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PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
Osceola COUNTY
RCB Culvert Replacement - Single Box
Approx 0.2 mi S of 250th St

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



REVISIONS

TOTAL	
24	
PROJECT IDENTIFICATION NUMBER	
24-72-059-010	
PROJECT NUMBER	
STPN-059-9(019)--2J-72	
R.O.W. PROJECT NUMBER	
STPN-059-9(020)--2J-72	

DESIGN DATA RURAL			
2027	AADT	1450	V.P.D.
2047	AADT	1750	V.P.D.
20 --	DHV	--	V.P.H.
TRUCKS		26	%
Total Design ESALs		--	

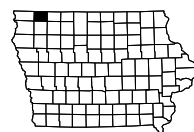
INDEX OF SEALS			
SHEET NO.	NAME	TYPE	BID QUANTITY SHEETS
A.1	X	Primary Signature Block	X
X	X	X	X

D5 PLAN - Date: 6-20-25
D4 PLAN - Date: 11-17-26

PRELIMINARY PLANS

Subject to change by final design.

D2/D3 PLAN - Date: 3-14-25



IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE:

District 3

ATTENTION:

Jessica Felix

FROM:

John Bartholomew

BUREAU:

Design

SUBJECT:

Project Concept Statement; (Final Approval, D0)

DATE:

December 24, 2024

PROJECT:

Osceola County
STPN-059-9(019)--2J-72
PIN: 24-72-059-010

This project involves the replacement of the US 59 culvert approximately 0.2 miles south of 250th Street.

A concept review was held on Oct 08, 2024. Those present included Darwin Bishop, Shane Tymkowicz, Todd Huju, and Kirk Johnson from the District 3 Office; Jimmy Ellis from the Bridge and Structures Bureau; Brock Struecker, Beth Kramer, Jim Galliard, Michael Carlson, and Shawn Goetz from the Location and Environment Bureau; Heidi Lane, and Jordan Zacny from HNTB and Jackson Lewis, Anthony Apland, John Bartholomew, and Kevin Patel from the Design Bureau.

One alternative was considered:

1. Replacement of the existing 10 ft. x 5 ft. culvert with a with a twin 8 ft. x 6 ft. culvert
- The estimated cost of this alternate is **\$ 396,500.**

Alternative 1 is the preferred alternative. Additional right of way/right of entry will not be required. Traffic will be maintained by an off-site detour.

The Draft Project Concept Statement was sent out for review and comment with concerns to be resolved by Monday, December 16, 2024. Comments received during the review period have been considered and resolved.

This project is recommended for construction in FY 2027. The Bridges and Structures Bureau will coordinate plan preparation with assistance from the Design Bureau.

JEB: JDL
Attach.
cc:

C. Purcell
M. Dell
M. Swenson
S. Majors
D. Newell
W. Sorenson
A. Welch
B. Hofer
S. Anderson
K. Patel
B. Dolan
S. Tymkowicz
M. Thayer
S. Ebel
T. Frank
R. Meyer
K. Olson
H. lane (HNTB)

M. Kennerly
J. Nelson
D. Sprengeler
A. Poole
B. Bradley
E. Wright
J. Harris
G. Karssen
D. Stokes
R. Harris
T. Lovan
A. Yates
J. Becker
T. Huju
J. Ellis
M. Khoda
S. Neubauer
J. Zacny (HNTB)

K. Nicholson
M. Nop
C. Poole
K. Brink
J. Laaser-webb
M. Ross
M. Van Dyke
B. Azeltine
M. Todsén
J. Bartholomew
M. Carlson
B. Struecker
S. Sersland
J. Hauber
A. Apland
FHWA

DRAFT PROJECT CONCEPT STATEMENT

US 59 culvert approximately 0.2 mi south of 250th Street.

Osceola County
STPN-059-9(019)--2J-72
PIN: 24-72-059-010

Highway Division
Design Bureau

John Bartholomew, P.E.
515-239-1540

Dec 24, 2024

I. STUDY AREA

A. Project Description

This project involves the replacement of the US 59 culvert approximately 0.2 mi South of 250th Street. The project will extend approximately 18 ft. beyond the existing culvert on both sides of the culvert.

One alternative was considered:

1. Replacement of the 10 ft. wide x 5 ft. tall x 41 ft. long culvert with a twin 8 ft. wide x 6 ft. tall x 64 ft long. RCB culvert. The estimated cost of this alternate is **\$ \$396,500.**

B. Need for Project

The culverts have reached the end of their service life and are in a deteriorated condition. Therefore, replacement is required.

C. Present Facility

The existing structure is 10 ft. wide x 5 ft. tall x 42 ft. long, Culvert constructed in 1937. US 59 in the project area is 24 ft. wide HMA pavement with 6 ft. wide granular shoulders and 1.5:1 foreslopes, constructed in 1937. HMA resurfacing was accomplished in 2001. (see page 2 for imagery)



Upstream Channel from Roadway



Downstream Channel from Roadway



Upstream Face of Culvert



Downstream Face of Culvert

D. Traffic Estimates

The 2027 construction year and 2047 design year average daily traffic estimates are 1450 ADT with 26 % trucks and 1750 ADT with 26 % trucks, respectively.

E. Sufficiency Ratings

US 59 is classified as an Access route and is a maintenance service level C roadway.

F. Access Control

Access rights will not be acquired for this project.

G. Crash History

During the five-year study period from January 1, 2018, through December 31, 2023, there were 2 crashes including, 2 personal injury crashes.

PCR value for this segment is listed as: -0.185 crash/mile/year for all crashes (negligible).

II. PROJECT CONCEPT

A. Replace With a Culvert

The existing 10 ft. wide x 5 ft. tall x 42 ft. long culvert will be replaced with a twin 8 ft. wide x 6 ft. tall x 64 ft. long reinforced concrete box (RCB) placed at a 0 degree right ahead skew. Removal of 45 ft. of pavement will be required to facilitate construction of the new culvert. The typical cross section will consist of a 24 ft. wide, 9.5 in. depth PCC roadway with 12 in. modified subbase, 6 ft. granular shoulders, and 6:1 foreslopes. The new foreslopes will flatten out to meet the new top of the RCB

The roadway will be reconstructed on the existing vertical and horizontal alignment. The flow line of the box will be buried 1 ft. below the existing flow line in the channel, this will allow the bottom of the box to silt in and provide a natural bottom for fish passage. The existing ditches will need to be relocated to meet the inlet and outlet flowlines of the new RCB. Class E revetment will be placed at the ends of the RCB.

Apply erosion control and rural seeding and fertilizing to all disturbed areas.
Right of way does not appear to be required for this project.
Traffic will be maintained by an off-site detour.

Bridge Items	Estimated Costs
New Culvert	\$ 214,400
Removal	500
Excavation Class 10, Roadway +Borrow	7,200
Mobilization - 10%	22,200
M & C - 15%	48,900
Bridge Costs	\$ 293,200

Roadway Items

Removal of Pavement	1,900
PCC Pavement	9,000
Modified Subbase	4,800
Flooded Backfill	7,000
Granular Shoulder	1,500
Embankment in place, contractor furnished	2,500
Excavation Class 13 Waste	5,500
Seeding and Fertilizing	500
Pavement Marking	1,800
Erosion Control	10,000
Wetland Mitigation	50,000
Traffic Control - 5%	2,200
Mobilization - 5%	2,200
M & C - 10%	4,400
Roadway Costs	\$ 103,300

Project Total	\$396,500
---------------	-----------

B. Detour Analysis

US 59 will be closed, and an offsite detour will be utilized. It is anticipated the detour will be in place for approximately 120 days. The detour would follow 250th Street east at the junction of U.S. 59 and 250th Street to 1st / Sorrel Ave in the town of Melvin, then South on 1st / Sorrel Ave to U.S. 18 then west to the junction of U.S. 59. Out of distance travel is 4.1 miles. The total distance user cost is anticipated to be \$199,584. The cost for county road maintenance will be \$12,710 as calculated by the Gas Tax Method. Detour signing costs will be \$10,000.

C. Recommendations

It is recommended that the present structure be Replacement, as described above.

D. Construction Sequence

It is anticipated that all work on this project will be awarded to one prime contractor. The Bridges and Structures Bureau will coordinate the plan preparation with assistance from the Design Bureau.

E. ADA Accommodations

There are no bike paths or sidewalks adjacent to US 59; therefore, no ADA accommodations are planned in conjunction with this project.

F. Special Considerations

Waterway is not on a state water trail or paddling route.

Right of Way does not appear to be required for this project.

The Location and Environment Bureau has reviewed this project has determined that a Section 404 Permit will be required. It is expected that the work will be covered by Nationwide Permit 14.

G. Program Status

Site data has been developed by the Design Bureau. This project is listed in the 2024-2028 Iowa Transportation Improvement Program, with \$10,000 programmed for right of way in FY 2027, and \$500,000 for Replacement in FY 2027. Costs for this project may be eligible for bridge replacement funds. A schedule of events will be developed following approval of the Project Concept.

JEB: JDL

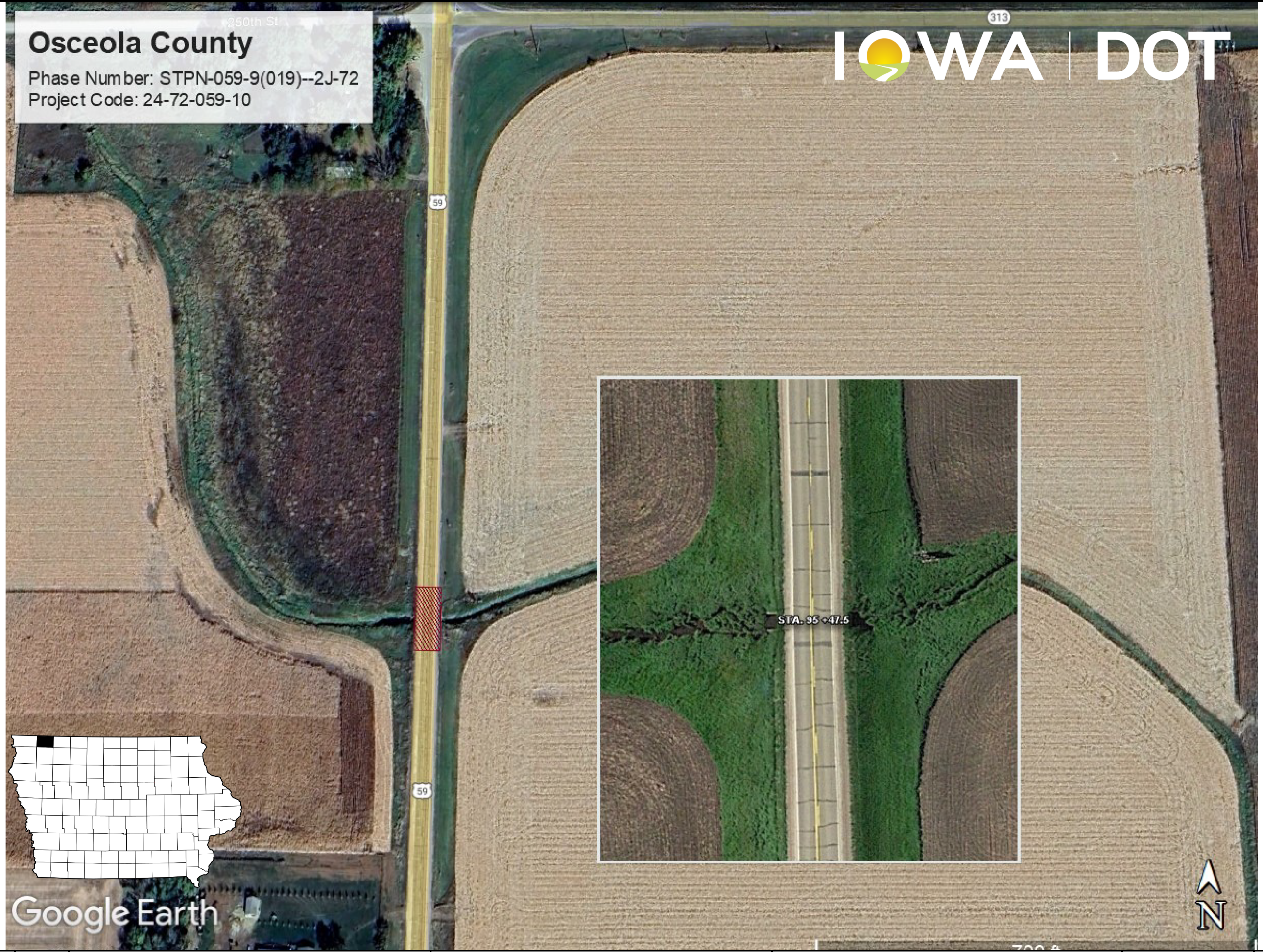
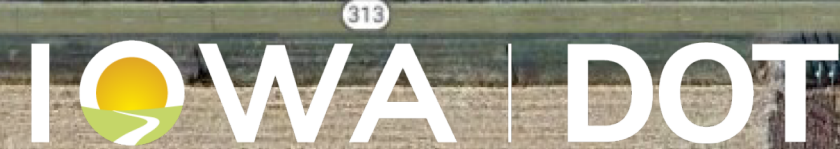
Utilities

ALLIANT ENERGY
Alliant Energy Field Engineer
8002554268 locate_IPL@alliantenergy.com

OSCEOLA COUNTY RURAL WATER
Douglas Westermann
7127356795 orwsdoug@windstream.net

WINDSTREAM COMMUNICATIONS
LOCATEDESK
8002891901 LOCATE.DESK@WINDSTREAM.COM

250th St
Osceola County
Phase Number: STPN-059-9(019)--2J-72
Project Code: 24-72-059-10



Google Earth



PROPOSED DETOUR ROUTE

RCB Replacement along US-59
over North Fork Floyd River
Phase No.: STPN-059-9(019)--2J-72
Project Code: 24-72-059-010

Sanborn, IA

Local Traffic Only
US-59
Approx. 6.9 mi.

Project Location
Closure Length
Approx. 0.1 mi.

Detour Segment
US-18 / 320th St.
2 mi.

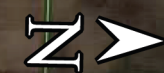
Detour Segment
A48 / 250th St.
2 mi.

Detour Segment
L50 / Sorrel Ave.
7 mi.

Melvin, IA

Google Earth

Image © 2024 Airbus



2 mi

FILE NO.

ENGLISH

DESIGN TEAM Jia / Schrock / Evans

Osceola COUNTY

PROJECT NUMBER STPN-059-9(019)--2J-72

SHEET NUMBER A.8

1:47:30 PM

3/11/2025

jevans4

pw:\NTPwint1.dot.int.lan:PWMain\Documents\Projects\7205901024\Design\CADD_Files\Sheet_Files\SHT_72059019_A01.dgn

Bridge Bureau Attachment for Concept Statement

Date: October 24, 2024
By: HNTB
Location: US 59 over North Fork Floyd River

County: Osceola County
Phase No.: STPN-059-9(019)-2J-72
Project Code: 24-72-059-010

1. Regulatory/Coordination
- a. Iowa DNR Flood Plain permit = No, rural, drainage area 2.3 sq. mi.

b. Iowa DNR Sovereign Lands permit = No

c. Local Record of Coordination = No

d. Flood Insurance Study = No

e. Drainage District = No

f. Corps of Engineers Section 408 = No

g. State Water Trail or Paddling Route = No

h. Historic Structure = No

i. Federally owned land in vicinity = No

j. USGS or Iowa Flood Center (IFC) gage or sensor impacted? No
2. Hydrologic/Hydraulic Analysis/RIDB Dataset
- a. Design discharges determined = Yes (USGS 13-5086)

b. Hydraulic analysis done = Yes, Iowa DOT Culvert Program

c. If DA > 10 sq. mi. Riverine Infrastructure Database (RIDB) dataset is required with B1 submittal = No
3. Structure/Roadway Layout Considerations
- a. Roadway profile grade raise is not anticipated.
4. Special construction issues
- a. Standing water in the culvert barrel may be encountered during construction which may require temporary pumping.

b. Potential temporary relocation of Melvin sign and solar.

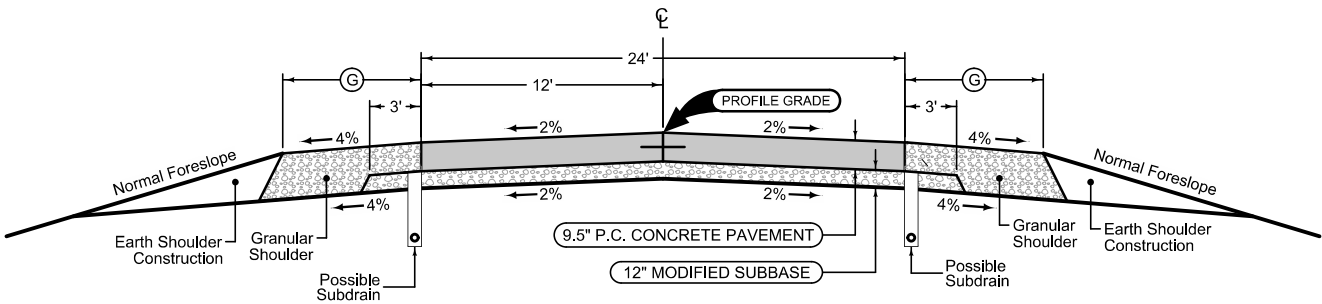
c. Rural water parallel to roadway in western ditch and potential utility relocation.

d. Local wildflowers on northwest quadrant indicating potential CRP.

e. Existing 12" CMP tile lines outlet into the channel from the southeast upstream of the existing CCS wingwalls. These tile lines will conflict with the proposed culvert grading and will require re-alignment during post concept design of this crossing.
5. Special survey = No
6. Aesthetic enhancements = No
7. Other
- a. The roadway will be closed during construction with traffic placed on an off-site detour.

FIELD EXAM NOTES/QUESTIONS				FIELD EXAM NOTES/QUESTIONS					
	- Clear Zone is 26' but the preliminary RCB limits are only 20' - Should we add granular material to the shoulders within the grading area to get them back to 4%? The are currently ~10%? - Do we want a safety edge, since we don't have paved shoulders?								
FILE NO.	ENGLISH	DESIGN TEAM Jia / Schrock / Evans		Osceola	COUNTY	PROJECT NUMBER	STPN-059-9(019)--2J-72	SHEET NUMBER	A.10

Granular Shoulder		
2_G_SR_ 04-21-20		
STATION TO STATION		Ⓔ Feet
95+15.00	95+80.00	6



Granular Shoulder		
2_G_SR_ 04-21-20		
STATION TO STATION		Ⓔ Feet
95+15.00	95+80.00	6

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

2P_ 04-21-20	
STATION TO STATION	
95+15.00	95+80.00

US 59 Paving

SURVEY SYMBOLS

	Interstate Highway Symbol		Septic Tank
	U.S. Highway Symbol		Cistern
	Iowa Highway Symbol		L.P. Gas Tank (No Footing)
	County Road Highway Symbol		Underground Storage Tank
	Evergreen Tree		Latrine
	Deciduous Tree		Satellite TV Dish
	Fruit Tree		Water Hook Up
	Shrub (Bushes)		Radio Tower
	Timber		Tower Anchor
	Hedge		Guardrail (Beam or Cable)
	Stump		Guard Post (one or two)
	Swamp		Guard Post (over two)
	Rock Outcrop		Filler Pipe
	Broken Concrete		Gas Valve
	Revetment (Rip Rap)		Water Valve
	Cemetery		Speed Limit Sign
	Grave		Mile Marker Post
	Cave		Sign
	Sink Hole		Traffic Signal Control Box
	Board Fence		Rail Road Signal Control Box
	Chain Link or Security Fence		Telephone Switch Box
	Wire Fence		Electric Box
	Terrace		
	Earth Dam or Dike (Existing)		
	Tile Outlet		
	Edge of Water		
	Existing Drainage		
	Right of Way Rail or Lot Corner		
	Concrete Monument		
	Well		
	Windmill		
	Beehive Intake		
	Existing Intake		
	Existing Utility Access (Manhole)		
	Fire Hydrant		
	Water Hydrant (Rural)		

UTILITY LEGEND

— W — **WL1D, Osceola Rural Water**

— T1 — **TL1D, Windstream Communications**

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS				
LINEWORK	Design Color No.			
Green	(2)		Existing Topographic Features and Labels	
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation	
Magenta	(5)		Existing Utilities	
SHADING	Design Color No.		Transparency	
Pink, Dark	(13)		Temporary Pavement Shading	50%
Yellow	(4)		Proposed Pavement Shading	50%
Orange	(6)		Proposed Granular Shading	50%
Orange	(70)		Proposed Shoulder Granular Shading	50%
Yellow	(68)		Proposed Shoulder Paved Full Depth Shading	50%
Yellow	(132)		Proposed Shoulder Paved Partial Depth Shading	50%
Brown, Light	(236)		Grading Shading	50%
Orange, Light	(134)		Proposed Granular Entrance Shading	50%
Yellow	(220)		Proposed Paved Entrance Shading	50%
Tan	(8)		Proposed Sidewalk Shading	50%
Blue, Light	(230)		Proposed Sidewalk Landing Shading	50%
Pink	(11)		Proposed Sidewalk Ramp Shading	50%
Red	(3)		Proposed Structure Shading	50%
Red	(3)		Delineates Restricted Areas	0%

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

Reference Point

Station

 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 Symbol

 Proposed Right-of-Way Line

 Existing Right of Way

 Existing and Proposed Right-of-Way

 Easement and Existing Right-of-Way

 Easement (Temporary) Symbol

 Easement (Temporary) Line

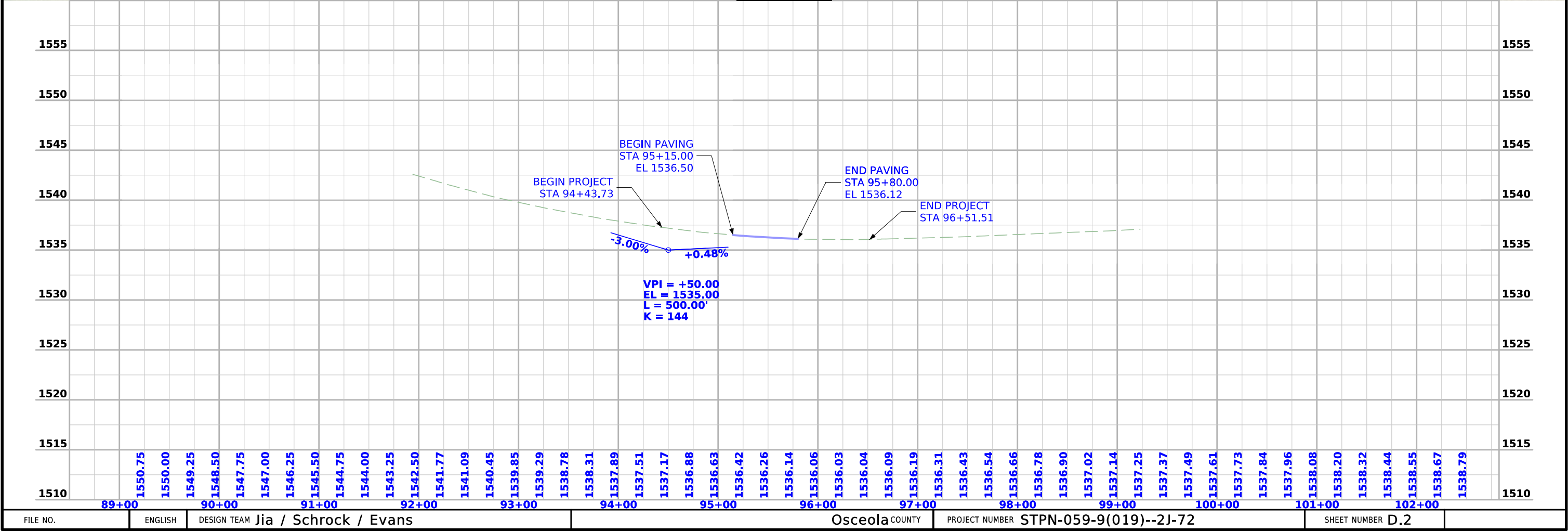
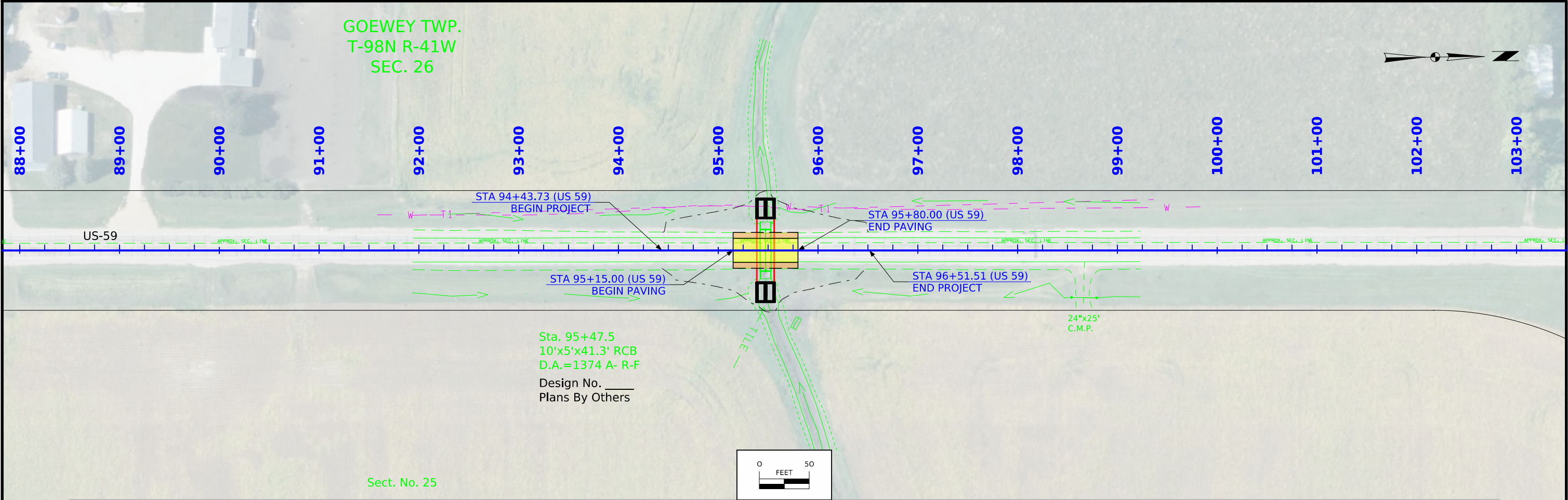
 Easement

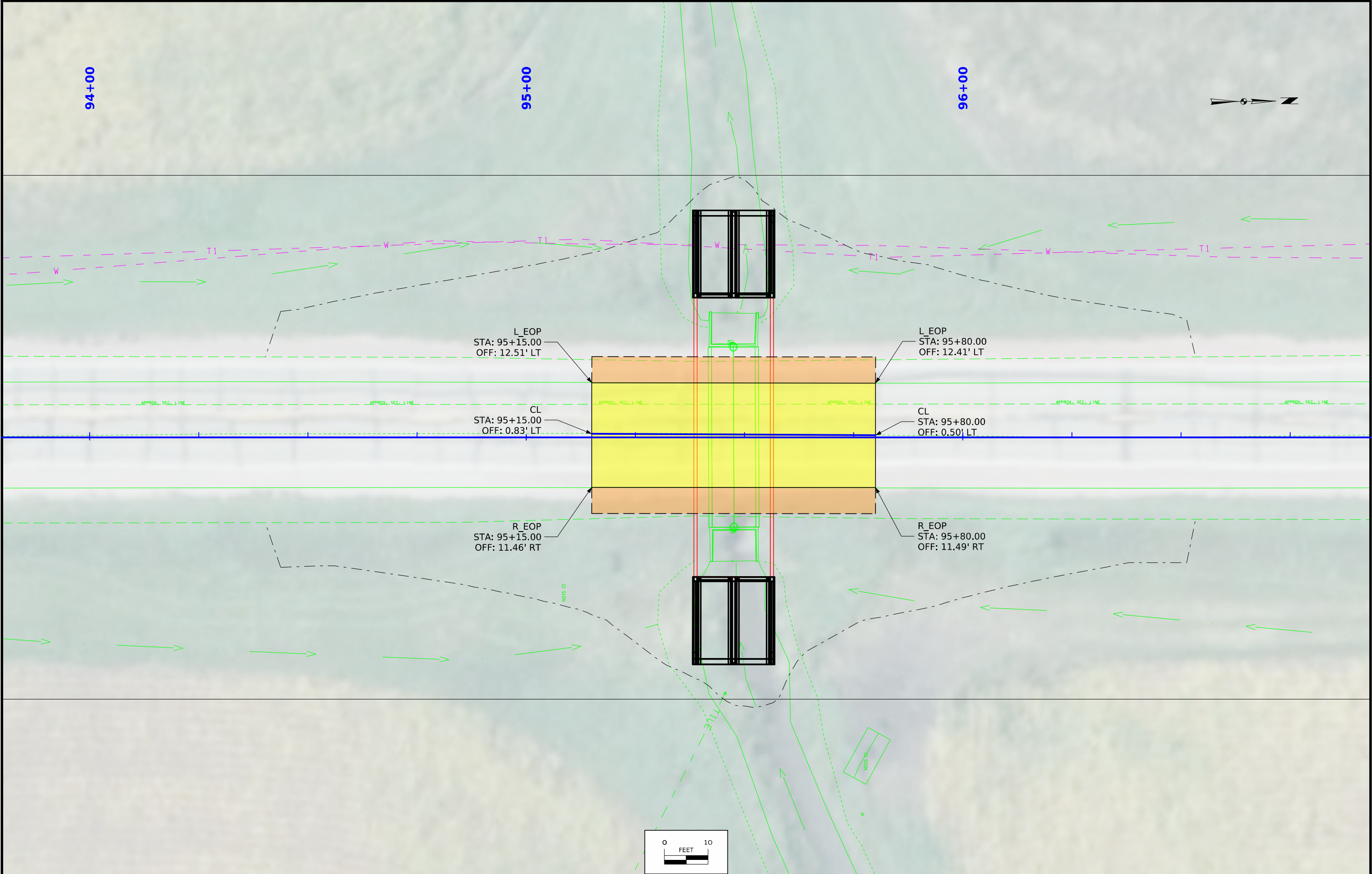
C/A Access Control

 Property Line Symbol

 Property Line

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





SURVEY INDEX

County: Osceola
PIN: 24-72-059-010
Project Number: STPN-059-9(019)--2J-72
Location: Approx 0.2 mi S of 250th St
Type of Work: Culvert
Project Directory: 7205901024

Survey Personnel

Daniel Duncan – Survey Party Chief

Date(s) of Survey

Begin Date 05/20/2024
End Date 06/12/2024

General Information

This survey is for US Hwy 59 Box Culvert Project This project is a Full Field DTM survey.

Utility Information

For logging data and other utility details see Utility Survey and Ownership Report in the Utility folder of the PrelimSurvey project directory.

Project Control

Coordinates were determined for primary project control points by conducting concurrent six-hour static observations. Post processing is constrained to nearby Iowa Real Time Network reference stations. For additional details of the control survey, contact the Preliminary Survey department.

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 01
(U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for U.S. Hwy 59 this survey is a retrace of As-built Plans No. FA-734AB. Survey stationing was equated to the plan 10FT X 5FT RCB at Sta. 95+47.5 and carried back and ahead without equation throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PI Sta. 80+41.8 As-built Plans Project No. FA-734AB
Survey PI Sta. 80+41.51

10FTX5FT RCB Sta. 95+47.5 As-Built Plans Project No. FA-734AB
Survey Sta. 95+47.50

NE Cor. Sec. 26 Sta. 105+98.8 8.3’ Lt As-built Plans Project No. FA-734AB
Survey Station. 105+98.14 8.31’ Lt

E ¼ Cor. Sec. 23 Sta. 132+49.3 1.8’ Rt As-built Plans Project No. FA-734AB
Survey Sta. 132+48.99 1.80’ Rt

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.



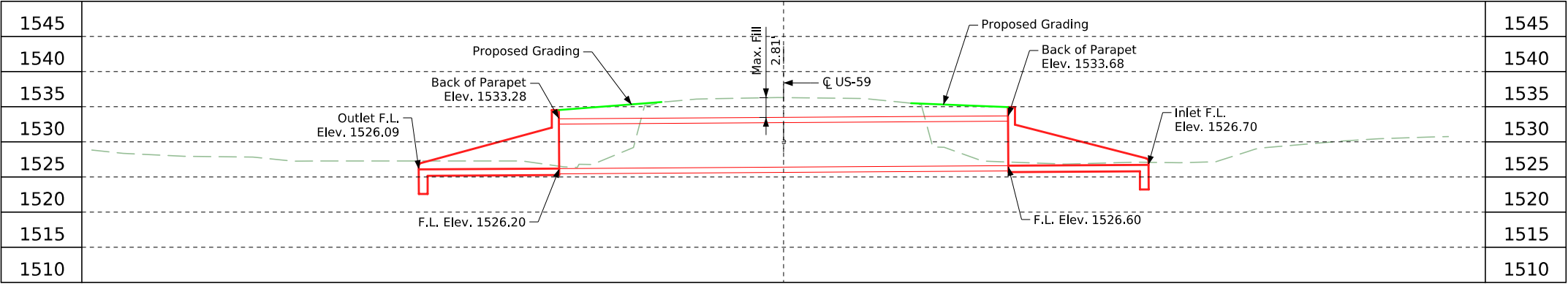
HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 01 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

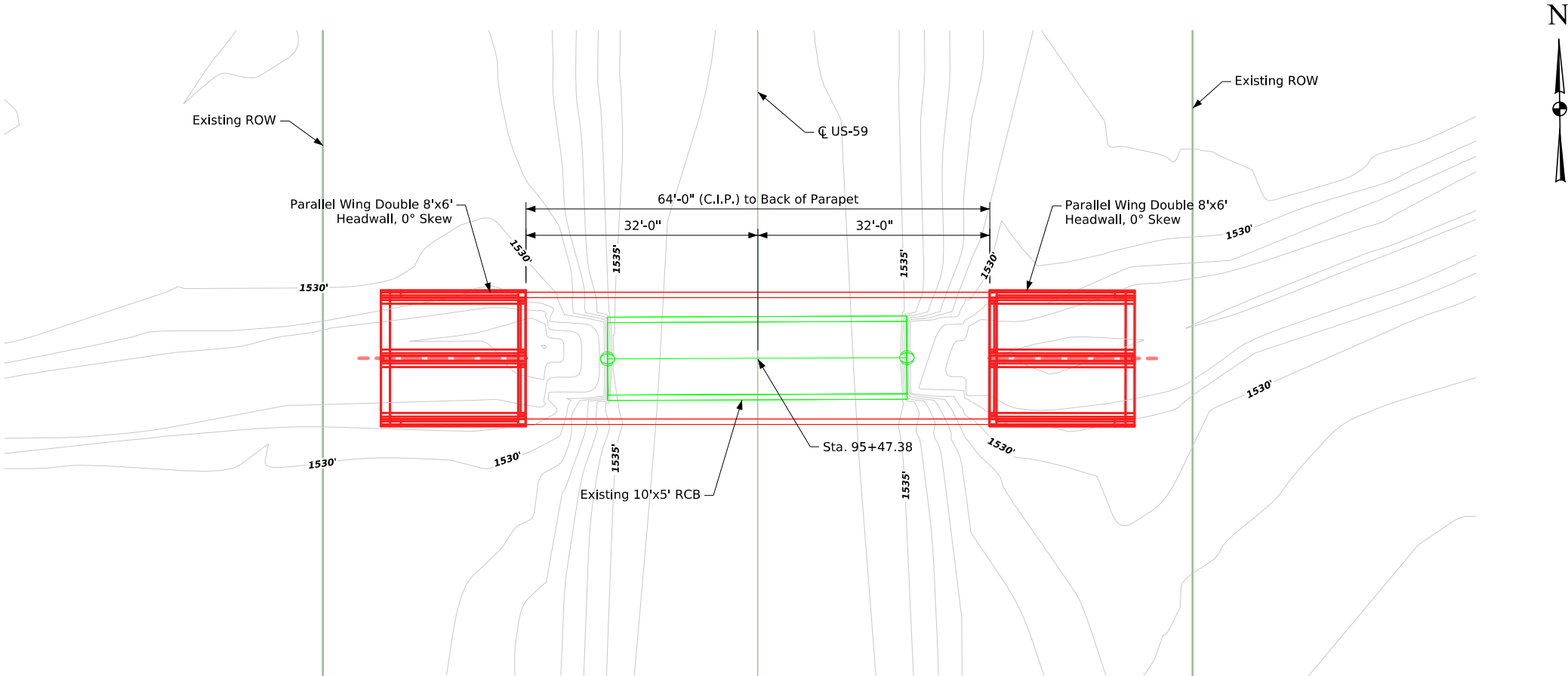
Coordinate listing from next sheet will be used with IaRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING
HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment)
Ia. Regional Coordinate System Zone 01 (U.S. Survey Foot)
VERT. DATUM: NAVD88
Geoid Model: 2018u3

Point Name	Northing	Easting	Elevation	Code-Description
7225001	9632113.91	11393441.96	1526.85	CP SET FENO MONUMENT 0.2 MI WEST OF US 59 AND 250TH STREET INTERSECTION
7225002	9632182.41	11397740.40	1559.96	CP SET FENO MONUMENT 0.5 MI EAST OF US 59 AND 250TH STREET INTERSECTION
720592008	9630659.45	11395110.34	1544.76	CP SET FENO MONUMENT 0.3 MI SOUTH OF US 59 AND 250TH STREET INTERSECTION
720592018	9636230.94	11395084.35	1556.05	CP SET FENO MONUMENT 0.8 MI NORTH OF US 59 AND 250TH STREET INTERSECTION



Longitudinal Section Along CL Culvert



Situation Plan

Hydraulic Data

RIDB: Not Applicable
Drainage Area = 2.3 Sq. Mi.
Stream Slope = 12.4 Ft./Mi.
 Q_{50} = 400 cfs
50 Yr. HW Elev. = 1534.41
Exit Velocity = 5.0 fps

Location

US-59 over North Fork Floyd River
T-98N R-41W
Section 25
Goewey Township
Osceola County
Latitude 43.284656°
Longitude -95.644065°

Design For 0 Skew

Twin 8'x6' Reinforced Concrete Box Culvert

Situation Plan - CIP

STA. 95+47.38 (US-59) Turn-in Date: Aug. 2024

Osceola County

IOWA DEPARTMENT OF TRANSPORTATION

Design No.: N/A Design Sheet No. 1 of 1 FHWA/Asset: N/A

CROSS SECTION VIEW COLOR LEGEND			
Design Color No.	Feature	Design Color No.	Feature
Aggregate		Grading	
(64)	Choke Stone	(8)	Behind Curb Cut
(42)	Engineering Fabric	(6)	Granular
(8)	Flooded Backfill	(13)	Granular Back Fill
(92)	Macadam Stone	(48)	Rock Undercut
(20)	Modified	(8)	Shoulder Earth Fill
(12)	Plowing Shaping	(2)	Side Slopes
(14)	Porous Backfill	(226)	Side Slopes Dressing
(8)	Revetment Class A	Substrata	
(6)	Revetment Class B	(128)	Boulder
(62)	Revetment Class C	(209)	Boulder Removed
(188)	Revetment Class D	(48)	Broken Weathered
(28)	Revetment Class E	(210)	Broken Weathered Removed
(12)	Shoulder Special Backfill	(3)	Core Out
(12)	Special Backfill	(115)	Core Out Remove Only
(20)	Subbase	(195)	Core Out Remove and Replace
(20)	Subbase Lower	(203)	Existing Pavement
(20)	Subbase Upper	(184)	Existing Pavement Remove Only
(118)	Subgrade Treatment	(200)	Existing Pavement Remove and Replace
Asphalt		(6)	Loam
(207)	HMA Base Course	(211)	Loam Removed
(207)	HMA Interim Course	(80)	Rock
(207)	HMA Surface Course	(212)	Rock Removed
Bridge		(4)	Select Sand
(0)	Bridge	(214)	Select Sand Removed
Concrete		(3)	Shale
(0)	Barrier Concrete	(215)	Shale Removed
(0)	Barrier Concrete Footing	(10)	Topsoil
(0)	Curb Gutter	(2)	Topsoil Remove Only
(48)	Flowable Mortar	(4)	Topsoil Remove and Replace
(0)	Median Concrete	Unsuitable / Waste	
(0)	PCC Pavement	(3)	Unsuitable Type A
(0)	Sidewalk	(216)	Unsuitable Type A Removed
Existing		(13)	Unsuitable Type B
(0)	Existing Pavement	(217)	Unsuitable Type B Removed
Shoulder		(11)	Unsuitable Type C
(209)	Shoulder HMA	(218)	Unsuitable Type C Removed
(0)	Shoulder PCC	(3)	Waste
(6)	Shoulder Granular	(219)	Waste Removed
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		

NOTES:

Text

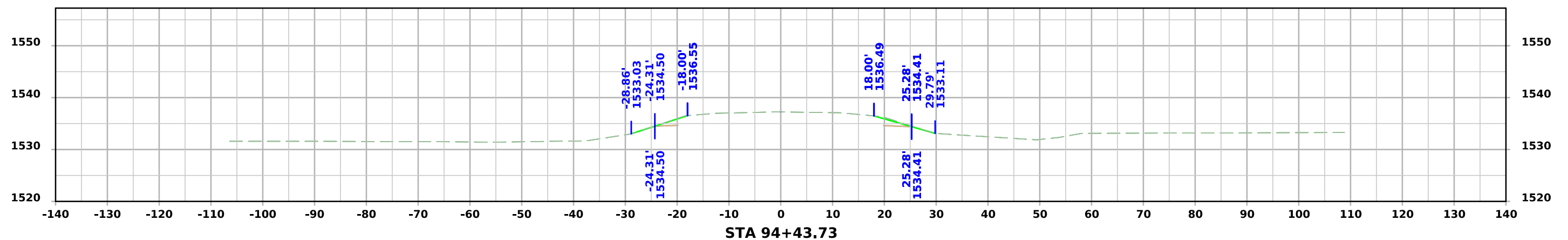
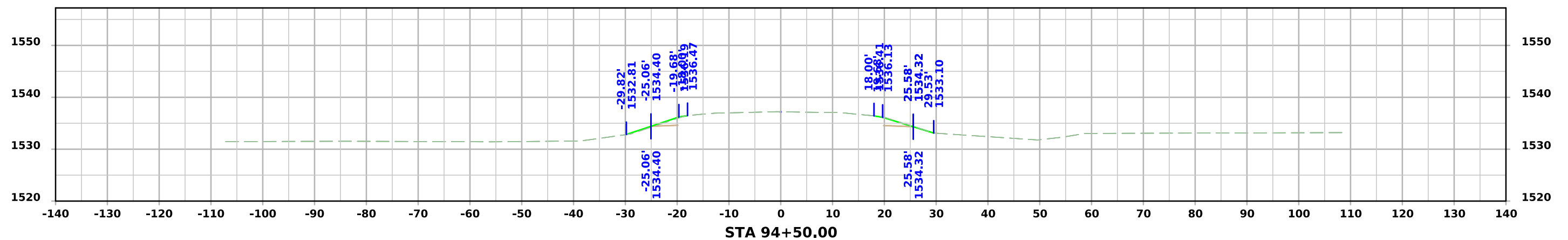
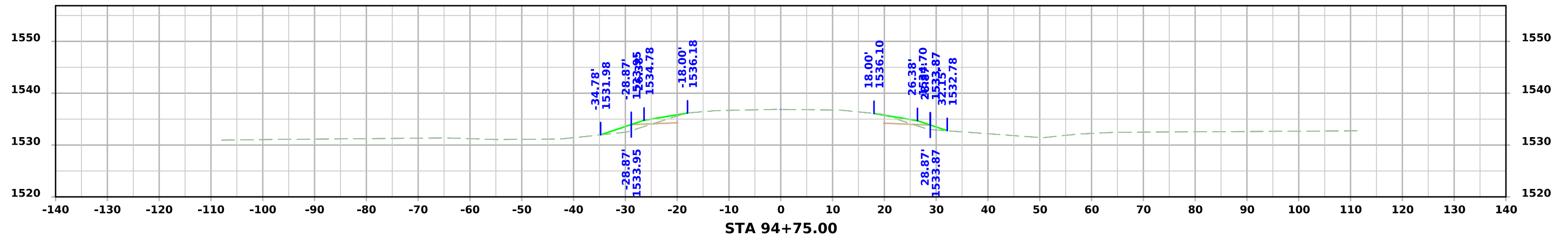
NOTES:

Text

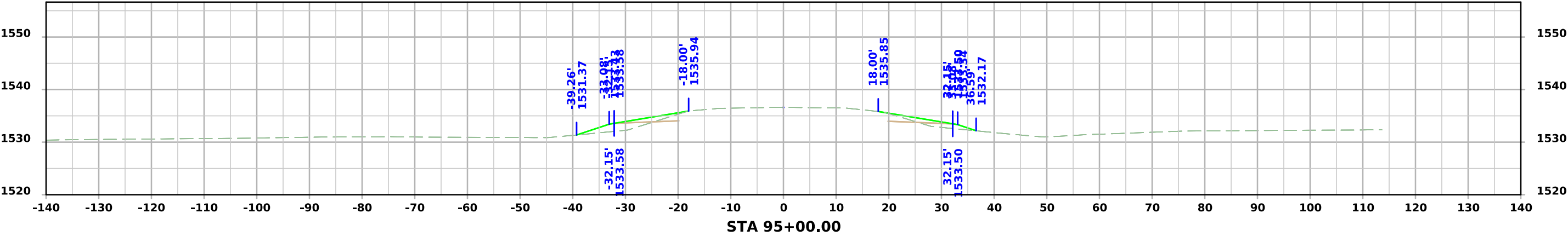
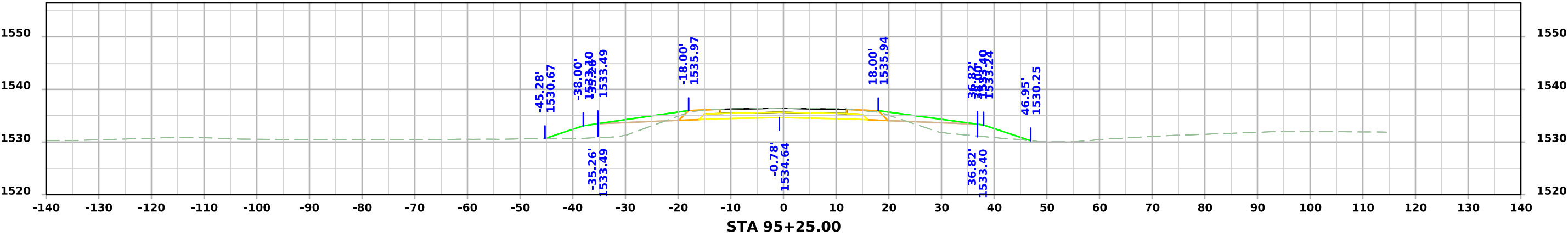
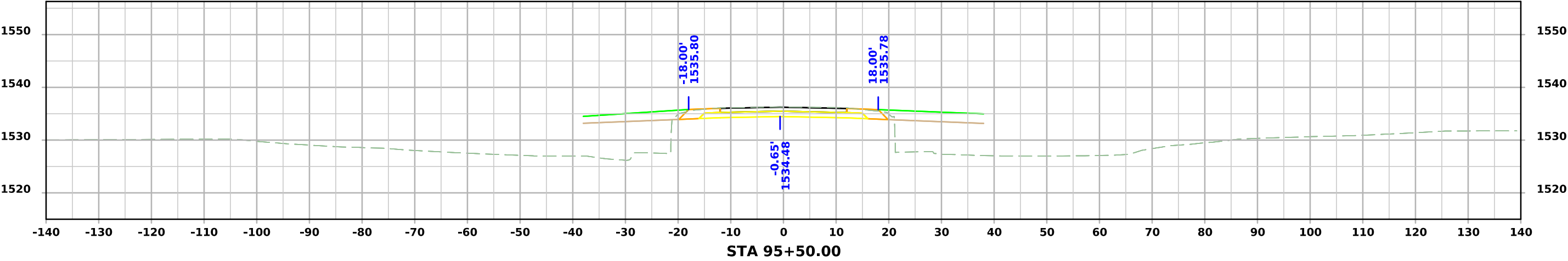
CROSS SECTIONS
LEGEND AND INFORMATION SHEET

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

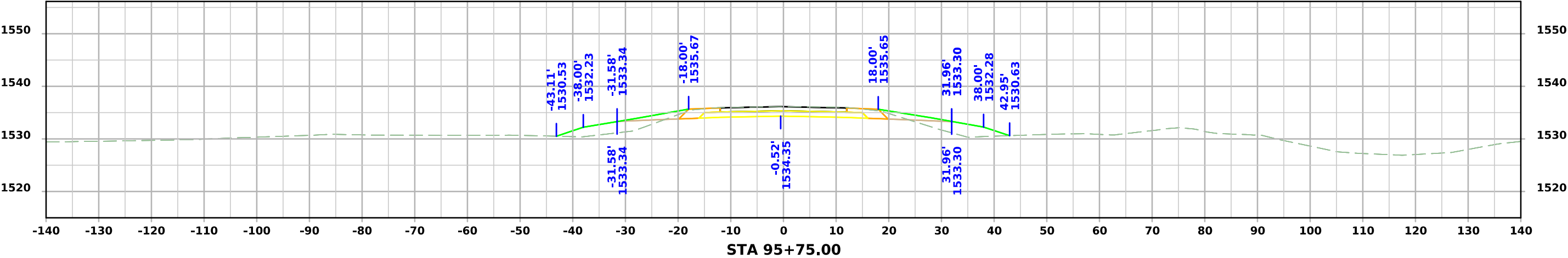
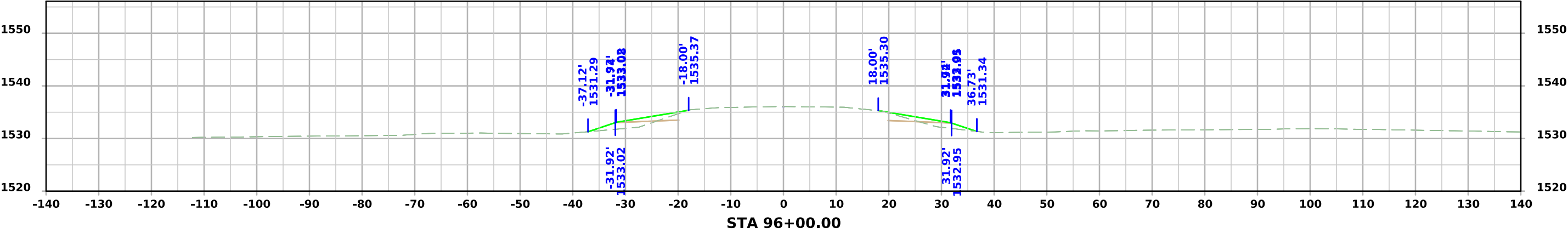
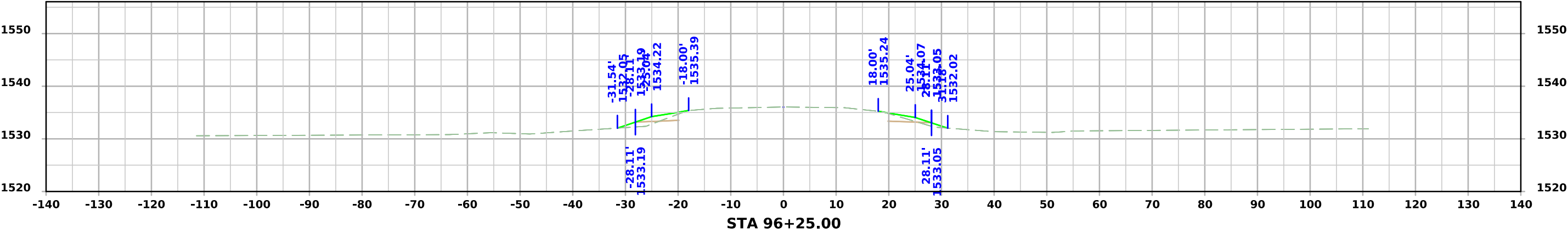
ML - US59



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