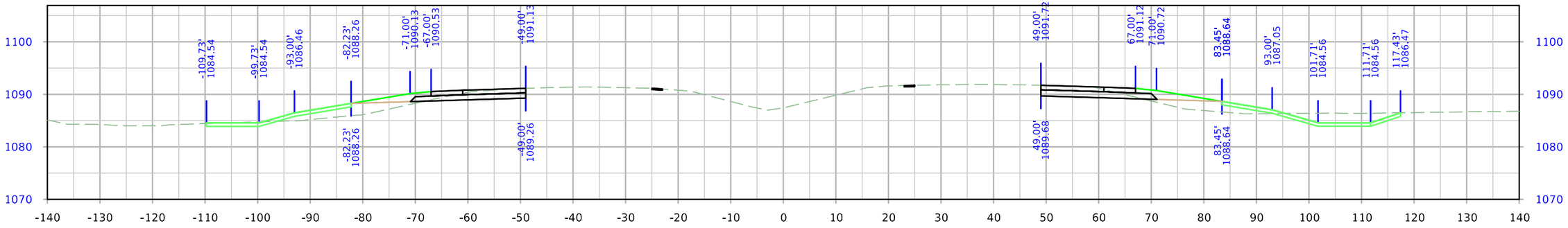



STA. 1611+00.00

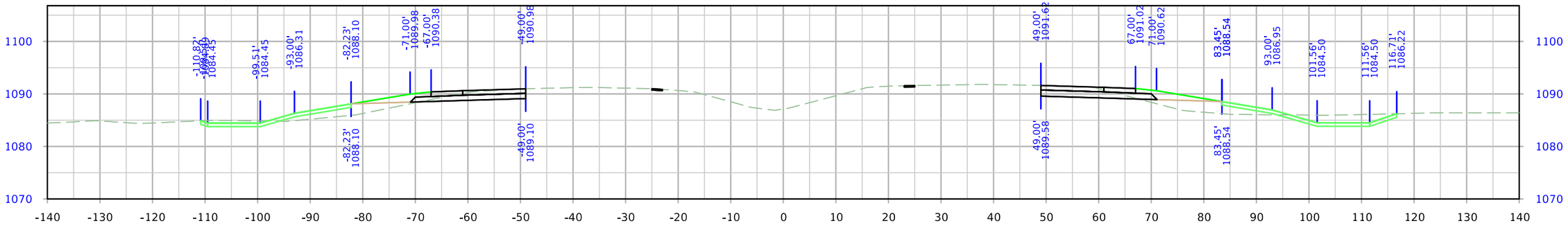
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9:33:56 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

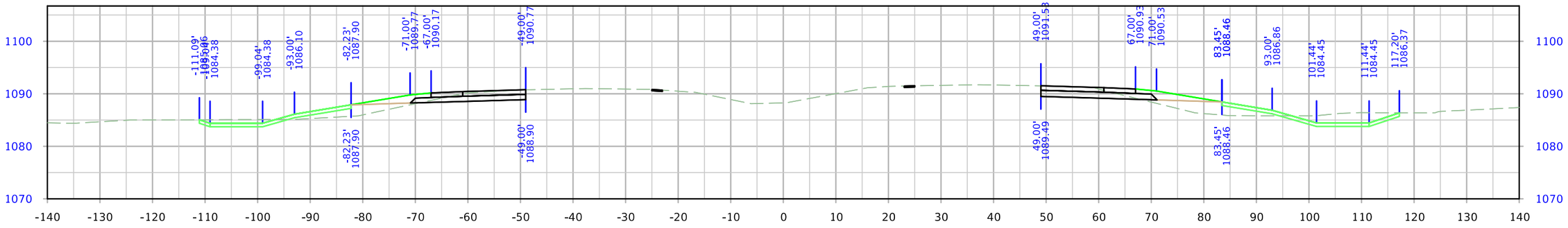
# I-29




STA. 1613+50.00




STA. 1613+00.00

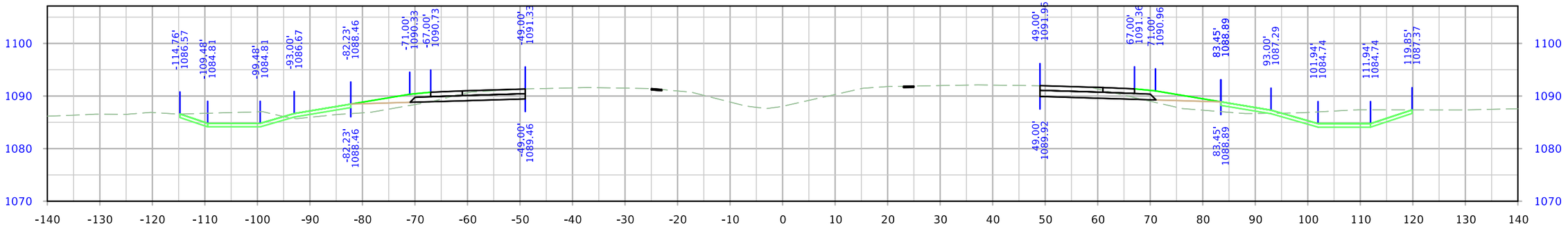



STA. 1612+50.00

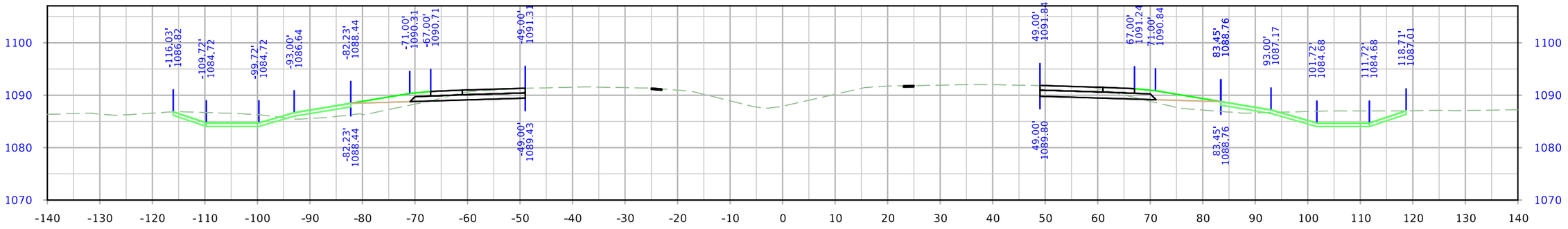
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.7 |
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9:33:58 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

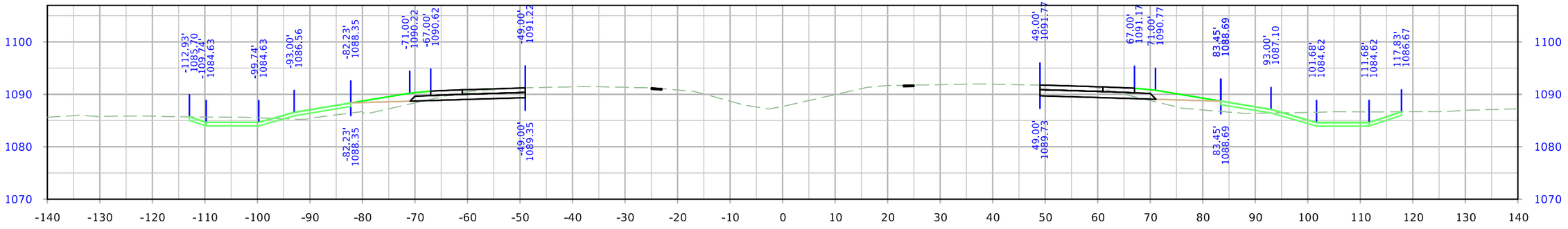
# I-29




STA. 1615+00.00




STA. 1614+50.00

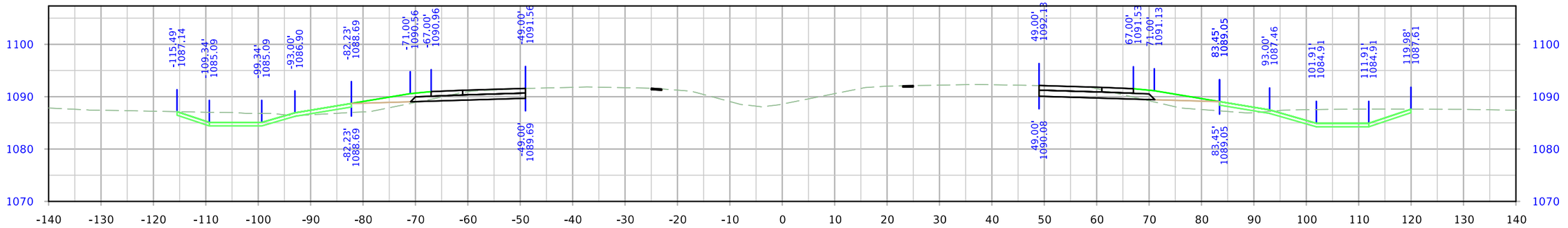



STA. 1614+00.00

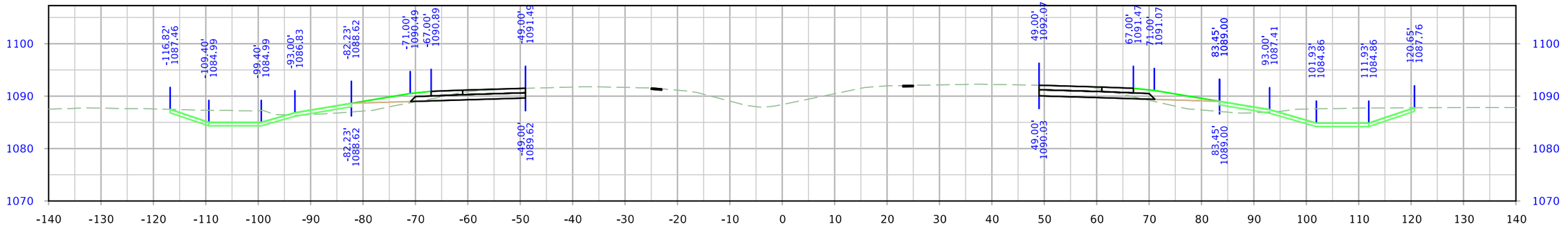
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.8 | |
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9:34:00 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

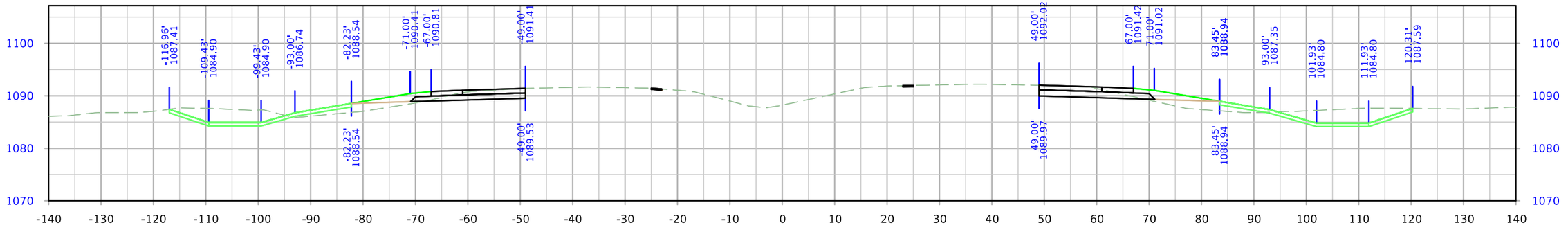
# I-29




STA. 1616+50.00




STA. 1616+00.00

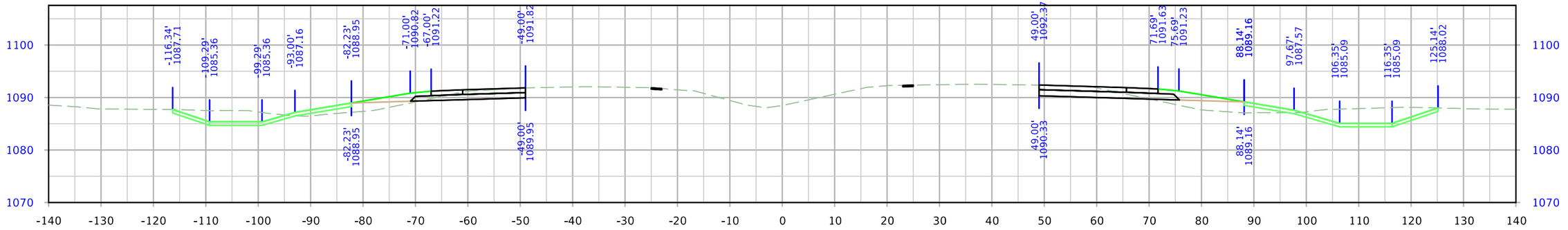



STA. 1615+50.00

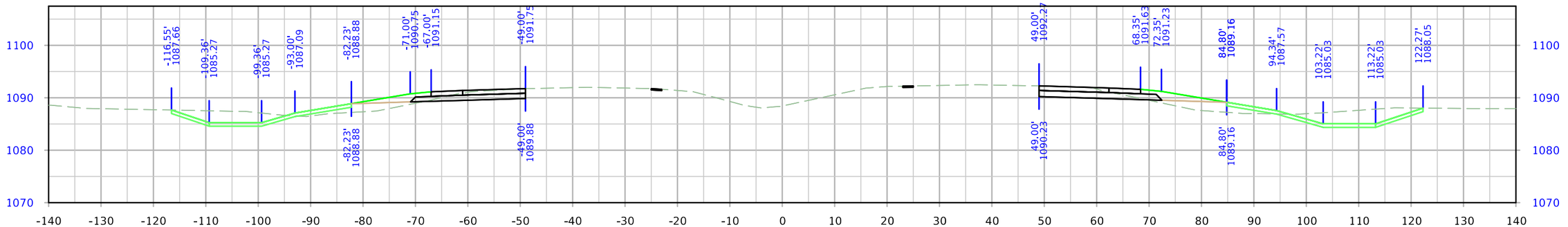
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.9 |
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9:34:02 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

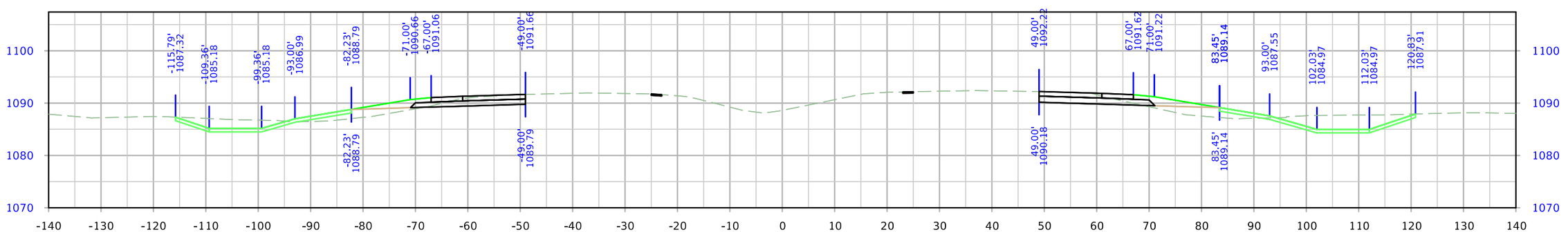
# I-29




STA. 1618+00.00




STA. 1617+50.00

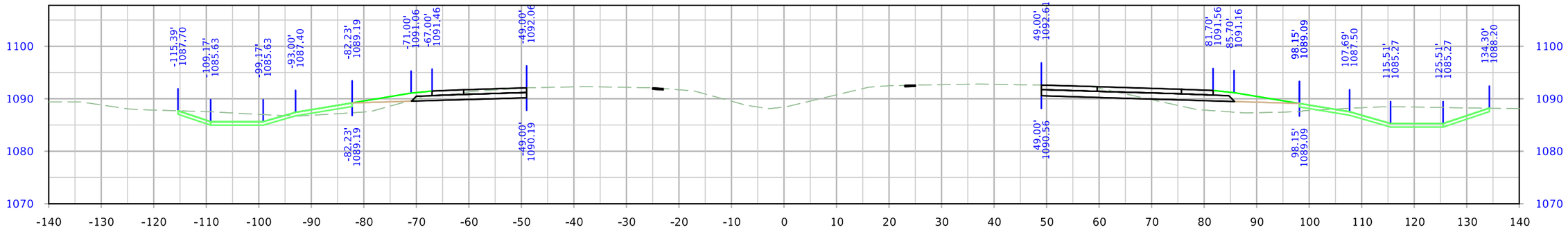



STA. 1617+00.00

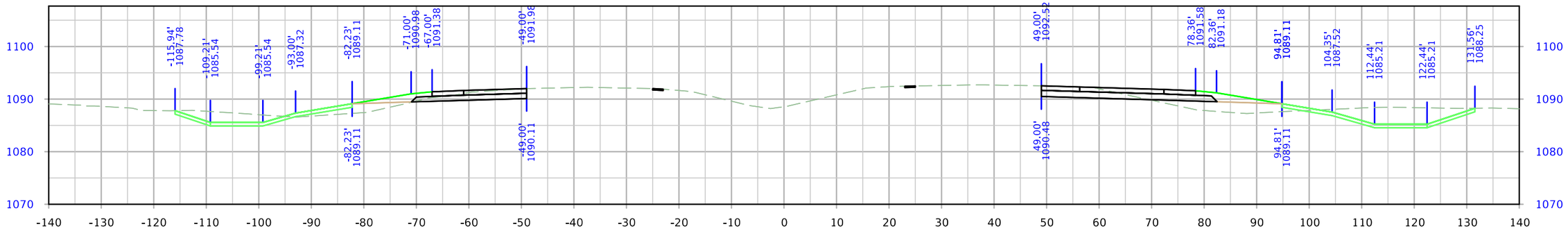
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.10 |
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9:34:05 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

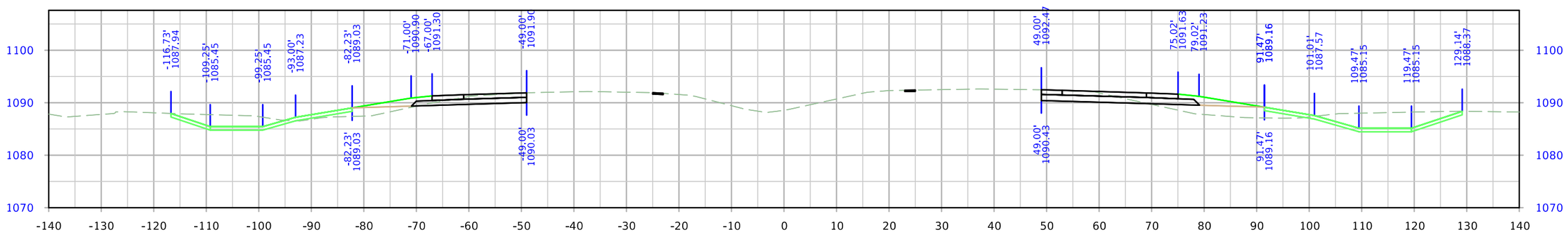
# I-29




STA. 1619+50.00




STA. 1619+00.00

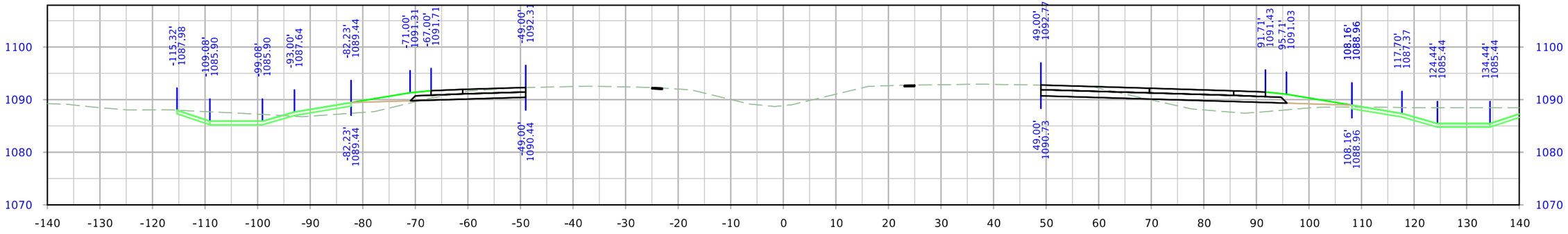



STA. 1618+50.00

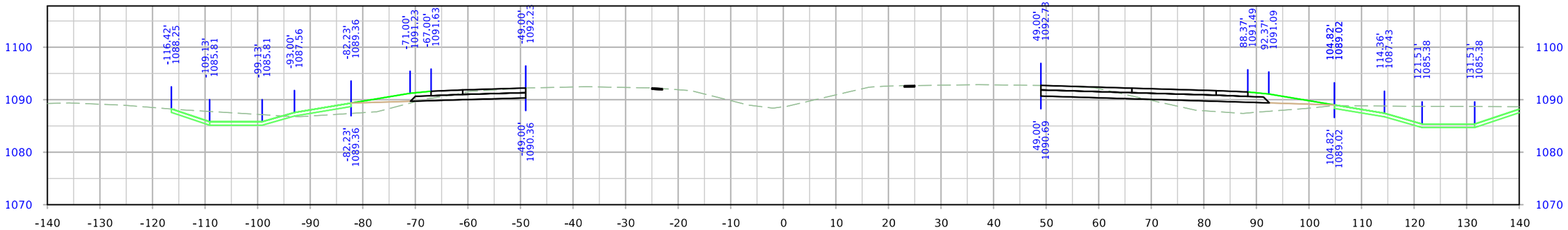
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.11 |
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9:34:07 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

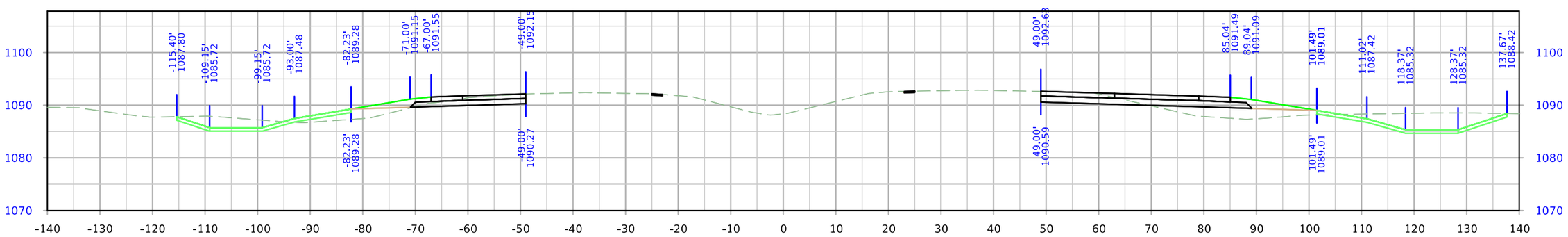
# I-29




STA. 1621+00.00




STA. 1620+50.00

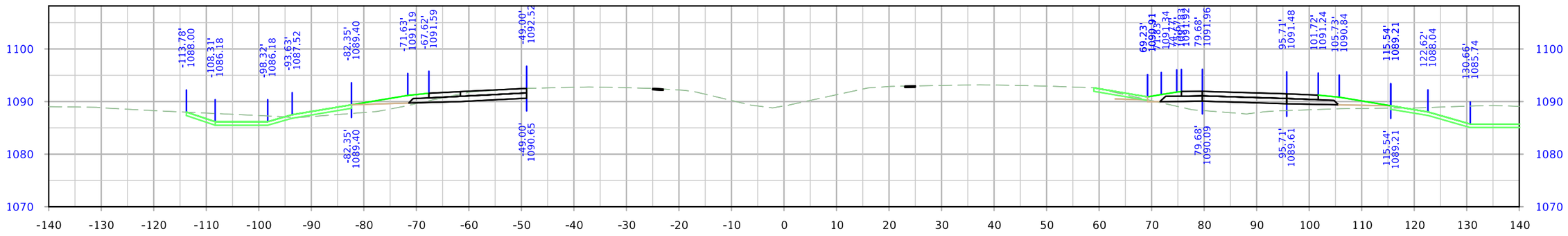



STA. 1620+00.00

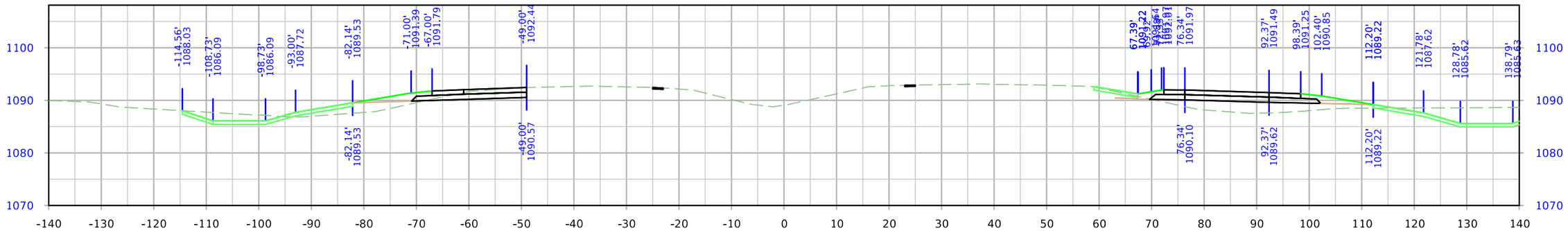
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.12 |
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9:34:09 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

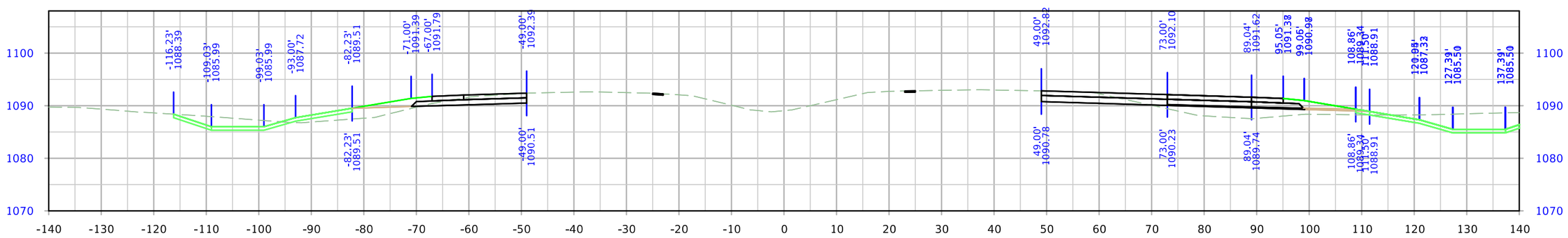
# I-29




STA. 1622+50.00




STA. 1622+00.00

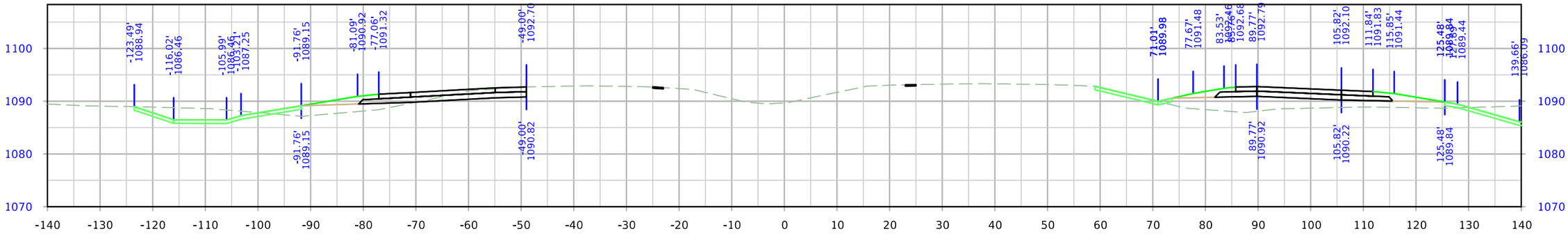



STA. 1621+50.00

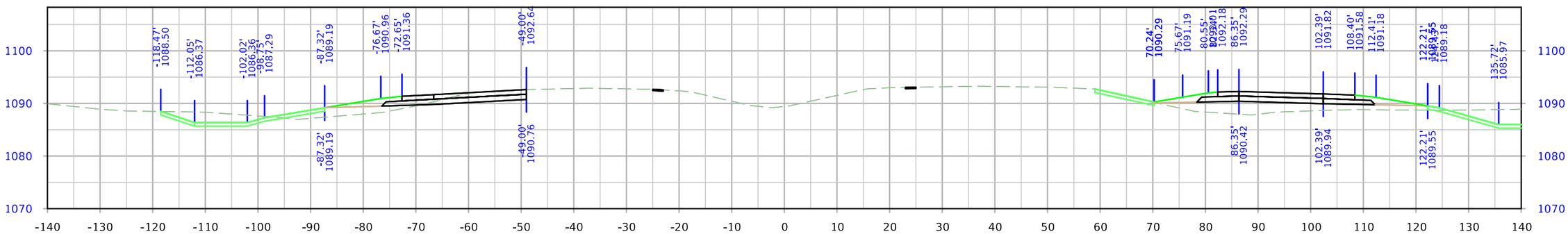
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.13 |
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9:34:11 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

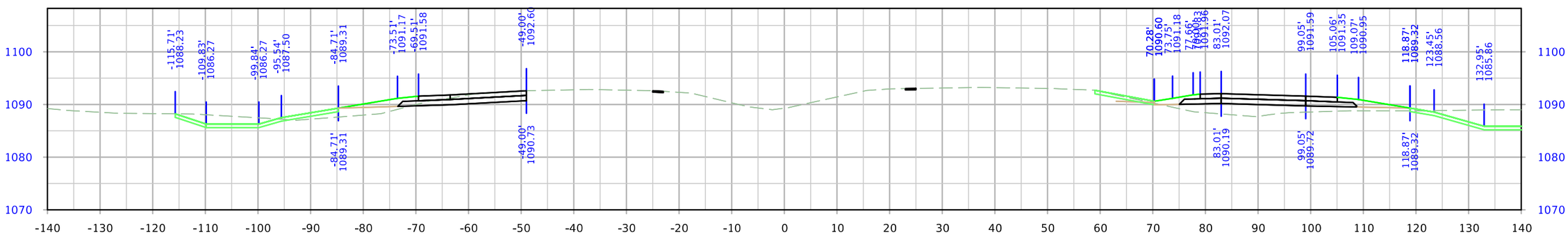
# I-29




STA. 1624+00.00




STA. 1623+50.00

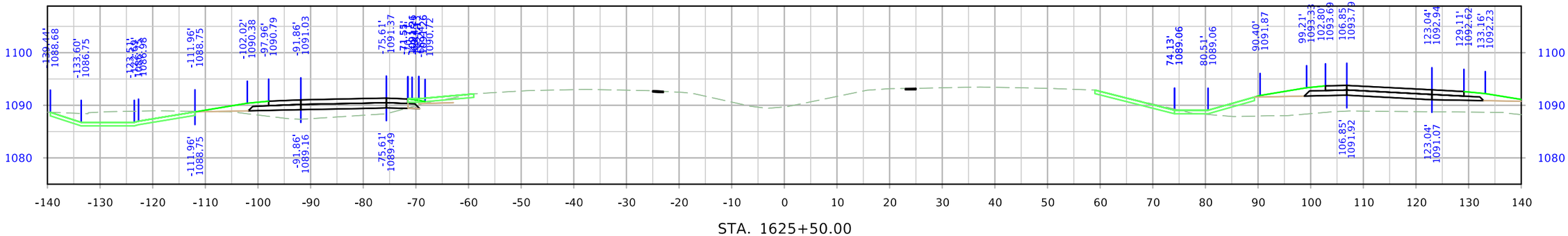



STA. 1623+00.00

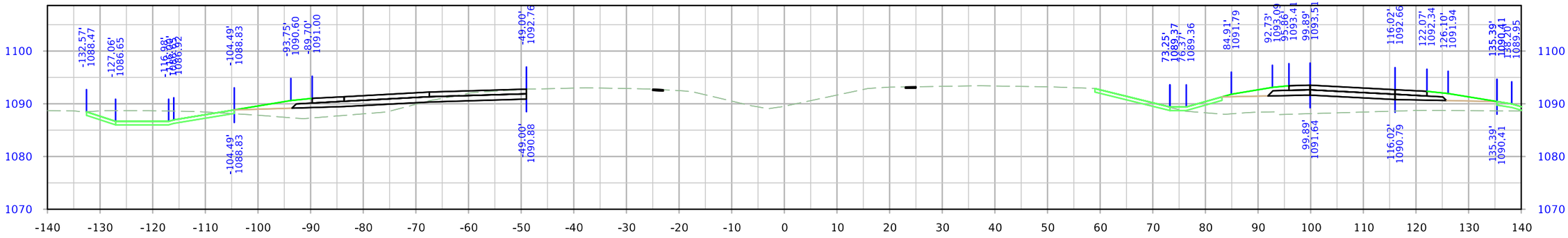
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.14 |
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9:34:14 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

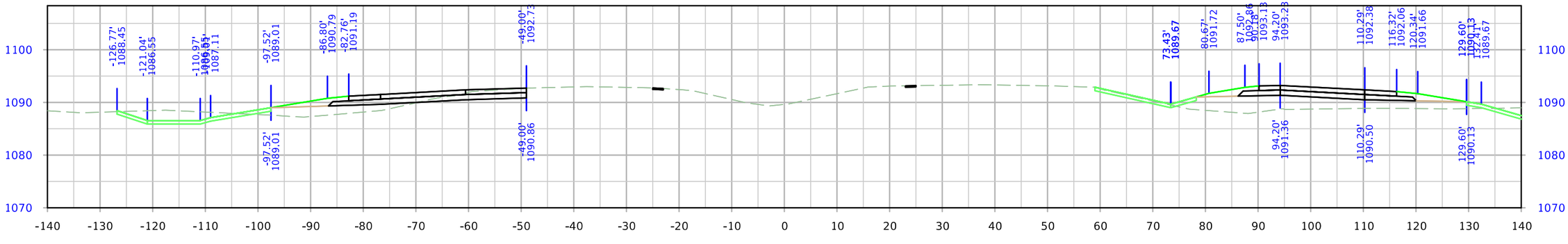
# I-29




STA. 1625+50.00




STA. 1625+00.00

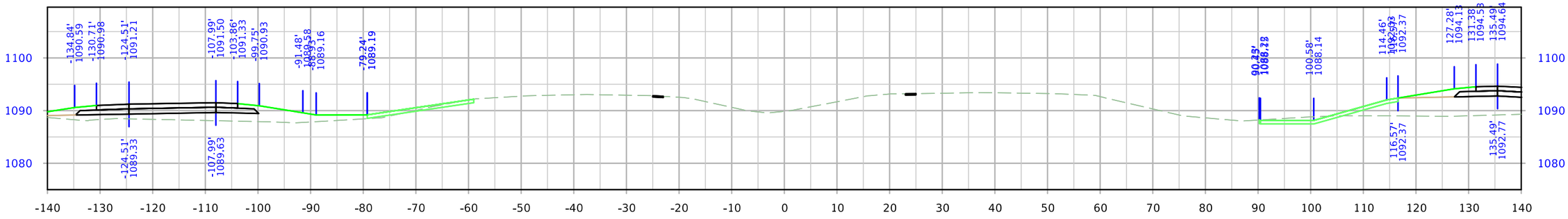



STA. 1624+50.00

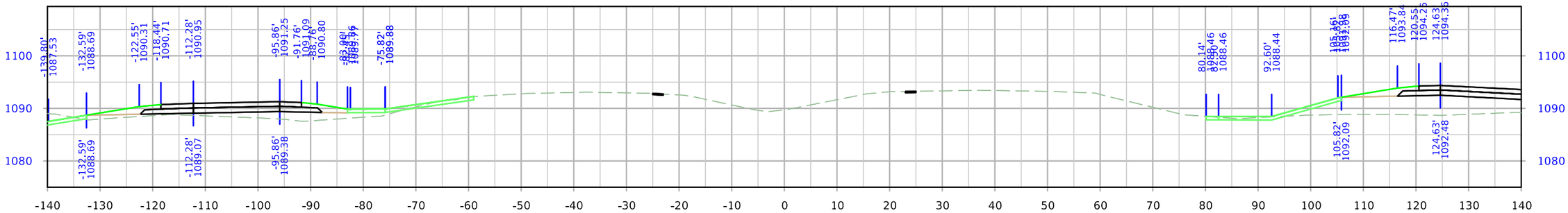
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.15 |
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9:34:16 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

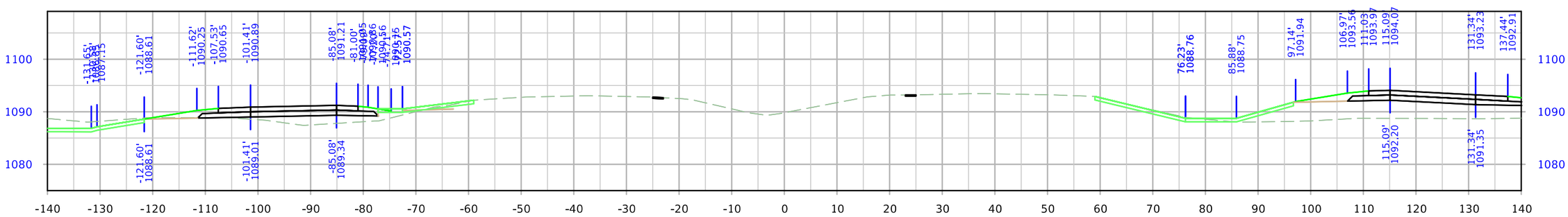
# I-29




STA. 1627+00.00




STA. 1626+50.00

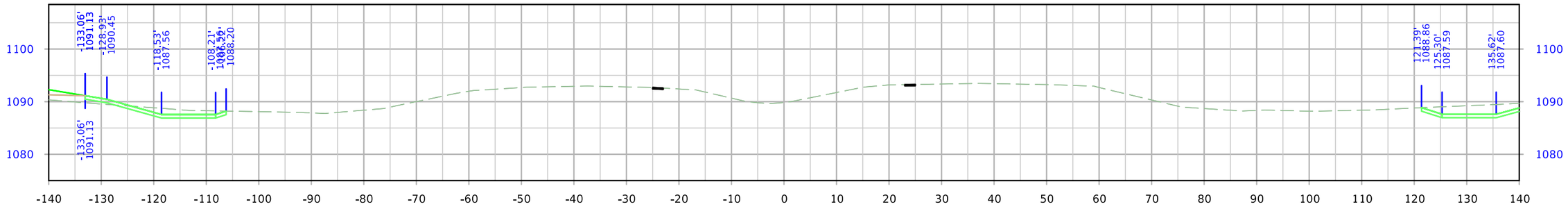



STA. 1626+00.00

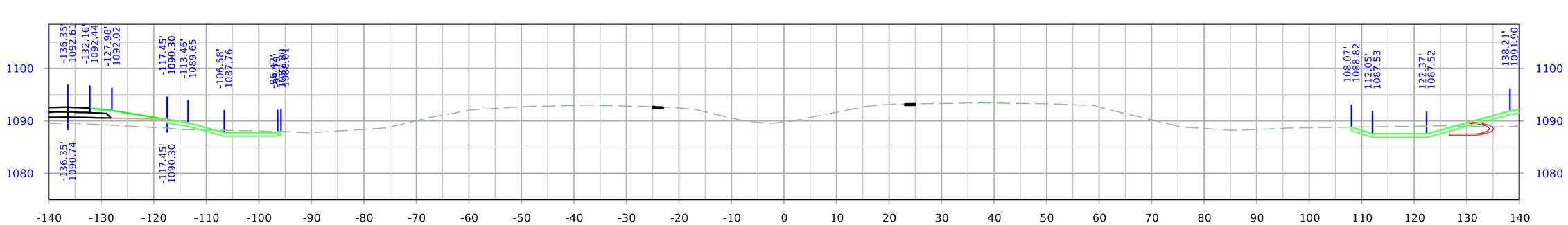
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.16 |
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9:34:19 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

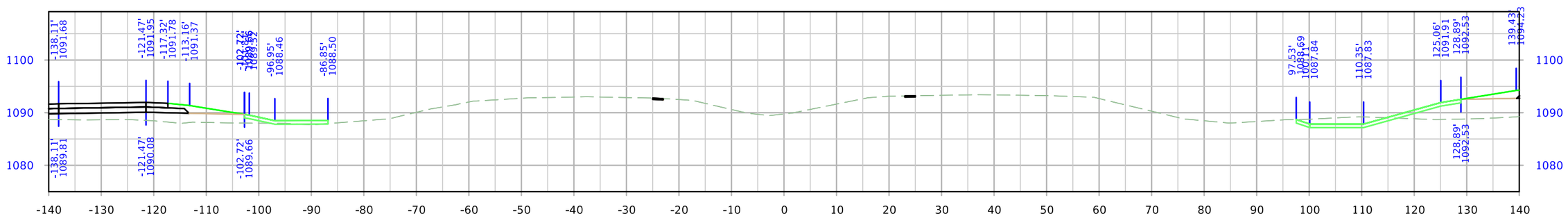
# I-29




STA. 1628+50.00




STA. 1628+00.00

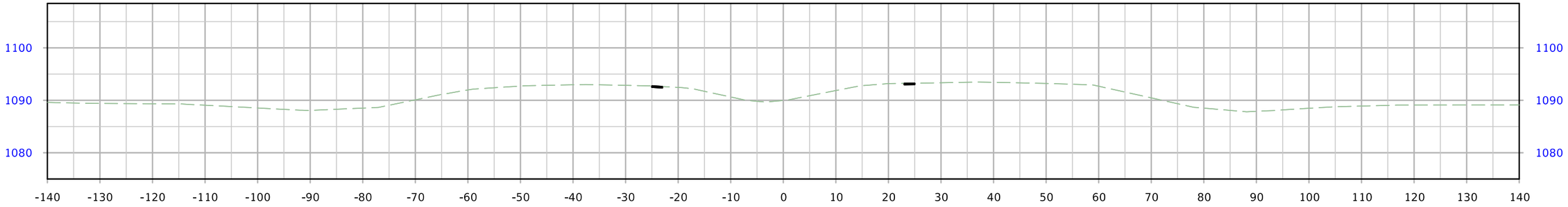



STA. 1627+50.00

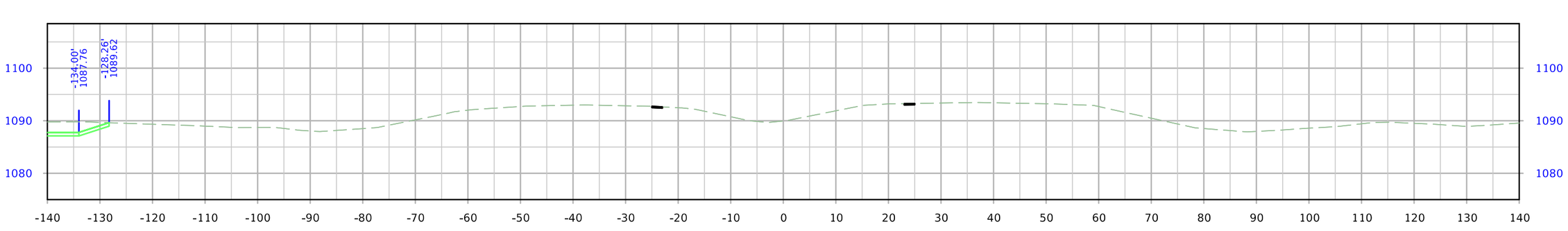
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.17 |
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9:34:24 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

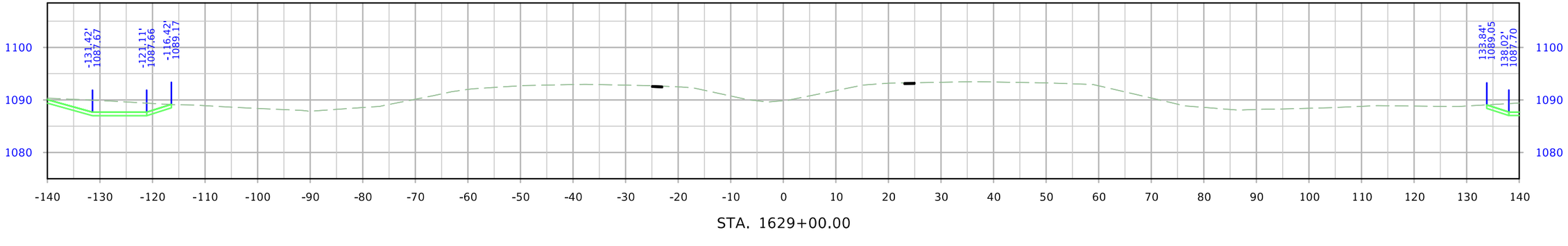
# I-29




STA. 1630+00.00




STA. 1629+50.00

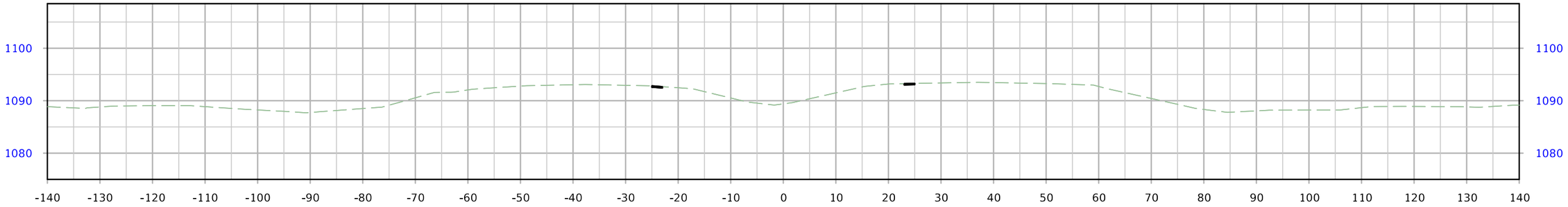



STA. 1629+00.00

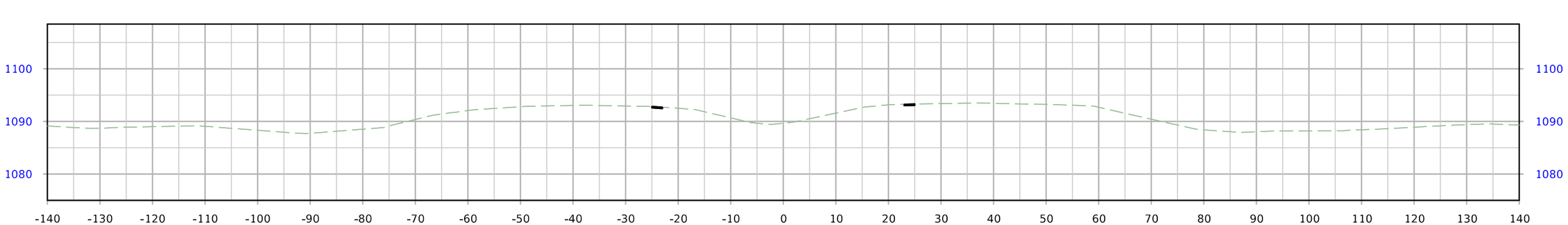
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.18 |
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9:34:26 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

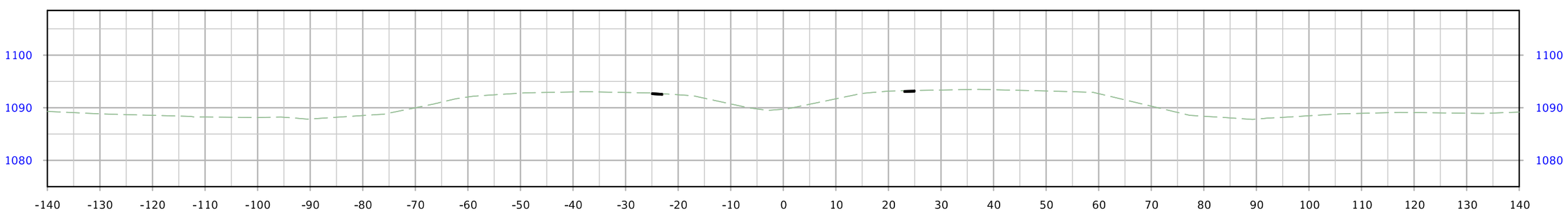
# I-29




STA. 1631+50.00




STA. 1631+00.00

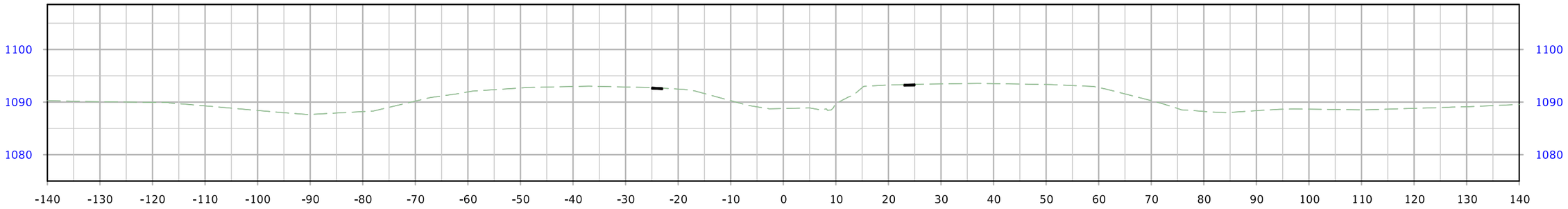



STA. 1630+50.00

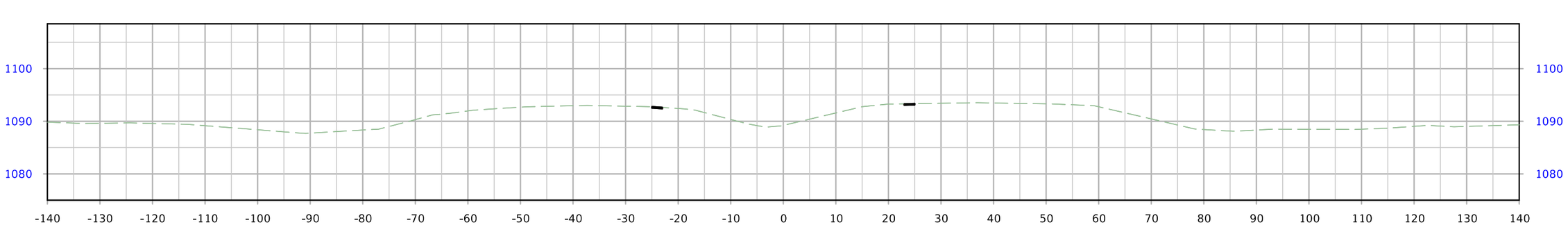
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.19 | |
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9:34:29 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

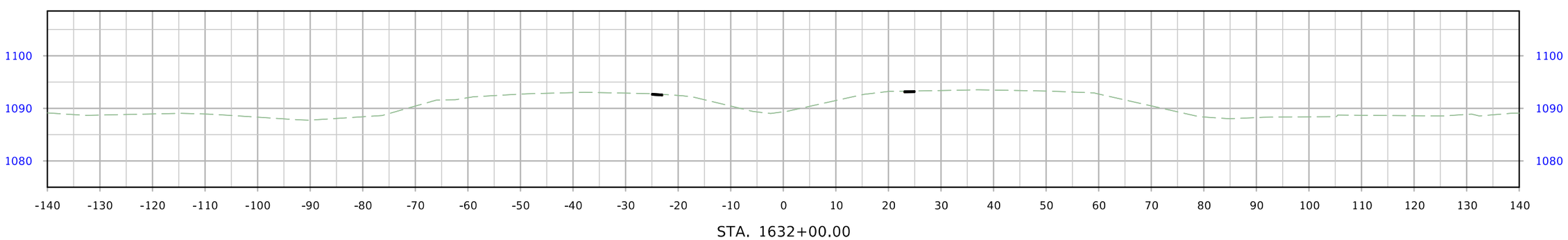
# I-29




STA. 1633+00.00




STA. 1632+50.00

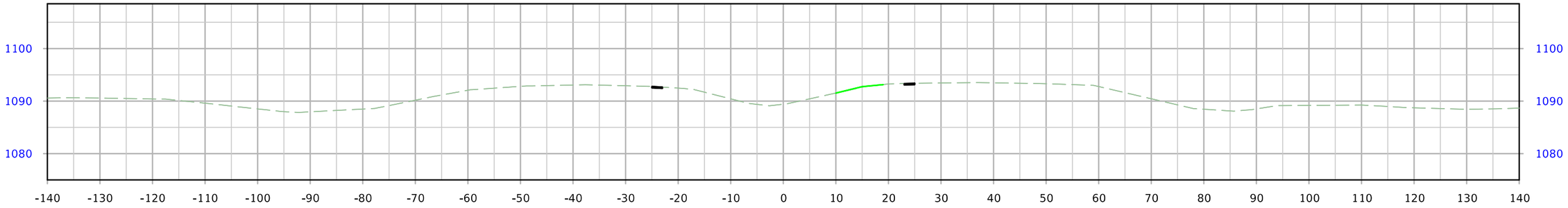



STA. 1632+00.00

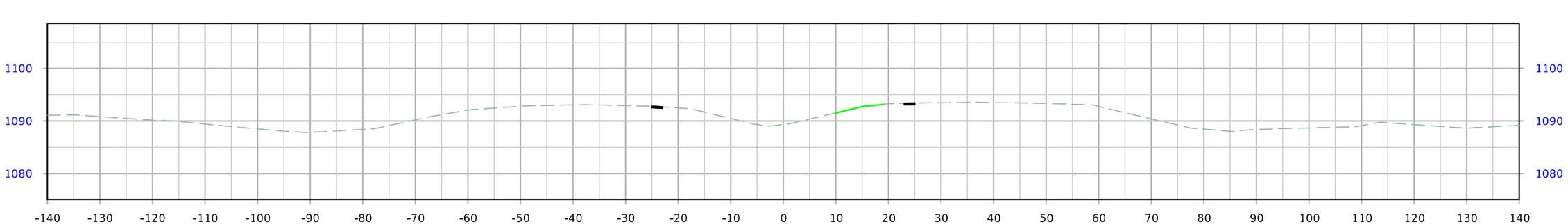
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.20 |
|---|---|---|---|---|---|

9:34:31 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

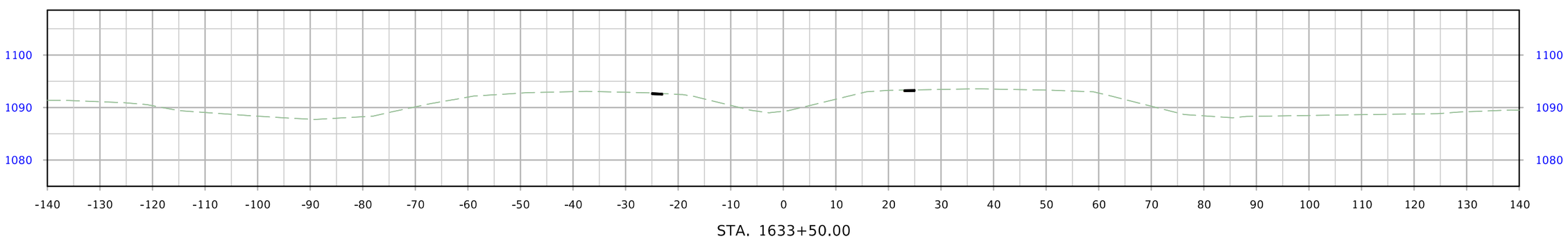
# I-29




STA. 1634+50.00




STA. 1634+00.00

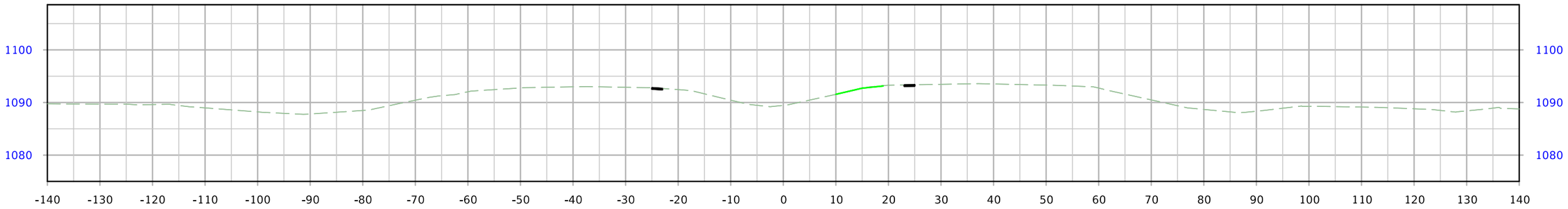



STA. 1633+50.00

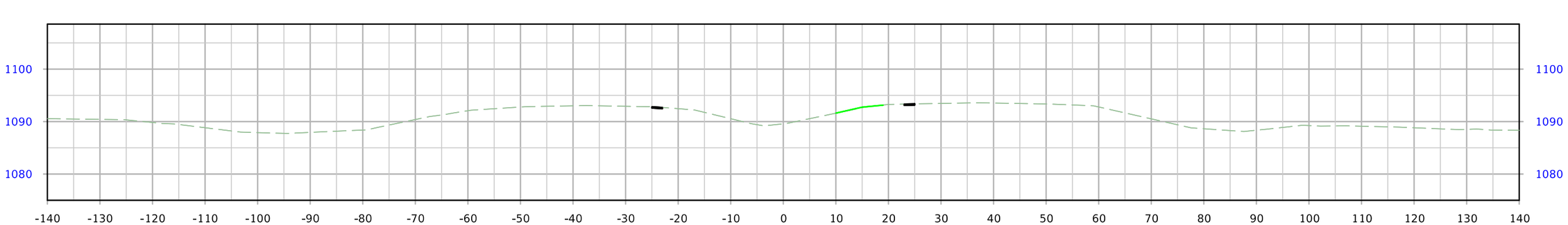
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.21 | |
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9:34:34 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

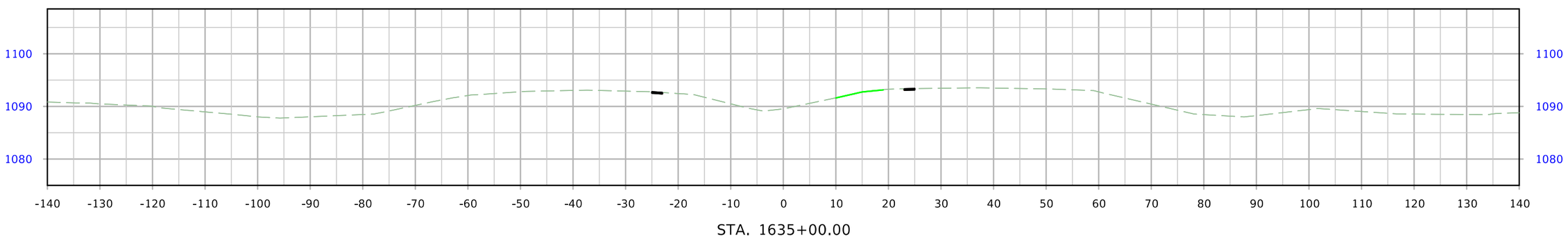
# I-29




STA. 1636+00.00




STA. 1635+50.00

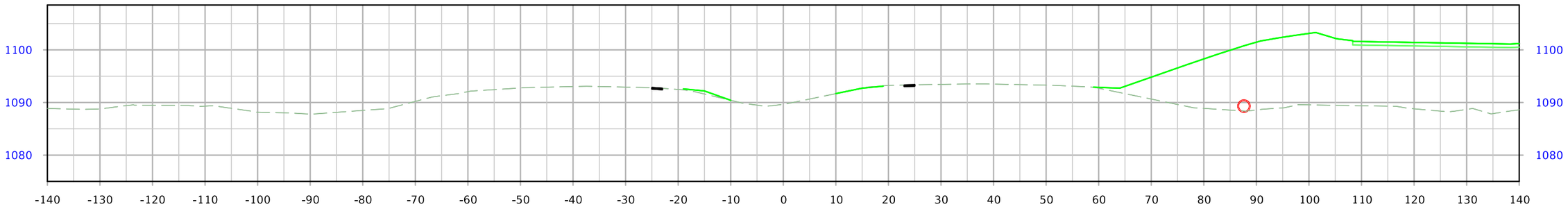



STA. 1635+00.00

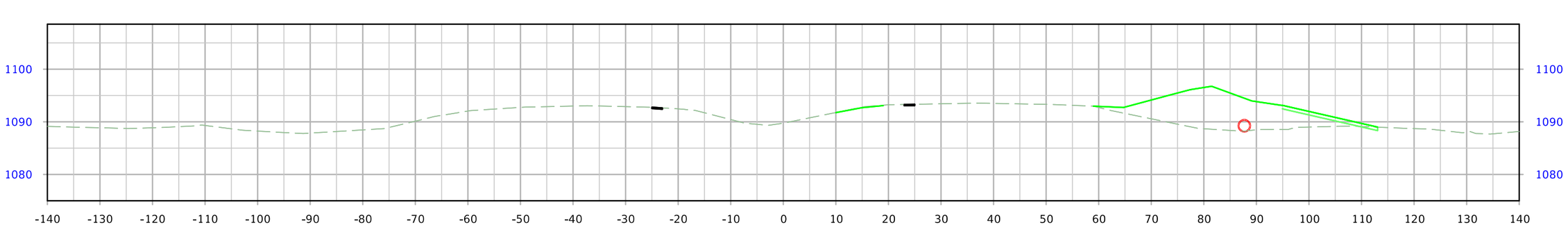
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.22 | |
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9:34:36 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

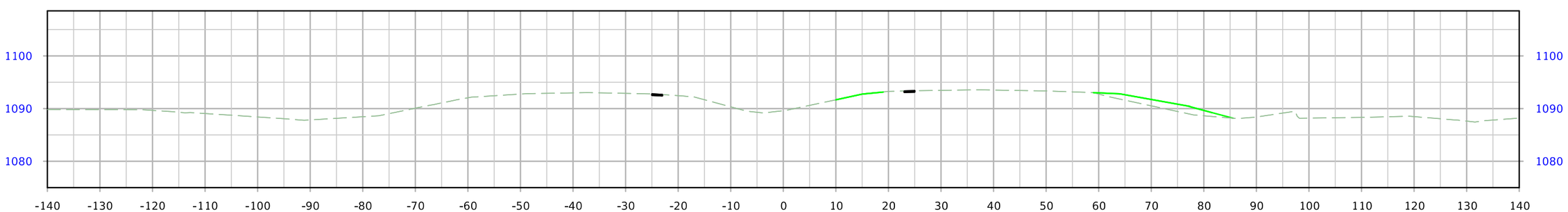
# I-29




STA. 1637+50.00



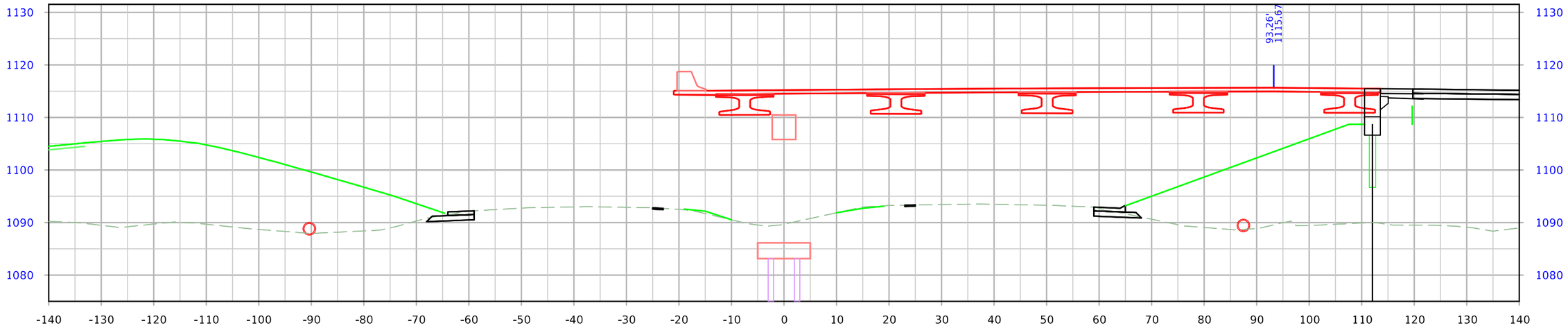

STA. 1637+00.00



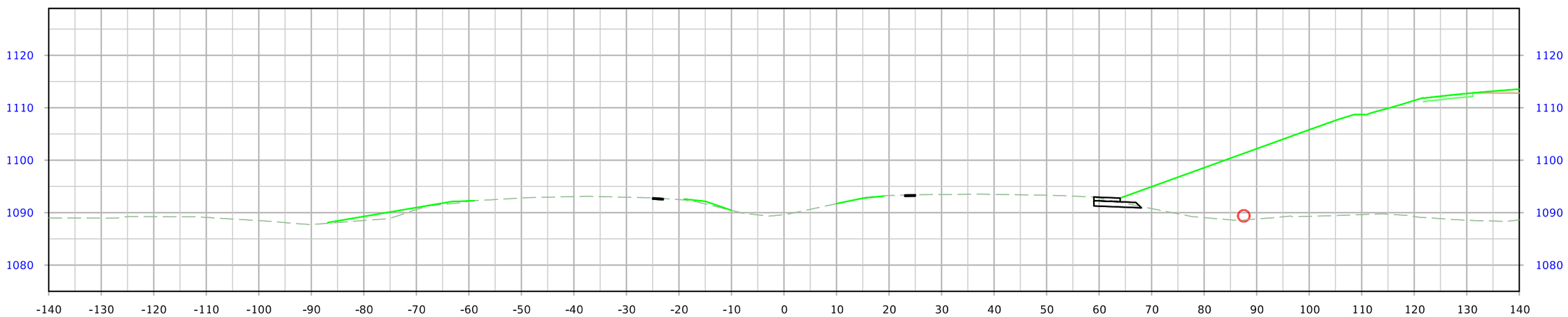

STA. 1636+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.23 |
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9:34:38 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn



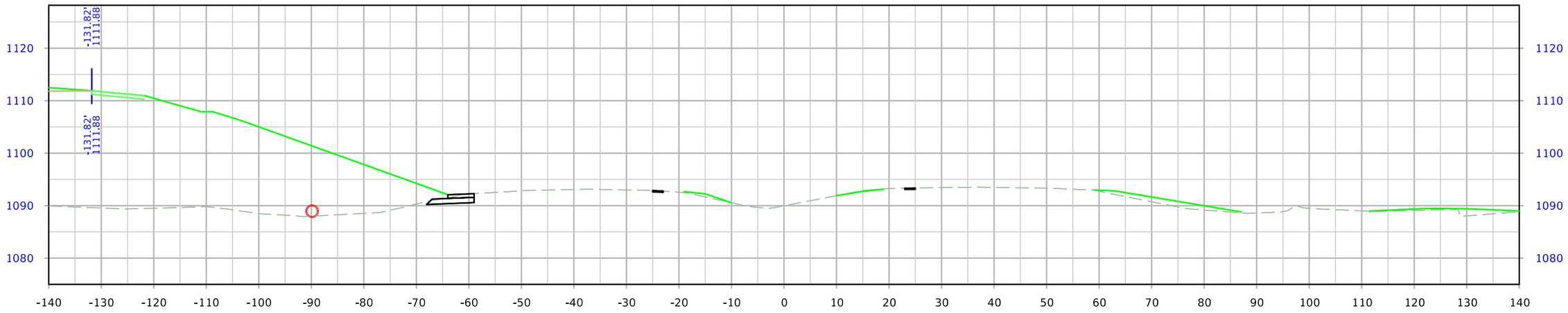

STA. 1638+50.00



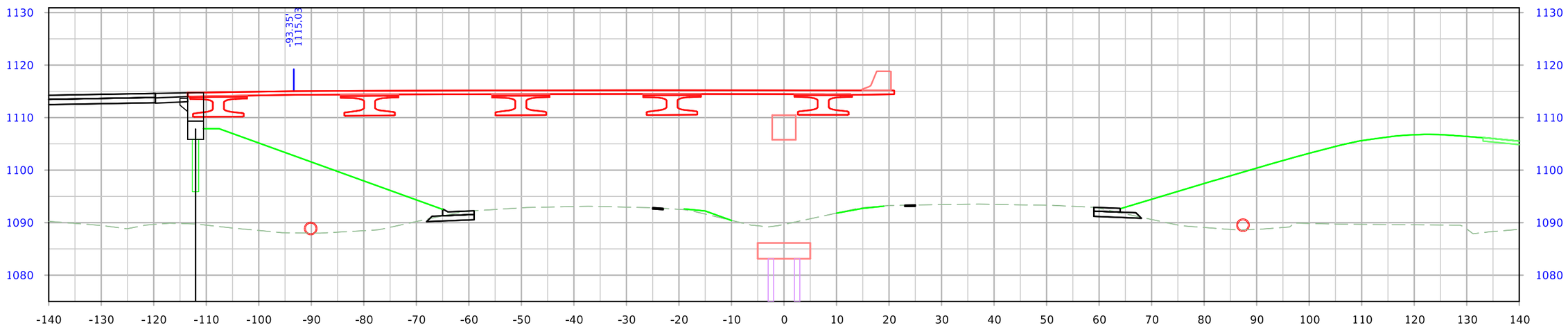

STA. 1638+00.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.24 |
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9:34:41 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn




STA. 1639+50.00

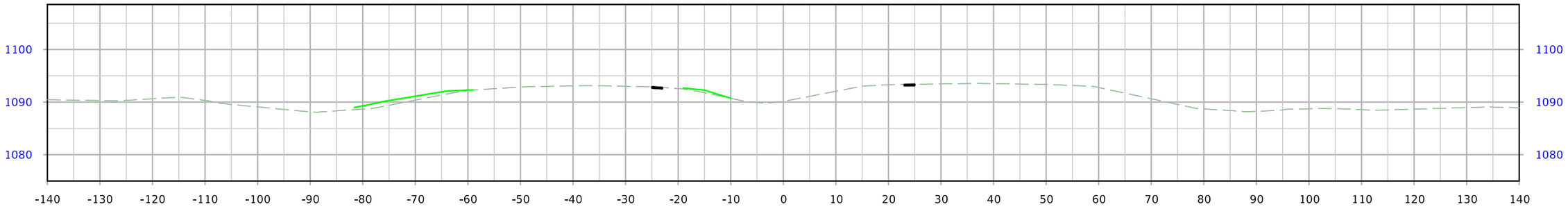



STA. 1639+00.00

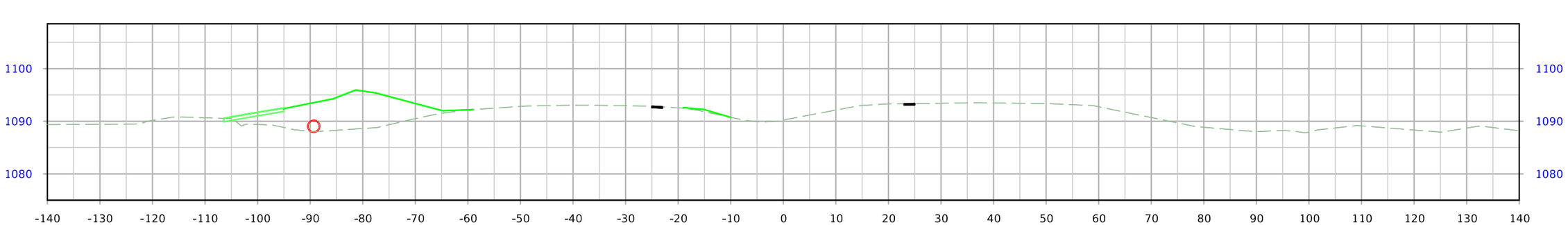
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.25 |
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9:34:43 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

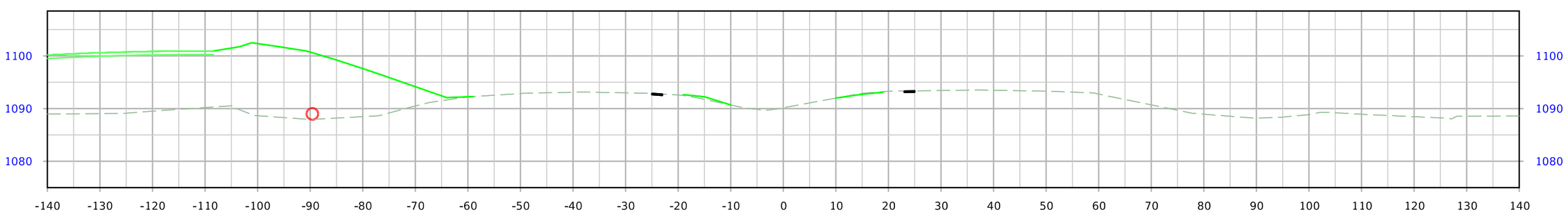
# I-29




STA. 1641+00.00




STA. 1640+50.00

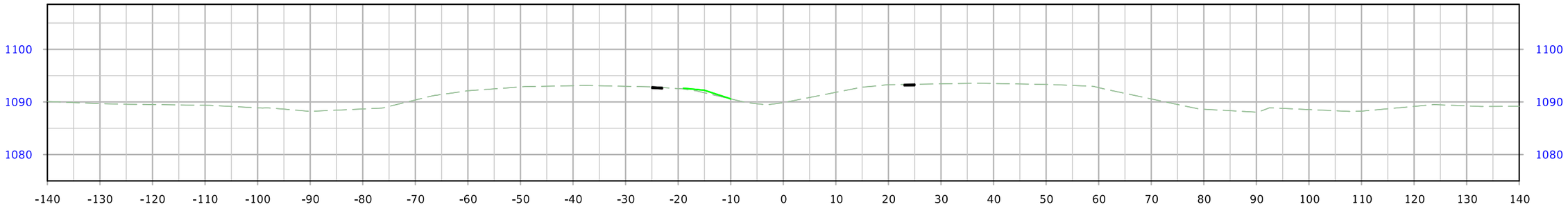



STA. 1640+00.00

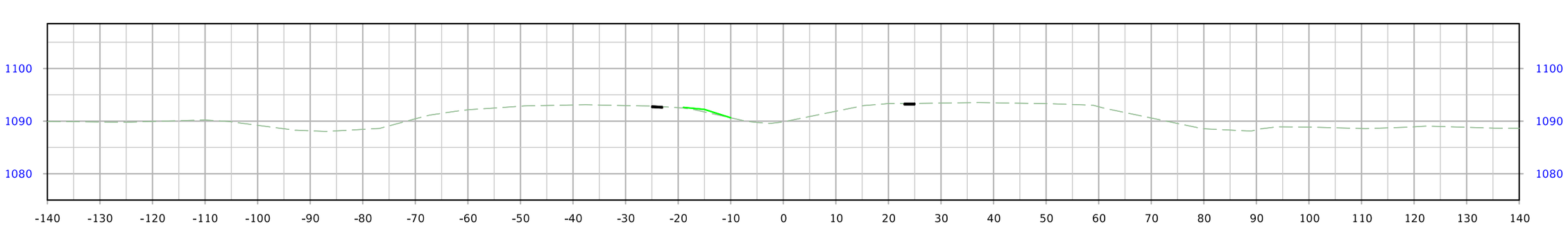
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.26 | |
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9:34:46 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

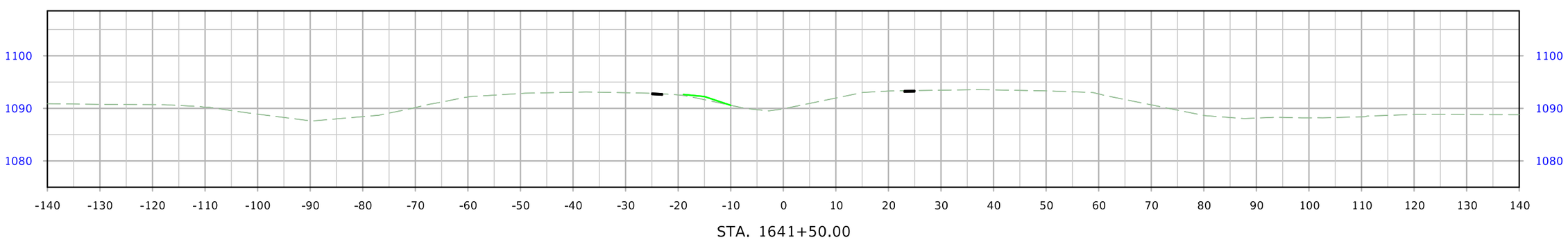
# I-29




STA. 1642+50.00




STA. 1642+00.00

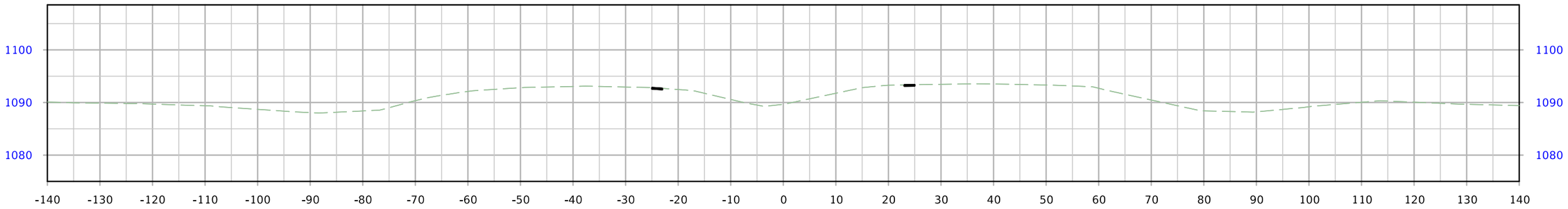



STA. 1641+50.00

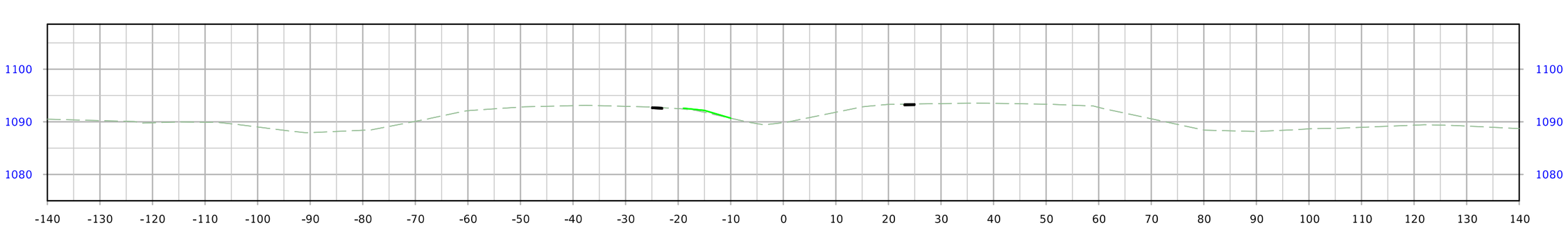
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.27 | |
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9:34:48 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

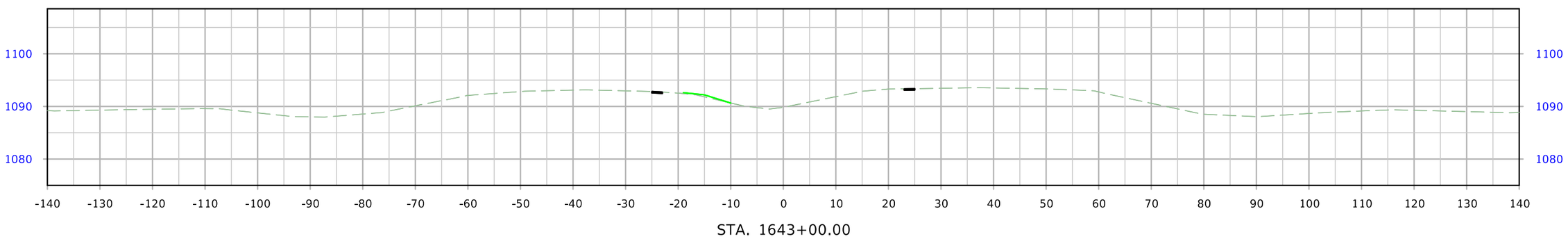
# I-29




STA. 1644+00.00




STA. 1643+50.00

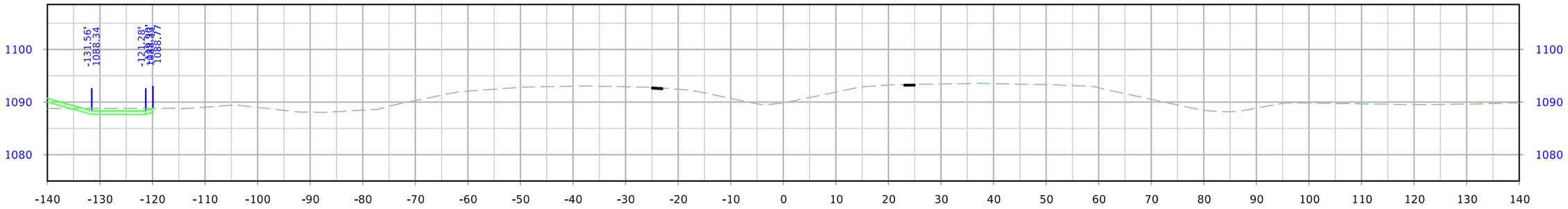



STA. 1643+00.00

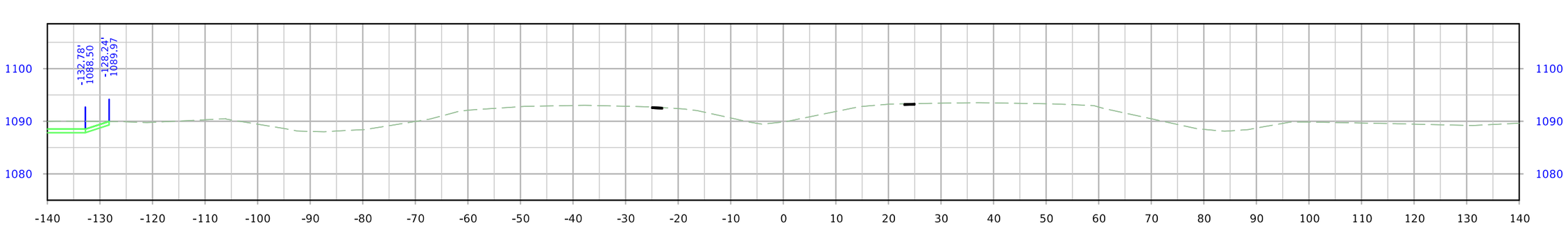
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.28 | |
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9:34:51 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

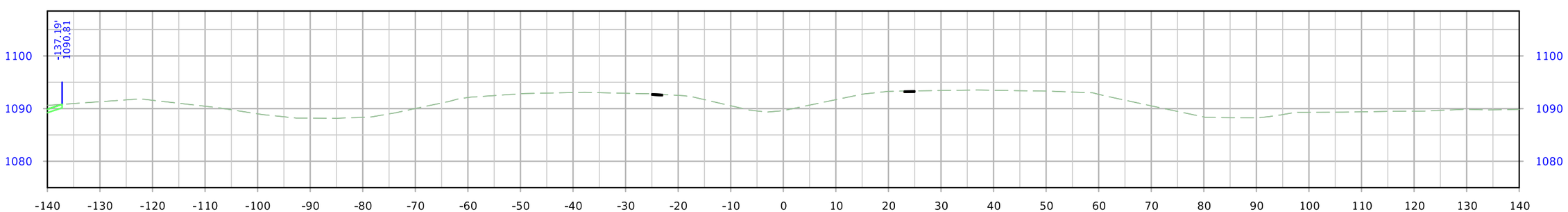
# I-29




STA. 1645+50.00




STA. 1645+00.00

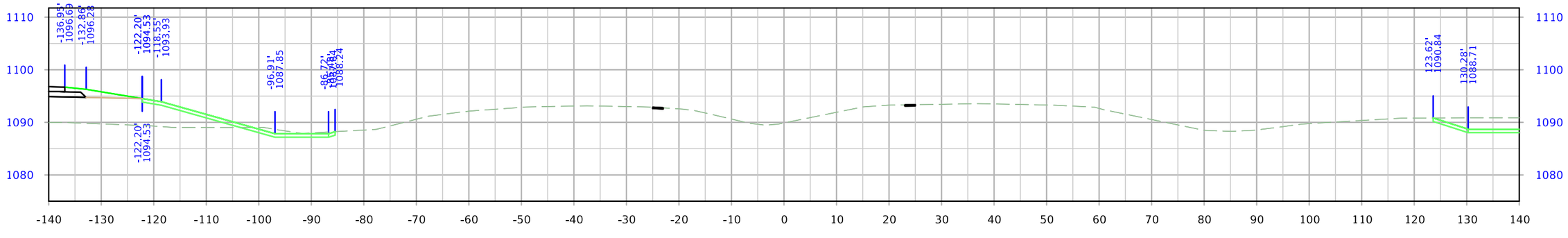



STA. 1644+50.00

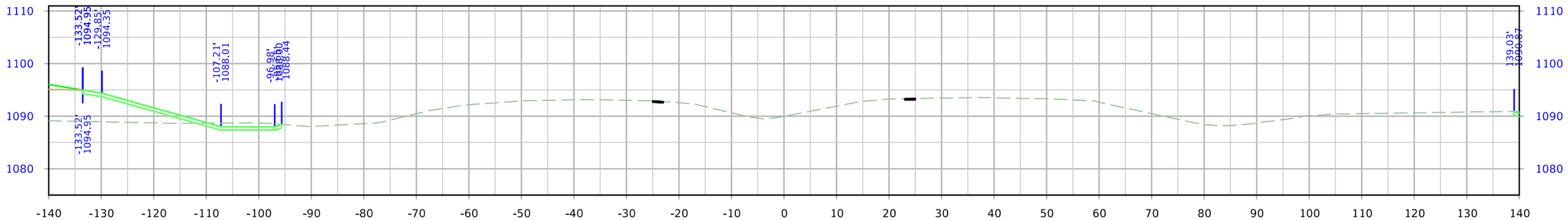
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.29 | |
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9:34:53 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

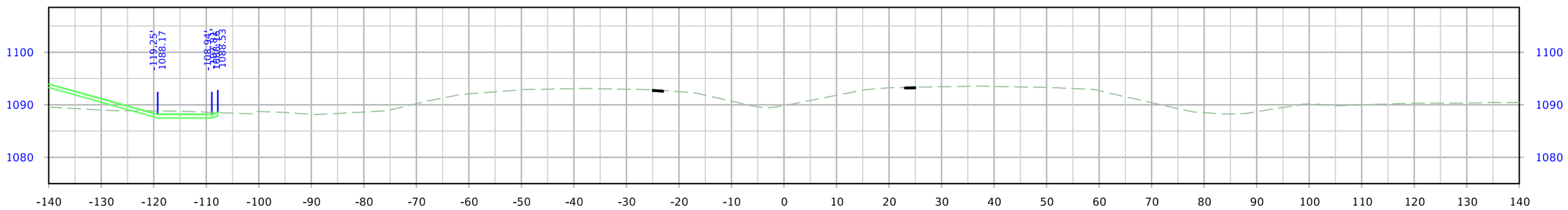
# I-29




STA. 1647+00.00




STA. 1646+50.00

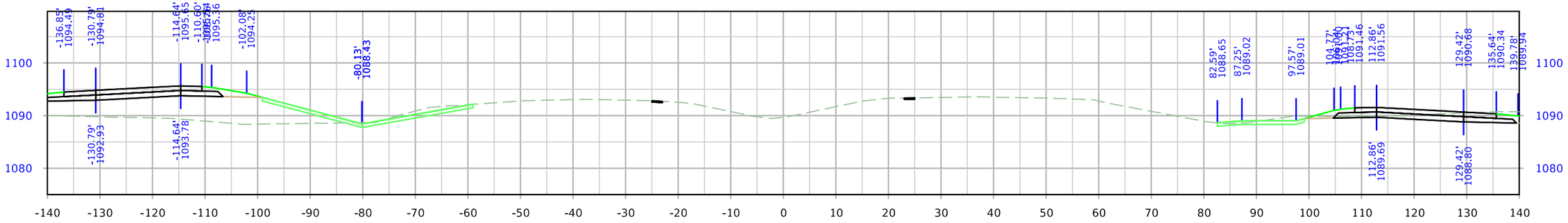



STA. 1646+00.00

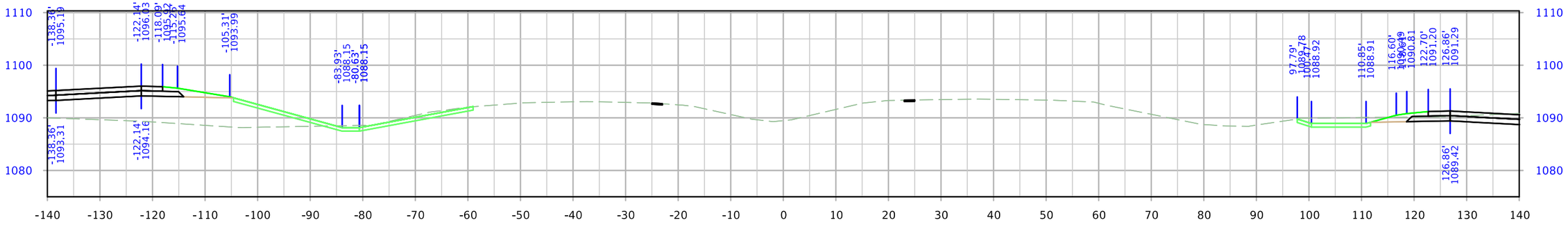
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9:34:55 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

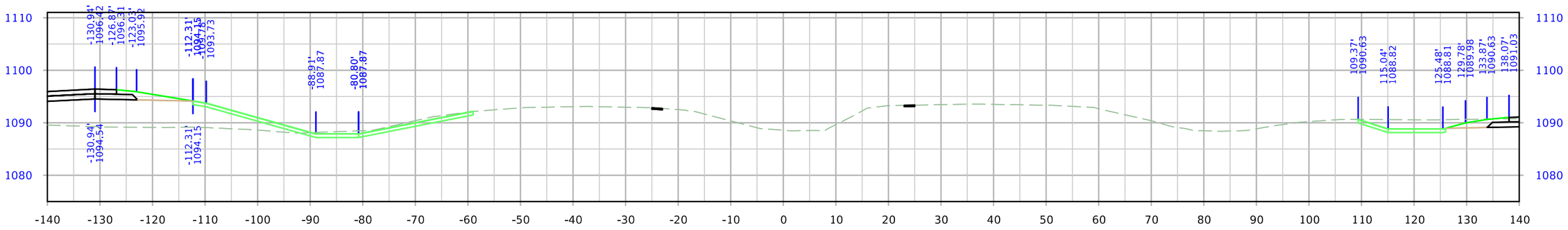
# I-29




STA. 1648+50.00




STA. 1648+00.00

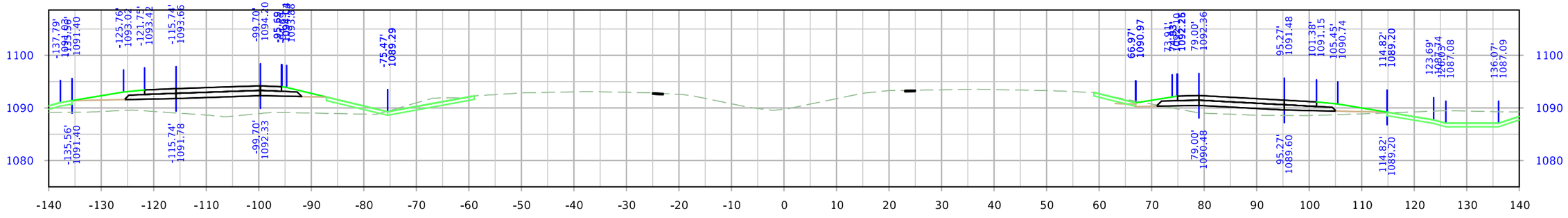



STA. 1647+50.00

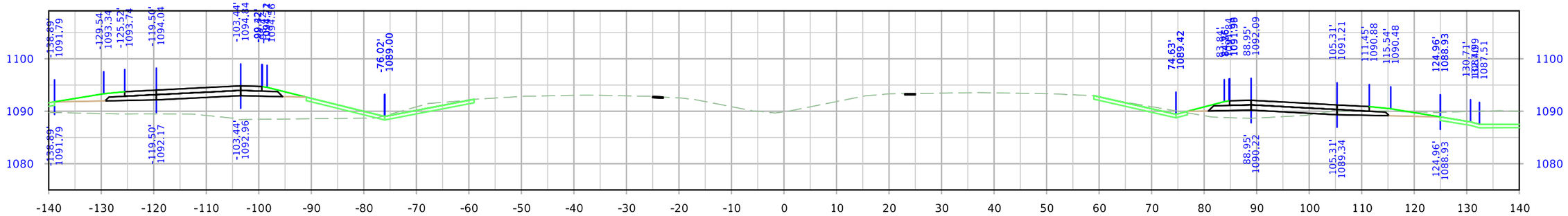
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.31 |
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9:34:58 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

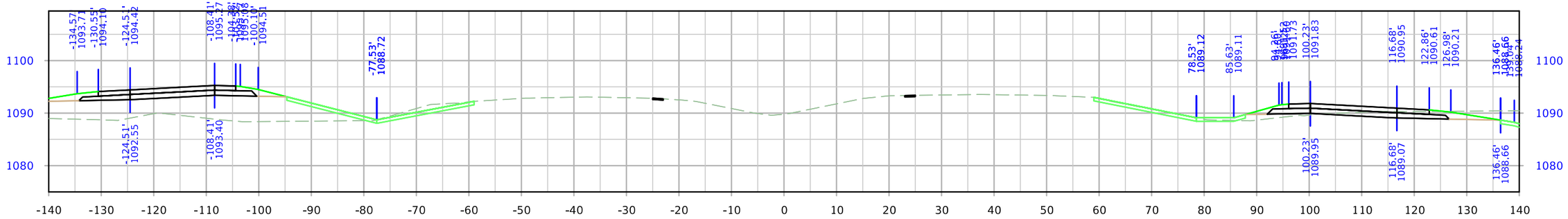
# I-29




STA. 1650+00.00




STA. 1649+50.00

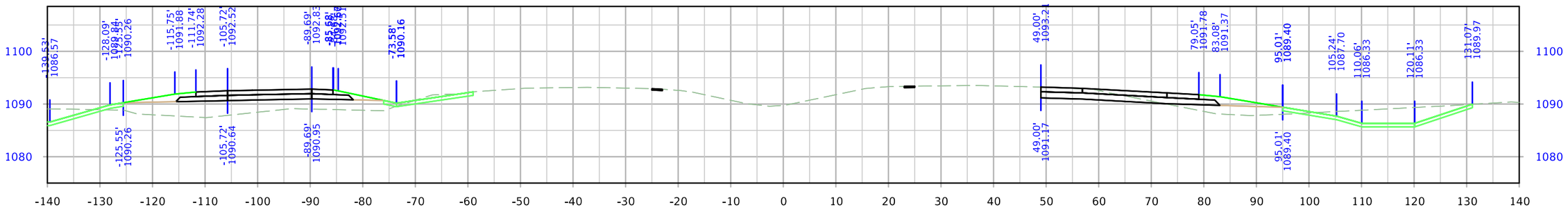



STA. 1649+00.00

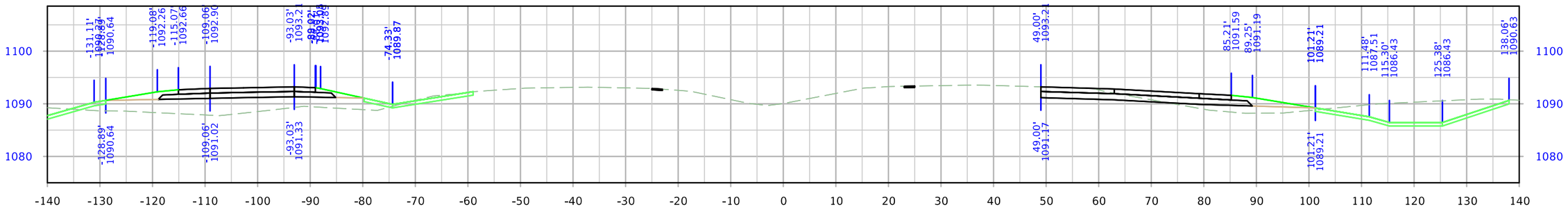
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.32 |
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9:35:00 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

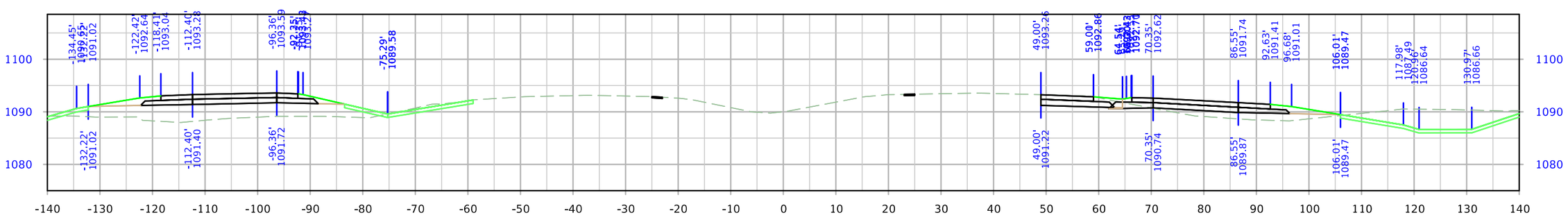
# I-29




STA. 1651+50.00




STA. 1651+00.00

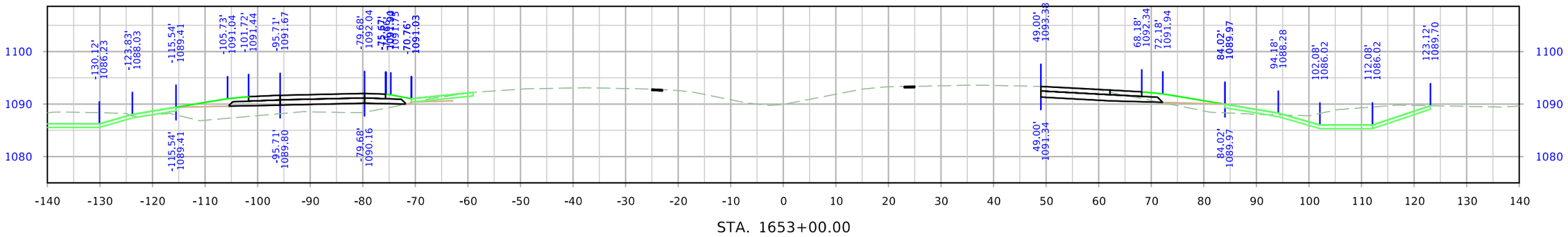



STA. 1650+50.00

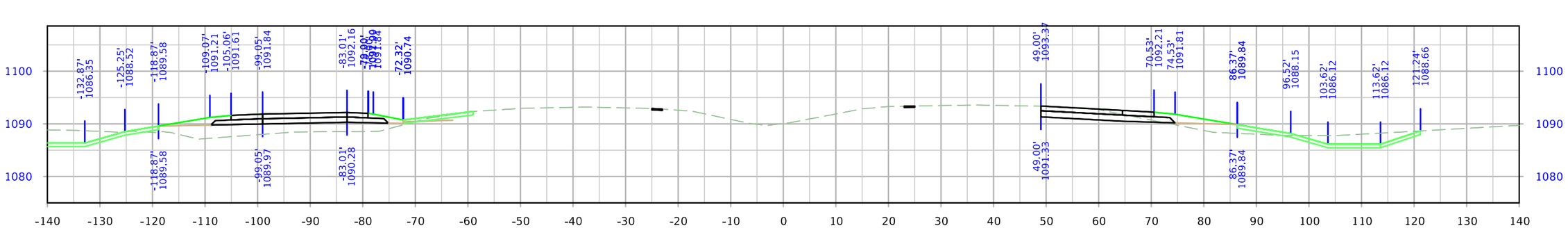
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.33 |
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9:35:03 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

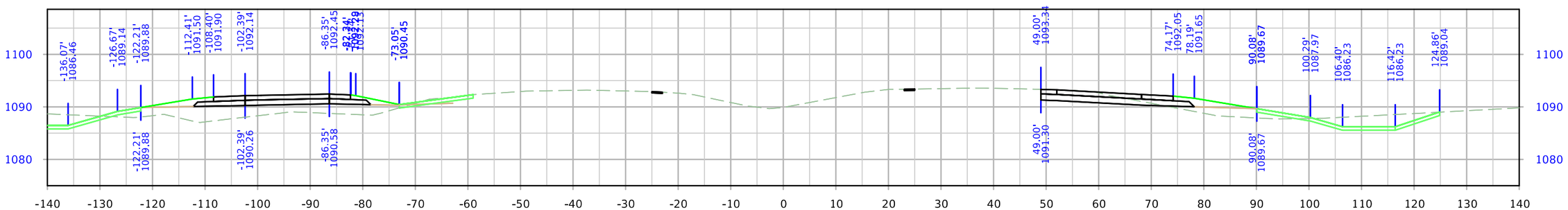
# I-29




STA. 1653+00.00




STA. 1652+50.00

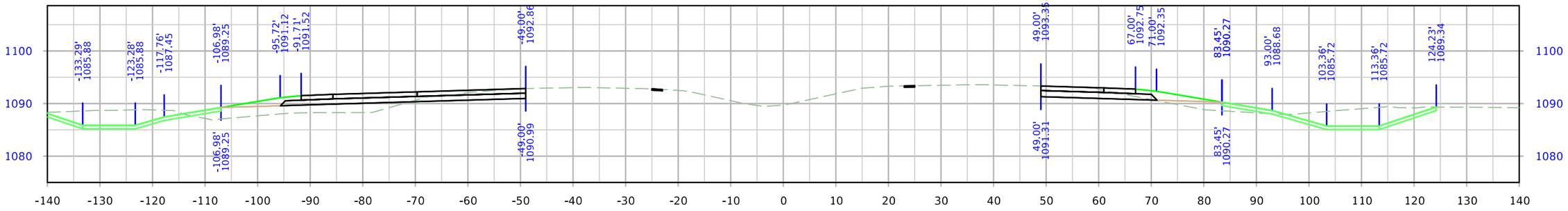



STA. 1652+00.00

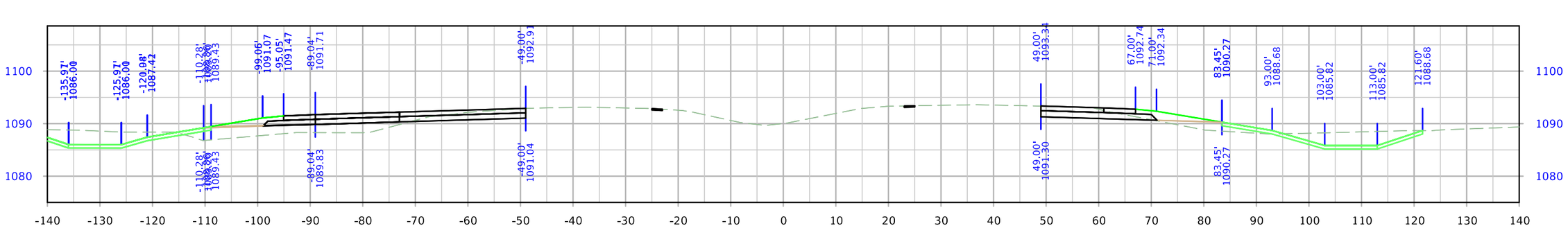
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.34 |
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9:35:05 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

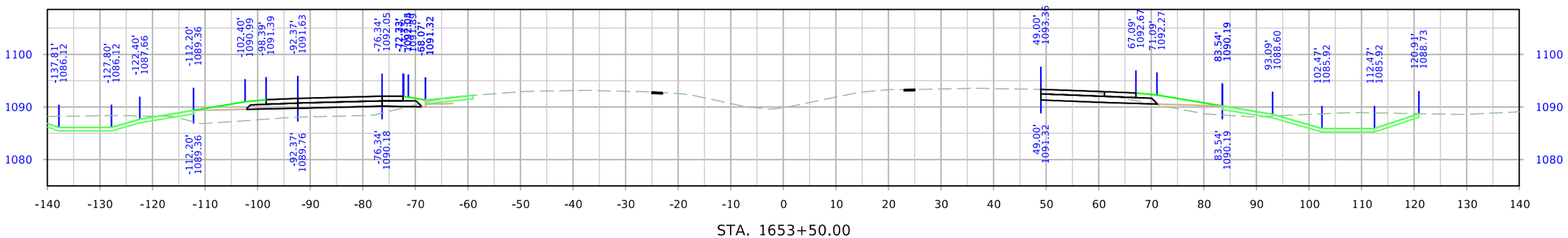
# I-29




STA. 1654+50.00



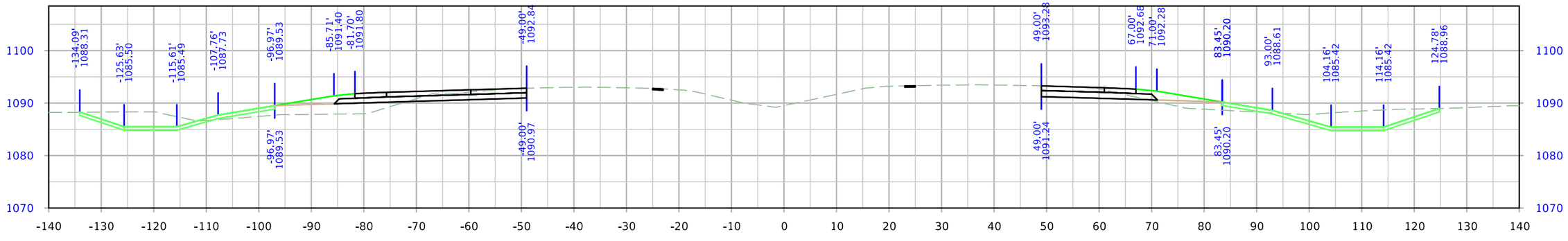

STA. 1654+00.00



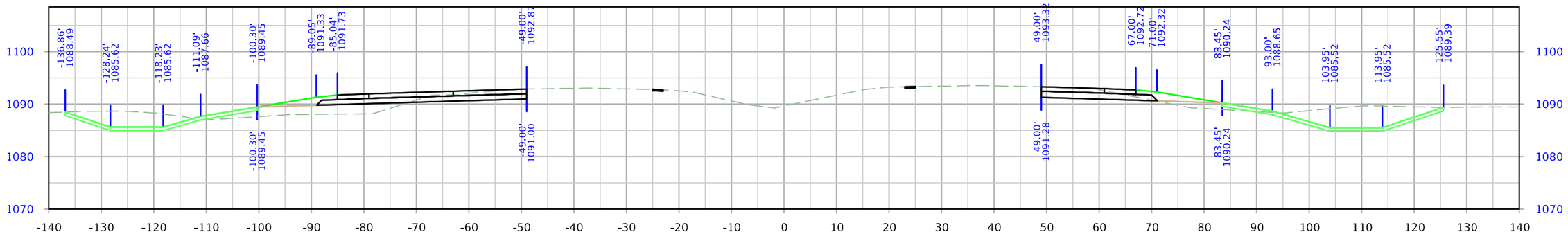

STA. 1653+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.35 |
|---|---|---|---|---|---|

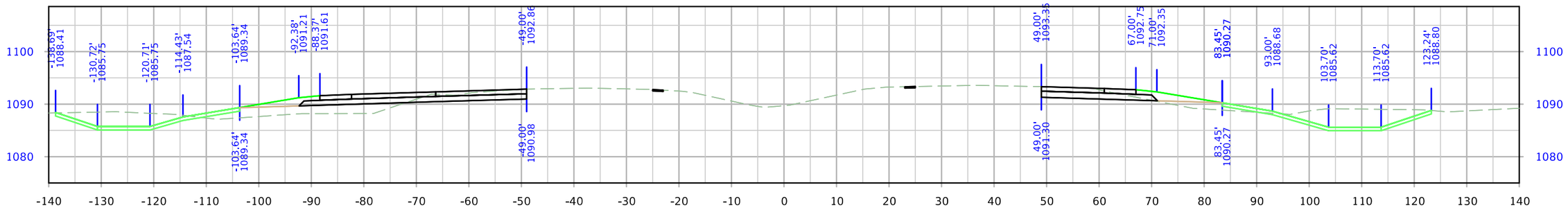
9:35:07 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn




STA. 1656+00.00




STA. 1655+50.00

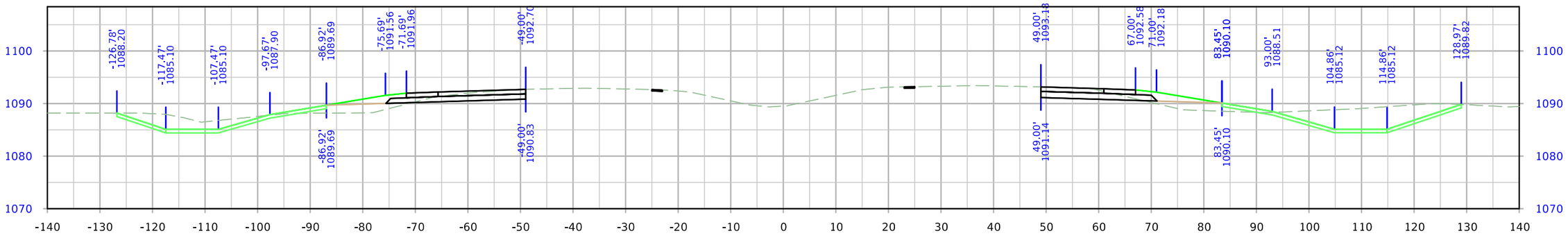



STA. 1655+00.00

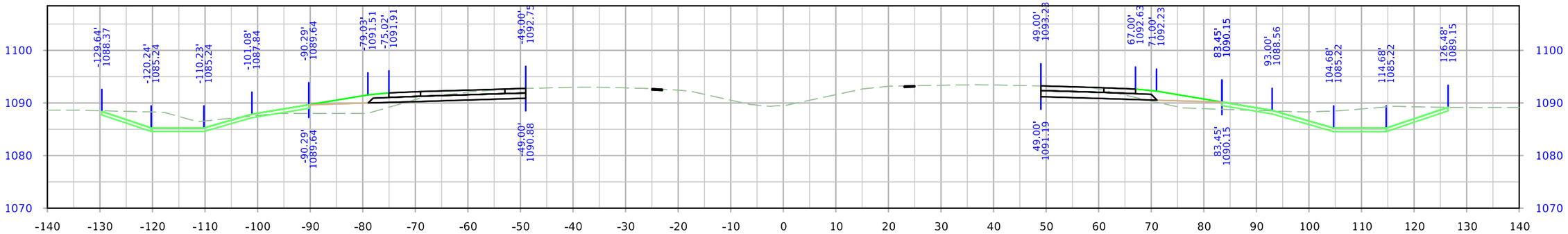
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.36 |
|---|---|---|---|---|---|

9:35:09 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

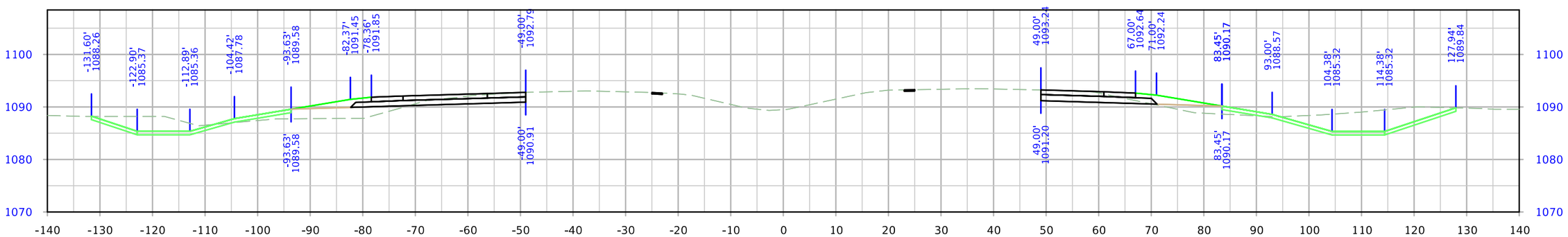
# I-29




STA. 1657+50.00




STA. 1657+00.00

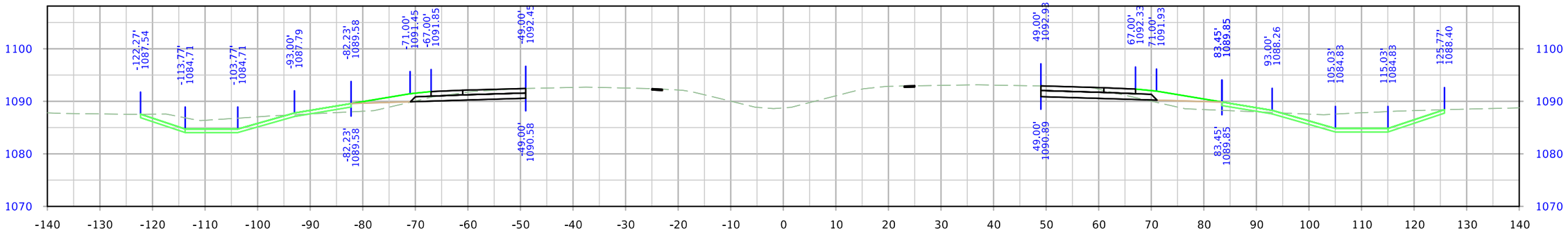



STA. 1656+50.00

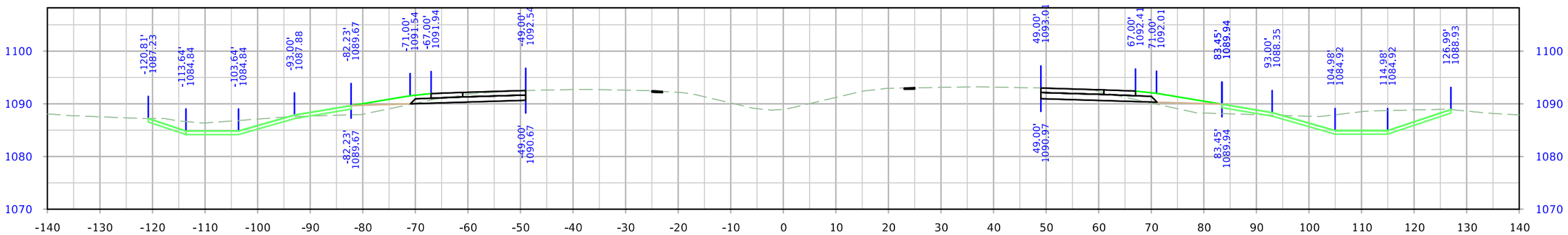
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.37 |
|---|---|---|---|---|---|

9:35:11 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

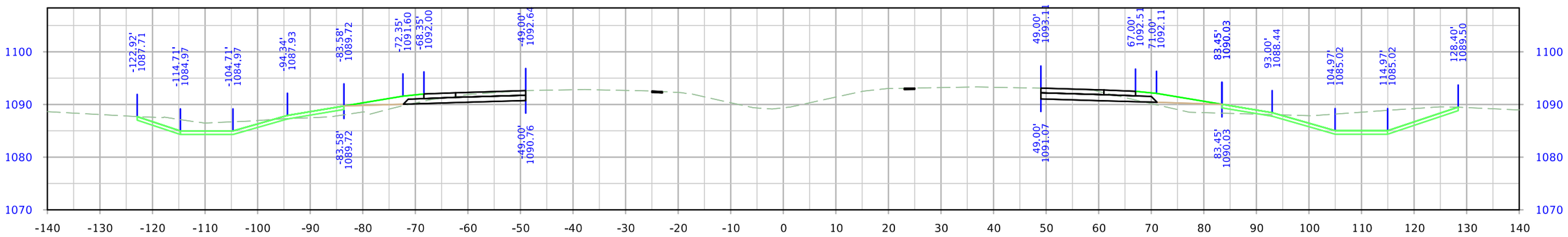
# I-29




STA. 1659+00.00




STA. 1658+50.00

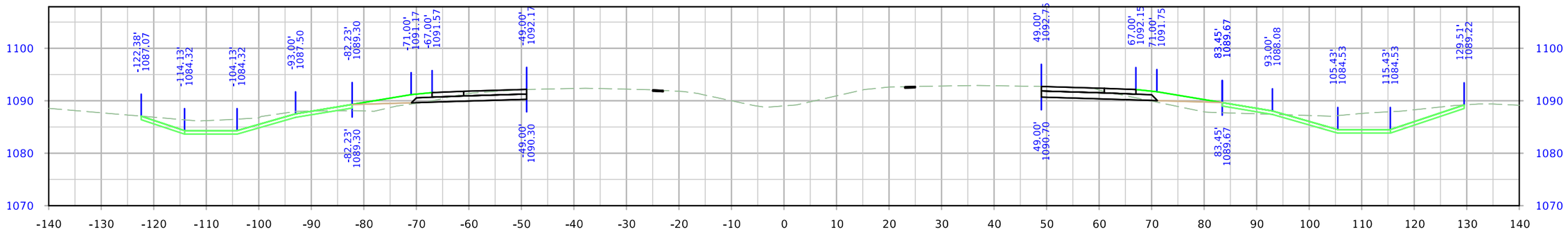



STA. 1658+00.00

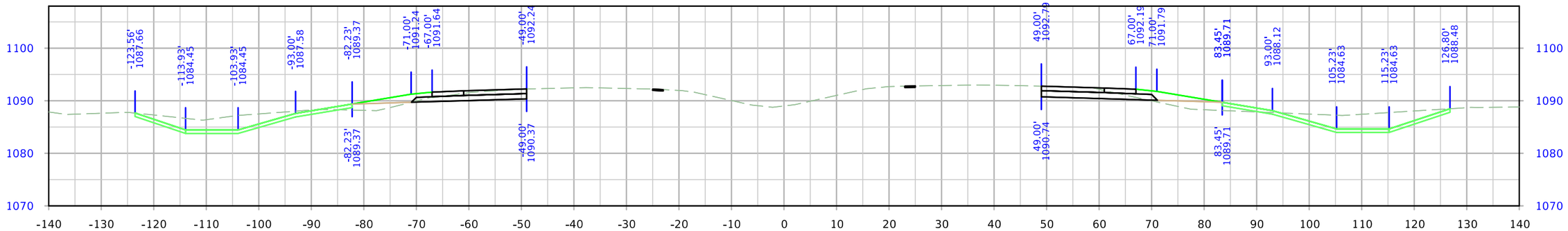
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.38 |
|---|---|---|---|---|---|

9:35:13 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

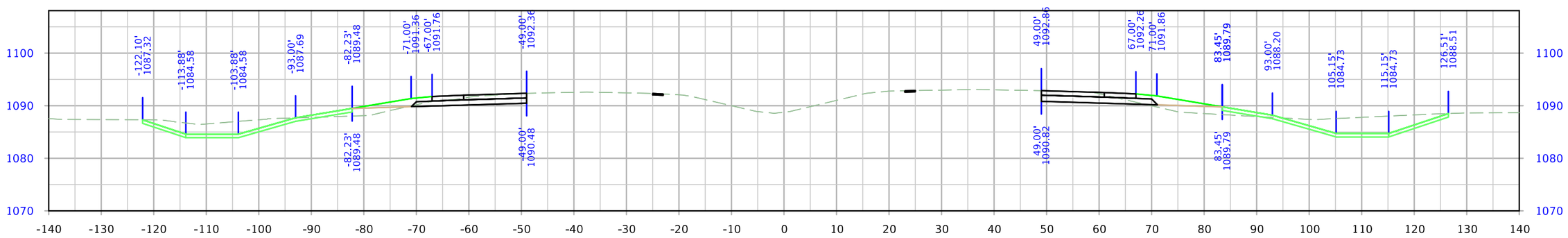
# I-29




STA. 1660+50.00




STA. 1660+00.00

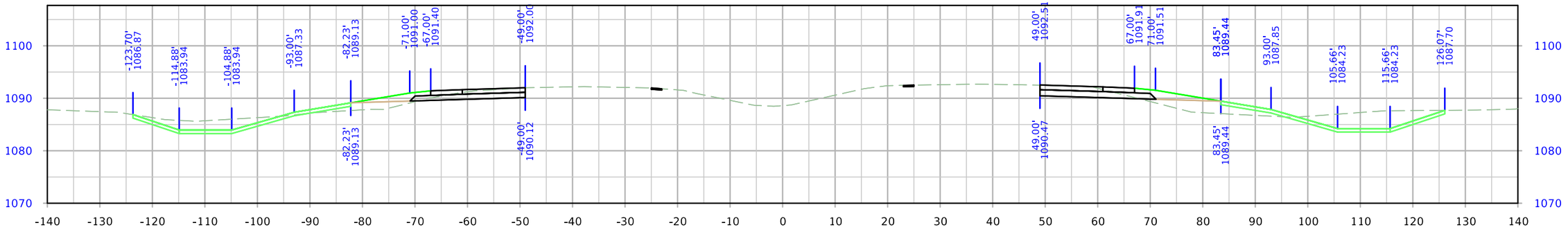



STA. 1659+50.00

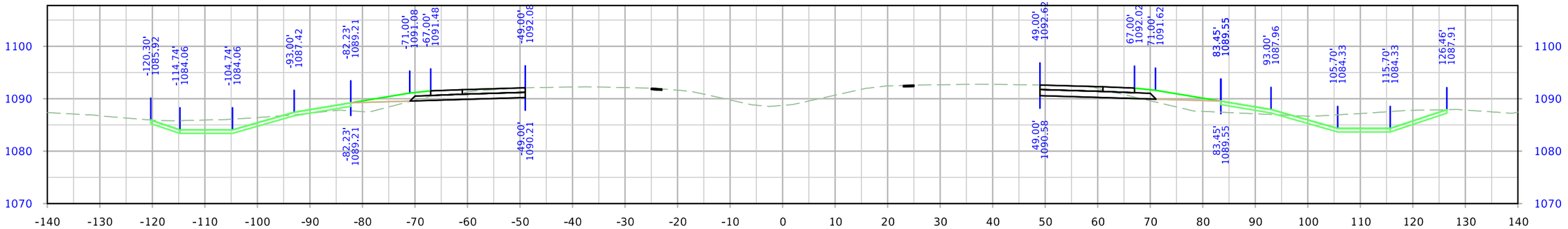
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.39 |
|---|---|---|---|---|---|

9:35:15 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

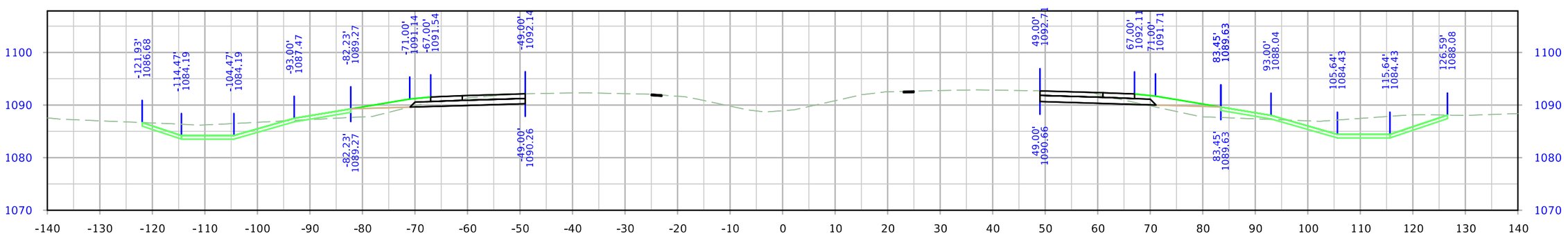
# I-29




STA. 1662+00.00




STA. 1661+50.00

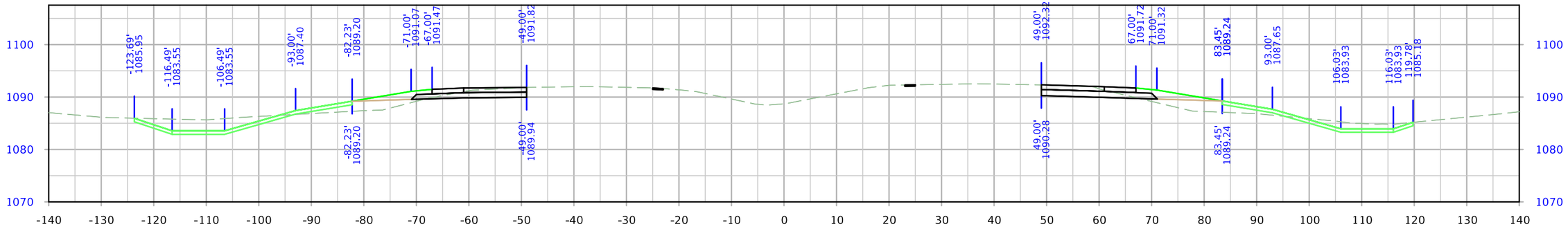



STA. 1661+00.00

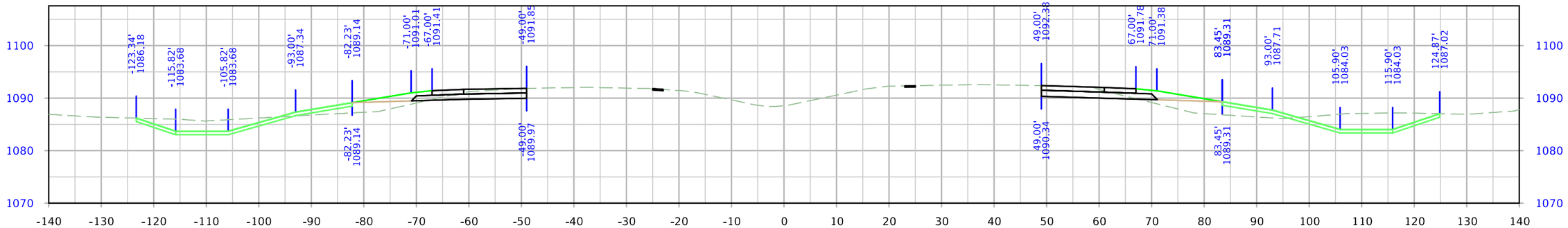
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.40 |
|---|---|---|---|---|---|

9:35:16 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

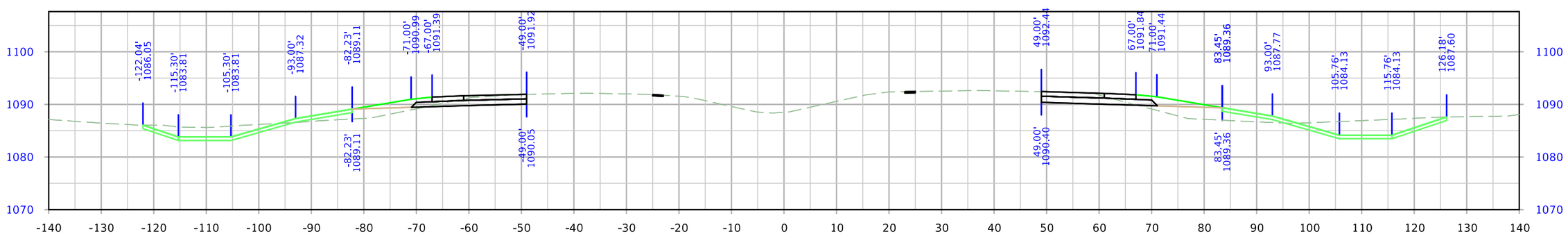
# I-29




STA. 1663+50.00




STA. 1663+00.00

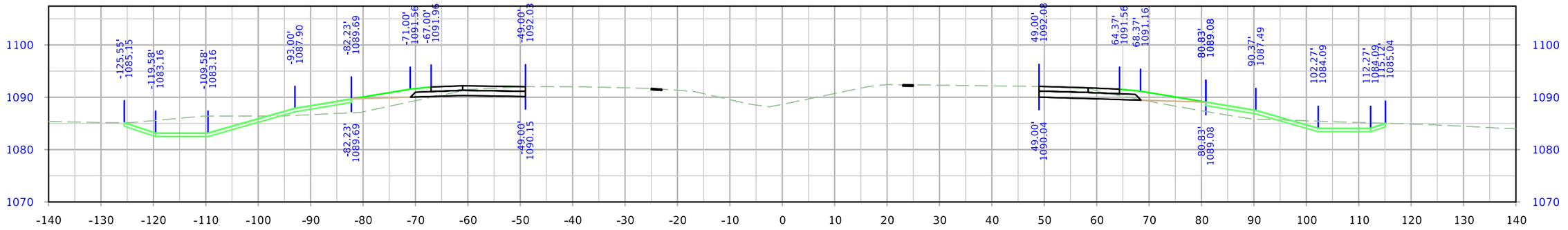



STA. 1662+50.00

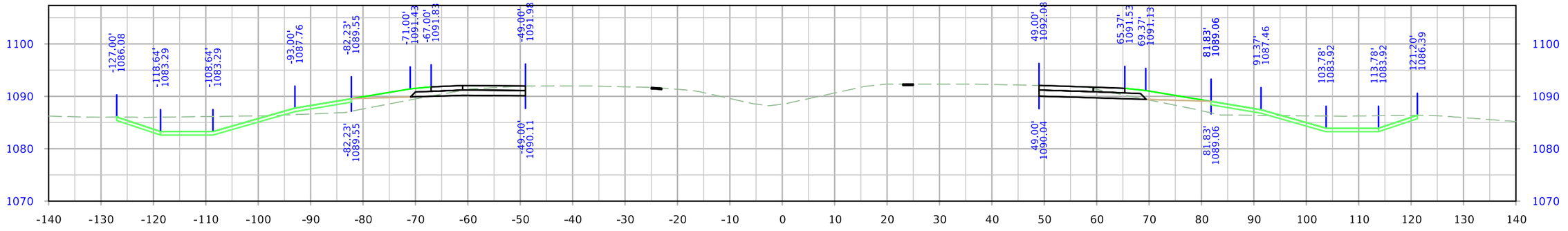
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.41 |
|---|---|---|---|---|---|

9:35:18 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

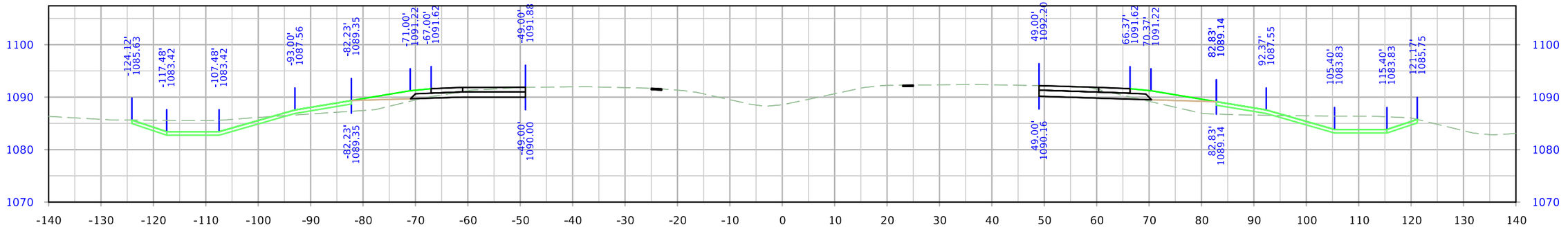
# I-29




STA. 1665+00.00




STA. 1664+50.00

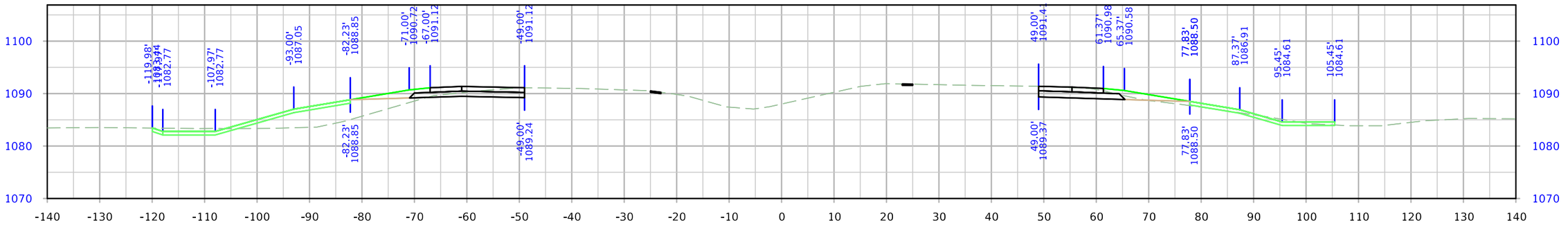



STA. 1664+00.00

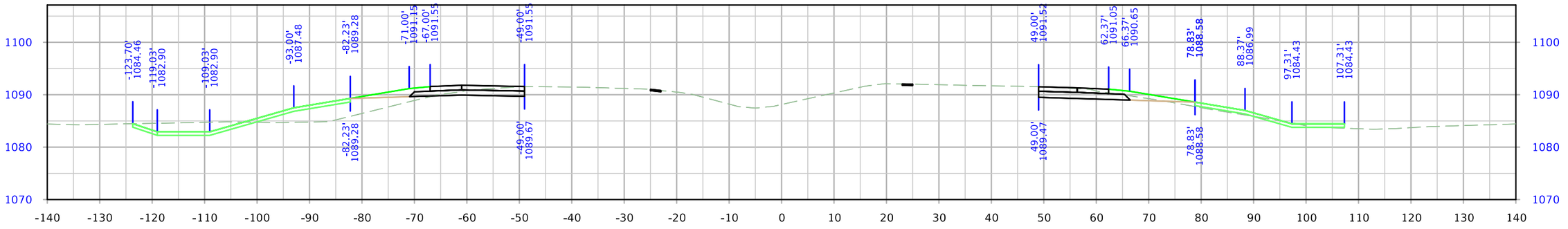
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.42 | |
|---|---|---|---|---|---|---|

9:35:20 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

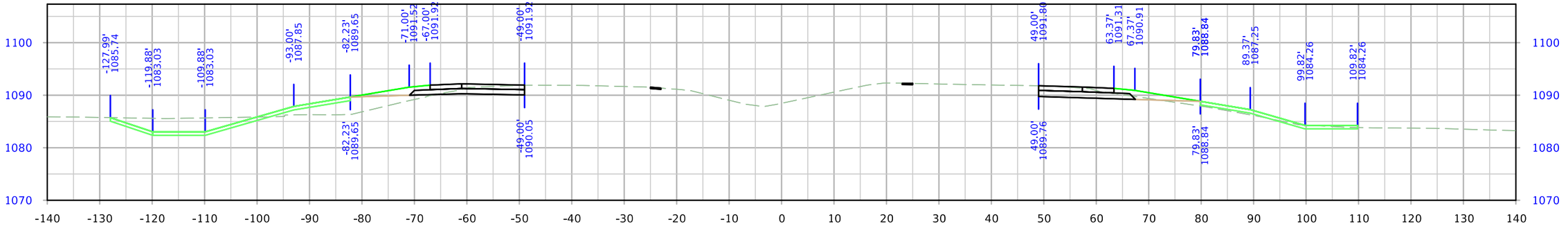
# I-29




STA. 1666+50.00



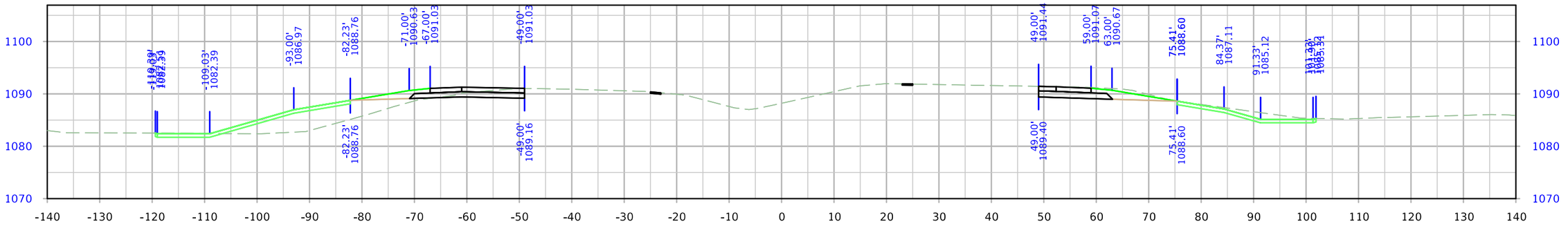

STA. 1666+00.00



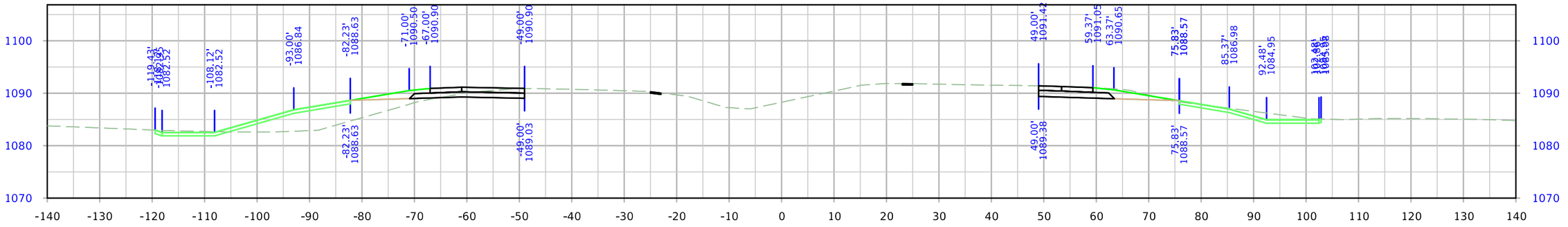

STA. 1665+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.43 | |
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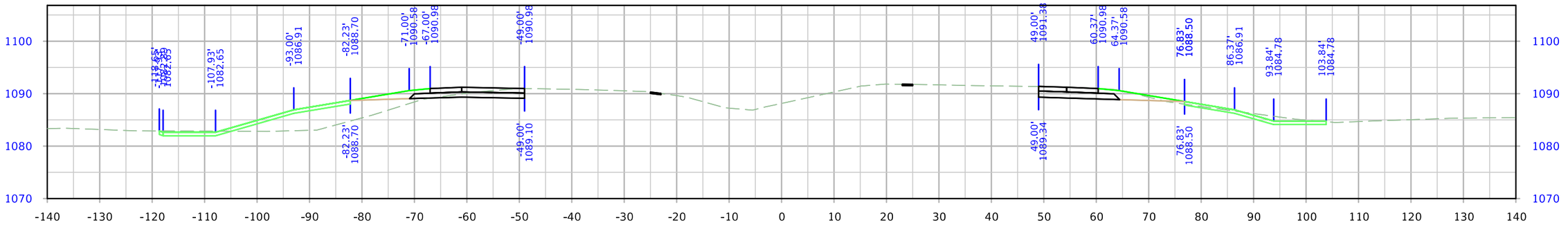
9:35:22 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn




STA. 1668+00.00




STA. 1667+50.00

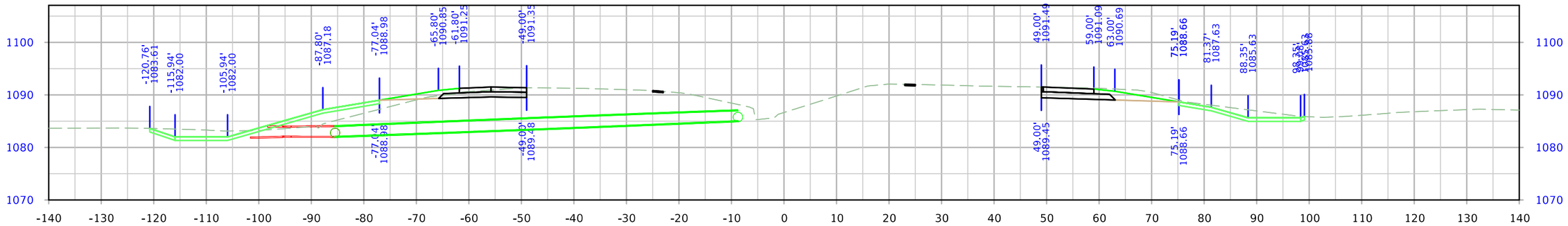



STA. 1667+00.00

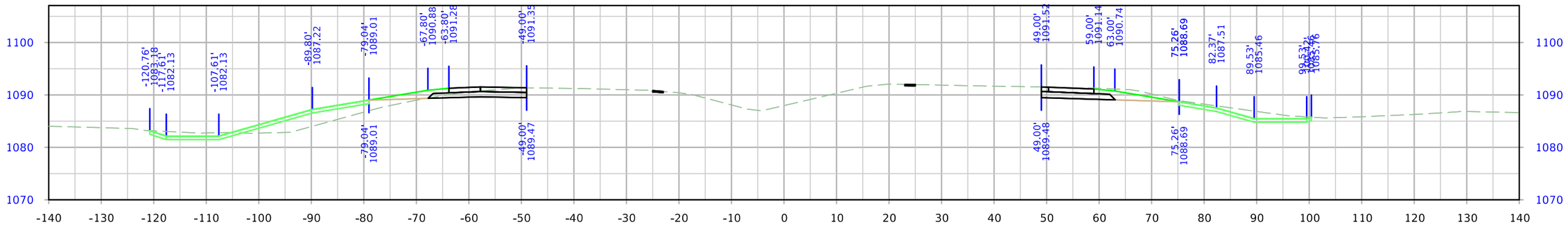
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.44 |
|---|---|---|---|---|---|

9:35:24 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

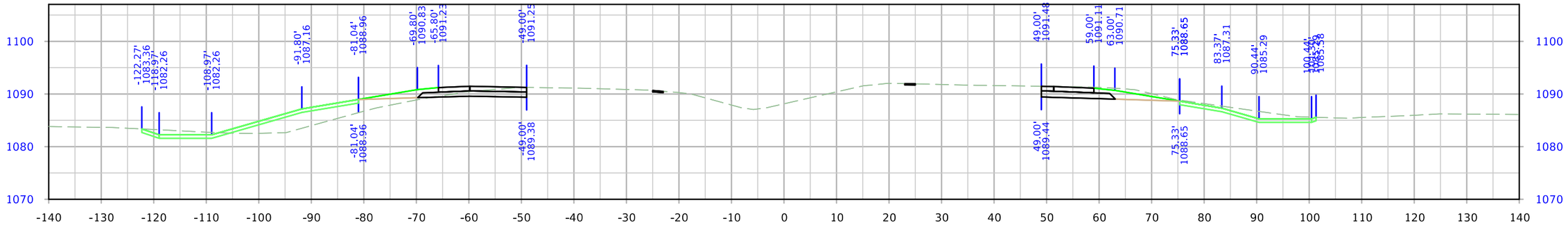
# I-29




STA. 1669+50.00



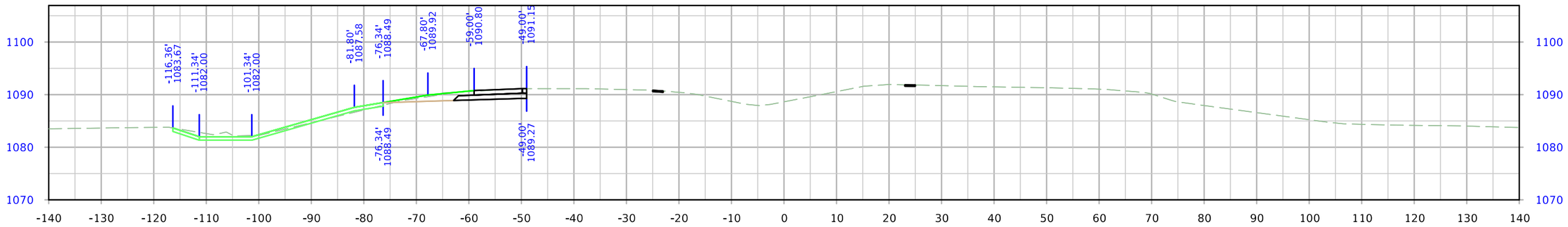

STA. 1669+00.00



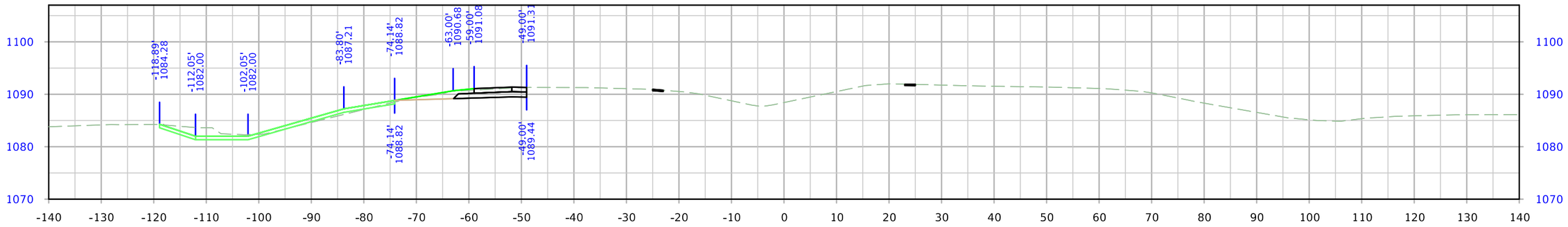

STA. 1668+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.45 |
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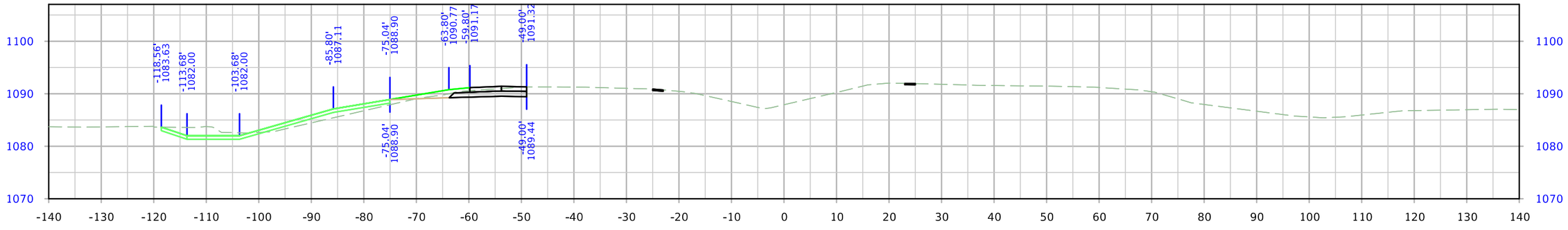
9:35:26 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn




STA. 1671+00.00




STA. 1670+50.00

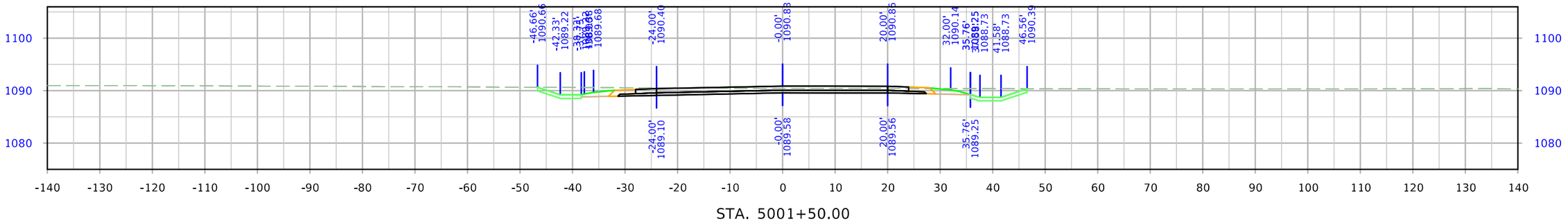



STA. 1670+00.00

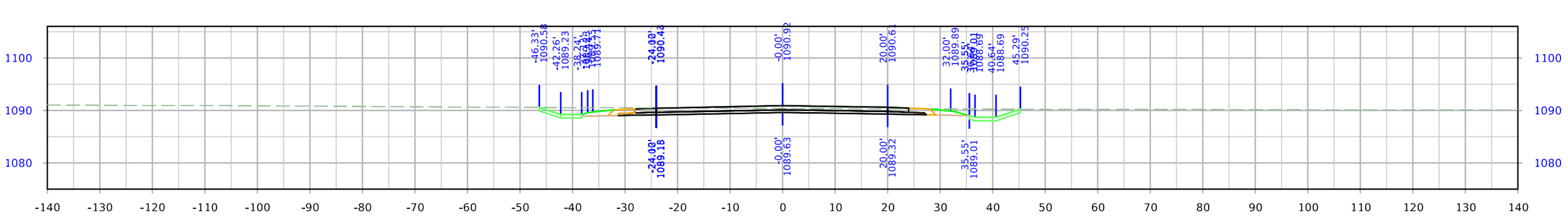
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER W.46 | |
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9:35:28 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_ML029_97029278Z04.dgn

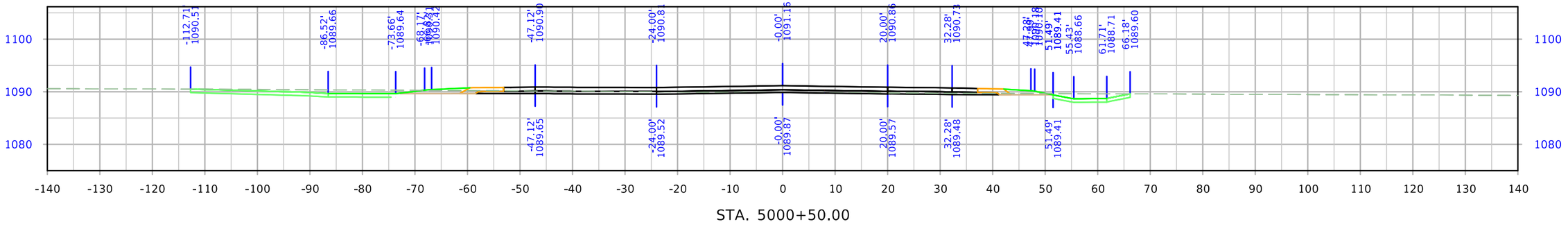
# 235th Street




STA. 5001+50.00




STA. 5001+00.00

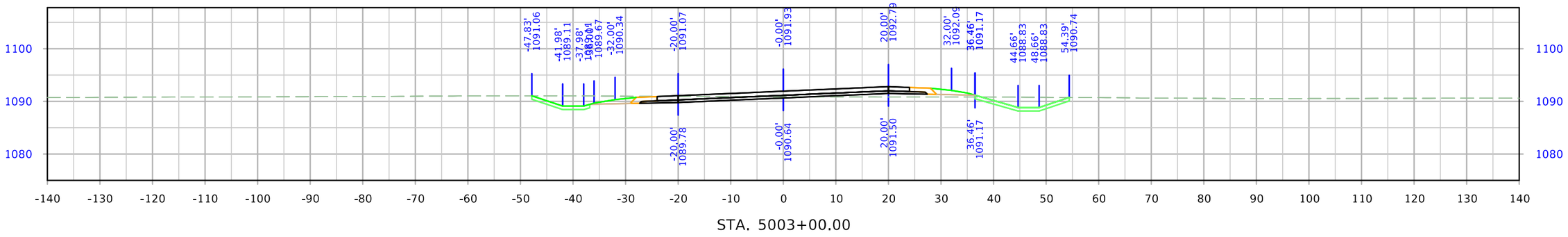



STA. 5000+50.00

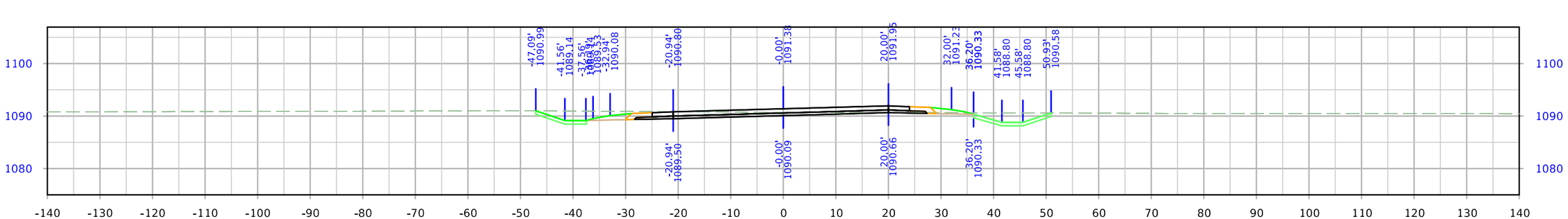
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.1 |
|---|---|---|---|---|---|

3:10:22 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

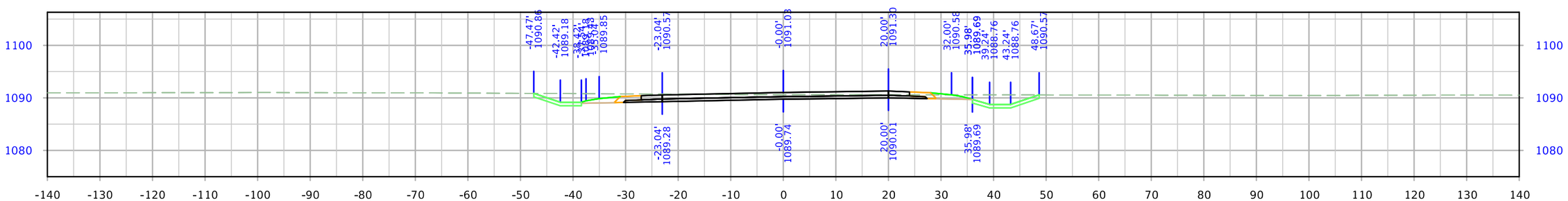
# 235th Street




STA. 5003+00.00




STA. 5002+50.00

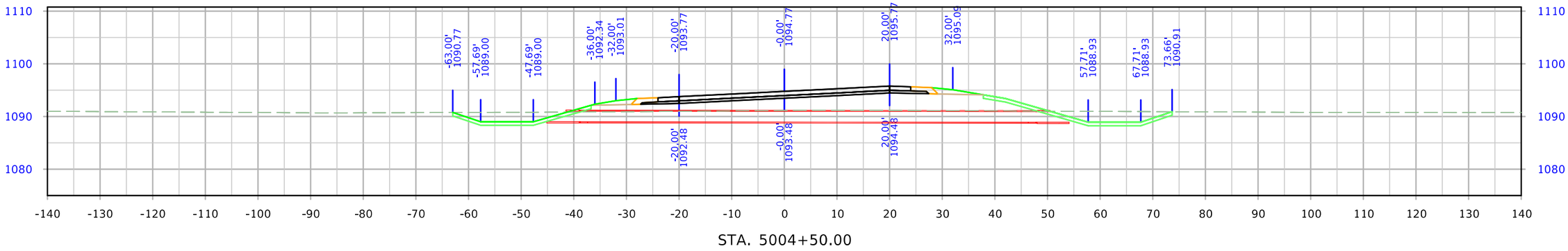



STA. 5002+00.00

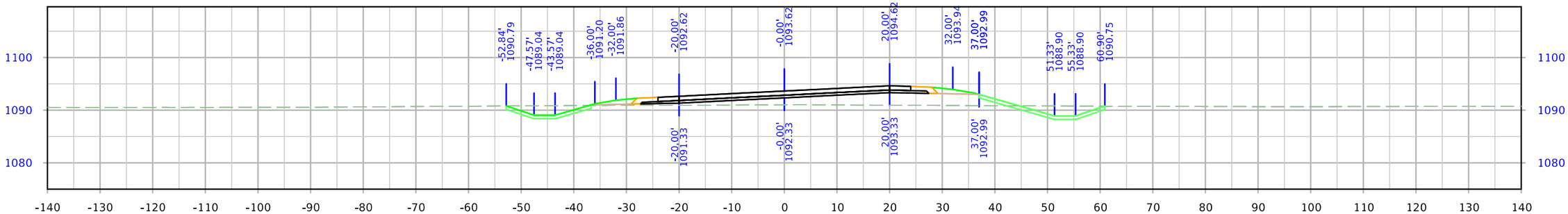
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.2 |
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3:10:24 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

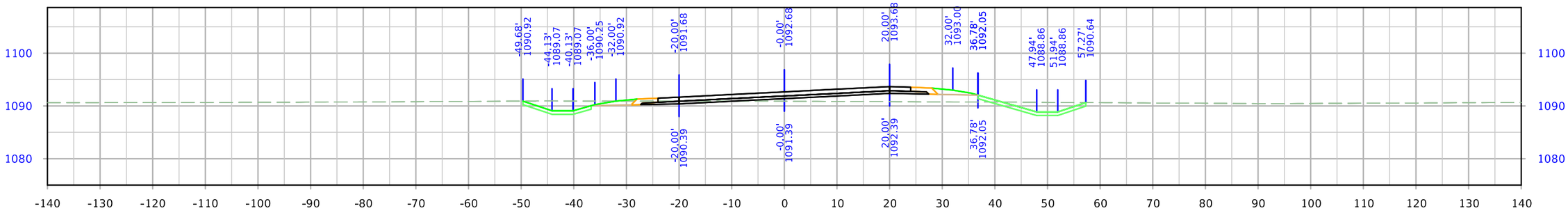
# 235th Street




STA. 5004+50.00




STA. 5004+00.00

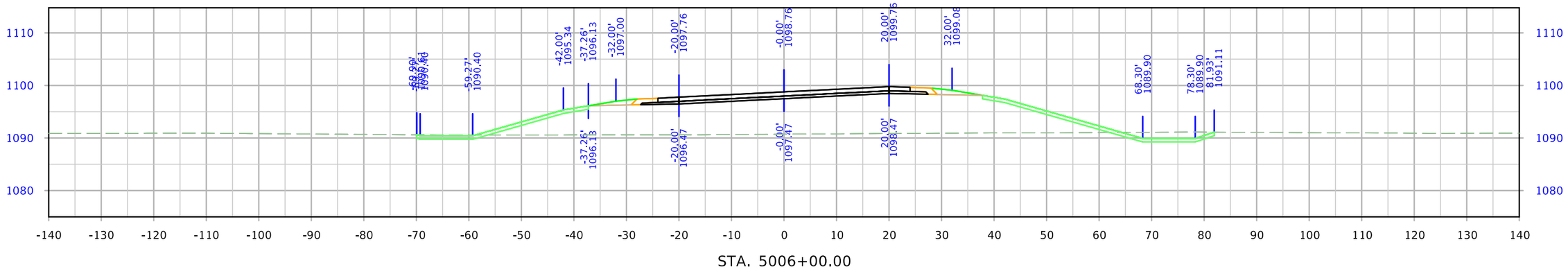



STA. 5003+50.00

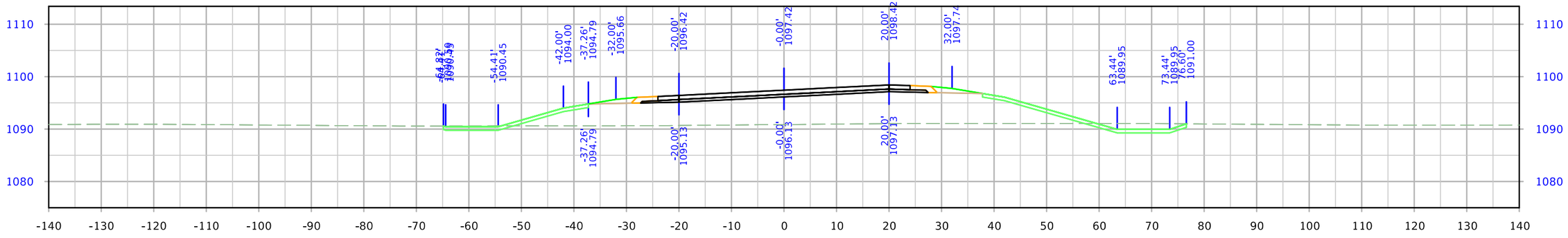
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.3 | |
|---|---|---|---|---|---|---|

3:10:27 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

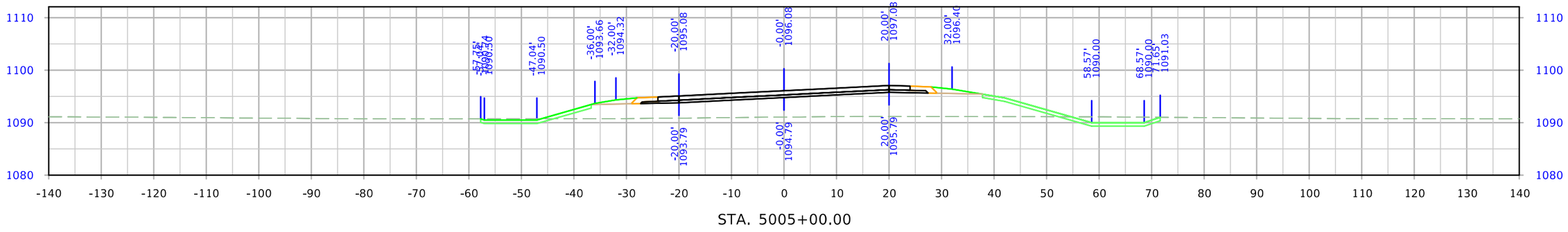
# 235th Street




STA. 5006+00.00




STA. 5005+50.00

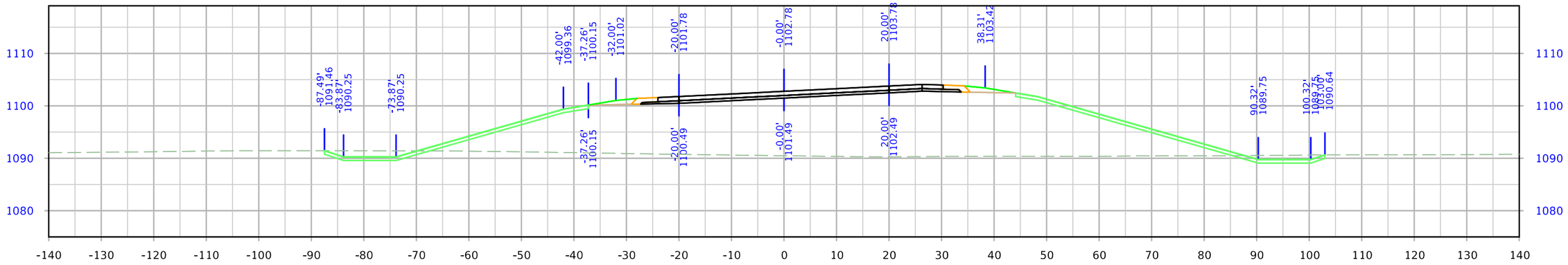



STA. 5005+00.00

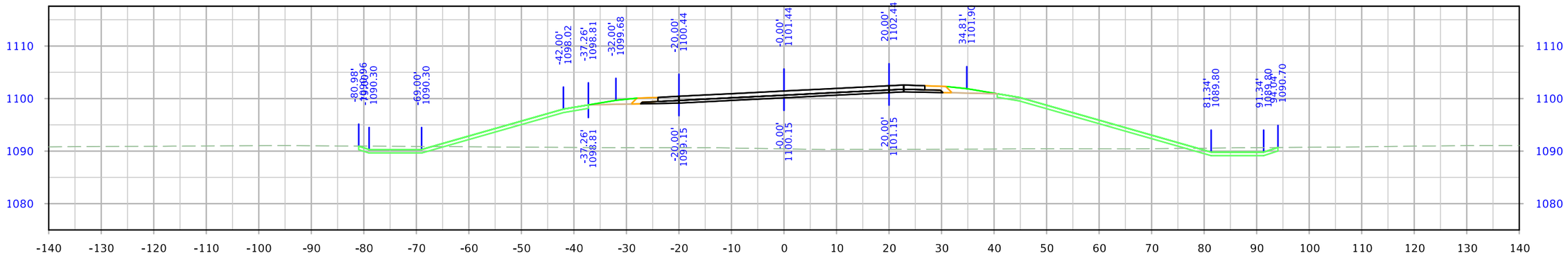
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.4 |
|---|---|---|---|---|---|

3:10:30 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

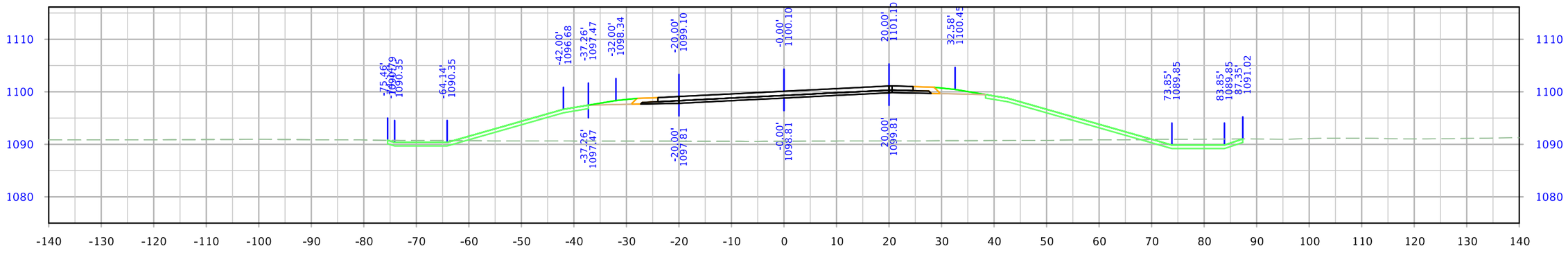
# 235th Street




STA. 5007+50.00




STA. 5007+00.00

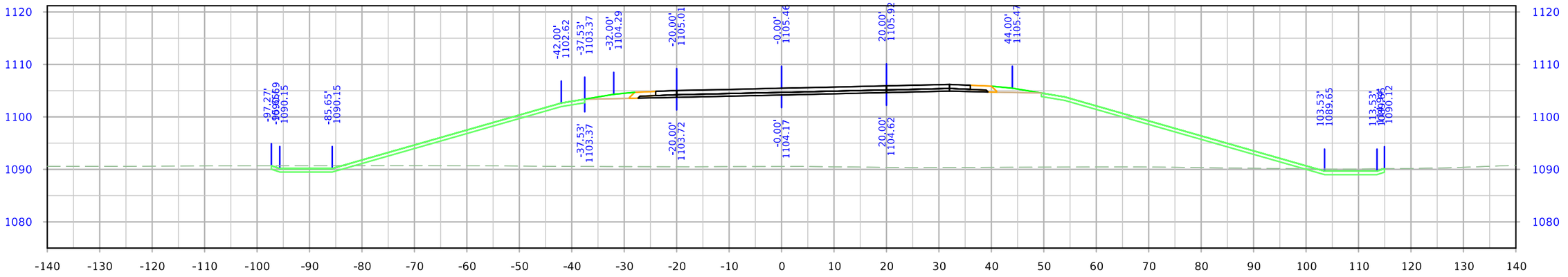



STA. 5006+50.00

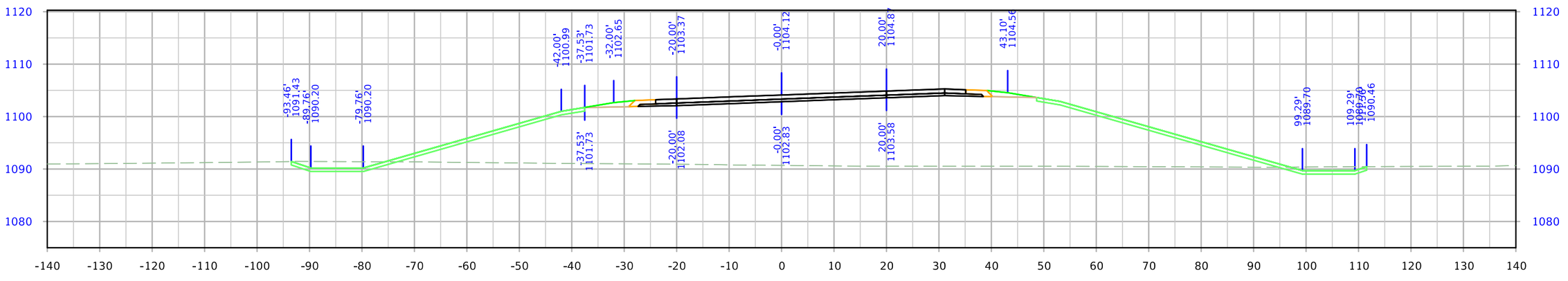
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.5 |
|---|---|---|---|---|---|

3:10:35 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5008+50.00

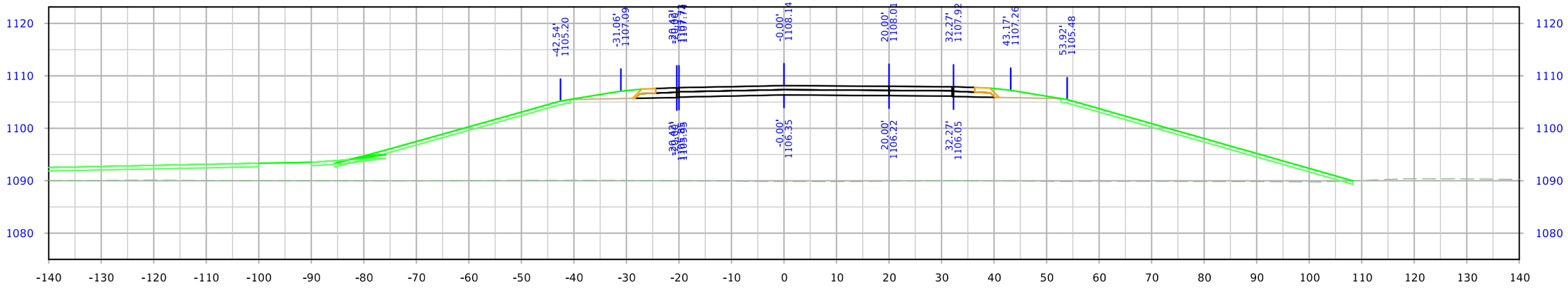



STA. 5008+00.00

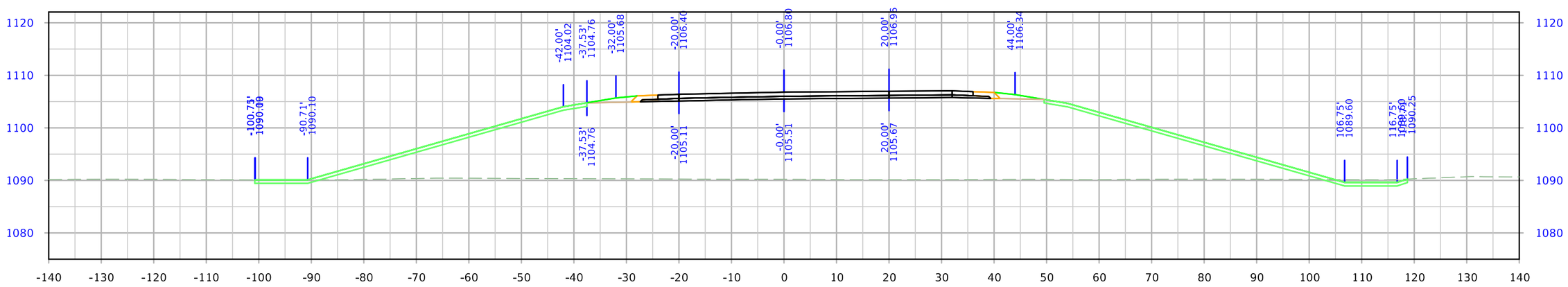
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.6 |
|---|---|---|---|---|---|

3:10:37 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5009+50.00

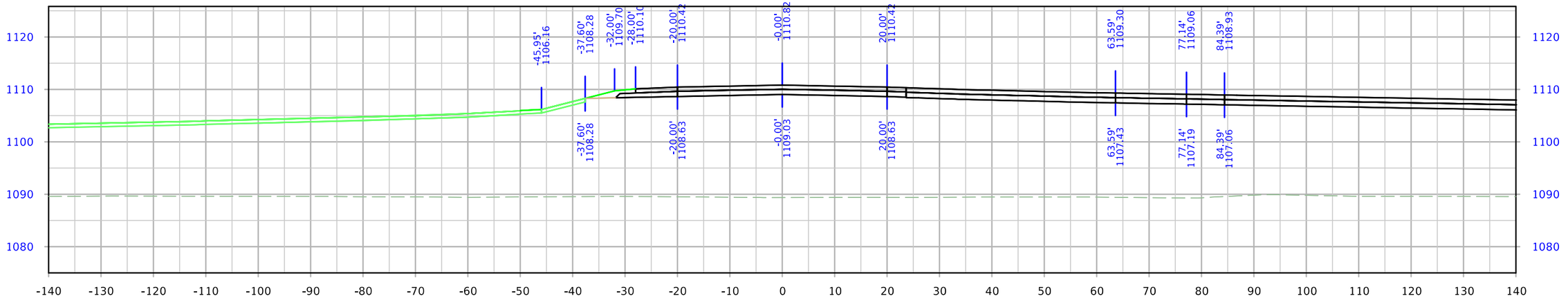



STA. 5009+00.00

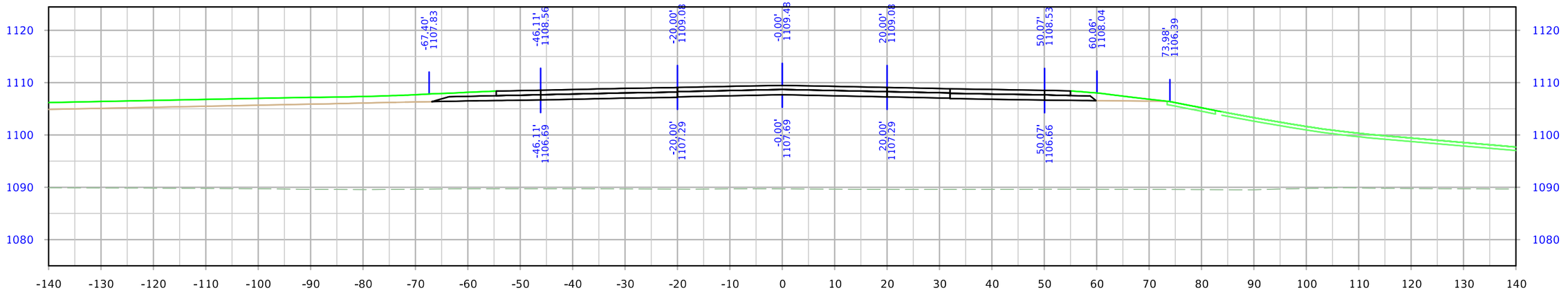
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.7 |
|---|---|---|---|---|---|

3:10:40 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5010+50.00

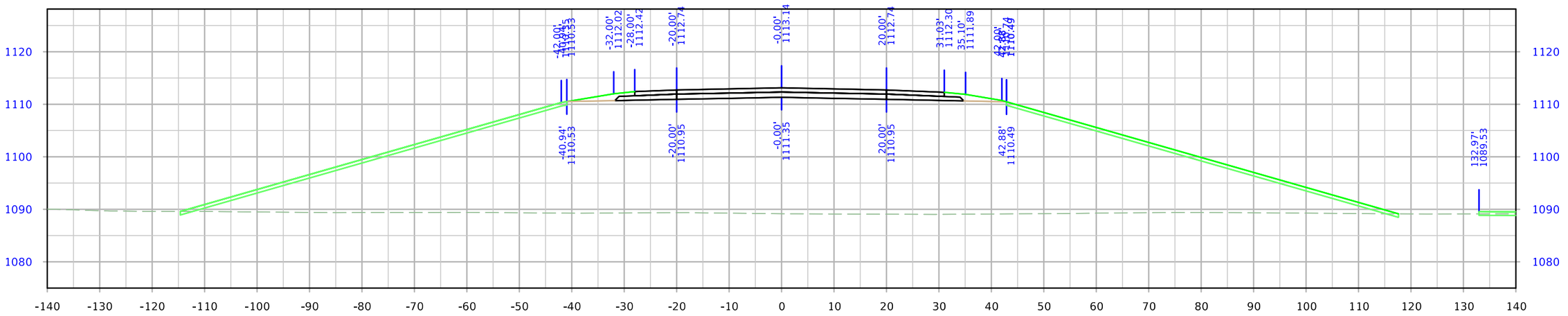



STA. 5010+00.00

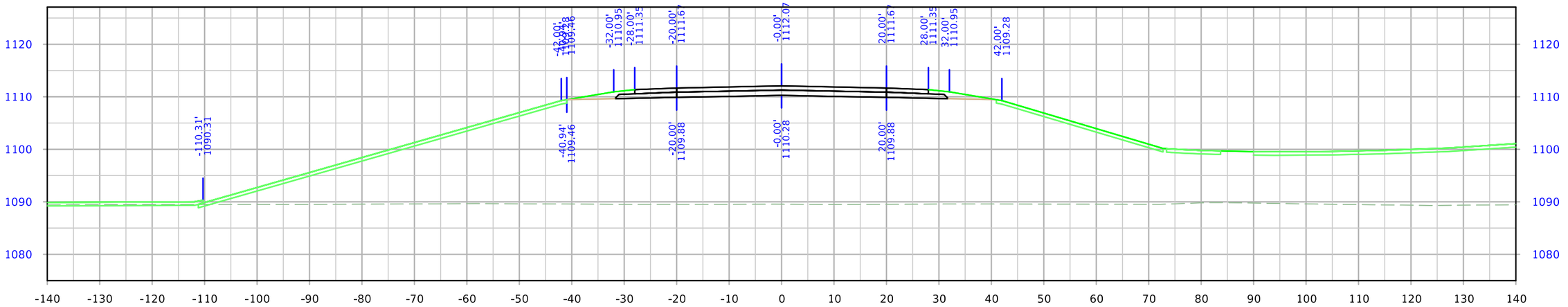
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.8 |
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3:10:43 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5011+50.00

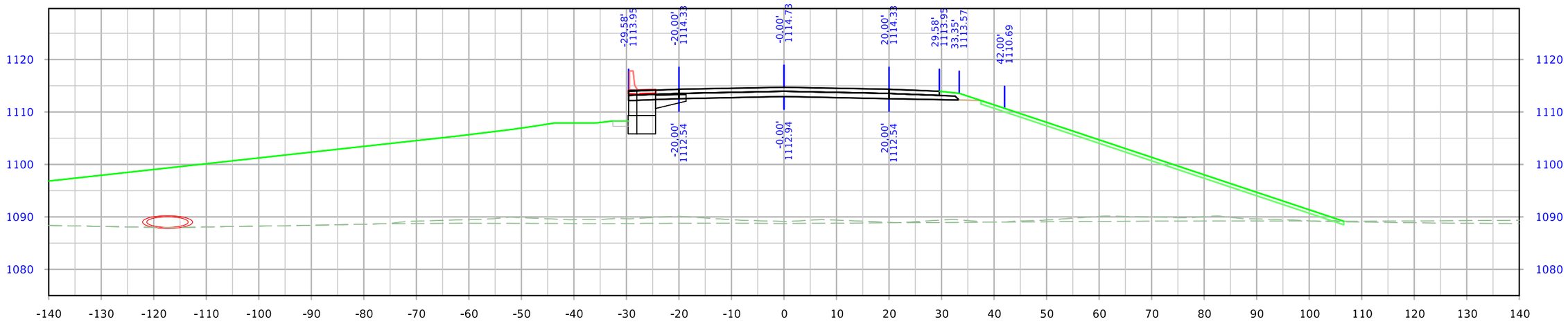



STA. 5011+00.00

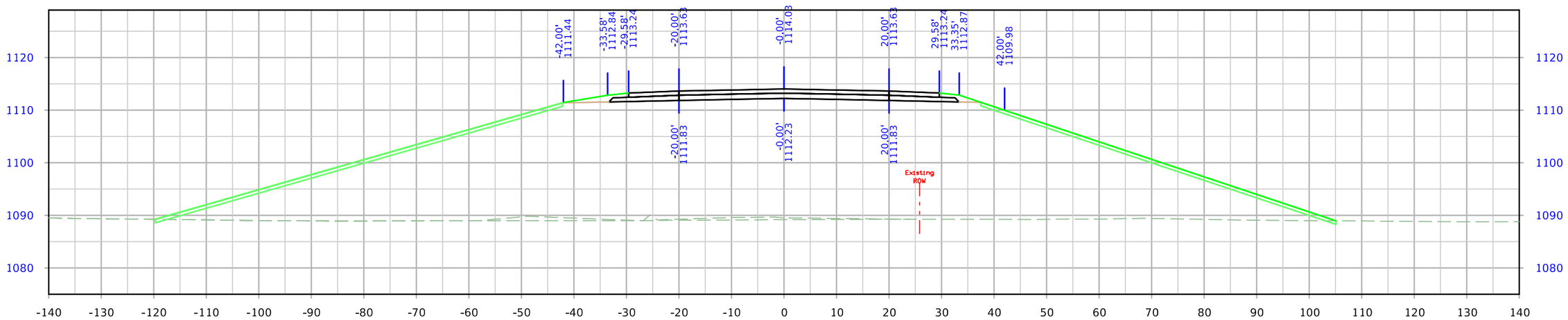
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.9 |
|---|---|---|---|---|---|

3:10:46 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5012+50.00

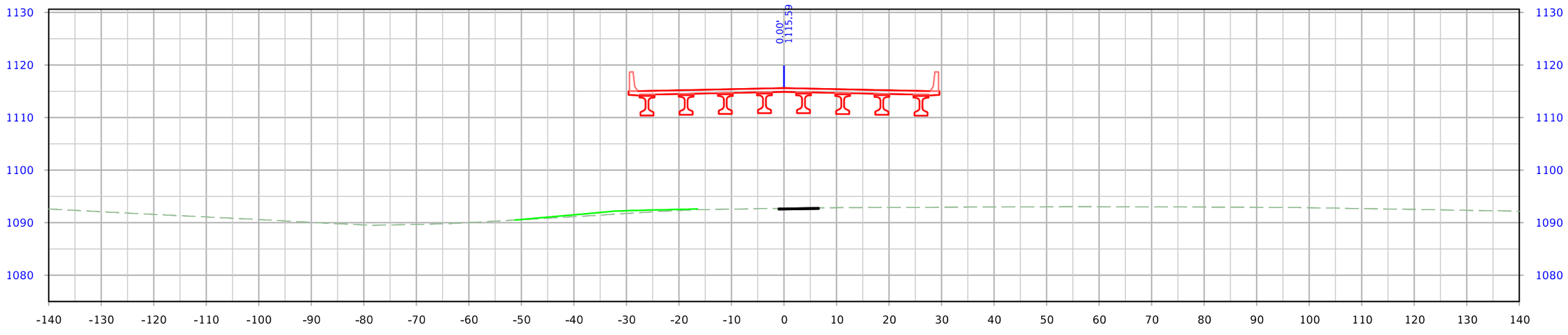



STA. 5012+00.00

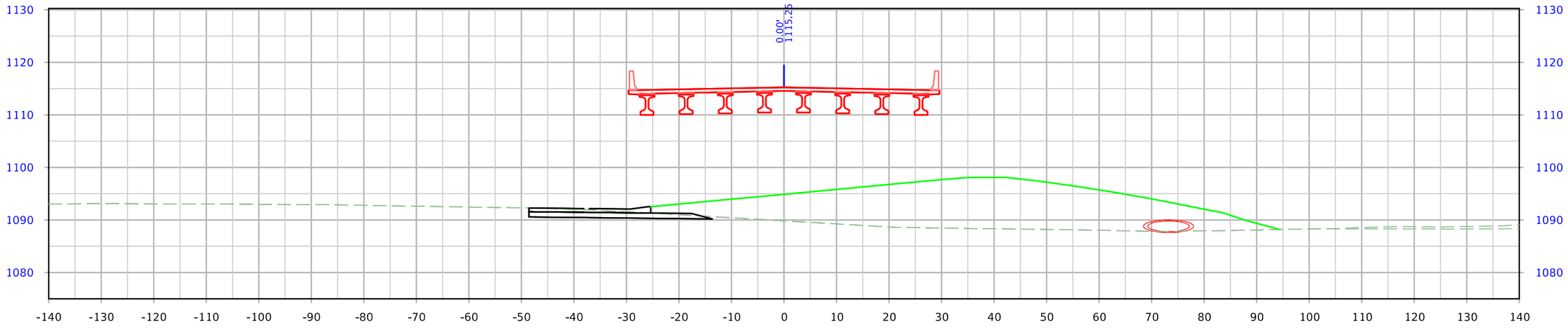
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|---|---|---|---|---|---|

3:10:50 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5013+50.00

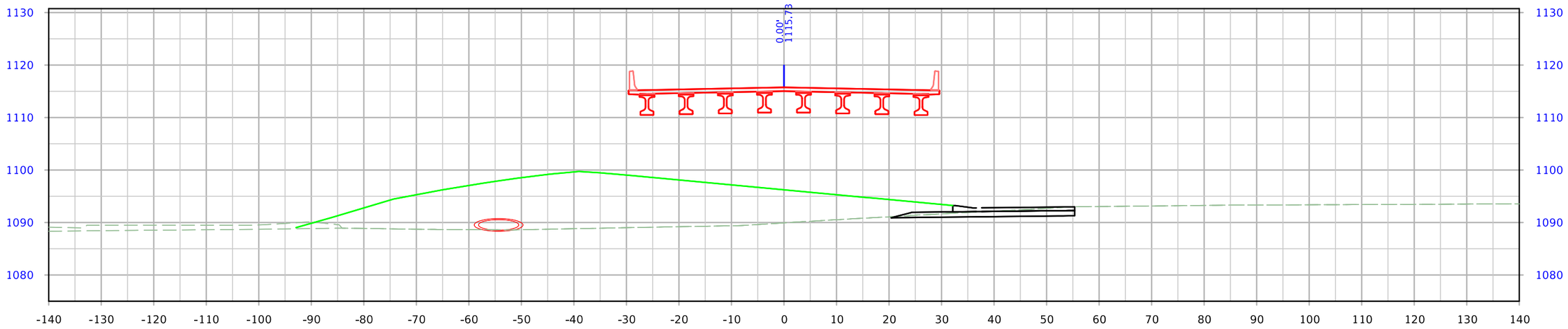



STA. 5013+00.00

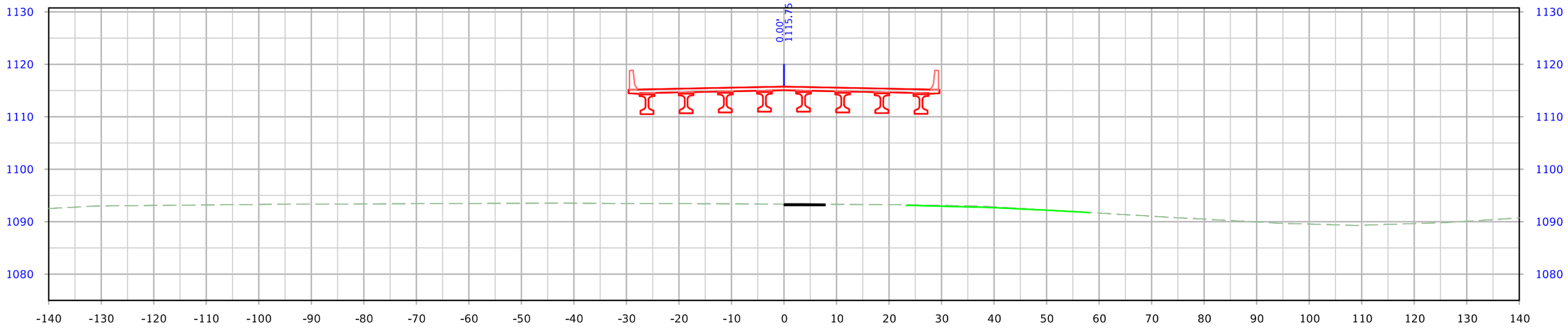
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.11 |
|---|---|---|---|---|---|

3:10:53 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5014+50.00

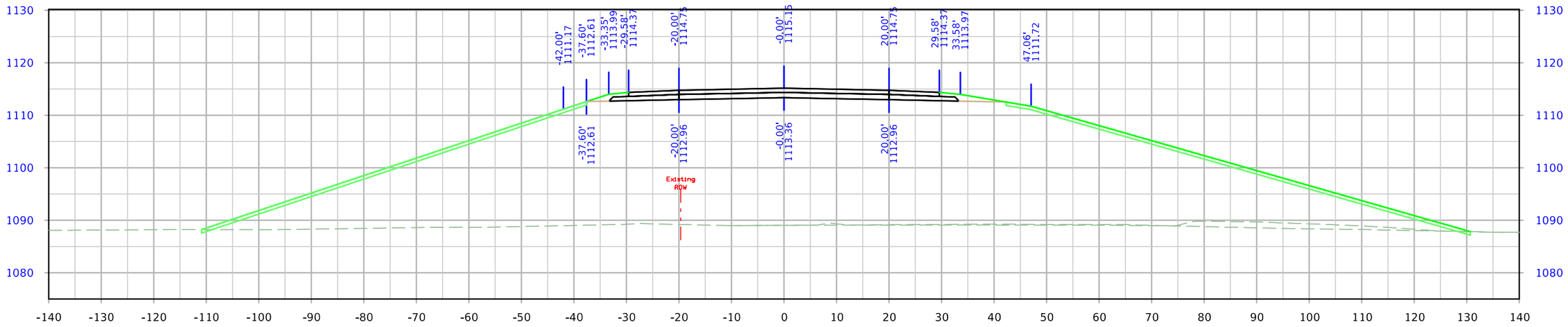



STA. 5014+00.00

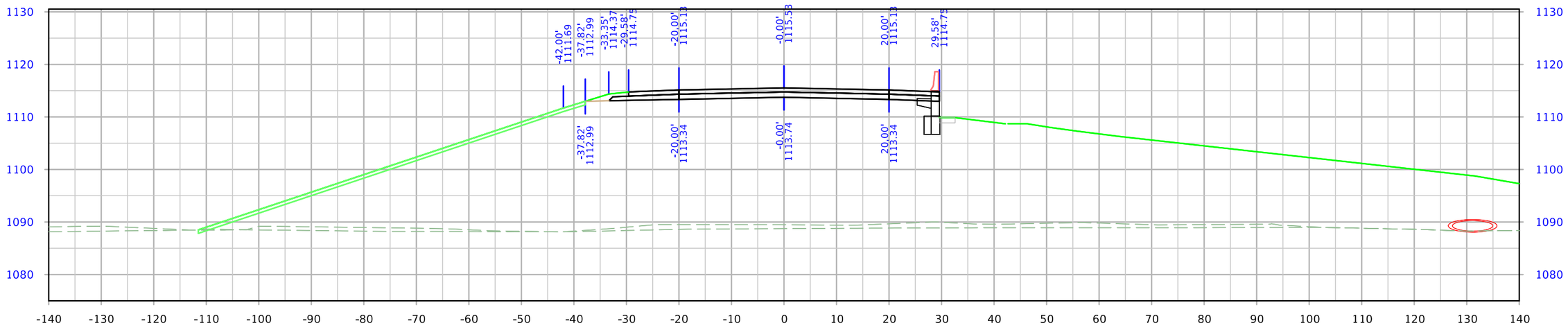
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3:10:56 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5015+50.00

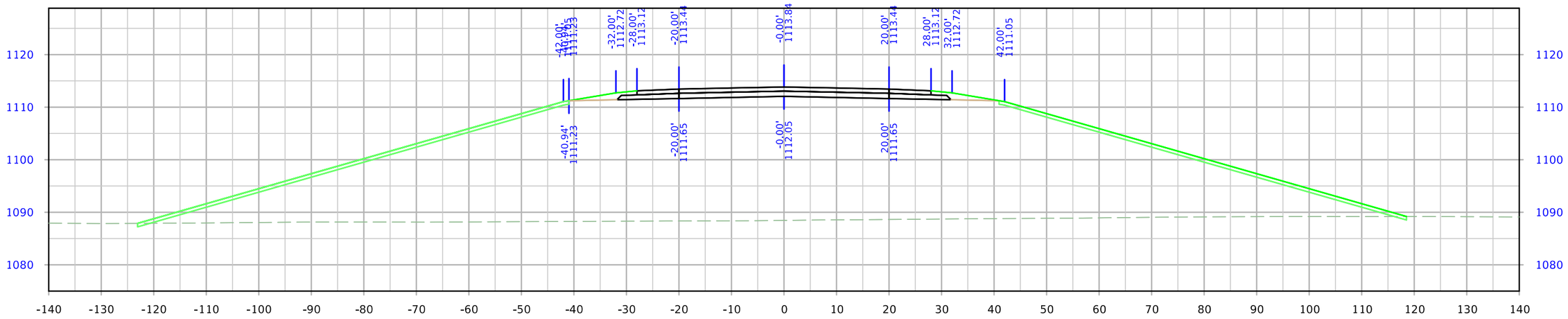



STA. 5015+00.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.13 |
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3:10:59 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street



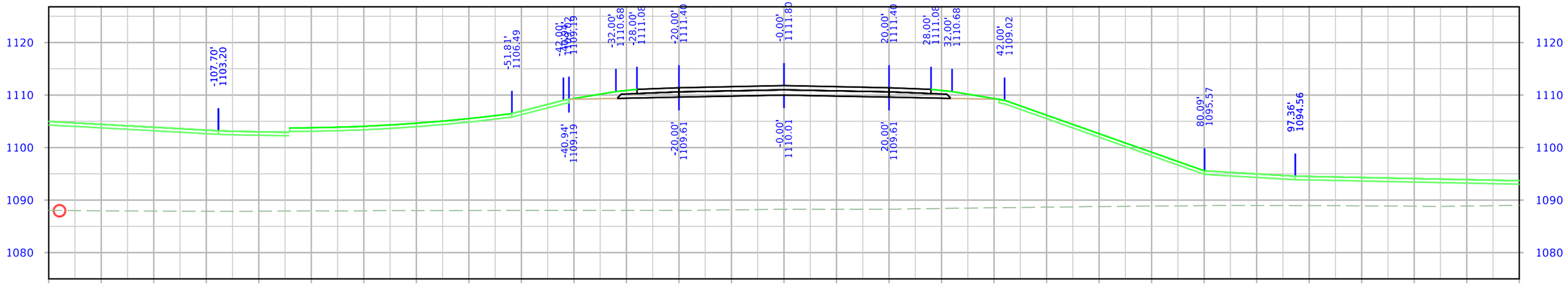

STA. 5016+00.00

STA. 5016+50.00

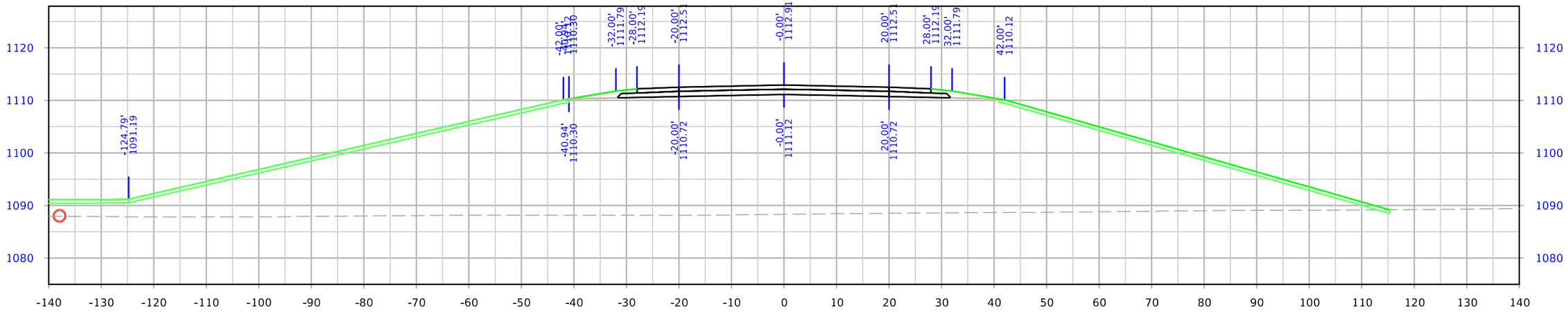
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.14 |
|---|---|---|---|---|---|

3:11:02 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5017+50.00

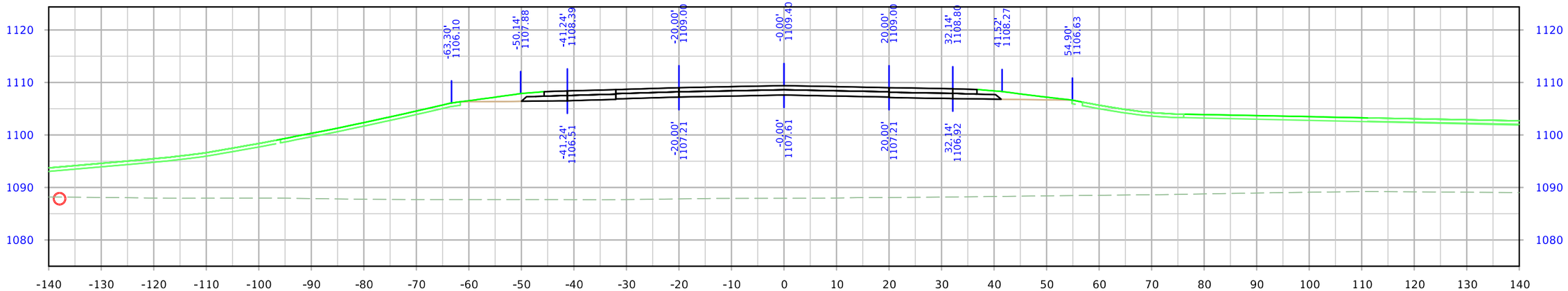



STA. 5017+00.00

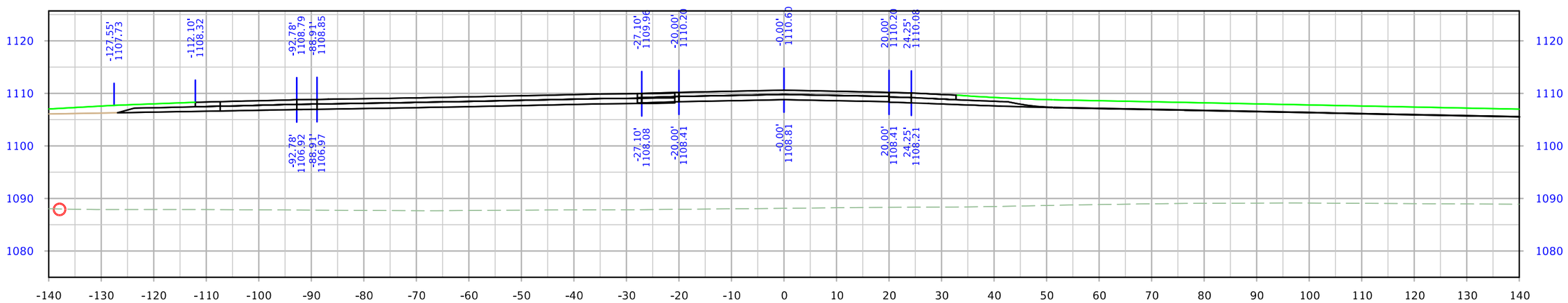
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3:11:05 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5018+50.00

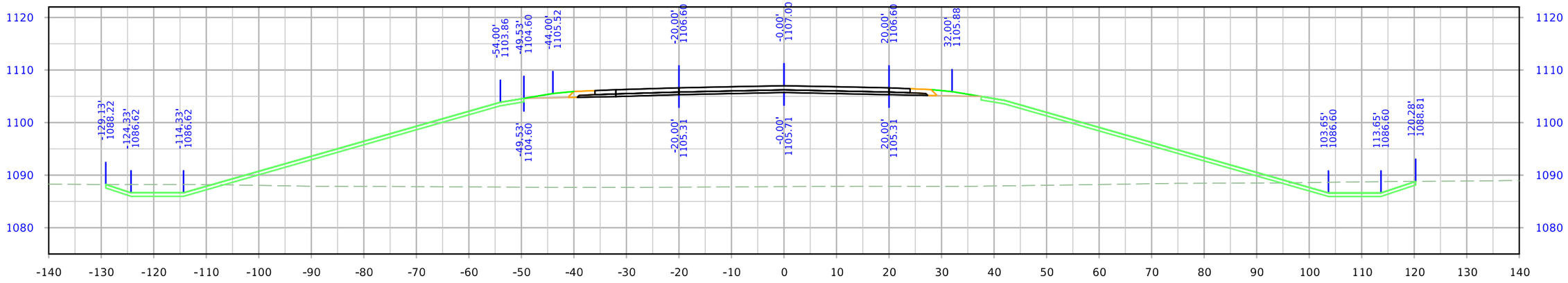



STA. 5018+00.00

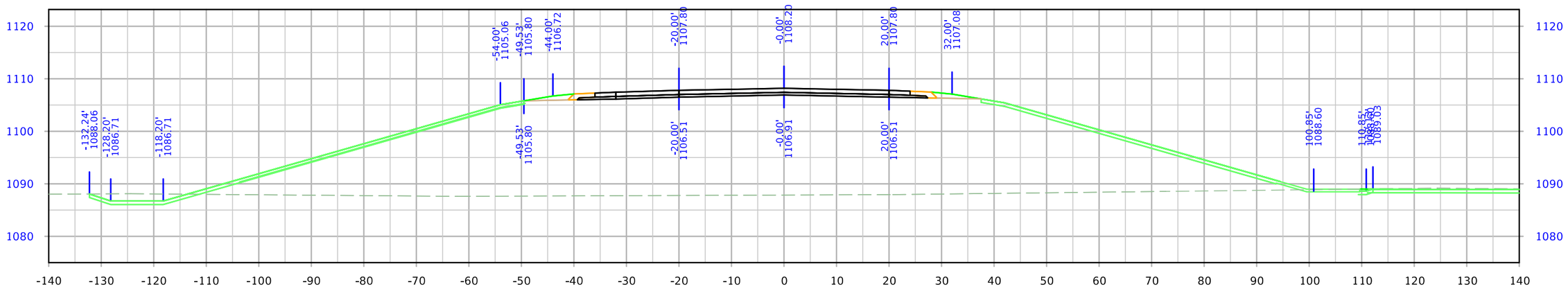
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.16 |
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3:11:08 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

# 235th Street




STA. 5019+50.00

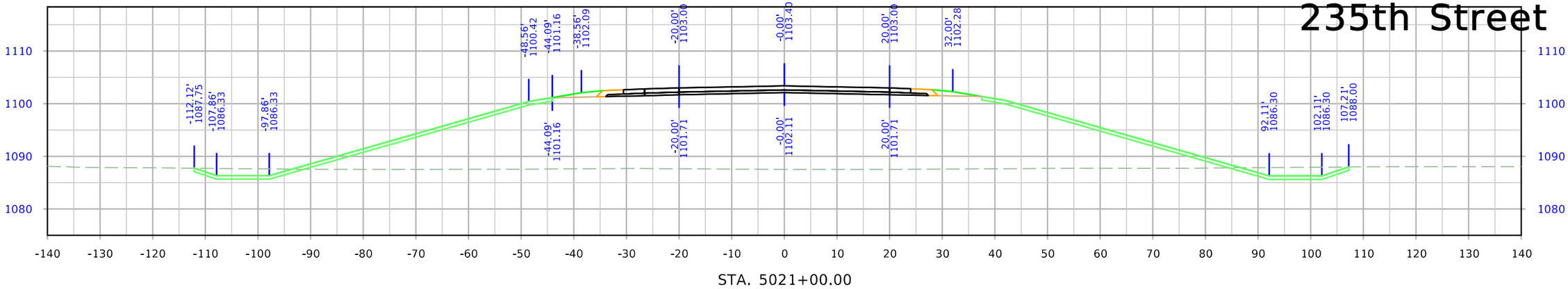



STA. 5019+00.00

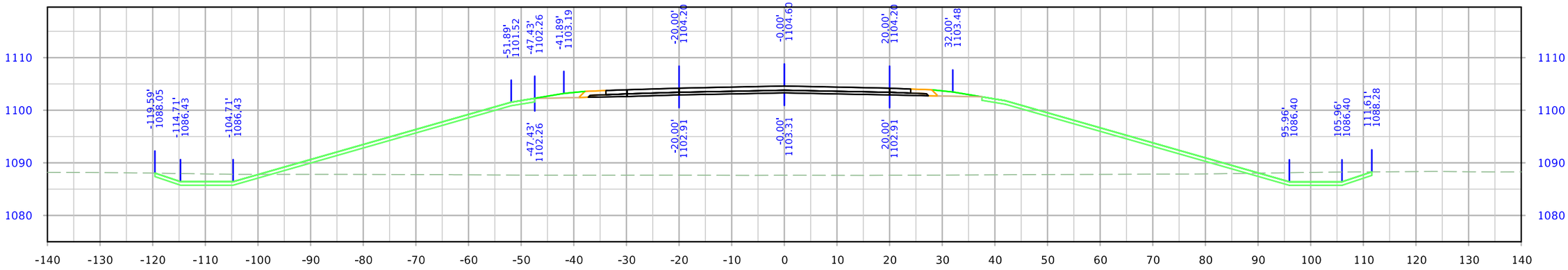
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.17 |
|---|---|---|---|---|---|

3:11:11 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

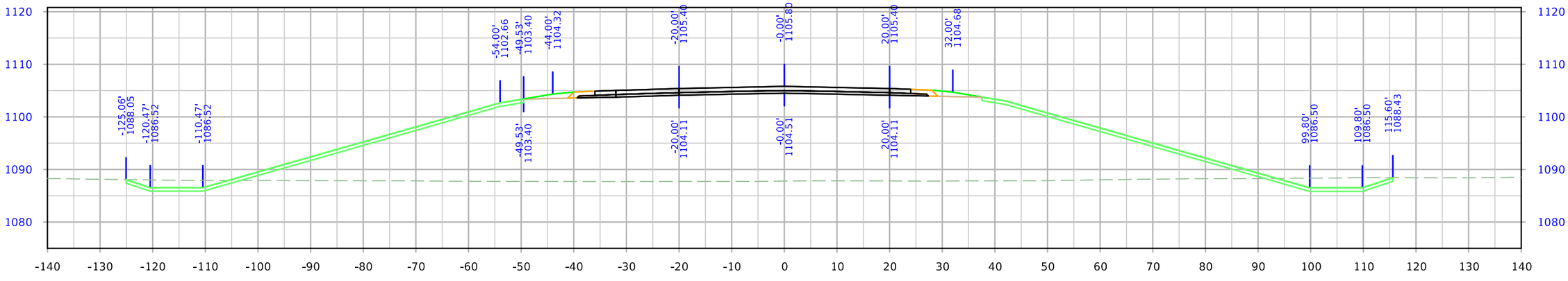
# 235th Street




STA. 5021+00.00




STA. 5020+50.00

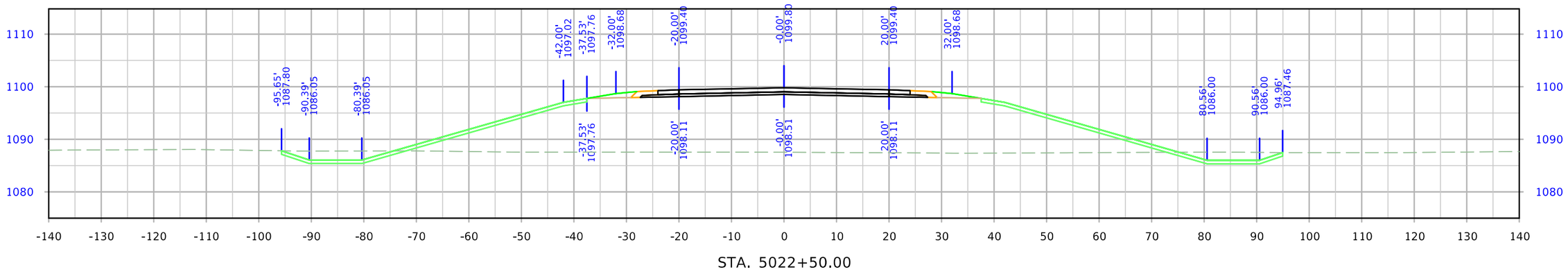



STA. 5020+00.00

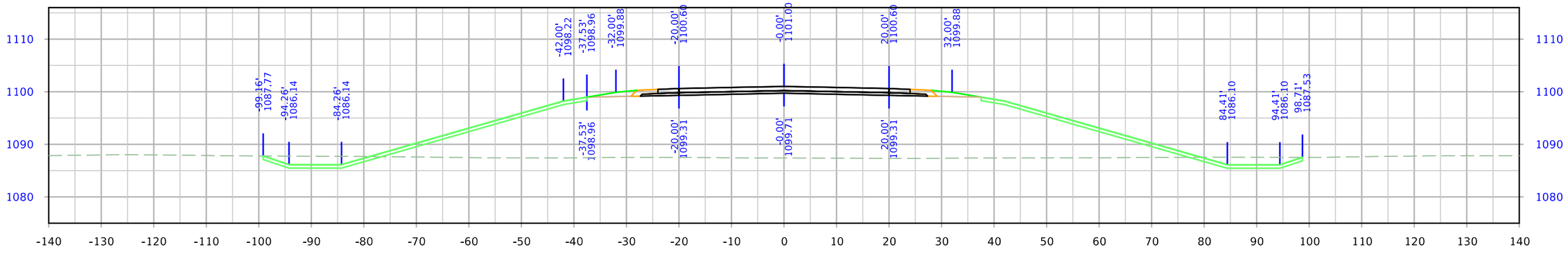
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.18 |
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3:11:14 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

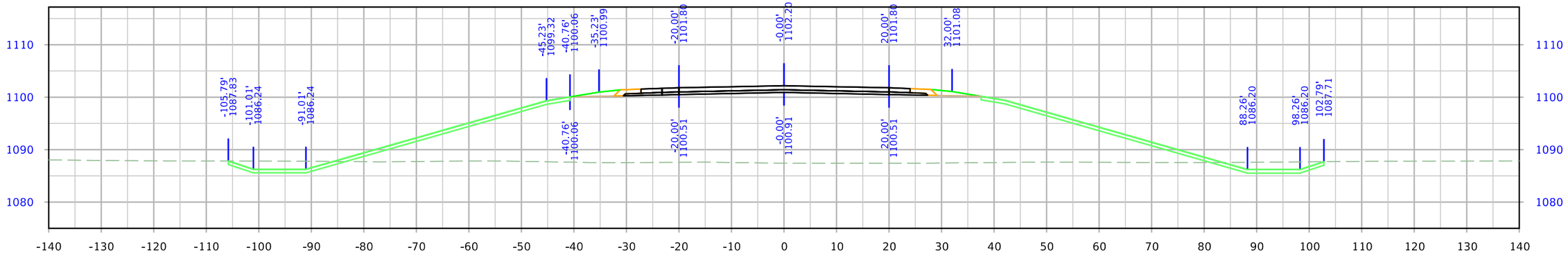
# 235th Street




STA. 5022+50.00




STA. 5022+00.00

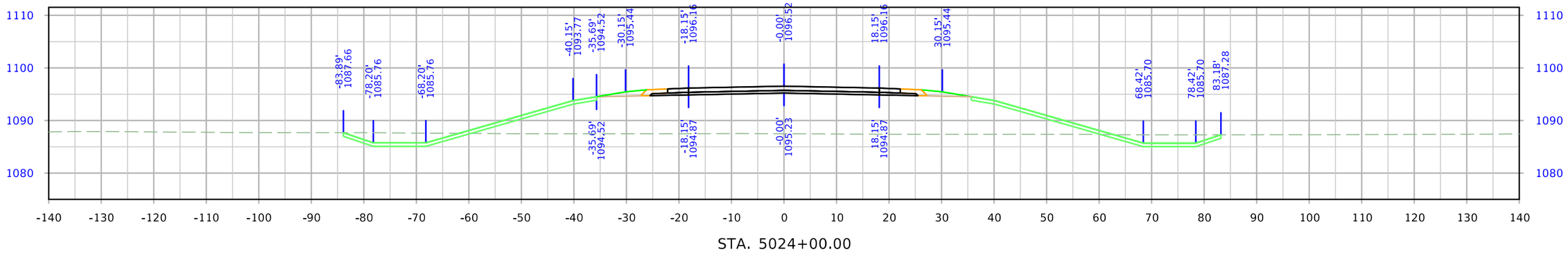



STA. 5021+50.00

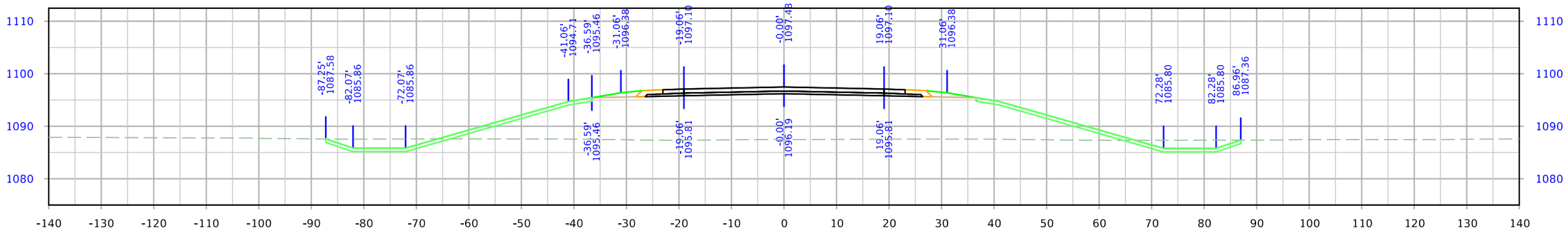
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.19 |
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3:11:18 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

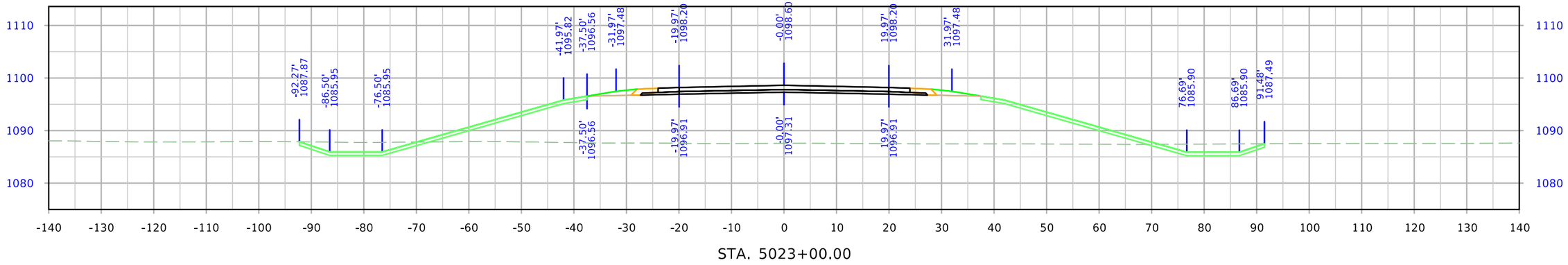
# 235th Street




STA. 5024+00.00




STA. 5023+50.00

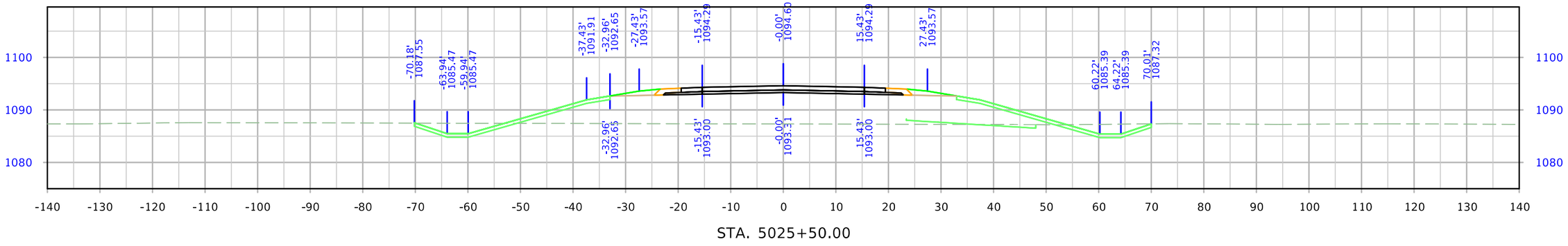



STA. 5023+00.00

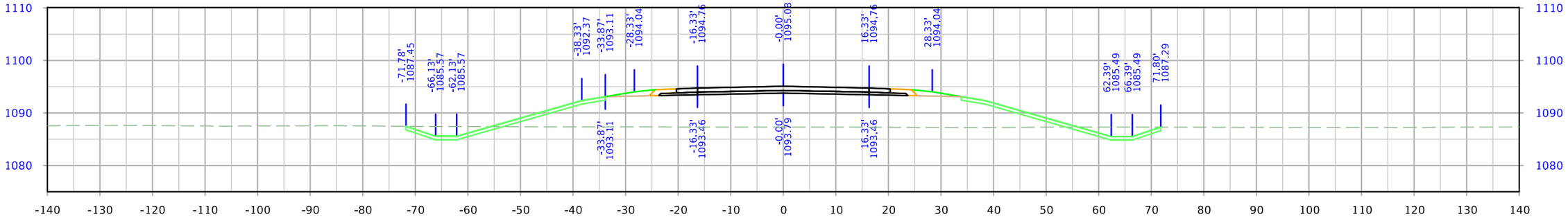
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3:11:22 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

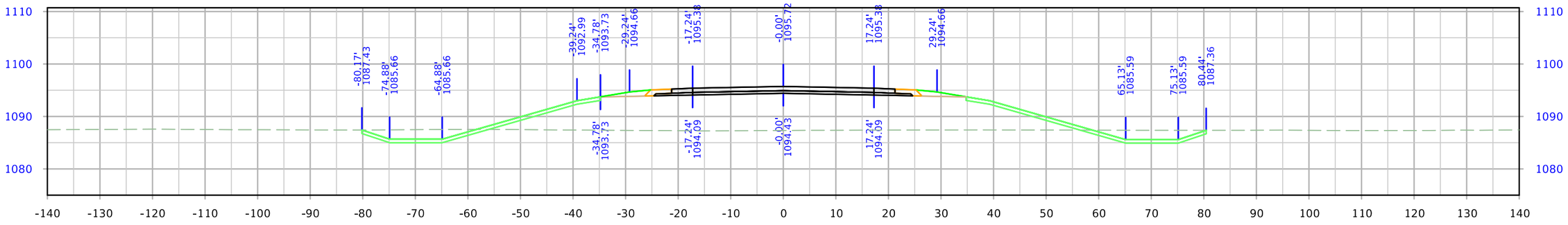
# 235th Street




STA. 5025+50.00




STA. 5025+00.00

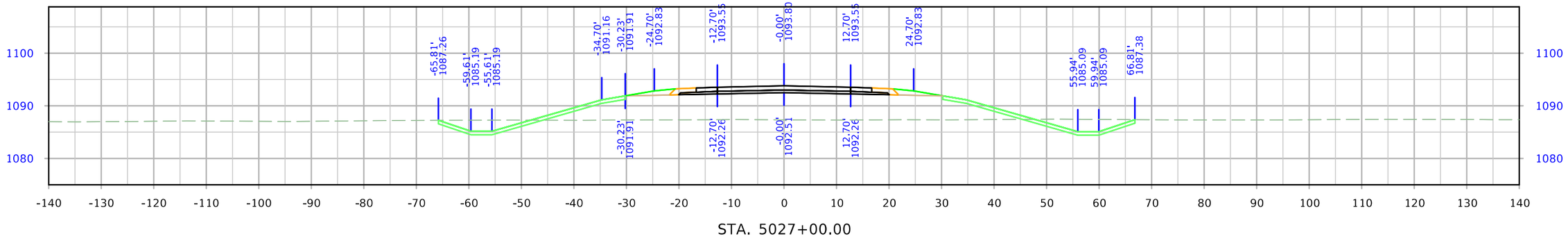



STA. 5024+50.00

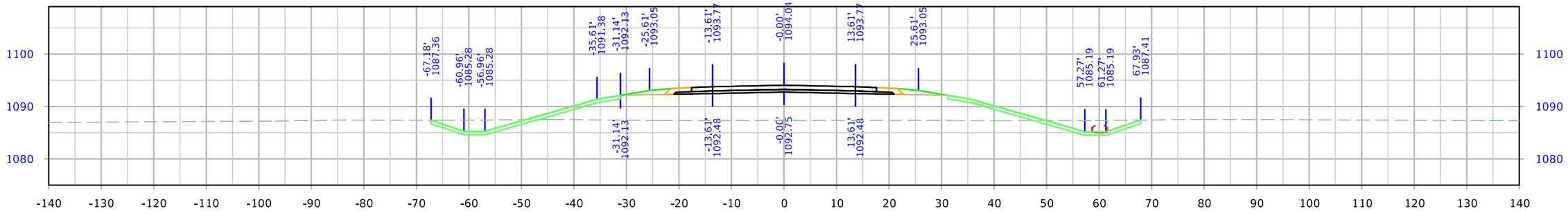
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3:11:25 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

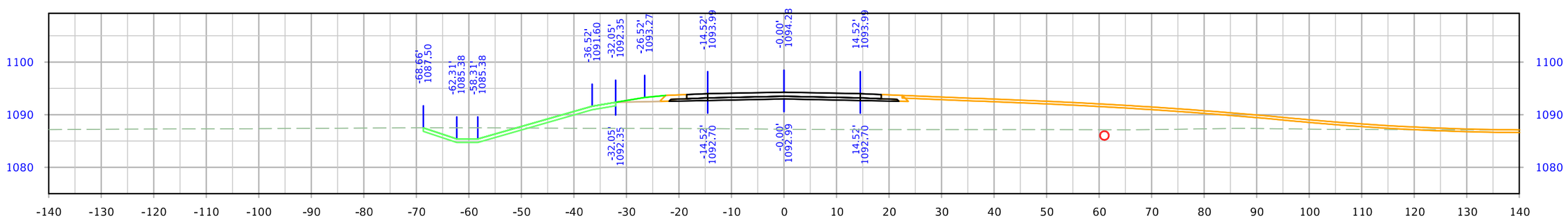
# 235th Street




STA. 5027+00.00




STA. 5026+50.00

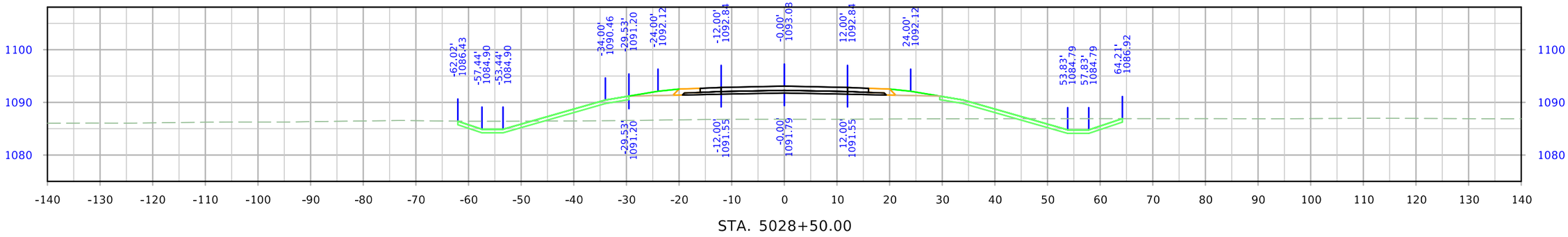



STA. 5026+00.00

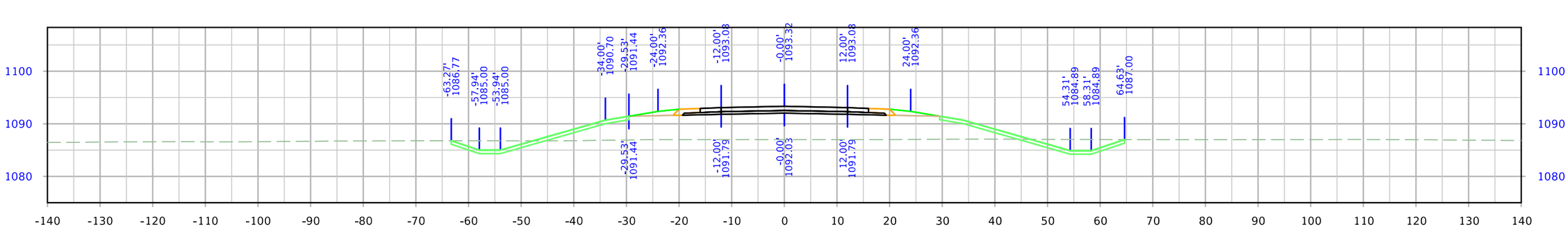
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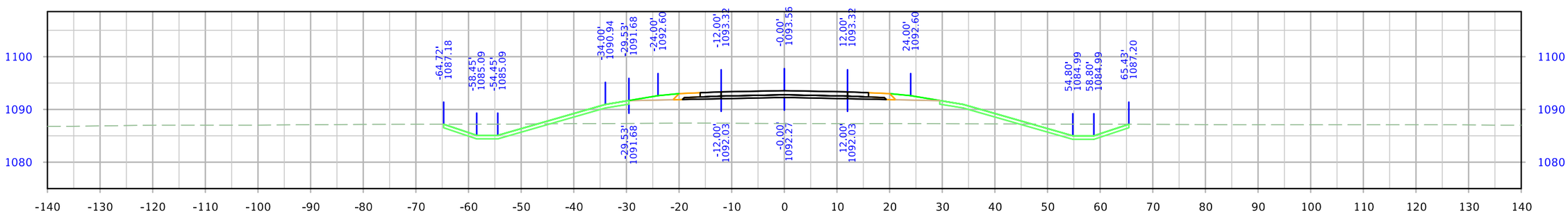
# 235th Street




STA. 5028+50.00




STA. 5028+00.00

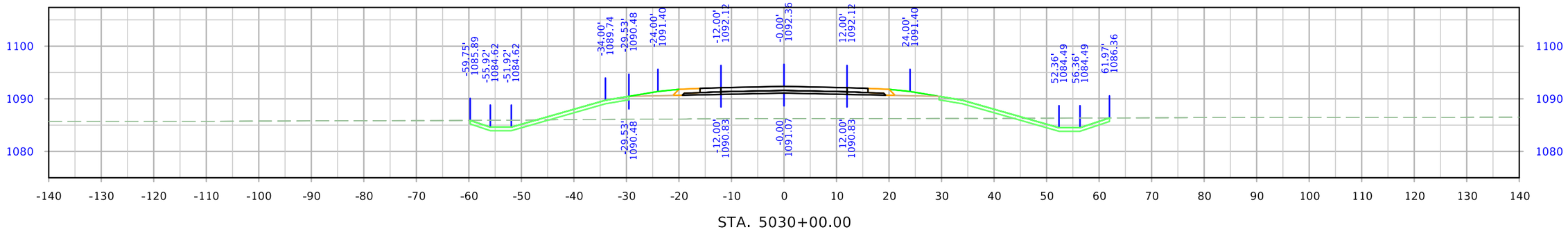



STA. 5027+50.00

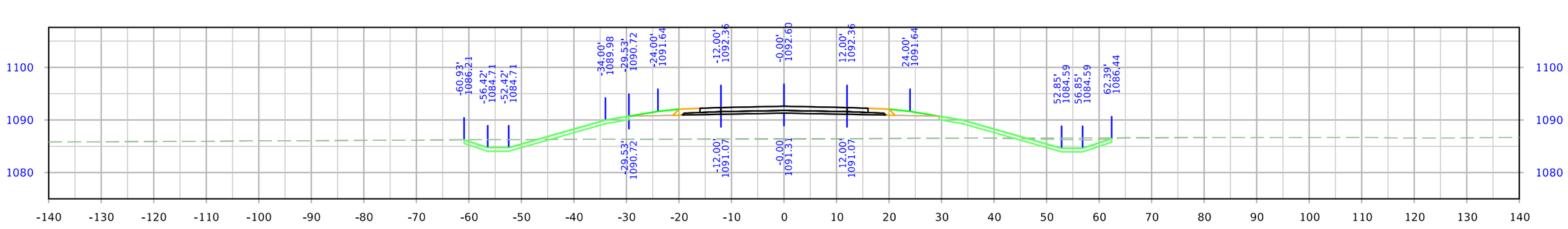
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.23 |
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3:11:32 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

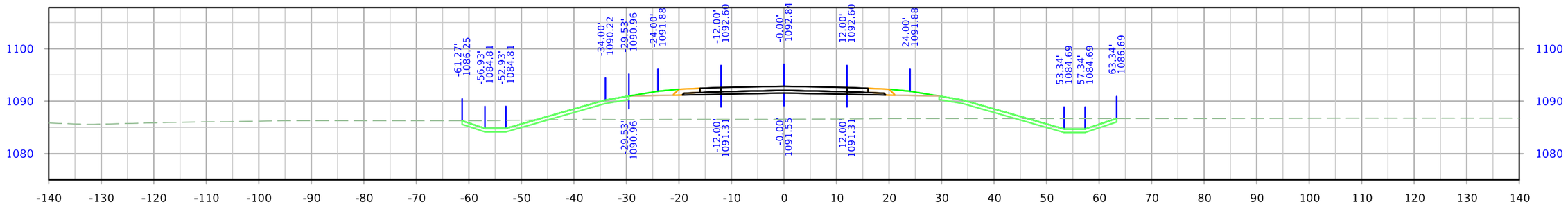
# 235th Street




STA. 5030+00.00




STA. 5029+50.00

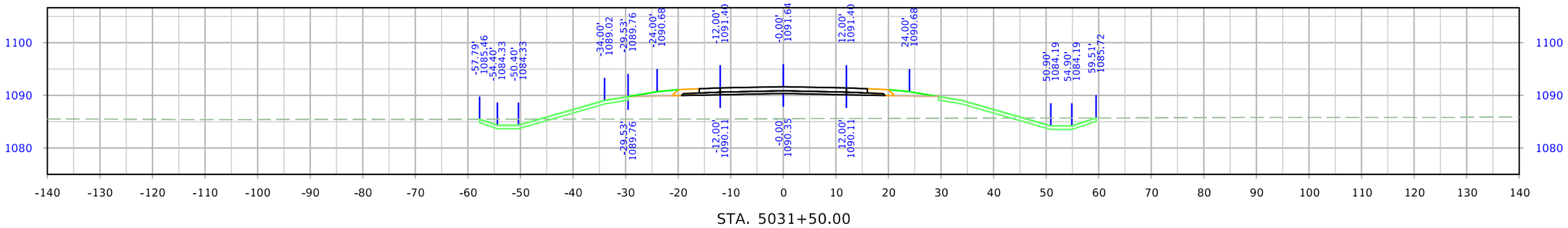



STA. 5029+00.00

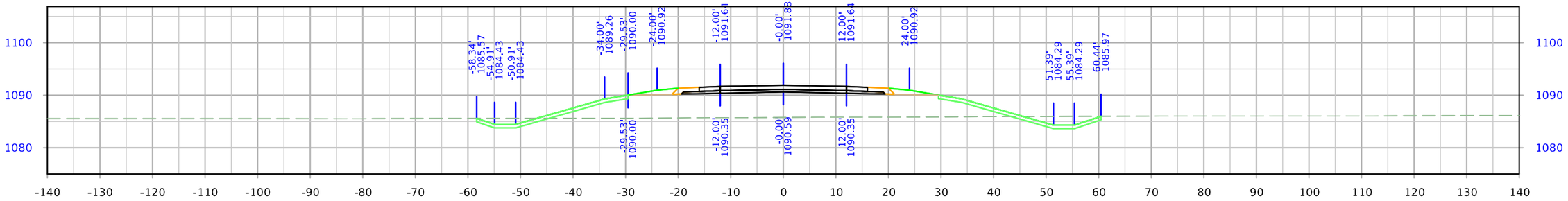
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.24 |
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3:11:36 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

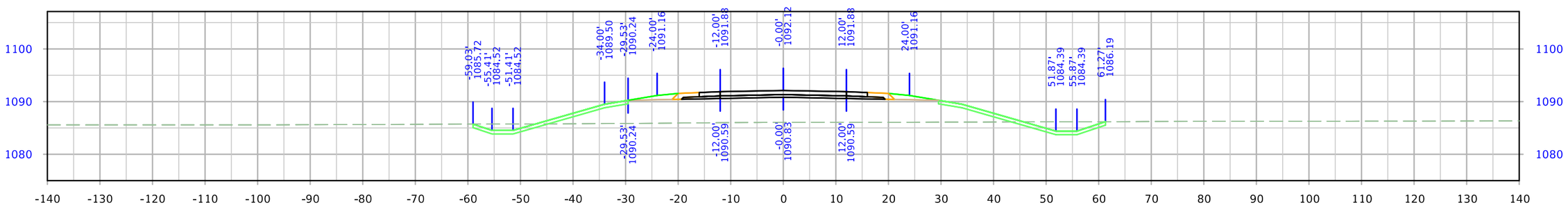
# 235th Street




STA. 5031+50.00




STA. 5031+00.00

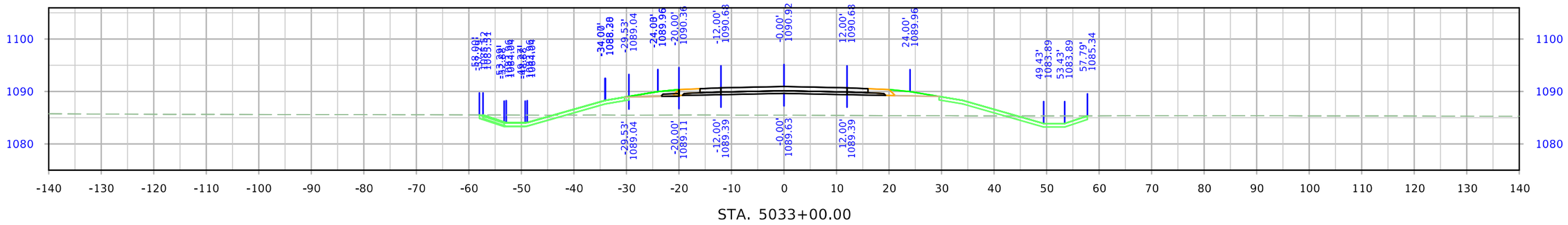



STA. 5030+50.00

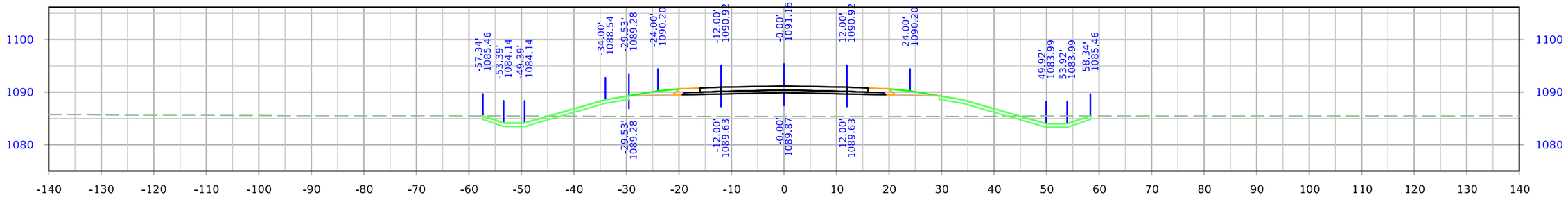
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.25 |
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3:11:39 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

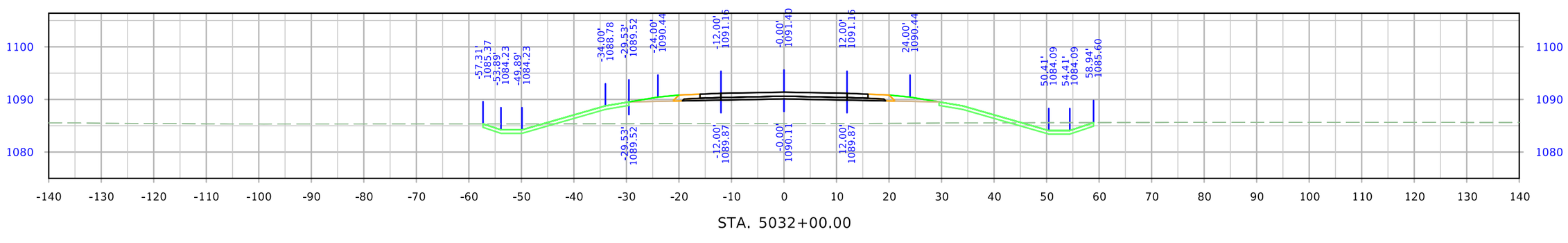
# 235th Street




STA. 5033+00.00




STA. 5032+50.00

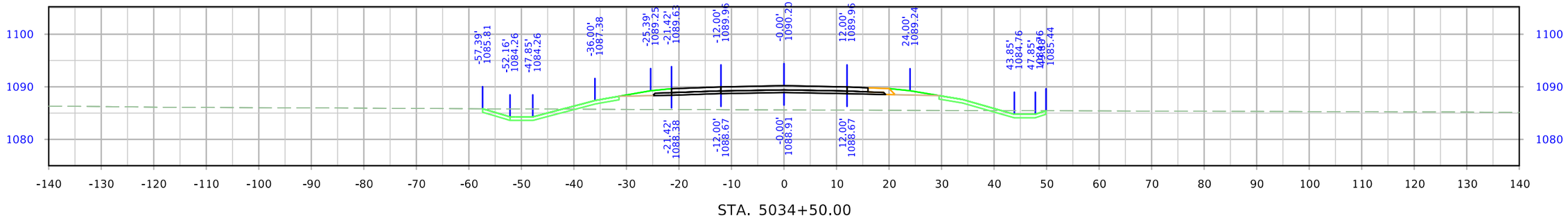



STA. 5032+00.00

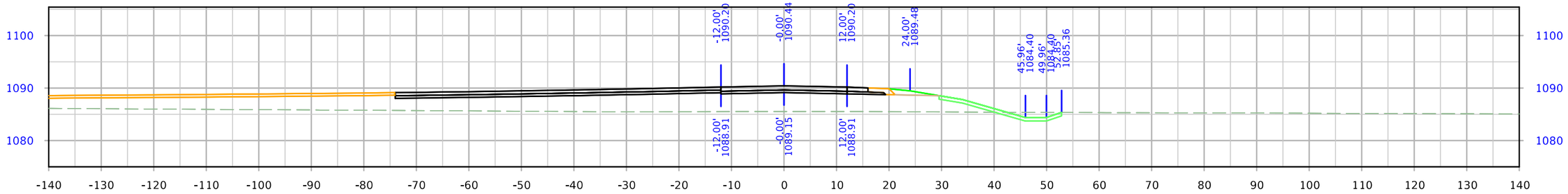
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.26 |
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3:11:43 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

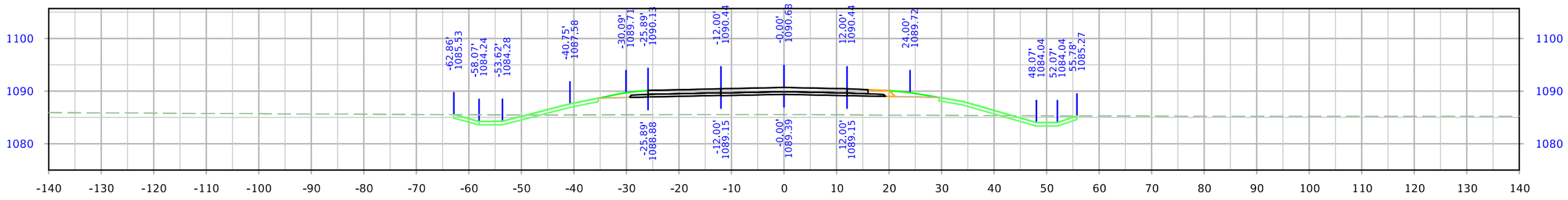
# 235th Street




STA. 5034+50.00




STA. 5034+00.00

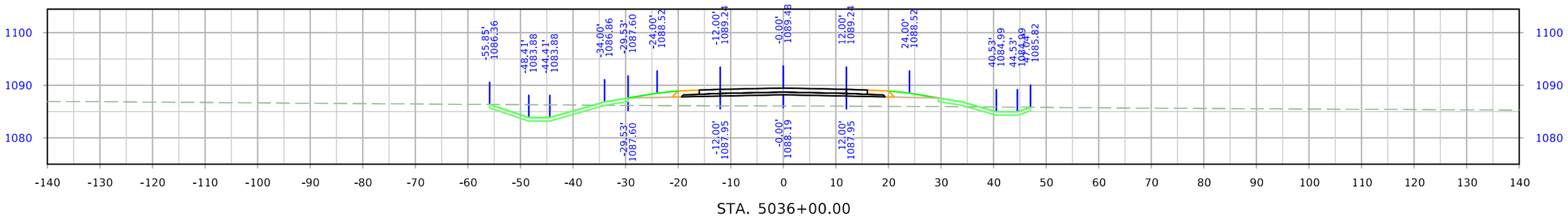



STA. 5033+50.00

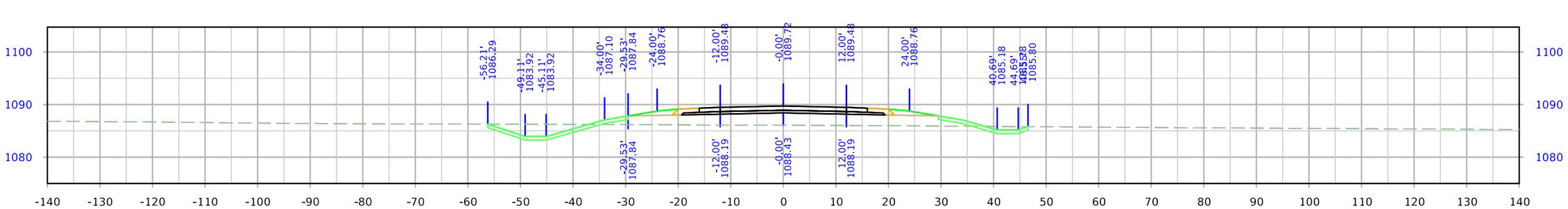
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.27 |
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3:11:46 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

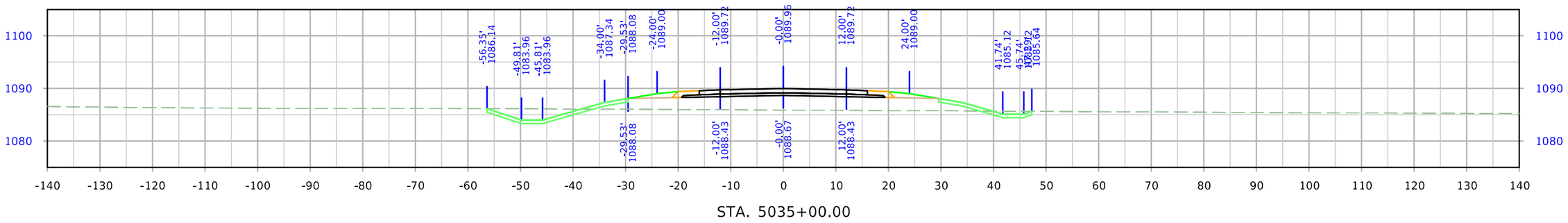
# 235th Street




STA. 5036+00.00




STA. 5035+50.00

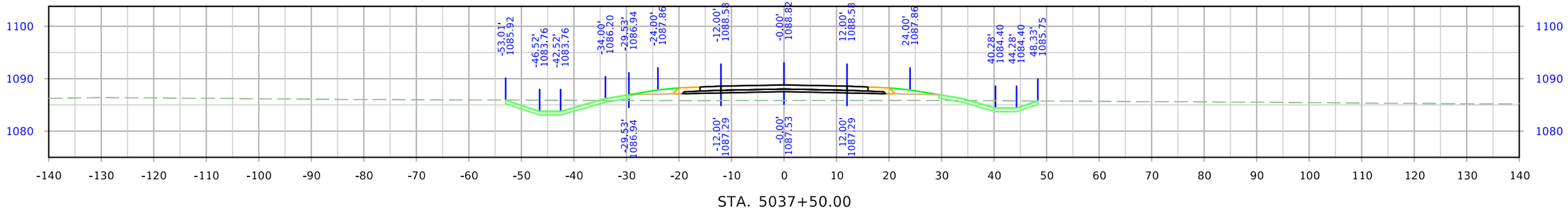



STA. 5035+00.00

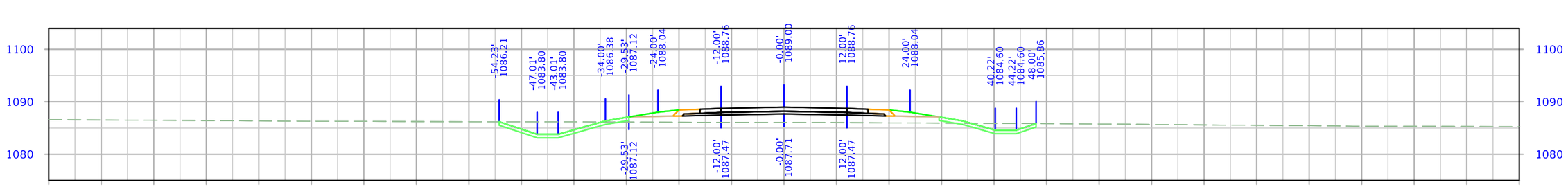
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.28 |
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3:11:50 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

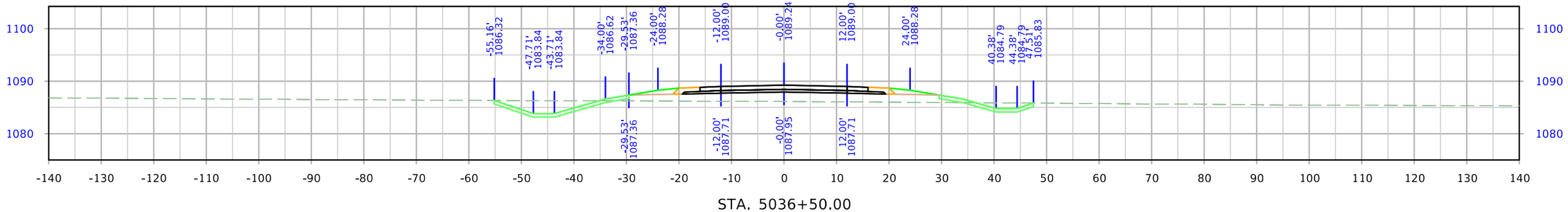
# 235th Street




STA. 5037+50.00




STA. 5037+00.00

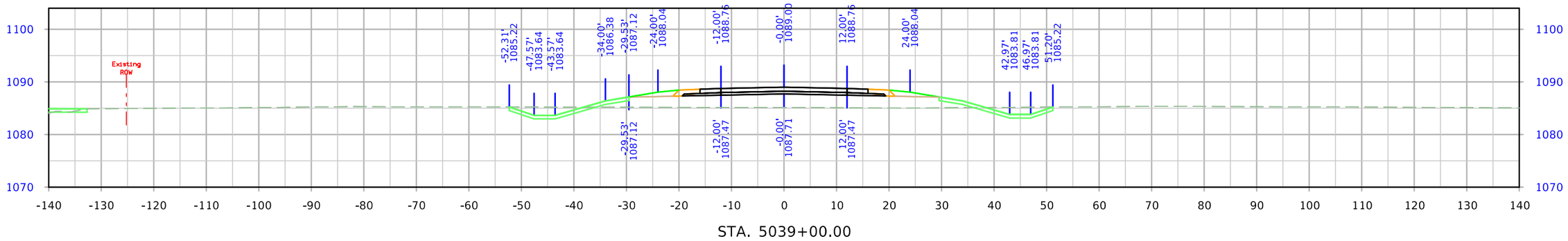



STA. 5036+50.00

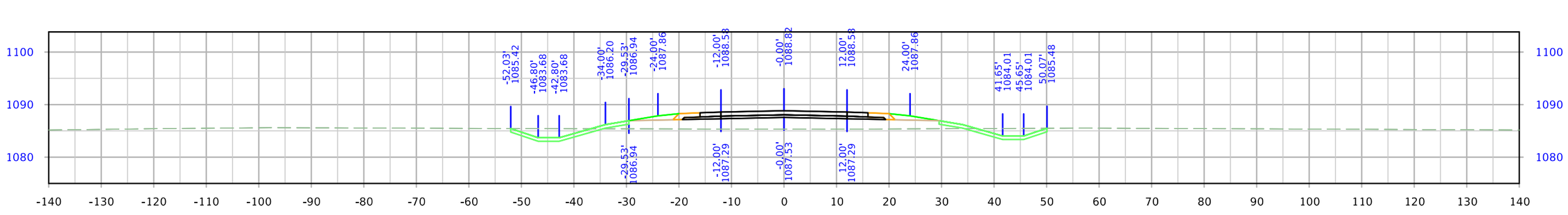
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3:11:53 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

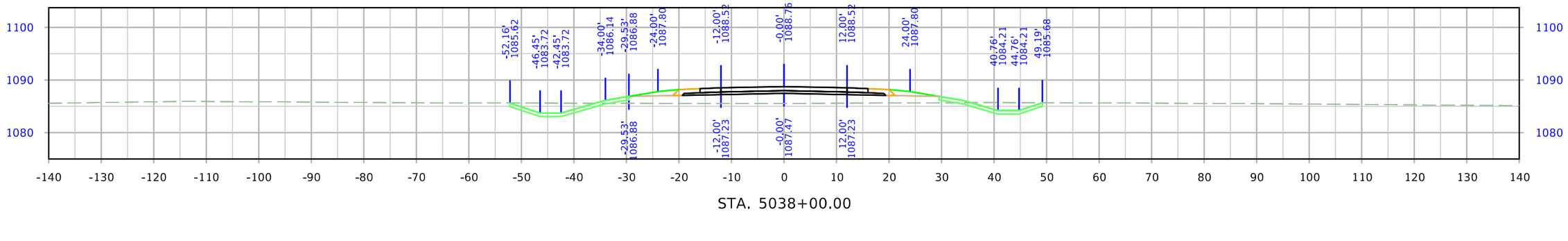
# 235th Street




STA. 5039+00.00




STA. 5038+50.00

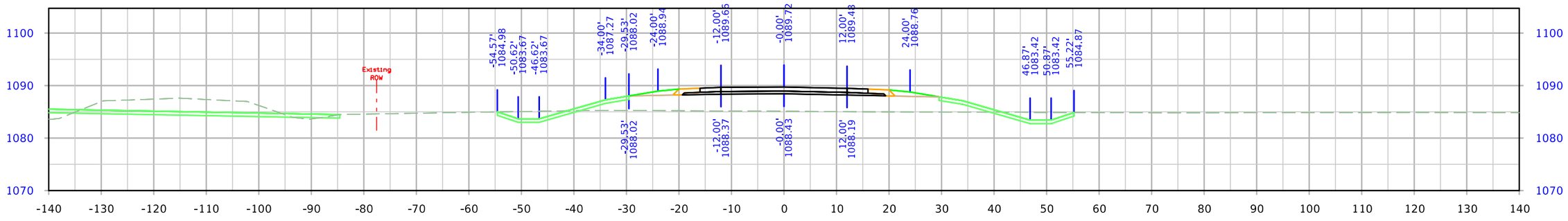



STA. 5038+00.00

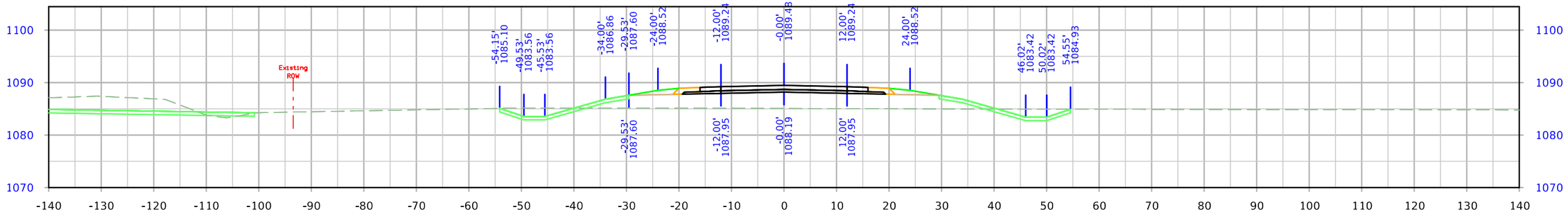
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.30 |
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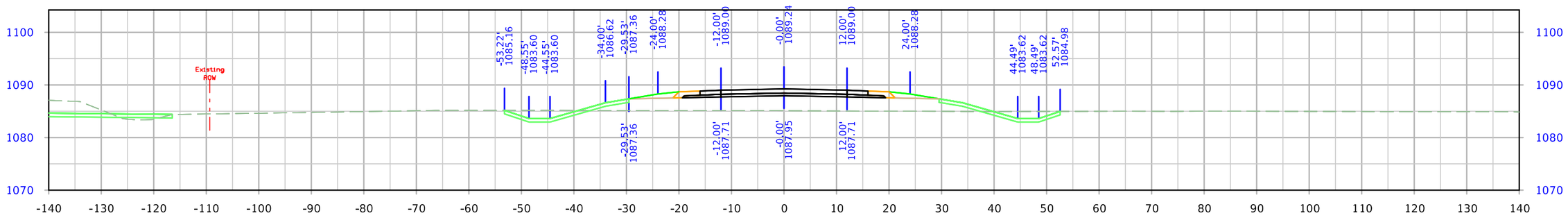
# 235th Street




STA. 5040+50.00




STA. 5040+00.00

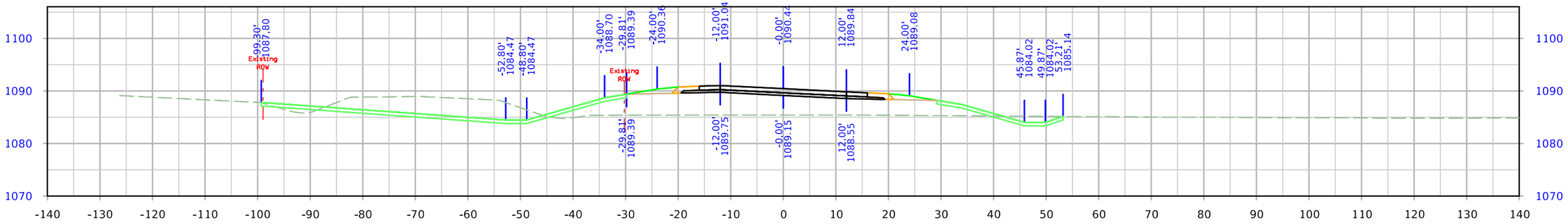



STA. 5039+50.00

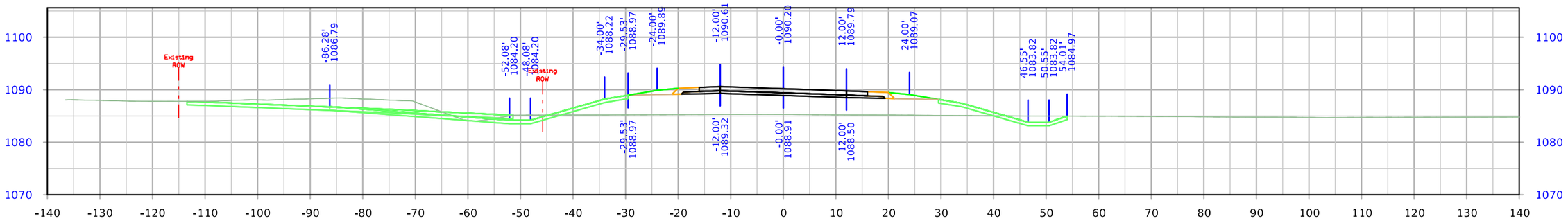
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3:12:00 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

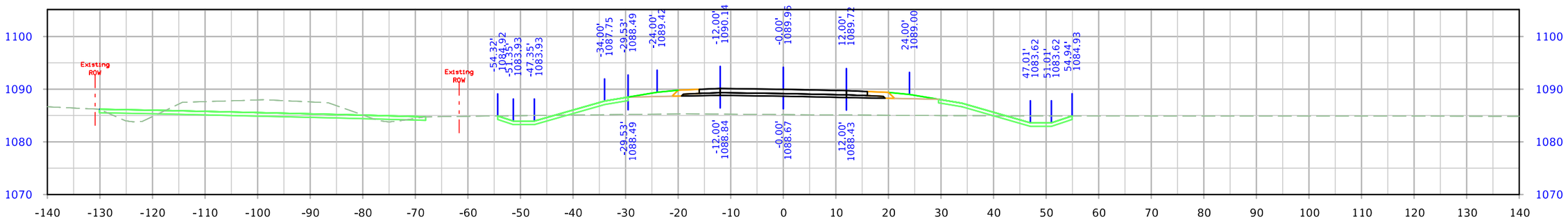
# 235th Street




STA. 5042+00.00




STA. 5041+50.00

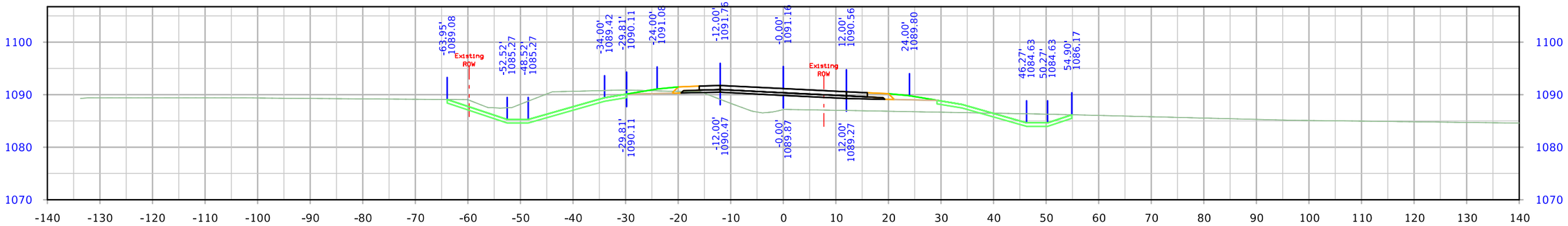



STA. 5041+00.00

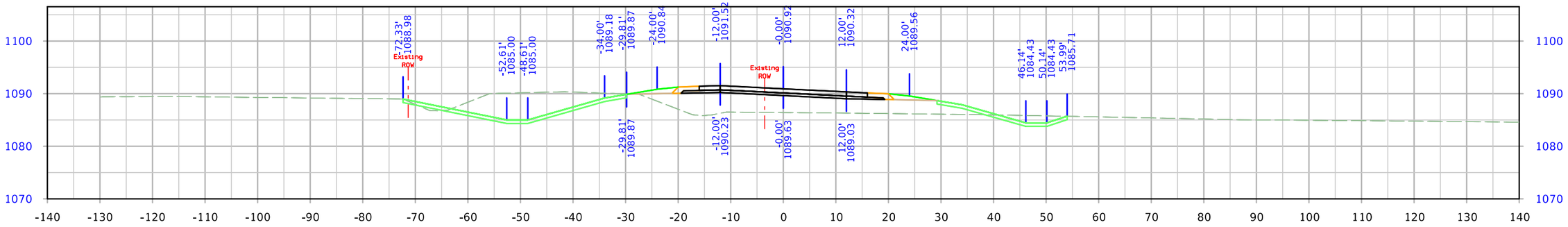
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3:12:03 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

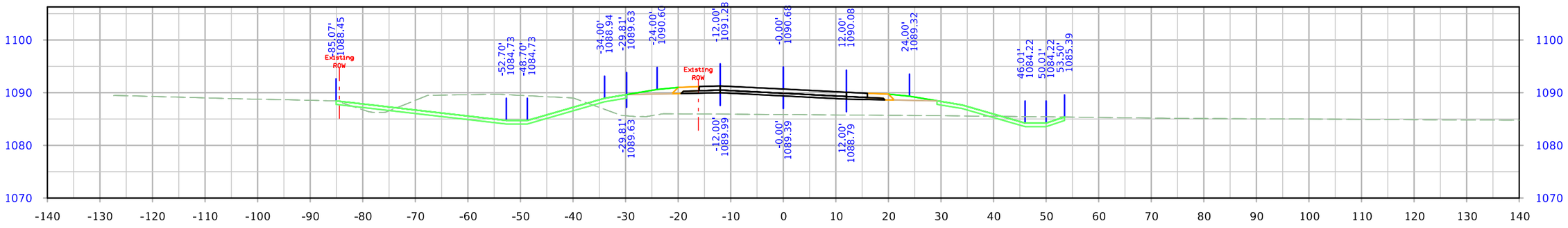
# 235th Street




STA. 5043+50.00




STA. 5043+00.00

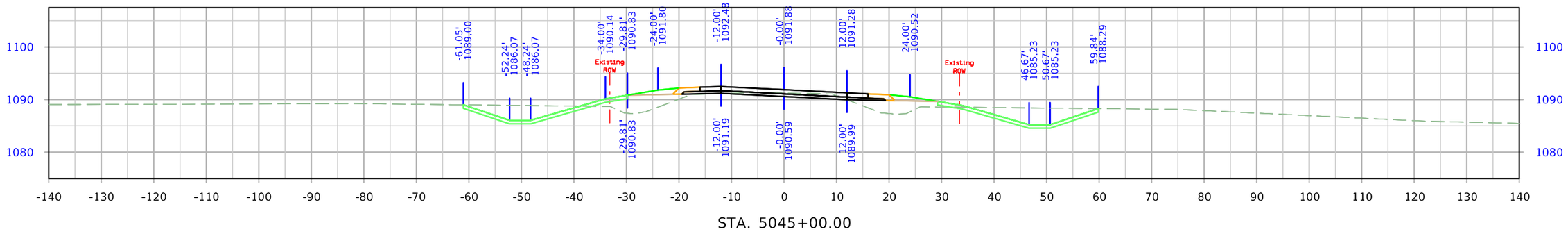



STA. 5042+50.00

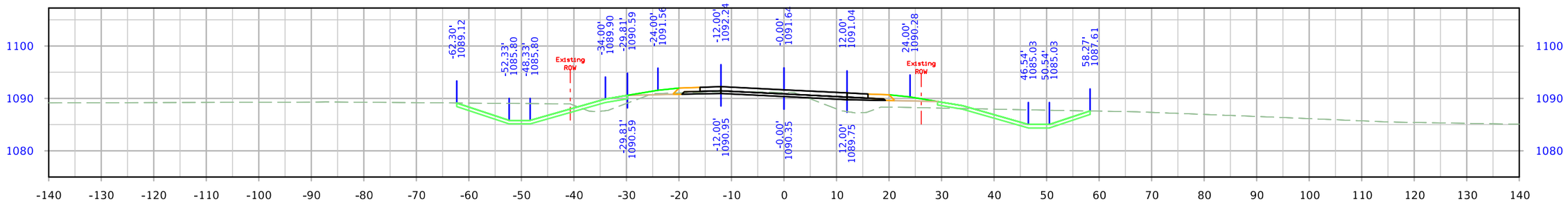
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.33 |
|---|---|---|---|---|---|

3:12:06 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

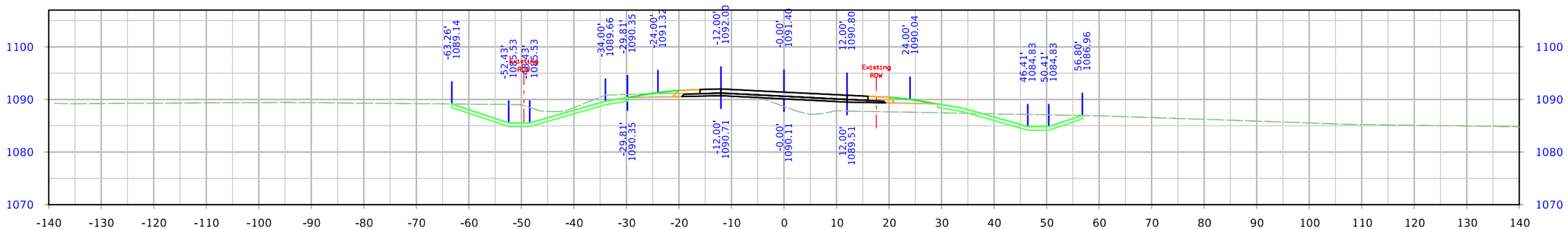
# 235th Street




STA. 5045+00.00




STA. 5044+50.00

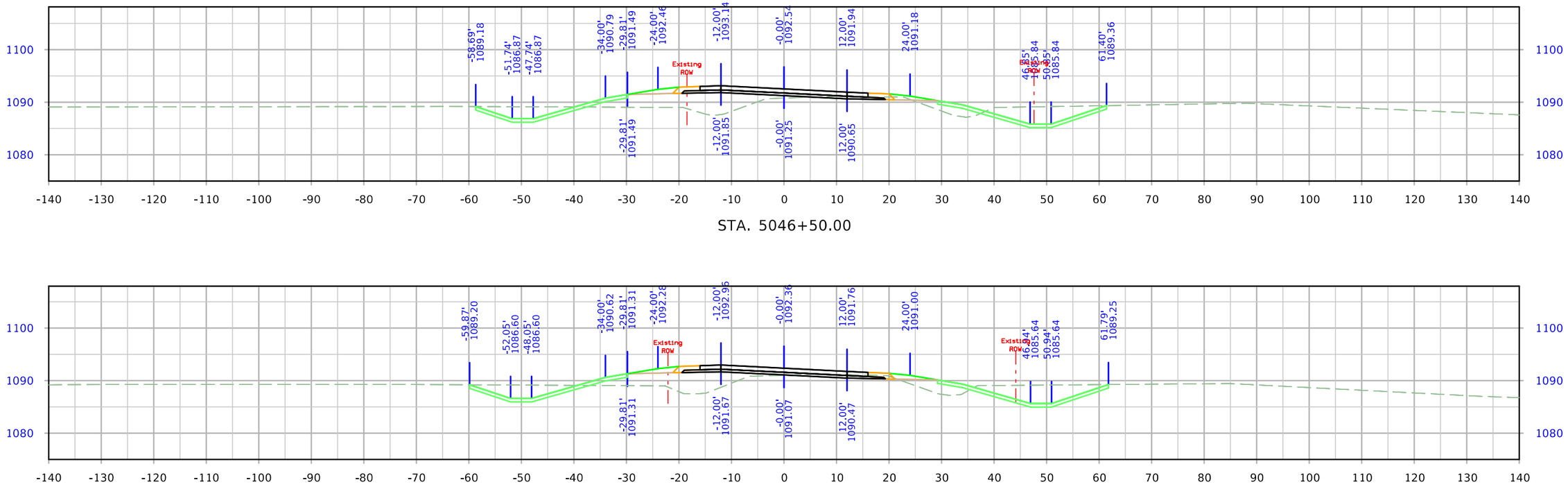



STA. 5044+00.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.34 |
|---|---|---|---|---|---|

3:12:09 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

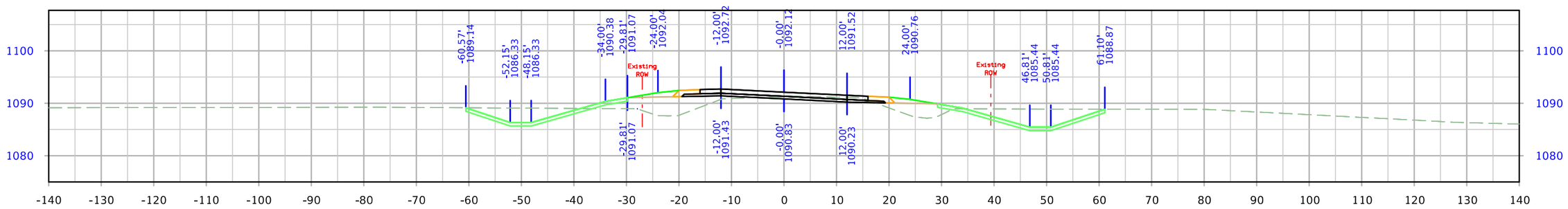
# 235th Street




STA. 5046+50.00




STA. 5046+00.00

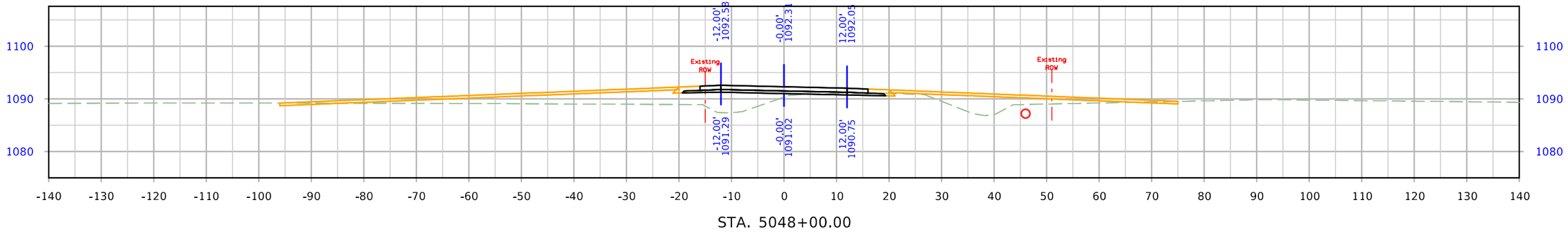



STA. 5045+50.00

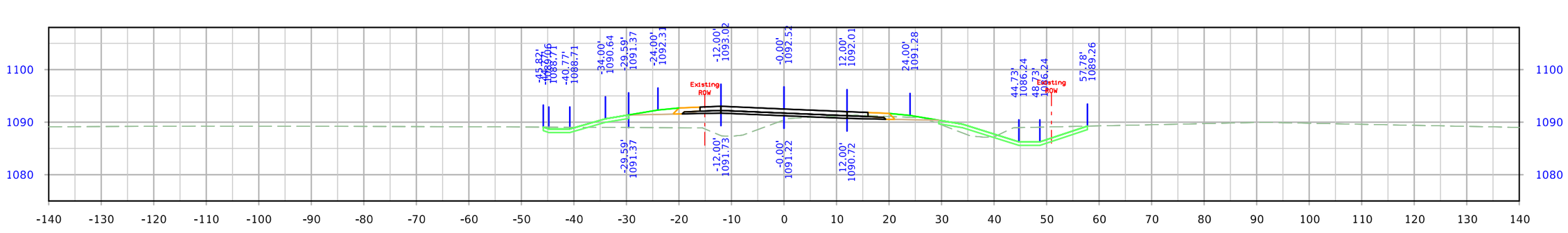
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.35 |
|---|---|---|---|---|---|

3:12:12 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

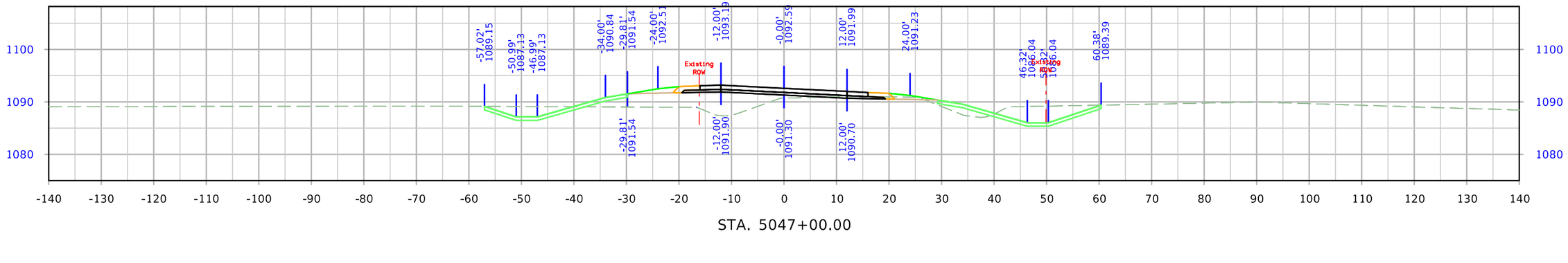
# 235th Street




STA. 5048+00.00




STA. 5047+50.00

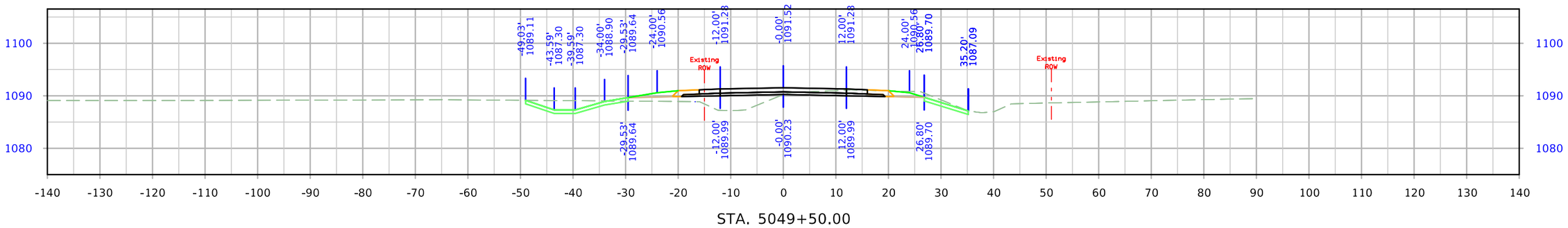



STA. 5047+00.00

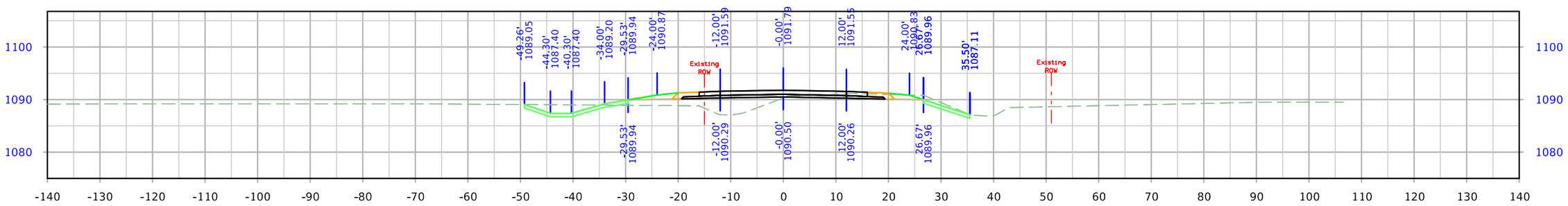
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.36 |
|---|---|---|---|---|---|

3:12:15 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

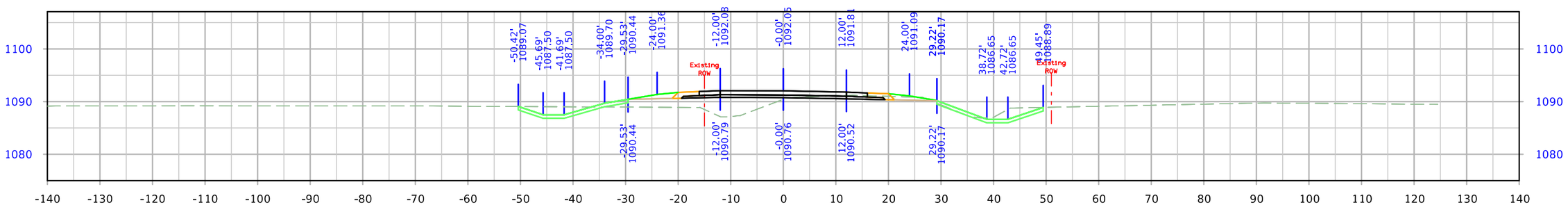
# 235th Street




STA. 5049+50.00




STA. 5049+00.00

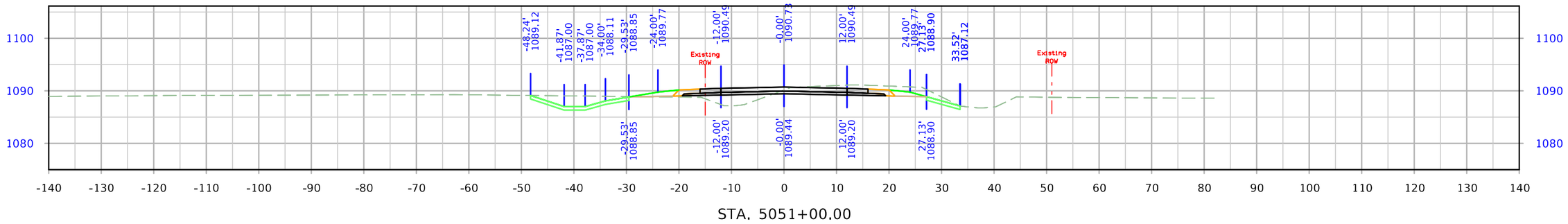



STA. 5048+50.00

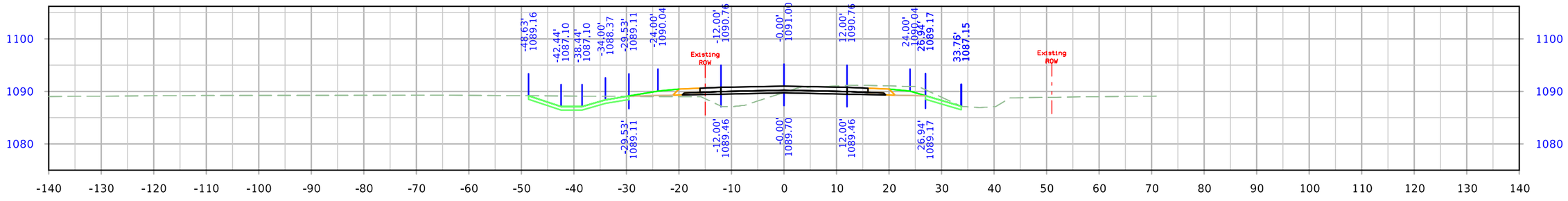
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.37 |
|---|---|---|---|---|---|

3:12:19 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

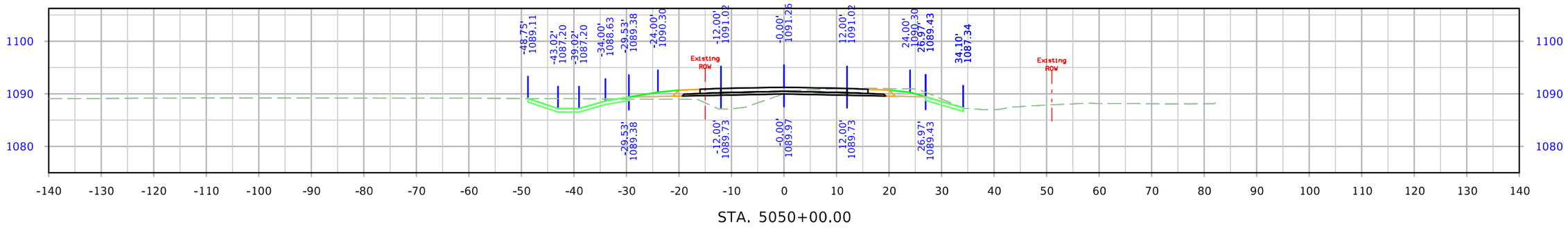
# 235th Street




STA. 5051+00.00




STA. 5050+50.00

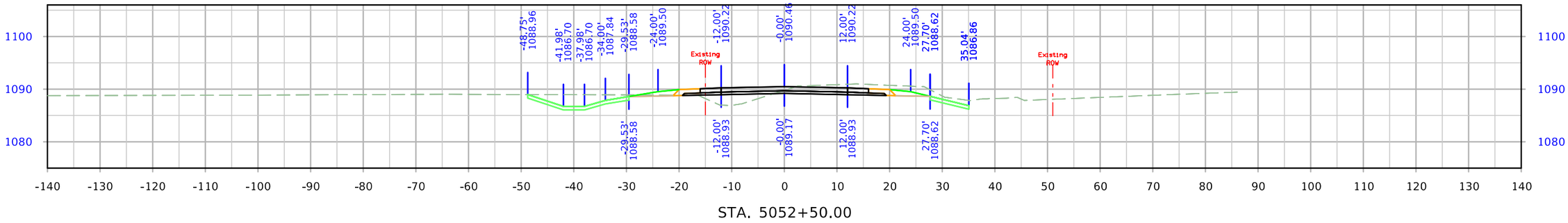



STA. 5050+00.00

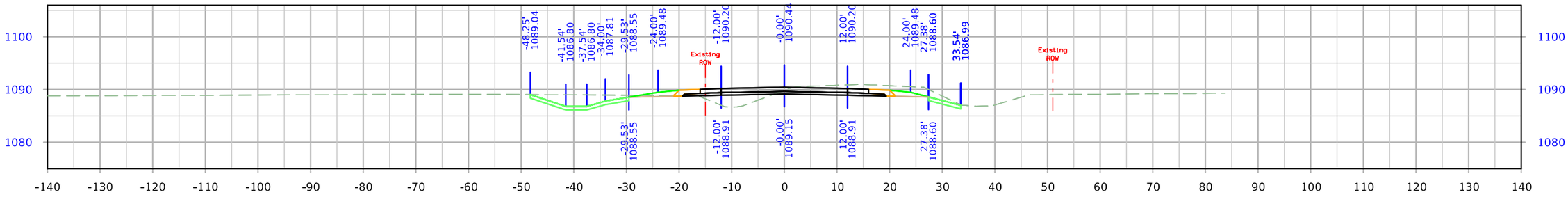
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.38 |
|---|---|---|---|---|---|

3:12:22 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

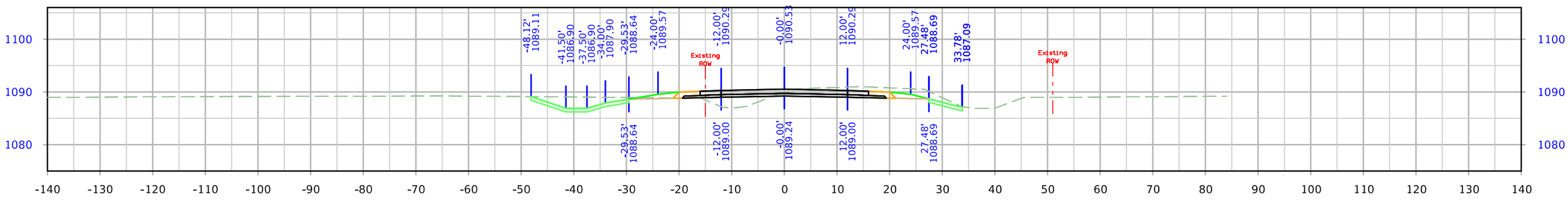
# 235th Street




STA. 5052+50.00




STA. 5052+00.00

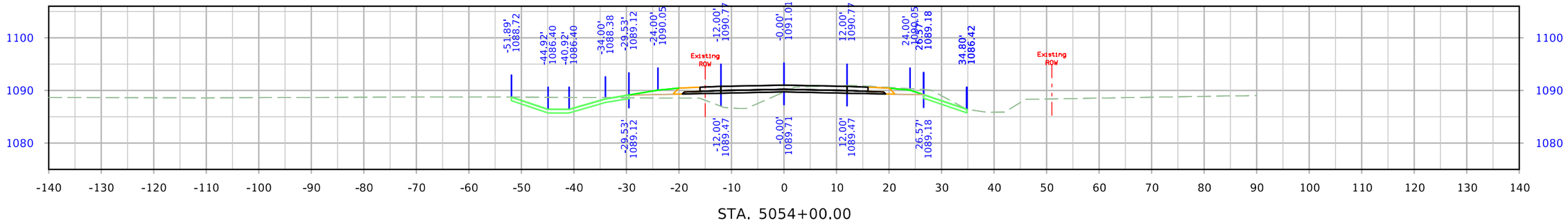



STA. 5051+50.00

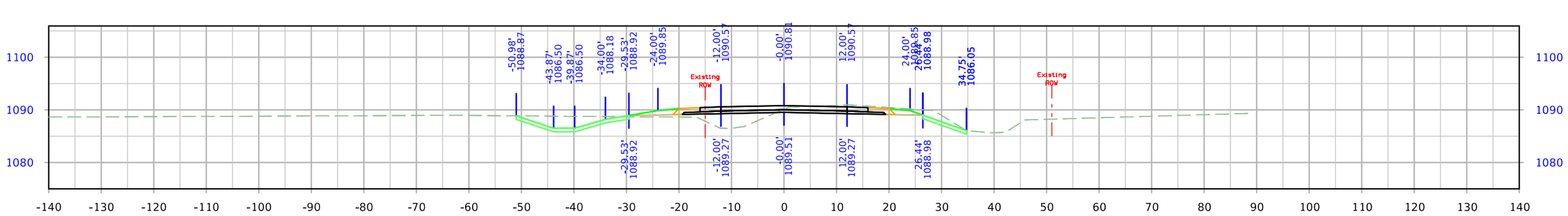
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.39 |
|---|---|---|---|---|---|

3:12:25 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

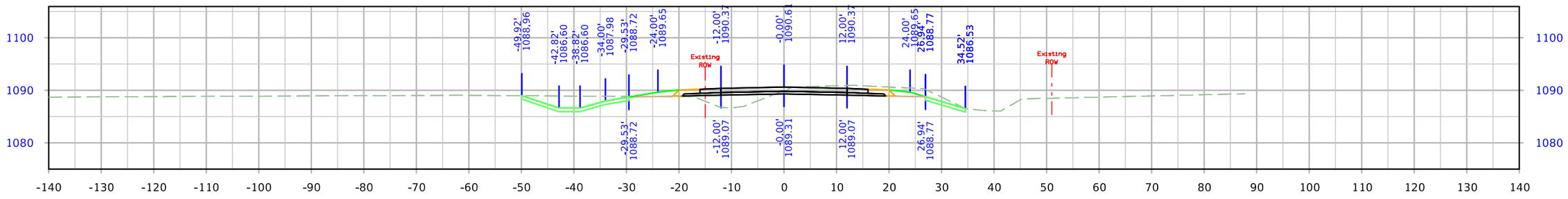
# 235th Street




STA. 5054+00.00




STA. 5053+50.00

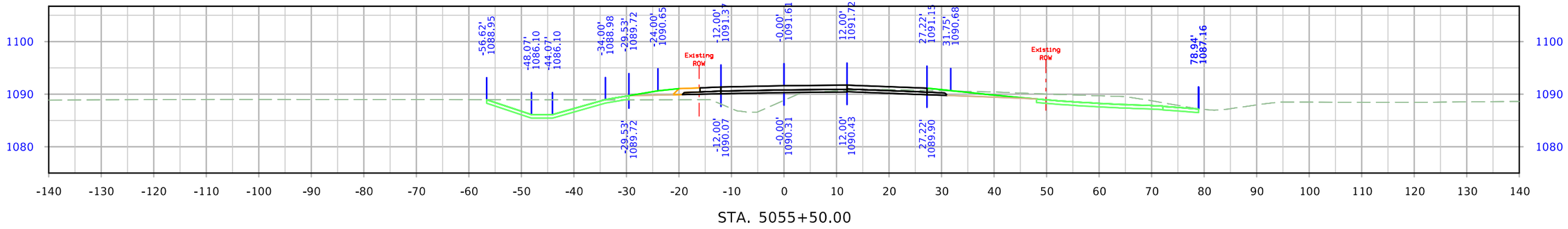



STA. 5053+00.00

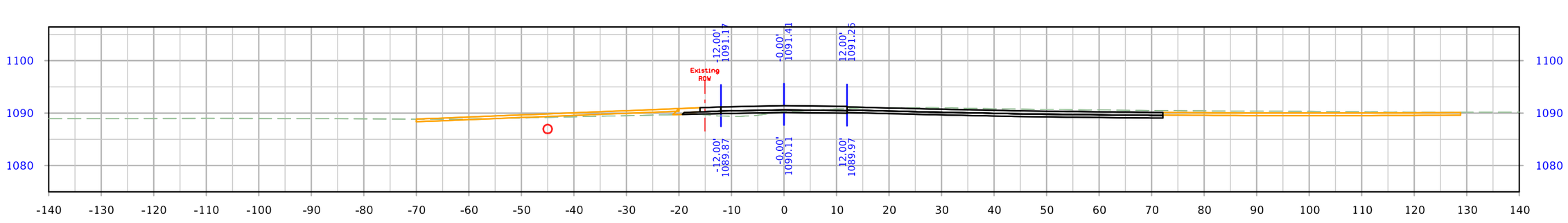
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.40 |
|---|---|---|---|---|---|

3:12:28 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

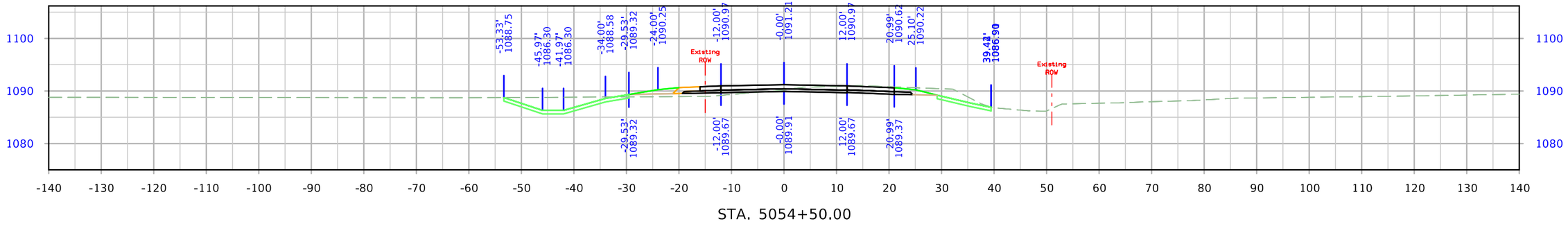
# 235th Street




STA. 5055+50.00




STA. 5055+00.00

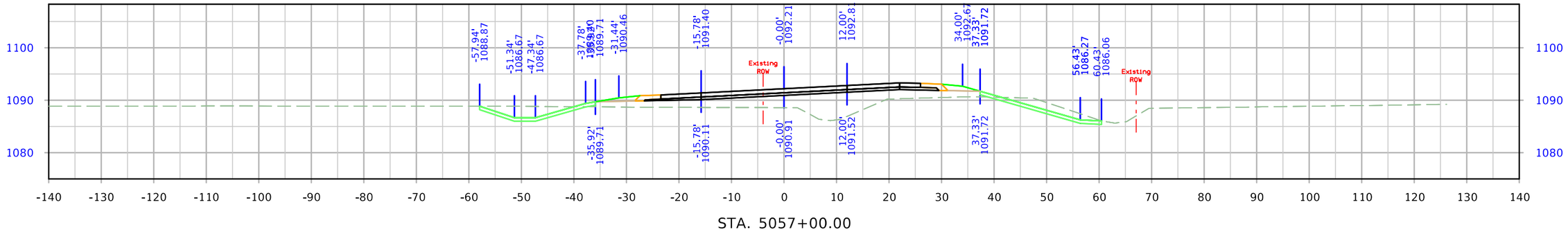



STA. 5054+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.41 |
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3:12:31 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

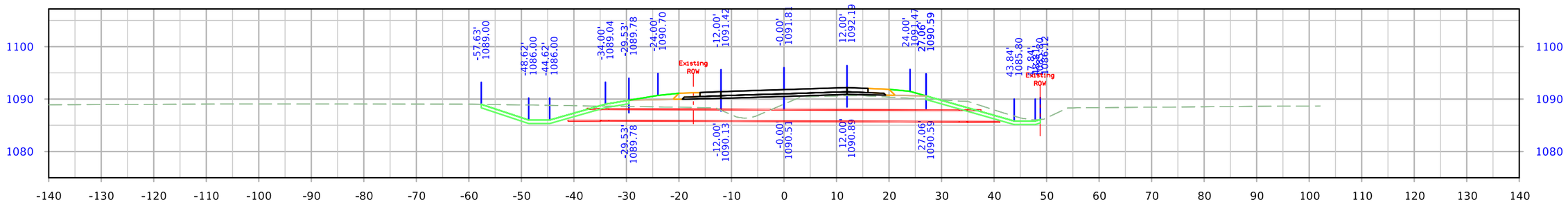
# 235th Street




STA. 5057+00.00



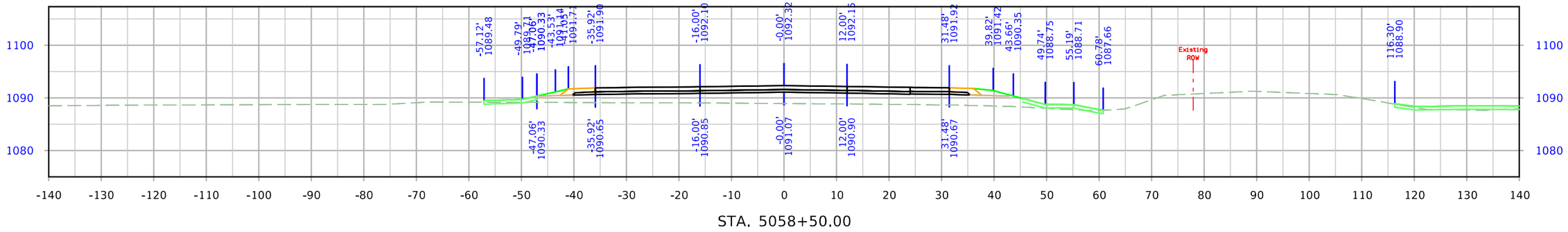

STA. 5056+50.00



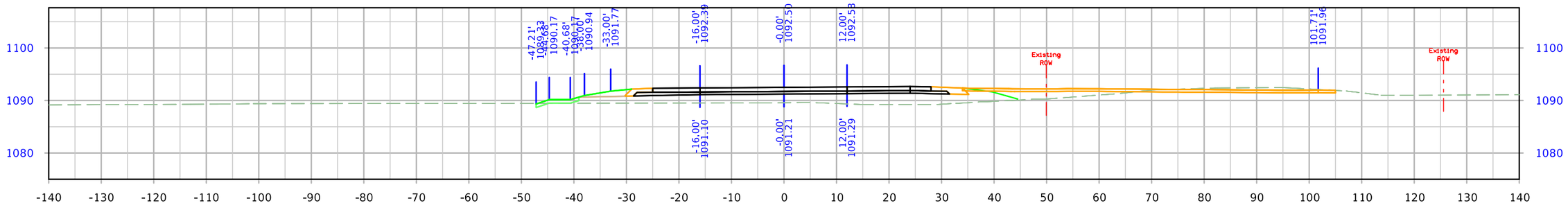

STA. 5056+00.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.42 |
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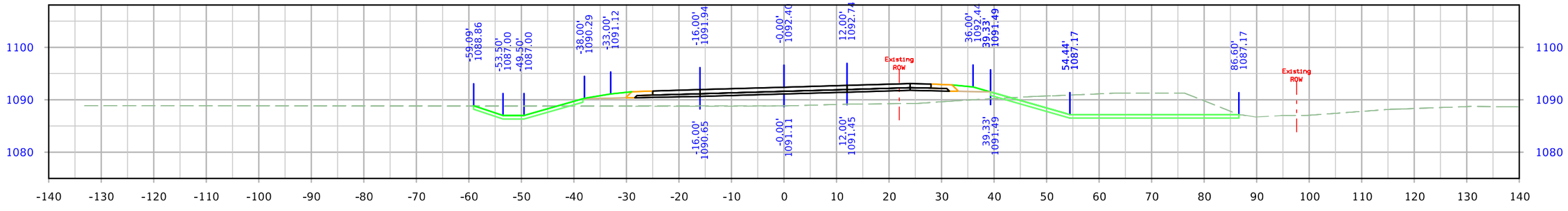
# 235th Street




STA. 5058+50.00




STA. 5058+00.00

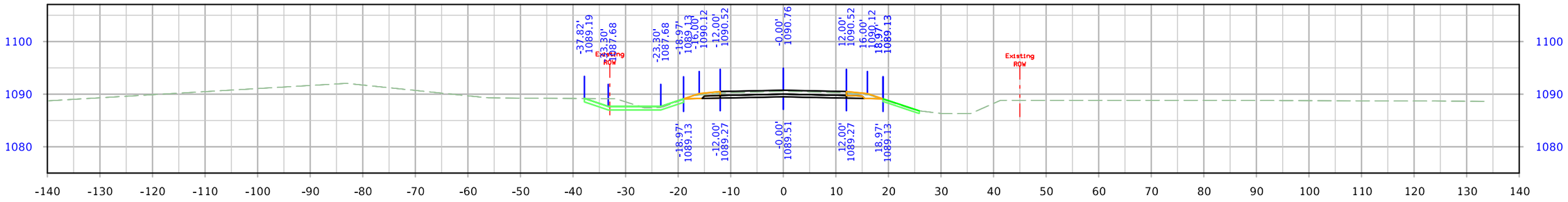



STA. 5057+50.00

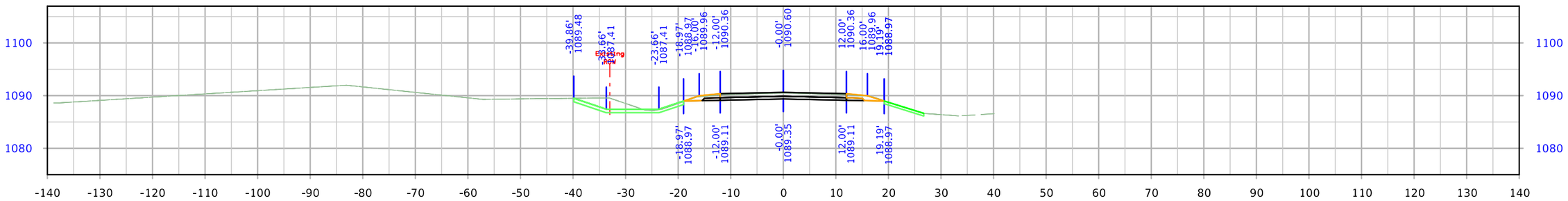
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.43 |
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3:12:38 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR235_97029278Z04.dgn

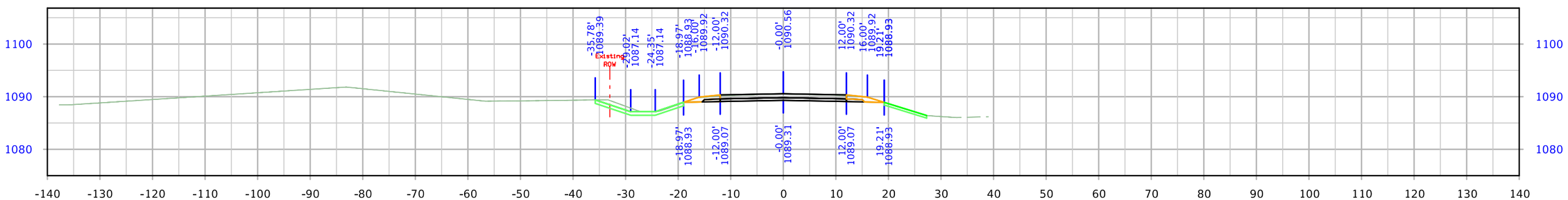
# Old US 75




STA. 336+50.00




STA. 336+00.00

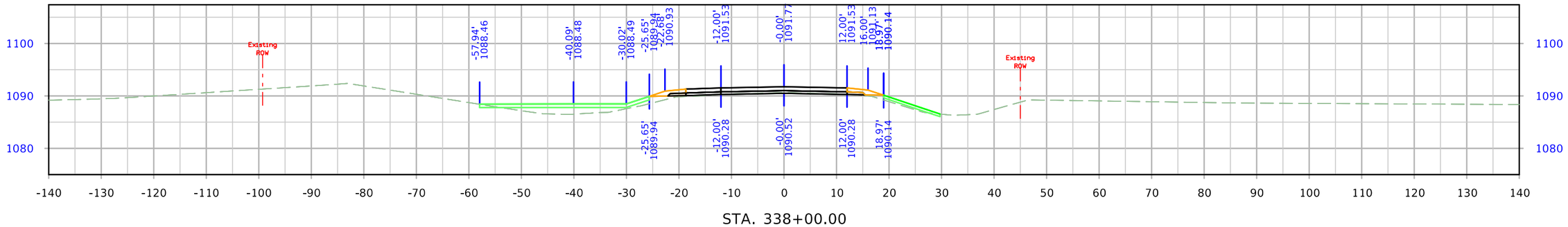



STA. 335+50.00

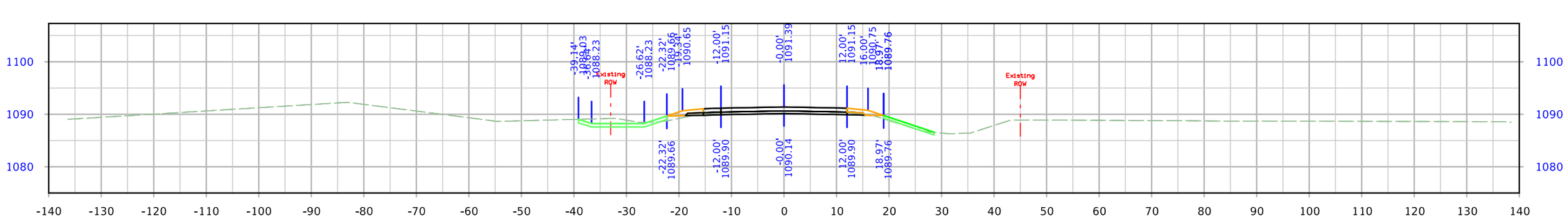
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.44 |
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9:37:45 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR075_97029278Z04.dgn

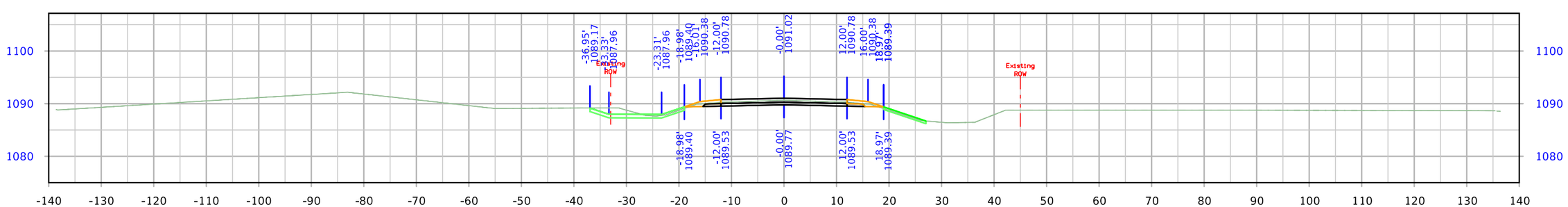
# Old US 75




STA. 338+00.00




STA. 337+50.00

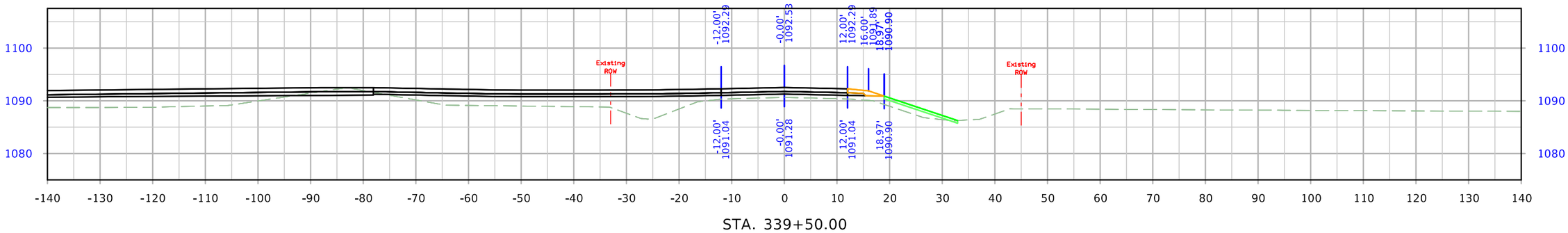



STA. 337+00.00

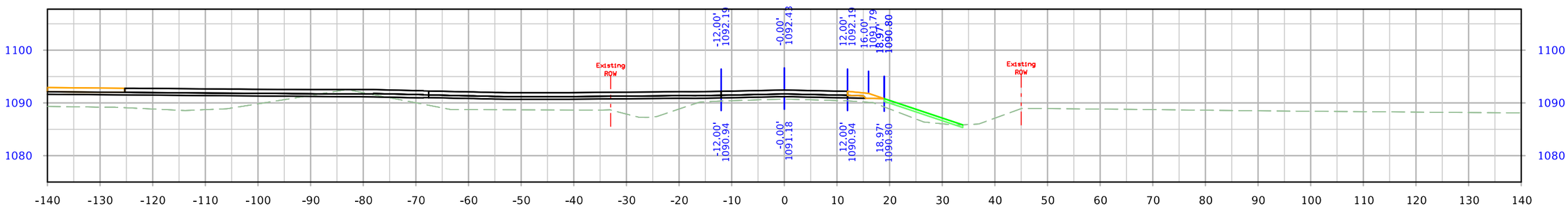
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.45 |
|---|---|---|---|---|---|

9:37:48 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR075_97029278Z04.dgn

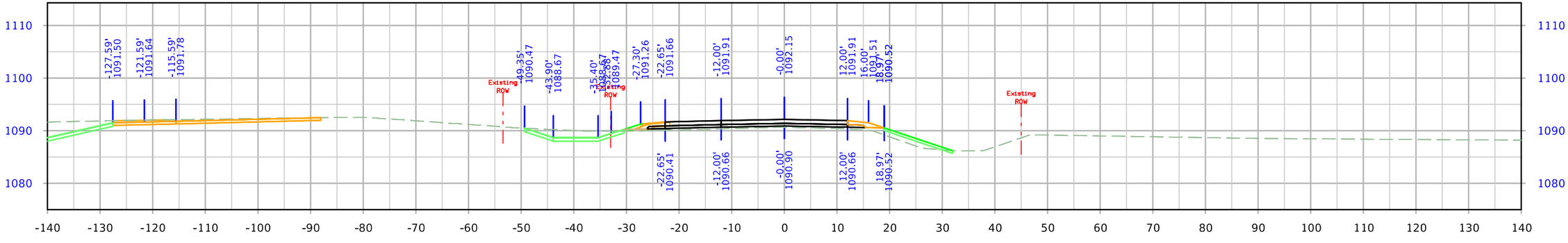
# Old US 75




STA. 339+50.00




STA. 339+00.00

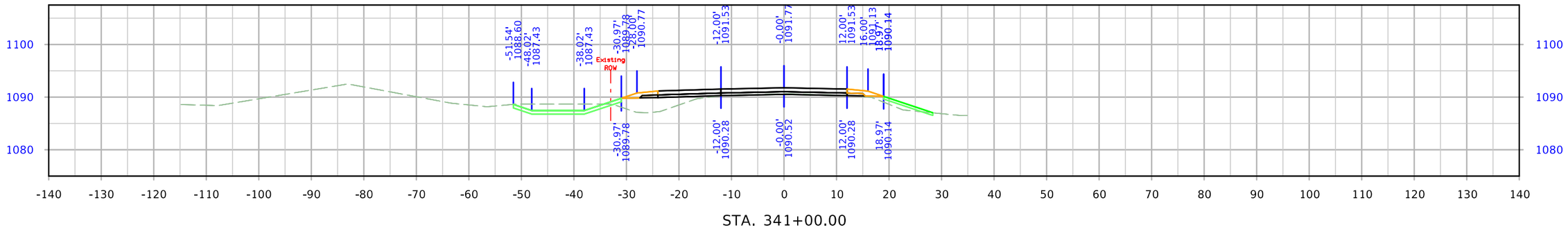



STA. 338+50.00

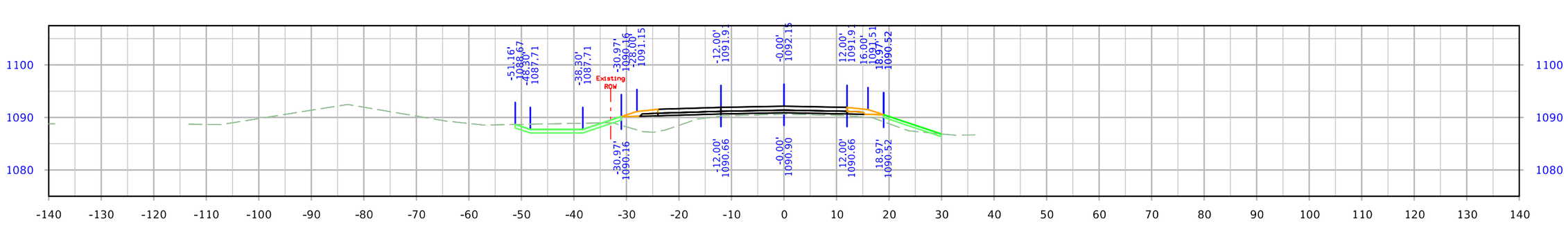
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.46 |
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9:37:50 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR075_97029278Z04.dgn

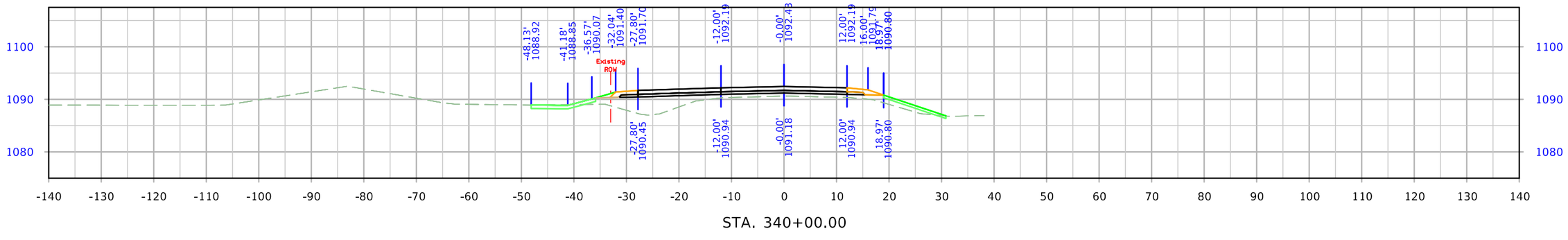
# Old US 75




STA. 341+00.00




STA. 340+50.00

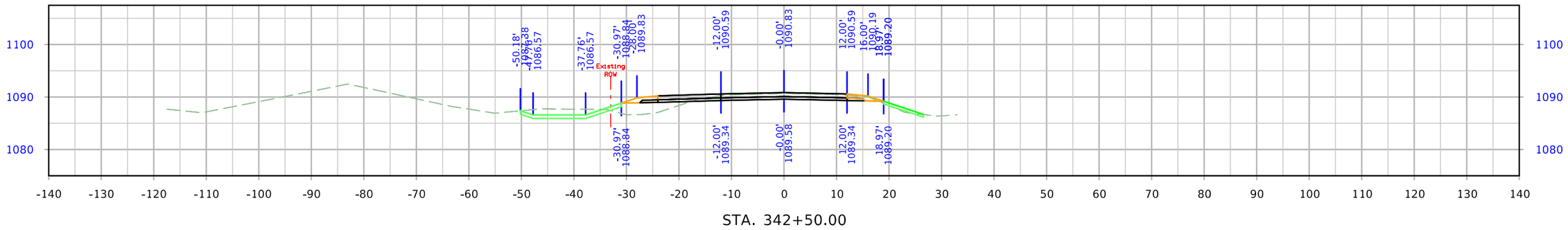



STA. 340+00.00

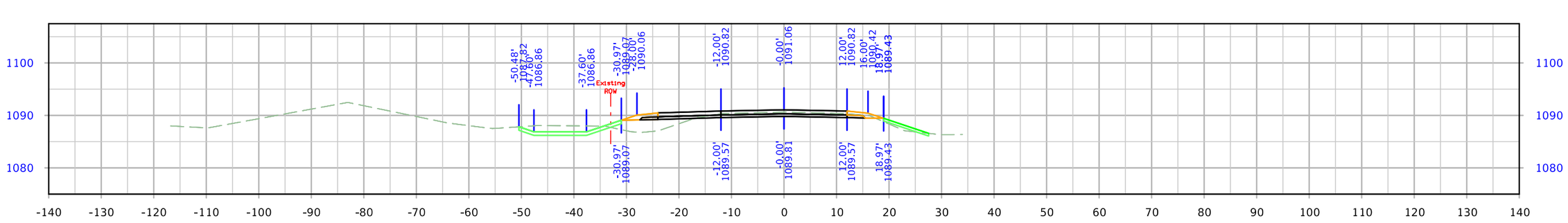
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.47 | |
|---|---|---|---|---|---|---|

9:37:52 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR075_97029278Z04.dgn

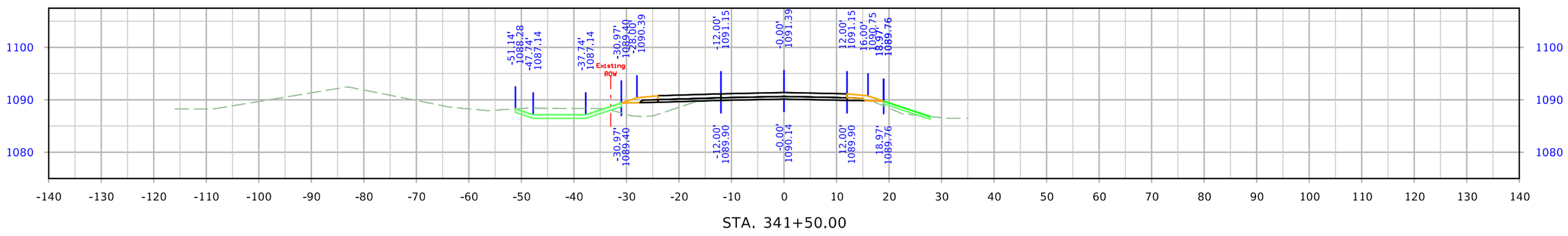
# Old US 75




STA. 342+50.00




STA. 342+00.00

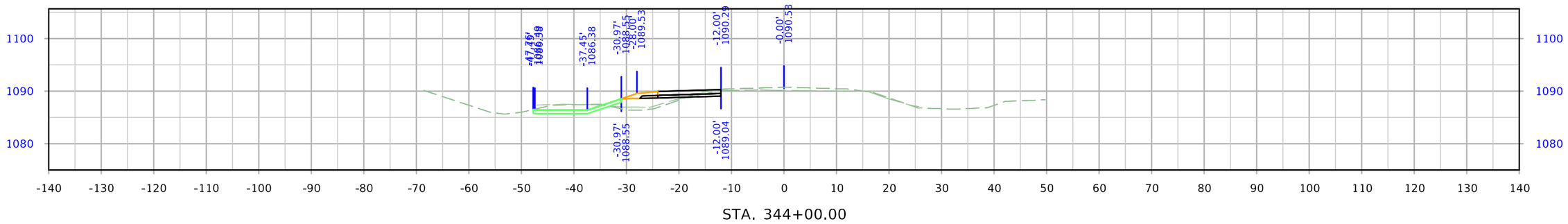



STA. 341+50.00

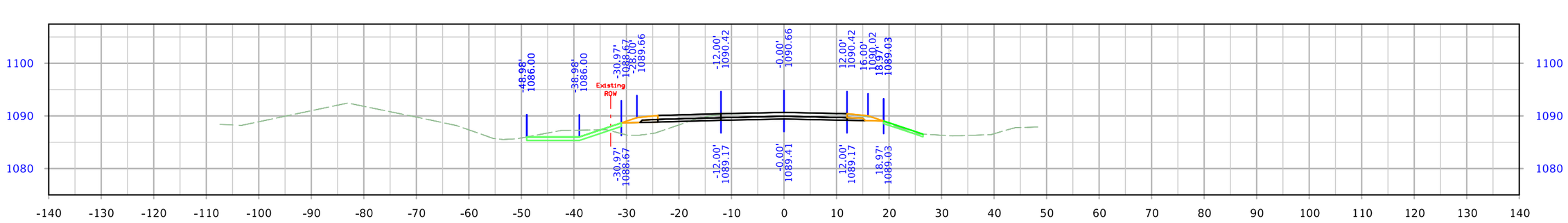
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.48 |
|---|---|---|---|---|---|

9:37:53 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR075_97029278Z04.dgn

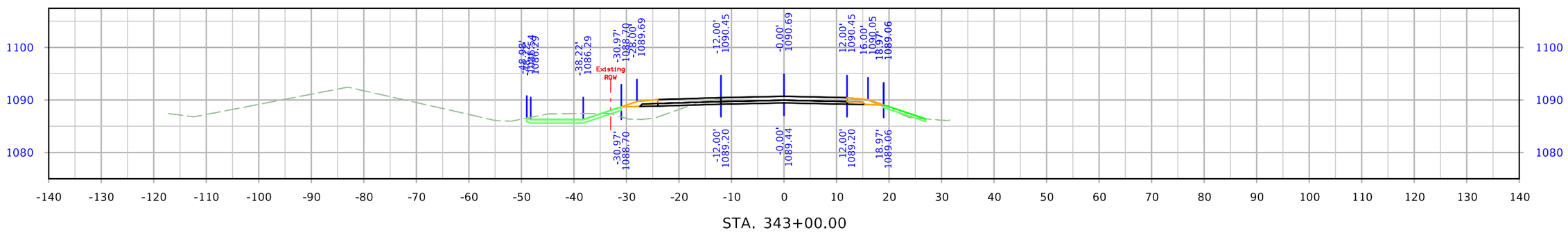
# Old US 75




STA. 344+00.00




STA. 343+50.00

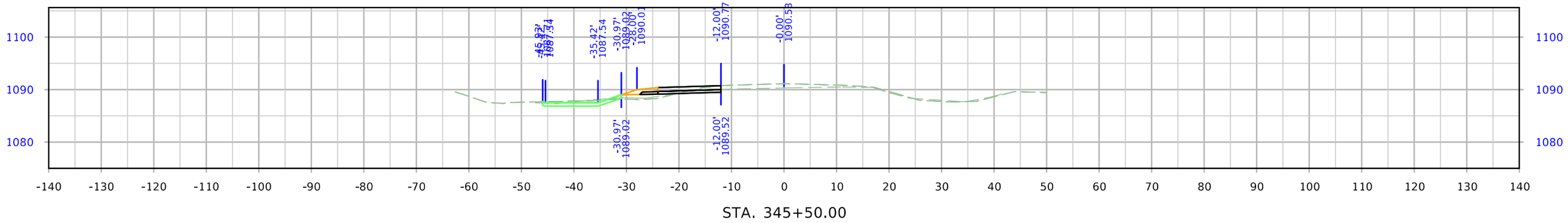



STA. 343+00.00

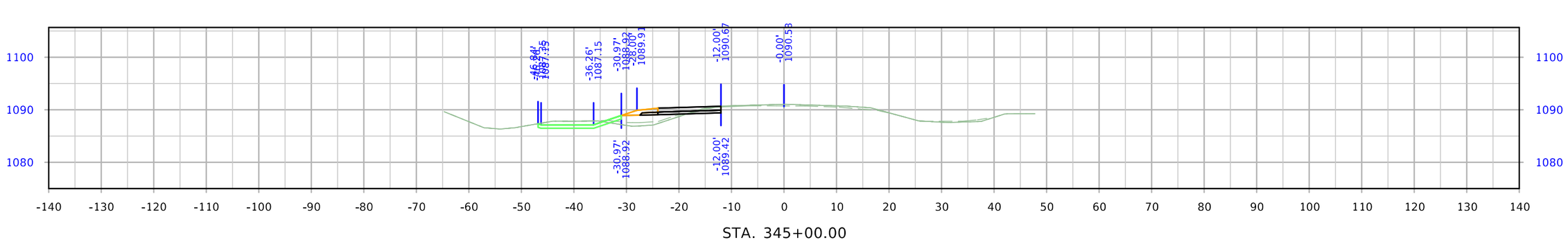
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.49 |
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9:37:55 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR075_97029278Z04.dgn

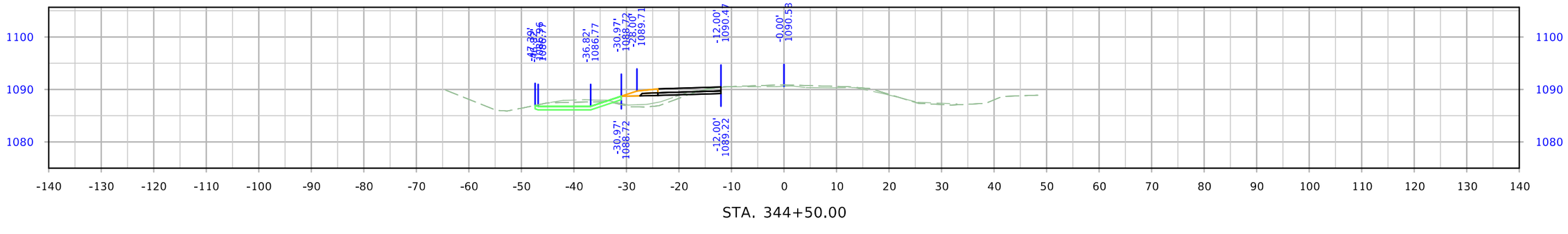
# Old US 75




STA. 345+50.00




STA. 345+00.00

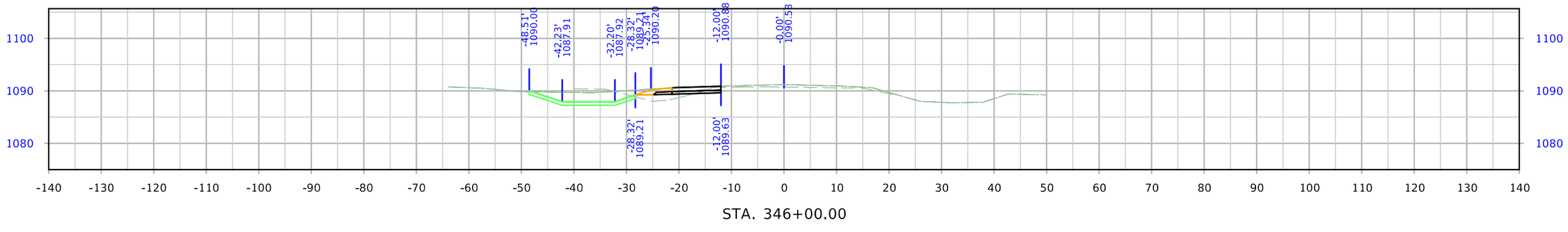



STA. 344+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.50 |
|---|---|---|---|---|---|

9:37:57 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR075_97029278Z04.dgn

Old US 75

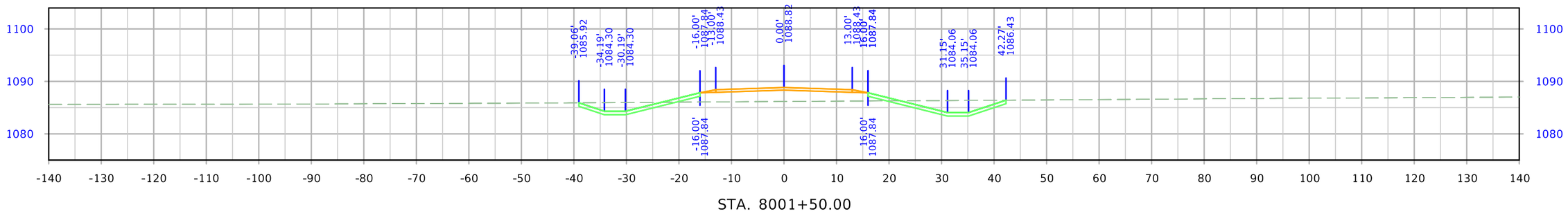



STA. 346+00.00

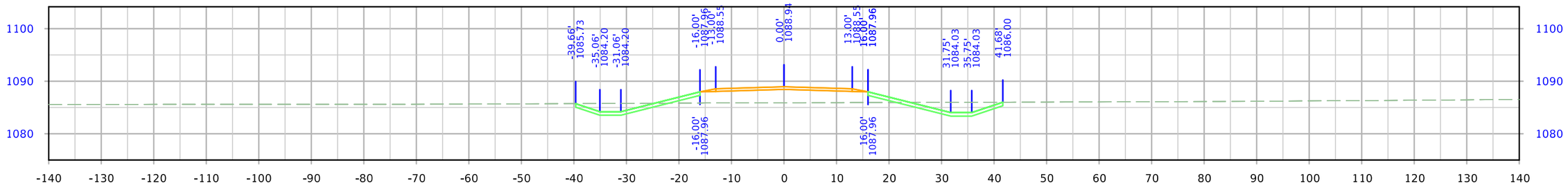
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.51 |
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9:37:59 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SR075_97029278Z04.dgn

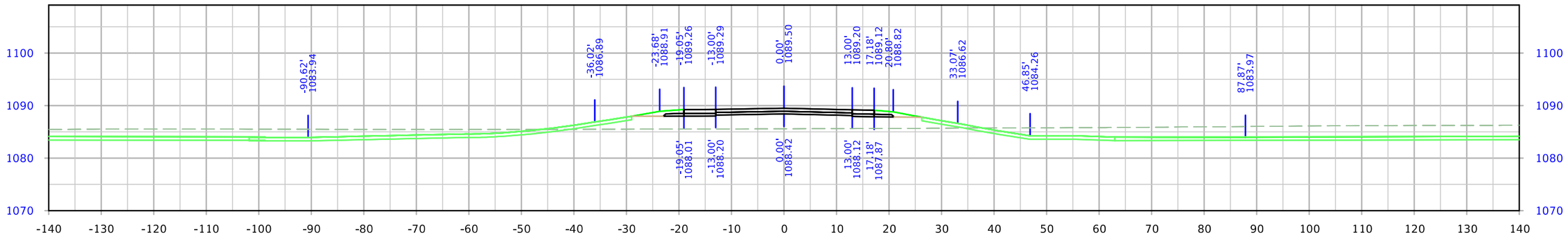
# Banner Avenue




STA. 8001+50.00




STA. 8001+00.00

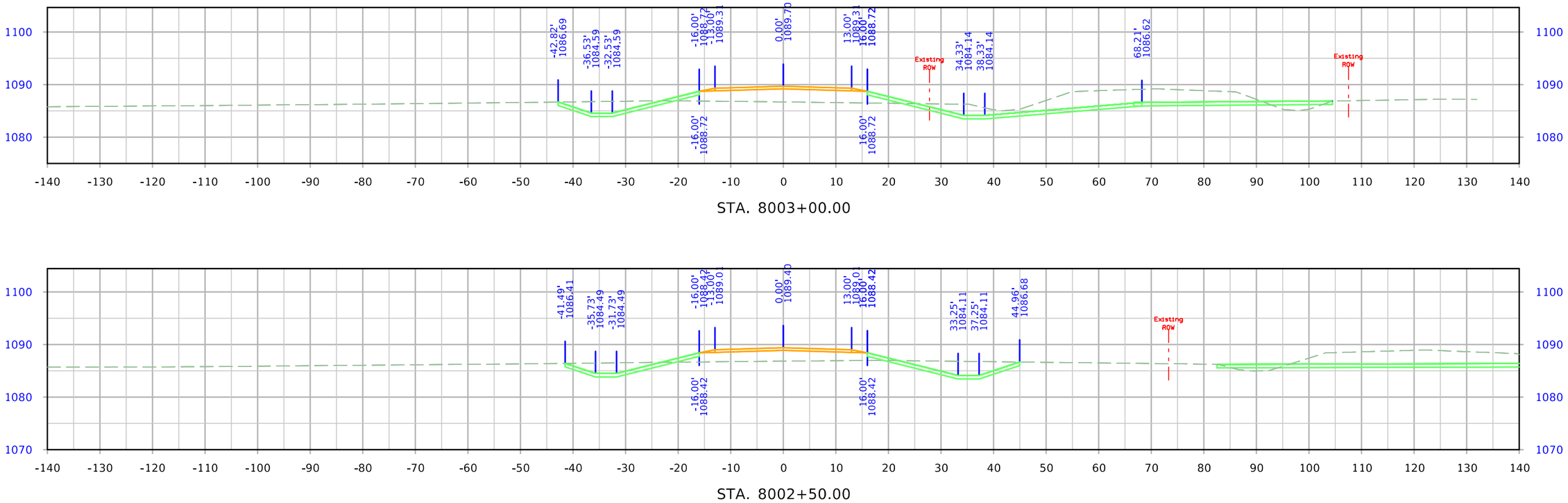



STA. 8000+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.52 |
|---|---|---|---|---|---|

9:38:16 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SRBANNER_97029278Z04.dgn

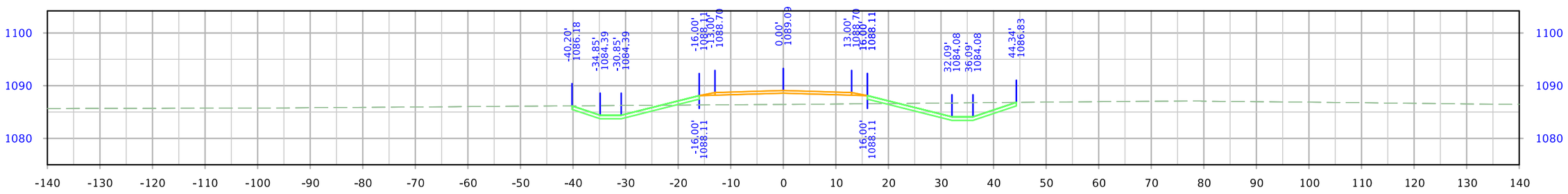
# Banner Avenue




STA. 8003+00.00




STA. 8002+50.00

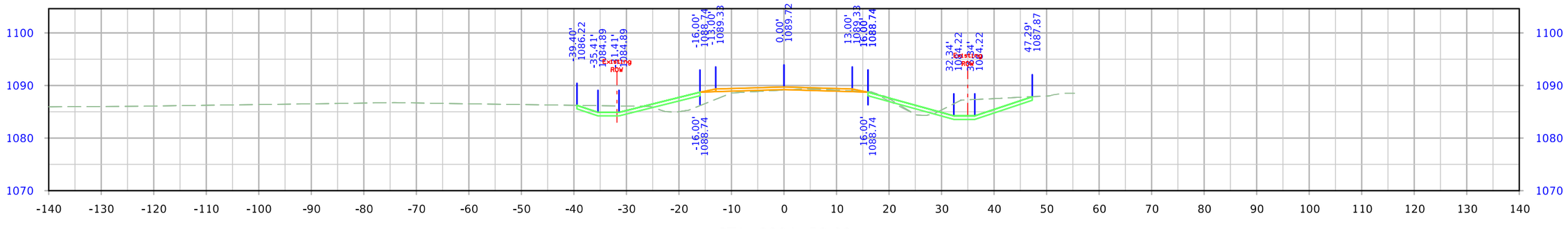



STA. 8002+00.00

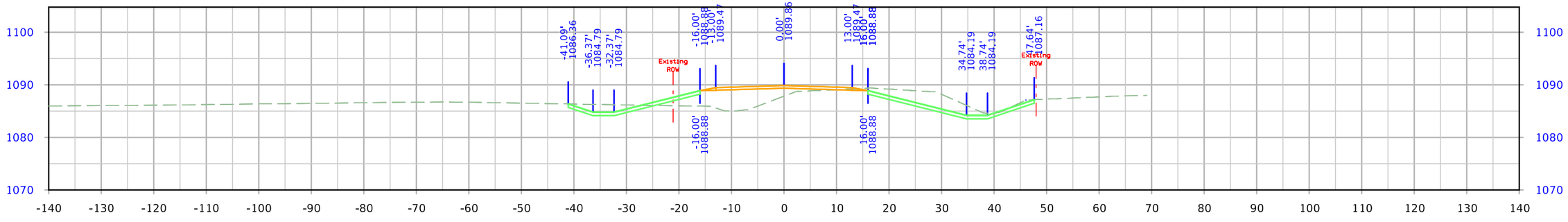
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.53 |
|---|---|---|---|---|---|

9:38:18 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SRBANNER_97029278Z04.dgn

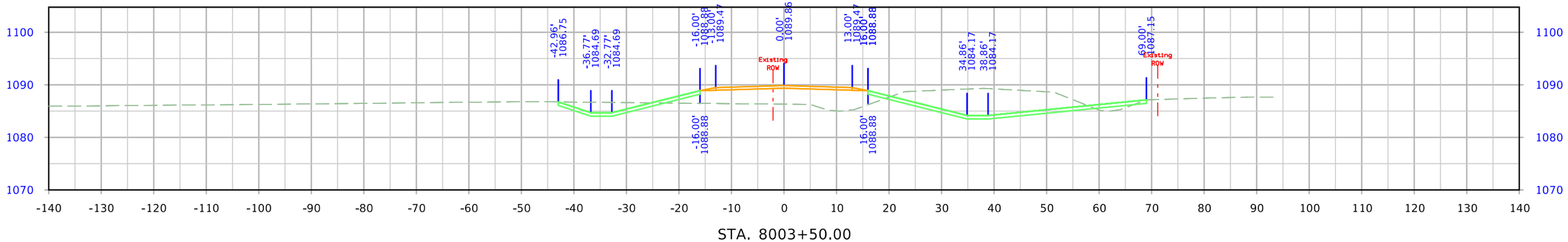
# Banner Avenue




STA. 8004+50.00




STA. 8004+00.00

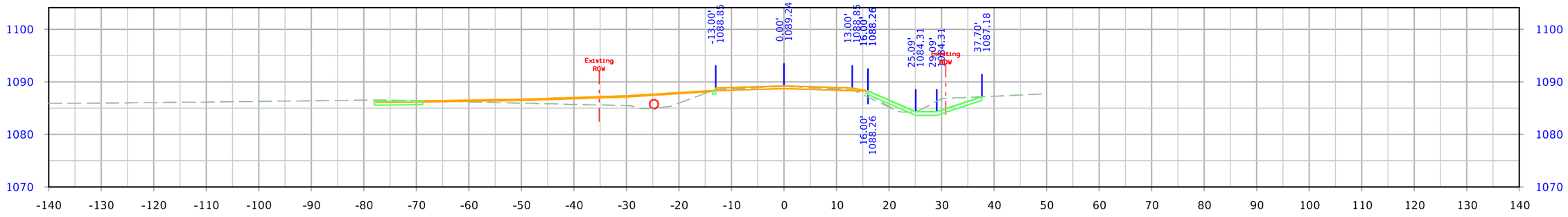



STA. 8003+50.00

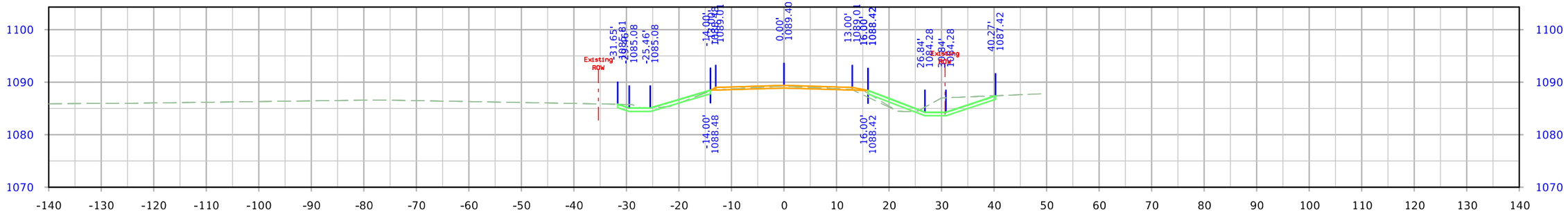
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.54 |
|---|---|---|---|---|---|

9:38:21 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SRBANNER_97029278Z04.dgn

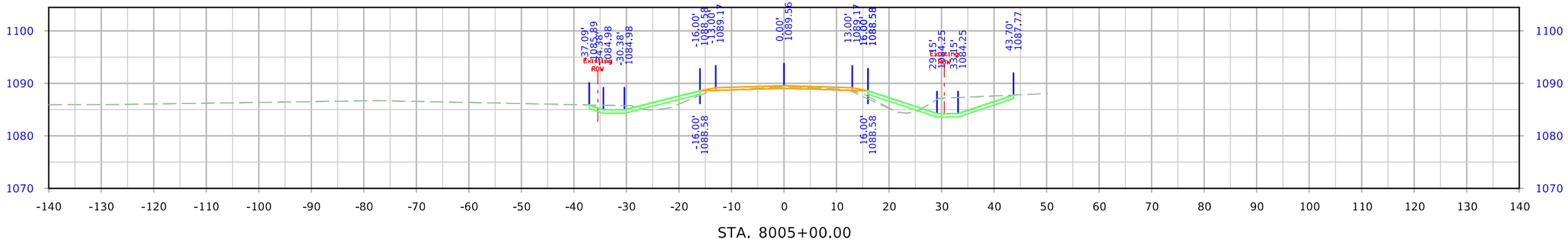
# Banner Avenue




STA. 8006+00.00




STA. 8005+50.00

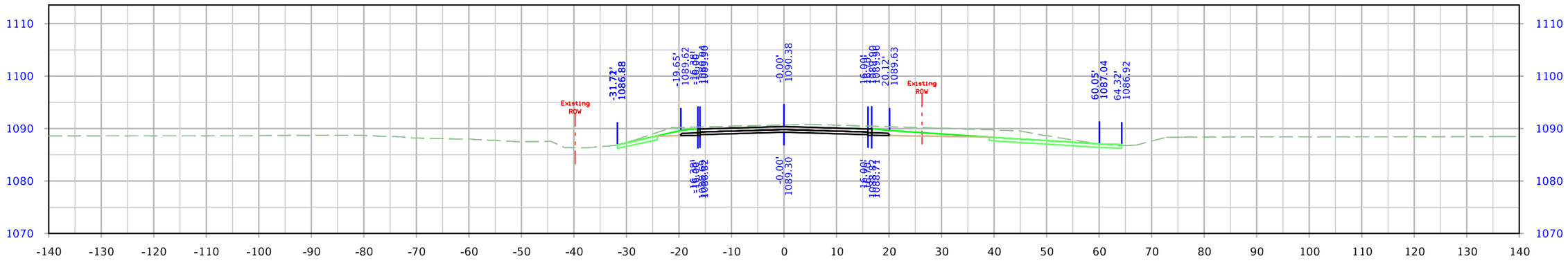



STA. 8005+00.00

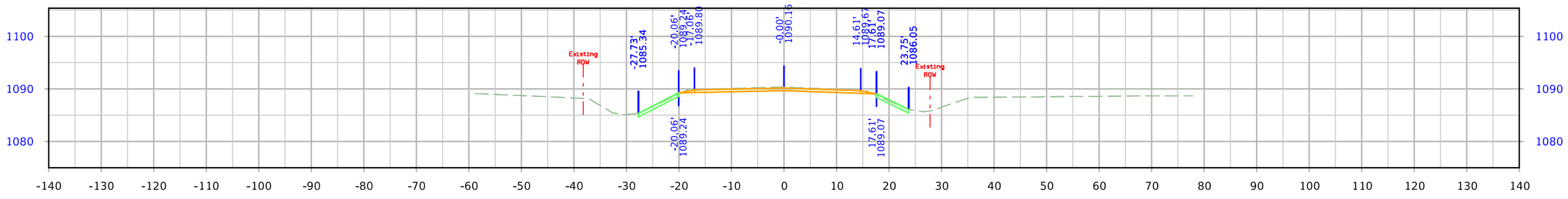
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.55 |
|---|---|---|---|---|---|

9:38:23 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SRBANNER_9702927804.dgn

# Barker Avenue




STA. 9002+50.00

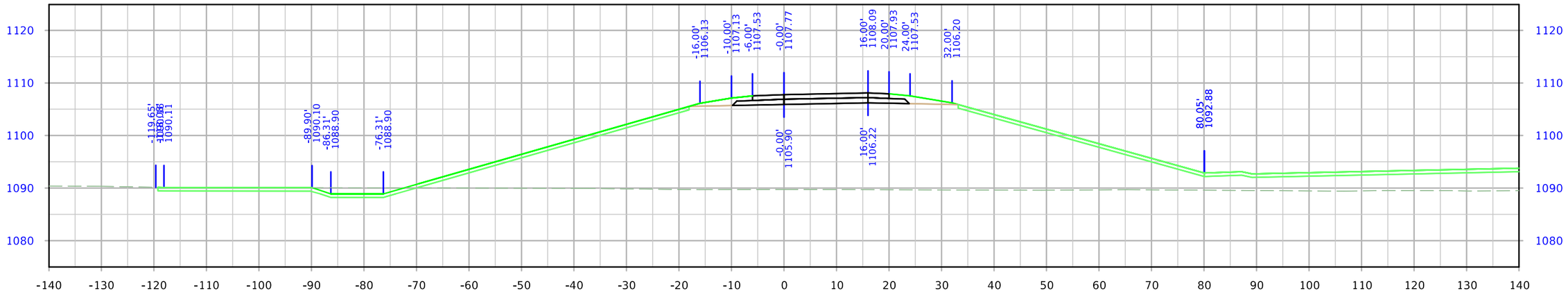



STA. 9002+00.00

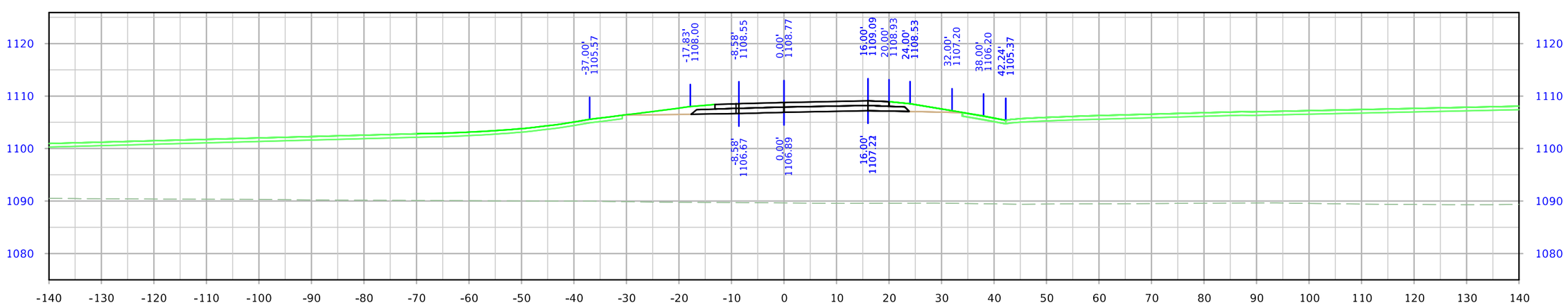
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER X.56 |
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9:38:39 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_SRBARKER_97029278Z04.dgn

# I-29 Ramp A




STA. 1001+00.00

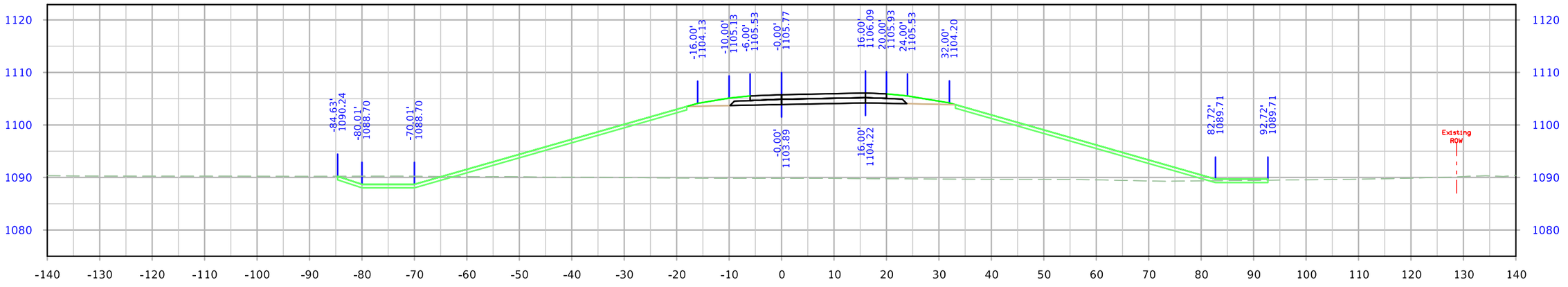



STA. 1000+50.00

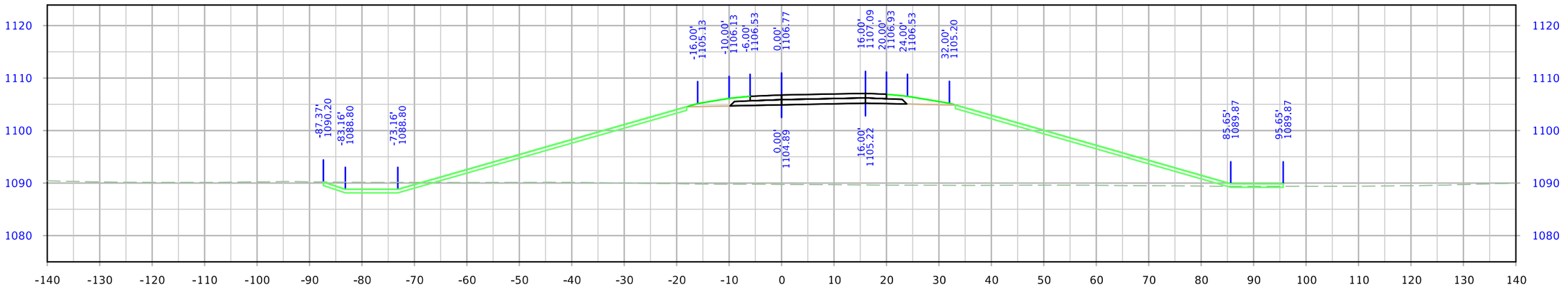
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.1 |
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3:50:01 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPA_97029278Z04.dgn

# I-29 Ramp A




STA. 1002+00.00

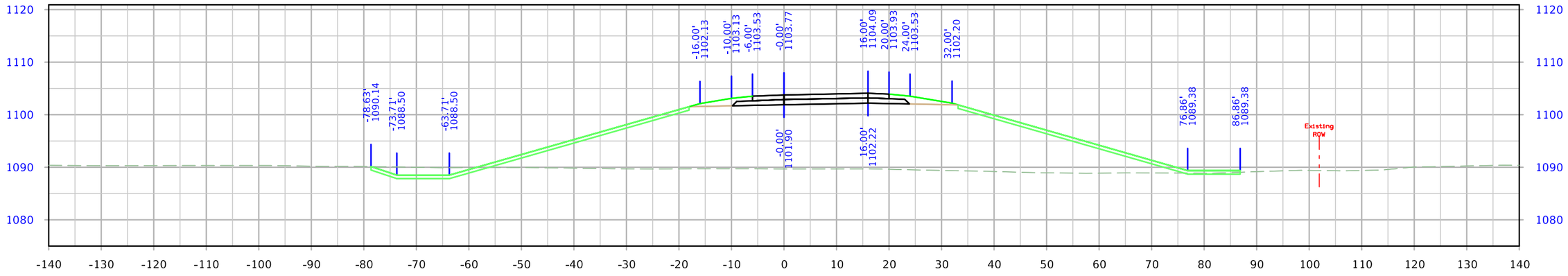



STA. 1001+50.00

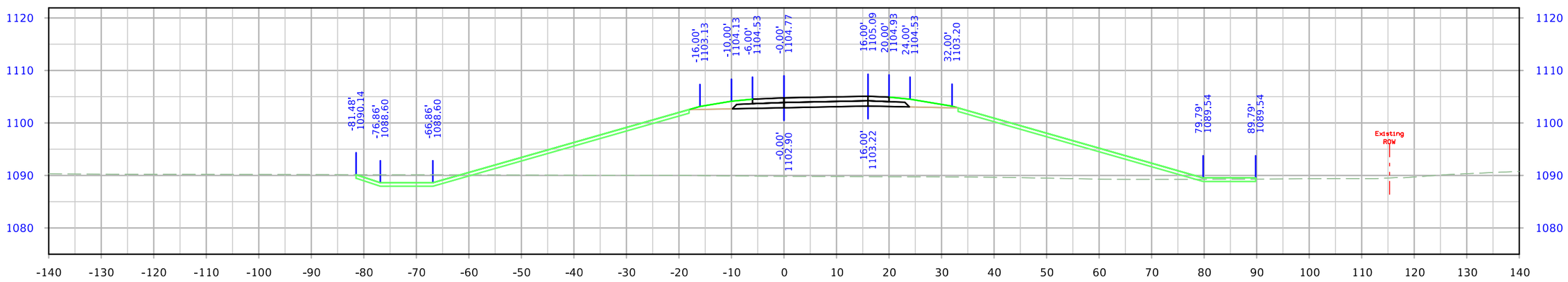
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.2 |
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9:38:58 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPA_97029278Z04.dgn

# I-29 Ramp A




STA. 1003+00.00

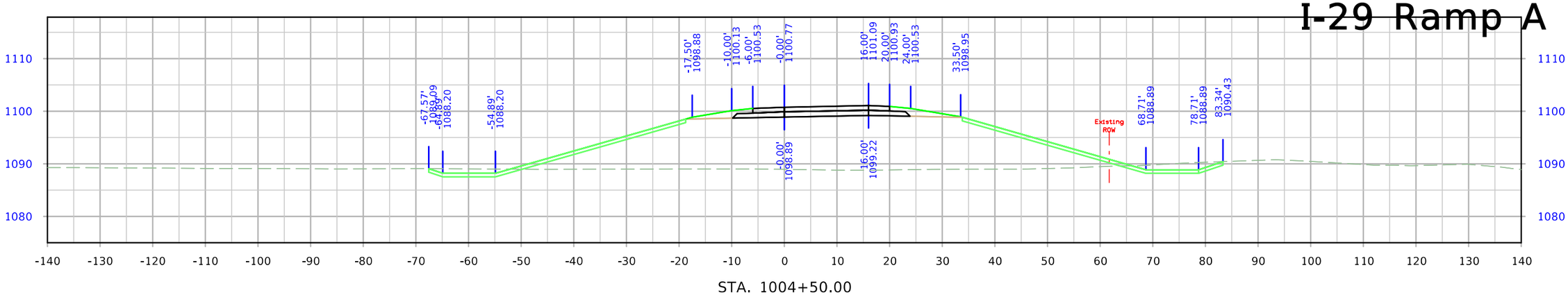



STA. 1002+50.00

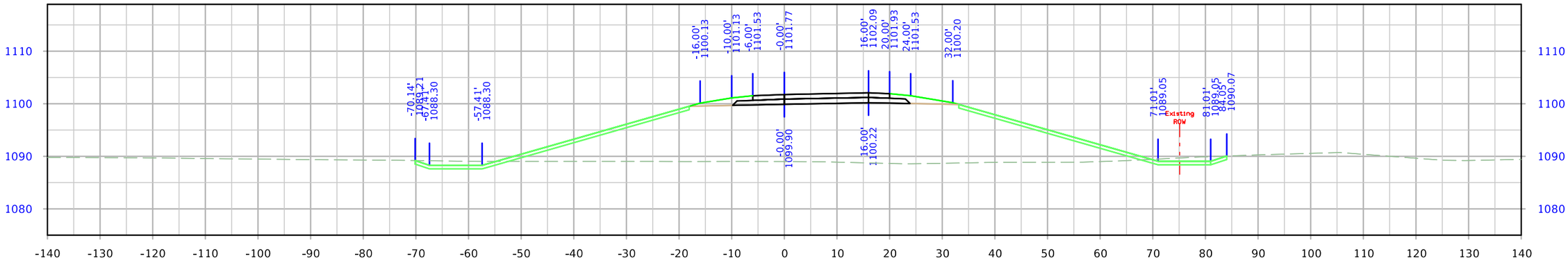
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9:39:00 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPA_97029278Z04.dgn

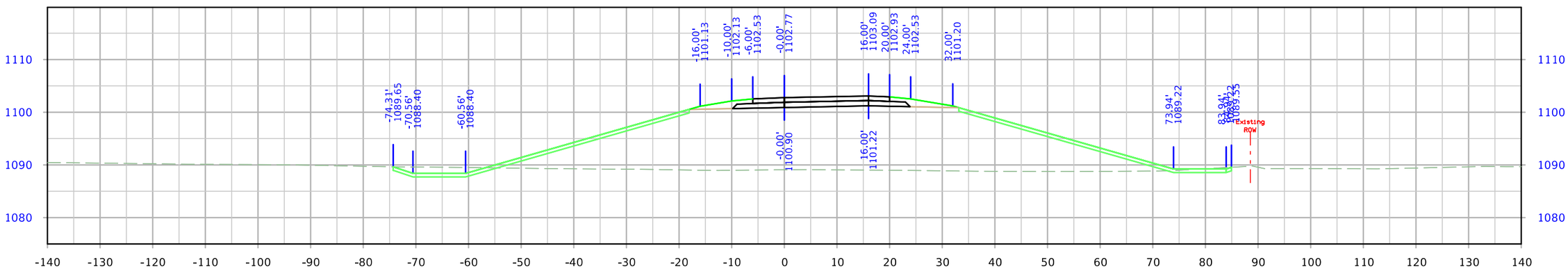
# I-29 Ramp A




STA. 1004+50.00




STA. 1004+00.00

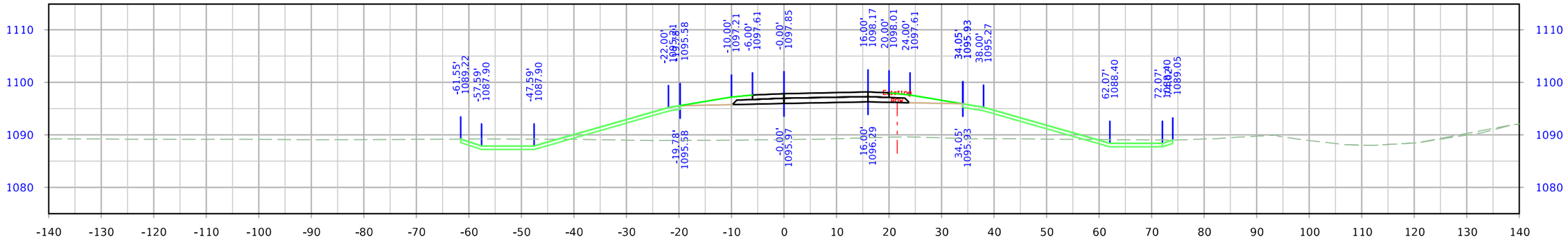



STA. 1003+50.00

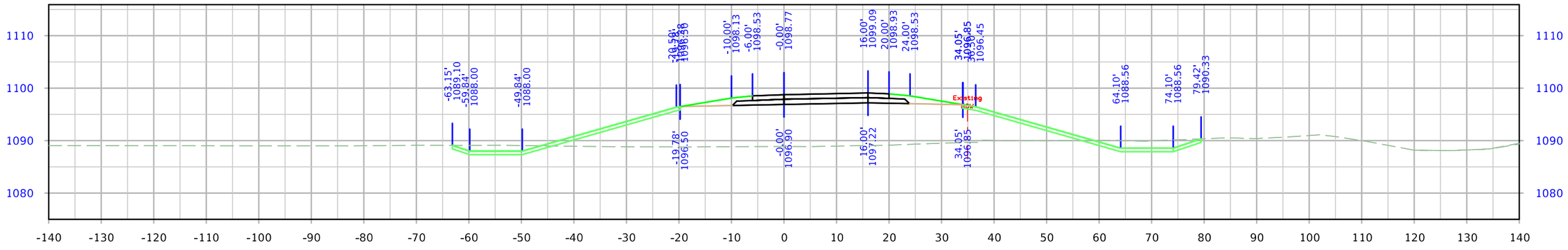
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.4 |
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9:39:02 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPA_97029278Z04.dgn

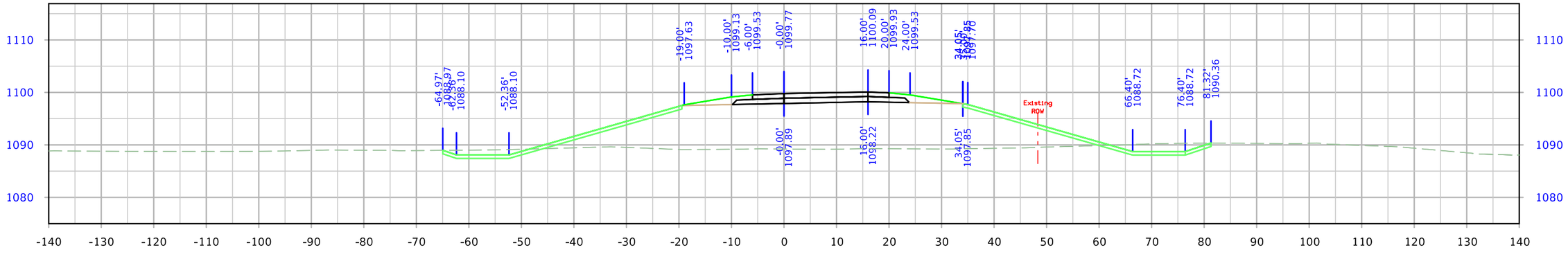
# I-29 Ramp A




STA. 1006+00.00




STA. 1005+50.00

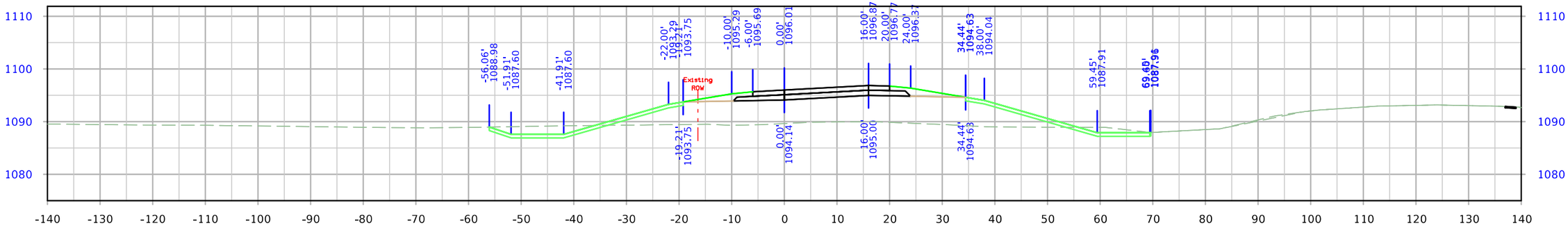



STA. 1005+00.00

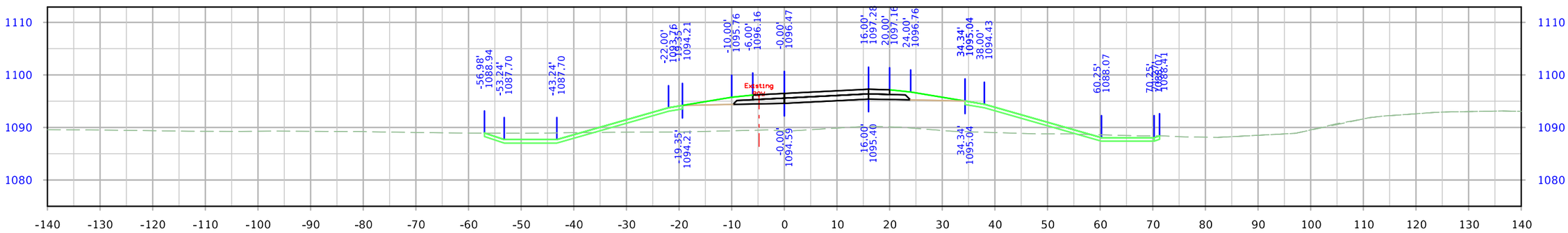
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.5 | |
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9:39:04 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPA_97029278Z04.dgn

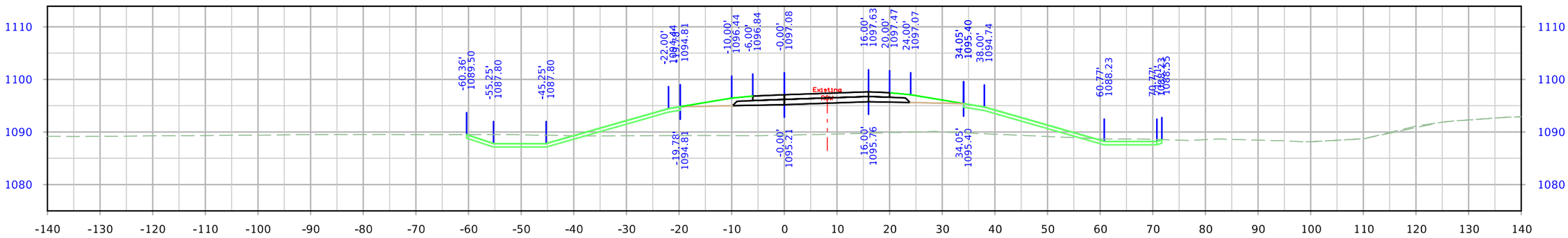
# I-29 Ramp A




STA. 1007+50.00




STA. 1007+00.00

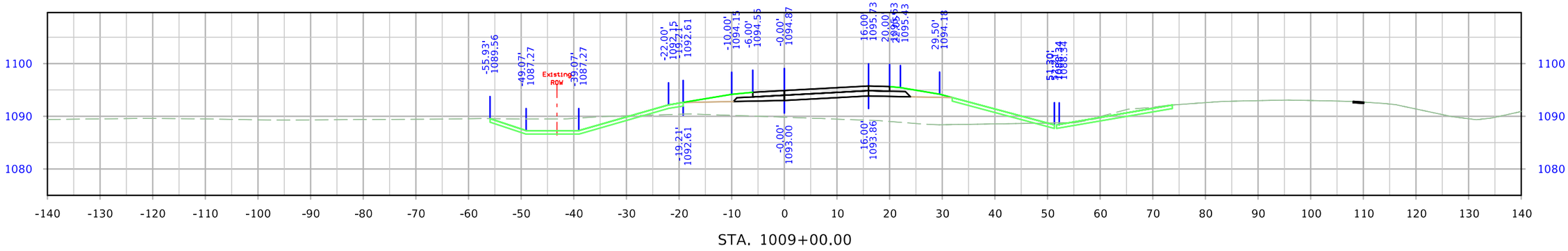



STA. 1006+50.00

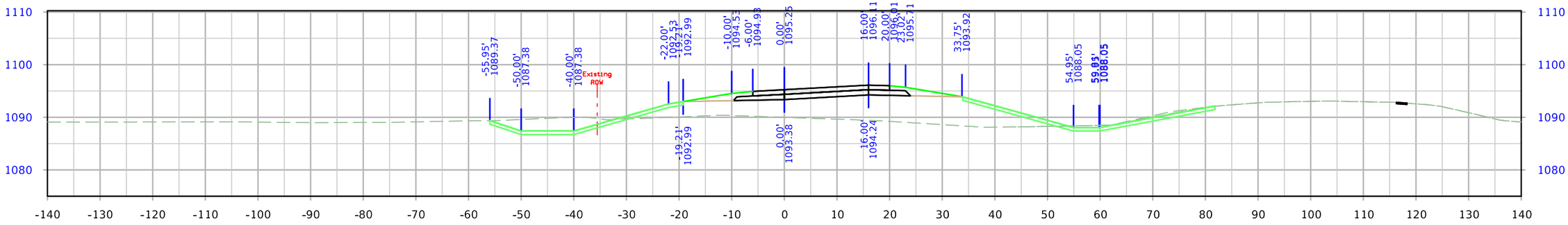
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.6 | |
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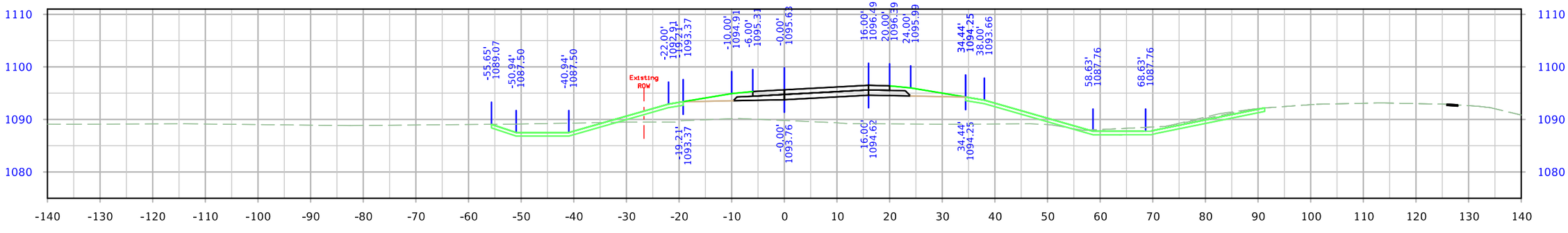
# I-29 Ramp A




STA. 1009+00.00




STA. 1008+50.00

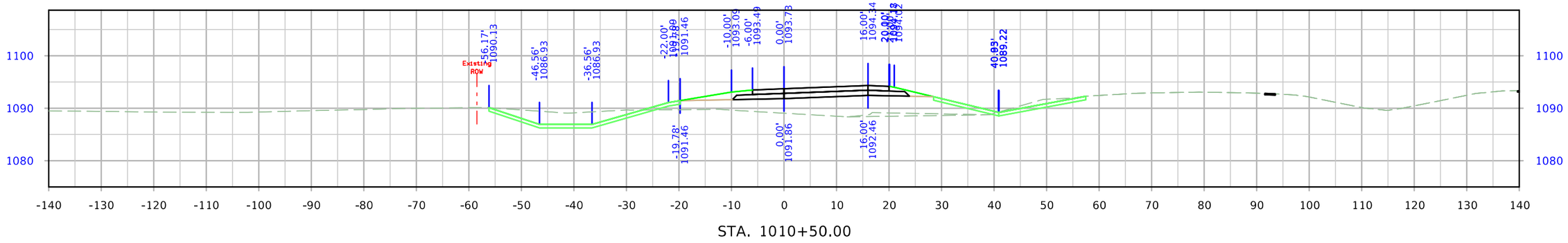



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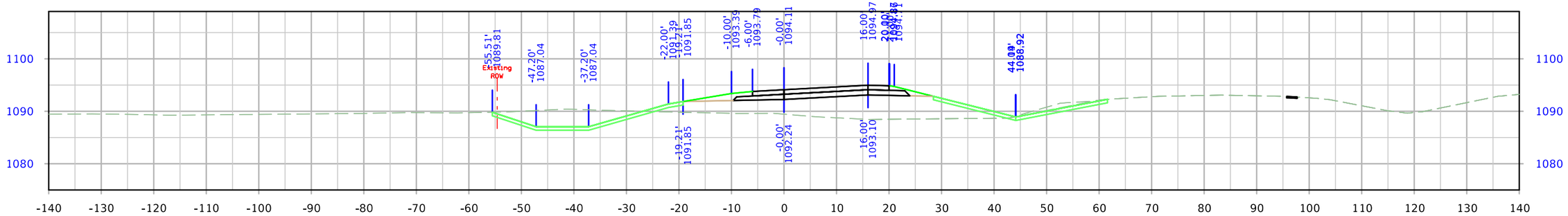
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.7 |
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3:43:07 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPA_97029278Z04.dgn

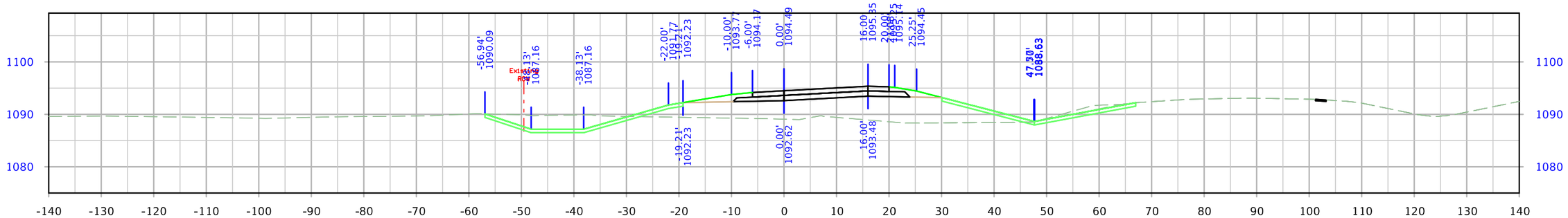
# I-29 Ramp A




STA. 1010+50.00




STA. 1010+00.00

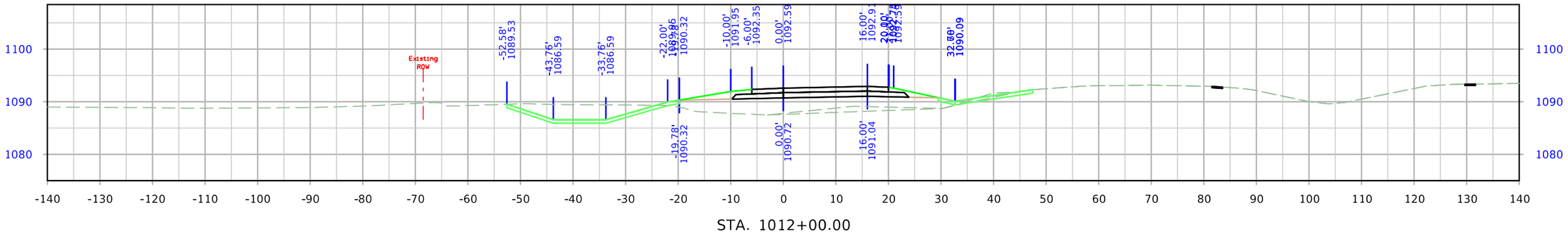



STA. 1009+50.00

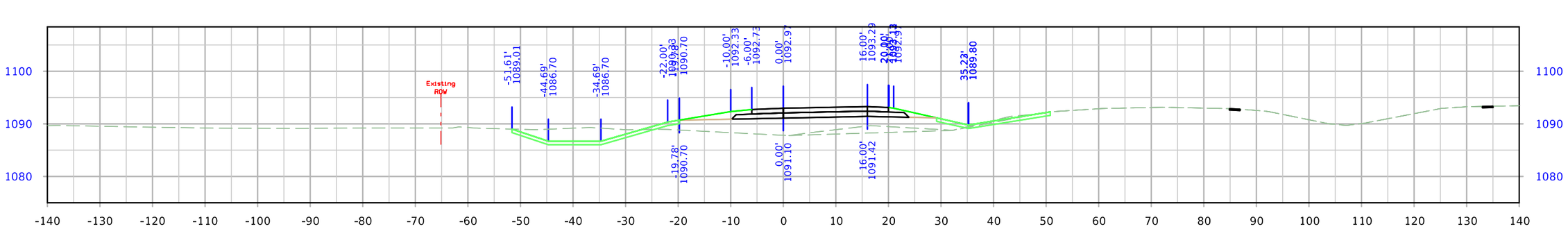
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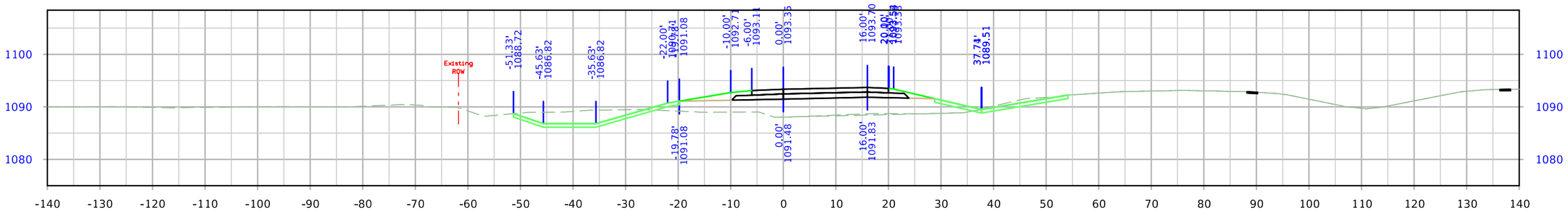
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STA. 1012+00.00




STA. 1011+50.00

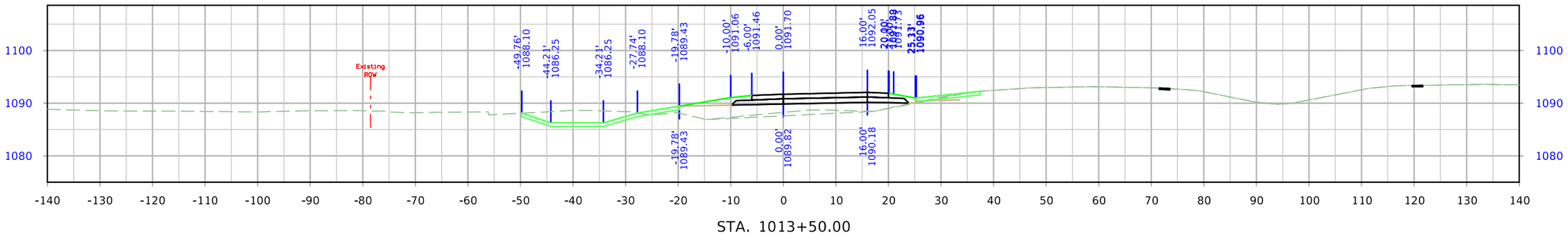



STA. 1011+00.00

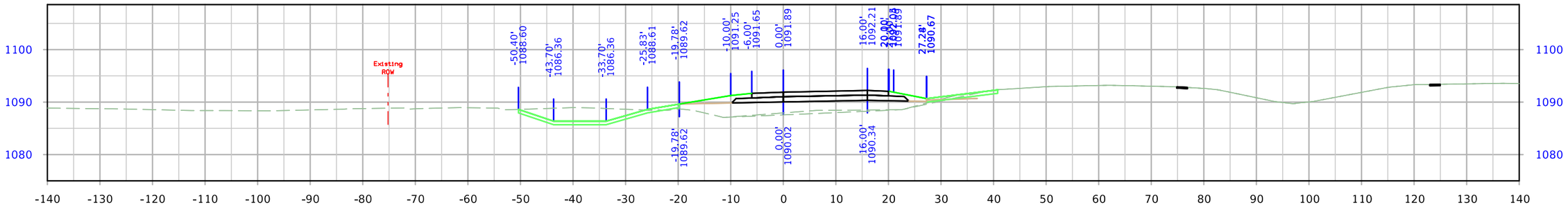
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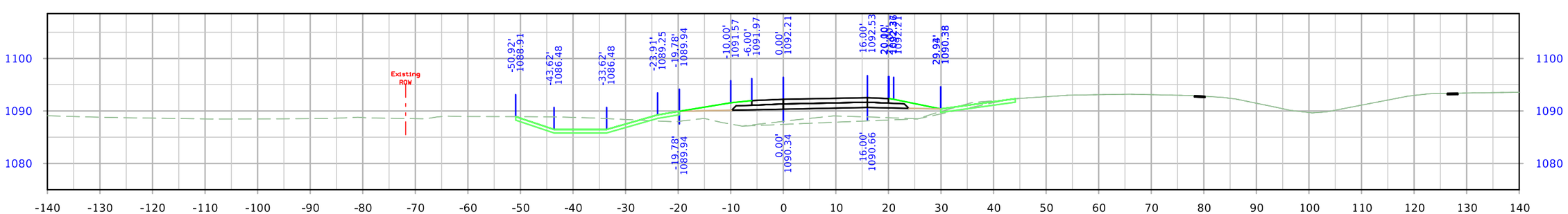
# I-29 Ramp A




STA. 1013+50.00




STA. 1013+00.00

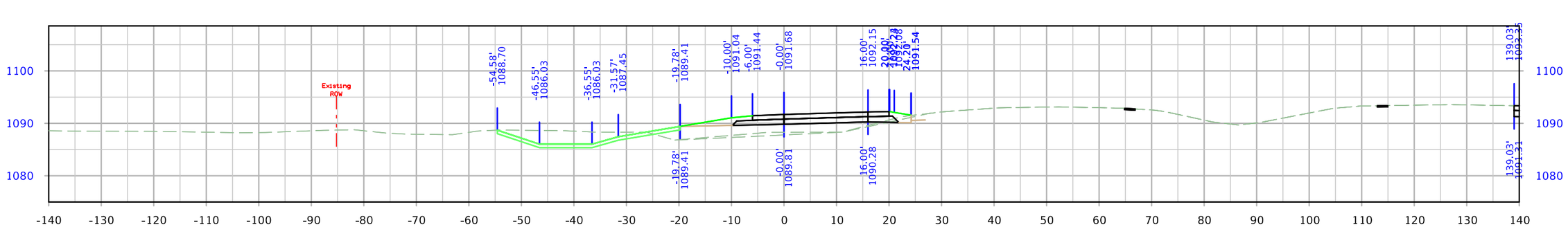



STA. 1012+50.00

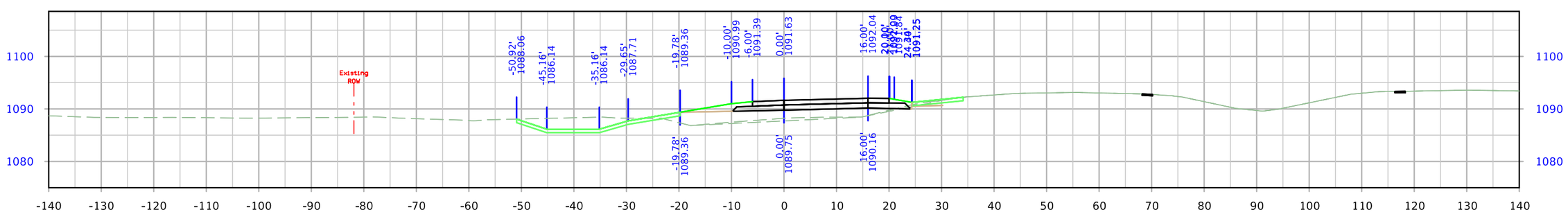
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9:39:15 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPA_97029278Z04.dgn

# I-29 Ramp A




STA. 1014+50.00

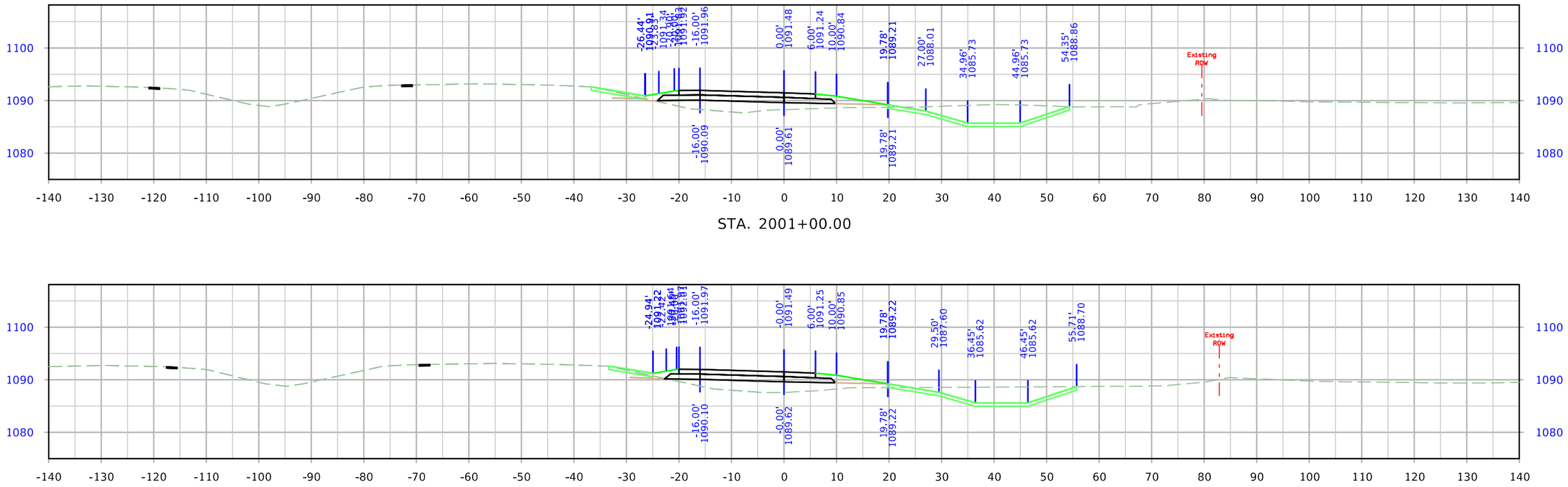



STA. 1014+00.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.11 |
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9:39:17 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPA_97029278Z04.dgn

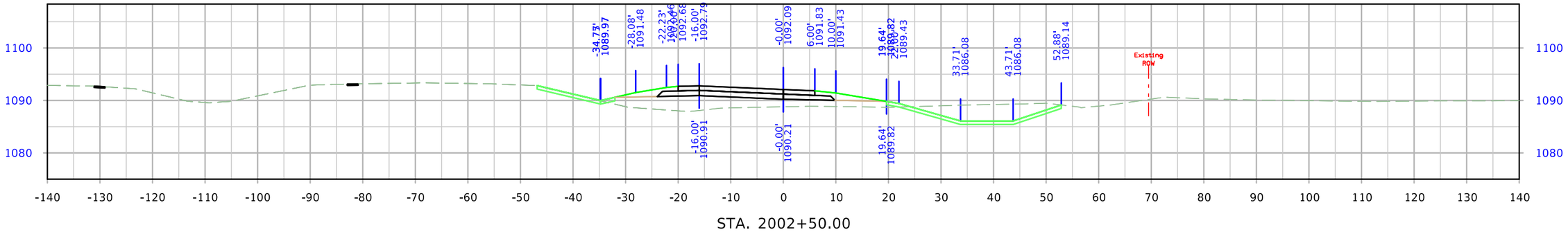
# I-29 Ramp B



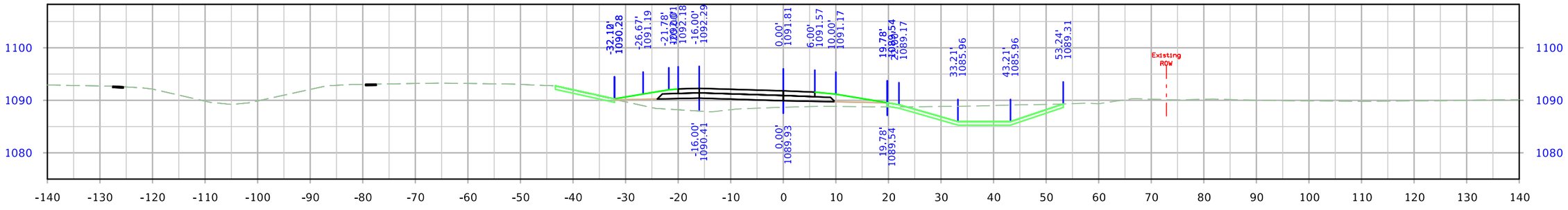

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.12 |
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9:39:35 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPB_97029278Z04.dgn

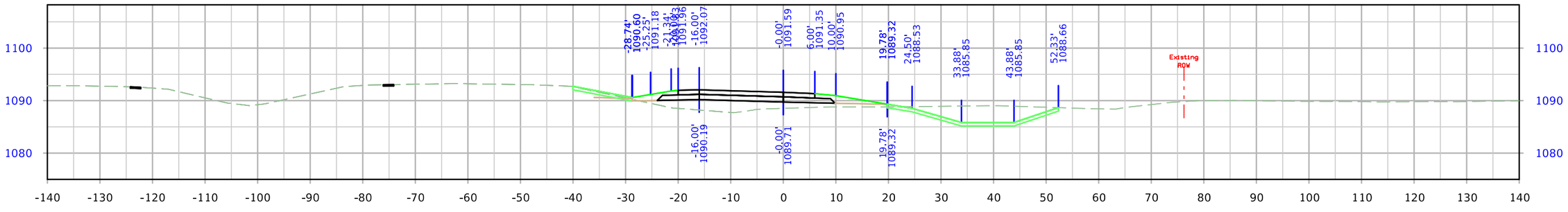
# I-29 Ramp B




STA. 2002+50.00




STA. 2002+00.00

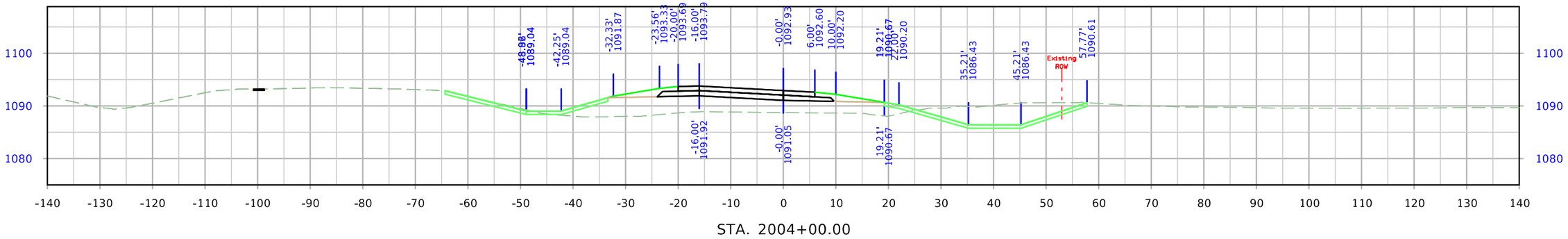



STA. 2001+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.13 |
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9:39:37 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPB_97029278Z04.dgn

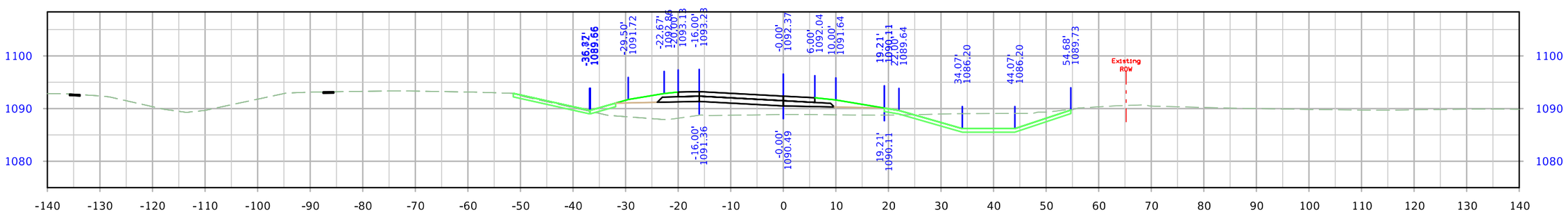
# I-29 Ramp B




STA. 2004+00.00




STA. 2003+50.00

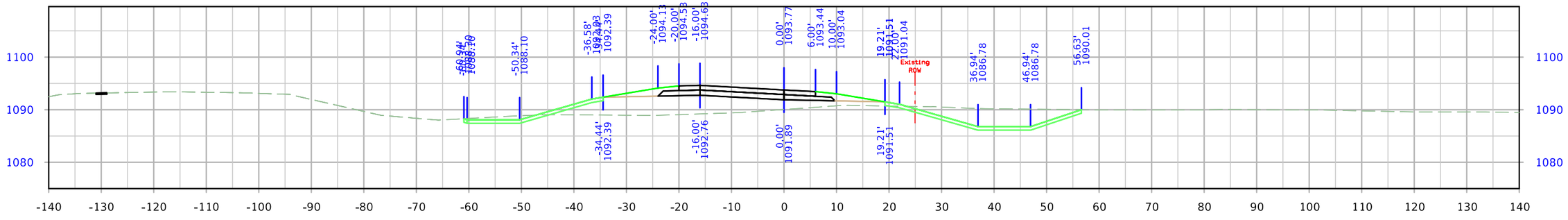



STA. 2003+00.00

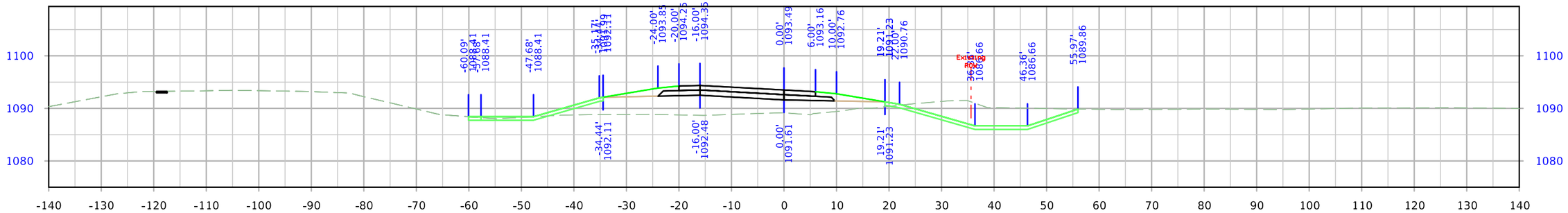
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.14 |
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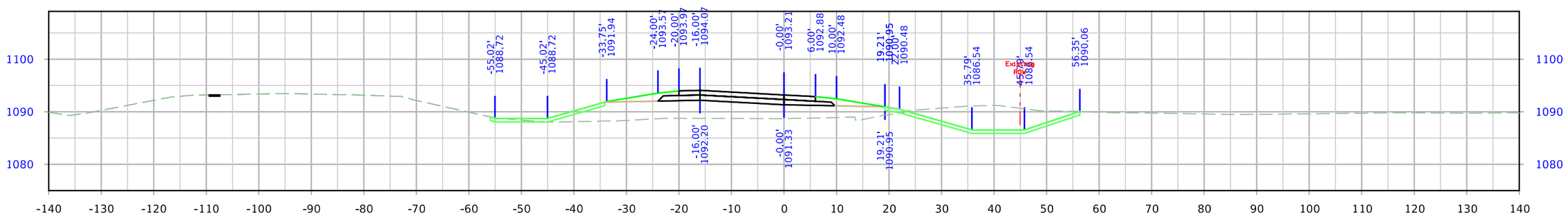
# I-29 Ramp B




STA. 2005+50.00




STA. 2005+00.00

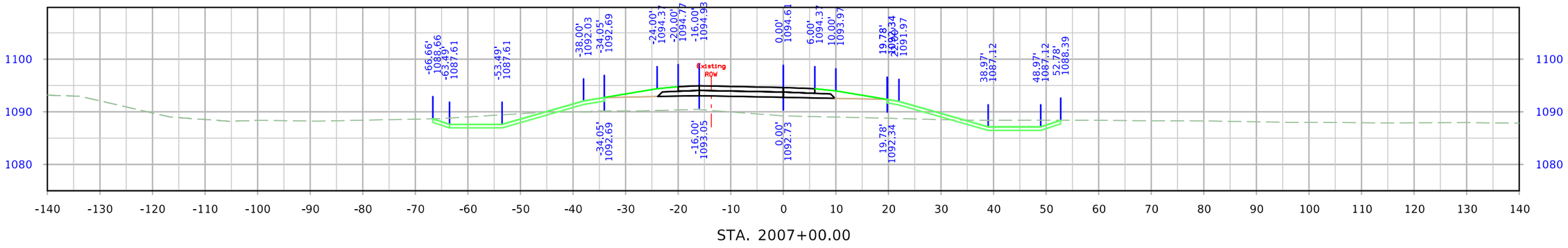



STA. 2004+50.00

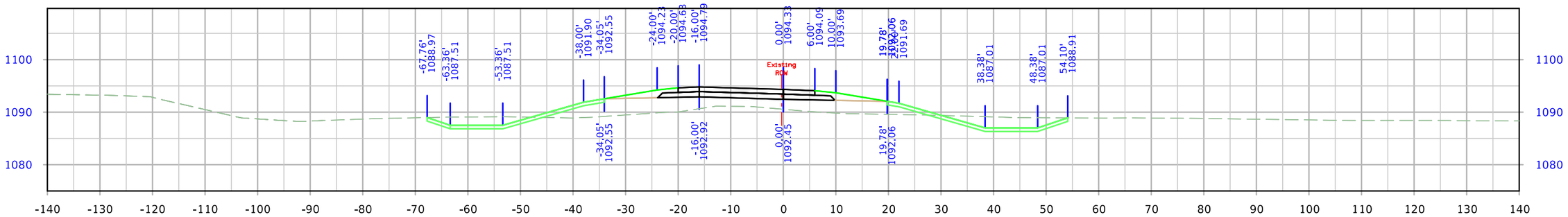
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.15 |
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9:39:42 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPB_97029278Z04.dgn

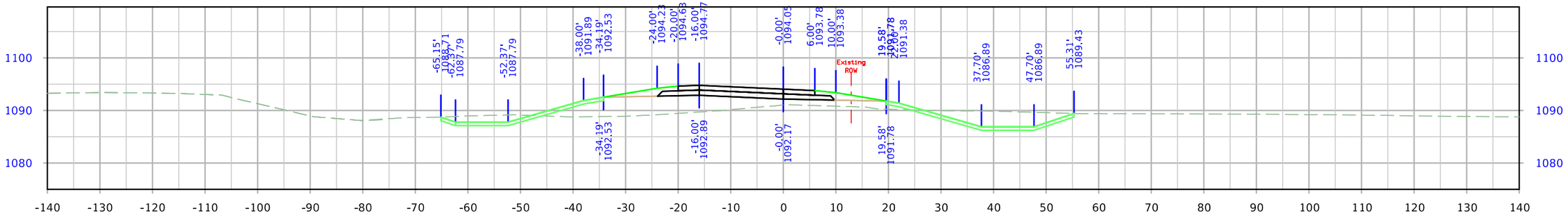
# I-29 Ramp B




STA. 2007+00.00




STA. 2006+50.00

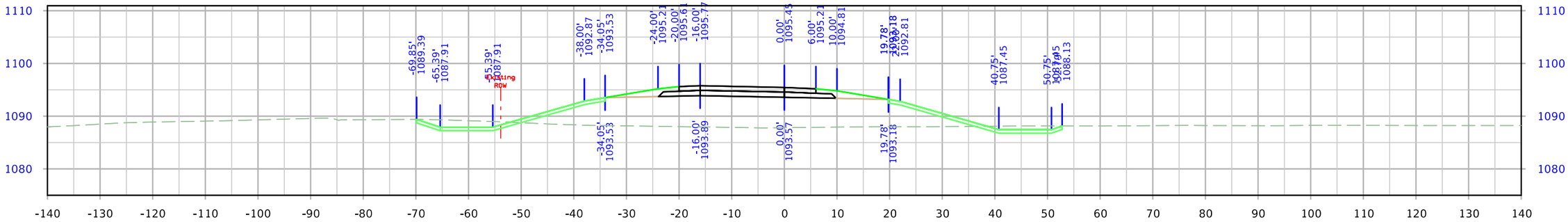



STA. 2006+00.00

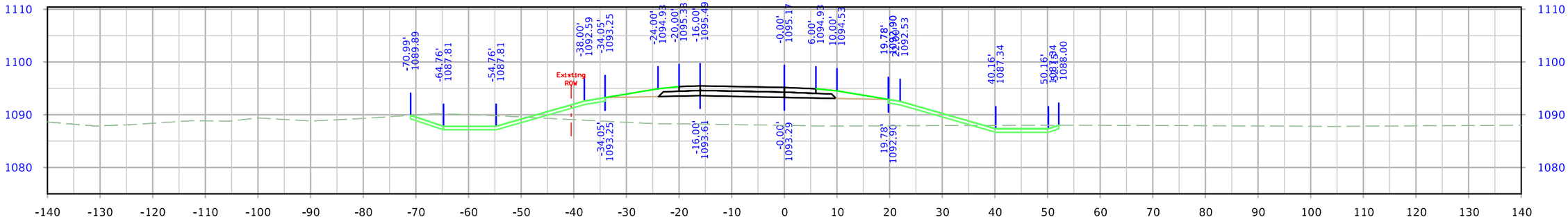
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9:39:44 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPB_97029278Z04.dgn

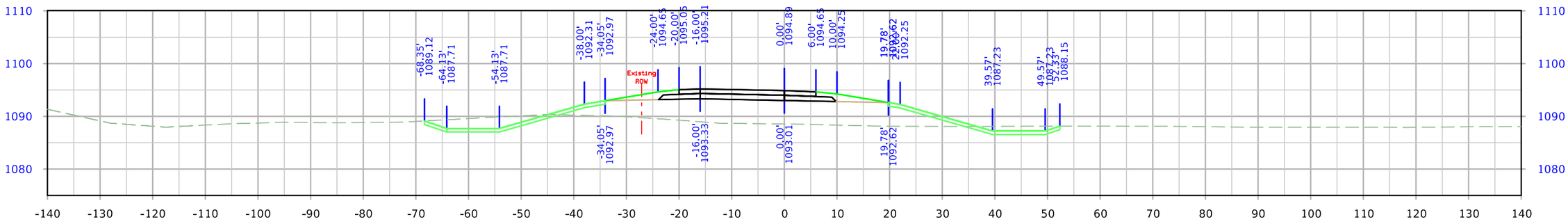
# I-29 Ramp B




STA. 2008+50.00




STA. 2008+00.00

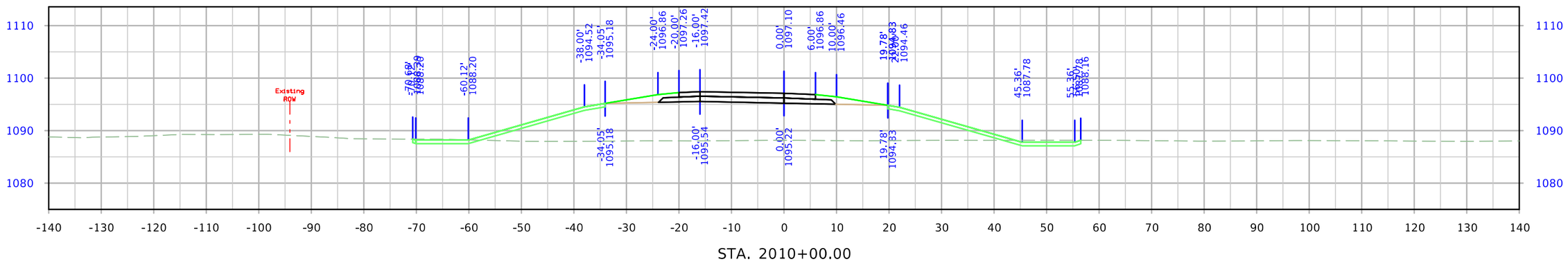



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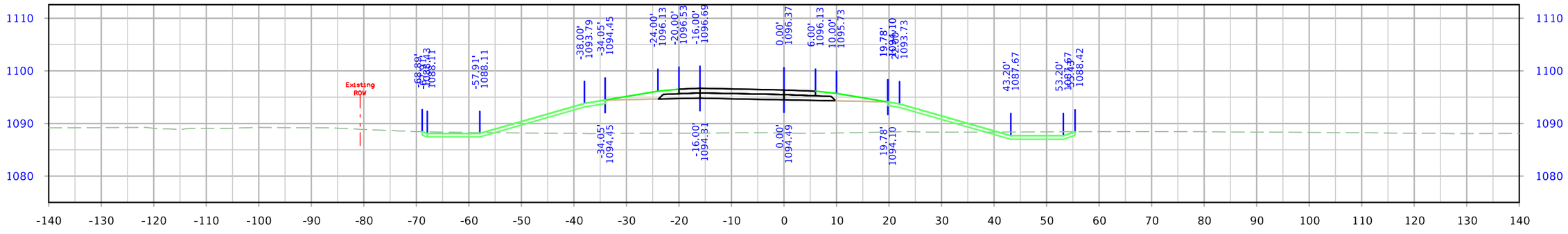
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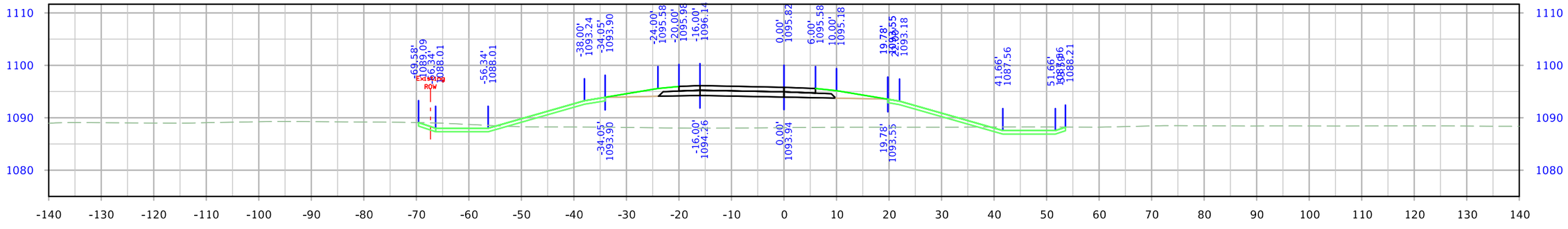
# I-29 Ramp B




STA. 2010+00.00




STA. 2009+50.00

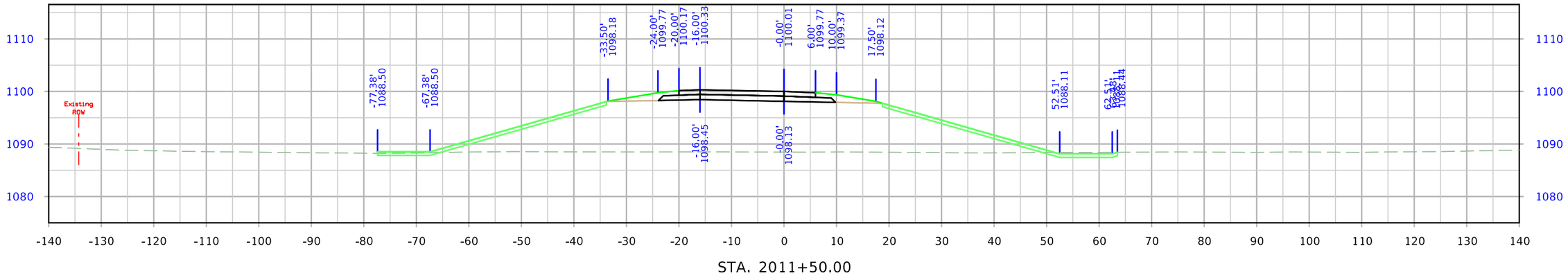



STA. 2009+00.00

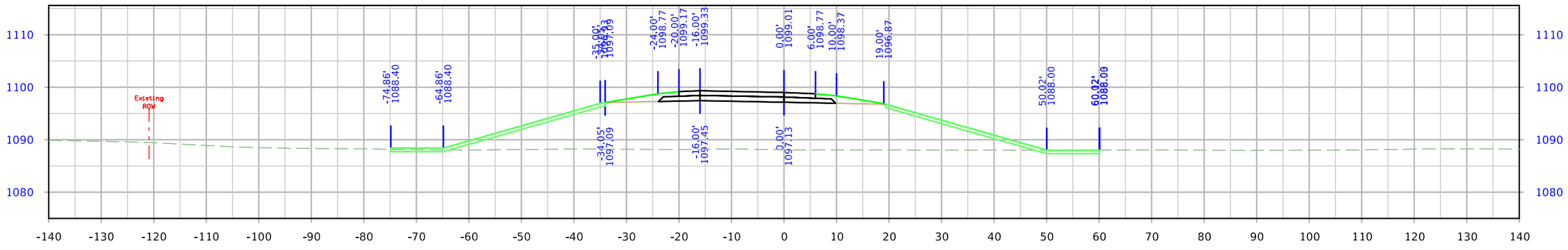
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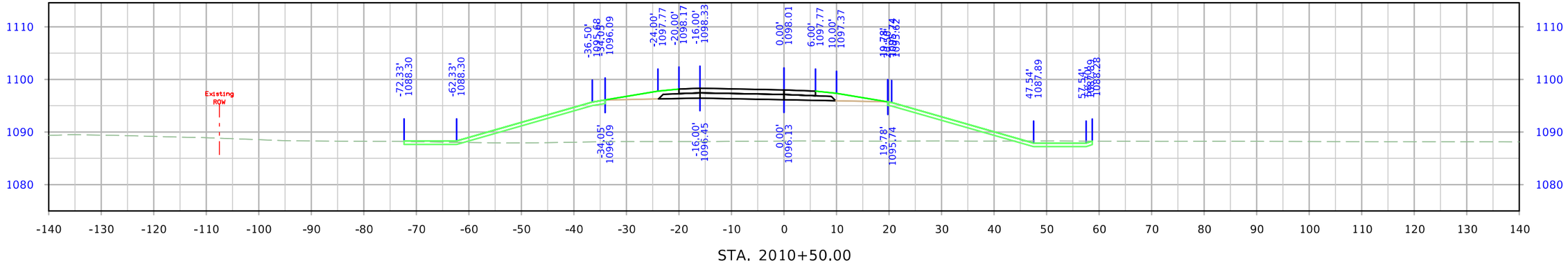
# I-29 Ramp B




STA. 2011+50.00




STA. 2011+00.00

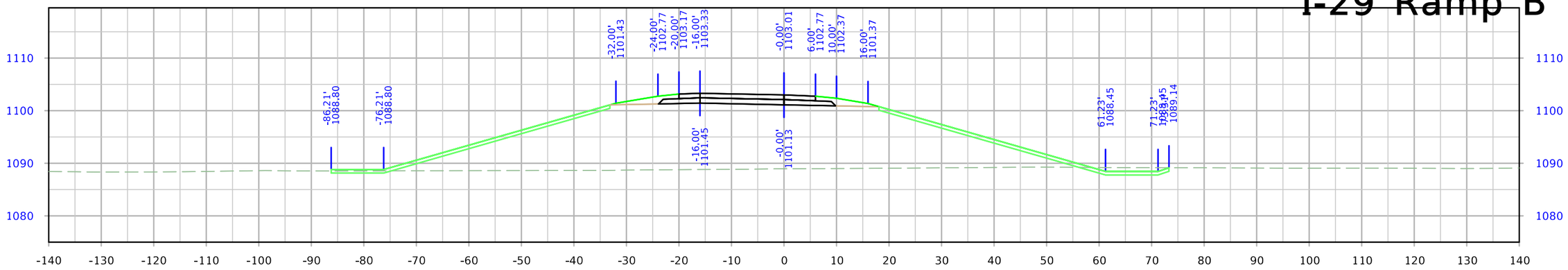



STA. 2010+50.00

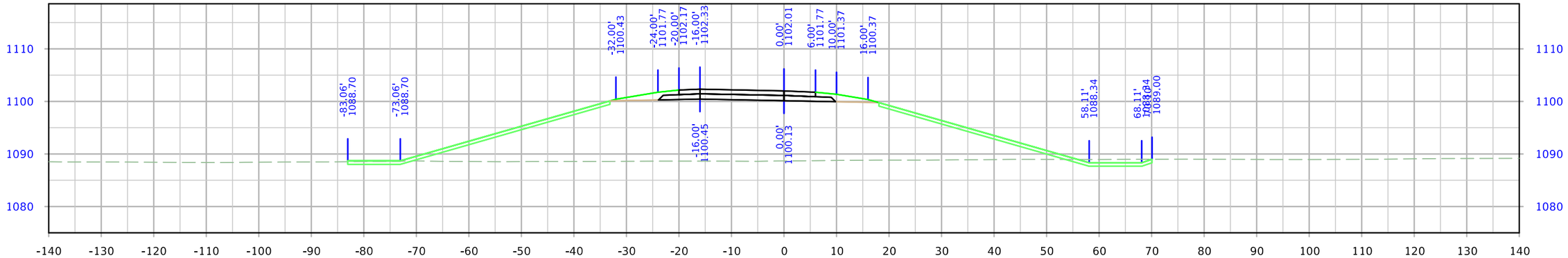
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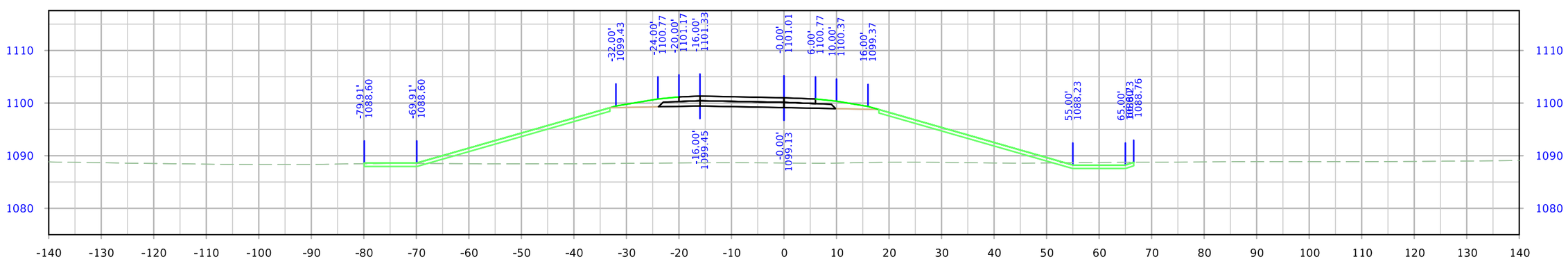
# I-29 Ramp B




STA. 2013+00.00




STA. 2012+50.00

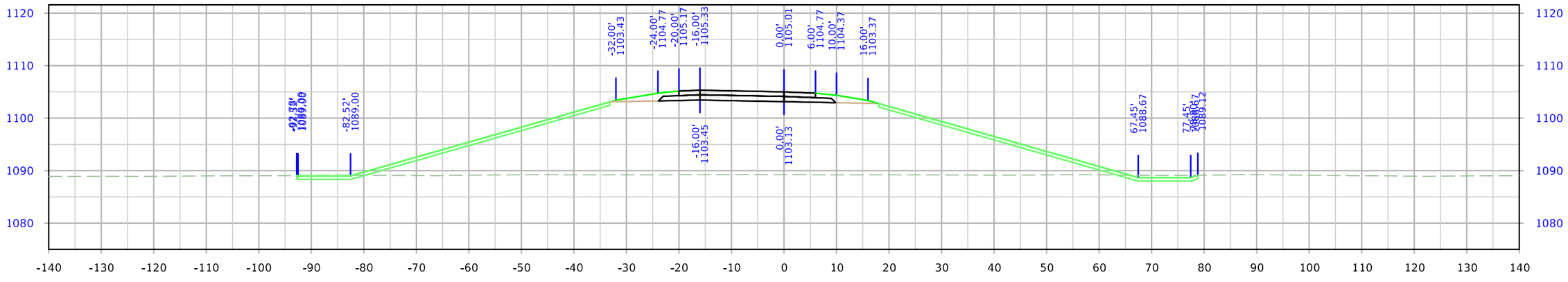



STA. 2012+00.00

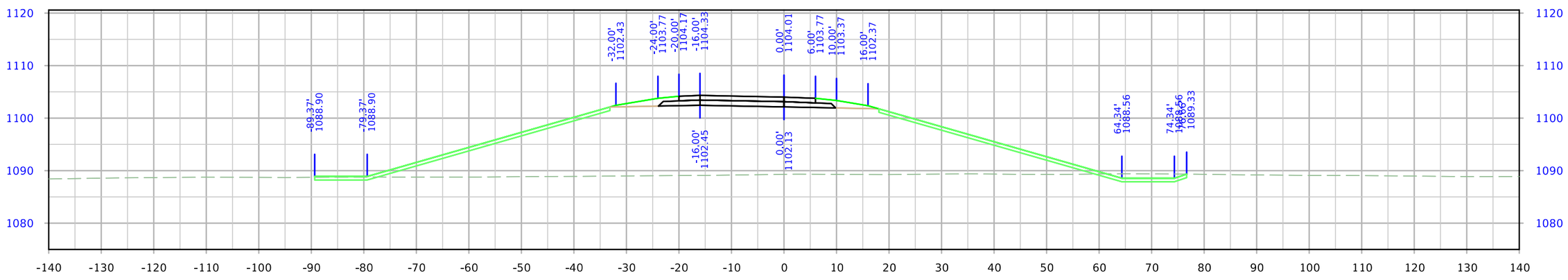
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9:39:53 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPB_97029278Z04.dgn

# I-29 Ramp B




STA. 2014+00.00

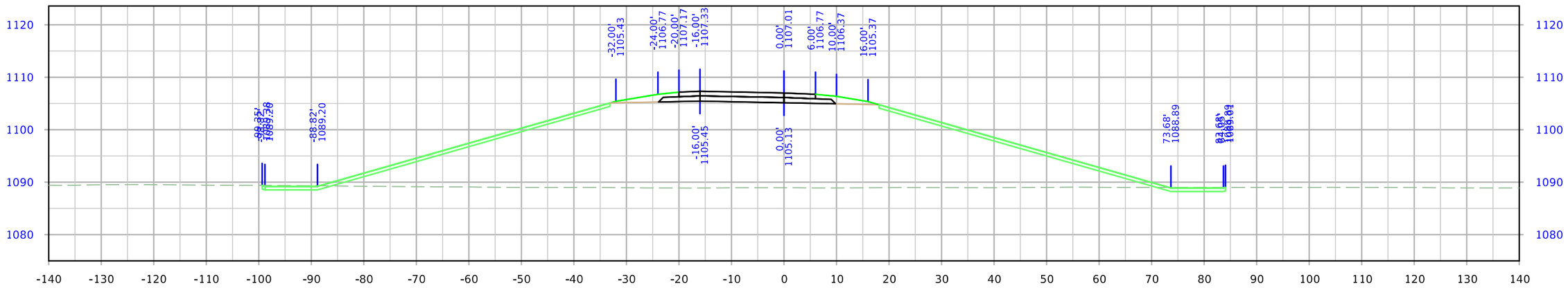



STA. 2013+50.00

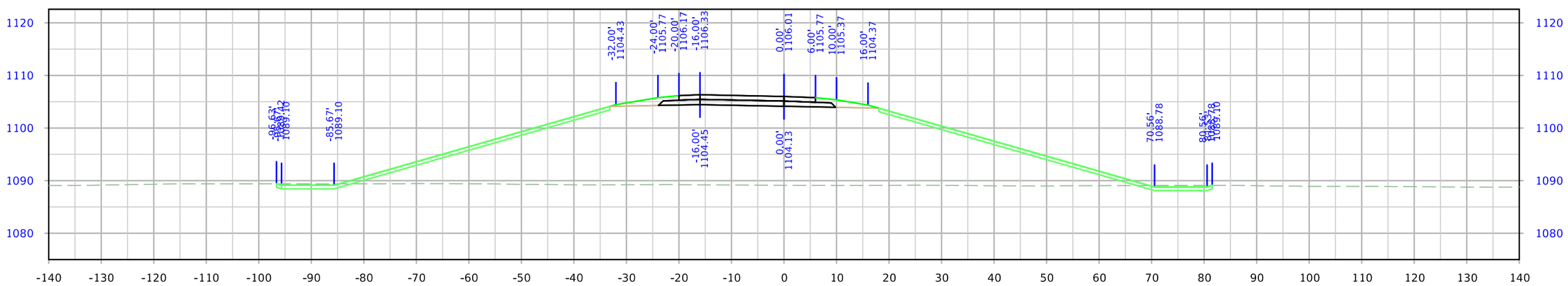
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.21 |
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9:39:55 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPB_97029278Z04.dgn

# I-29 Ramp B




STA. 2015+00.00

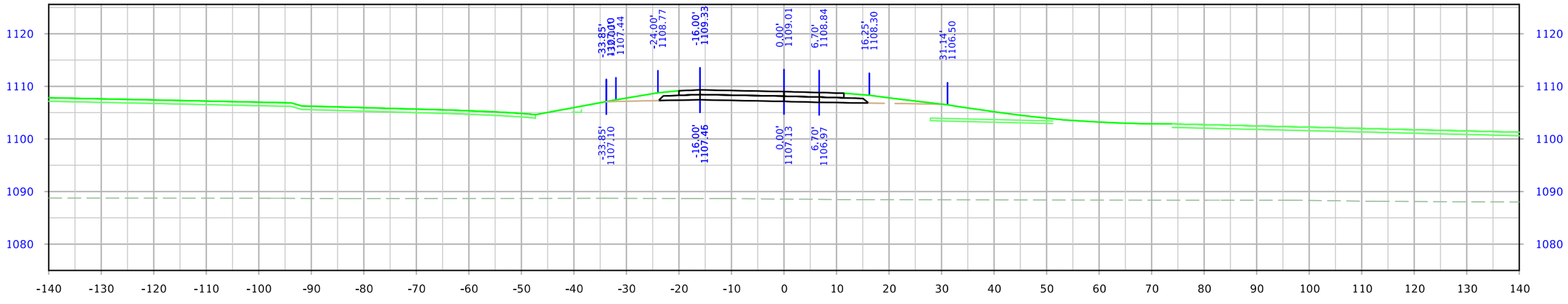



STA. 2014+50.00

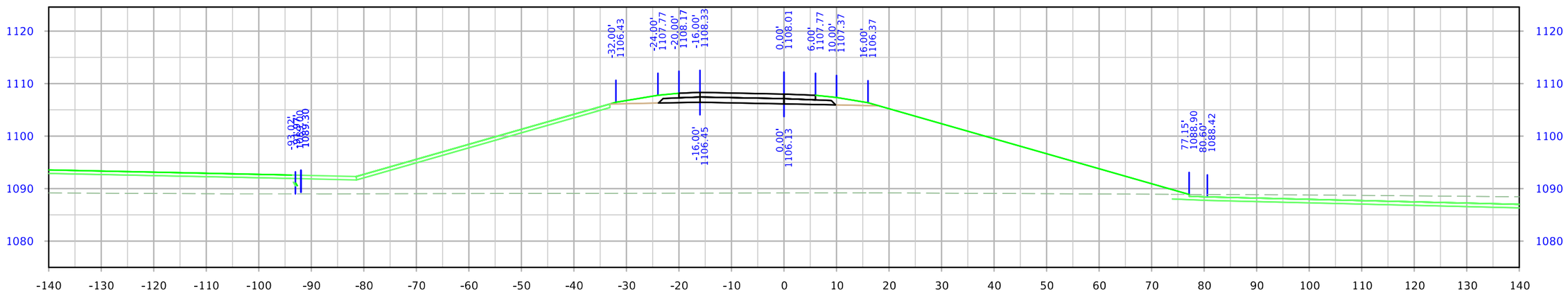
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.22 |
|---|---|---|---|---|---|

9:39:57 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPB_97029278Z04.dgn

# I-29 Ramp B




STA. 2016+00.00

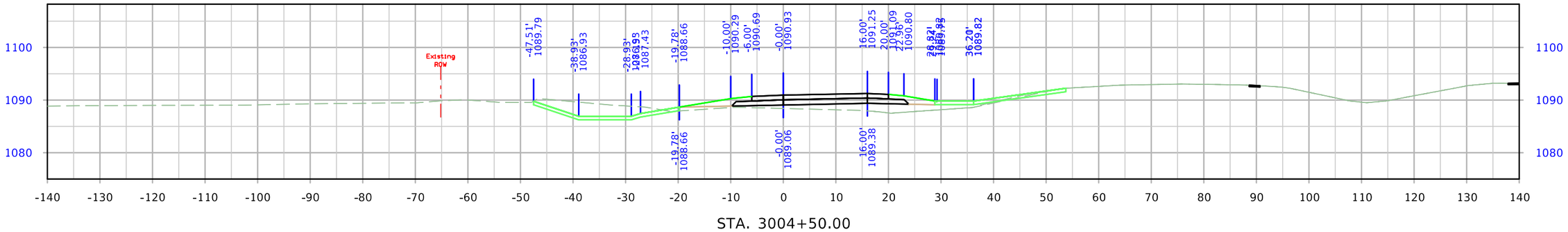



STA. 2015+50.00

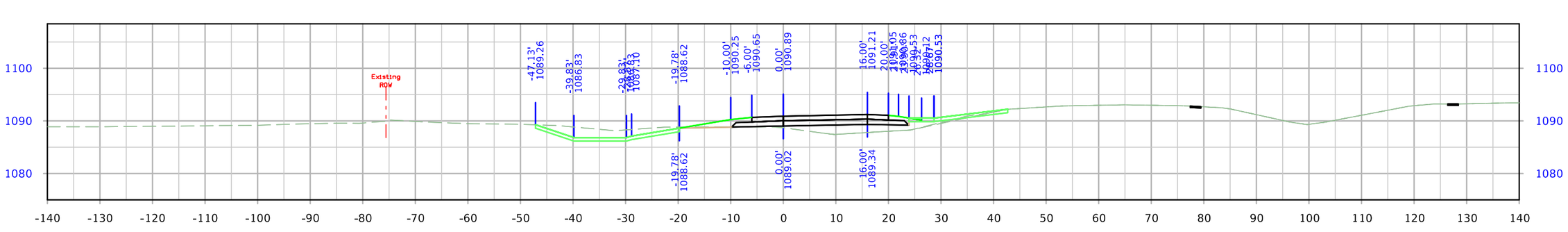
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.23 |
|---|---|---|---|---|---|

9:39:59 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPB_97029278Z04.dgn

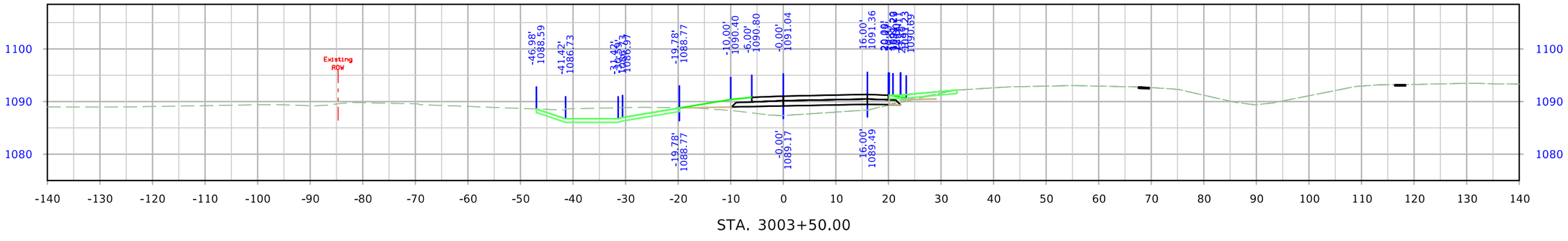
# I-29 Ramp C




STA. 3004+50.00




STA. 3004+00.00

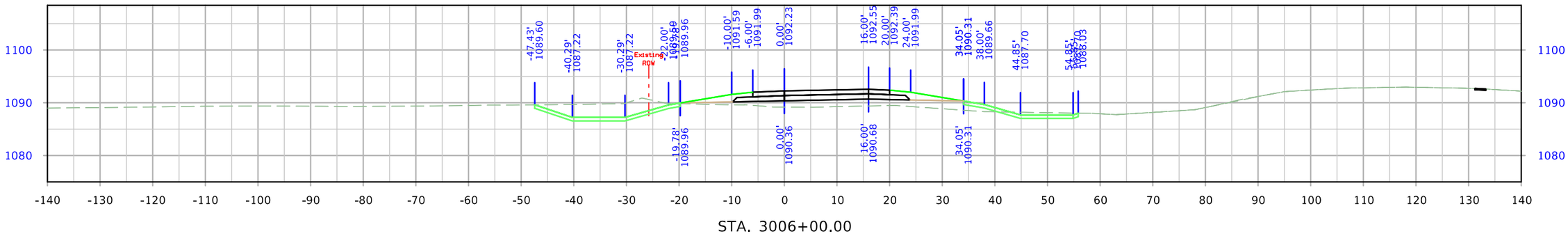



STA. 3003+50.00

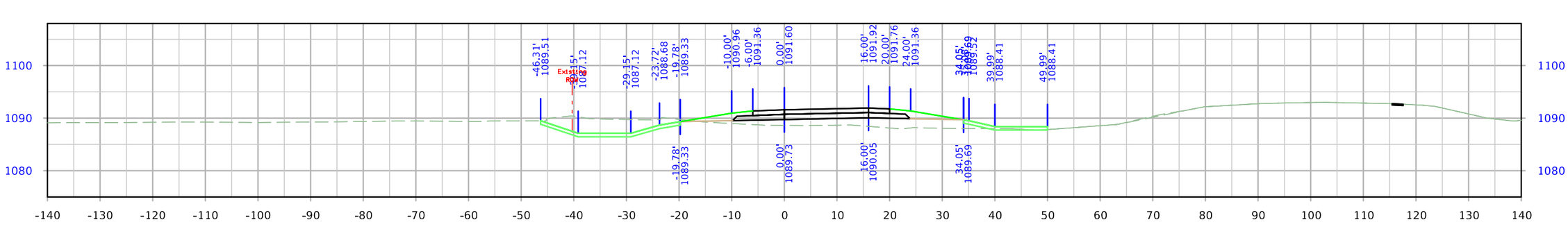
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.24 |
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9:40:17 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

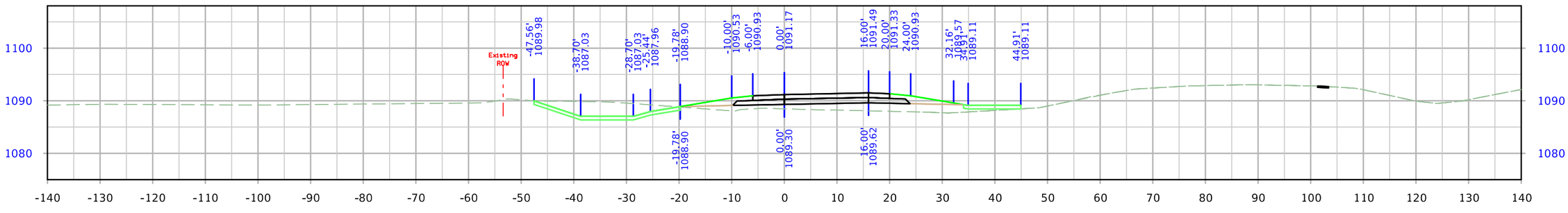
# I-29 Ramp C




STA. 3006+00.00




STA. 3005+50.00

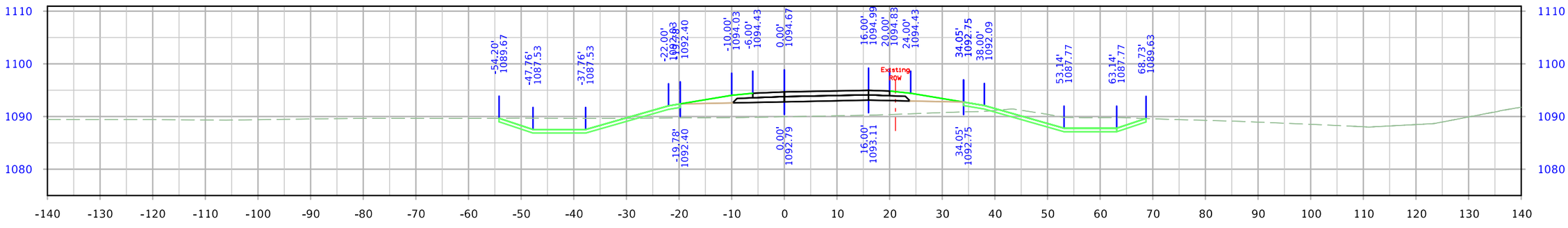



STA. 3005+00.00

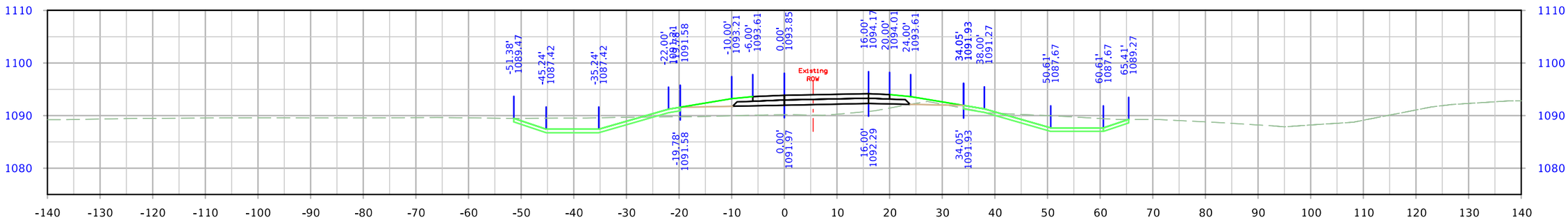
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.25 |
|---|---|---|---|---|---|

9:40:19 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

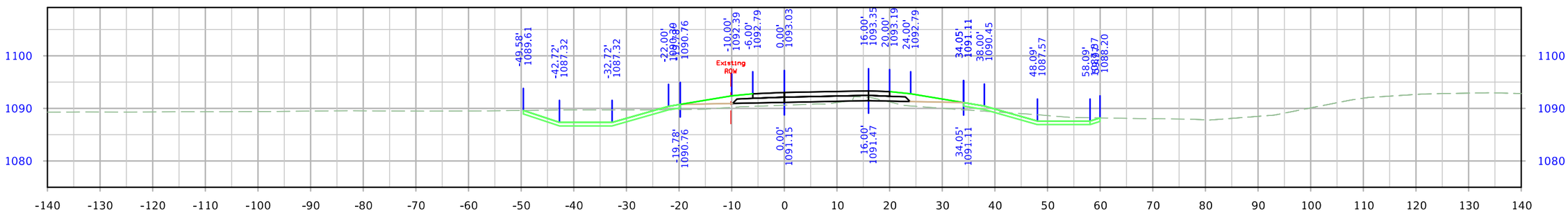
# I-29 Ramp C




STA. 3007+50.00




STA. 3007+00.00

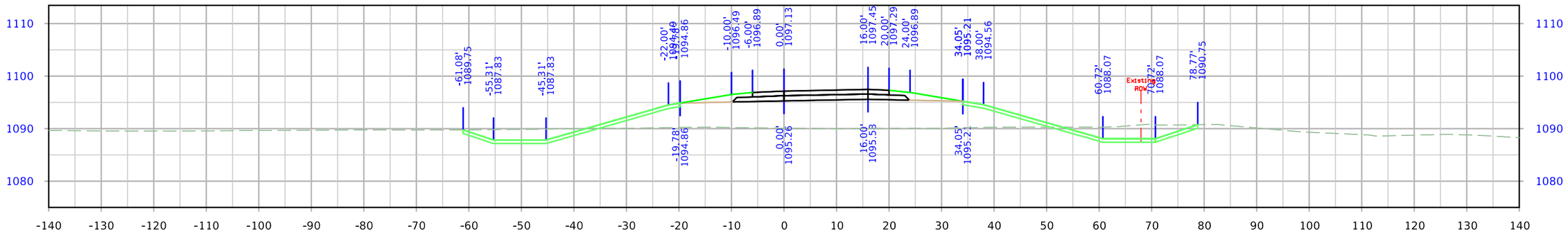



STA. 3006+50.00

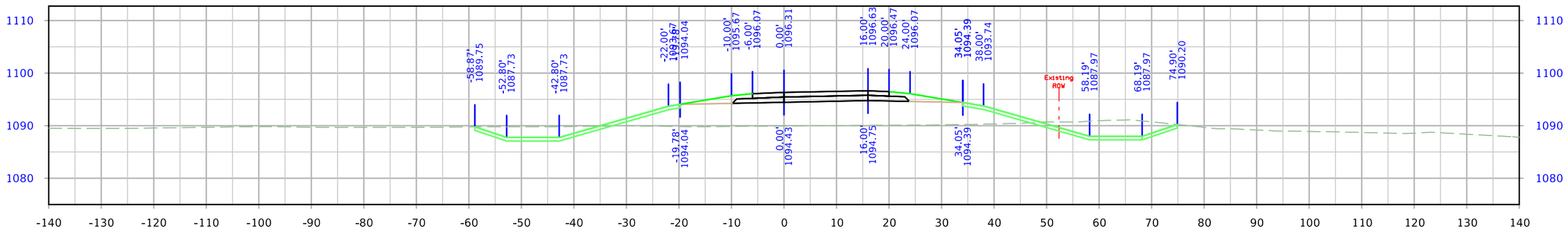
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.26 | |
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9:40:22 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

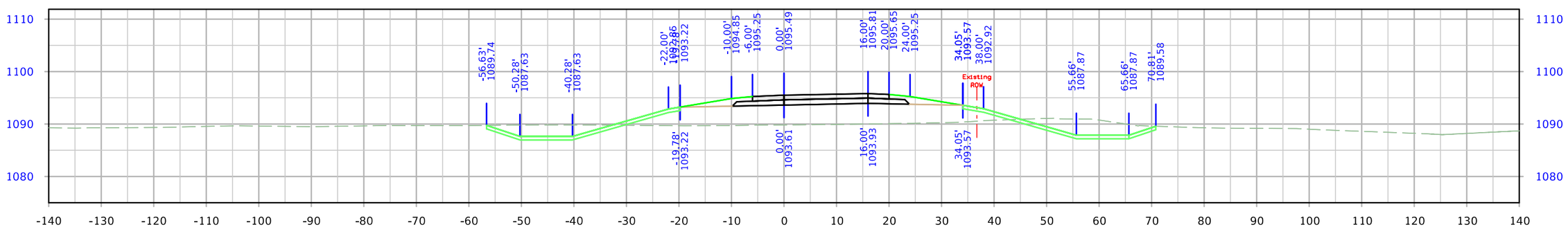
# I-29 Ramp C




STA. 3009+00.00




STA. 3008+50.00

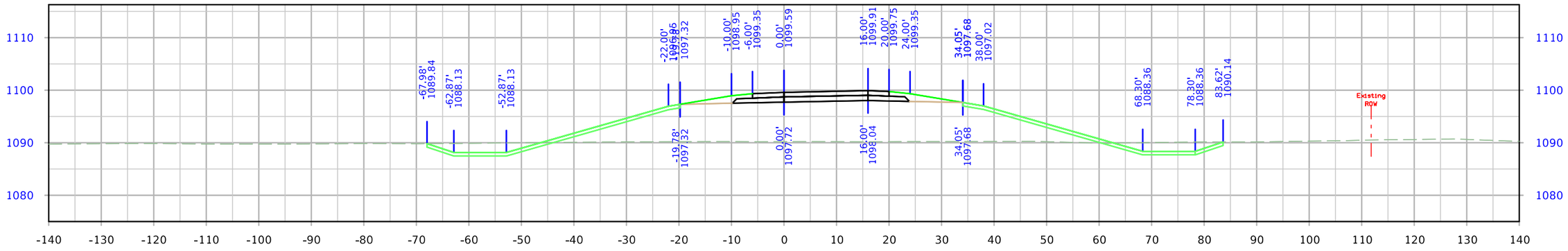



STA. 3008+00.00

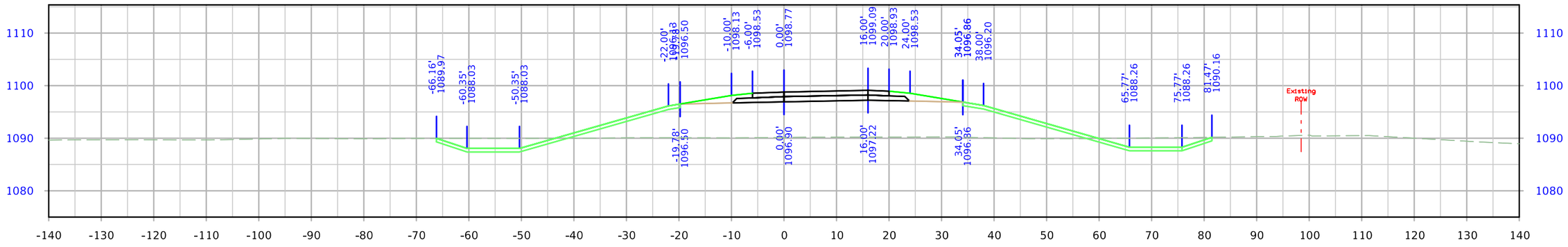
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.27 |
|---|---|---|---|---|---|

9:40:24 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

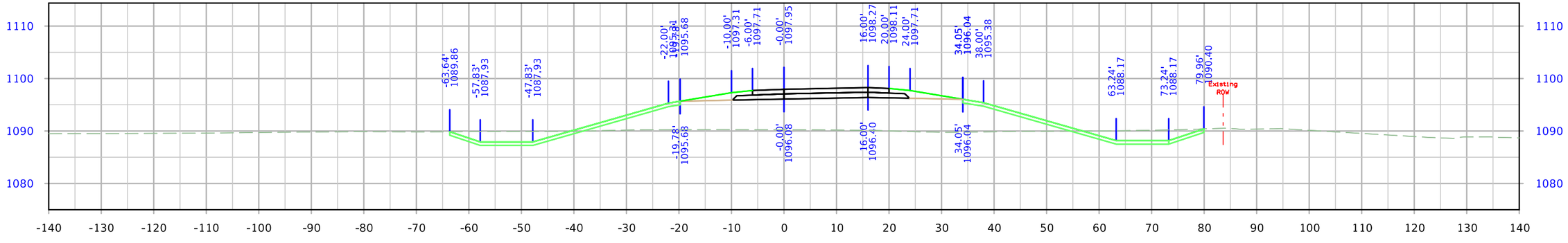
# I-29 Ramp C




STA. 3010+50.00




STA. 3010+00.00

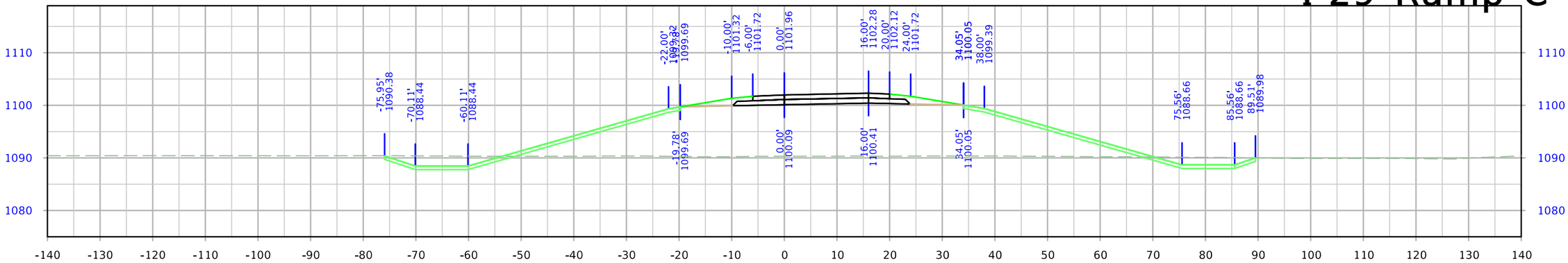



STA. 3009+50.00

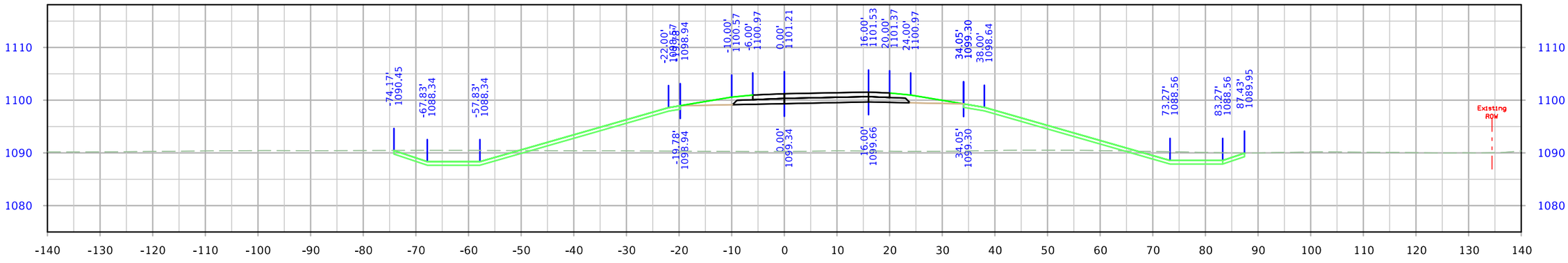
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.28 |
|---|---|---|---|---|---|

9:40:26 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

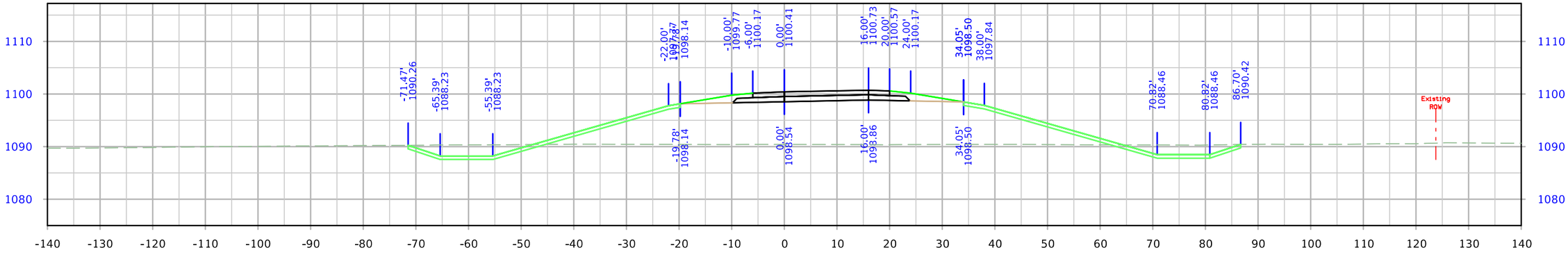
# I-29 Ramp C




STA. 3012+00.00




STA. 3011+50.00

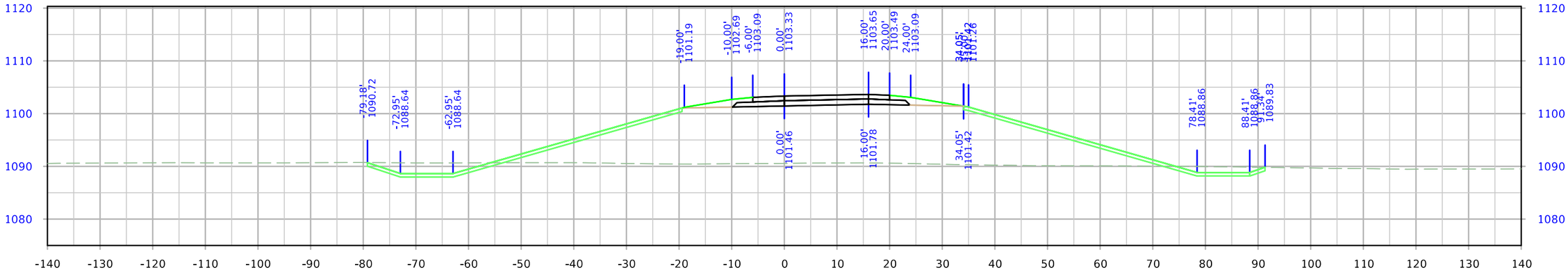



STA. 3011+00.00

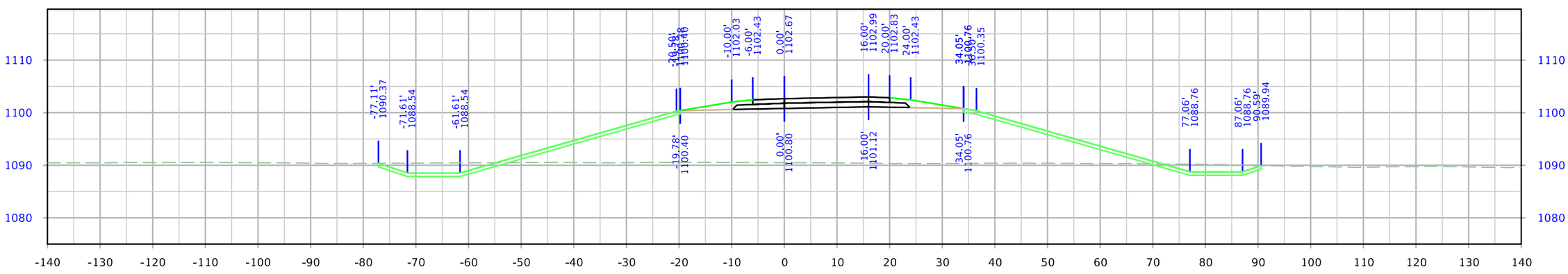
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.29 |
|---|---|---|---|---|---|

9:40:28 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

# I-29 Ramp C




STA. 3013+00.00

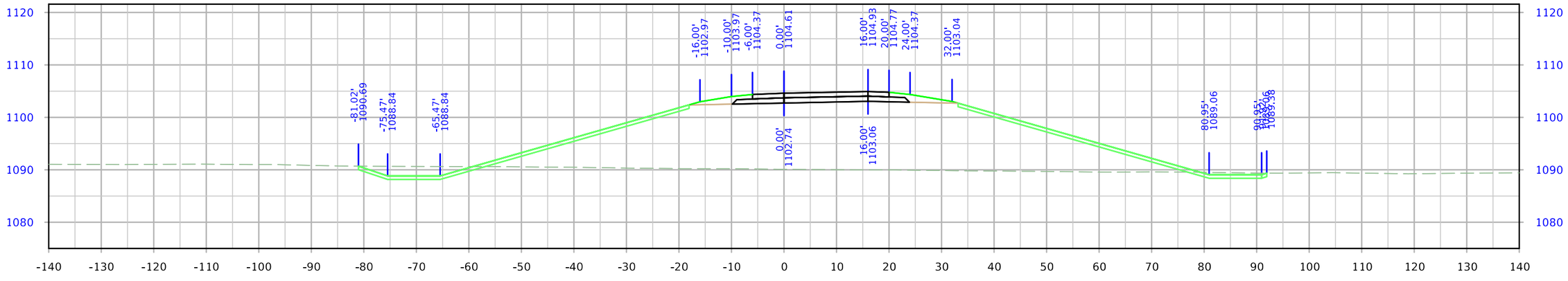



STA. 3012+50.00

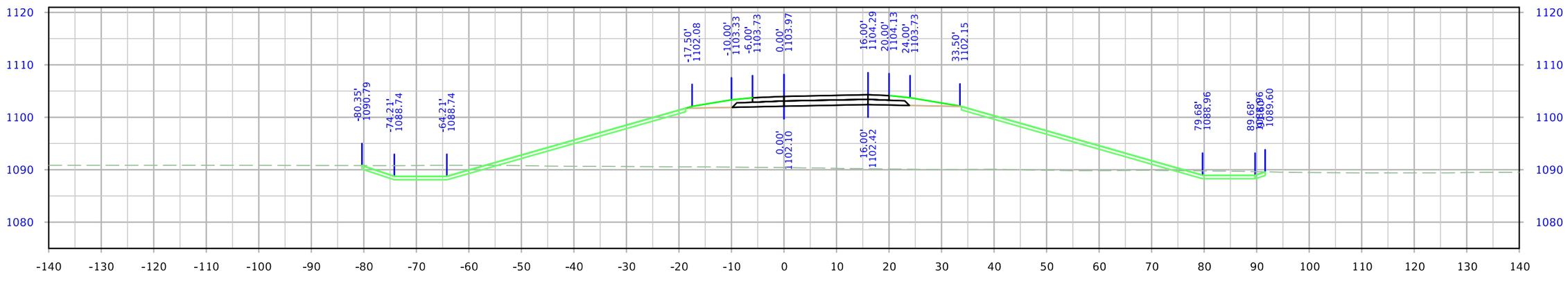
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.30 |
|---|---|---|---|---|---|

9:40:30 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

# I-29 Ramp C




STA. 3014+00.00

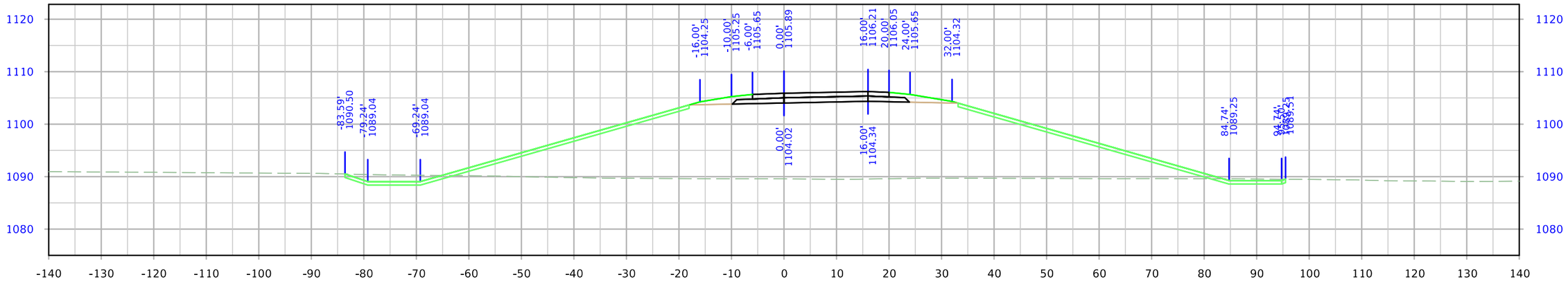



STA. 3013+50.00

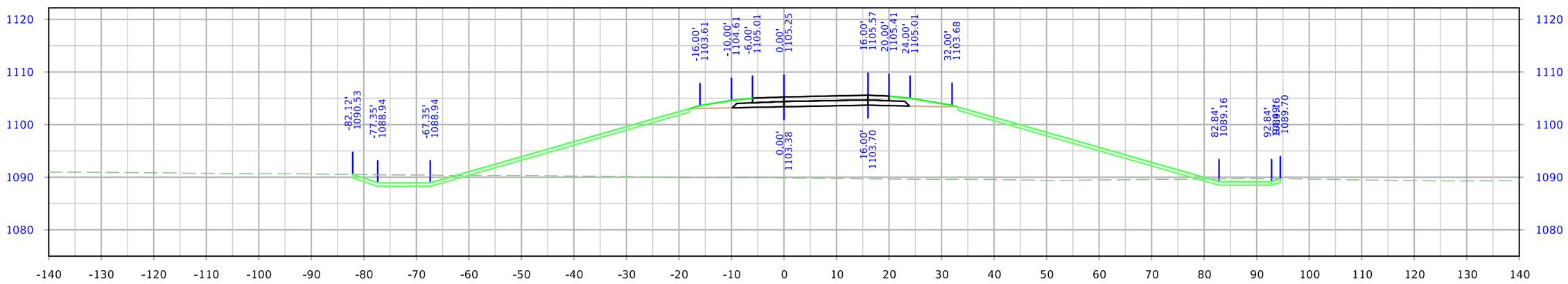
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.31 |
|---|---|---|---|---|---|

9:40:32 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

# I-29 Ramp C




STA. 3015+00.00

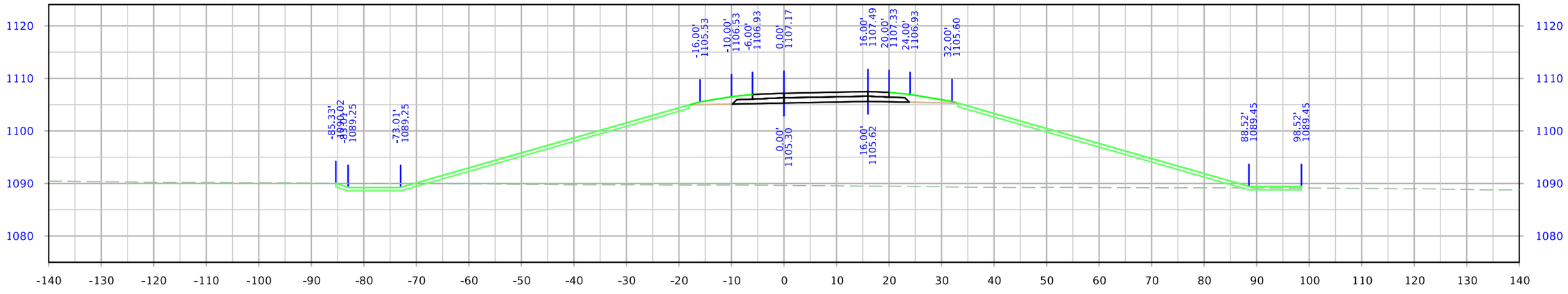



STA. 3014+50.00

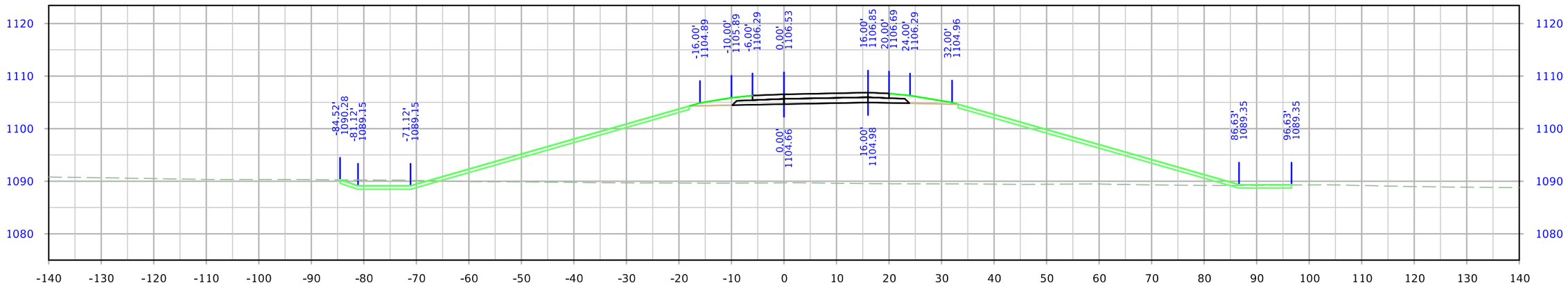
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.32 |
|---|---|---|---|---|---|

9:40:33 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

# I-29 Ramp C




STA. 3016+00.00

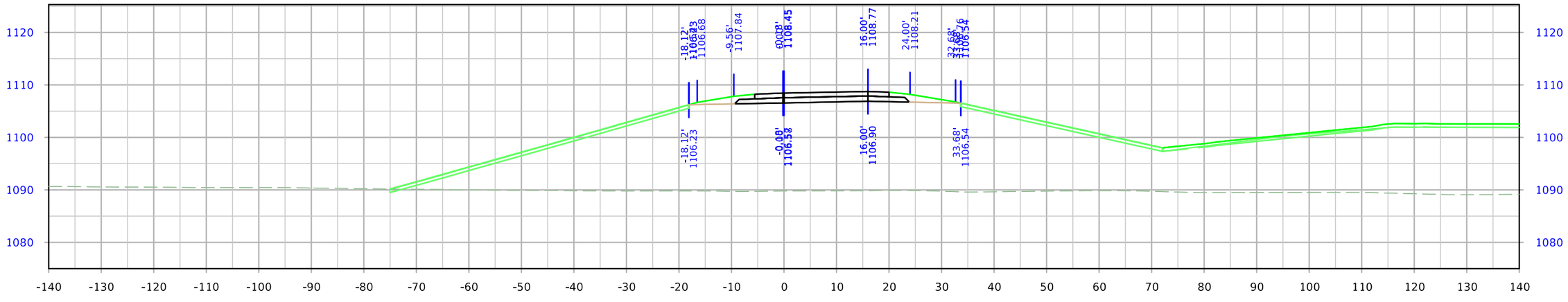



STA. 3015+50.00

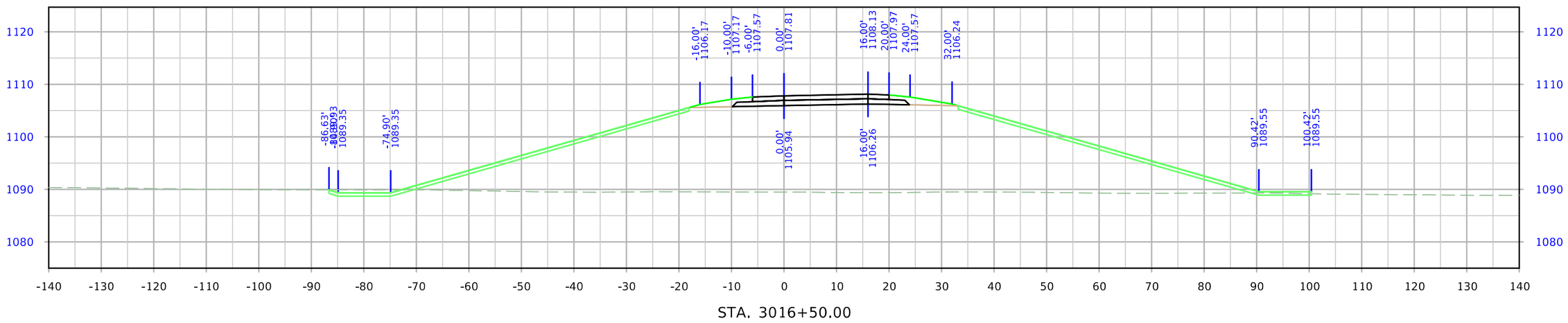
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.33 |
|---|---|---|---|---|---|

9:40:35 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

# I-29 Ramp C




STA. 3017+00.00

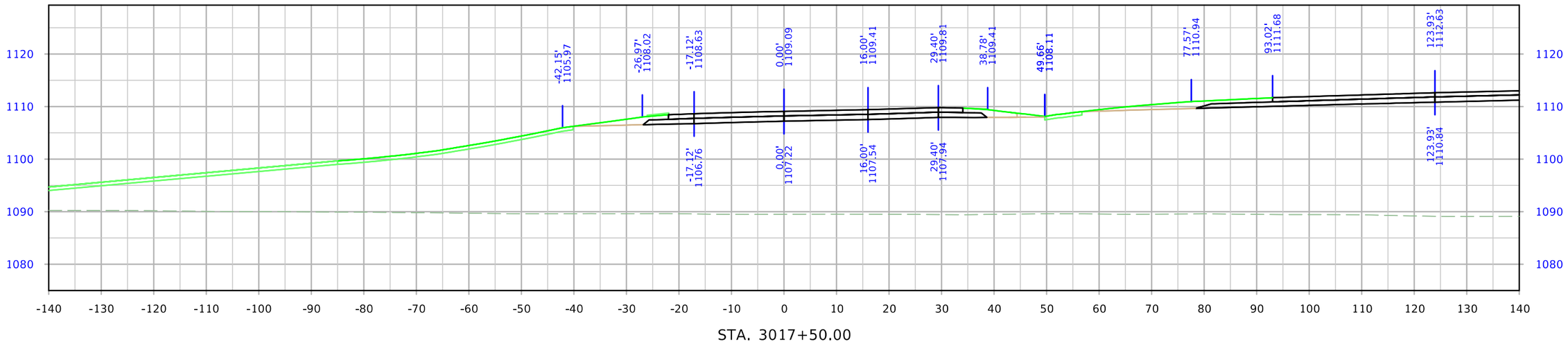



STA. 3016+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.34 |
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9:40:37 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

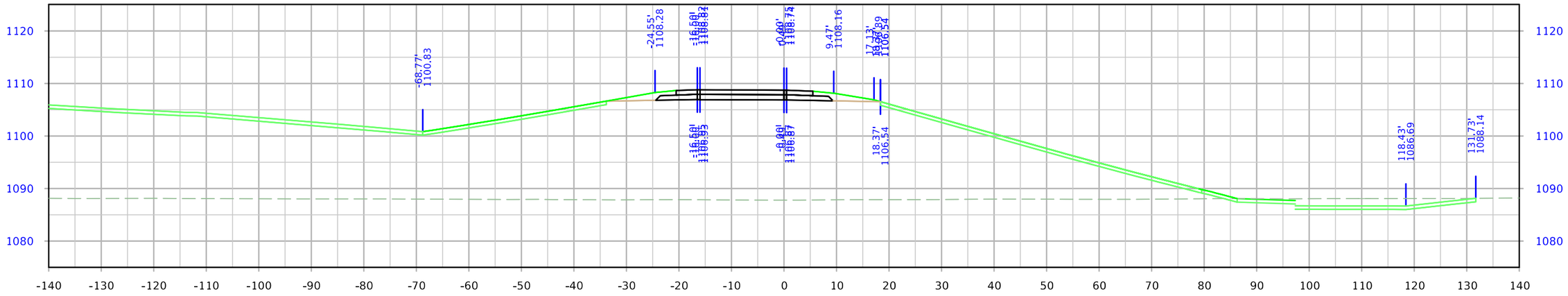
# I-29 Ramp C



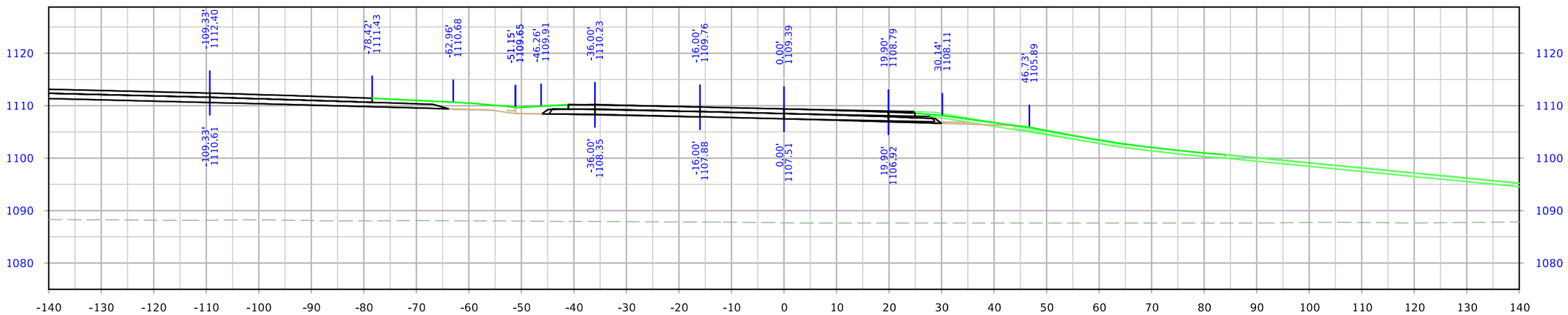

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.35 |
|---|---|---|---|---|---|

9:40:39 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPC_97029278Z04.dgn

# I-29 Ramp D




STA. 4001+00.00

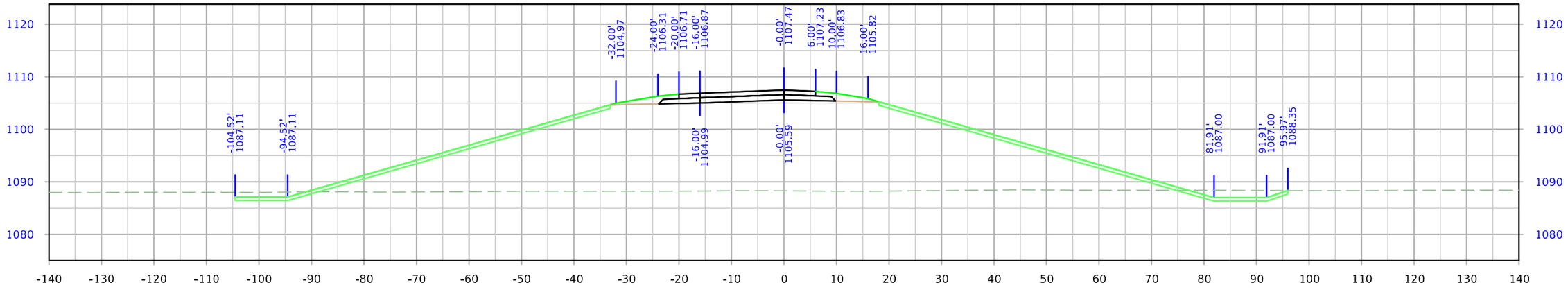



STA. 4000+50.00

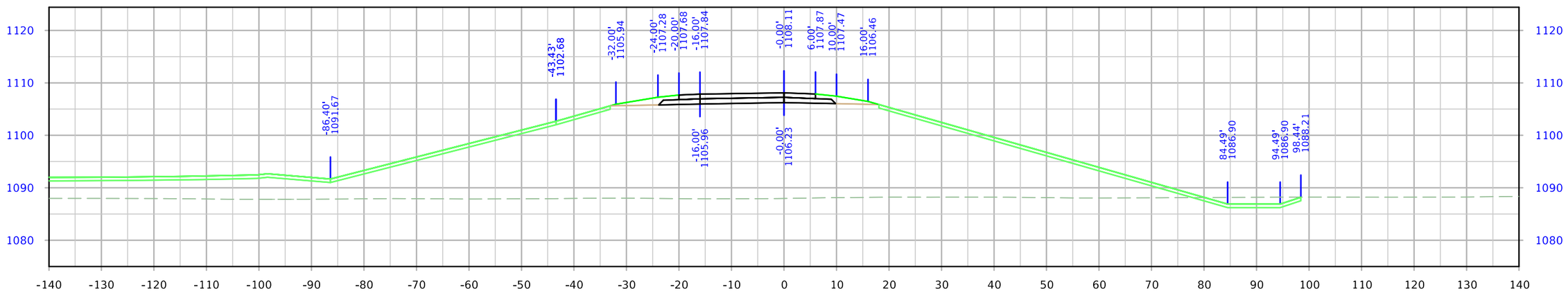
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.36 |
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9:40:56 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

# I-29 Ramp D




STA. 4002+00.00

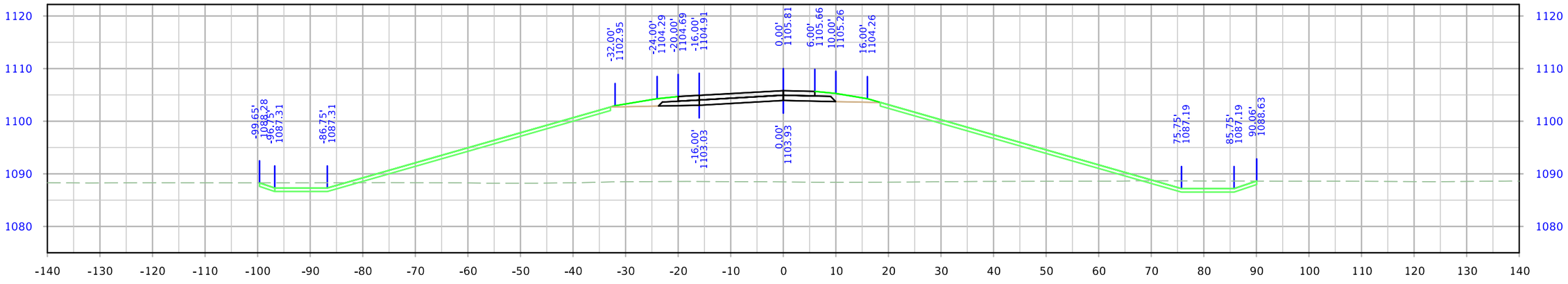



STA. 4001+50.00

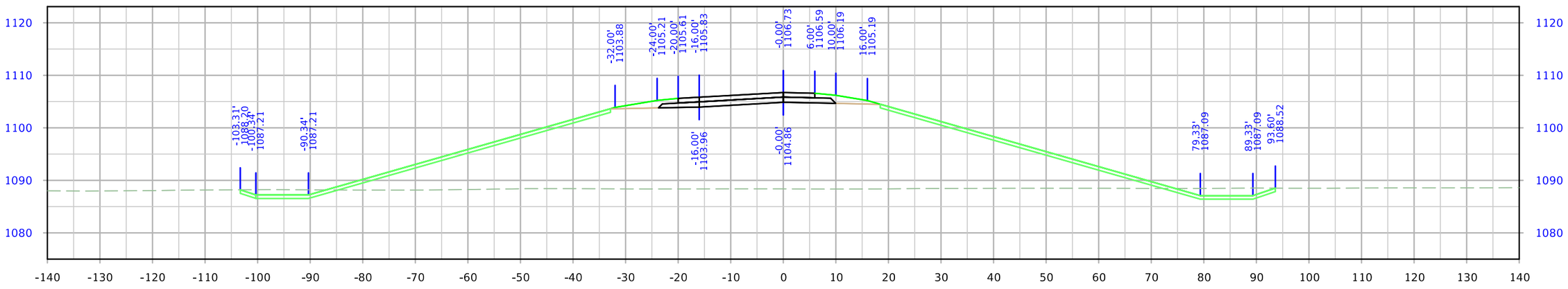
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.37 | |
|---|---|---|---|---|---|---|

3:46:18 PM 12/21/2023 bcharipar pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

# I-29 Ramp D




STA. 4003+00.00

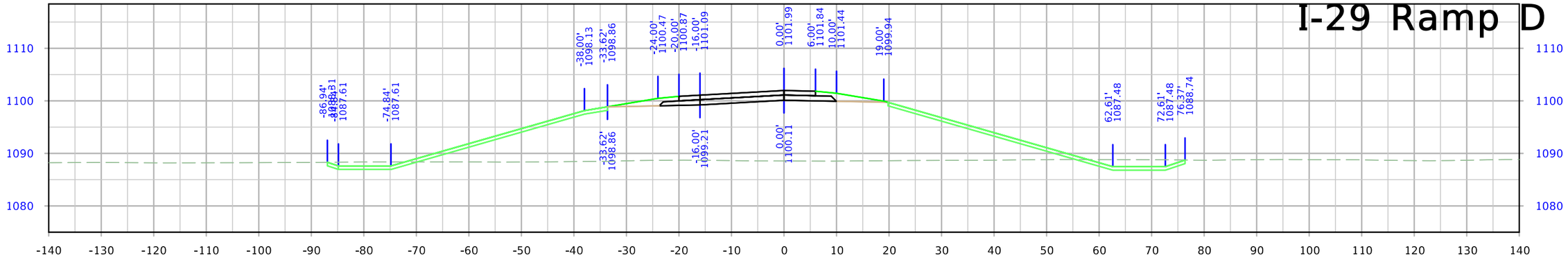



STA. 4002+50.00

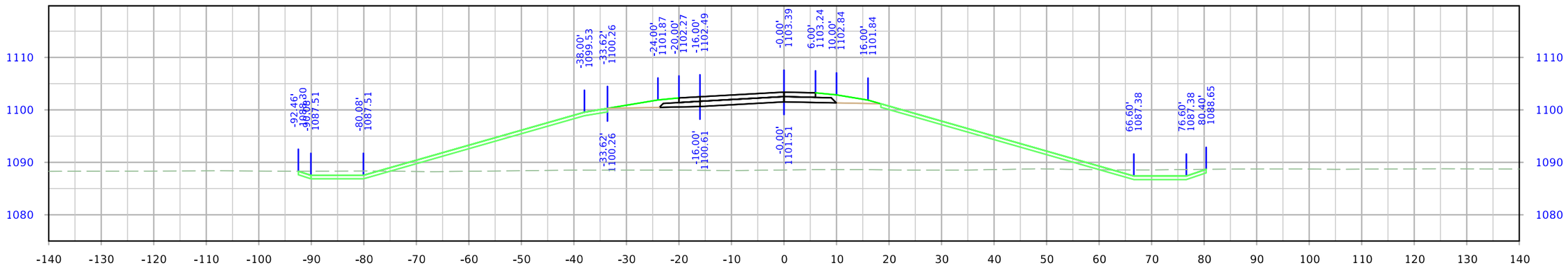
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.38 |
|---|---|---|---|---|---|

9:41:00 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

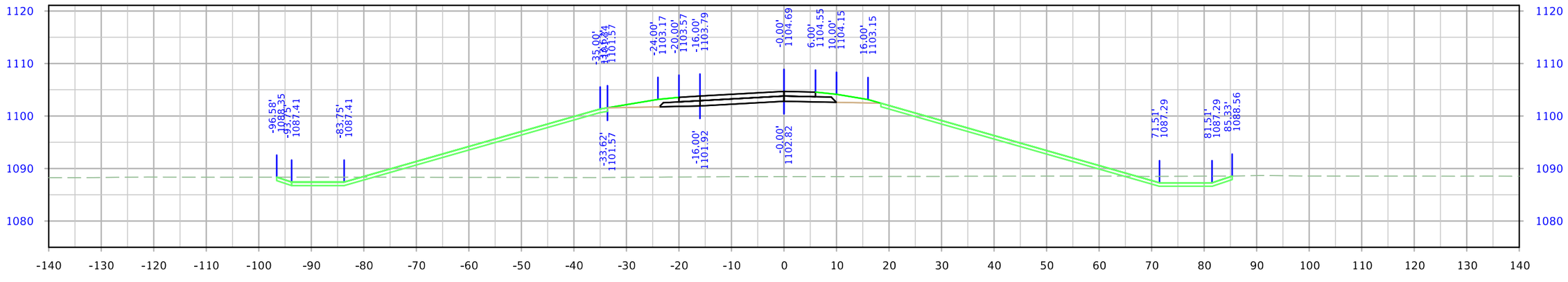
# I-29 Ramp D




STA. 4004+50.00




STA. 4004+00.00

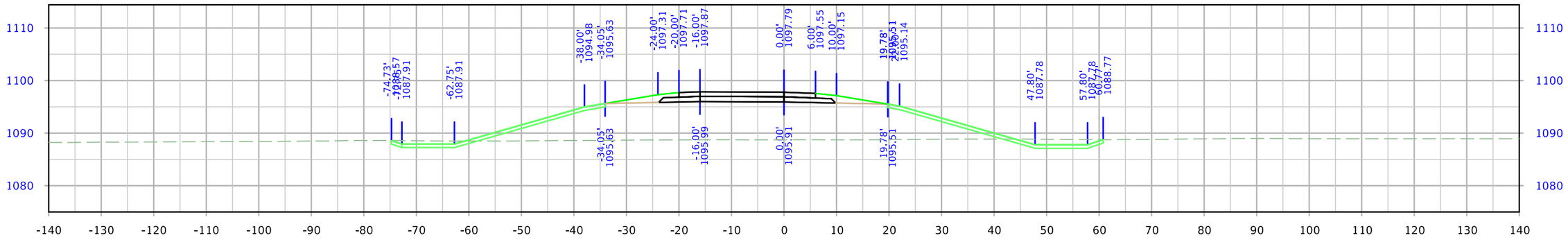



STA. 4003+50.00

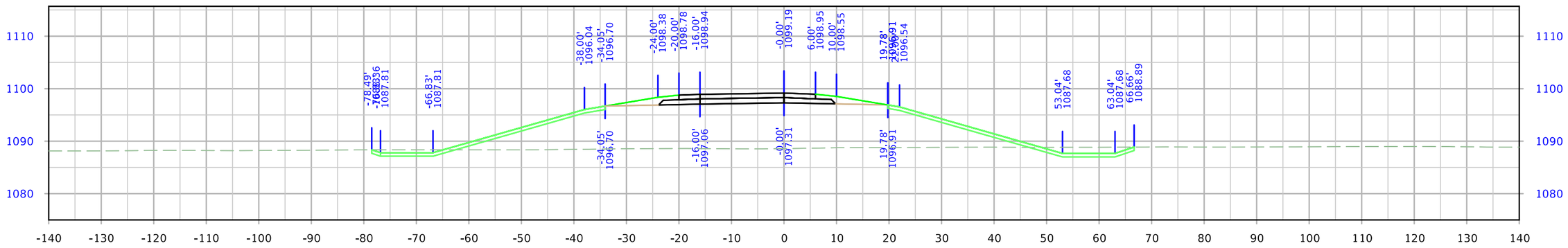
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.39 |
|---|---|---|---|---|---|

9:41:02 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

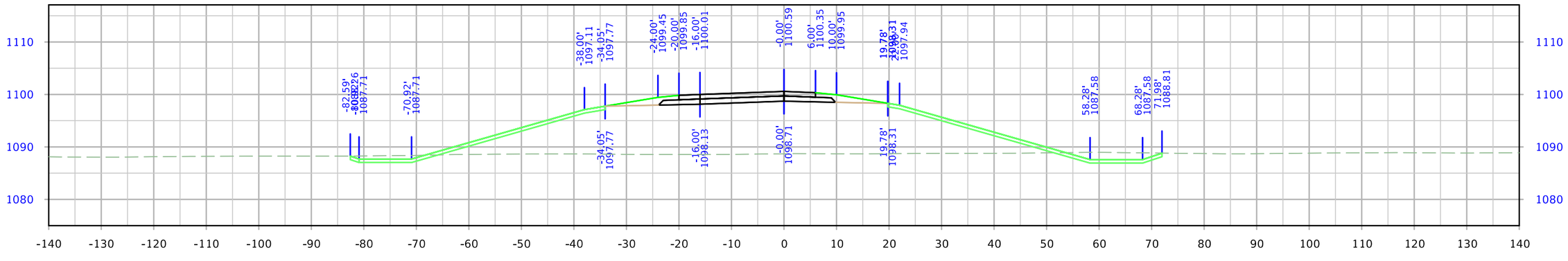
# I-29 Ramp D




STA. 4006+00.00




STA. 4005+50.00

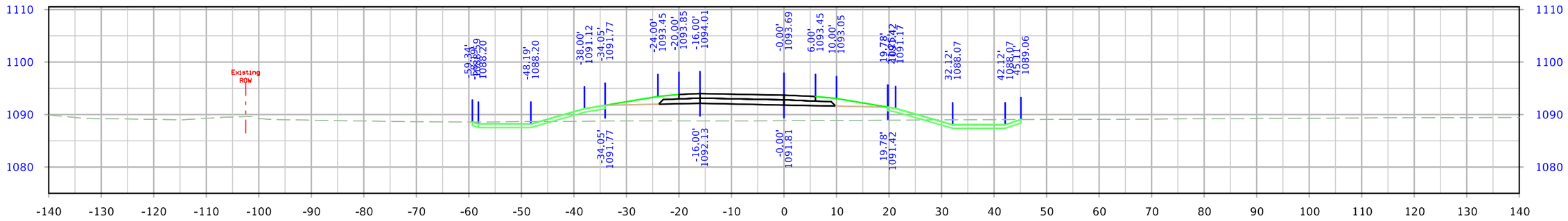



STA. 4005+00.00

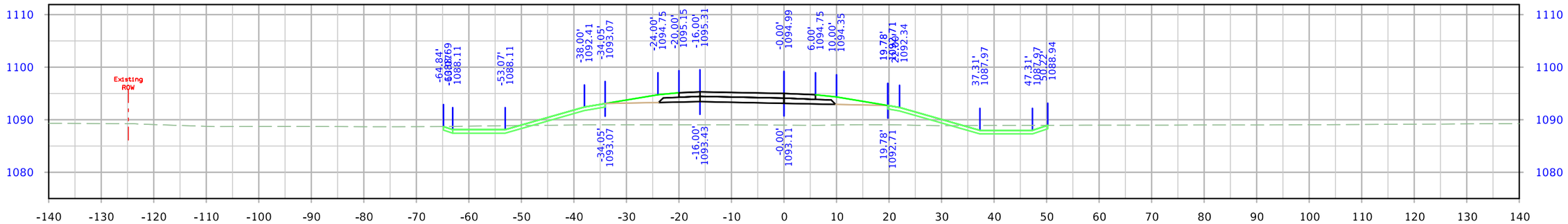
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.40 |
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9:41:04 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

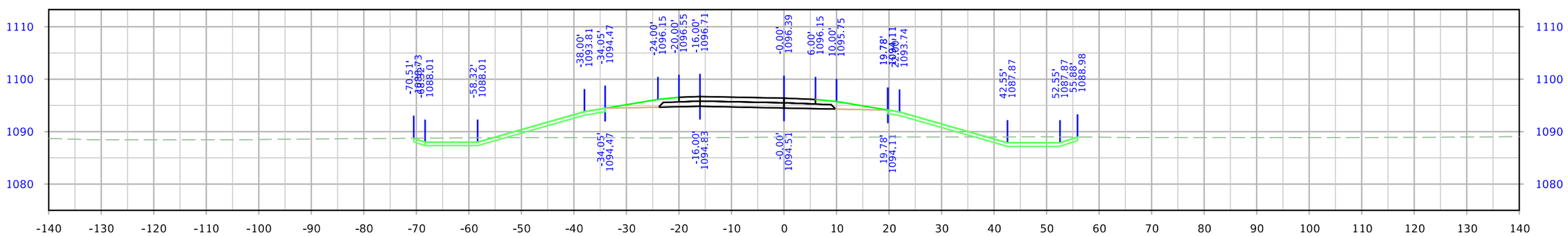
# I-29 Ramp D




STA. 4007+50.00




STA. 4007+00.00

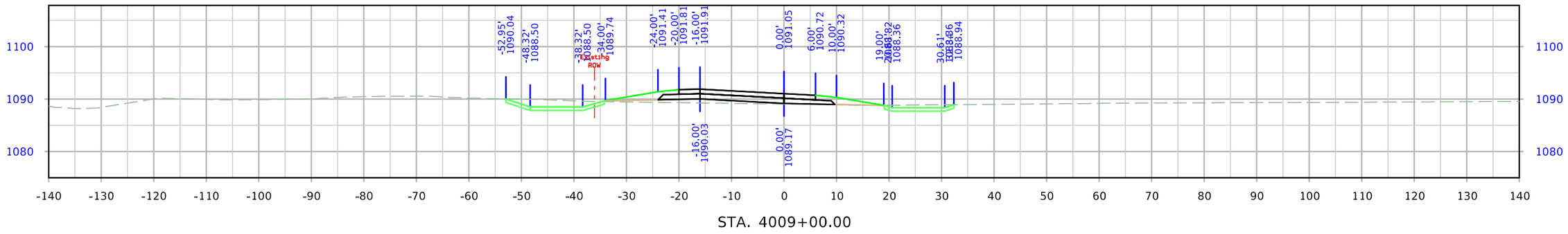



STA. 4006+50.00

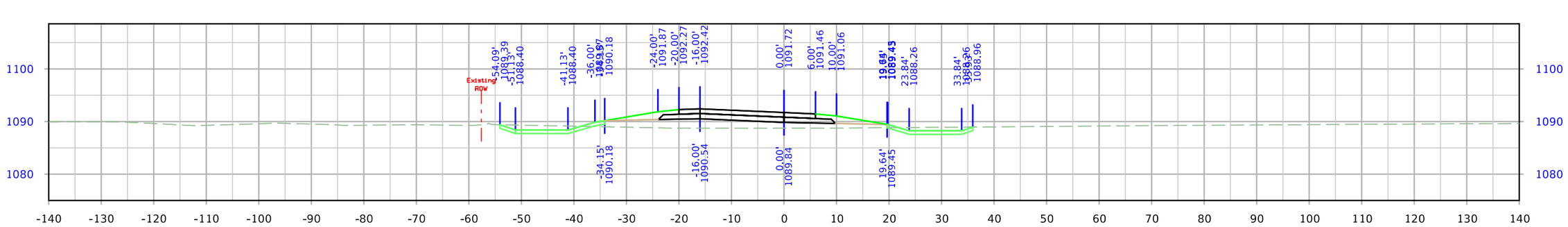
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.41 |
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9:41:06 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

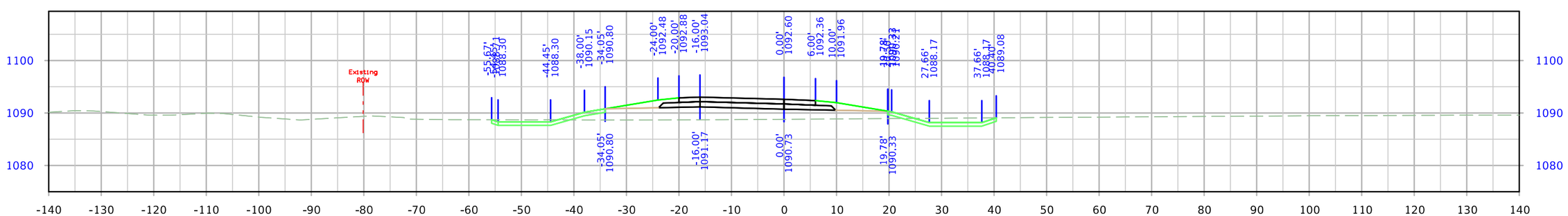
# I-29 Ramp D




STA. 4009+00.00




STA. 4008+50.00

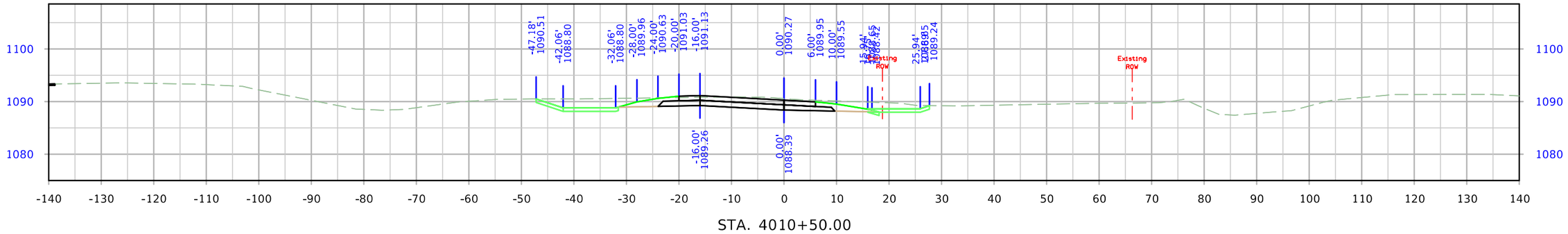



STA. 4008+00.00

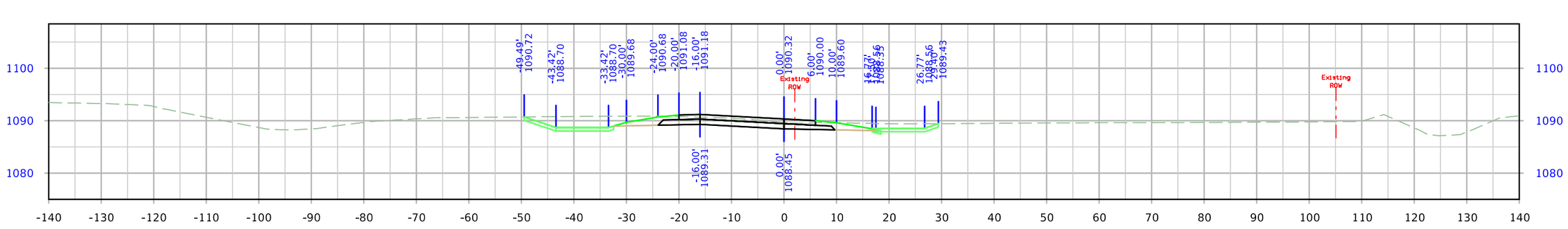
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.42 |
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9:41:08 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

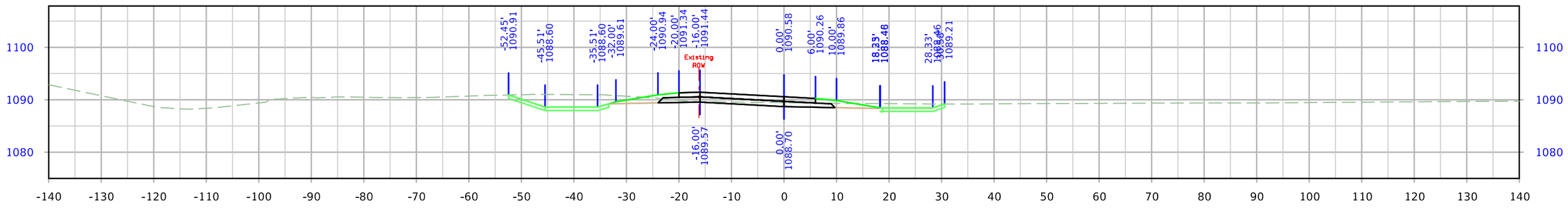
# I-29 Ramp D




STA. 4010+50.00




STA. 4010+00.00

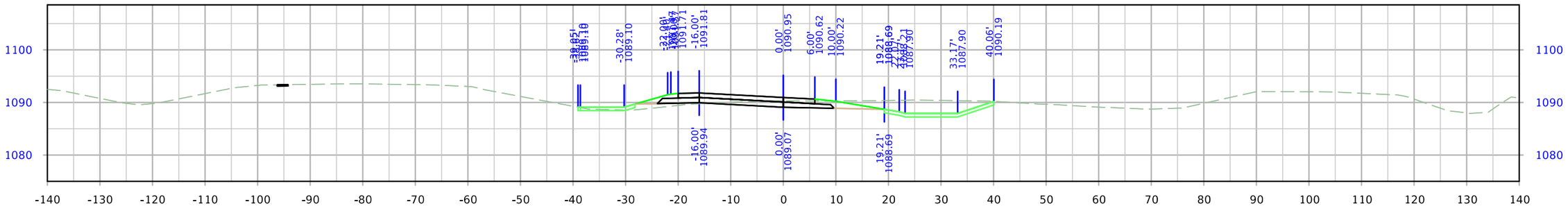



STA. 4009+50.00

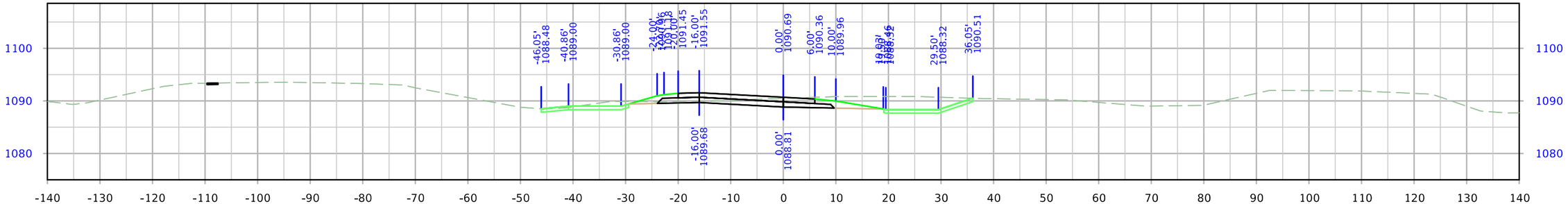
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.43 |
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9:41:10 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

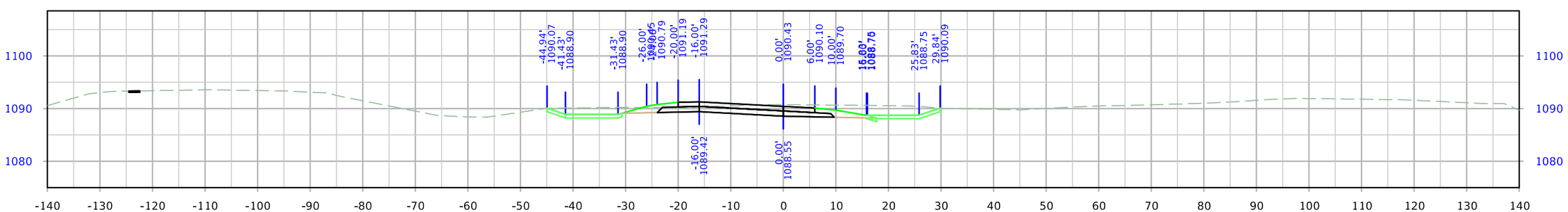
# I-29 Ramp D




STA. 4012+00.00




STA. 4011+50.00

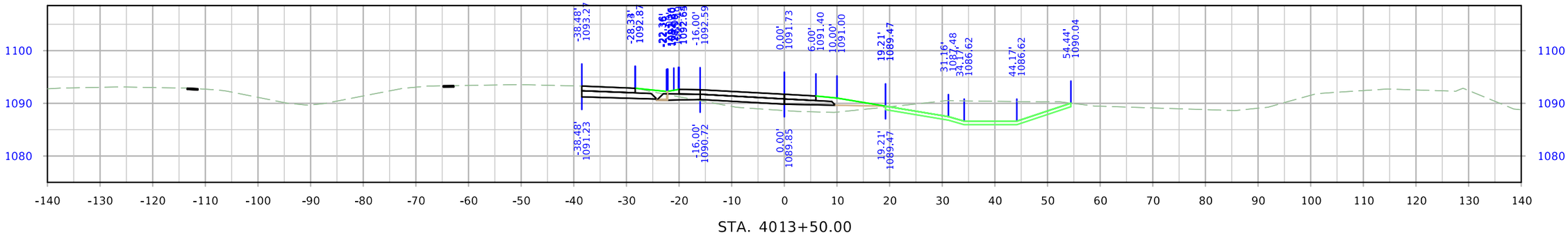



STA. 4011+00.00

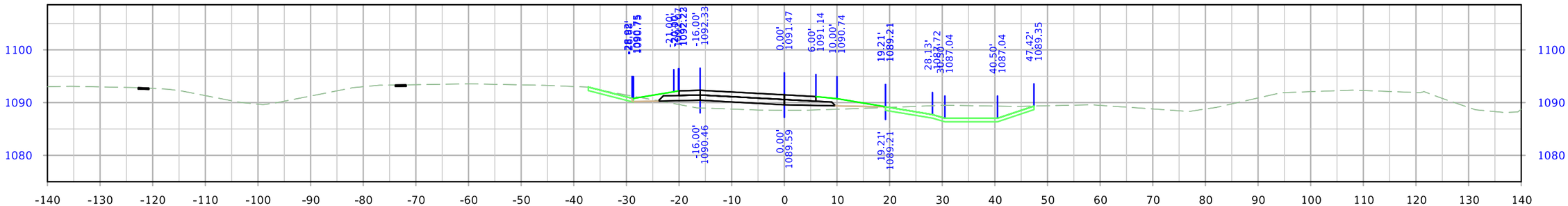
| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.44 |
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9:41:13 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn

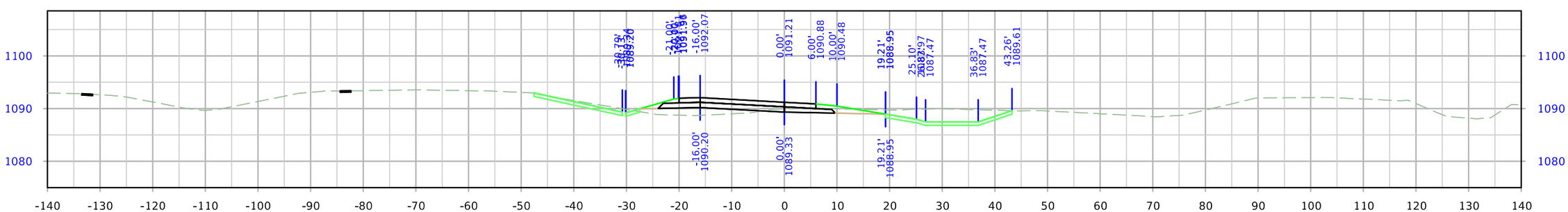
# I-29 Ramp D




STA. 4013+50.00




STA. 4013+00.00




STA. 4012+50.00

| FILE NO. | ENGLISH | DESIGN TEAM Iowa DOT / HNTB | WOODBURY COUNTY | PROJECT NUMBER IMN-029-6(170)139--0E-97 | SHEET NUMBER Y.45 |
|---|---|---|---|---|---|

9:41:15 AM 12/20/2023 nschuler pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\9702901006\Design\CADD_Files\Cross_Sections\XS_RPD_97029278Z04.dgn