LETTING DATE
Jan 20 2027

PCC Pavement - Grade and New
IMX-080-6(536)208--02-48

Iowa COUNTY

INDEX OF SHEETS

No.	DESCRIPTION
A Sheets	**Title Sheets**
* A.1	Title Sheet
* A.2	Location Map Sheet
A.3 - 5	Design Criteria
A.6 - 7	Field Exam Notes
B Sheets	**Typical Cross Sections and Details**
B.1 - 4	Typical Cross Sections and Details
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 5	I-80 Plan and Profile Sheets
G Sheets	**Survey Sheets**
G.1	Alignments Information, Superelevation Data
* G.2	Survey Index, General Info., Util Info., Project Control
* G.3	Control Point Vicinity Map
G.4	Horizontal and Vertical Project Coordinate Listing
J Sheets	**Traffic Control and Staging Sheets**
* J.1	Traffic Control Plan
* J.2	Traffic Control & Staging Legend & Symbol Info. Sheet
* J.3	Traffic Control Typical
* J.4 - 8	Staging and Traffic Control Sheets
K Sheets	**Interchange Sheets**
* K.1	Plan and Profile Legend and Symbol Information Sheet
* K.2 - 3	Geometric Plan Interchange Layout With Rest Area Sheets
* K.4 - 5	Ramp A Plan and Profile Sheets
* K.6	Ramp C Plan and Profile Sheets
* K.7 - 8	Ramp E Plan and Profile Sheets
* K.9 - 10	Ramp G Plan and Profile Sheets
* K.11	Ramp G Return Plan and Profile Sheets
M Sheets	**Storm Sewer Sheets**
M.1	Storm Sewer Tabulations
* M.2	Storm Sewer Legend & Symbol Information Sheet
* M.3 - 4	Storm Sewer Plan and Profile Sheets
U Sheets	**500 Series, Mod.Stds. and Detail Sheets**
U.1 - 2	500 Series, Modified Standards and Detail Sheets
W Sheets	**Mainline Cross Sections**
* W.1	Cross Sections Legend & Symbol Information Sheet
* W.2 - 27	Mainline Cross Sections
Y Sheets	**Ramp Cross Sections**
* Y.1 - 15	Ramp A Cross Sections
* Y.16 - 19	Ramp C Cross Sections
* Y.20 - 30	Ramp E Cross Sections
* Y.31 - 41	Ramp G Cross Sections
* Y.42 - 44	Ramp G Return Cross Sections

* Color Plan Sheets

<-- H Sheets

IOWA DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
Iowa COUNTY
PCC Pavement - Grade and New

Victor Rest Area 2.5 mi
E of Co RD V38 (WB)

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
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REVISIONS

	TOTAL
	116
PROJECT IDENTIFICATION NUMBER	
22-48-080-070	
PROJECT NUMBER	
IMX-080-6(536)208--02-48	
R.O.W. PROJECT NUMBER	
IMN-080-6(539)208--OE-48	

INDEX OF SEALS

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

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: 9-17-24

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER A.1

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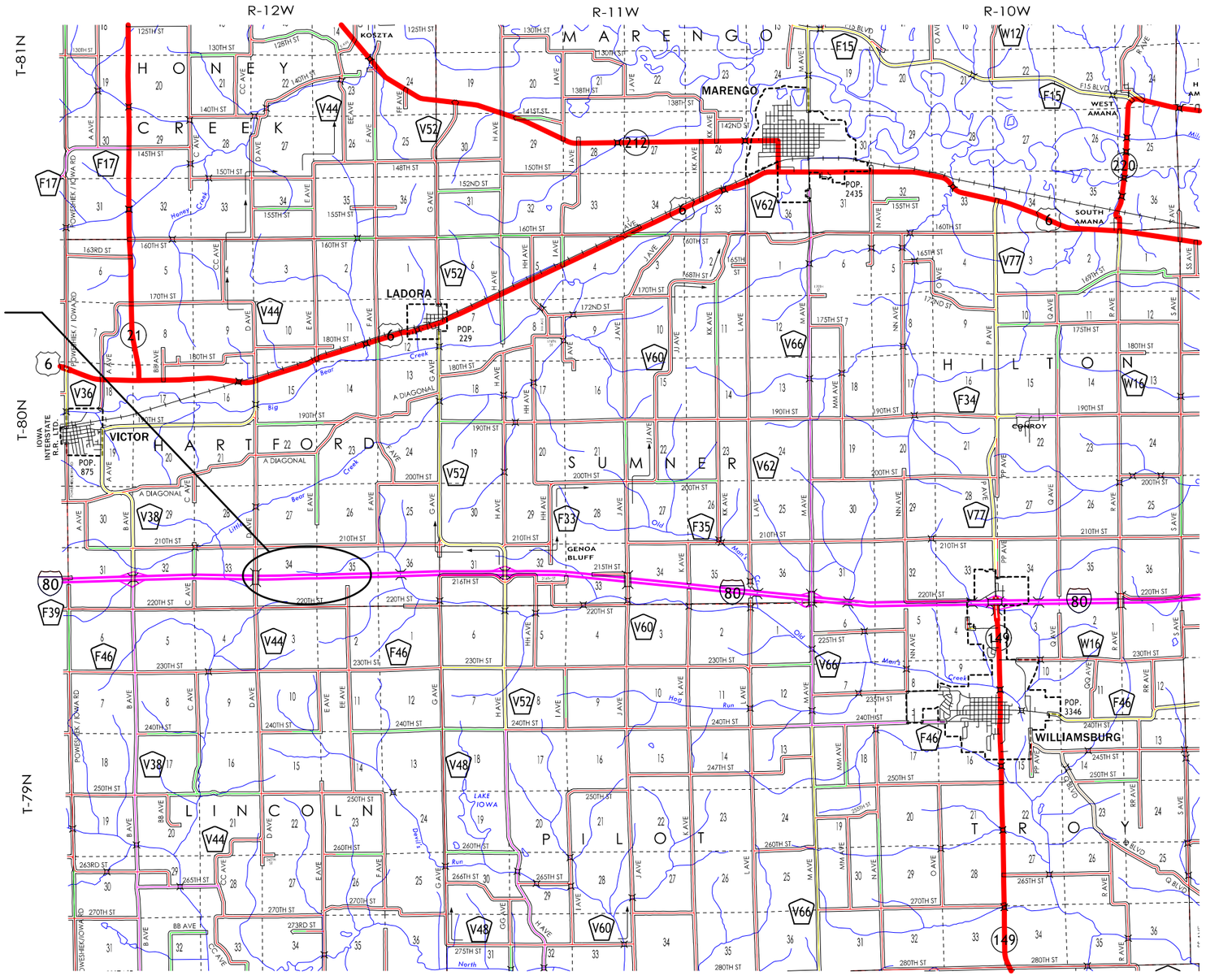
PROJECT LOCATION



LOCATION MAP SCALE
0 1 2 3
Miles

FILE NO.	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Iowa** COUNTY	PROJECT NUMBER **IMX-080-6(536)208--02-48**	SHEET NUMBER **A.2**

11:16:18 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_A01.dgn

Roadway	I-80 WB Rest Area near Victor				
PIN Number	22-48-080-070			**Submittal Date**	
Project Number	IMX-080-6(536)208--02-48				**Approval Date**
District	District 6	**Assistant District Engineer**	Jesse Tibodeau		
County	Iowa		**or**		
Route	I-80	**Office Director**			
Location	WB Rest Area near Victor				
Work Type	PCC Pavement - Grade and Replace				
Segment Manager					
Designer	Snyder & Associates, Inc.				

Design Manual Section 1C-1
Last Updated: 04-29-19

Ramps

Design Element		Preferred Values	Acceptable Values	Project Values	
Design speed (mph)		See Design Speed for Ramps Table Below	See Design Speed for Ramps Table Below	60 mph near ML / 40 mph internal. 16' lane	--
Design lane width (ft)					
Turn-lane width (ft)	Interstate ramps	12	12	12	IDG page 4, RDG 3.3.2
	Non-Interstate ramps	12	10	N/A	GB section 9.7.1
Pavement cross-slope (on tangent sections)		2%	1.5% minimum, 2% maximum	2%	GB page 10-111
Shoulder cross-slope (on tangent sections)		4	Shoulder cross-slope cannot be less than the adjacent lane, 6% max for paved or granular shoulders, 8% max for earth shoulders	4%	GB section 4.4.3
Foreslope (For fill areas greater than 40 ft, contact the Soils Design Section for assistance)	Adjacent to shoulder	10:1 for 4' then 6:1	4:1 for interstates*, 3:1 for other roadways	10:1 / 6:1	IDG page 5, RDG 3.3.2
	Beyond standard ditch depth and design clear zone	3.5:1	3:1	3.5:1	RDG section 3.3.2
	Curbed roadways	2%	not steeper than 3:1	2%	
Bridge width—new**		design lane widths + effective shoulder widths	design lane widths + effective shoulder widths	N/A	GB page 10-122
Bridge width—existing**		design lane widths + effective shoulder widths	design lane widths + effective shoulder widths	N/A	GB page 10-122
Vertical clearance (ft) (above lanes, shoulders and 25 feet left and right of the center of railroad tracks)	Over primary	16.5	16	N/A	IDG page 7 and GB section 8.2.9
	over non-primary	16.5 at interchange locations, 15 at all other locations	14	N/A	GB pages 5-9 and 6-8
	over railroad	23.3	23.3	N/A	--
	sign truss and pedestrian bridges	17.5	17	N/A	IDG page 7 and GB section 8.2.9
Structural Capacity		Contact Office of Bridges and Structures	Contact Office of Bridges and Structures	N/A	--

*Design Exception required for ramps on the Interstate system only
**FHWA notification via email is required if acceptable cirteria is not met on the Interstate or NHS systems (No formal design exception required)

Design Manual Section 1C-1
Last Updated: 04-29-19

Effective Shoulder Width and Type for Ramps

Design Element		Ramp Type: Preferred – Diagonal one lane	Preferred – Diagonal two lane	Preferred – Loop	Preferred – Semi-Directional one lane	Preferred – Semi-Directional two lane	Preferred – Directional one lane	Preferred – Directional two lane	Acceptable – Diagonal Radius*> 500 feet* one lane	Acceptable – Diagonal Radius*> 500 feet* two lane	Acceptable – Loop	Acceptable – Semi-Directional Radius > 500 feet* one lane	Acceptable – Semi-Directional Radius > 500 feet* two lane	Acceptable – Directional Radius > 500 feet one lane	Acceptable – Directional Radius > 500 feet two lane	Project Values	
Full depth paved width (ft)		16	24	18	16	24	16	24	14	22	17	14	22	14	22	16	GB Table 3-29
Design lane width (ft)		16	12	18	16	12	16	12	14	11	17	14	11	14	11	16	GB Table 3-29
Paved shoulder width (ft) (in the direction of travel)**	Left	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	GB page 10-121
	Right	6	6	6	6	6	8	8	6	6	6	6	6	8	8	6	GB page 10-121
***Granular shoulder width (ft) (in the direction of travel)	Left	4	-	-	-	-	-	-	4	-	-	-	-	-	-	N/A	GB page 10-121
	Right	6	-	-	-	-	-	-	6	-	-	-	-	-	-	N/A	GB page 10-121
Curb type	Interstate	4-inch sloped							4-inch sloped								IDG page 6
	Non-Interstate	4-inch sloped							6-inch sloped								

*For radii less than 500 feet, refer to design widths of pavement for turning roadways in A Policy on Geometric Design of Highways and Streets — GB Table 3-29
**Left and right shoulders widths may be reversed if needed to provide additional sight distance
***Non-Interstate interchanges only — GB page 10-121

Ramp Design Speed (mph) = 60 mph / 40 mph

Design Manual Section 1C-1
Last Updated: 04-29-19

Design Criteria for Ramps Based Upon Design Speed

Design Element			Preferred Criteria, Design Speed, mph: 25	30	35	40	45	50	55	60	Acceptable Criteria, Design Speed, mph: 25	30	35	40	45	50	55	60	Project Values	
Stopping sight distance (ft) (Refer to Section 6D-1)			155	200	250	305	360	425	495	570	155	200	250	305	360	425	495	570	305 / 570	GB Table 3-1
Minimum horizontal curve radius (ft) and superelevation rate (Refer to Sections 2A-2 and 2A-3)	Method 2 superelevation and side friction distribution	e = 4% max	See Table 10 in Section 2A-3					--	--	--	--									GB Section 3.3.6, Table 3-13
	Method 5 superelevation and side friction distribution	e_{max} = 6%	144	231	340	485	643	833	1060	1330	144	231	340	485	643	833	1060	1330	485 / 1330	GB Table 3-7
		e_{max} = 8%	--	--	--	--	--	--	--	--	134	214	314	444	587	758	960	1200		GB Table 3-7
Minimum vertical curve length (ft) (Refer to Section 2B-1)			75	90	105	120	135	150	165	180	75	90	105	120	135	150	165	180	120 / 180	GB page 3-168
Minimum Rate of Vertical Curvature (Refer to Section 2B-1)	crest vertical curves		12	19	29	44	61	84	114	151	12	19	29	44	61	84	114	151	44 / 151	GB Table 3-35
	sag vertical curves	roadways without fixed-source lighting	26	37	49	64	79	96	115	136	26	37	49	64	79	96	115	136		GB Table 3-37
		roadways with fixed-source lighting	26	37	49	64	79	96	115	136	14	20	27	35	44	54	66	78	64 / 136	GB page 3-175
Minimum gradient (%)	(Refer to Section 2B-1)		0.5								0.3% with a curb, 0.0% without a curb								0.5%	GB page 3-130
Maximum gradient (%) on ramps	(Refer to Sections 2B-1)	Upgrades	4								8	7	6	6	5	5	5	5	4%	GB page 10-109,110
		Downgrades									Equal to the maximum upgrade gradient. In special cases, may be 2% greater but in no case greater than 8%								4%	
Clear zone			See "Preferred Clear Zone" table in Section 8A-2								See "Acceptable Clear Zone" table in Section 8A-2								24	

Ramp Design Speed (mph) =		60 mph / 40 mph										
Design Manual Section 1C-1 Last Updated: 04-29-19	**Design Speed for Ramps**											
Design Element	**Ramp Type**										Project Values	
	Preferred					Acceptable						
	All curves near free flow terminals	Diagonal: Curves near at-grade terminals	Loop	Semi-Directional	Directional	All curves near free flow terminals	Diagonal: Curves near at-grade terminals	Loop	Semi-Directional	Directional		
Design speed (mph)	60	40	30	50	60	50	35	25	40	40	60 / 40	GB pages 10-105
Maximum superelevation rate (Refer to Section 2A-2 for details)	6%	4%	6%			8%					6%	GB pages 3-31

IOWA DEPARTMENT OF TRANSPORTATION

TO OFFICE: District #6 **DATE:** April 29, 2024

ATTENTION: Jim Schnoebelen, District Engineer **REF.:** Iowa County
Project No. IMX-080-6(536)208--02-48
Project Code: 22-48-080-070

FROM: Cindy Spencer, P.E.

OFFICE: Snyder & Associates, Inc.

SUBJECT: Field Exam Review (D-2)

A D2 plan review meeting was held via Microsoft Teams on April 25, 2024 at 1:00 PM, with a field review held on April 29, 2024. The following people attended the plan review meeting:

Name	Office	email
Cindy Spencer	Snyder & Associates	cspencer@snyder-associates.com
Kevin Patel	Iowa DOT - Design	Kevin.Patel@iowadot.us
Garrett Reeder	Iowa DOT – Program Management	Garret.Reeder@iowadot.us
Jimmy Ellis	Iowa DOT – Bridge	Jimmy.Ellis@iowadot.us
Mark Harle	Iowa DOT – District 6	mark.harle@iowadot.us
Steve Flockhart	Iowa DOT – District 6	steven.flockhart@iowadot.us
Steve McMenamin	Iowa DOT – Rest Areas	steven.mcmenamin@iowadot.us
Amanda Veren	Iowa DOT – Rest Areas	Amanda.Veren@iowadot.us
John Mohr	Iowa DOT – Rest Areas	John.mohr@iowadot.us
Tim Duncan	Iowa DOT – Rest Areas	Tim.Duncan@iowadot.us
Lane Ingram	Stanley Consultants	IngramLane@stanleygroup.com

This project involves the expansion of car and truck parking areas and reconstruction of the acceleration and deceleration tapers for the westbound I-80 rest area near Victor. This is a revision to the earlier project concept, which called for the construction of new car and truck parking areas and rest area building at a different location. The D2 plan review for that concept was held on October 24, 2023, and the concept subsequently changed after additional discussion.

Interstate 80 is a service level “A” roadway. The 2022 ADT is 29,200 VPD with 28.4% trucks.

Similar to the previous concept, design speeds for the rest area ramps are 60 mph near I-80 and 40 mph internal to the rest area. Lower speeds will be necessary at the west end of the car parking area to allow for the re-use of existing pavement / geometry. Ramps will have 10 foot wide outside shoulders and 6 foot wide inside shoulders. Where curb is present, the shoulder width will increase by 0.5 feet. The truck parking area will be 93 feet wide with parallel parking near the interstate; the existing curb location near I-80 will be held with the updated design. The car parking area will be 49 feet wide, which includes a 10 foot wide parallel parking area.

On I-80, the roadway foreslopes will be reconstructed to a 6:1 / 3.5:1 barn-roof section with a 34 foot clear zone within the project area.

Vertical design matches existing pavement elevations throughout the existing parking area. Based on field review, the majority of the existing pavement in the truck parking area will be retained, with the following exceptions:

- Through the Ramp G return area, as necessary for shaping between the existing pavement and new acceleration taper.
- The north and south curb lines. The south truck parking curb line currently contains curb cuts and flumes, which will be replaced by intakes and a storm sewer system. The north truck parking curb line will be relocated to match the new parking lot dimensions.

Pavement patching bid items will be added to the project plans to replace bad panels as needed, and for pavement removal and replacement necessary for storm sewer construction.

Much of the existing car parking area pavement will also be able to be retained. The south car parking curb will need to be reconstructed to match the new parking area dimensions, and the north curb line will need to be partially reconstructed to account for new side path crossings and ADA accessibility. It has been requested that N-S curb be eliminated from the west end of the car parking area, to allow for easier snow removal. It was also requested that sidewalk crossings between the car and truck parking areas be designed to be 10 feet wide with 6” minimum sidewalk, to allow maintenance vehicles to pass between.

The existing dump station is closed. The sanitary sewer outlet was plugged, and the service valve turned off. Sewer and water pipes from the dump station will need to be removed or abandoned with this project.

The location of the lagoon access drive will be maintained. The drive will be paved to the fence. It was requested that the gate to the lagoon enclosure be replaced with a sliding gate.

The proposed design results in 36 truck parking stalls plus 1,443 feet of parallel parking, and 130 car parking stalls plus 1,258 feet of parallel parking. The number of car parking stalls will likely be reduced as areas are striped out for crosswalks and handicapped stalls. If the number of car stalls needs to be further reduced, it was requested that the stalls be removed from the west end of the car parking area.

The dumpster is currently located on the car parking pavement. Additional discussion will be necessary to determine the preferred location for the dumpster, although it will most likely be located next to the new utility shed (to be built as part of the building project).

Proposed grading, including grading to a barnroof section on the mainline and proposed 10 foot wide flat area behind the truck parking curb, will result in a shallower mainline ditch. Pipes under I-80 will no longer be able to daylight between I-80 and the truck parking area. Area intakes and ditch inlets to manholes will be used to capture the drainage. Runoff will outlet to the north and east of the rest area site. Runoff to the mainline ditch will be limited to the area between the westbound lane centerline and 10 feet behind the north truck parking area curb.

It is assumed that all existing lighting will be removed and replaced.

ADA accommodations will be necessary on all sidewalk within the project area. Existing sidewalk ramps do not currently conform with ADA requirements.

The general staging layout remains unchanged from the previous concept.

a. Stage 1: inside shoulder strengthening / reconstruction. Will require overnight work / closure of inside lane.
b. Stage 2: Construction of portions of new rest area outside footprint of existing rest area and outside of I-80 clear zone.
c. Stage 3: Construction of deceleration taper. Includes shift on I-80 at construction location. Existing rest area remains open to traffic
d. Stage 4: Construction of portions of rest area within footprint of existing rest area and mainline shoulders. Includes shift on I-80 for construction of acceleration lane and taper. Rest Area will be closed for this work.

Stage 4 may be further broken up to separate work in car and truck parking areas, so that the closure time is reduced to the extent possible. The car parking area may be able to be opened while construction is completed on the truck parking. All proposed staging matches discussions between Snyder & Associates, Inc., and District 6 regarding preferences for I-80 shoulder and lane widths.

Right-of-way will be necessary to complete the project. The following are milestone dates moving forward:

- D3: May 17, 2024
- B1 / B2: July 12, 2024
- D5: August 16, 2024
- S2: August 16, 2024

The project is currently scheduled for a January, 2027 letting. The estimated cost of construction shown in the original concept was $4.44 million, with an original preliminary design estimate of $8.8 million. The current design, with the assumption that all existing pavement will be removed and reconstructed, has a cost estimate of $6.66 million. Saving portions of the existing pavement is calculated to lower the proposed cost to $5.64 million, a $1 million savings.

No plan sheets are included in this submittal; however, plan sheets may be viewed on Projectwise, at the following link: pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\Design Events\D2\48-0806-539_C.pdf

Photos of the existing pavement can be found on Projectwise at the following location: Photos

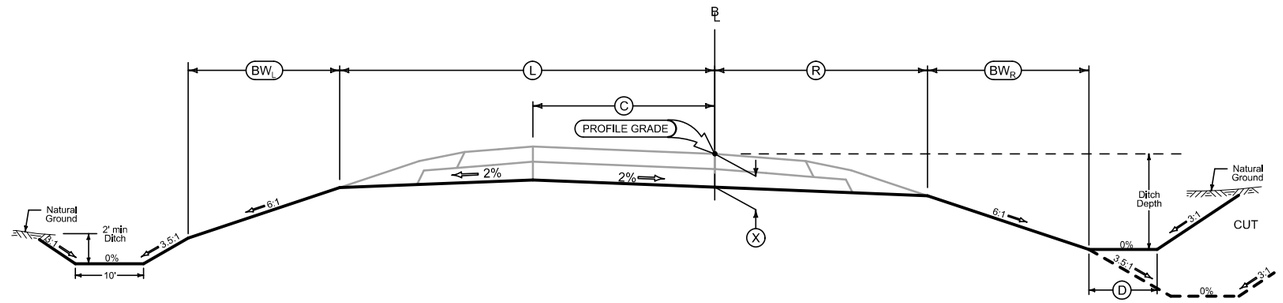
Machine Guidance Electronic Files Checklist

Add information to address any incomplete items below:

Yes	N/A	No	
☒	☐	☐	Horizontal and Vertical Alignments Complete
☒	☐	☐	Typical Templates showing proposed Pavement, Shoulder, Foreslope design
☒	☐	☐	Correct Feature Naming for Roadway Breaklines and Components

LOCATION				DIMENSIONS						
INTERCHANGE	RAMP	STATION TO STATION		(L) Feet	(R) Feet	(C) Feet	(X) Inches	(BW_L) Feet	(BW_R) Feet	(D) Feet
INTERSTATE 80	A	1000+00.00	1000+41.13	36.57	22.58	16	22	3.43	1.42	10.0
INTERSTATE 80	A	1005+92.76	1021+66.65	36.57	22.58	16	22	3.43	1.42	10.0
INTERSTATE 80	C	3014+79.03	3021+04.39	36.57	22.58	16	22	3.43	1.42	10.0
INTERSTATE 80	E	5015+58.43	5017+11.94	36.57	22.58	16	22	3.43	1.42	10.0

G_1R_Grade
Modified



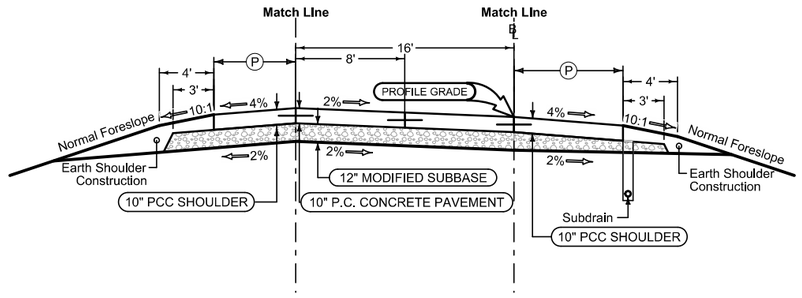
RAMP GRADING

Section shown in the direction of traffic.

Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-2, L-2 or KT-2
Transverse joints: CD at 15' spacing

			1R_P_ALT_ 10-17-17
RAMP	BEGIN STATION	END STATION	(P) Feet
C	3014+79.03	3017+97.79	4
E	5014+39.57	5020+04.35	4



Section shown in the direction of traffic.

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

			1RP_ 10-17-17
RAMP	BEGIN STATION	END STATION	
A	1000+00.00	1000+41.13	
A	1005+92.76	1021+66.65	
C	3014+79.03	3021+04.39	
E	5015+58.43	5017+11.94	

Paved Shoulder Alternates

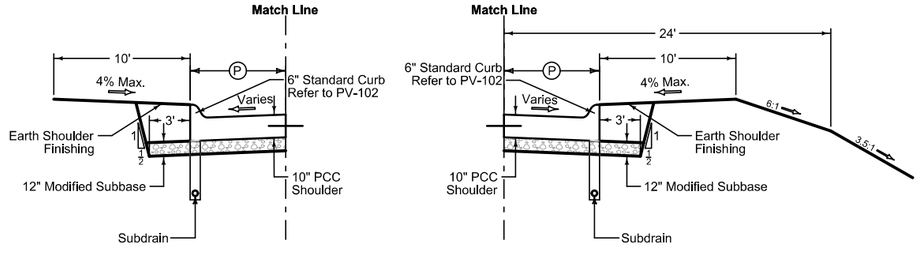
PCC Shoulder Jointing:
Longitudinal joint: BT-2, L-2 or KT-2
Transverse joints: CD at 15' spacing

			1R_P_ALT_ 10-17-17
RAMP	BEGIN STATION	END STATION	(P) Feet
A	1005+92.76	1021+66.65	6
C	3014+79.03	3017+97.79	6

Integral Curb Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-2, L-2 or KT-2
Transverse joints: CD at 15' spacing

			1R_Curb_Alt 10-18-22
RAMP	BEGIN STATION	END STATION	(P) Feet
A	1005+92.76	1018+41.45	4.5
C	3017+97.79	3021+61.71	4.5



Integral Curb Paved Shoulder Alternates

PCC Shoulder Jointing:
Longitudinal joint: BT-2, L-2 or KT-2
Transverse joints: CD at 15' spacing

			1R_Curb_Alt 10-18-22
RAMP	BEGIN STATION	END STATION	(P) Feet
C	3017+97.79	3021+04.39	6.5
A	1000+00.00	1000+41.13	6.5
G	7018+26.75	7019+44.24	0.5

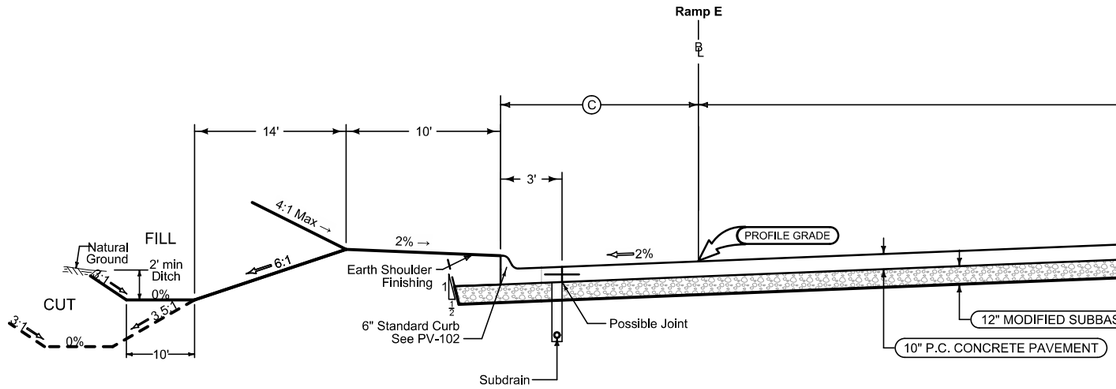
See Tab 100-24 or 100-25 for pavement quantities.

See Tab 112-9 for shoulder quantities.

INTERSTATE 80 IOWA COUNTY REST AREA WESTBOUND RAMPS

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER B.1

11:17:03 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_B01.dgn

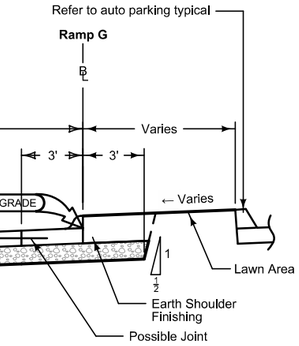


Integral Curb

Shoulder jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 16':

Transverse: CD at 17' spacing
Single pour: L-2
Staged : KT-2

BEGIN STATION	END STATION	(C) Feet	Curb Type See PV-102
4999+41.88	4999+99.73	0-15.5	Standard
5005+93.18	5014+28.07	15.5	Standard
5014+28.07	5014+43.57	15.5-0	Standard

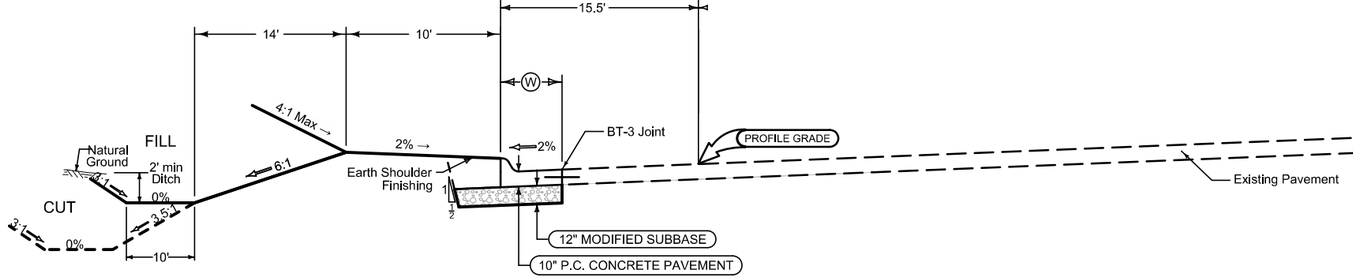


Integral Curb

Shoulder jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 16':

Transverse: CD at 17' spacing
Single pour: L-2
Staged : KT-2

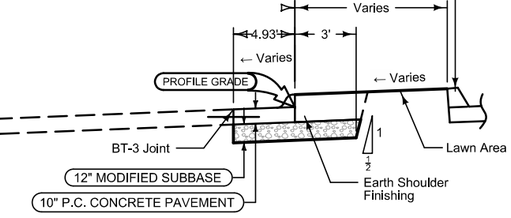
BEGIN STATION	END STATION	(D) Feet	Curb Type See PV-102
7000+00.00	7001+28.39	62.9	Standard
7008+51.17	7015+30.46	77.5	Standard
7015+30.46	7018+26.75	77.5-16	Standard



Pavement Widening

Jointing:
Transverse: CD, Match Existing Spacing

BEGIN STATION	END STATION	(W) Feet
4999+82.33	5000+02.63	16.24
5000+02.63	5005+93.18	4.43



Pavement Widening

Jointing:
Transverse: CD, Match Existing Spacing
Longitudinal: L-2 or KT-2. Match Existing Spacing

BEGIN STATION	END STATION	(W) Feet
7001+28.39	7006+34.64	4.93
7006+34.64	7007+13.38	16.74
7007+13.38	7007+52.75	28.71
7007+52.75	707+72.43	40.76
7007+72.43	7008+11.80	52.78
7008+11.80	7008+31.45	64.78
7008+31.45	7008+51.17	76.76

INTERSTATE 80 IOWA COUNTY REST AREA TRUCK PARKING LOTS

Section shown in direction of traffic.

Refer to Plan and Profile sheets for Ditch Grade elevations

Direction of Travel	BEGIN STATION	END STATION	(BS)
W.B.	165+00.00	165+50.00	Var.
W.B.	165+50.00	169+50.00	2.5
W.B.	169+50.00	170+00.00	Var.
W.B.	170+00.00	175+31.04	3
W.B.	181+33.51	196+88.20	3
W.B.	203+73.11	207+93.88	3

Full Depth PCC Shoulder

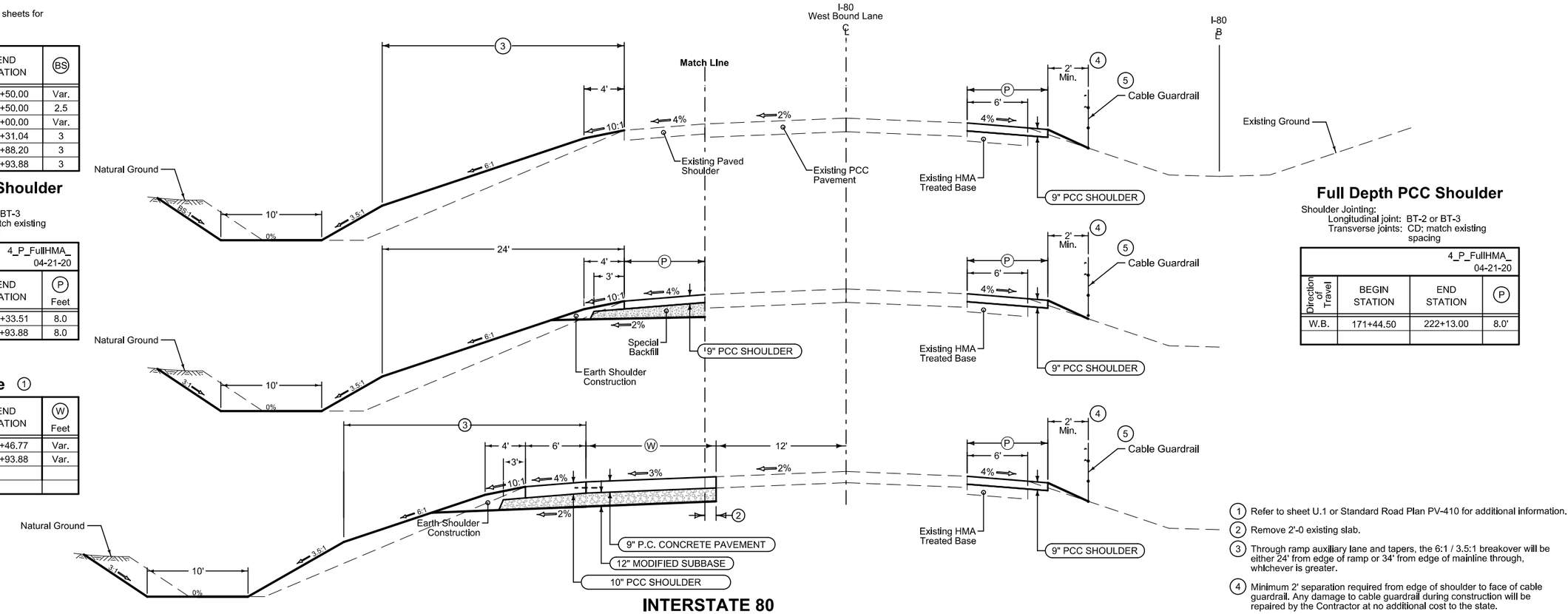
Shoulder Jointing:
Longitudinal joint: BT-2 or BT-3
Transverse joints: CD; match existing spacing

4_P_FullHMA_ 04-21-20

Direction of Travel	BEGIN STATION	END STATION	(P) Feet
W.B.	180+46.77	181+33.51	8.0
W.B.	196+88.20	207+93.88	8.0

Auxiliary Lane (1)

Direction of Travel	BEGIN STATION	END STATION	(W) Feet
W.B.	175+31.04	180+46.77	Var.
W.B.	207+93.88	213+93.88	Var.



Full Depth PCC Shoulder

Shoulder Jointing:
Longitudinal joint: BT-2 or BT-3
Transverse joints: CD; match existing spacing

4_P_FullHMA_ 04-21-20

Direction of Travel	BEGIN STATION	END STATION	(P)
W.B.	171+44.50	222+13.00	8.0'

(1) Refer to sheet U.1 or Standard Road Plan PV-410 for additional information.

(2) Remove 2'-0 existing slab.

(3) Through ramp auxiliary lane and tapers, the 6:1 / 3.5:1 breakover will be either 24' from edge of ramp or 34' from edge of mainline through, whichever is greater.

(4) Minimum 2' separation required from edge of shoulder to face of cable guardrail. Any damage to cable guardrail during construction will be repaired by the Contractor at no additional cost to the state.

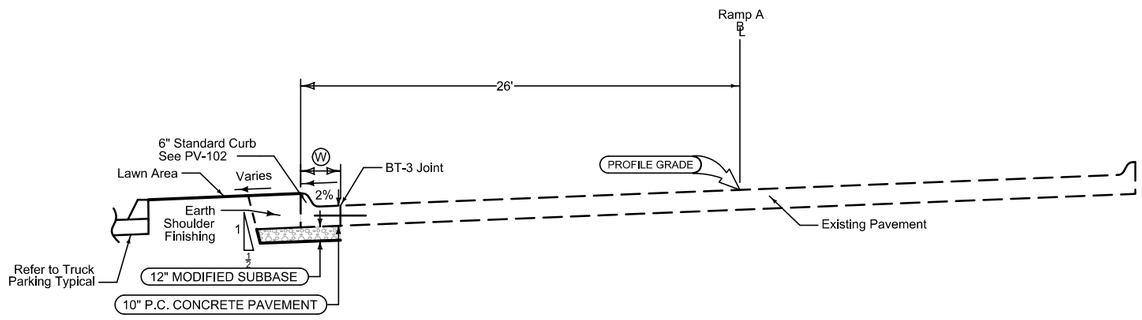
(5) Do not disturb existing cable guardrail. Damage to guardrail will be repaired by the contractor at no expense to the Contracting Authority.

INTERSTATE 80
FORESLOPE IMPROVEMENTS

Pavement Widening

Jointing:
Transverse: CD, Match Existing Spacing
Longitudinal: BT-3

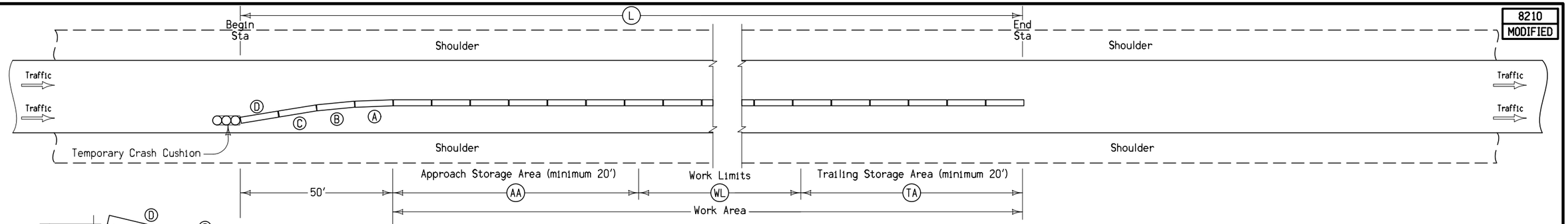
BEGIN STATION	END STATION	(W) Feet
1000+57.32	1000+62.82	10.75-16.26
1000+62.82	1000+71.55	16.26
1000+71.55	1005+06.47	2.50

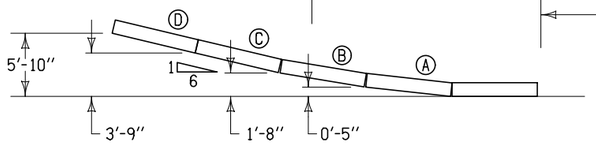


Section shown in direction of traffic.

INTERSTATE 80 IOWA COUNTY REST AREA
AUTO PARKING LOT WIDENING

8210
MODIFIED





BARRIER OFFSETS FOR FLARE SECTIONS

Station to Station		Side	AA	WL	TA	L	Anchored	Remarks
			Feet	Feet	Feet	Feet	X	
166+31.00	174+18.50	RT	30.4	600	107.6	787.5	X	Phase 3
211+28.00	231+90.50	RT	41.4	1910.2	60.9	2062.5	X	Phase 3
172+41.00	212+41.00	RT	20.0	3906.15	21.6	4000	X	Phase 4

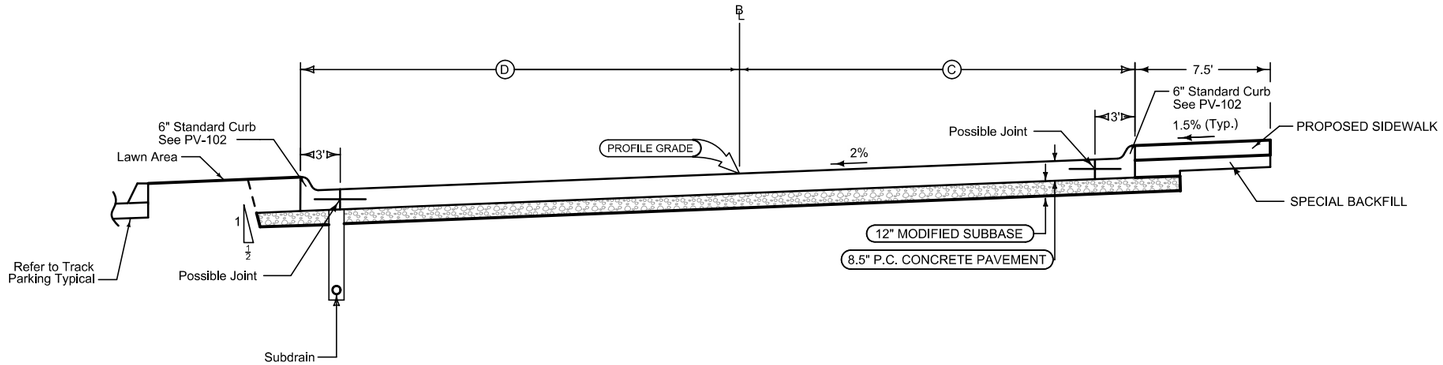
TEMPORARY CONCRETE BARRIER LAYOUT
for One-Way Traffic

Integral Curb

Shoulder jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 16':

Transverse: CD at 15' spacing
Single pour: L-2
Staged : KT-2

BEGIN STATION	END STATION	D Feet
1005+06.47	1005+87.26	26
1005+87.26	1005+92.76	26-20.5



PARK. LOT	BEGIN STATION	END STATION
Ramp A	1000+41.13	1005+92.76

Section view is in direction of traffic.

Integral Curb

Shoulder jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 16':

Transverse: CD at 15' spacing
Single pour: L-2
Staged : KT-2

BEGIN STATION	END STATION	C Feet
1000+41.13	1000+52.13	23
1005+06.47	1005+82.95	23
1005+82.95	1005+92.76	23-6

INTERSTATE 80 IOWA COUNTY REST AREA
AUTO PARKING LOTS

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

E2	(WIL) Iowa Department of Transportation Contact Name : Jim Hanson Contact Phone: 3196682397 Contact Email: james.hanson@dot.iowa.gov
G	
SAN.	
FO	(COP) Cooperative Telephone Company Contact Name : Scott Schabacker Contact Phone: 3196473131 Contact Email: cooptel@netins.net
FO2	(ICNDOT) Iowa Communications Network Contact Name : Shannon Marlow Contact Phone: 8005723940 Contact Email: icnoutsideplantiowaonecall@iowa.gov
W	(PWA) Poweshiek Water Association Contact Name : Rick Anderson Contact Phone: 6415227416 Contact Email: rick@poweshiekwater.com
E1	(TIP) Tip Rural Electric Cooperative Contact Name : Scott Long Contact Phone: 8009347976 Contact Email: slong@tiprec.com
Clear	(MAW) MidAmer-Wind Contact Name : Wind Engineer Contact Phone: 8006320999 Contact Email: mecdsmdesignlocates@midamerican.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 D, E, F, & K)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER **D.1**

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HARTFORD TWP.
T-80N R-12W
SEC. 35

Δ = 02°45'29.75" (LT)
T = 551.80'
L = 1103.39'
R = 22920.00'
E = 6.64'
e = NC

Sta. 164+99.70
Install 30"x14' RCP Extension
FL LT=914.00
Other=913.90

Sta. 166+00.70, 37' LT
Install 24"x14' RCP Extension & FES
FL LT=914.75
Other=914.85

STA 175+31.04 (ML080)
BEGIN PAVING

Construction Limits

162+00 163+00 164+00 165+00 166+00 167+00 168+00 169+00 PT 169+42.00 170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00

FO FO FO FO FO

Sta. 166+00.7 10.2'LT
24"x56' RCP
D.A.=MEDIAN
(Extend, Remove FES LT)

I-80 Existing W.B.

STA 165+00.00 (ML080)
BEGIN GRADING

PI 163+90.41

Sta. 164+99.7
30"x135' RCP
D.A.=5.0 A-R (FROM PLANS)
(Extend, Remove & Reinstall FES LT)

0 50 FEET

Existing Ground Line

LT +00 913.95
+0.80% LT Ditch Grade
LT +00 914.75
+2.32% LT Ditch Grade
LT +00 919.40
+1.77% LT Ditch Grade
LT +00 922.95
+1.15% LT Ditch Grade
LT +00 925.24
+0.50% LT Ditch Grade
LT +00 926.24
-0.80% LT Ditch Grade

Ditch Grade

Lt Med Rt

965 960 955 950 945 940 935 930 925 920 915 910 905 900 895 890 875 870

163+00 164+00 165+00 166+00 167+00 168+00 169+00 170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates, Inc.	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER D.2

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HARTFORD TWP.
T-80N R-12W
SEC. 35

STA 180+44.32, OFF: 84.72' LT (I-80)
= STA 3014+79.03 (Ramp C)
Point F on STA Detail 533-02

Construction Limits

Ramp C

Ramp G

Ramp E

48"x46'
Conc. Pipe

42"x21'
Conc. Pipe
(Extend)

42"x34'
Conc. Pipe

15"x109'
Conc. Pipe

15"x117'
Conc. Pipe

24"x7'
Conc. Pipe
(Remove)

ST-1A
P-1
ST-1
P-2
ST-2
P-19
ST-19
ST-19A
ST-3
ST-3A
P-3
P-3A
ST-5
ST-4
ST-4A
P-4
P-4A
ST-6

177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00

I-80 Existing W.B.

0 50
FEET

Sta. 185+29.0
Skew 24° RT AH
42"x320' RCP
D.A.=32.0 A-R (FROM PLANS)
(U.A.C.)

Existing Ground Line

-0.80% LT Ditch Grade
LT +37
923.54

-1.28% LT Ditch Grade
LT +47
919.57

-0.79% LT Ditch Grade
LT +25
917.18

-6.06% LT Ditch Grade
LT +75
916.00

LT +10
913.88

+1.31% LT Ditch Grade
LT +75
917.35

+0.20% LT Ditch Grade
LT +88
917.78

-0.61% LT Ditch Grade

Lt Med Rt: Ditch Grade | Ramp/V-ditch | Ditch Grade

965 960 955 950 945 940 935 930 925 920 915 910 905 900 895 890 875 870

178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER D.3

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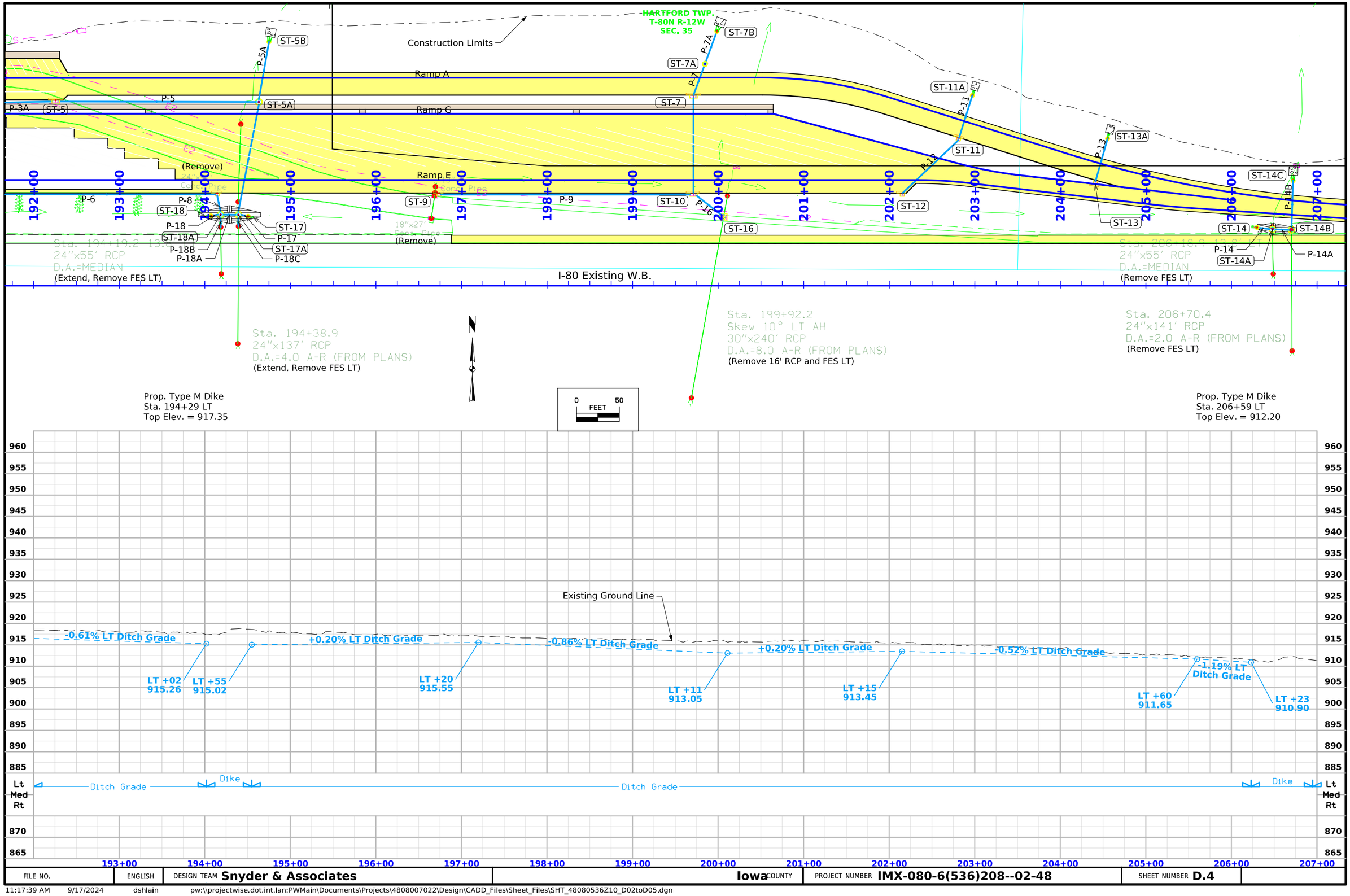

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER D.4

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HARTFORD TWP.
T-80N R-12W
SEC. 35

Construction Limits

POT STA 207+94.94, OFF: 90.51' LT (I-80)
= POT STA 1021+66.65 (Ramp A)
Point M on SRP PV-410

END GRADING (I-80)
STA 214+91.59

ST-14C
ST-15A
ST-14B
ST-15
P-14B
P-15
Ramp A

207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00

I-80 Existing W.B.

Sta. 206+70.4
24"x141' RCP
D.A.=2.0 A-R (FROM PLANS)
(Remove FES LT)

Sta. 213+75.2
Skew 45° LT AH
36"x242' RCP
D.A.=18.0 A-R
(Extend, Remove Apron)

Sta. 213+75.20
Install 36"x10' RCP & FES LT
Skew=45° LA
FL LT=885.70
Other=885.82

Sta. 219+18.4 10.1' LT
24"x59' RCP
D.A.=MEDIAN
(U.A.C.)

Sta. 219+44.5
24"x132' RCP
D.A.=.5 A-R (FROM PLANS)
(U.A.C.)

0 50
FEET

940 935 930 925 920 915 910 905 900 895 890 885 880 875 870 865

Existing Ground Line

LT +95
903.51

-2.65% LT Ditch Grade

LT +68
885.70

Lt Med Rt

V-Ditch

Ditch Grade

850 845

208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER D.5

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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														
Ramp A	Curve A1	485	6.0	144	48	PV-303	1012+55.91	1013+03.91	1014+04.71	1014+47.91						1013+99.91	1013+99.91		
							1017+02.09	1016+54.09	1015+53.29	1015+10.09						1015+58.09	1015+58.09		
	Curve A2	1330	6.0	186	62	PV-303	1017+04.74		1017+72.94	1018+28.74						1017+66.74	1017+66.74		
							1021+59.50		1020+91.30	1020+35.50						1020+97.50	1020+97.50		
Ramp C	Curve C1	2000	5.4	168	62	PV-303	3011+14.51		3011+70.11	3012+20.51						3011+76.95	3011+76.95		
							3019+30.66		3018+75.06	3018+24.66						3018+68.22	3018+68.22		
	Curve C2	340																	

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	
A1	1014+79.59										17°33'10.46"	74.88	148.58	485	5.75	
A2	1019+32.88										13°42'53.80"	159.95	318.36	1330	9.58	
C1	3015+26.28										20°11'42.51"	356.17	704.94	2000	31.47	
C2	3020+45.19										20°09'54.44"	60.46	119.66	340	5.33	
E1	5014+71.67										06°37'54.12"	28.1	56.14	485	.81	
E2	5017+42.38										02°49'41.87"	20.98	41.96	850	.26	
G1	7017+91.40										08°22'06.78"	35.48	70.84	485	1.30	
G_RET	11+43.82										33°02'05.46"	143.82	279.63	485	20.88	

SURVEY INDEX

County: Iowa
PIN: 22-48-080-070
Project Number: IMX-080-6(536)208--02-48
Location: Victor Rest Area 2.5 mi E of Co Rd V38 (WB)
Type of Work: PCC Pavement Grade and Replace
Project Directory: 4808007022

Survey Personnel

John Hahn – Survey Party Chief
Robert Fredrickson – Assistant Survey Party Chief

Date(s) of Survey

Begin Date	11/02/2022
End Date	01/12/2023

General Information

This survey is for the Victor rest area PCC pavement grading and replacement located 2.5 miles east of County Road V38 westbound. This project is a Partial Field DTM with Photo control.

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

Nearby Iowa Real Time Network reference stations were utilized to obtain horizontal and vertical control on primary project control points. Six five-minute observations were taken with a minimum two-hour time span between and used in a weighted average to obtain final coordinate values. For additional details of the control survey, contact the Preliminary Survey department.

PROJECT DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 ADJUSTMENT)
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 10.
(U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for this U.S. Hwy 18 survey was provided by WHKS from the previous project IMN-080-6(483)208-0E-48, a similar survey involving the east-bound rest-stop of U.S. Hwy 18 immediately south of the current area of interest. Two PIs (4003 and 4022) used by WHKS to construct the alignment were field validated as part of this survey.

CONTROL POINT VICINITY MAP

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

HORIZ. DATUM: NAD83(2011) for EPOCH 2010.00 (IaRTN 2019 Adjustment) - Iowa RCS Zone 10 (U.S. Survey Foot)

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

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

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

Point Name	Northing	Easting	Elevation	Code/Description
4245	7948506.95	20343112.97	914.86	CP FND IOWA COUNTY GPS MONUMENT AS DESCRIBED IN GOOD CONDITION
4209	7948124.83	20327059.98	910.67	CP FND IOWA COUNTY GPS MONUMENT AS DESCRIBED IN GOOD CONDITION
4210	7947354.13	20358921.15	883.1	CP FND IOWA COUNTY GPS MONUMENT AS DESCRIBED IN GOOD CONDITION
4236	7964098.74	20343356.57	796.89	CP FND IOWA COUNTY GPS MONUMENT AS DESCRIBED IN GOOD CONDITION

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.

ACCESS CONTROL PREVIOUSLY ACQUIRED.

FILE NO.	ENGLISH	DESIGN TEAM	IOWA DOT * OFFICE OF ROW	COUNTY	PROJECT NUMBER	SHEET NUMBER	

HARTFORD TWP.
T-80N R-12W
SEC. 34
SE1/4 NW1/4

State of Iowa

Existing R.O.W.

I-80

176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00

48"x48' Conc. Pipe

42"x34' Conc. Pipe

15"x57' Conc. Pipe

Sta. 185+29.0
Skew 24° RT AH
42"x320' RCP
(LA 208.0 A-R (FROM PLANS)

SAN. SIGN FO E1 ST S W G

0 50 FEET

Right of Way Design Information

THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Larson / Hinrichsen
ROW #: IMN-080-6(539)208–0E-48
11/15/2024

Color Legend:

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

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-008-6(536)208-02-48	SHEET NUMBER H.1

7:35:47 AM 4/1/2025 thinric pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4808007022\ROW\ROW_48080539.dgn

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1

HARTFORD TWP.
T-80N R-12W
SEC. 34
SW1/4 NE1/4

Wiedemeier Farmland LLC

195+48.98
℄ 332.00' LT±EX R/W

200+86.00
℄ 332.00' LT

190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00 204+00 205+00

I-80

15"x117'
Conc. Pipe

24"x
Conc. Pipe

Sta. 194+19.2 13.8' LT
24"x55' RCP
D.A.=MEDIAN

Sta. 194+38.9
24"x137' RCP
D.A.=4.5 A-R (FROM PLANS)

Sta. 199+92.2
Skew 10° LT AH
30"x240' RCP
D.A.=8.0 A-R (FROM PLANS)

Sta. 200+
24"x55' RCP
D.A.=MEDIAN

0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY
ROW Team: Larson / Hinrichsen
ROW #: IMN-080-6(539)208–0E-48
Plan Date: 11/15/2024
Color Legend:
Property Lines
Temporary Easement
Permanent Acquisition
Permanent Acquisition County
Permanent Acquisition City

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER H.2

10:56:37 AM 5/21/2025 thinric pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4808007022\ROW\ROW_48080539.dgn

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HARTFORD TWP.
T-80N R-12W
SEC. 34
SE1/4 NE1/4

1

HARTFORD TWP.
T-80N R-12W
SEC. 35
SW1/4 NW1/4

Wiedemeier Farmland LLC

206+21.00
℄ 163.00' LT

211+56.00
℄ 158.00' LT

212+45.00
℄ 140.00' LT±EX R/W

Existing R.O.W.

205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00

Sta. 208+18.9 10.8' LT
24"x55' RCP
D.A.=MEDIAN

I-80

Sta. 206+70.4
24"x141' RCP
D.A.=2.0 A-R (FROM PLANS)

SIGN

SIGN

Sta. 213+75.2
Skew 45° LT Ahd
24"x242' RCP
D.A.=18.0 A-R

Sta. 219+18.4 10.1' LT
24"x59' RCP
D.A.=MEDIAN

0 50
FEET

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY

ROW Team: Larson / Hinrichsen
ROW #: IMN-080-6(539)208–0E-48
Plan Date: 11/15/2024
Color Legend:
- Property Lines
- Temporary Easement
- Permanent Acquisition
- Permanent Acquisition County
- Permanent Acquisition City

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER H.3

10:56:38 AM 5/21/2025 thinric pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\4808007022\ROW\ROW_48080539.dgn

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108-23A
08-01-08

TRAFFIC CONTROL PLAN

1. At least 1 lane of I-80 shall remain open to traffic at all times. Lane closures as necessary will be allowed during nighttime hours only, as follows:
   Sunday: 9 PM - 6 AM Monday
   Monday: 7 PM - 6 AM Tuesday
   Tuesday: 7 PM - 6 AM Wednesday
   Wednesday: 7 PM - 6 AM Thursday
   Thursday: 7 PM - 6 AM Friday
   Lane closures will not be allowed overnights on Fridays and Saturdays.
2. Shoulder closures will be allowed during lane closure hours (above), as well as Monday - Friday, 9 AM - 3 PM.
3. For construction less than 15 feet from the edge of shoulder, shift traffic per details shown elsewhere in these plans.
4. Refer to staging plan for rest area closure information. The existing rest area is to remain open to traffic as much as possible. Notify DOT staff at least 2 weeks prior to expected closing date.

108-26A
08-01-08

STAGING NOTES

Stage 1: Traffic utilizes existing I-80 and existing rest area ramps. Rest area remains open to traffic.
- Construct inside shoulder strengthening on I-80 from STA. 171+44.50 to STA. 222+13.00. Will require inside lane closure to construct.

Stage 2: Traffic utilitzes existing I-80 and existing rest area ramps. Rest area remains open to traffic.
Construct truck parking areas and ramps more than 15' from the edge of I-80 shoulders. Includes:
- Ramp E from Sta. 5010+48.62 to Sta. 5019+52.57, including truck parking area.
- Ramp A from Sta. 1006+83.88 to Sta. 1021+14.88.
Ensure that positive drainage is maintained at all times.

Stage 3: Shift I-80 traffic onto inside shoulder. Existing rest area ramps and parking area to remain open to traffic.
Construct ramp, taper, and shoulders adjacent to I-80. Includes:
- Westbound outside shoulder from Sta. 207+93.88 to Sta. 213+93.87.
- Deceleration taper.
- Ramp A from Sta. 1021+14.88 to Sta. 1021+66.99.
Ensure that positive drainage is maintained at all times.

Stage 4: I-80 traffic remains shifted to inside shoulder. Rest area is closed to all traffic.
Construction includes:
- Westbound outside shoulder from Sta. 175+31.03 to Sta. 181+33.51 and Sta. 196+88.19 to Sta. 203+73.11.
- Remove existing tapers and rest area pavement.
- Remaining truck parking area.
- Car parking area.
- Acceleration taper and acceleration lane.
- Ramp C from Sta. 3011+70.11 to Sta. 3021+45.52.

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
			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

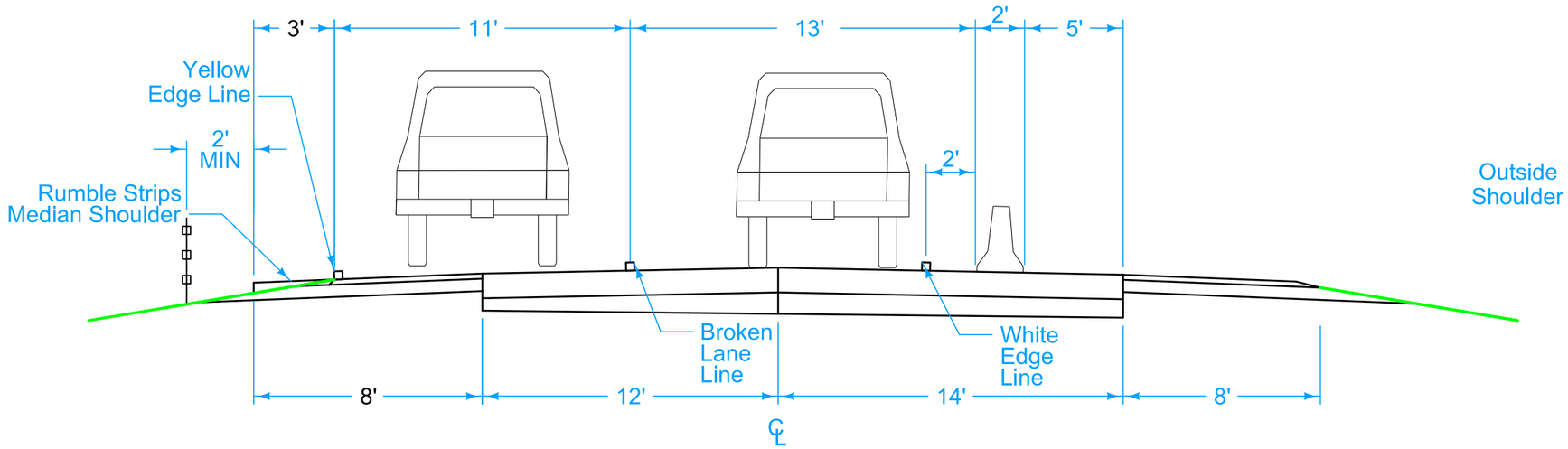
PLAN VIEW PATTERN AND SYMBOL LEGEND OF TRAFFIC CONTROL AND STAGING SHEETS

●	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

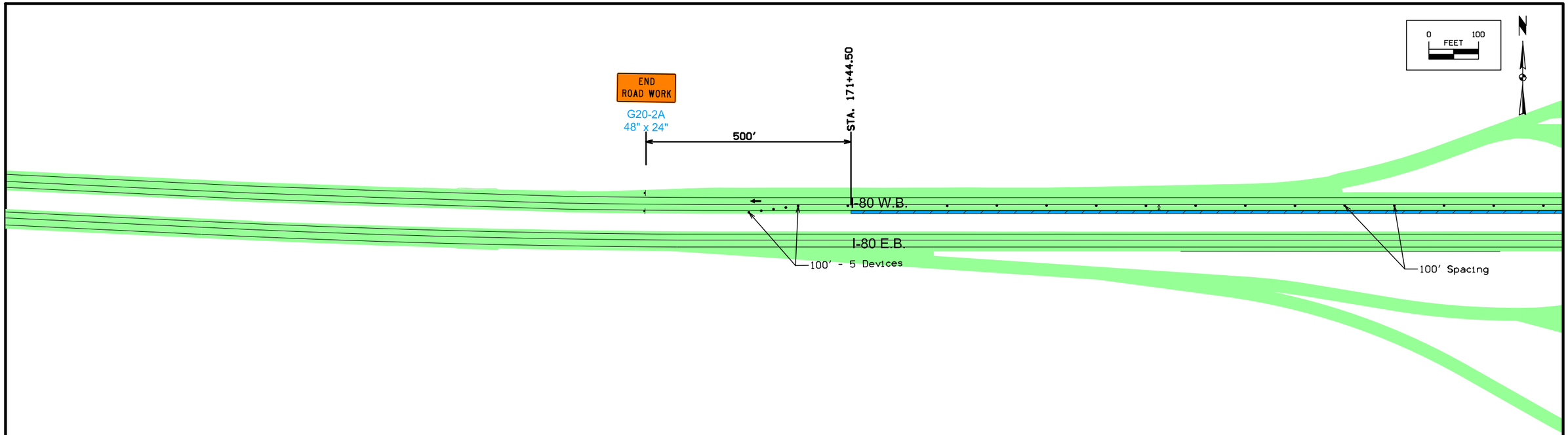
NOTE: Device spacing according to Standard Road Plans unless specifically dimensioned.

TRAFFIC CONTROL AND STAGING LEGEND AND SYMBOL INFORMATION SHEET

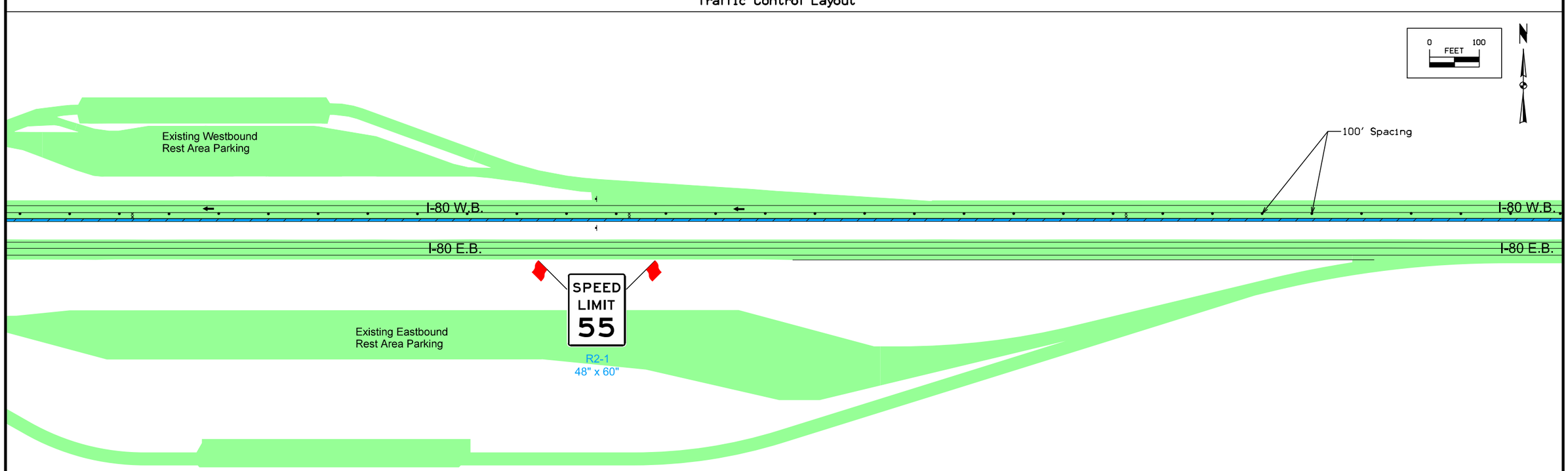
(COVERS SHEET SERIES J)



INTERSTATE 80 W.B. IOWA COUNTY
Traffic Control Lane Shift
Section Shown in Direction of Traffic



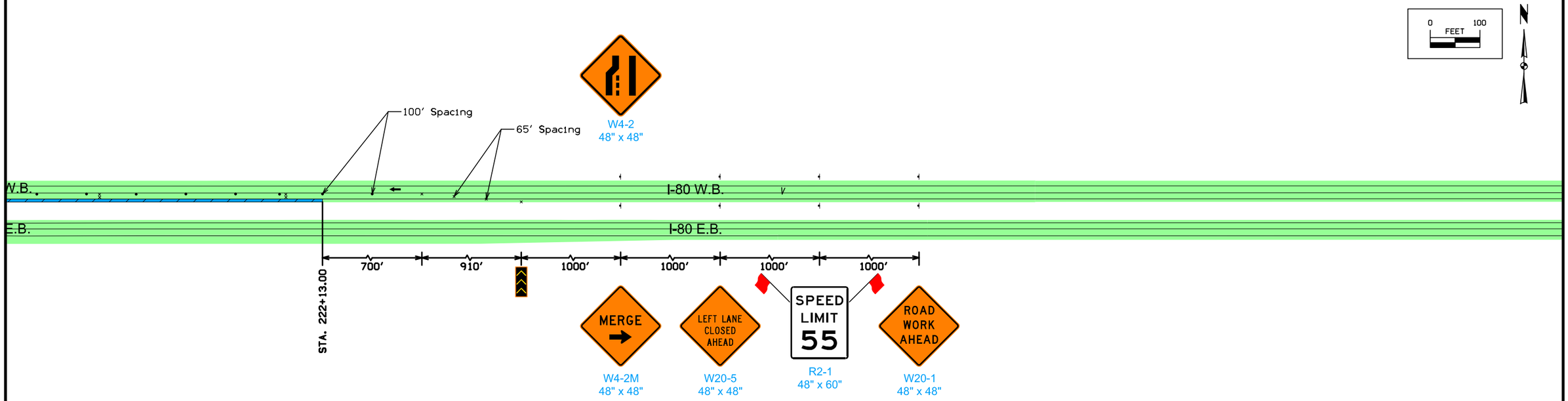
Stage 1
Traffic Control Layout



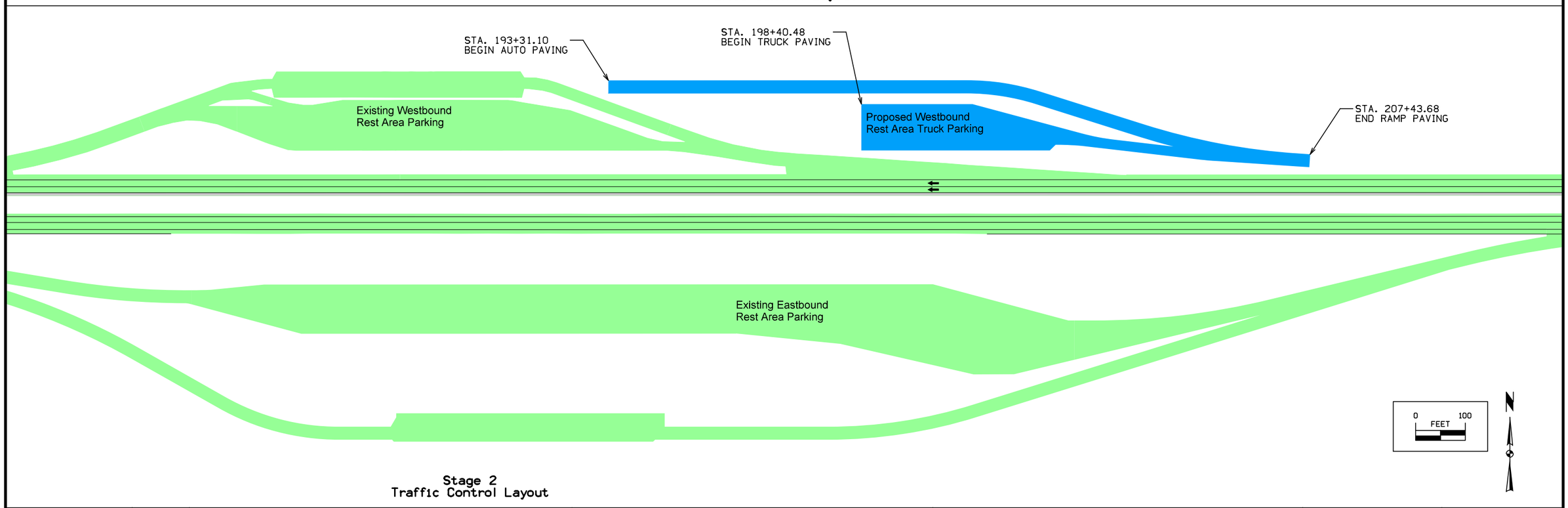
Stage 1
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER J.4	

11:18:32 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_J04.dgn



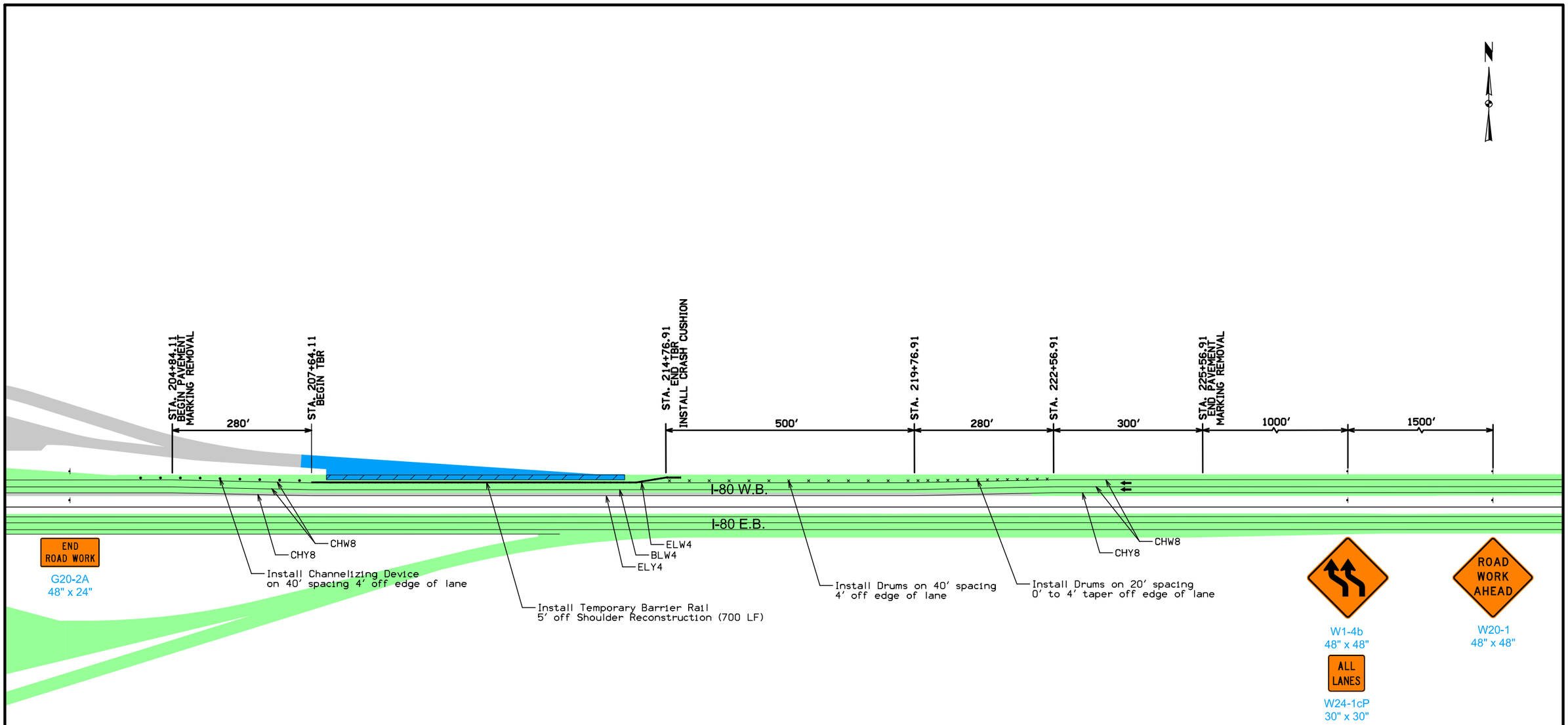
Stage 1
Traffic Control Layout



Stage 2
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Iowa** COUNTY	PROJECT NUMBER **IMX-080-6(536)208--02-48**	SHEET NUMBER **J.5**

11:18:32 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_J04.dgn



When a temporary lane shift is necessary:

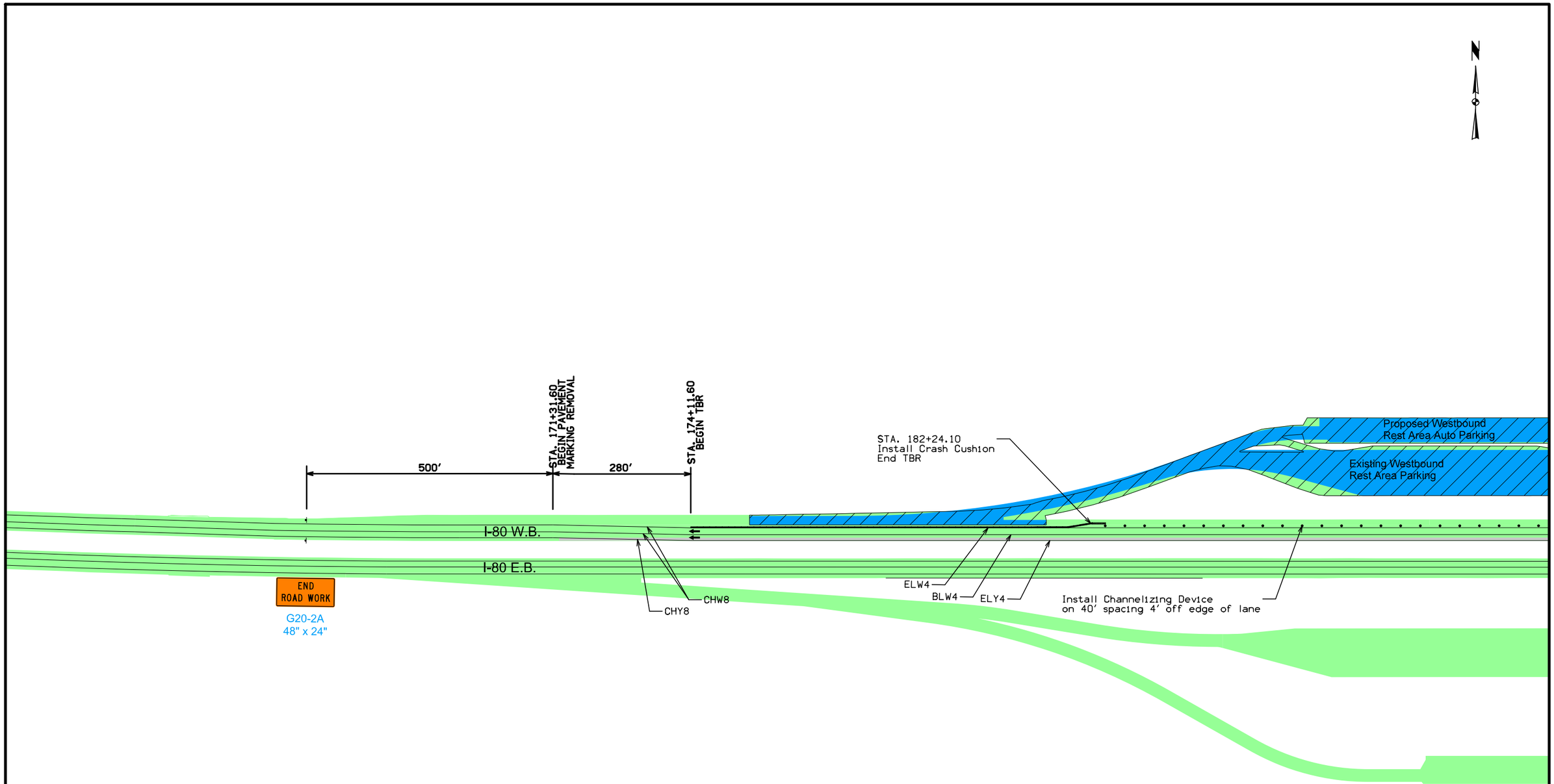
1. Place solid white line (CHW8) between all lanes. Also place a yellow lane line (CHY8) on median side through this area.

0 FEET 100

Stage 3
I-80 Lane Shift
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Snyder & Associates**	Iowa COUNTY	PROJECT NUMBER **IMX-080-6(536)208--02-48**	SHEET NUMBER **J.6**

11:18:33 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_J04.dgn



When a temporary lane shift is necessary:

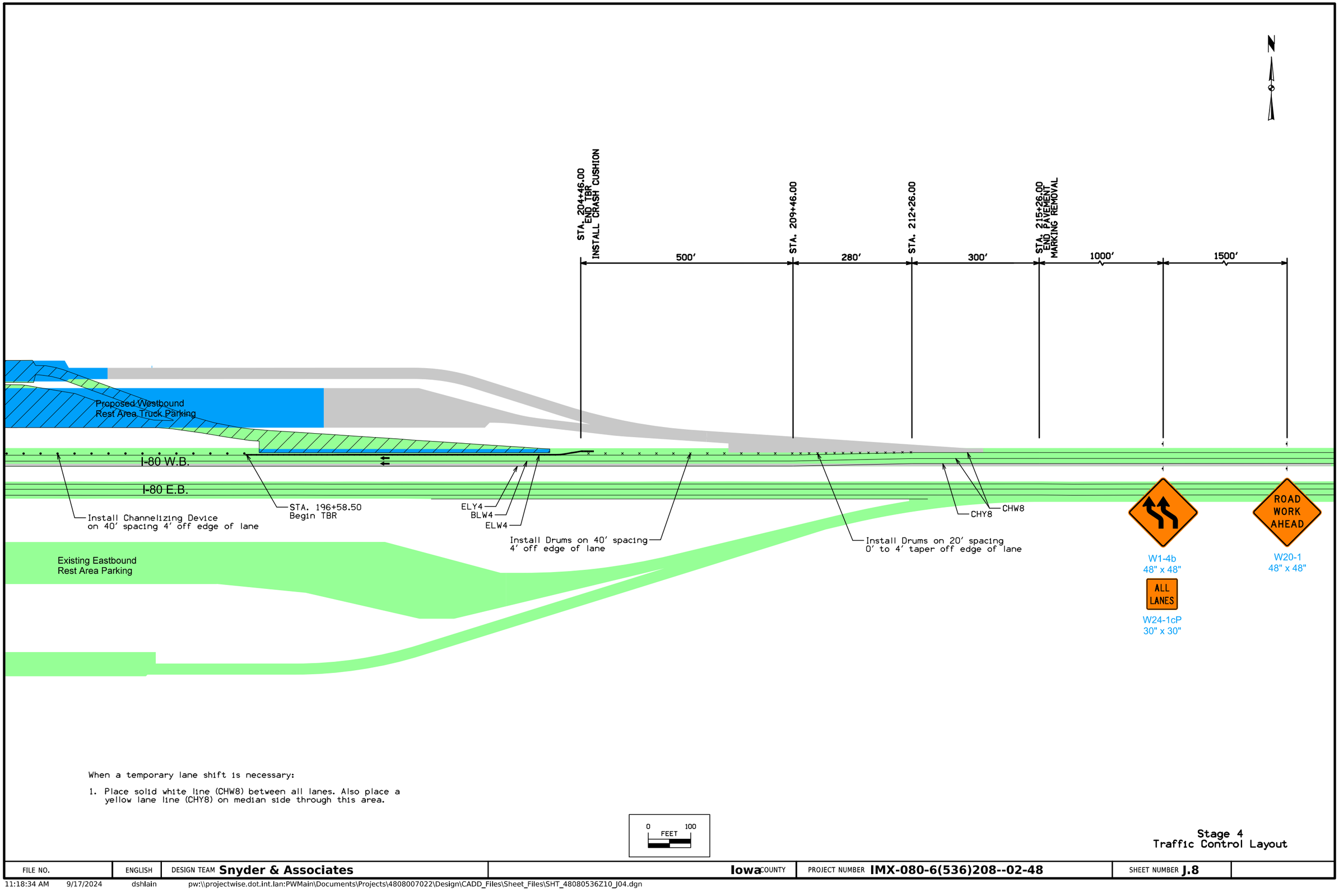
1. Place solid white line (CHW8) between all lanes. Also place a yellow lane line (CHY8) on median side through this area.

0 FEET 100

Stage 4
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Iowa** COUNTY	PROJECT NUMBER **IMX-080-6(536)208--02-48**	SHEET NUMBER **J.7**	

11:18:34 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_J04.dgn



When a temporary lane shift is necessary:

1. Place solid white line (CHW8) between all lanes. Also place a yellow lane line (CHY8) on median side through this area.

0 100
FEET

Stage 4
Traffic Control Layout

FILE NO.	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Iowa** COUNTY	PROJECT NUMBER **IMX-080-6(536)208--02-48**	SHEET NUMBER **J.8**	

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

UTILITY LEGEND

E2	(WIL) Iowa Department of Transportation Contact Name : Jim Hanson Contact Phone: 3196682397 Contact Email: james.hanson@dot.iowa.gov
G	
SAN.	
FO	(COP) Cooperative Telephone Company Contact Name : Scott Schabacker Contact Phone: 3196473131 Contact Email: cooptel@netins.net
FO2	(ICNDOT) Iowa Communications Network Contact Name : Shannon Marlow Contact Phone: 8005723940 Contact Email: icnoutsideplantiowaonecall@iowa.gov
W	(PWA) Poweshiek Water Association Contact Name : Rick Anderson Contact Phone: 6415227416 Contact Email: rick@poweshiekwater.com
E1	(TIP) Tip Rural Electric Cooperative Contact Name : Scott Long Contact Phone: 8009347976 Contact Email: slong@tiprec.com
Clear	(MAW) MidAmer-Wind Contact Name : Wind Engineer Contact Phone: 8006320999 Contact Email: mecdsmdesignlocates@midamerican.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 D, E, F, & K)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER **K.1**

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HARTFORD TWP.
T-80N R-12W
SEC. 35

Curve 1 Ramp G Ret
Δ = 02°50'44.52" (LT)
T = 50.07'
L = 100.13'
R = 2016.00'
E = 0.62'
e = ___
L = ___
x = ___

Curve 1 Ramp G Ret
Δ = 33°02'05.46" (RT)
T = 143.82'
L = 279.63'
R = 485.00'
E = 20.88'
e = ___
L = ___
x = ___

POT STA 3021+04.39 (Ramp C)
= STA 1000+00.00 (Ramp A)

POT STA 3019+25.59 (Ramp C)
= STA 6999+40.63 (Ramp G)

Curve 1 Ramp C
Δ = 20°11'42.51" (LT)
T = 356.17'
L = 704.94'
R = 2000.00'
E = 31.47'
e = 5.4%
L = 168
x = 62

Δ = 02°45'29.75" (LT)
T = 551.80'
L = 1103.39'
R = 22920.00'
E = 6.64'
e = NK
L = 0
x = 0

STA 3014+79.03 (Ramp C)
= STA 180+44.32, 84.72' LT I-80
Point F on Standard Detail 533-02

160+00
165+00
3000+00
3005+00
3010+00
3015+00
9+00
10+00
11+00
3020+00
7000+00
12+00
1000+00
18+00
5000+00

PT 3018+75.06
POB 6999+00.00
PC 3019+84.73
PT 3020+45.19
POB 1000+00.00
POB 4999+41.88
POE 3022+25.00

PI 169+42.00
PC 3011+70.11

Ramp A
Ramp G
Ramp G ret
Ramp E
Ramp C
Curve 1
Ramp C
Curve 2
Ramp C
50:1 Taper
20°11'
I-80 Existing W.B.
POT STA 179+27.13
PI 3015+26.28
PT 3021+04.39
Curb Ramp G
Return

170+00
175+00
180+00
185+00
190+00

PI 163+90.41

POT STA: 3017+97.67, OFF: 20.00' RT (Ramp C)
= STA 9+99.87, OFF: 4.00' RT (Ramp G Ret)

POT STA: 13+82.20, OFF: 0.00' RT (Ramp G Ret)
= STA 4999+41.18, OFF 0.00' RT (Ramp E)

Curve Ramp C
Δ = 20°09'54.44" (RT)
T = 60.46'
L = 119.66'
R = 340.00'
E = 5.33'
e = ___
L = ___
x = ___

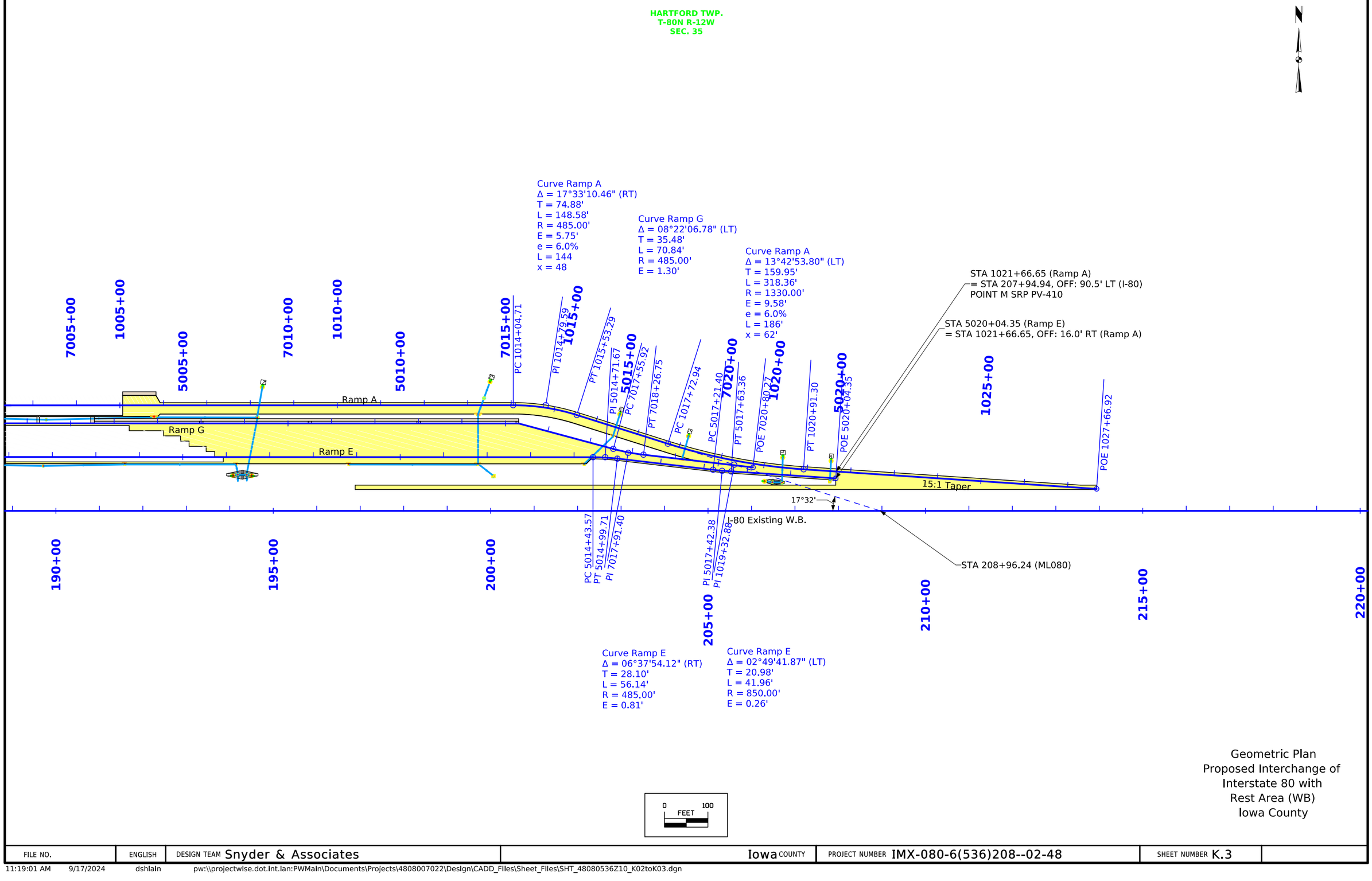
0 100
FEET

Geometric Plan
Proposed Interchange of
Interstate 80 with
Rest Area (WB)
Iowa County

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.2

11:19:00 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_K02toK03.dgn

HARTFORD TWP.
T-80N R-12W
SEC. 35



Geometric Plan
Proposed Interchange of
Interstate 80 with
Rest Area (WB)
Iowa County

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.3

11:19:01 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_K02toK03.dgn

BEGIN CONSTRUCTION
POT STA 1000+00.00 (Ramp A)
= STA 3021+04.39 (Ramp C)

HARTFORD TWP.
T-80N R-12W
SEC. 35

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

STA 1000+52.13
Suspend Reconstruction
Begin Widening

STA 1005+06.47
End Widening
Resume Reconstruction

Construction Limits

Ramp A

Ramp G

Ramp E

POB 1000+00.00

15"x109' Conc. Pipe (Abandon)

15"x117' Conc. Pipe (Abandon)

24"x91' Conc. Pipe

18"x? Conc. Pipe (Remove)

18"x27' Conc. Pipe (Remove)

24"x7' Conc. Pipe

Sta. 194+19.2 13.8' LT

I-80 Existing W.B.

0 50 FEET

RAMP A

VPI = +47.00
EL = 923.21
L = 90.00'
K = 48

VHP = 1002+43.76
EL = 923.00

VPC = 1002+02.00
EL = 922.82

VPT = 1002+92.00
EL = 922.76

+0.87%

-1.00%

BEGIN CONSTRUCTION
STA 1000+00.00
ELEV=921.06

VPC = 1006+30.00
EL = 919.37

VPT = 1006+70.00
EL = 919.08

-1.00%

-0.45%

Proposed Profile Line

Existing Ground Line

-1.87% LT Ditch Grade

+0.46% LT Ditch Grade

-1.00% LT Ditch Grade

-2.07% LT Ditch Grade

-0.25% LT Ditch Grade

LT +05 911.48

LT +30 907.28

LT +00 907.60

LT +50 906.10

LT +50 901.96

VPI = +50.00
EL = 919.17
L = 40.00'
K = 73

Lt Med Rt

No Ditch

Ditch Grade

965 960 955 950 945 940 935 930 925 920 915 910 905 900 895 890 875 870

921.06 921.28 921.50 921.71 921.93 922.15 922.37 922.58 922.80 922.96 922.99 922.90 922.68 922.42 922.17 921.92 921.67 921.42 921.17 920.92 920.67 920.42 920.17 919.92 919.67 919.42 919.19 919.05 918.94 918.83 918.71 918.60 918.49 918.38 918.26 918.15 918.04 917.92 917.81 917.70 917.59 917.47 917.36 917.25 917.13 917.02 916.91 916.80 916.68 916.57 916.46 916.34 916.23 916.12 916.01

999+00 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

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.4

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Δ = 17°33'10.46" (RT)
T = 74.88'
L = 148.58'
R = 485.00'
E = 5.75'
e = 6%
L = 144'
x = 48'

Δ = 13°42'53.80" (LT)
T = 159.95'
L = 318.36'
R = 1330.00'
E = 9.58'
e = 6.0%
L = 186'
x = 62'

HARTFORD TWP.
T-80N R-12W
SEC. 35

Construction Limits

Sta. 1020+68
Install Type M Dike
Top Elev = 906.80

END CONSTRUCTION
STA 1021+66.65
POINT M ON SRP PV-410

Existing ROW

PI 1014+79.59
PC 1014+04.7
PT 1015+53.29
PC 1017+72.94
PI 1019+32.88
PT 1020+91.30
POE 1027+66.02

Ramp A

I-80 WB

Sta. 206+18.9 13.8' LT
24"x55' RCP
D.A.=MEDIAN

Sta. 206+70.4
24"x141' RCP
D.A.=2.0 A-R (FROM PLANS)

0 FEET 50

Sta. 213+75.2
Skew 45° LT AH
36"x242' RCP
D.A.=18.0 A-R

RAMP A

VPI = +00.00
EL = 913.52
L = 220.00'
K = 154

VPC = 1017+90.00
EL = 914.02

VPT = 1020+10.00
EL = 911.45

Proposed Profile Line

END CONSTRUCTION
STA 1021+66.65
ELEV=908.51

-0.25% LT Ditch Grade
+4.73% LT Ditch Grade
-2.20% LT Ditch Grade
+1.43% LT Ditch Grade
-0.45%
-1.88%
-0.19% LT Ditch Grade
+0.20% LT Ditch Grade
-5.73% LT Ditch Grade
-3.84% LT Ditch Grade

LT +75 901.65
LT +16 899.30
LT +00 908.00
LT +00 905.80
LT +26 905.75
LT +36 905.77
LT +00 908.12
LT +20 906.26
LT +45 905.30

Existing Ground Line

Lt Med Rt
Ditch Grade
5' Ditch
Ditch Grade
5' Ditch
5' Ditch
Dike

915.89 915.78 915.67 915.55 915.44 915.33 915.22 915.10 914.99 914.88 914.76 914.65 914.54 914.42 914.31 914.20 914.09 913.97 913.82 913.63 913.40 913.13 912.82 912.47 912.07 911.64 911.17 910.70 910.23 909.76 909.29 908.82 908.51

1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00 1022+00 1023+00 1024+00 1025+00 1026+00 1027+00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.5

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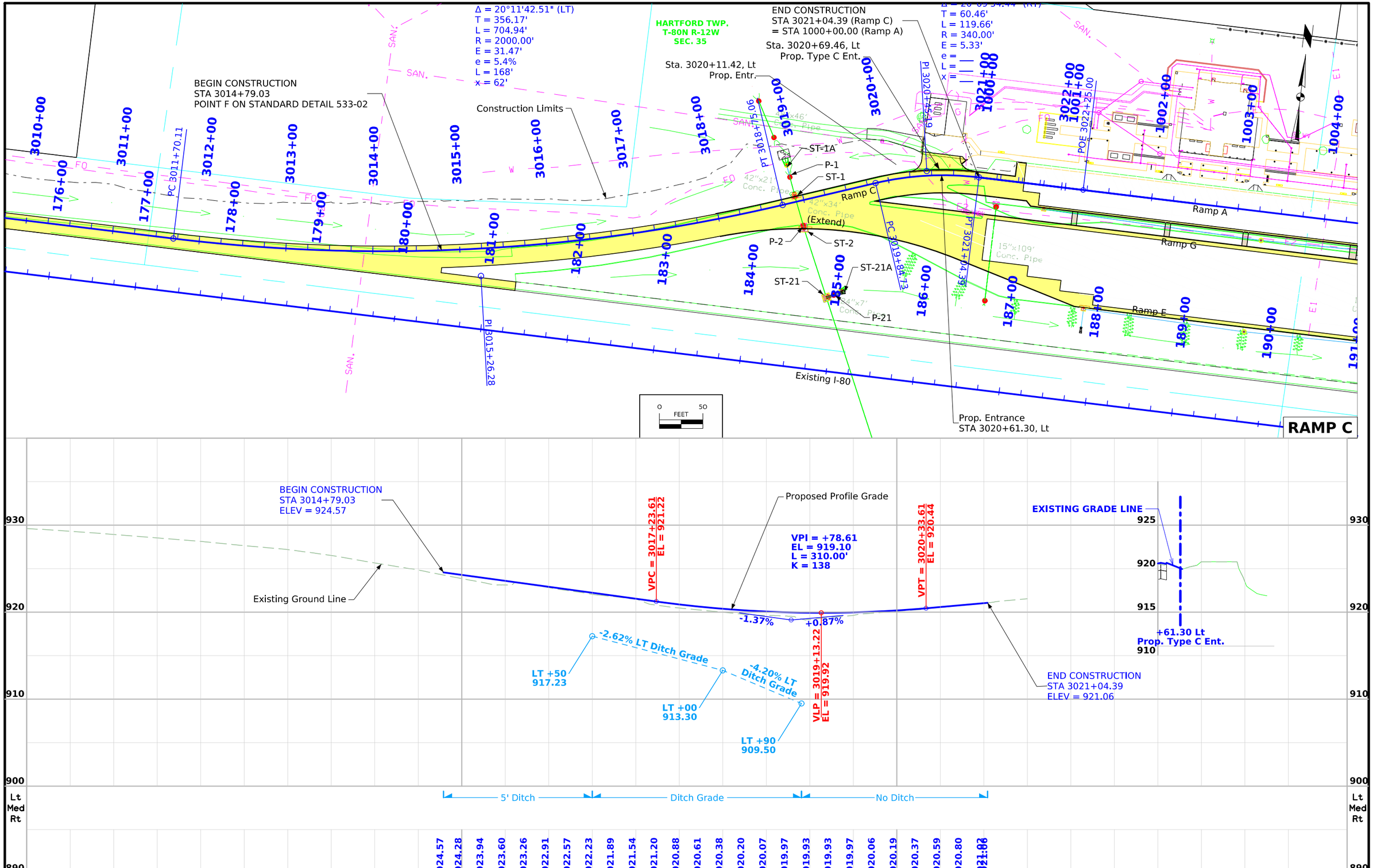


FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.6

11:19:45 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_K06.dgn

RPC - Profile 1-2

HARTFORD TWP.
T-80N R-12W
SEC. 35

Construction Limits

Ramp A

Ramp G

Ramp C

48″x46′ Conc. Pipe

42″x21′ Conc. Pipe

42″x34′ Conc. Pipe

15″x109′ Conc. Pipe

15″x117′ Conc. Pipe

24″x7′ Conc. Pipe

18″x27′ Conc. Pipe

Sta. 194+19.2 13.8′ LT
24″x55′ RCP
D.A.=MEDIAN

Sta. 194+38.9
24″x137′ RCP
D.A.=4.0 A-R (FROM PLANS)

Sta. 185+29.0
Skew 24° RT AH
42″x320′ RCP

0 50 FEET

STA 4999+41.88
Begin Widening

Existing I-80

STA 5005+93.18
End Widening
Begin Reconstruction

RAMP E

BEGIN WIDENING
STA. 4999+41.88
ELEV. = 919.86

STA. 5005+93.18
BEGIN RECONSTRUCTION
ELEV. = 918.27

Proposed Profile Line

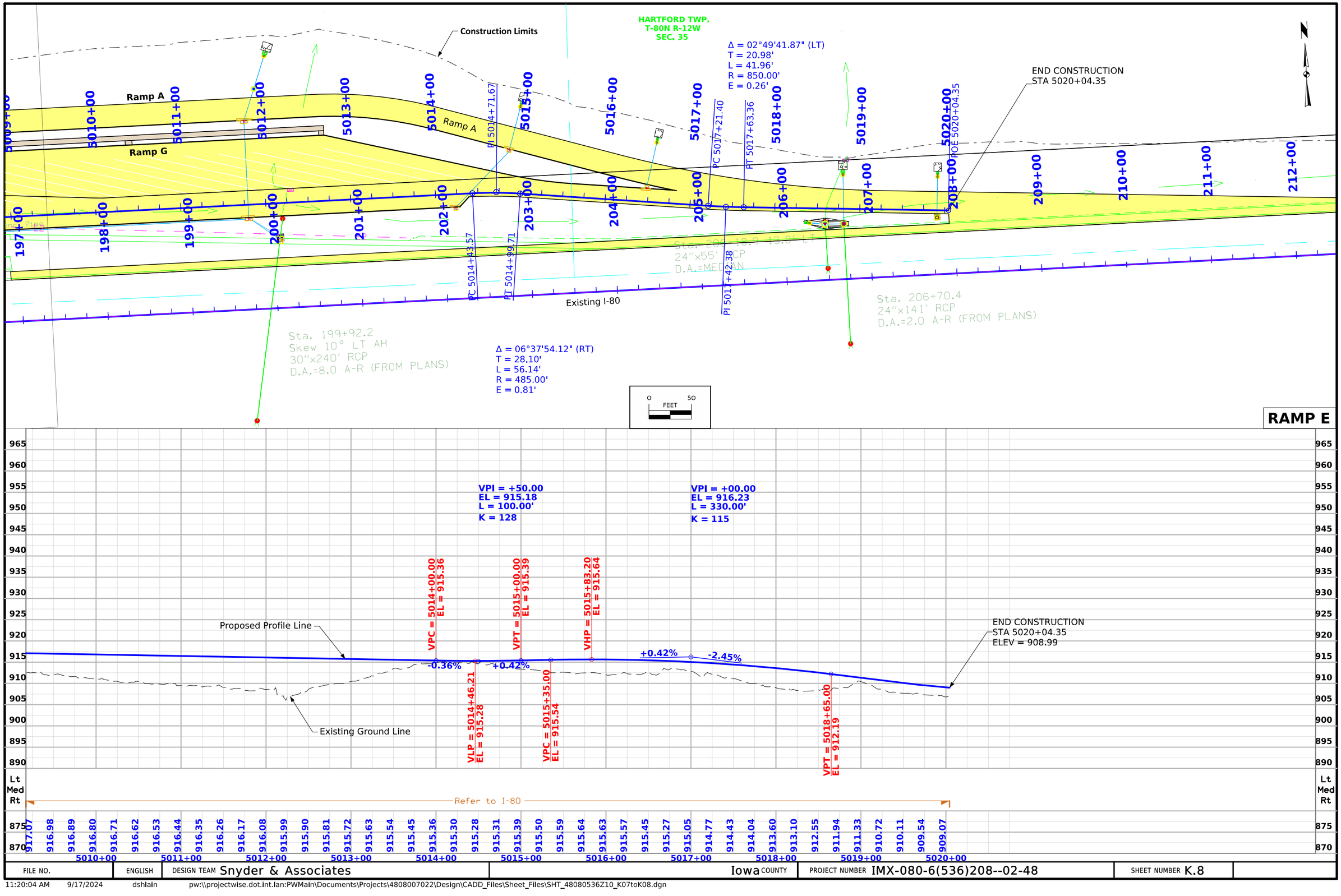
-0.36%

Existing Ground Line

Refer to I-80

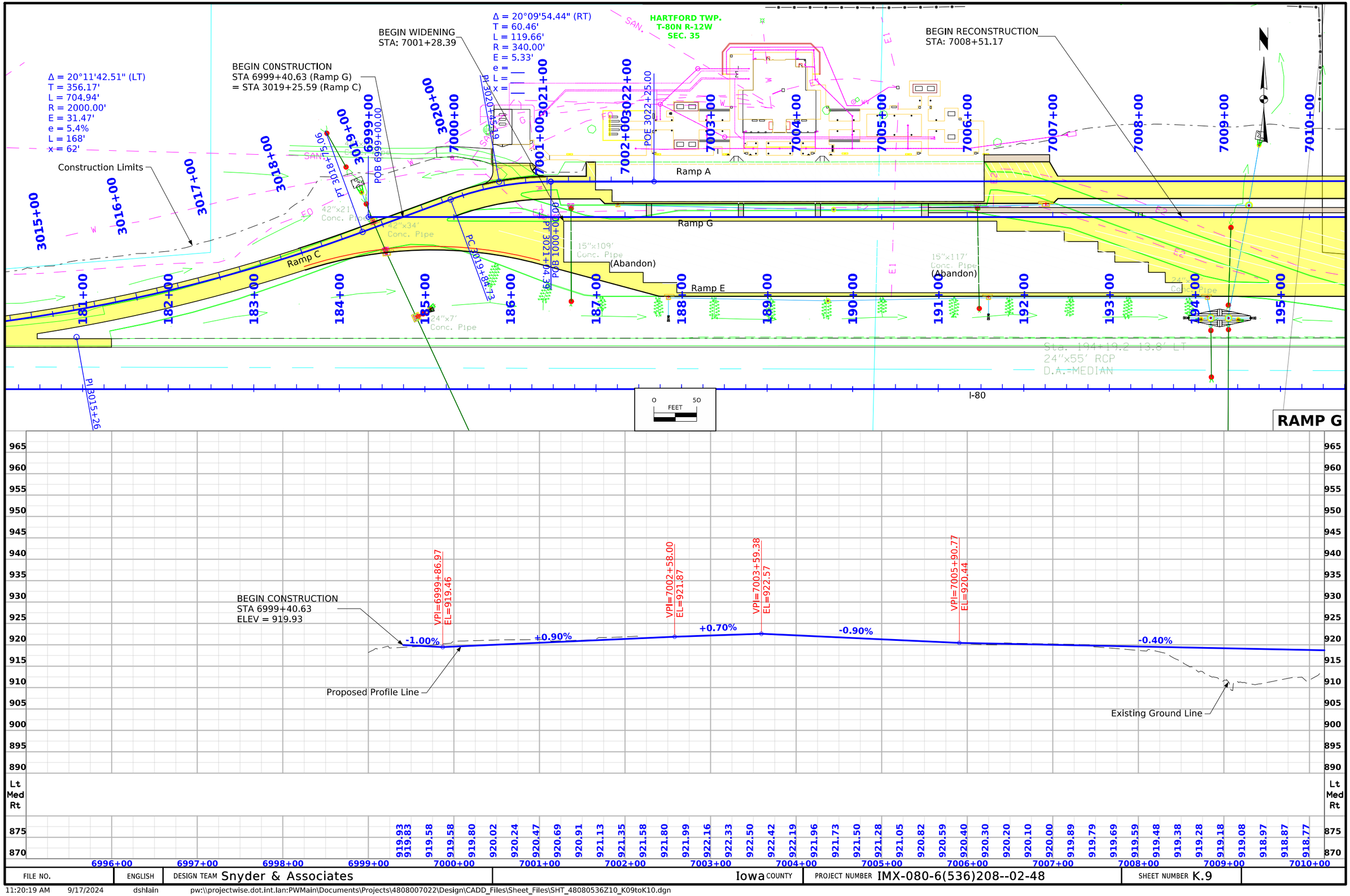
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.7

11:20:00 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_K07toK08.dgn



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.8

11:20:04 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_K07toK08.dgn



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.9	

11:20:19 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_K09toK10.dgn

HARTFORD TWP.
T-80N R-12W
SEC. 35

Δ = 08°22'06.78" (LT)
T = 35.48'
L = 70.84'
R = 485.00'
E = 1.30'

Construction Limits

Ramp A

Ramp G

Ramp E

Ramp A

PCT 7015+30.46

PC 7017+55.92

PT 7018+26.75

POE 7020+80.27

PI 7017+91.40

18"x27' Horz. Elliptical Pipe (Remove)

Existing I-80

END CONSTRUCTION
STA 7019+80.27

0 FEET 50

RAMP G

Proposed Profile Line

VPI=7015+30.46
EL=916.60

-0.40%

-0.20%

-0.70%

-1.20%

END CONSTRUCTION
STA 7019+80.27
ELEV = 914.34

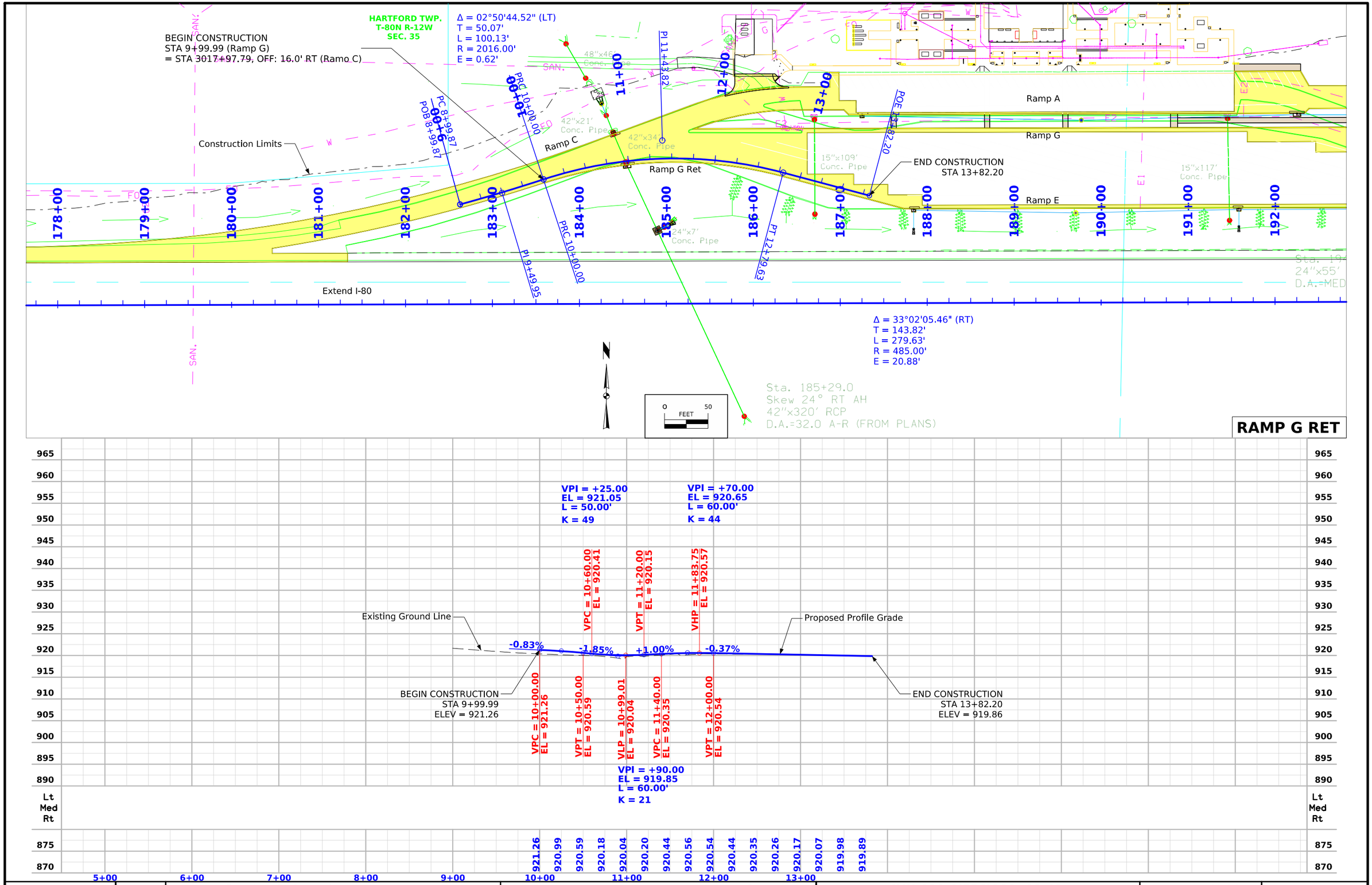
Existing Ground Line

VPI=7018+50.63
EL=915.80

VPI=7018+78.63
EL=915.61

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.10

11:20:21 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_K09toK10.dgn



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER K.11

11:20:34 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_K11.dgn

① Diameter or equivalent diameter

STORM SEWER

* Bid Item
** For SW-545

INTAKES AND UTILITY ACCESSES

No.	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Ext. Length** FT	Notes
1	3018+91.48, 6.5' LT	SW-507, TOP-ONLY	919.68			
1A	3018+89.83, 51.2' LT	DR-201, 42" FES				Flow Line=909.50
2	10+97.97, 4.5' RT	SW-509	919.86	912.83		
19	11+29.51, 82.4' RT	SW-406 (6'x6')	919.20	913.19		
19A	11+54.64, 69.0' RT	DR-201, 24" FES				Flow Line=913.88
3	1000+78.38, 26.0' RT	SW-507	921.22	917.62		
4	4999+92.77, 15.5' RT	SW-507	919.61	916.50		
4A	5001+79.15, 20.5' RT	SW-401 (48")	919.89	915.59		
3A	1003+30.49, 33.0' RT	SW-401 (48")	922.32	915.96		
5	1005+78.60, 26.0' RT	SW-509	919.36	914.33		
5A	1008+15.95, 28.3' RT	SW-401 (84")	918.56	908.61		
5B	1008+28.92, 48.1' LT	DR-201, 30" FES				Flow Line=907.28
6	5003+66.82, 15.5' RT	SW-507	918.77	914.47		
8	5006+22.71, 15.5' RT	SW-507	917.85	912.86		
18	5006+09.11, 43.0' RT	DR-201, 15" FES				Flow Line=915.27
18A	5006+26.66, 40.5' RT	SW-401 (84")	917.35	911.96		
17A	5006+47.42, 40.7' RT	SW-401 (84")	917.35	911.59		
17	5006+64.86, 43.8' RT	DR-201, 15" FES				Flow Line=915.02
9	5008+81.97, 15.5' RT	SW-507	916.92	913.32		
16	5012+14.59, 43.5' RT	SW-406 (6'x6')	913.09	908.20		SW-604, Type C
10	5011+79.35, 15.5' RT	SW-509	915.85	907.67		
7	1013+24.00, 20.5' RT	SW-509	916.26	906.55		
7A	1013+37.44, 16.1' LT	SW-401 (60")	914.50	902.52		
7B	1013+53.52, 59.9' LT	DR-201, 30" FES				Flow Line=901.70
12	5014+23.36, 15.5' RT	SW-507	914.99	911.38		
11	1016+47.15, 20.5' RT	SW-507	914.80	910.63		
11A	1016+47.15, 37.8' LT	DR-201, 15" FES				Flow Line=906.96
13	5016+48.10, 16.0' LT	SW-507	915.15	908.83		
13A	1018+13.93, 36.6' LT	DR-201, 15" FES				Flow Line=906.89
14	5018+34.81, 17.0' RT	DR-201, 15" FES				Flow Line=910.90
14A	5018+59.33, 18.5' RT	SW-401 (84")	911.50	906.66		
14B	5018+81.37, 17.5' RT	SW-401 (84")	911.50	906.28		
14C	1020+40.48, 29.1' LT	DR-201, 24" FES				Flow Line=905.45
15	1021+53.28, 24.6' RT	SW-406 (4'x4')	908.75	905.39		SW-604, Type C
15A	1021+53.15, 29.7' LT	DR-201, 15" FES				Flow Line=903.76

PIPES

Design Length, Slope, and Flowlines are calculated from center to center of structures.

Line Number	Intake/ Utility Access No. From	Intake/ Utility Access No. To	Class 'D'	① Pipe Size IN	Bid* Length FT	Design Length FT	Slope %	Connected Pipe Joint (DR-121) Type	Flow Lines Inlet Elevation	Flow Lines Outlet Elevation	Flow Lines Other Elevation	Pipe Profile Sheet No.	Notes
1	-	1A	X	42	14	22.0	2.4	C-1		909.69	910.03		Field Verify
2	2	-	X	42	4.1	4.1	1.08	C-1	913.33		913.29		Field Verify
19	19A	19	X	24	16	25.1	0.77		913.83	913.71			
4	4	4A	X	15	182.4	186.4	0.5		917.00	916.09			
4A	4A	6	X	15	183.7	187.7	0.5		915.99	915.07			
6	6	8	X	18	251.9	255.9	0.6		914.97	913.46			
3	3	3A	X	15	248.2	252.2	0.55		918.12	916.76			
3A	3A	5	X	15	242.2	246.2	0.55		916.46	915.13			
5	5	5A	X	15	229.9	237.4	2		914.83	910.23			
8	8	18A	X	18	18.9	24.4	2.96		913.36	912.80			
18	18	18A	X	15	8	17.8	10		914.64	913.84			
18B	-	18A	X	24	11.2	14.7	4.28	C-1		912.80	913.28		
18A	18A	17A	X	30	13.8	20.8	0.5		912.46	912.39			
18C	-	17A	X	24	9.9	13.4	1.46	C-1		912.48	912.63		
17	17	17A	X	15	8	17.8	10		914.39	913.59			
17A	17A	5A	X	30	127	134.0	2		912.09	909.55			
5A	5A	5B	X	30	67.9	77.5	2.47		909.11	907.43			
9	9	10	X	15	291.4	297.4	1.7		913.82	908.87			
16	16	10	X	30	35.8	42.8	0.56		908.70	908.50			
10	10	7	X	36	111.6	114.6	0.73		908.17	907.35			
7	7	7A	X	24	36.5	40.5	4		907.05	905.59			
7A	7A	7B	X	30	38	45.6	3		903.02	901.88			
12	12	11	X	18	90.1	93.1	0.5		911.88	911.43			
11	11	11A	X	15	52	59.8	7.16		911.13	907.40			
13	13	13A	X	15	52	59.8	4.19		909.33	907.15			
14	14	14A	X	15	14.8	24.6	14.3		910.00	907.89			
14A	14A	14B	X	30	15.1	22.1	0.5		907.16	907.08			
14B	14B	14C	X	24	54	63.7	2.21		906.78	905.59			
15	15	15A	X	15	46	54.3	4.07		905.89	904.02			

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

UTILITY LEGEND

PLAN VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Topographic Features, Utilities, and Labels
Black	(17)	Proposed Storm Sewer Details, Alignment, Stationing, Tic Marks, and Alignment Annotation
SHADING	**Design Color No.**	
Gray, Light	(48)	Proposed Pavement Shading

PROFILE VIEW COLOR LEGEND OF STORM SEWER SHEETS

LINEWORK	Design Color No.	
Gray, Dark	(112)	Existing Ground Line Profile and Existing Utilities Information
Black	(17)	Proposed Pipes and Intakes

PLAN VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Plug and Abandon Existing Pipe or Structure
- Removal of Existing Pipe or Structure
- Previously Constructed Pipe or Structure
- Direction of Pipe Flow

PROFILE VIEW LINE STYLE LEGEND OF STORM SEWER SHEETS

- Existing Ground
- Proposed Ground
- Previously Constructed Pipe or Structure
- Proposed Pipe or Structure

- Reference Point / Station — Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Clearing & Grubbing Area
- Pavement Removal

RIGHT-OF-WAY LEGEND

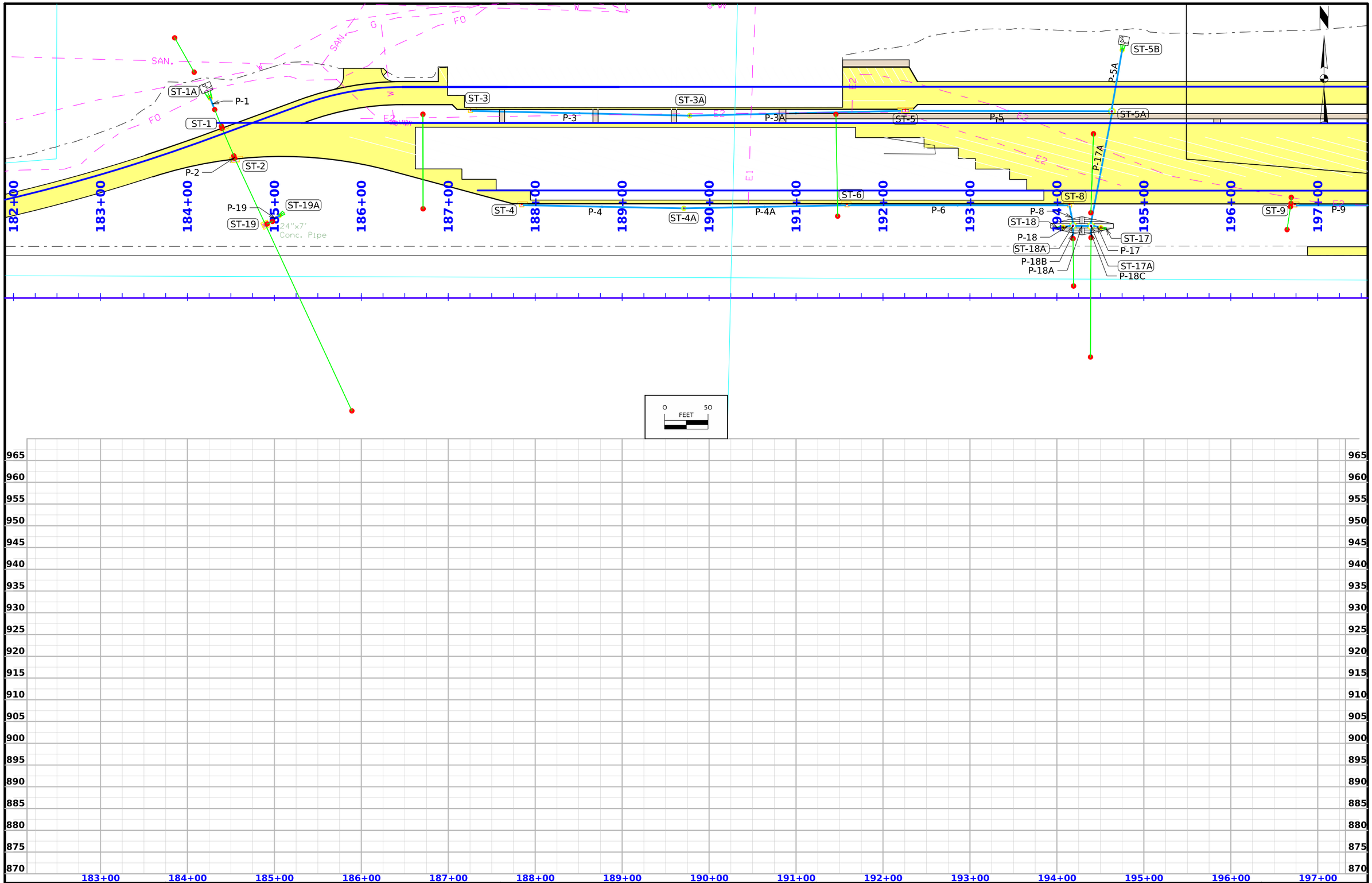
- Proposed Right-of-Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Borrow
- Easement (Temporary)
- Easement
- Excess
- A/C Access Control

STORM SEWER LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES M)

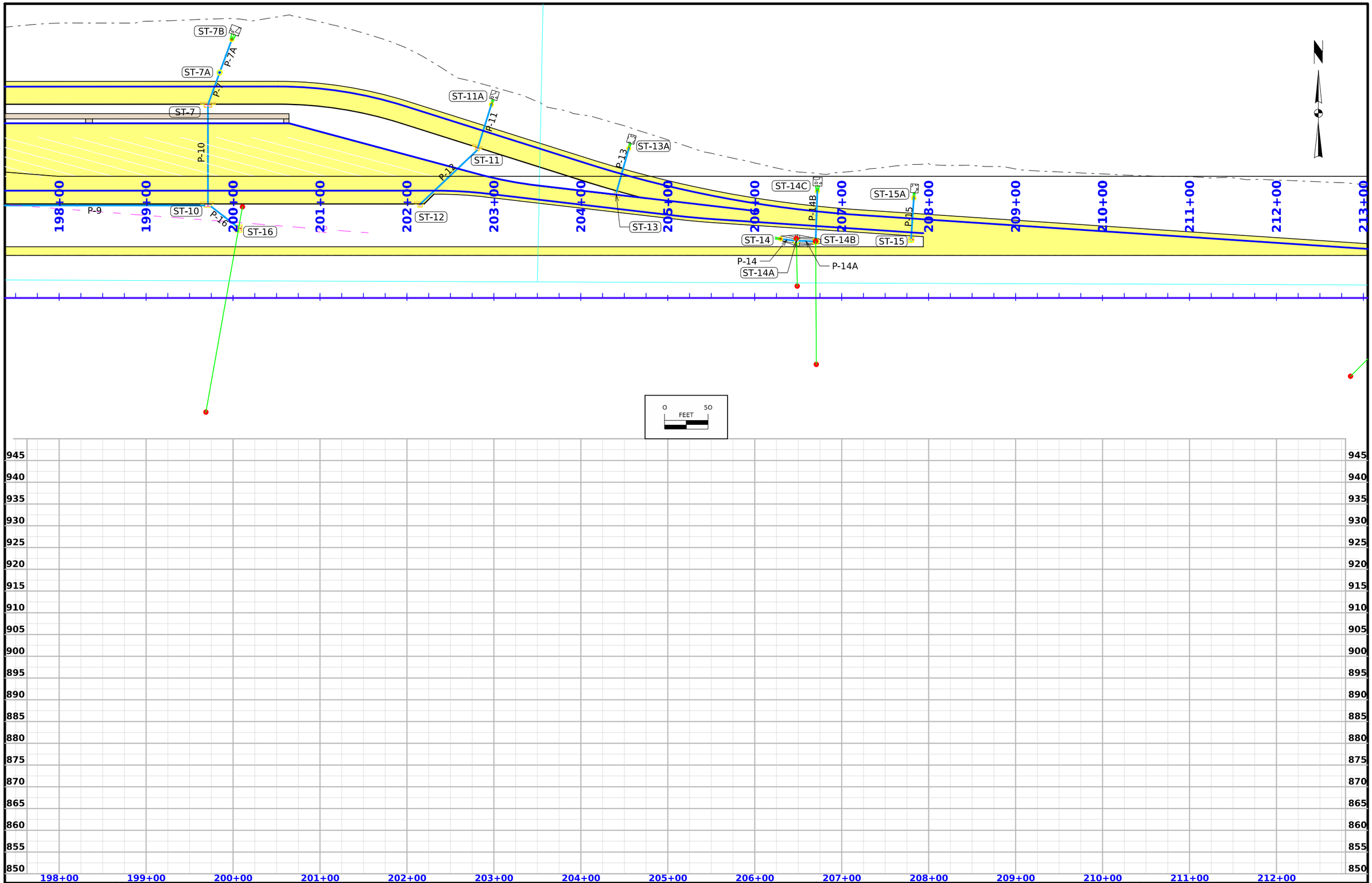
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER M.2

11:21:01 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_4808536Z10_LGD.dgn



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER M.3

11:08:56 AM 9/17/2024 dshlain pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_M03toM04.dgn



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER M.4	

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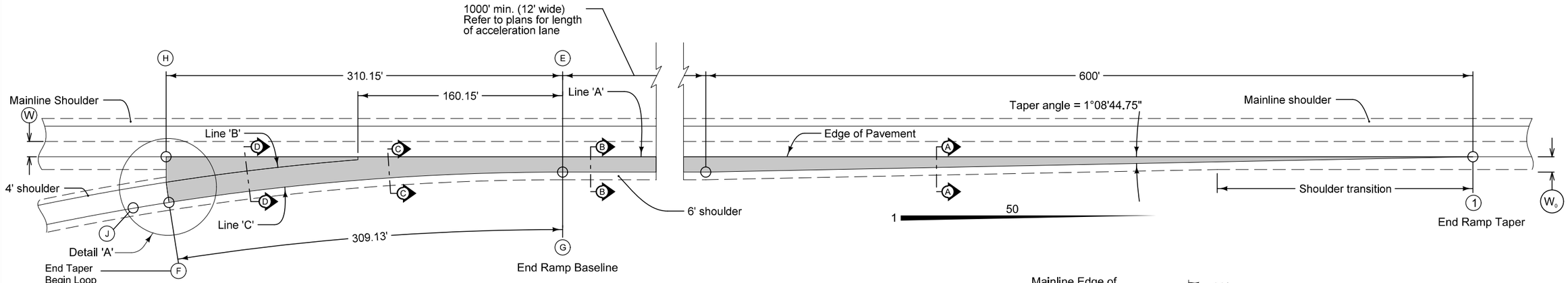
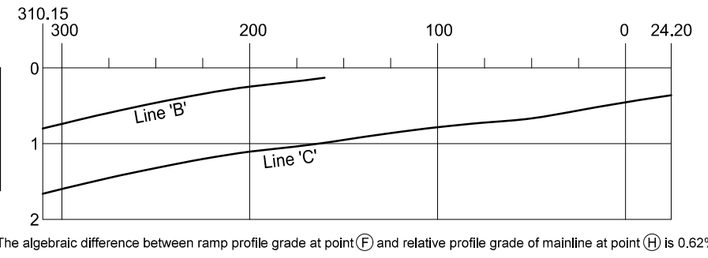
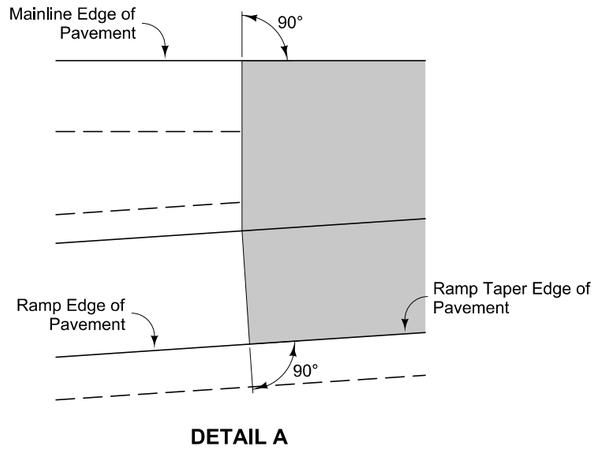




Pt. 'G' to Pt. 'J'
△ = 8° 51' 20.88"
T = 164.23'
L = 327.73'
E = 6.73'
R = 2000.00'

NOTE: The algebraic difference between ramp profile grade at point (F) and relative profile grade of mainline at point (H) is 0.62%

TABLE OF SHOULDER TRANSITION LENGTHS WITH 6' SHOULDER ON RAMP			
W_0	Shoulder Width beyond Edge of Mainline Pavement		
	8'	10'	12'
12'	NA	100'	150'



DETAIL A

(H) (E)

TABLE OF OFFSETS AND DROPS FOR 16' RAMP TAPER																		
DISTANCE FROM POINT (E) ALONG LINE 'A' (Ft.)		310.15	300	275	250	225	204	200	175	160.15	150	125	100	75	50	25	0	24.2
From Line 'A' To Line 'B'	OFFSET (Ft.)	20.00	18.45	14.84	11.56	8.60	6.30	5.95	3.61	2.37								
	SLOPE (%)	← Constant 4.0% Slope →						4.11	4.92	5.40								
	DROP (Ft.)	0.80	0.74	0.59	0.46	0.34	0.25	0.24	0.18	0.13								
From Line 'B' To Line 'C'	OFFSET (Ft.)	← Constant 16' Offset →																
	SLOPE (%)	← Constant 5.4% Slope →																
	DROP (Ft.)	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86								
From Line 'A' To Line 'C'	OFFSET (Ft.)										17.63	15.91	14.50	13.41	12.63	12.16	12.00	12.00
	SLOPE (%)										5.40	5.40	5.40	5.40	5.40	4.59	3.78	3.00
	DROP (Ft.)	1.66	1.60	1.45	1.32	1.20	1.11	1.10	1.04	0.99	0.95	0.86	0.78	0.72	0.68	0.56	0.45	0.36
DISTANCE FROM POINT (G) ALONG LINE 'C' (Ft.)		309.13	298.73	273.67	248.66	223.68	202.73	198.74	173.83	159.04	150.14	125.08	100.04	75.02	50.01	25.00	0.00	

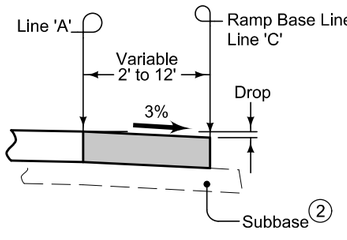
(F) (G)

Construct ramp exit pavement the same thickness as mainline pavement.

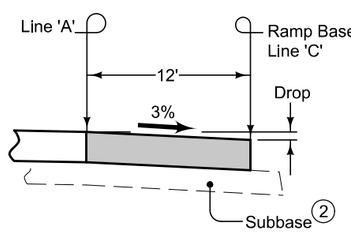
For joint detail, see PV-101.

(1) For header construction detail at the end of taper, see Typical 7101 or Typical 7102.

(2) Construct subbase for ramp exit pavement the same thickness as mainline subbase.



SECTION A-A



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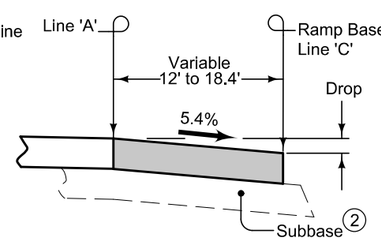
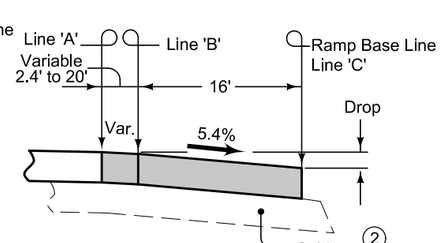


SECTION C-C



SECTION D-D

REVISION	
3	04-20-21

ROAD DESIGN DETAIL

533-02

SHEET 1 of 2

Added Point J and Ramp Profile note.

PARALLEL ACCELERATION TAPER FOR 16' RAMP (60 MPH DESIGN SPEED)

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER U.1

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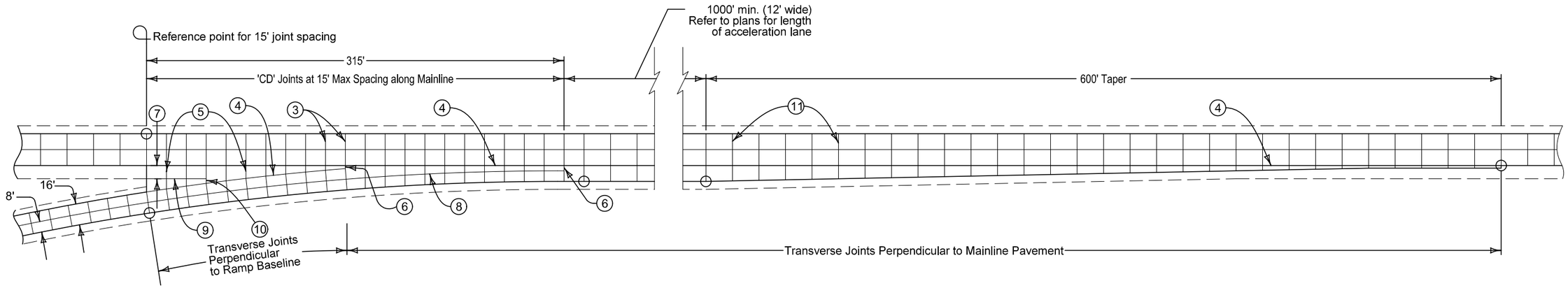

③ 'CD ' Joints at 15' spacing.
④ 'BT-2' or 'KT-2' Joint.
⑤ 'C' Joint.
⑥ 'B' Joint. 2' minimum, 4' maximum.
⑦ 10' minimum or equal to mainline shoulder width.
⑧ 'L-2' Joint.
⑨ 'C' Joint parallel to mainline pavement.
⑩ 'B' or 'C' Joint. 2' minimum, 4' maximum.
⑪ 'CD ' Joints at 17' spacing.

REVISION	
3	04-20-21

ROAD DESIGN DETAIL

533-02

SHEET 2 of 2

Added Point J and Ramp Profile note.

PARALLEL ACCELERATION TAPER FOR 16' RAMP (60 MPH DESIGN SPEED)

FILE NO.	ENGLISH	DESIGN TEAM **Snyder & Associates**	**Iowa** COUNTY	PROJECT NUMBER **IMX-080-6(536)208--02-48**	SHEET NUMBER **U.2**	

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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

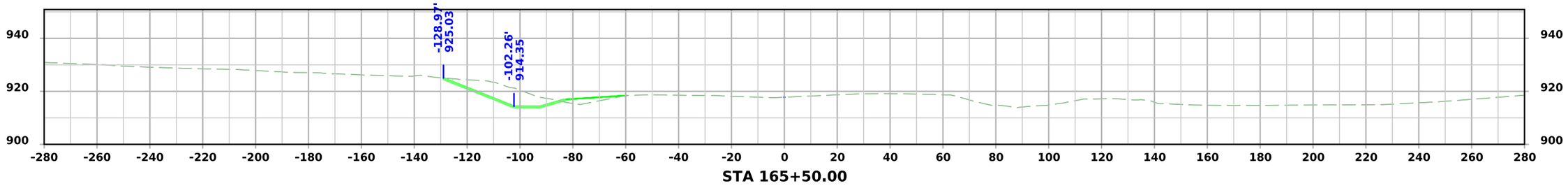
NOTES:

Text

CROSS SECTIONS
LEGEND AND INFORMATION SHEET

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

I-80



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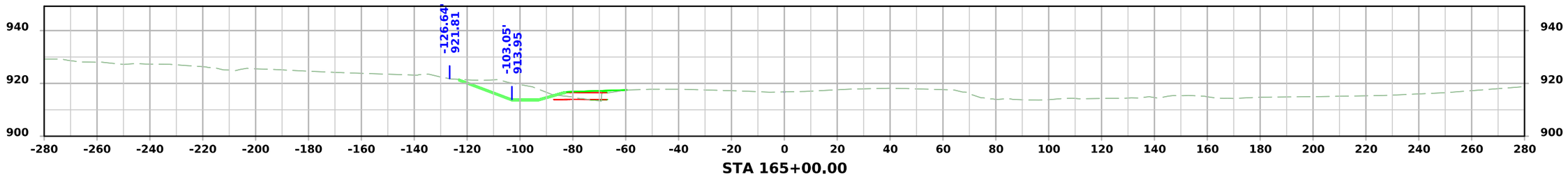

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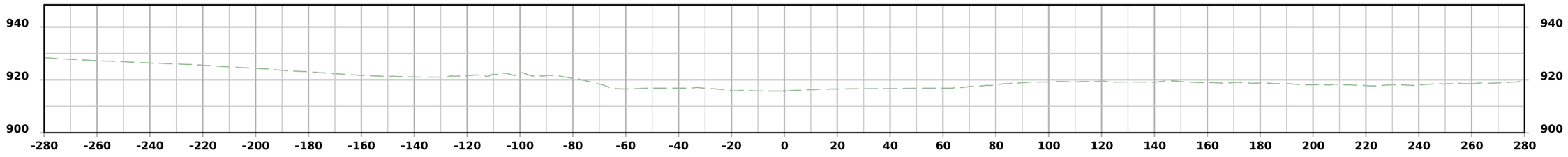

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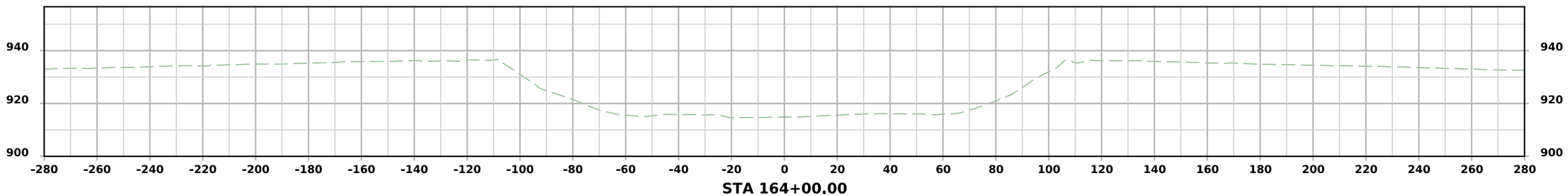

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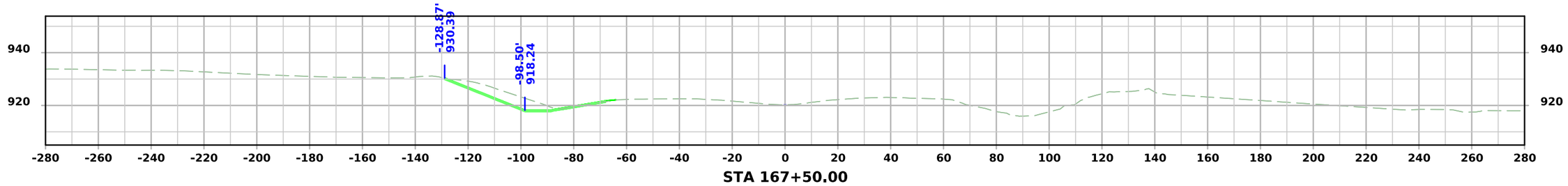

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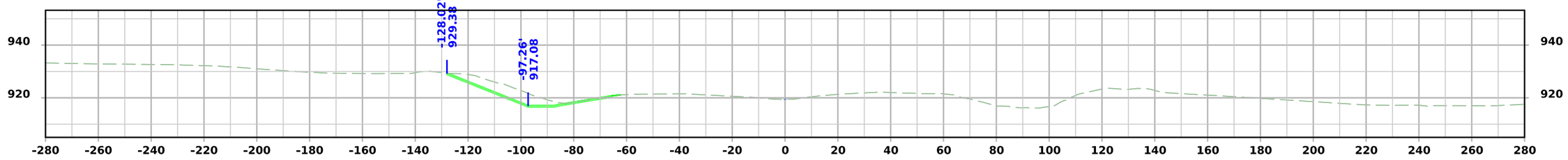

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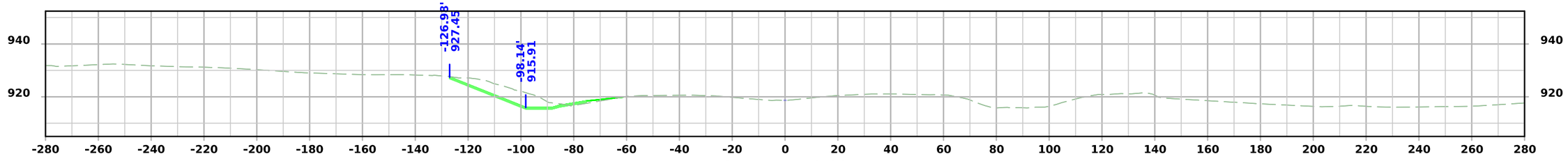

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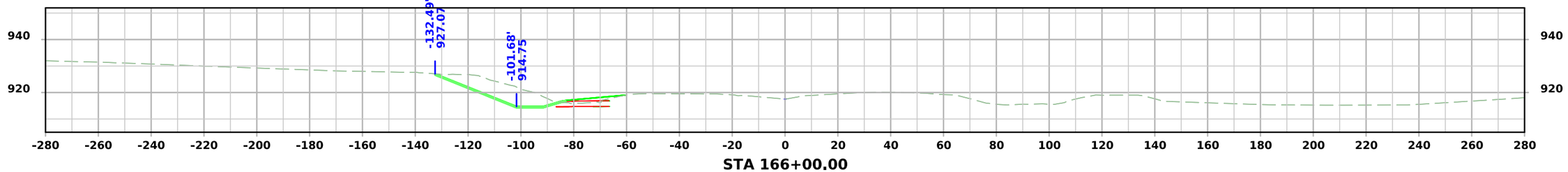

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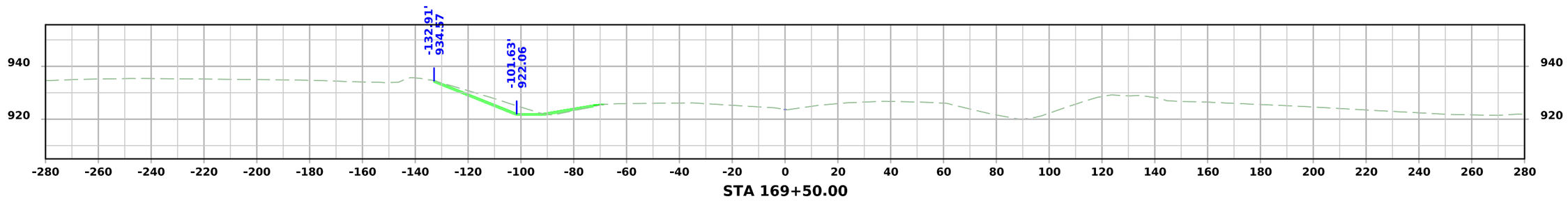

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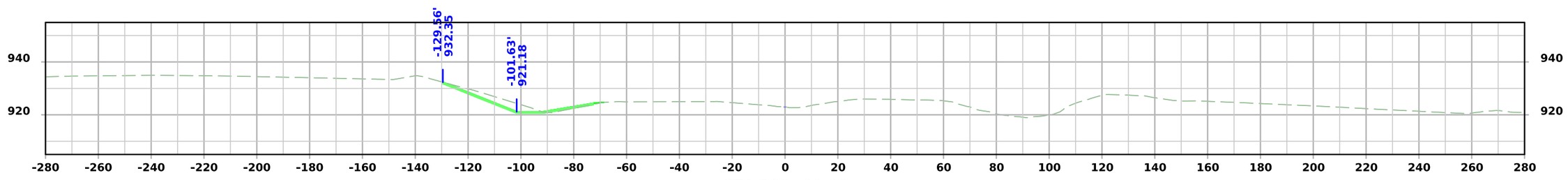

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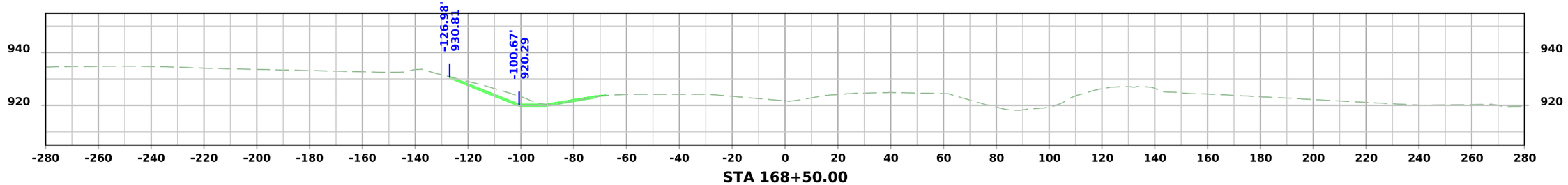

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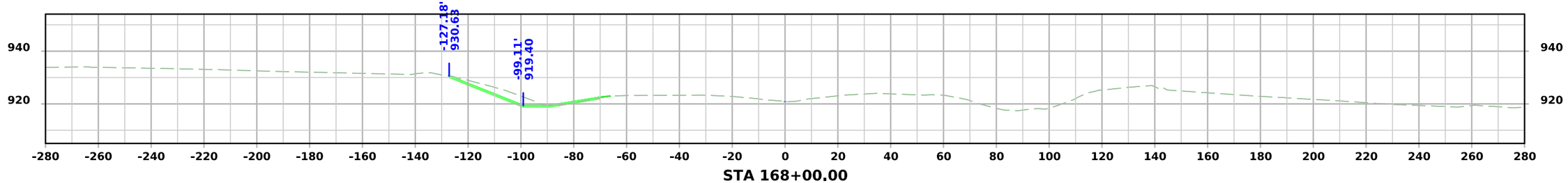

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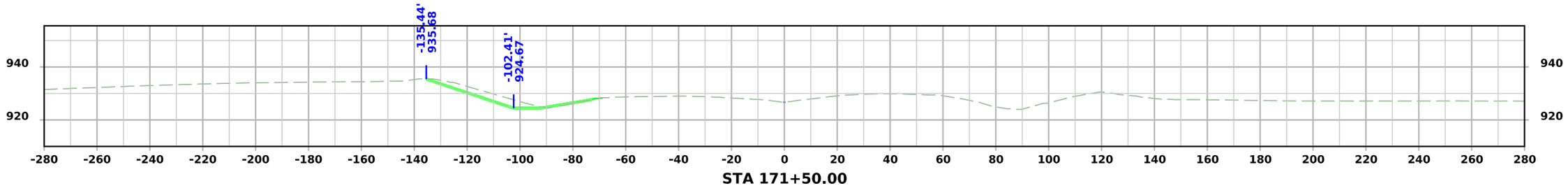

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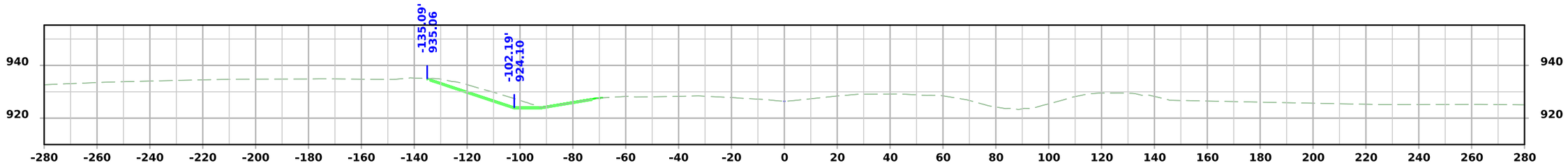

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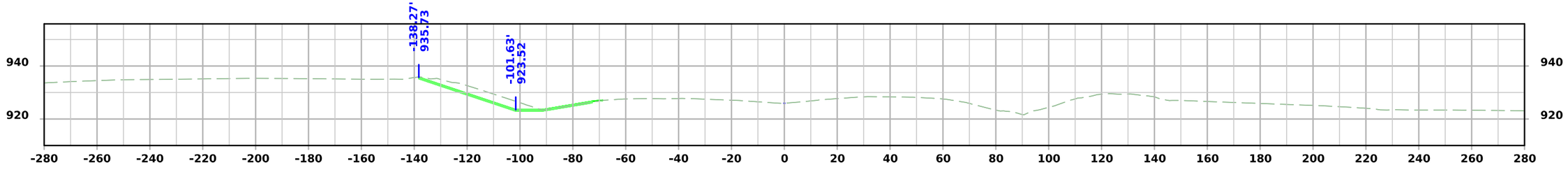

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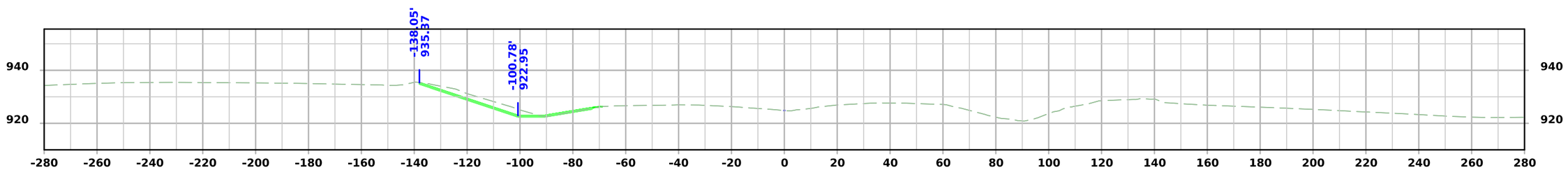

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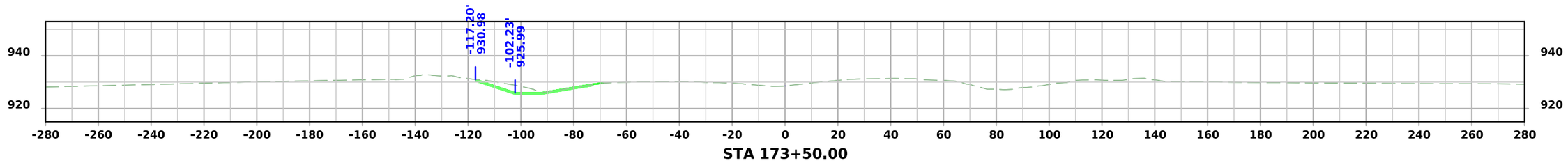

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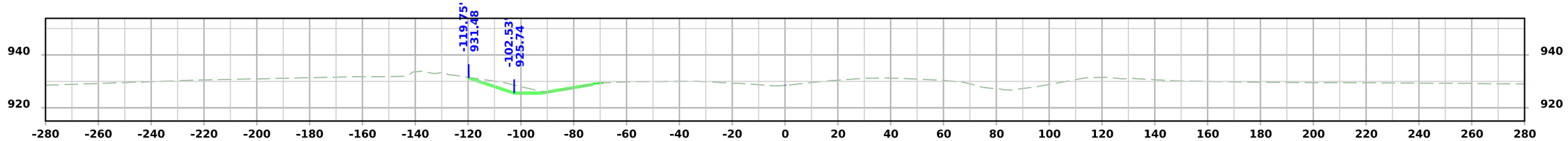

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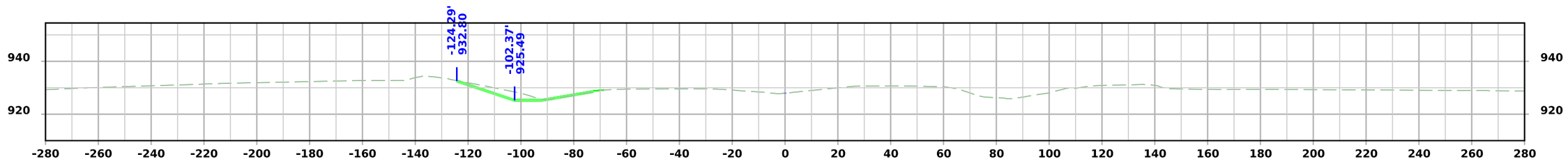

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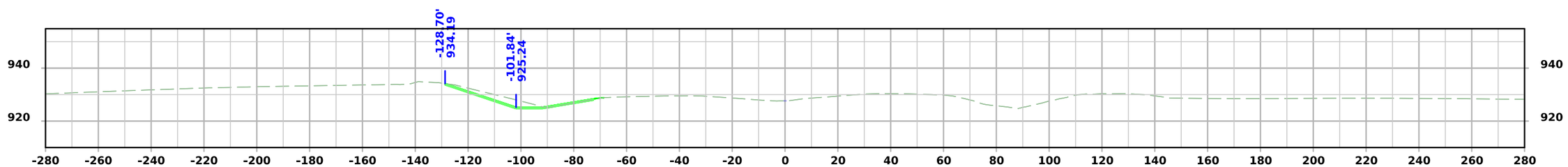

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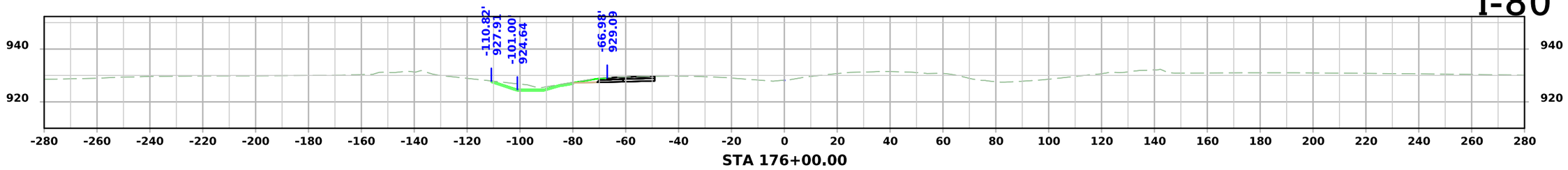

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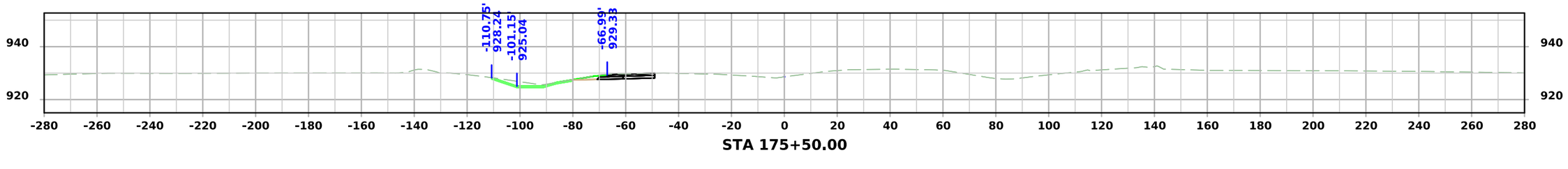

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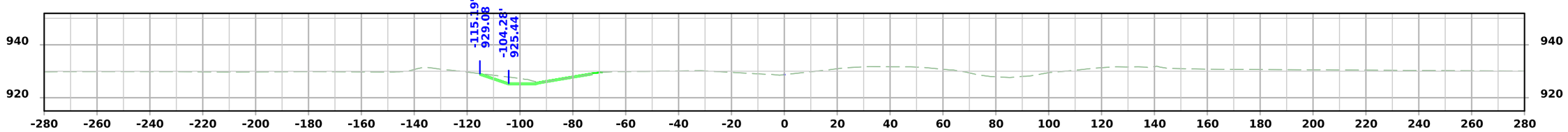

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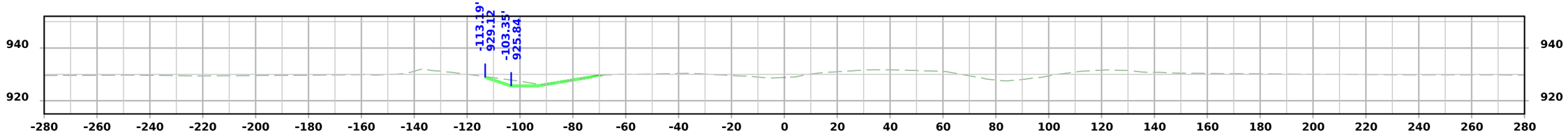

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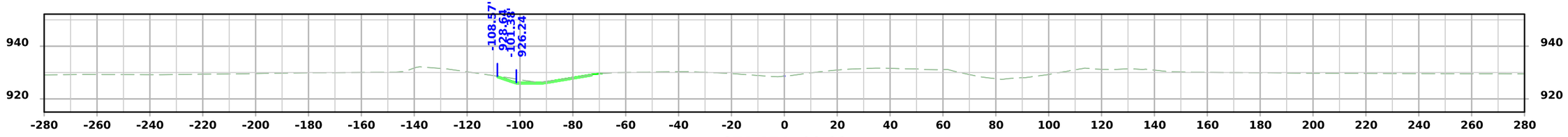

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.7

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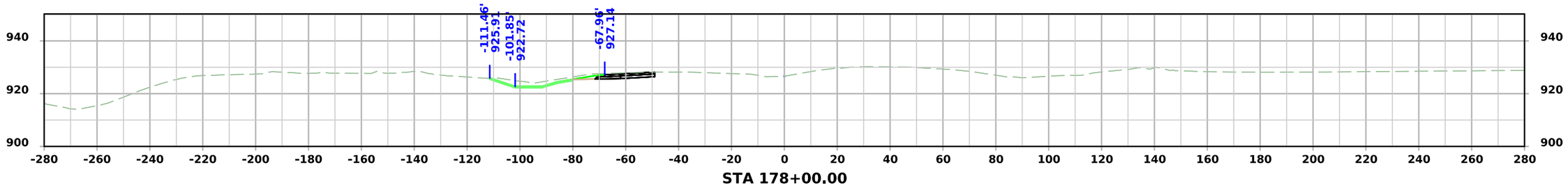
I-80



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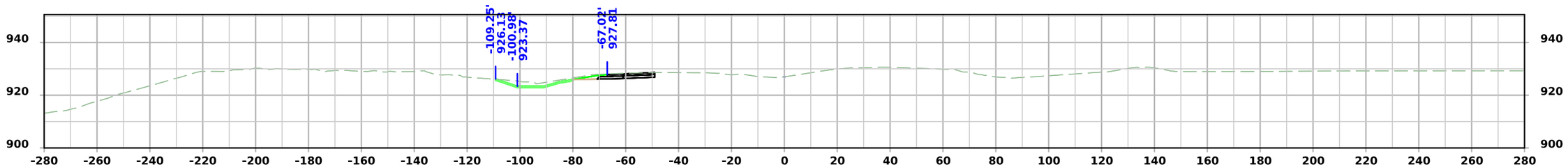

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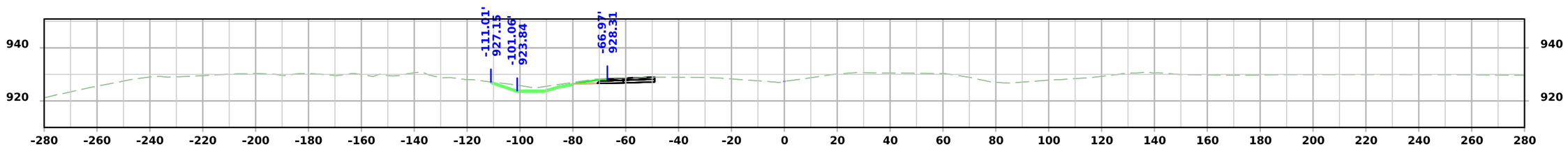

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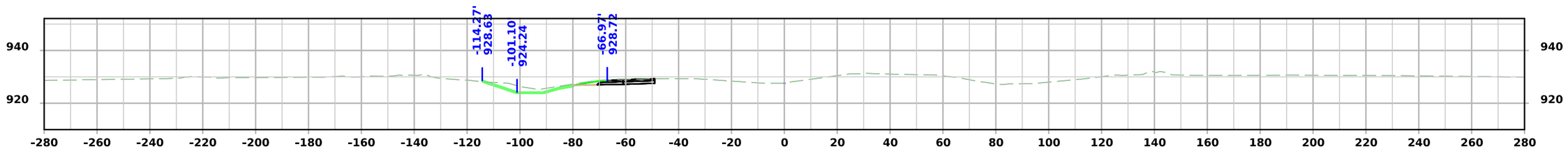

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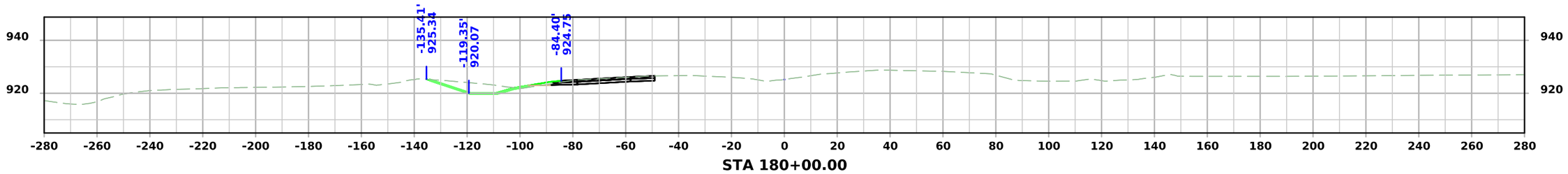

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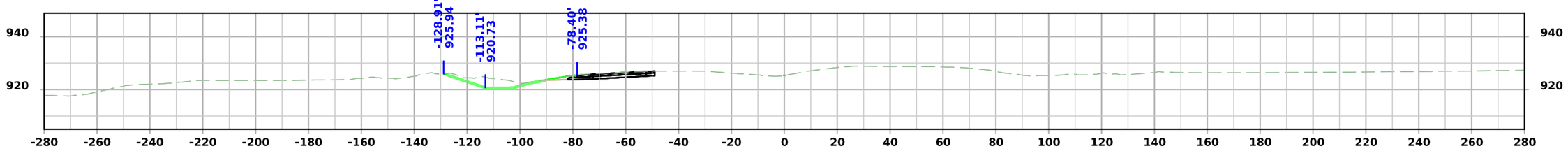

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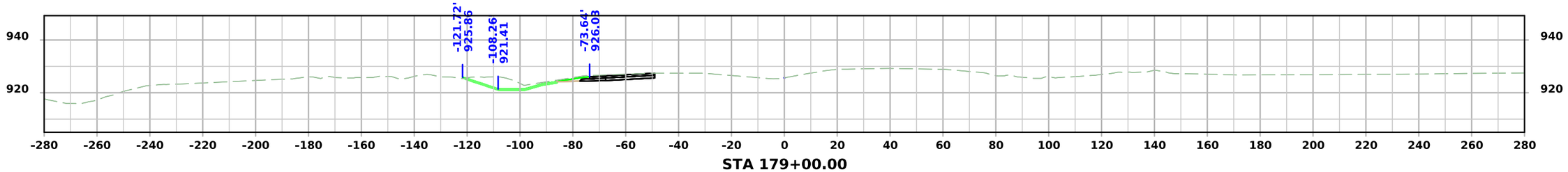

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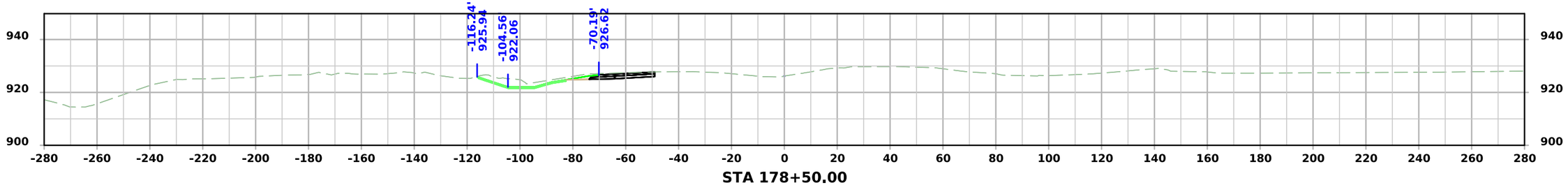
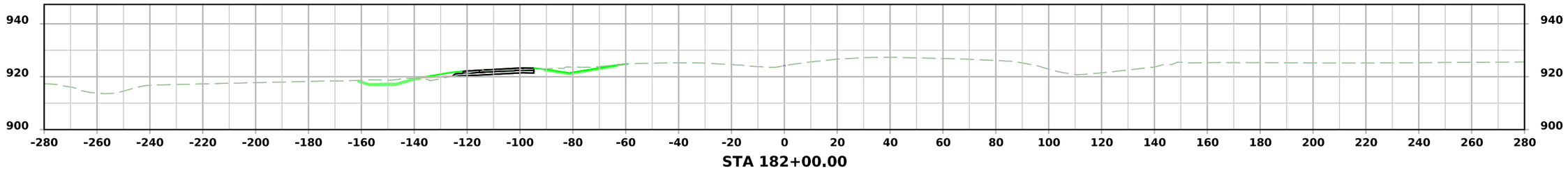


STA 178+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.9	

12:02:53 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

I-80



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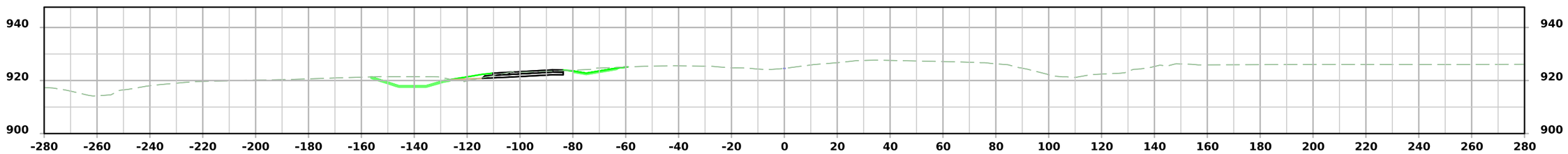

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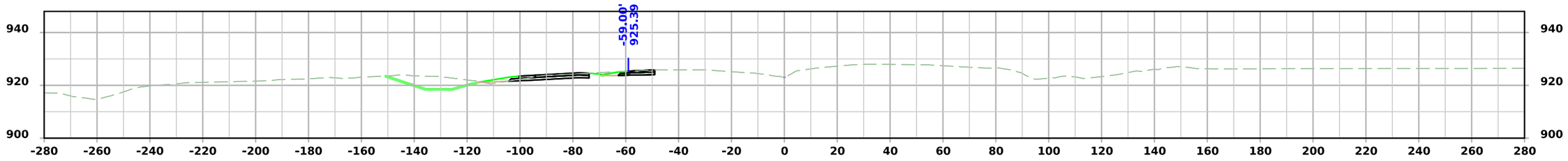

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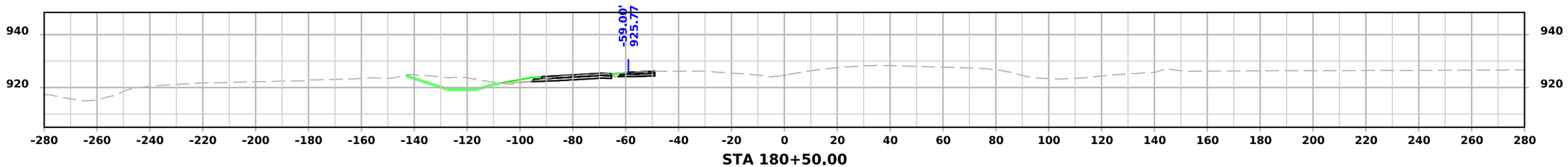
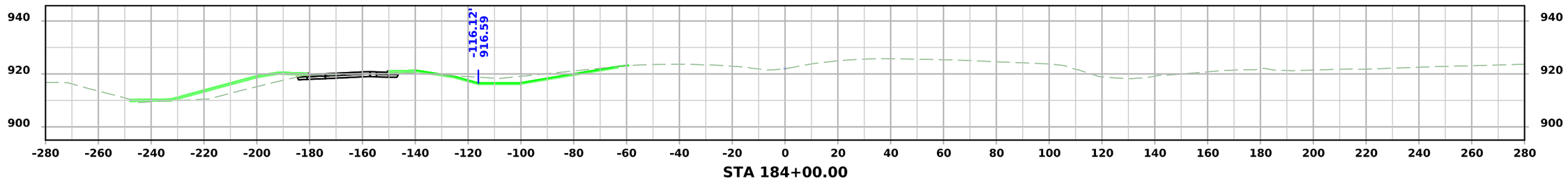


STA 180+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.10

12:02:54 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

I-80



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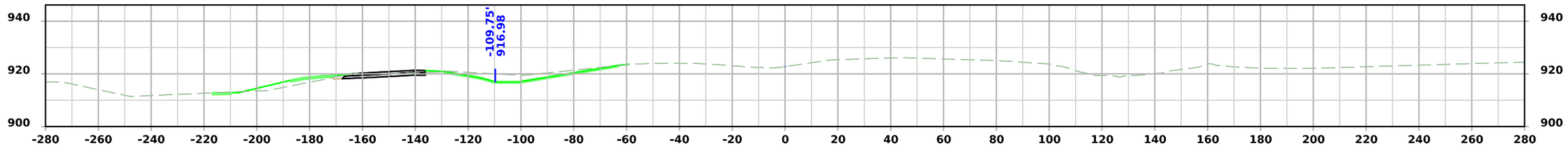

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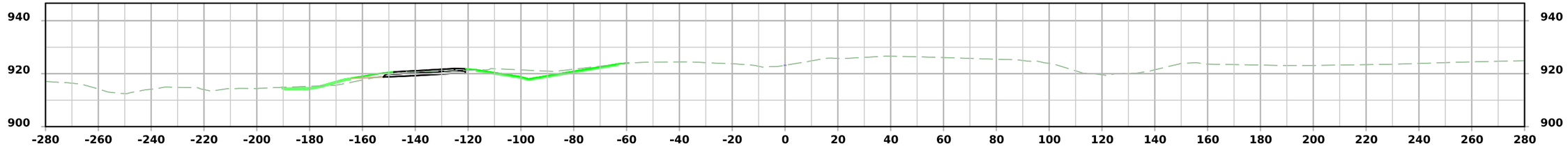

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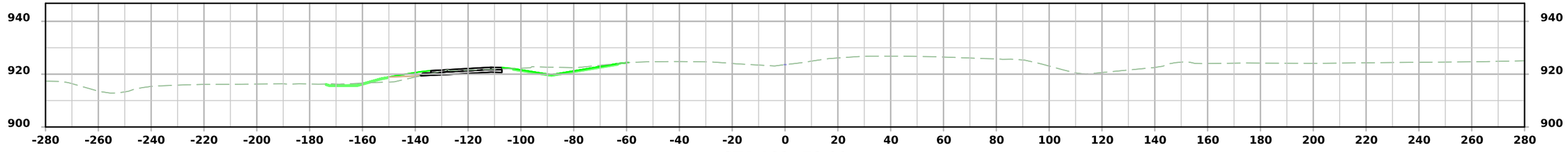
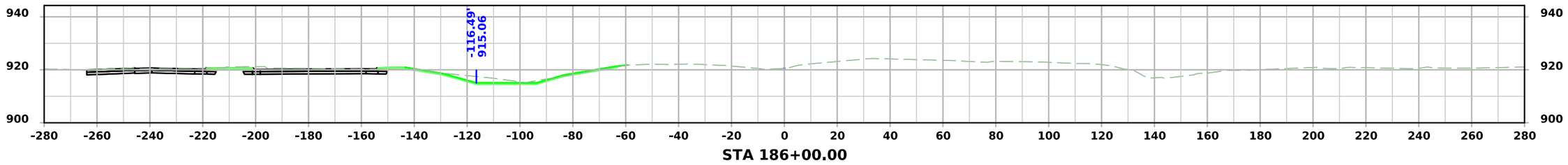


STA 182+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.11

12:02:55 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

I-80



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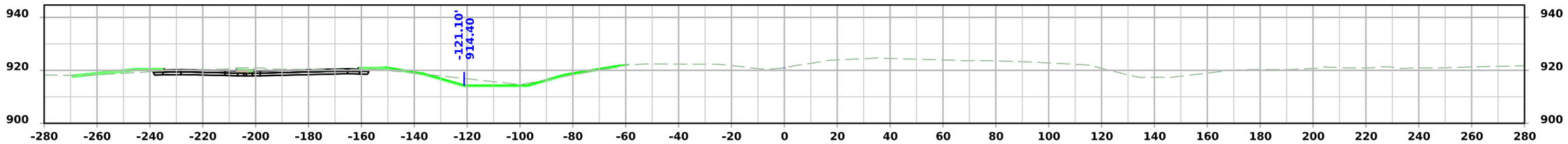

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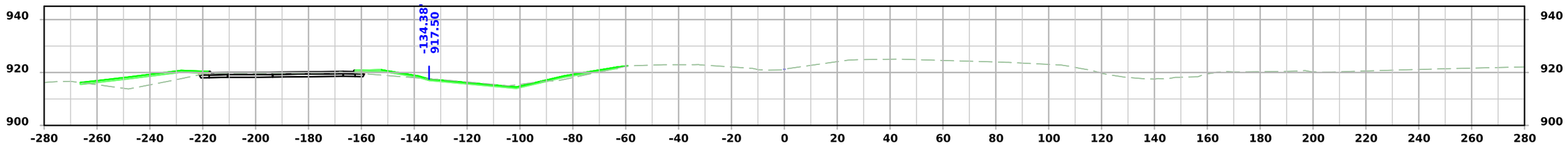

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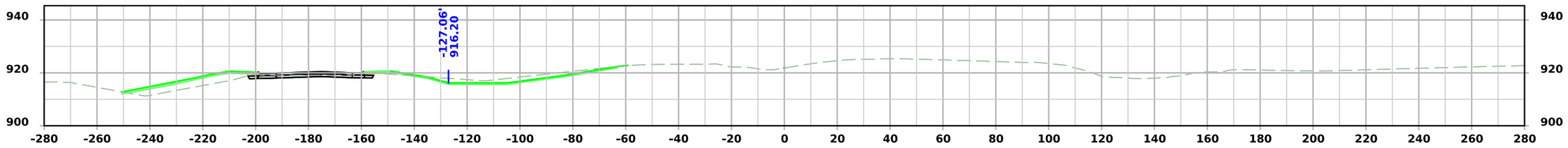

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.12

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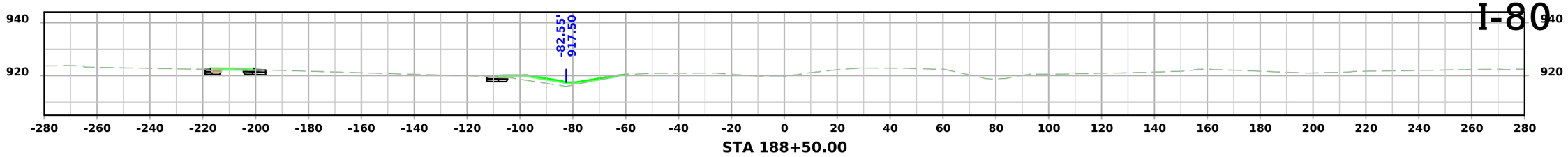
I-80



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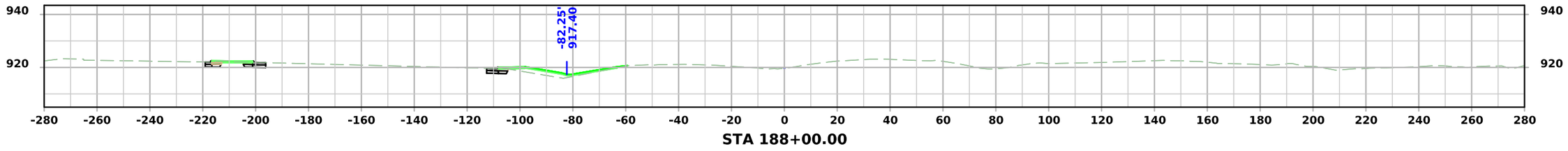

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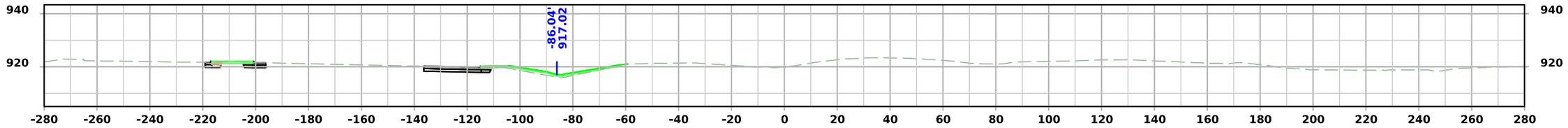

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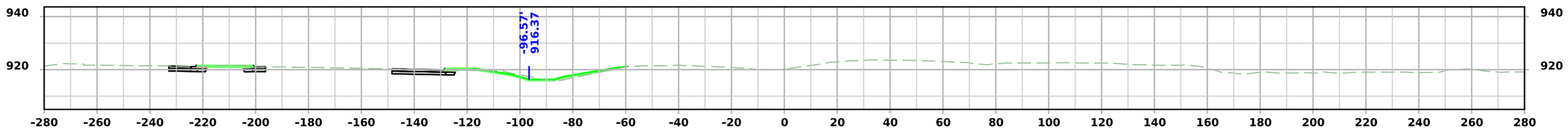

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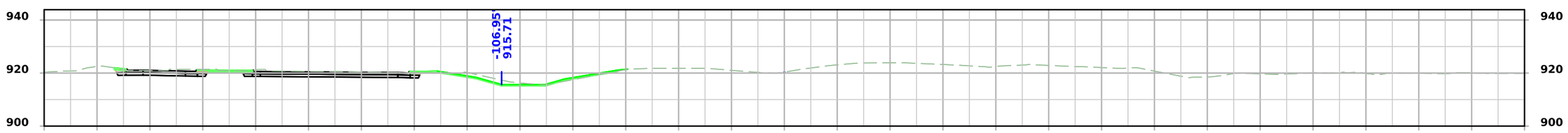

STA 186+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.13

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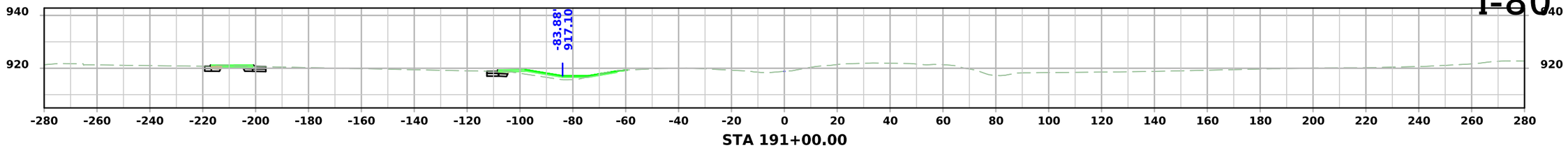
I-80



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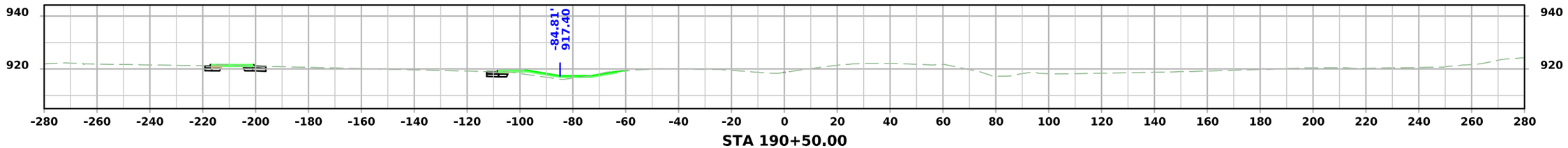

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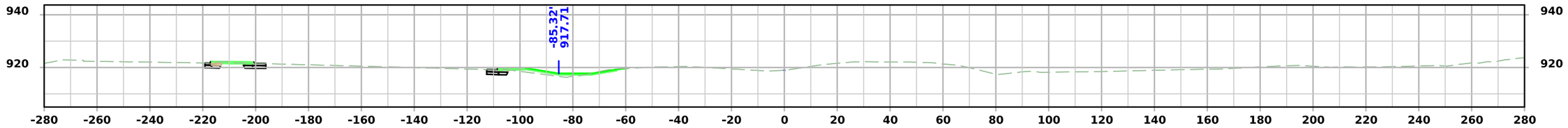

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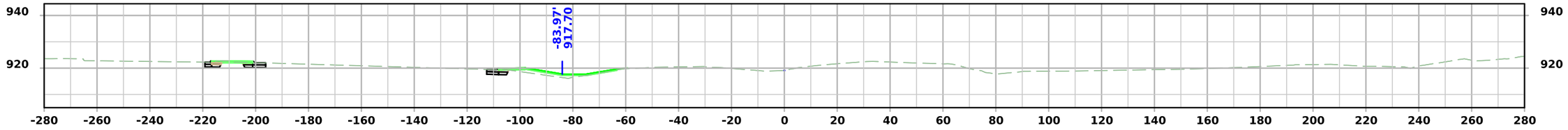

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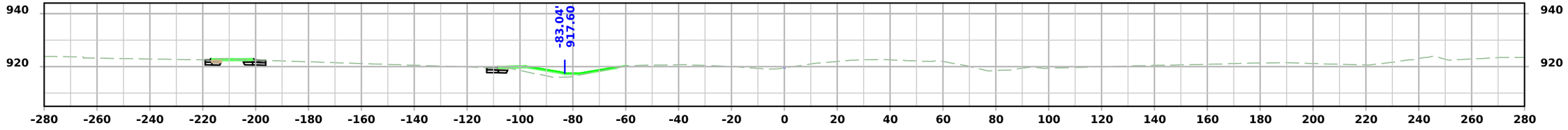

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.14	

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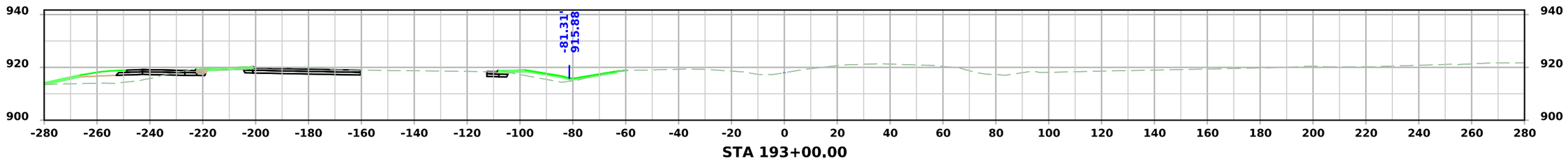
I-80



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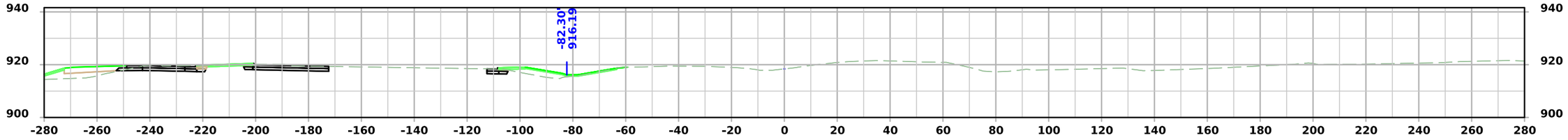

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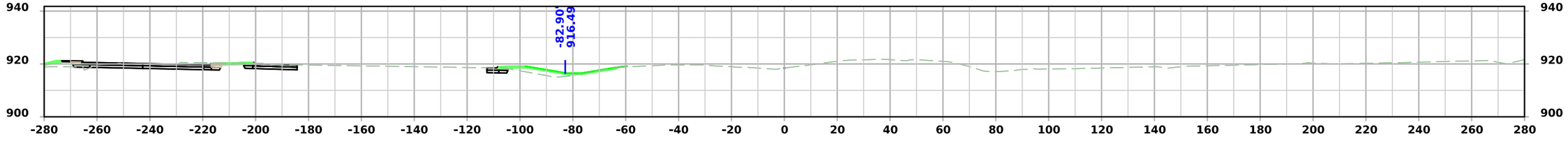

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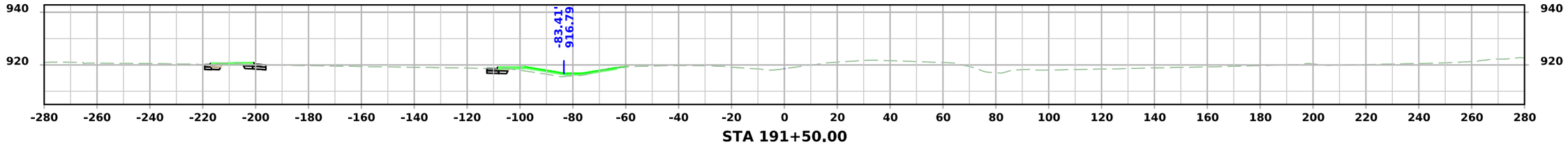

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.15

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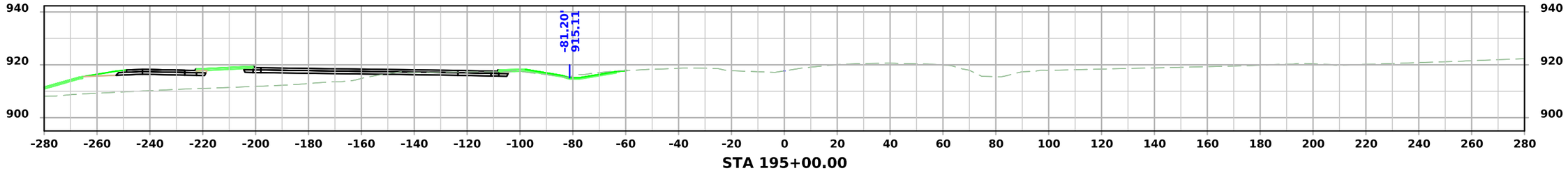
I-80



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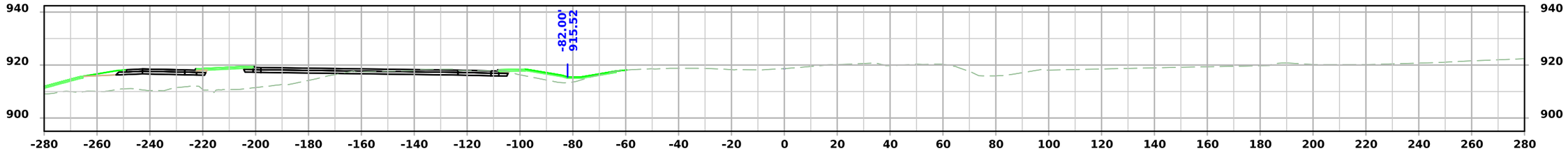

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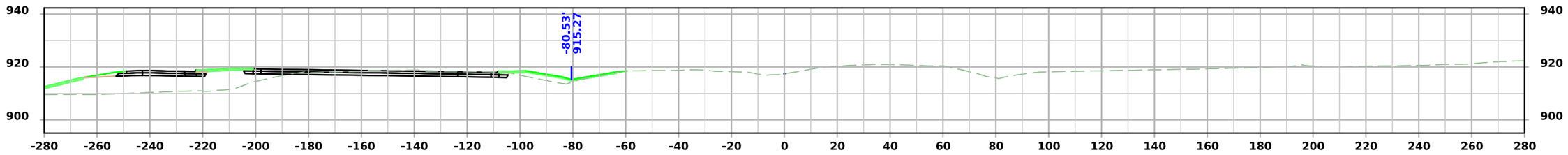

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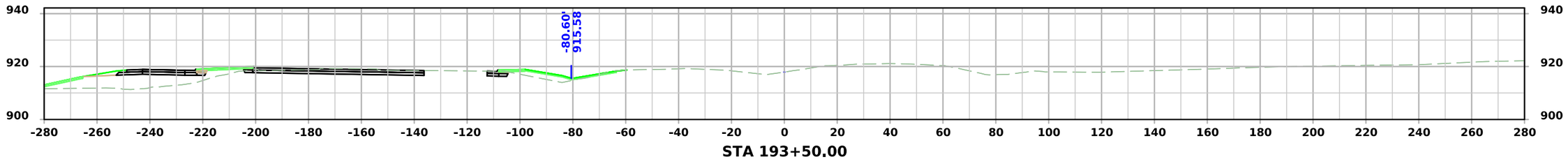

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.16

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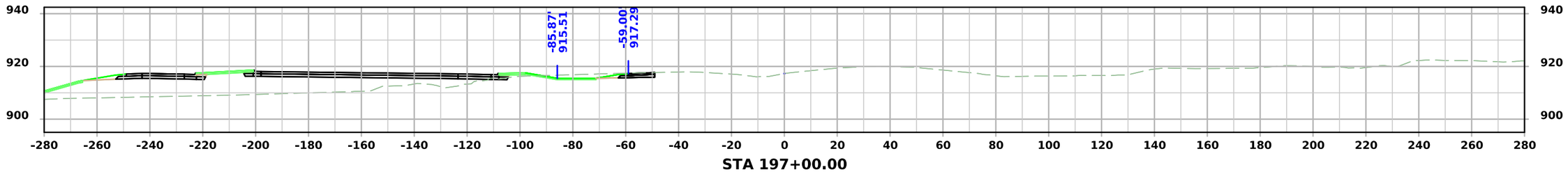
I-80



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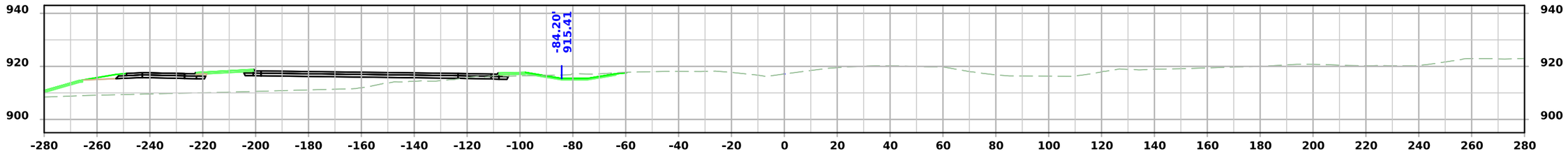

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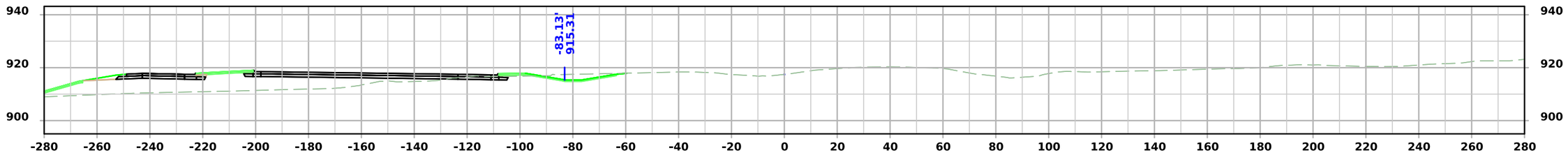

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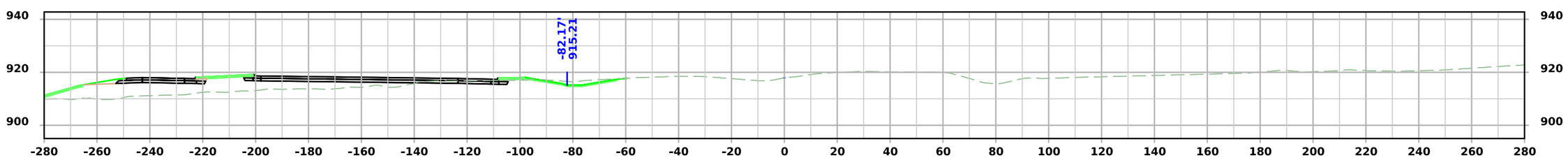

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.17

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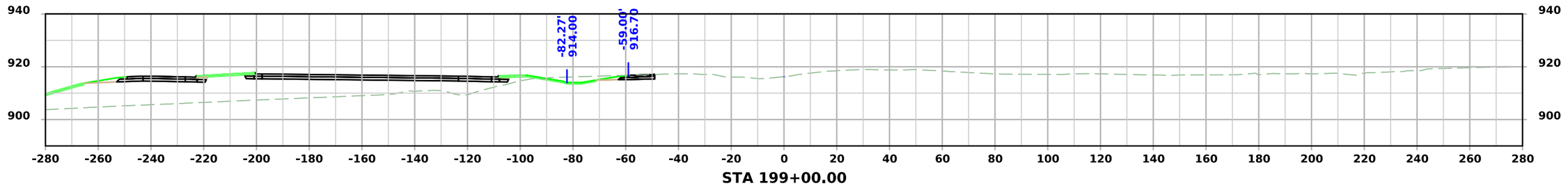
I-80



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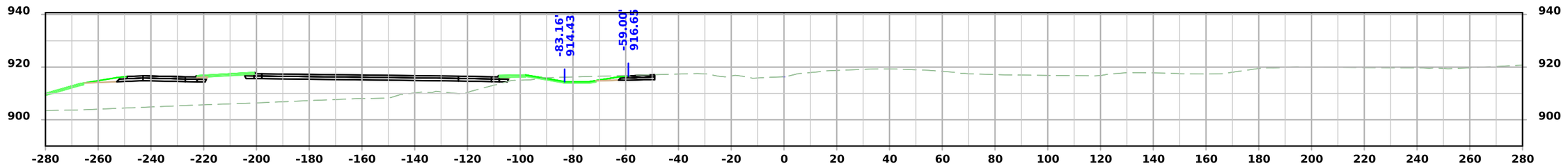

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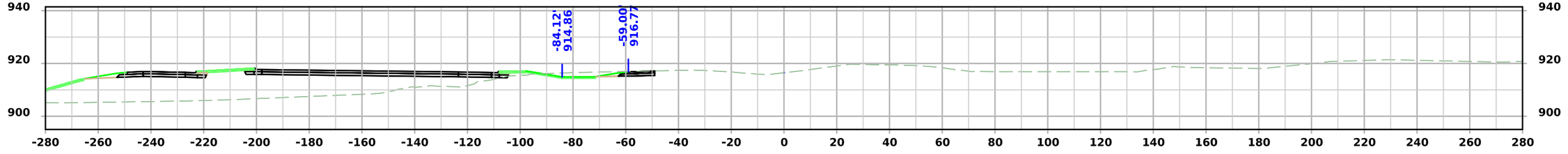

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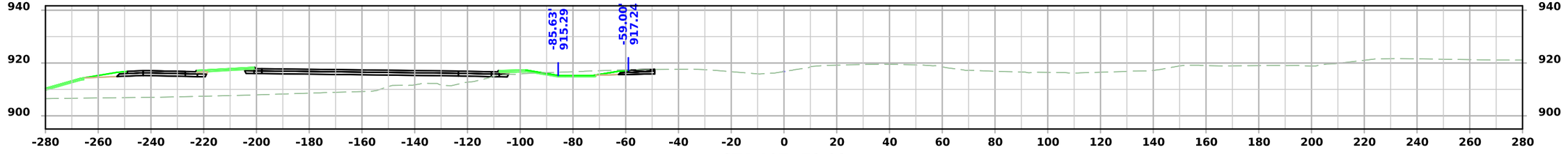

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.18

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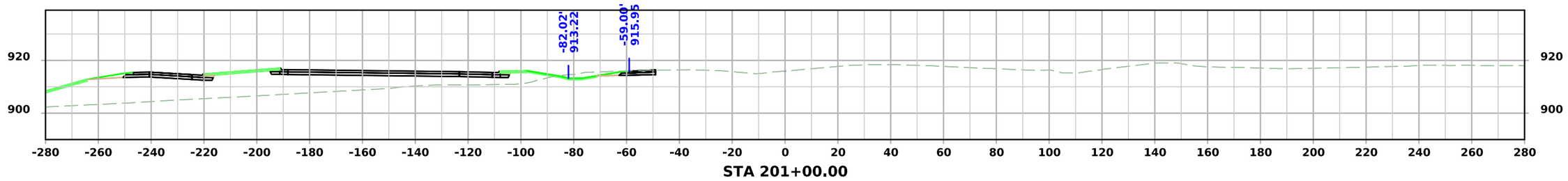
I-80



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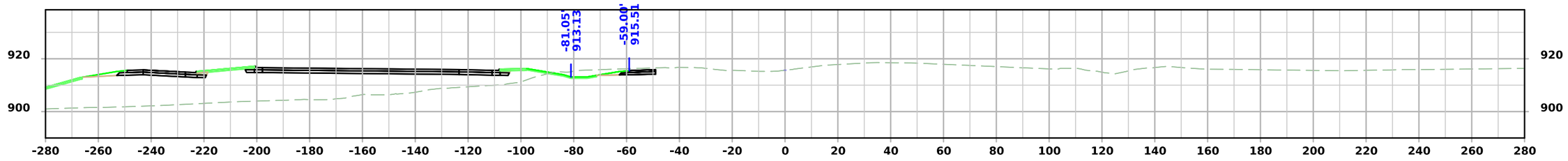

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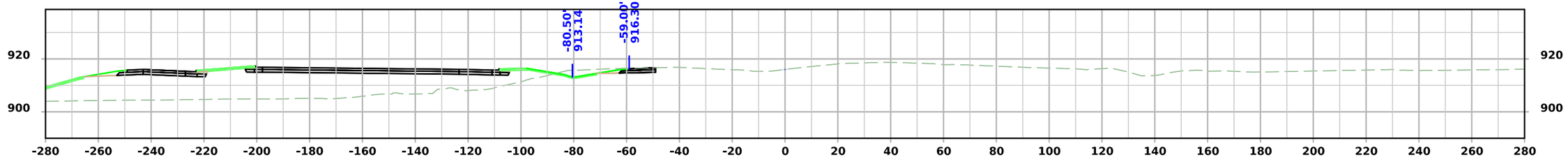

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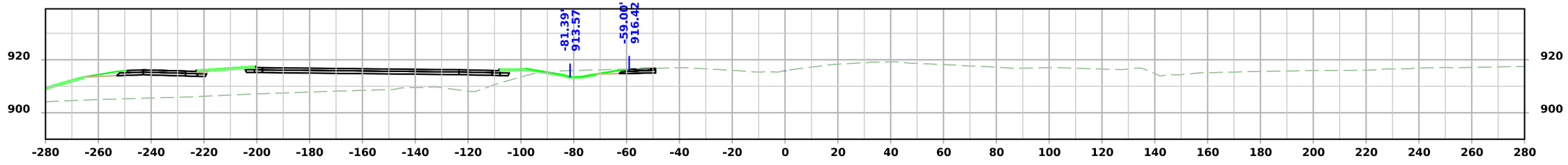

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.19

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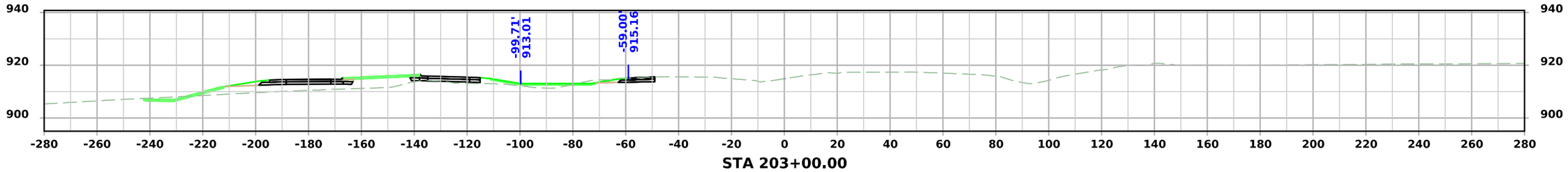
I-80



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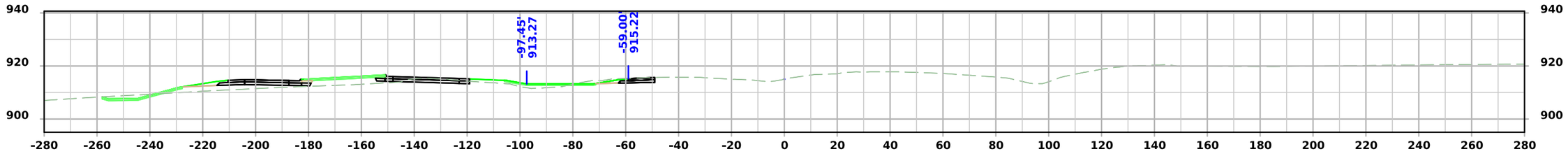

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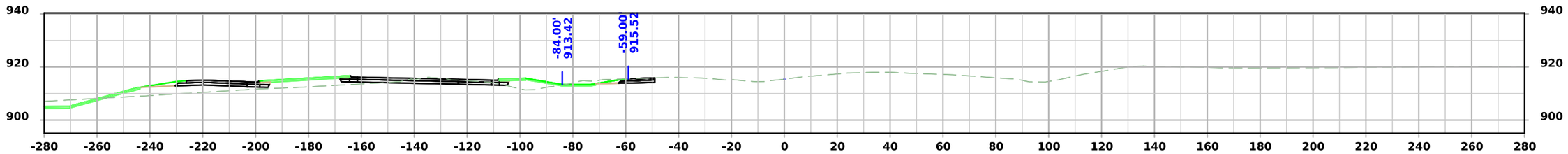
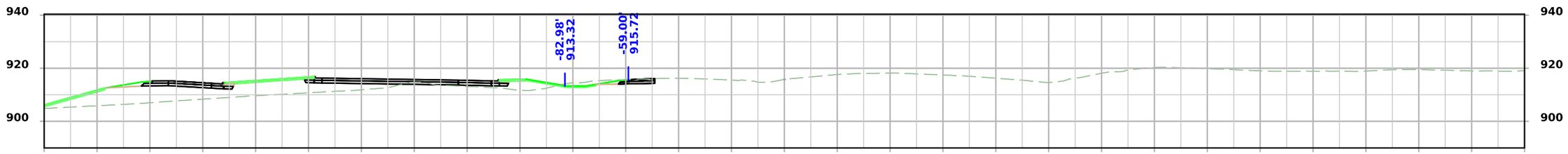


STA 202+00.00

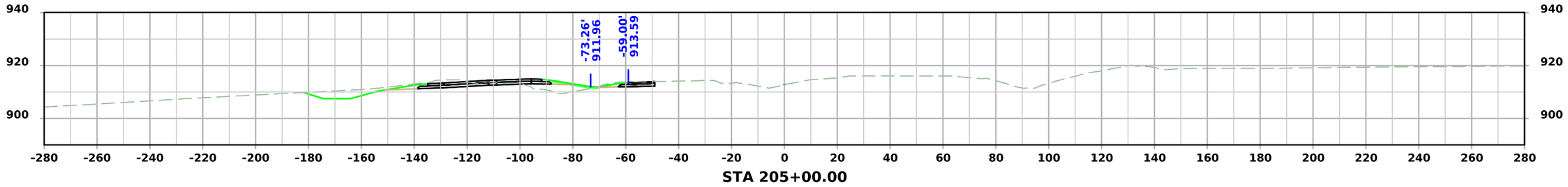


STA 201+50.00

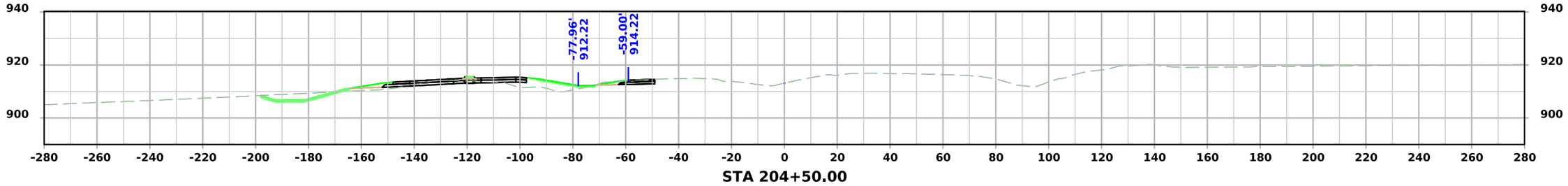
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.20

12:03:07 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

I-80



STA 205+00.00



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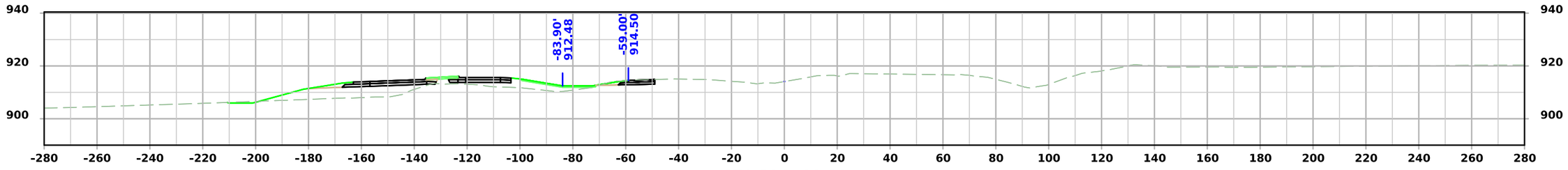

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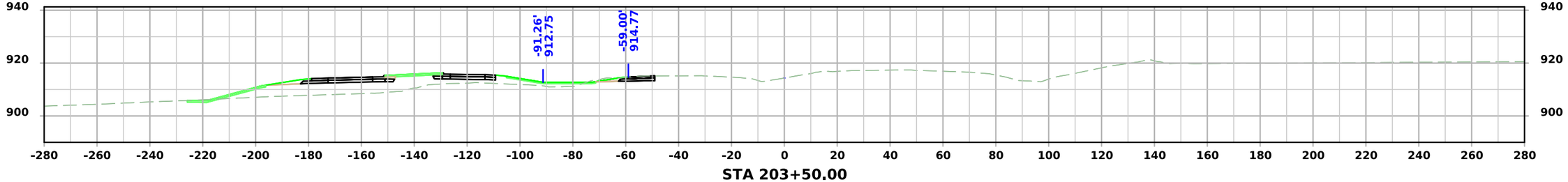
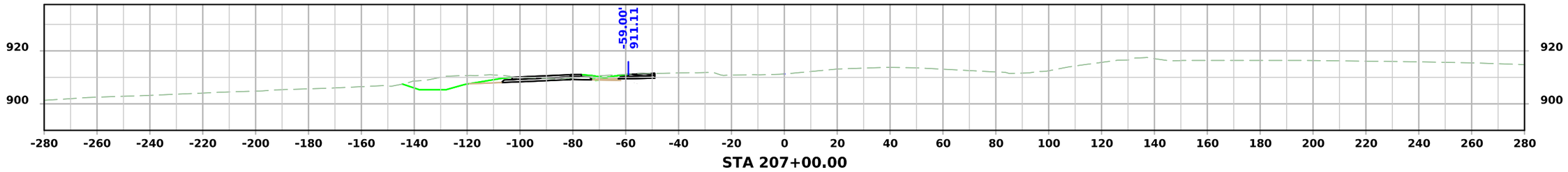


STA 203+50.00

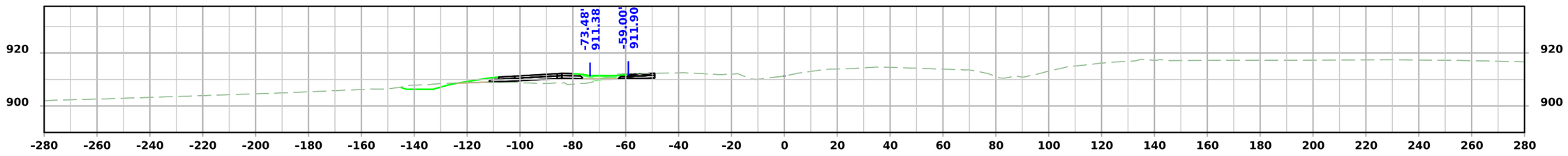
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.21

12:03:08 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

I-80



STA 207+00.00



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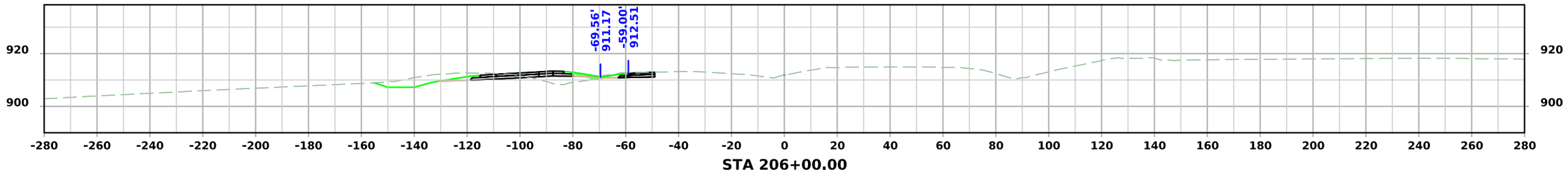
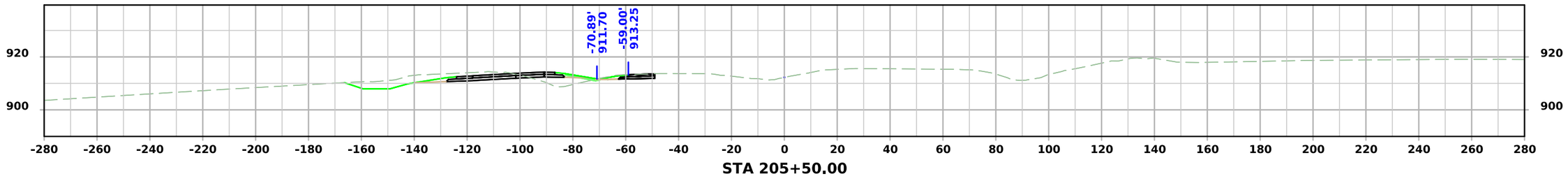


STA 206+00.00

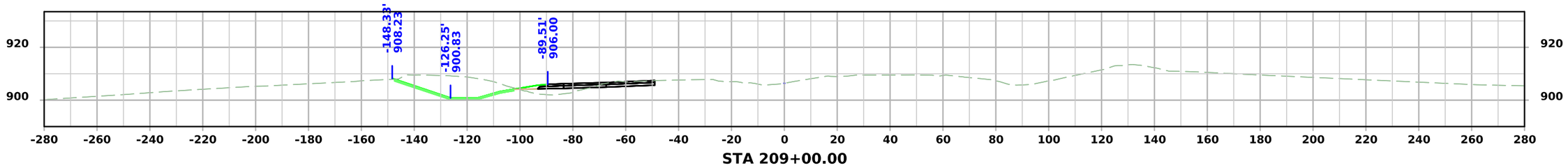


STA 205+50.00

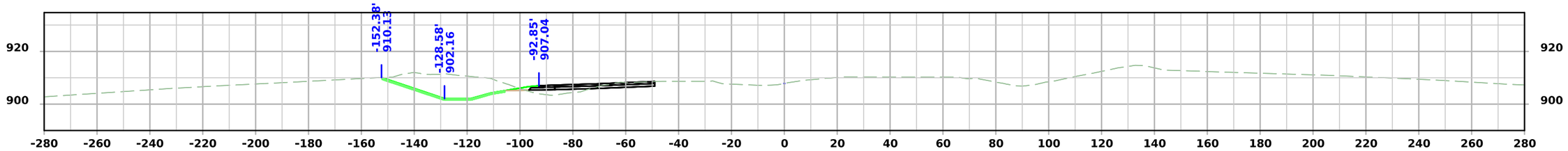
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.22

12:03:09 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

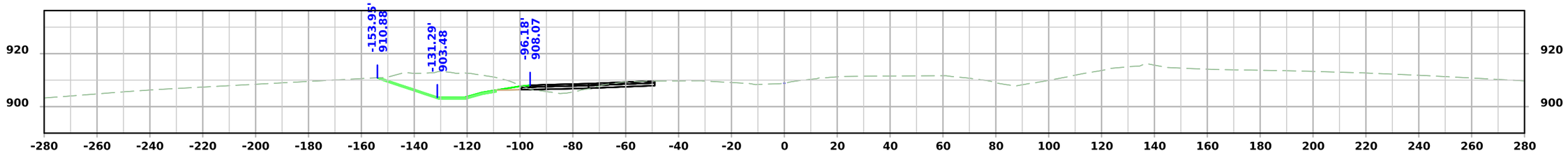
I-80



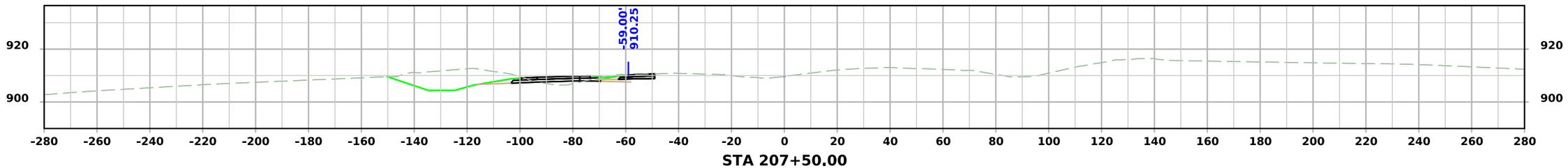
STA 209+00.00



STA 208+50.00



STA 208+00.00

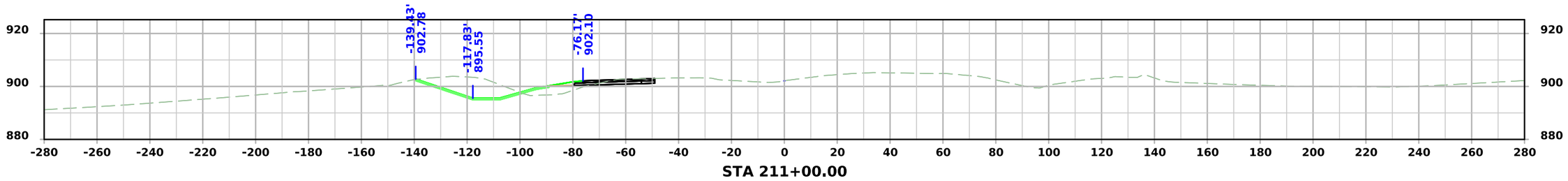


STA 207+50.00

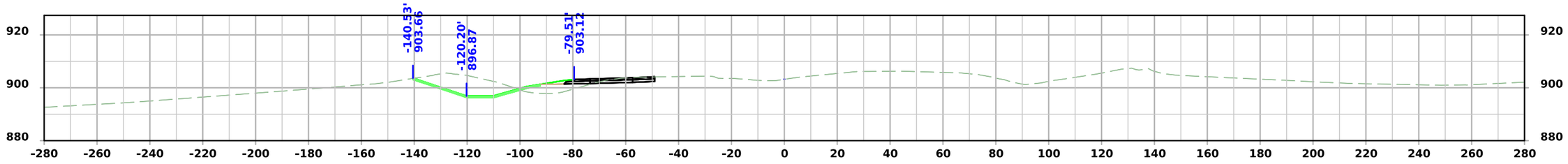
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.23

12:03:10 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

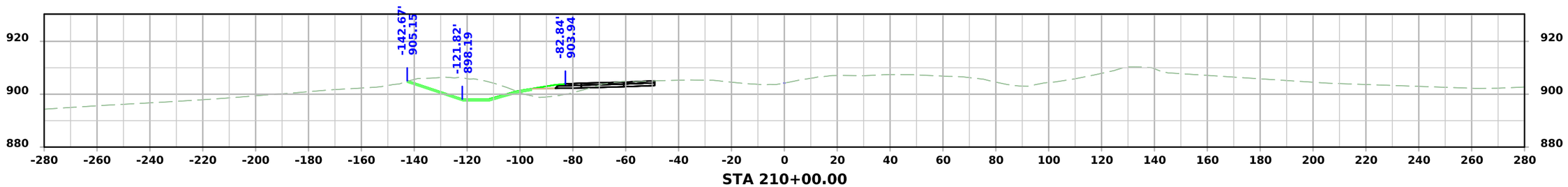
I-80



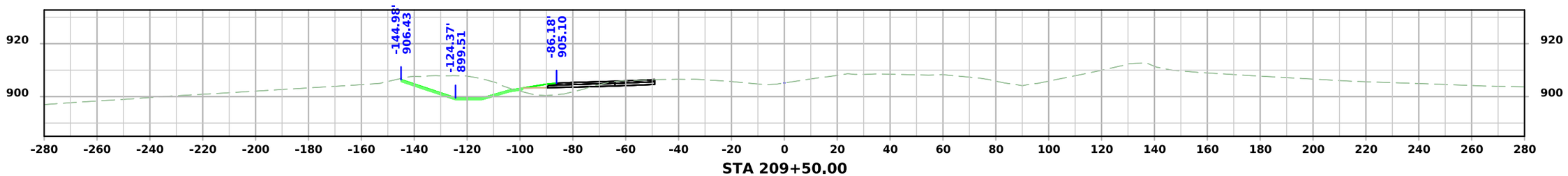
STA 211+00.00



STA 210+50.00



STA 210+00.00



STA 209+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.24

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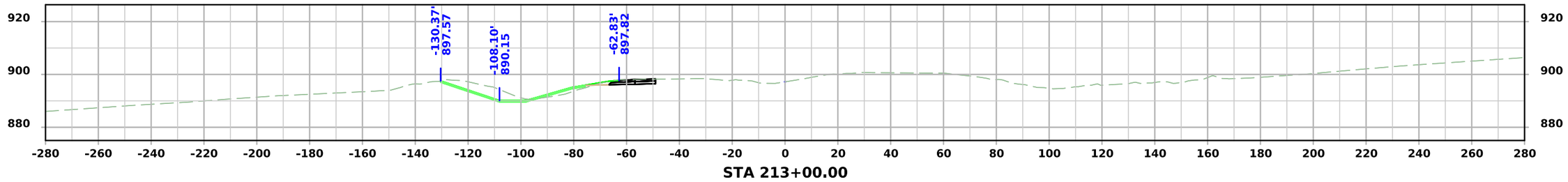
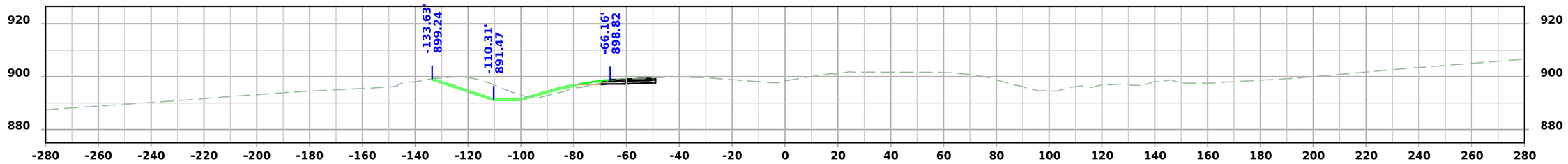
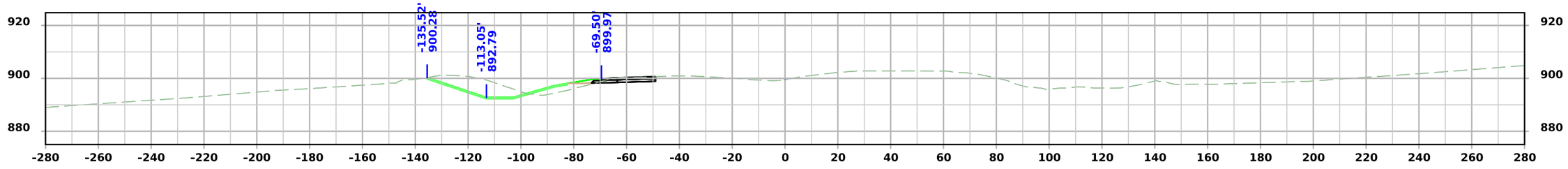
I-80



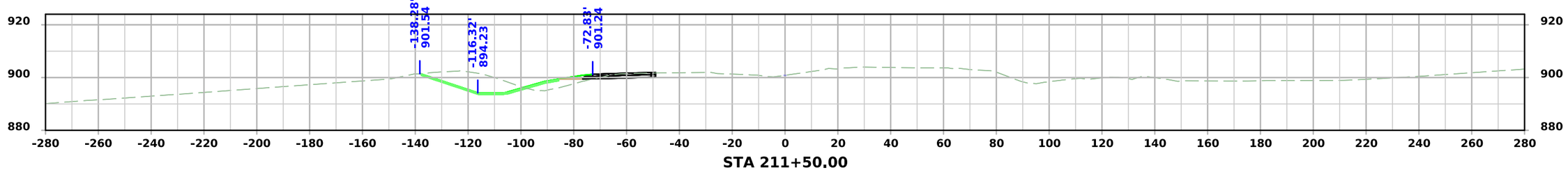
STA 213+00.00



STA 212+50.00



STA 212+00.00



STA 211+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.25

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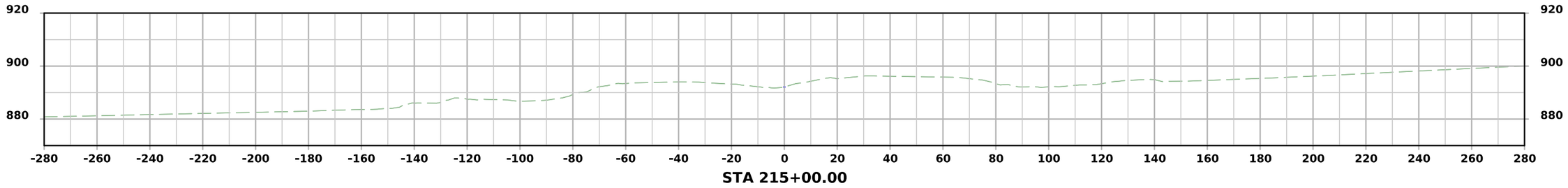
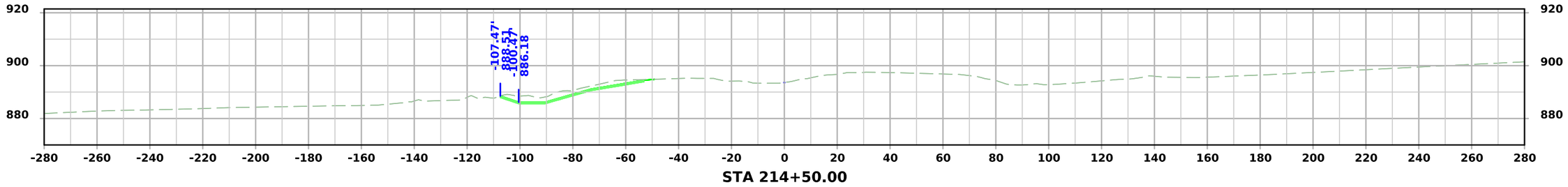
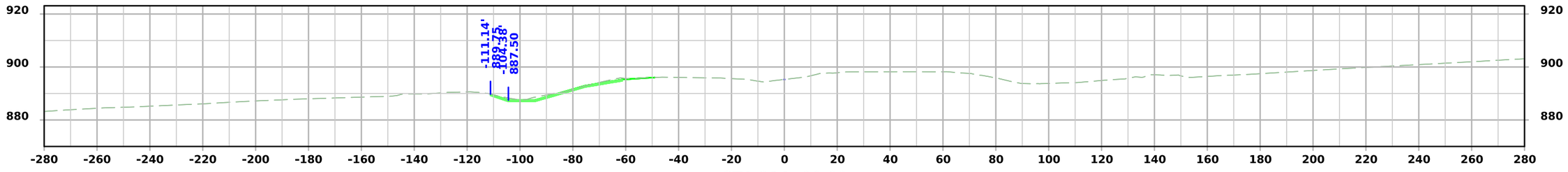
I-80



STA 215+00.00



STA 214+50.00



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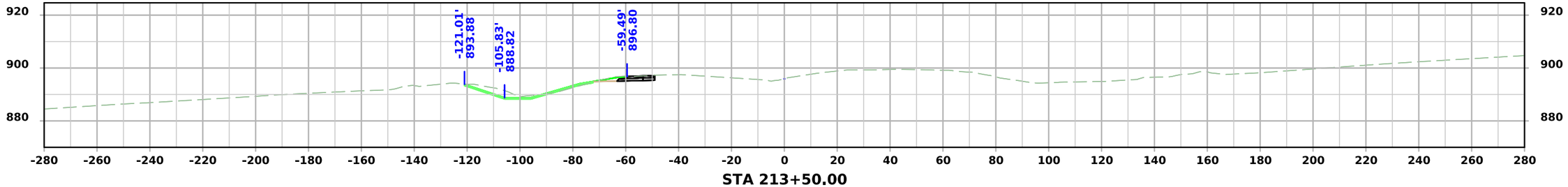
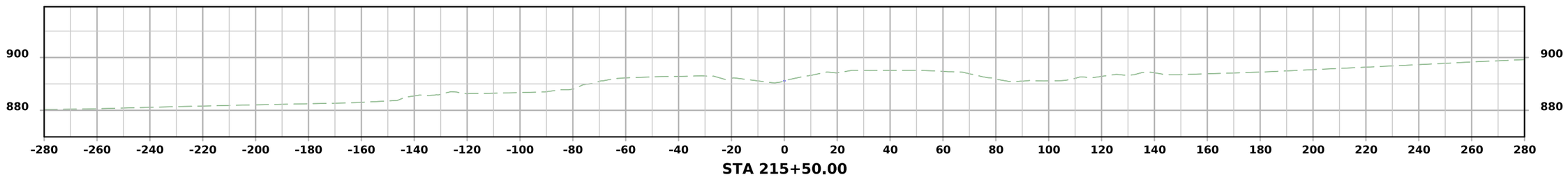


STA 213+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.26

12:03:13 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

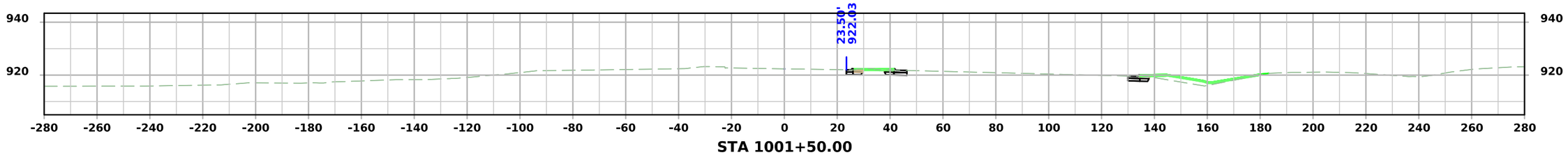


STA 215+50.00

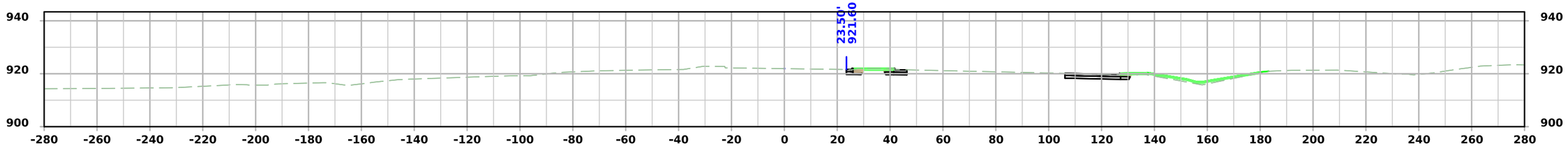
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER W.27	

12:03:14 AM 9/18/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_W02.dgn

Ramp A



STA 1001+50.00



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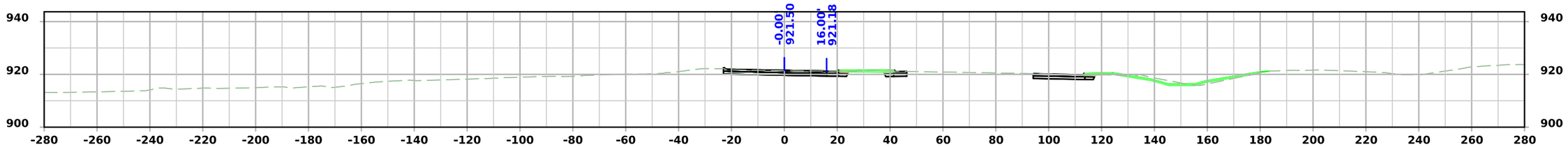
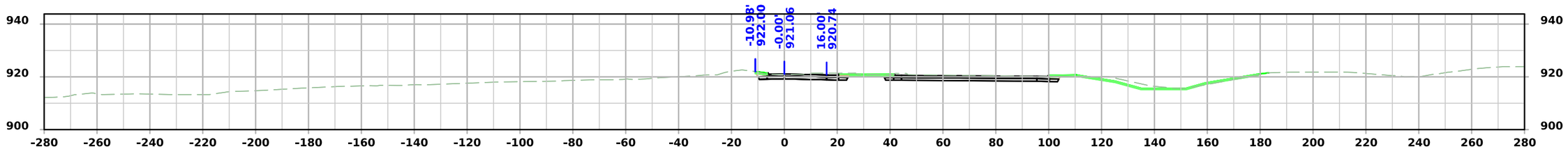


STA 1000+50.00

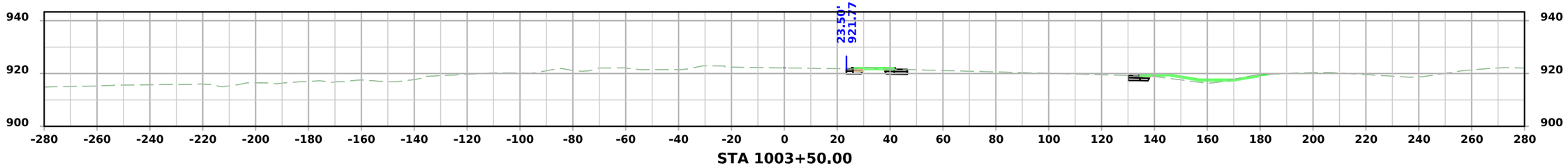


STA 1000+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.1

10:55:39 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y01.dgn

Ramp A



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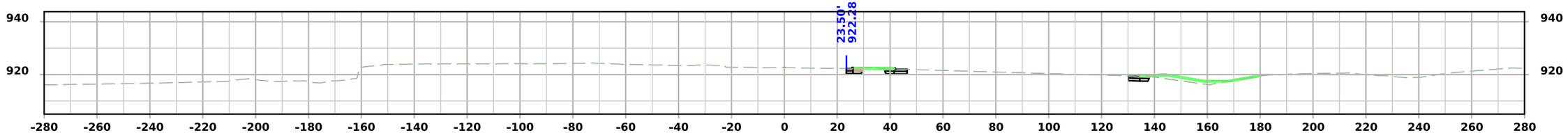
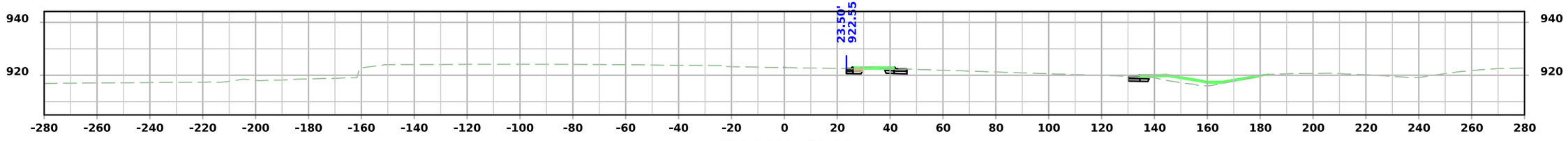
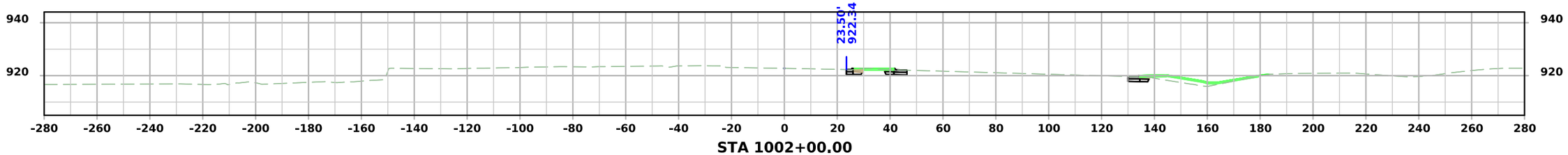


STA 1003+00.00



STA 1002+50.00



STA 1002+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.2

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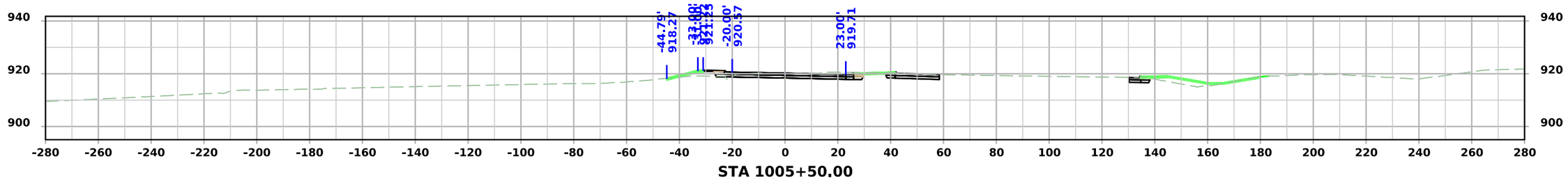
Ramp A



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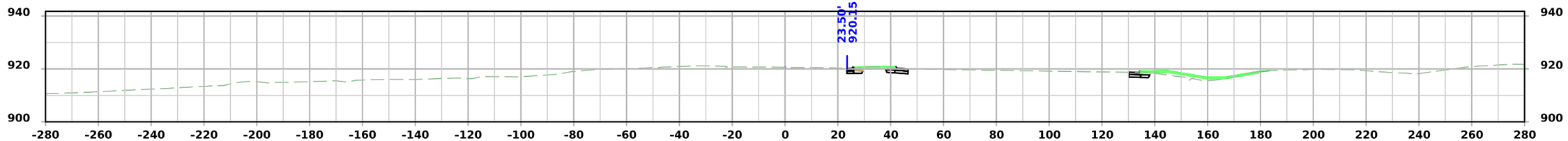

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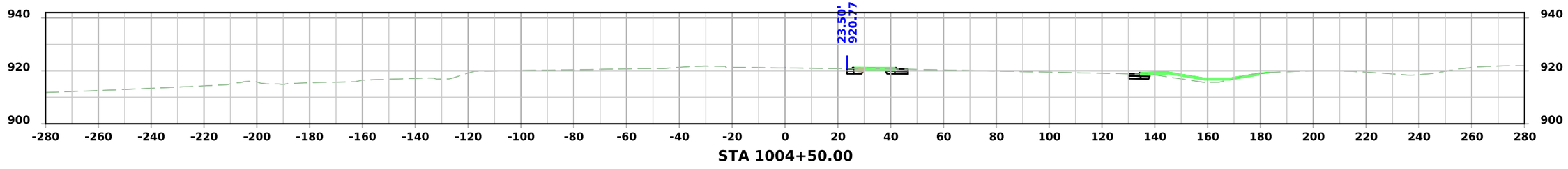
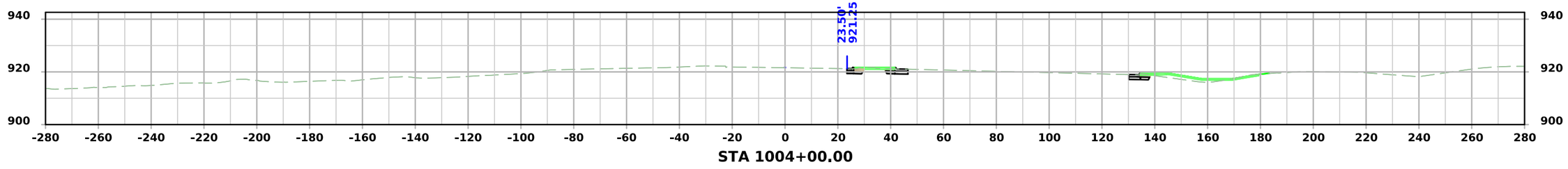


STA 1004+50.00



STA 1004+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.3

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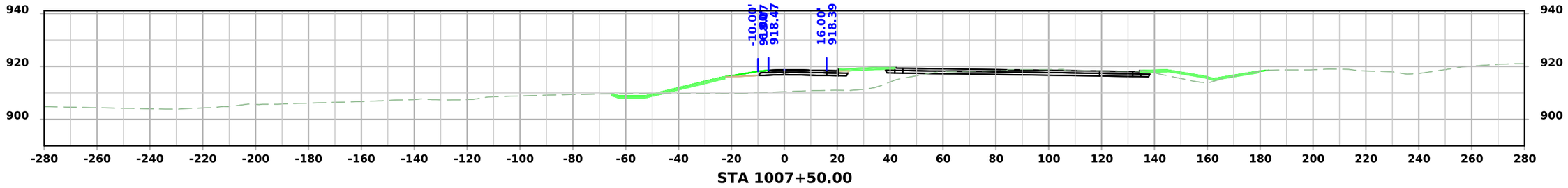
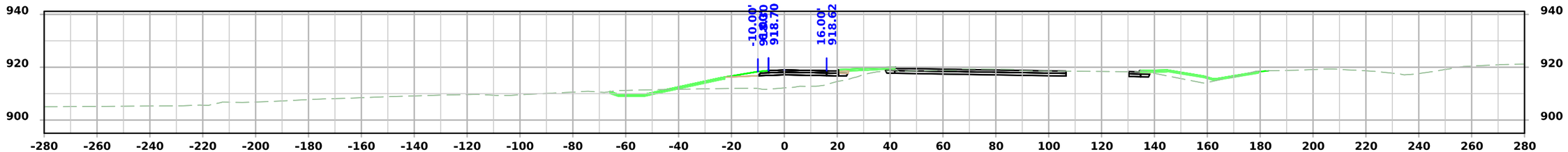
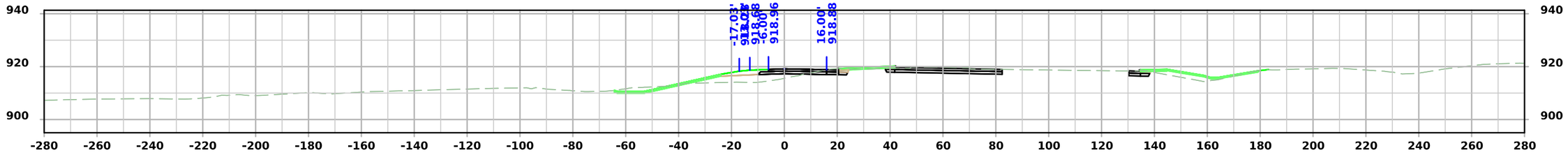
Ramp A



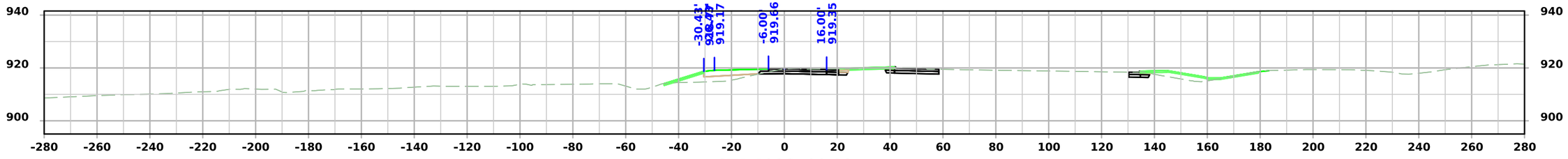
STA 1007+50.00



STA 1007+00.00



STA 1006+50.00



STA 1006+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.4

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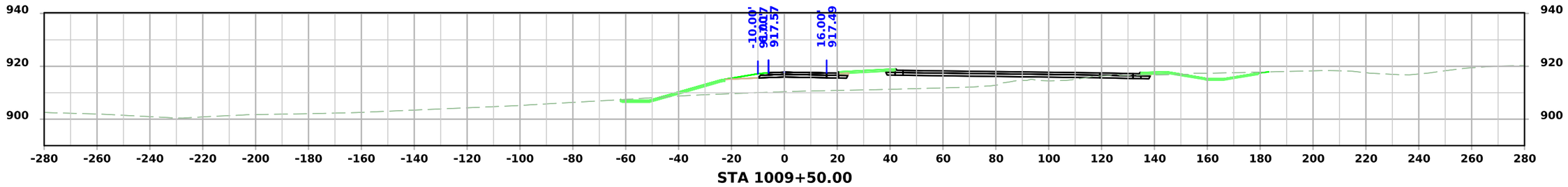
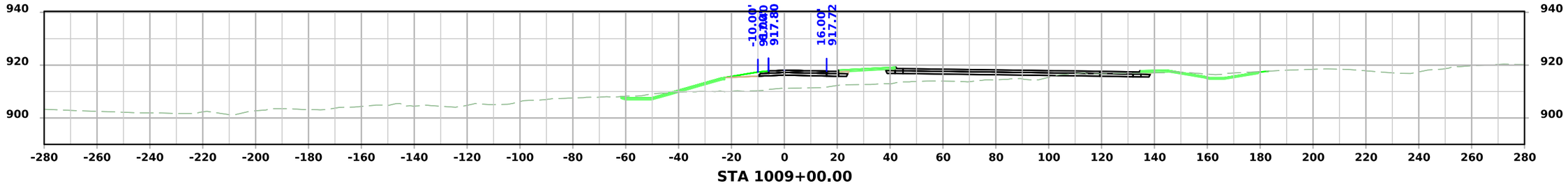
Ramp A



STA 1009+50.00



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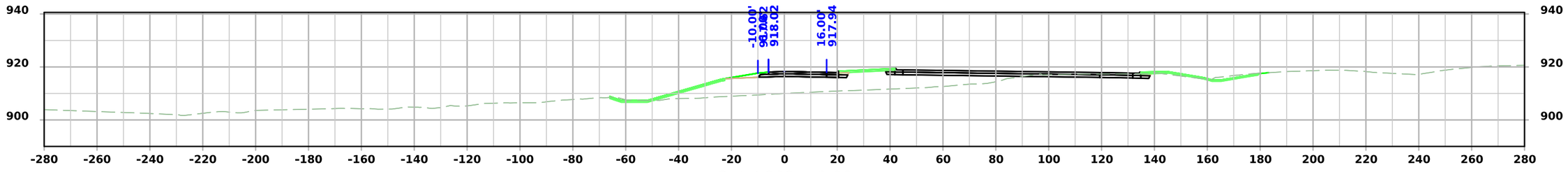
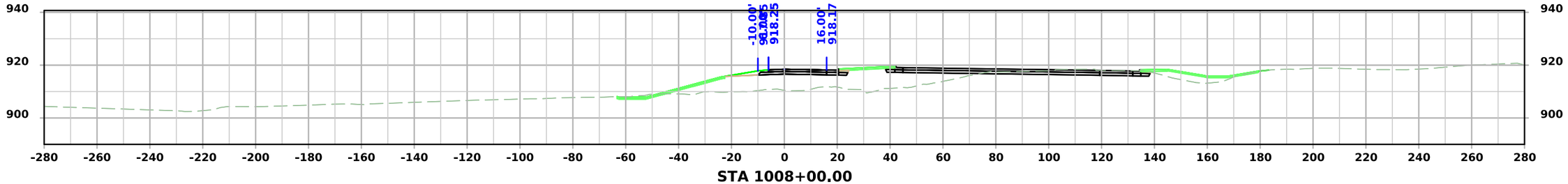


STA 1008+50.00

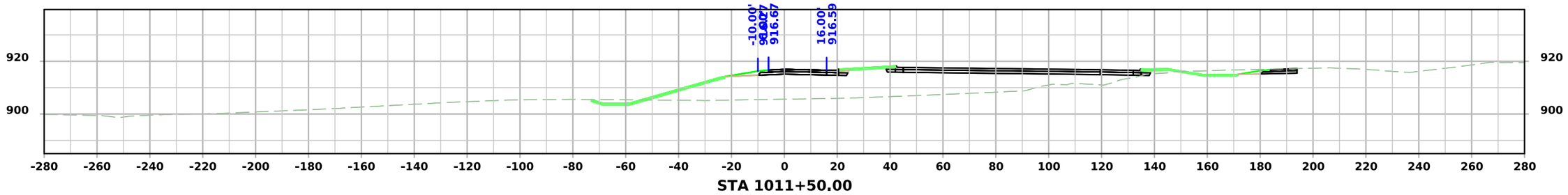


STA 1008+00.00

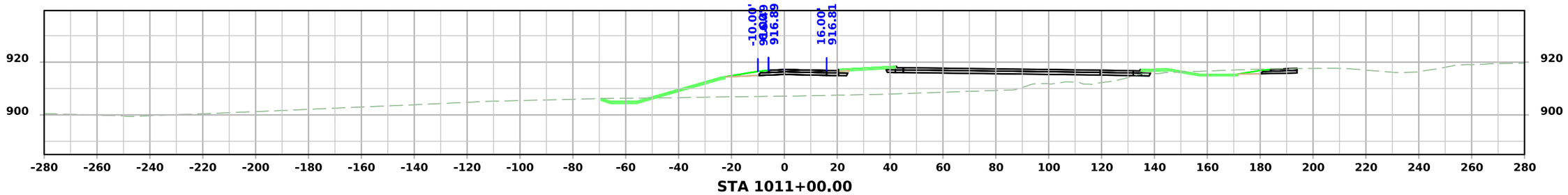
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.5

10:55:45 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y01.dgn

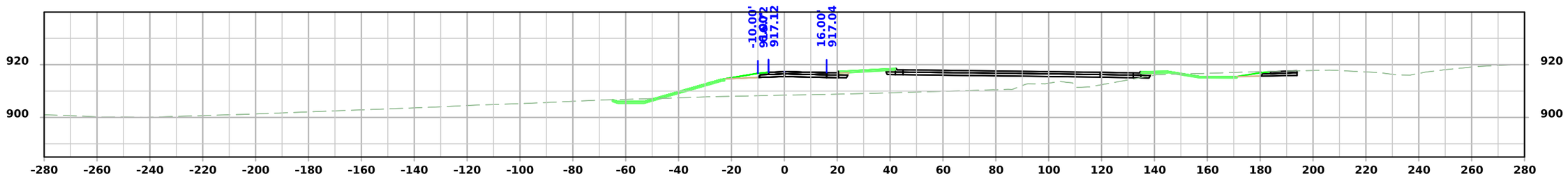
Ramp A



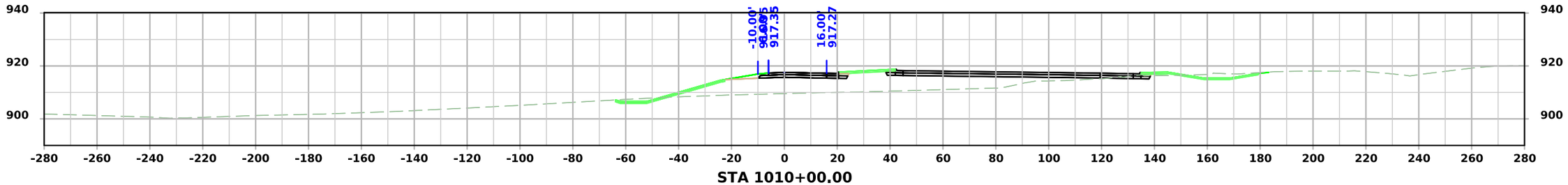
STA 1011+50.00



STA 1011+00.00



STA 1010+50.00

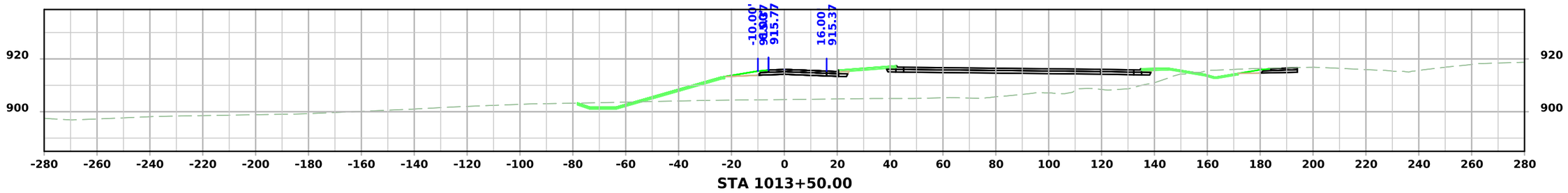


STA 1010+00.00

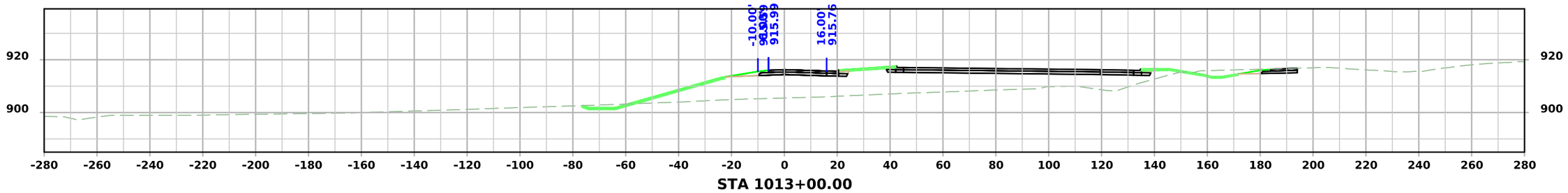
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.6

10:55:47 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y01.dgn

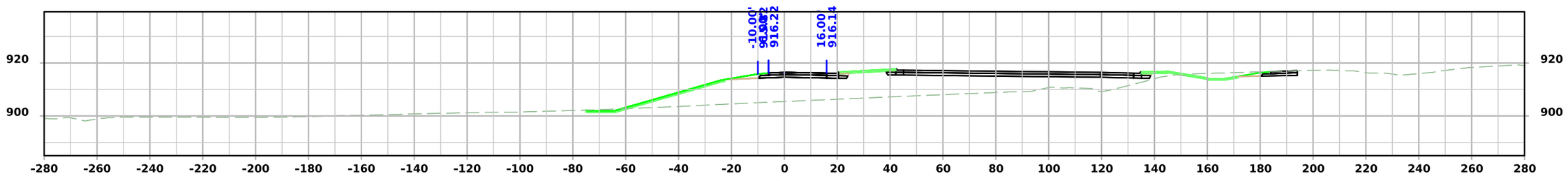
Ramp A



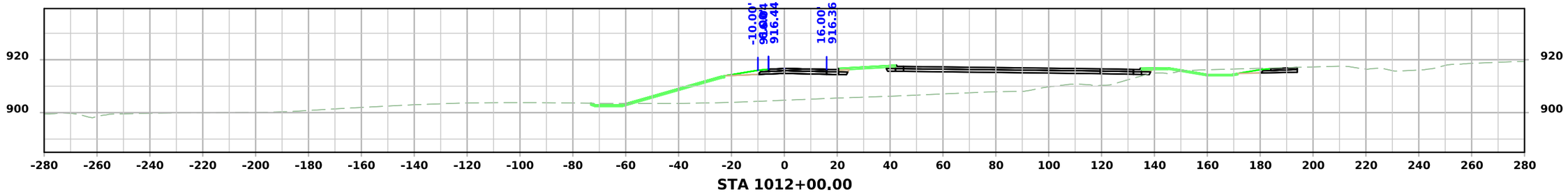
STA 1013+50.00



STA 1013+00.00



STA 1012+50.00

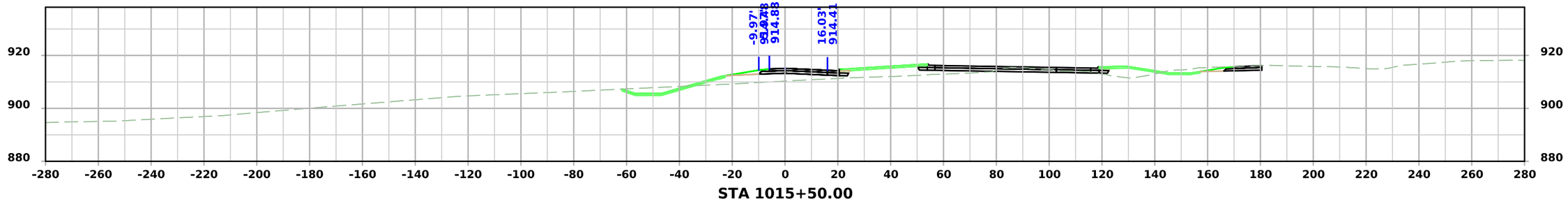


STA 1012+00.00

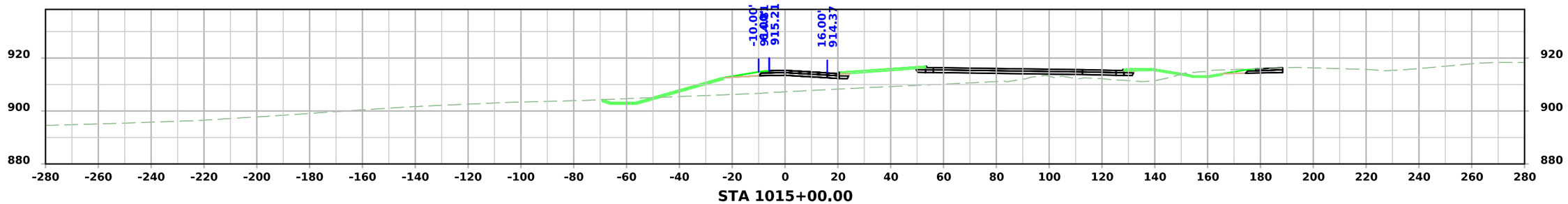
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.7

10:55:49 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y01.dgn

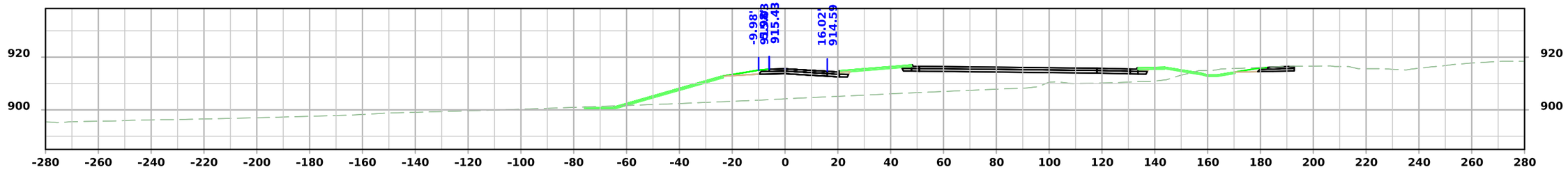
Ramp A



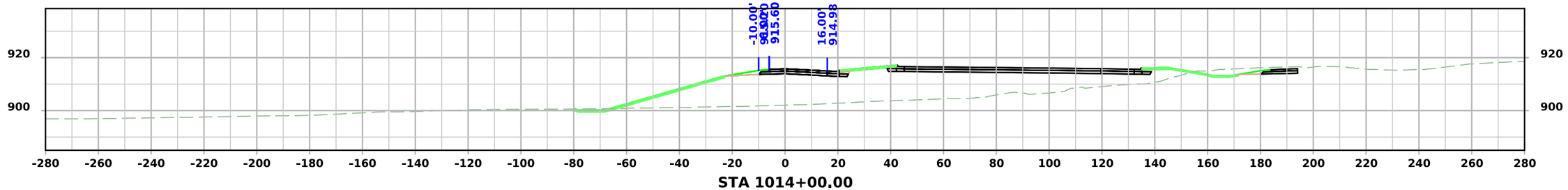
STA 1015+50.00



STA 1015+00.00



STA 1014+50.00

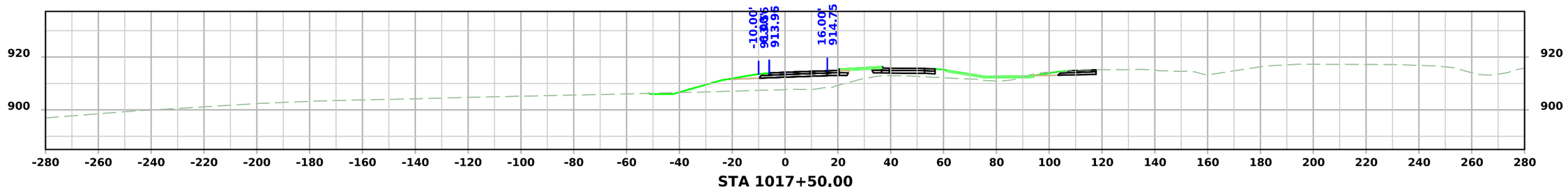


STA 1014+00.00

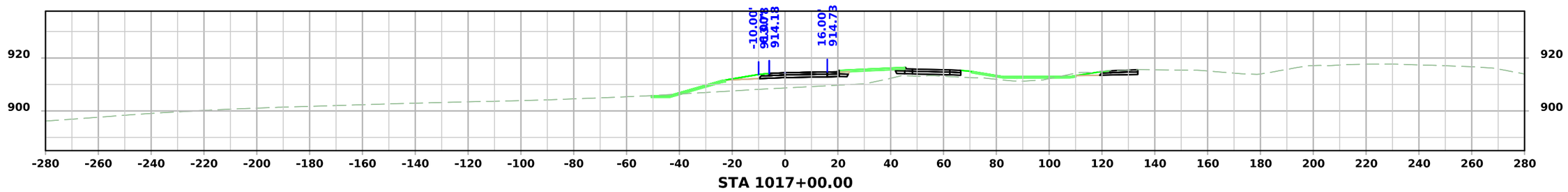
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.8

10:55:51 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y01.dgn

Ramp A



STA 1017+50.00



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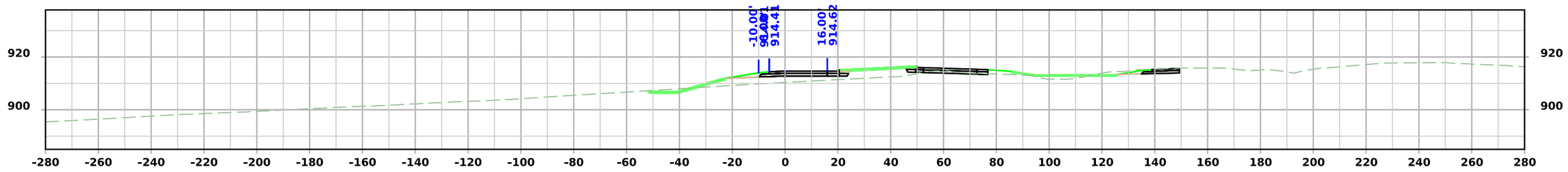
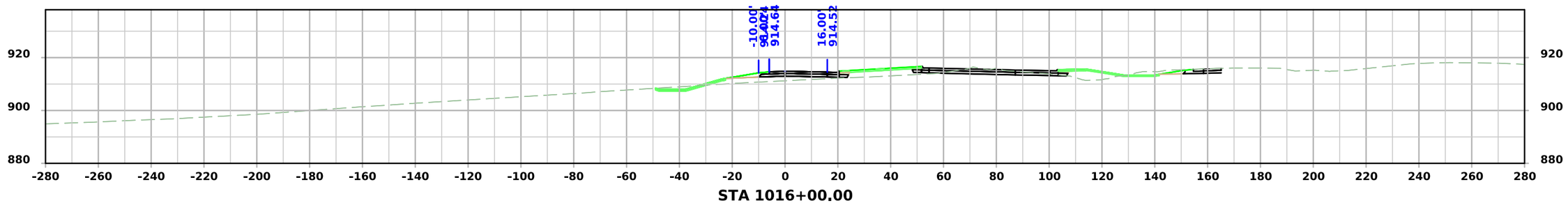


STA 1016+50.00

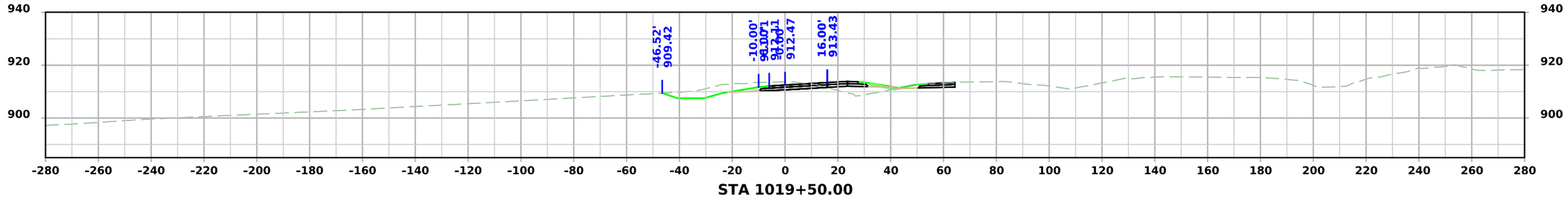


STA 1016+00.00

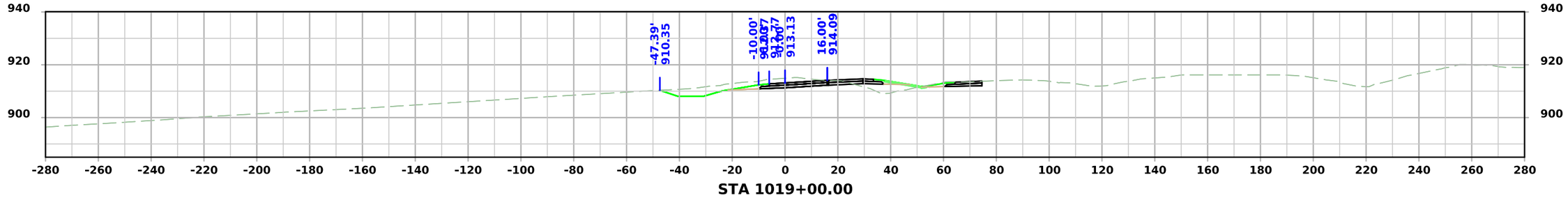
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.9

10:55:53 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y01.dgn

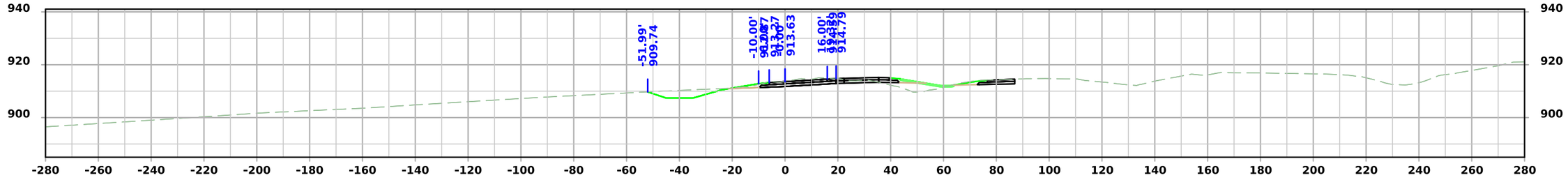
Ramp A



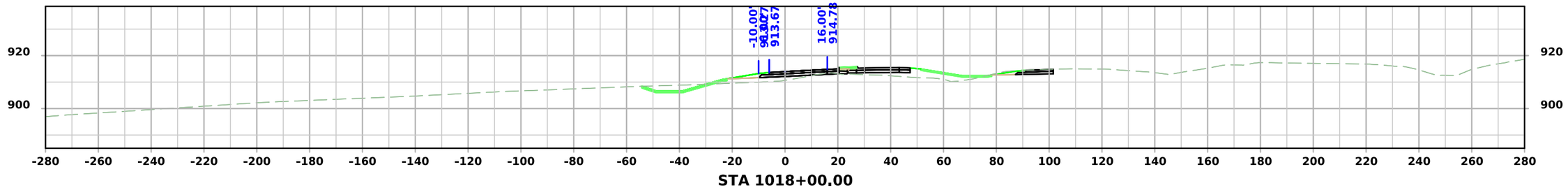
STA 1019+50.00



STA 1019+00.00



STA 1018+50.00



STA 1018+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.10

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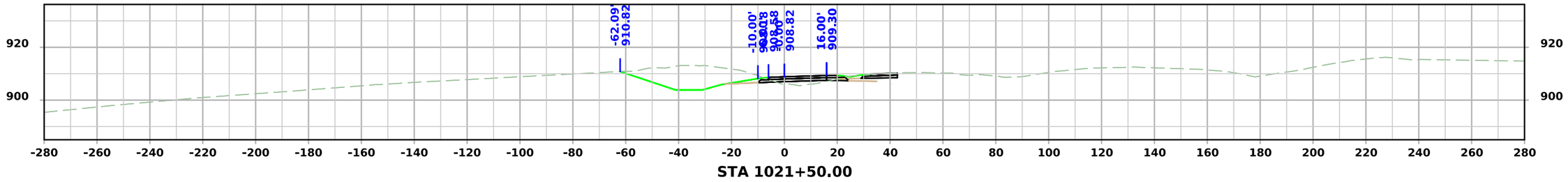
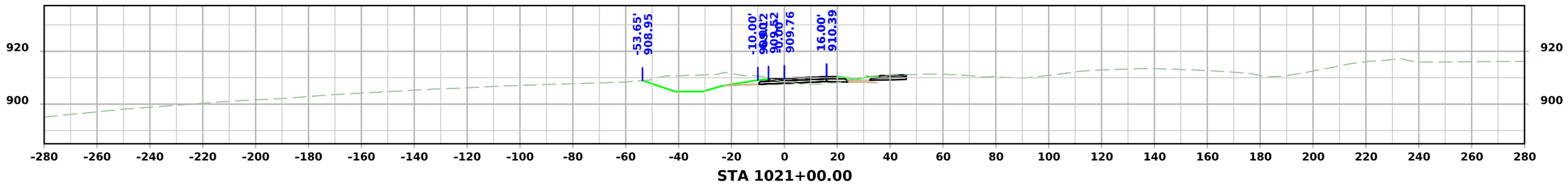
Ramp A



STA 1021+50.00



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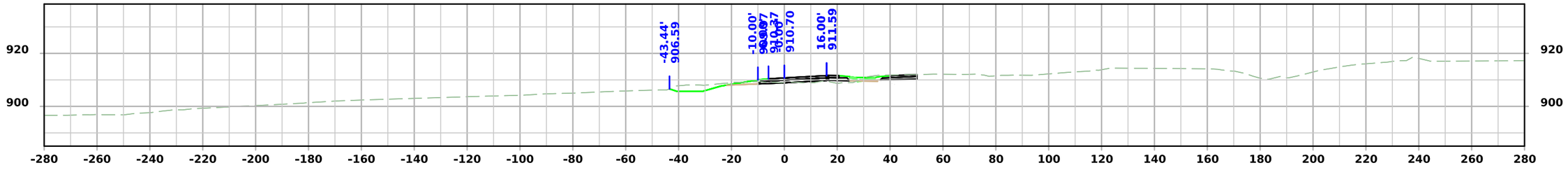
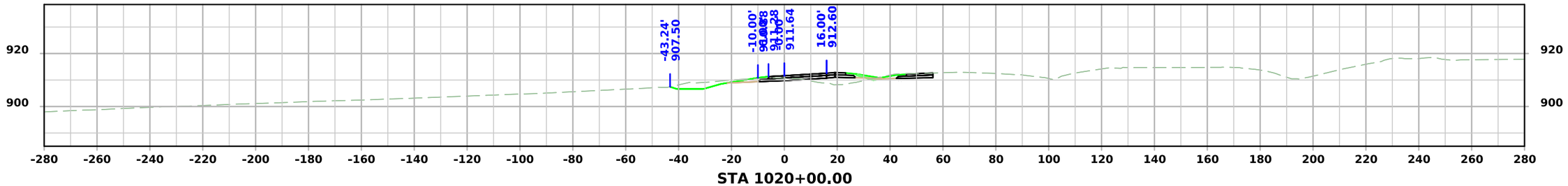


STA 1020+50.00



STA 1020+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.11

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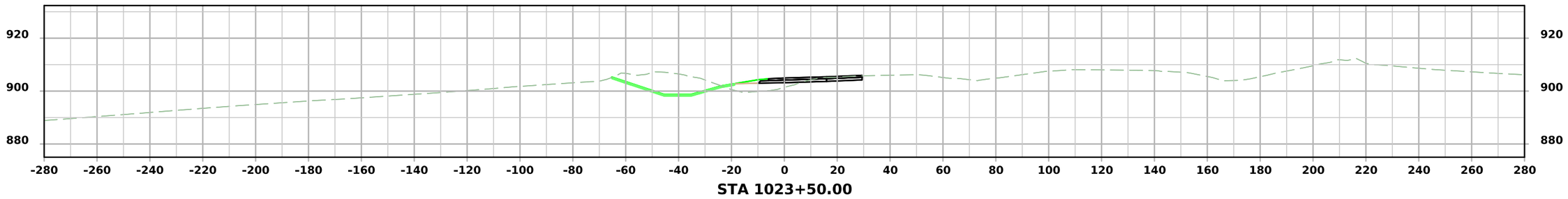
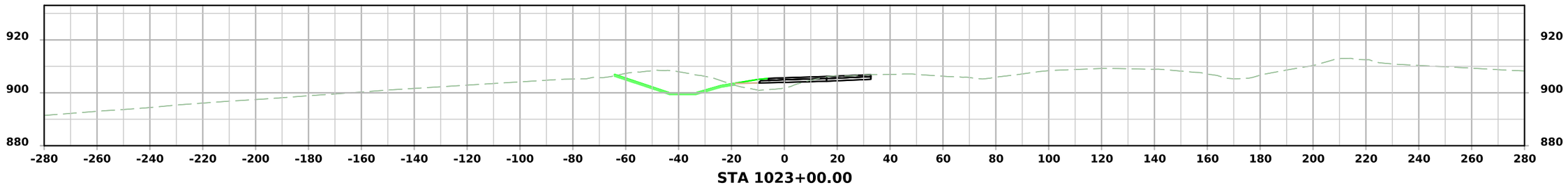
Ramp A



STA 1023+50.00



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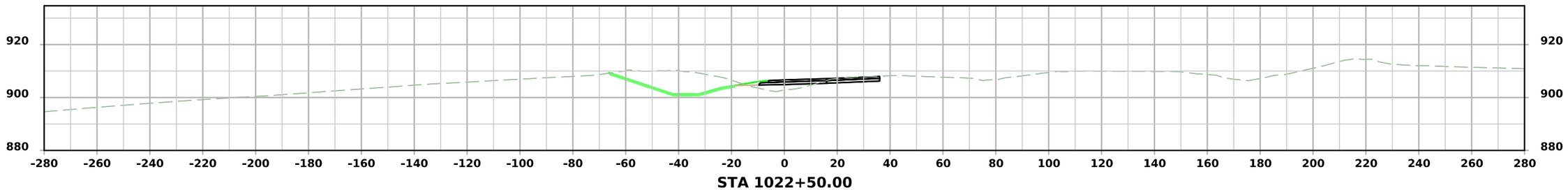
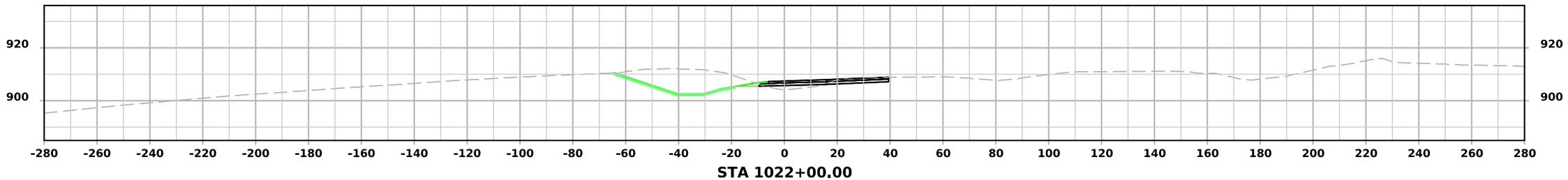


STA 1022+50.00



STA 1022+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.12

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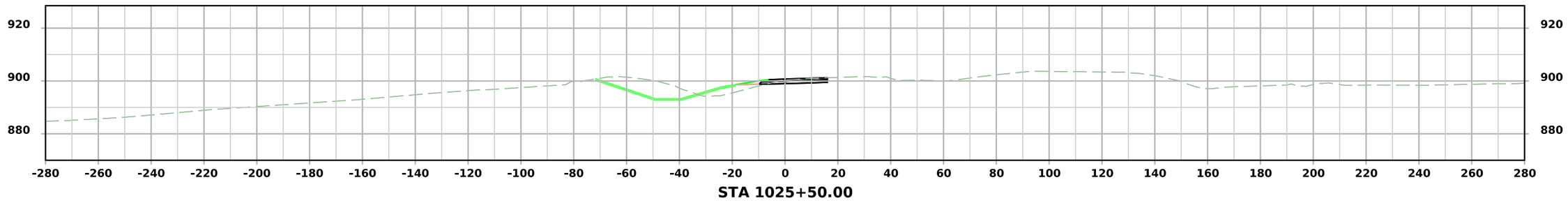
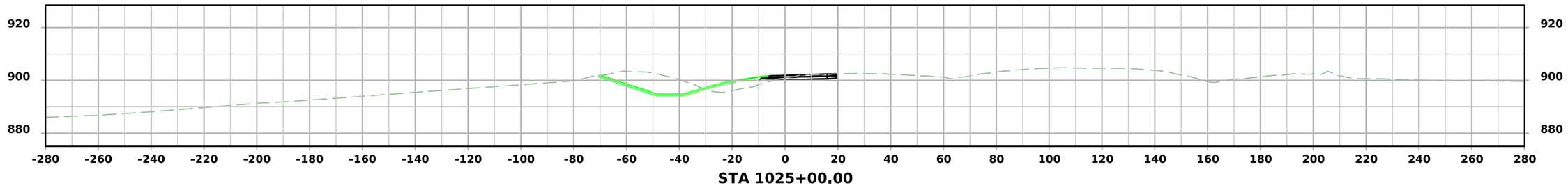
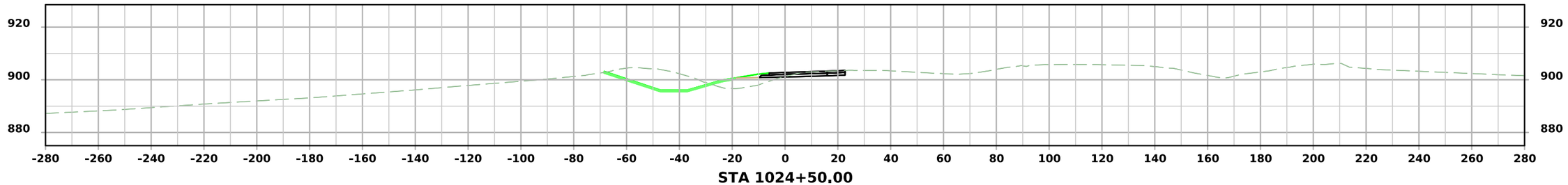
Ramp A



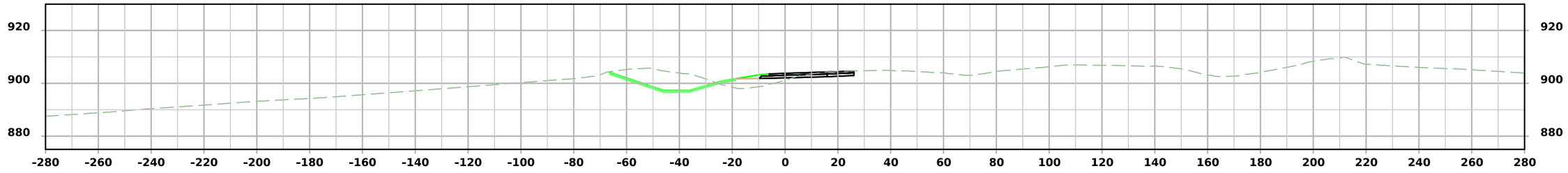
STA 1025+50.00



STA 1025+00.00



STA 1024+50.00



STA 1024+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.13

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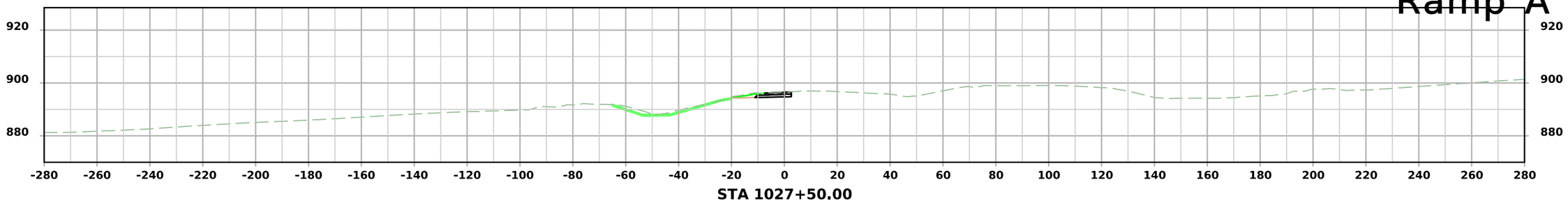
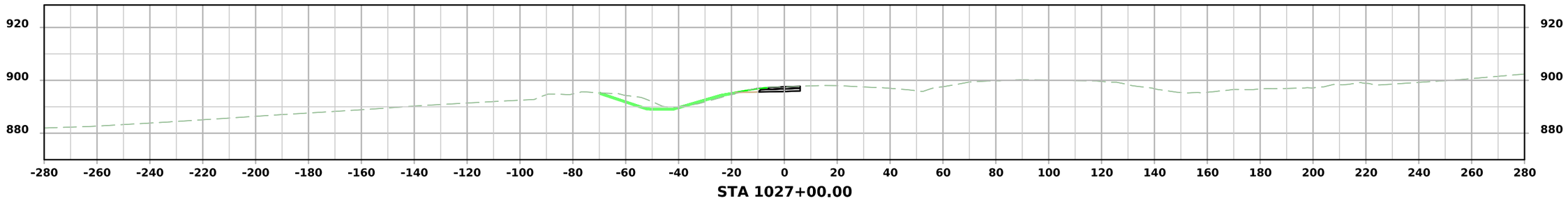
Ramp A



STA 1027+50.00



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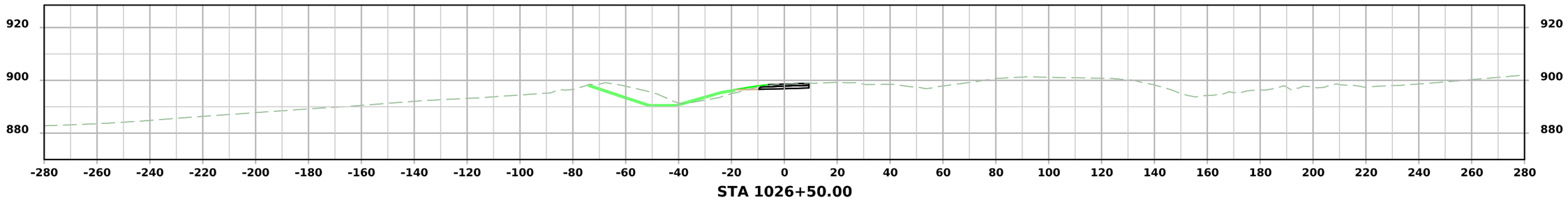
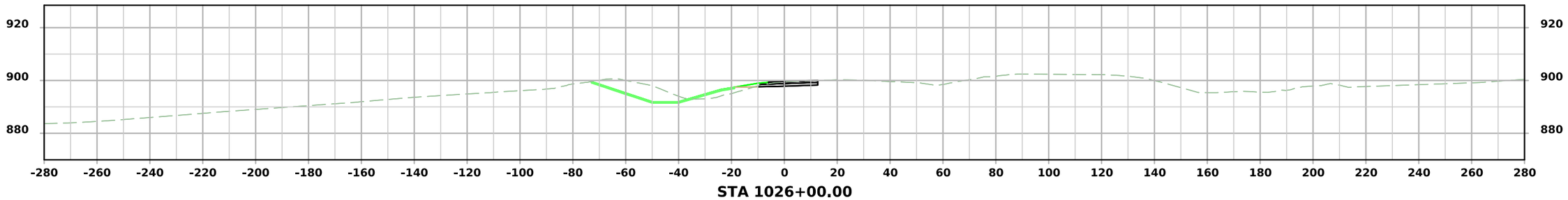


STA 1026+50.00



STA 1026+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.14

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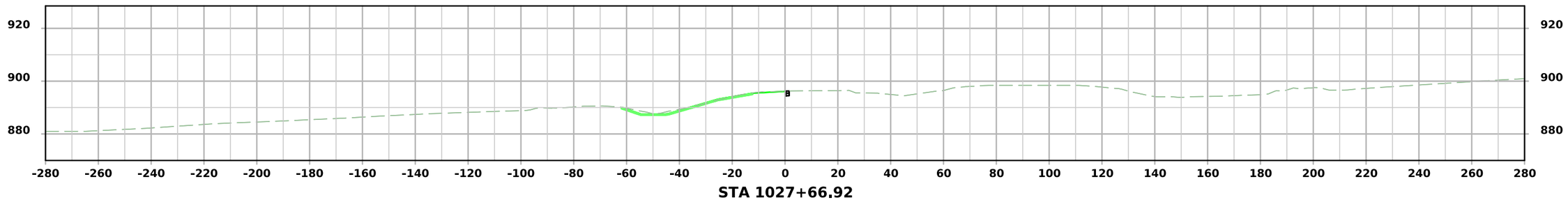
Ramp A



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.15	

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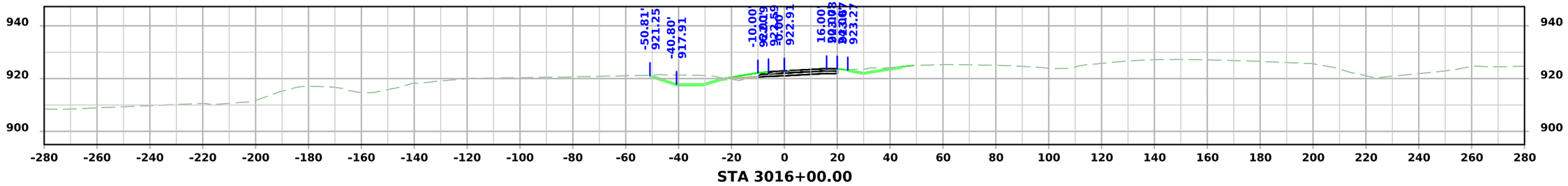
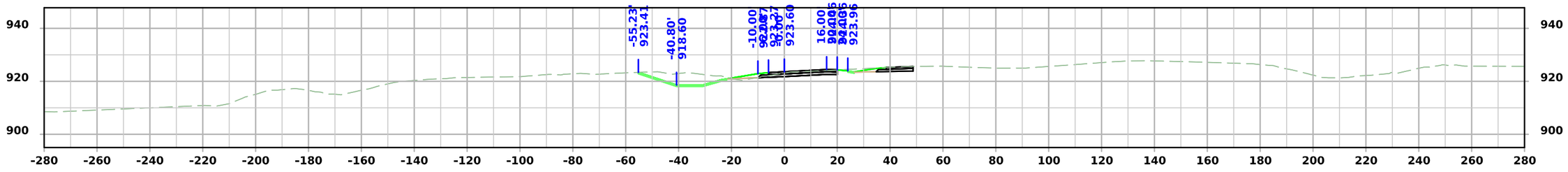
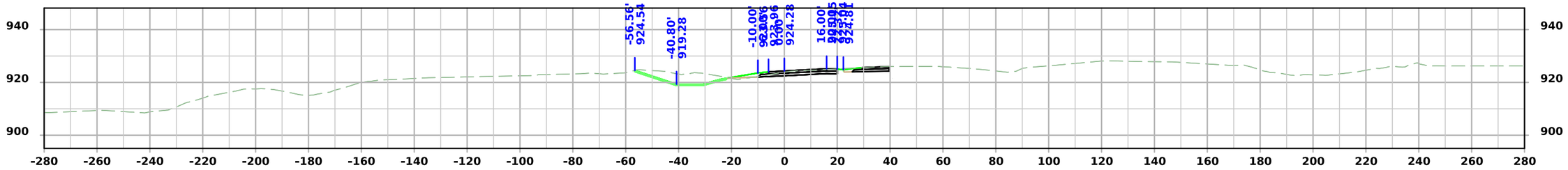
Ramp C



STA 3016+00.00



STA 3015+50.00



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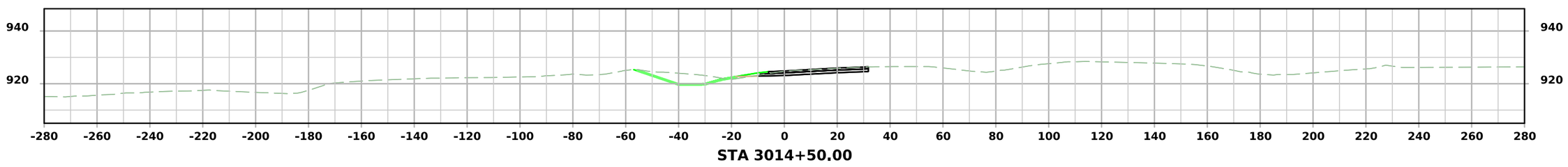

STA 3014+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.16

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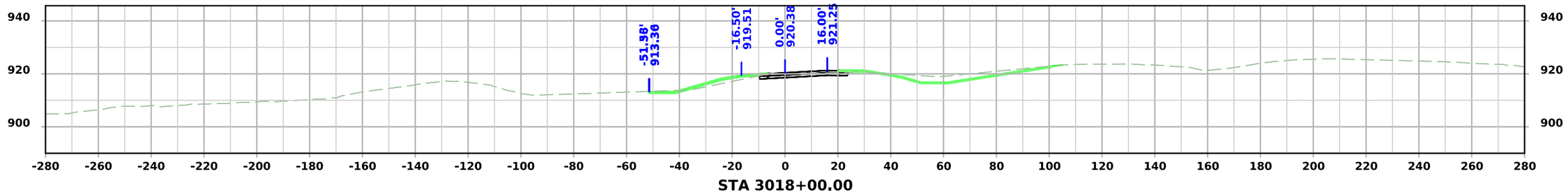
Ramp C



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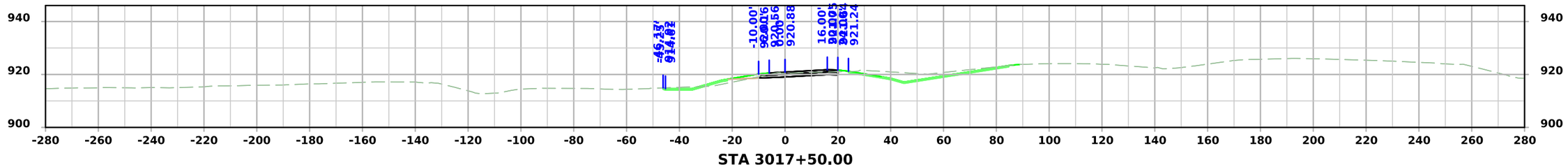

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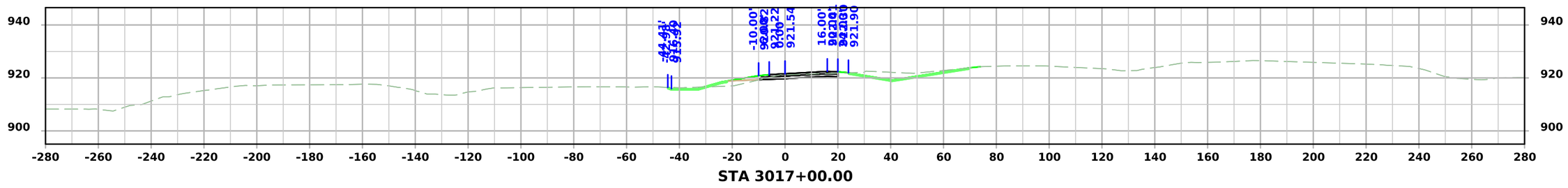

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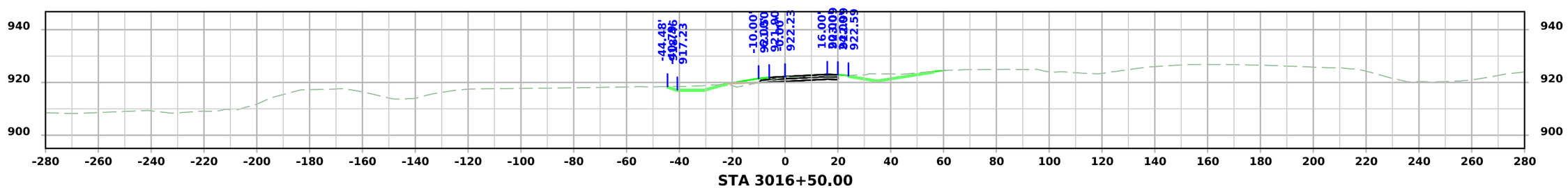

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.17

10:56:16 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y02.dgn

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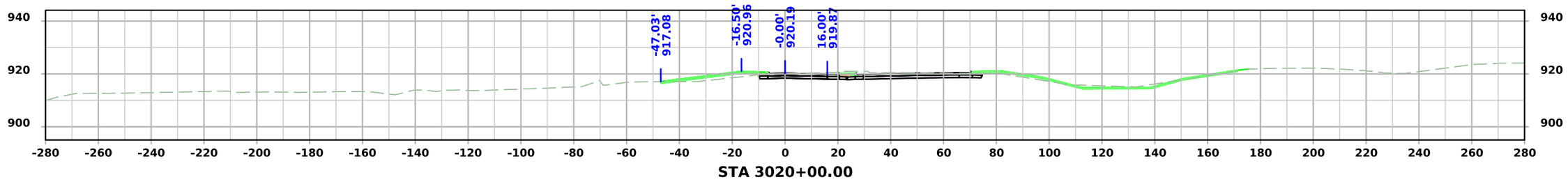

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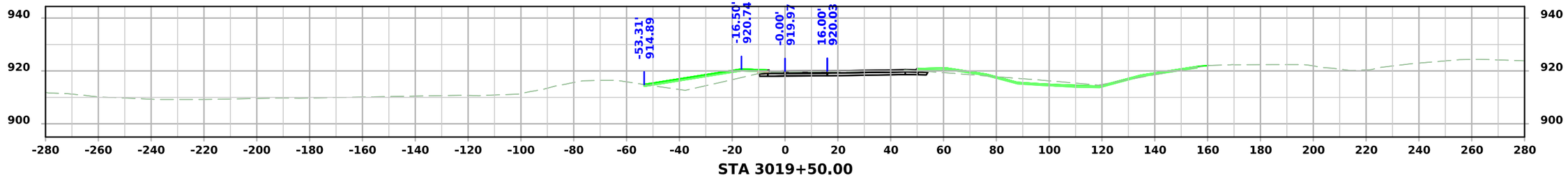
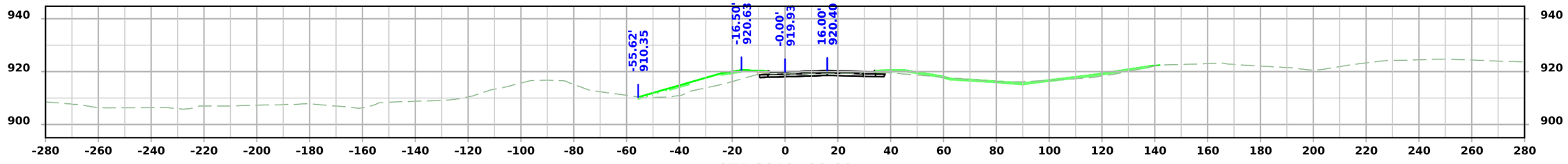


STA 3019+50.00



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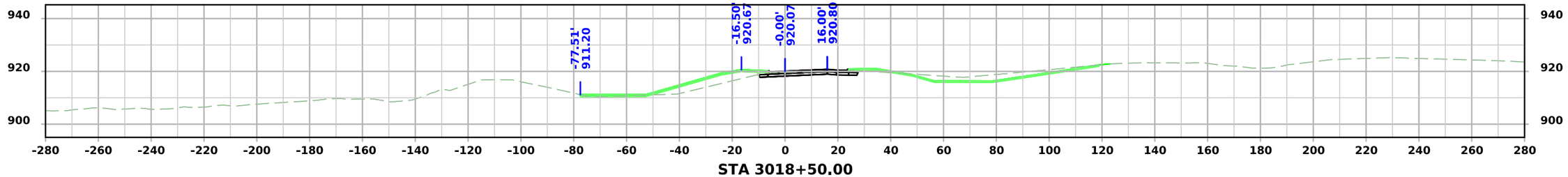

STA 3018+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.18

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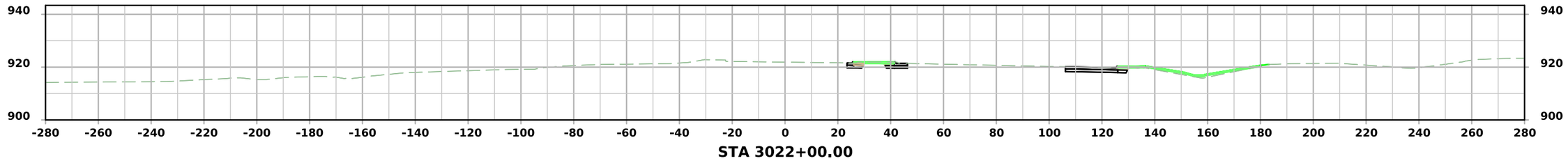
Ramp C



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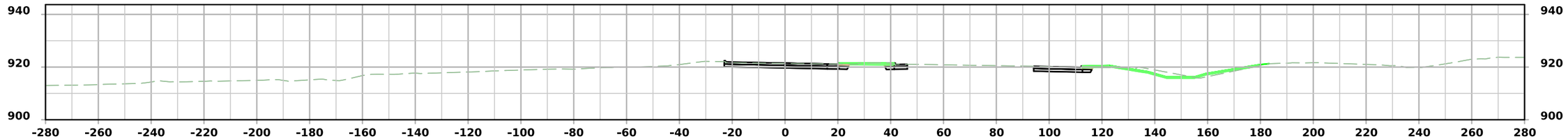

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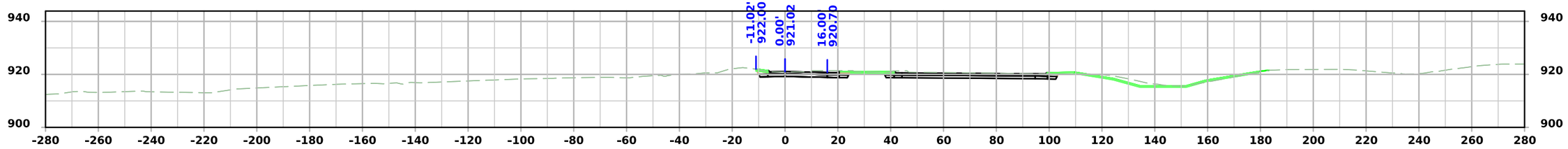

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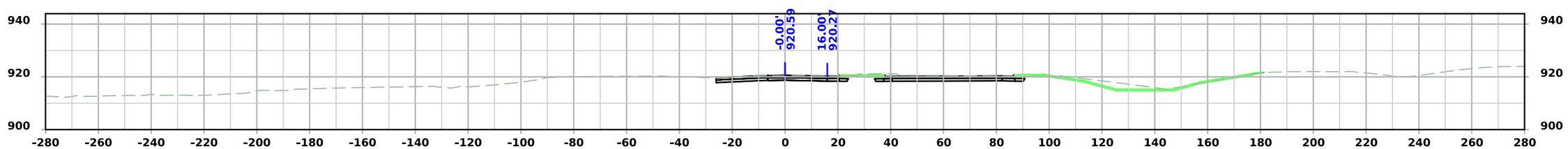

STA 3020+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.19

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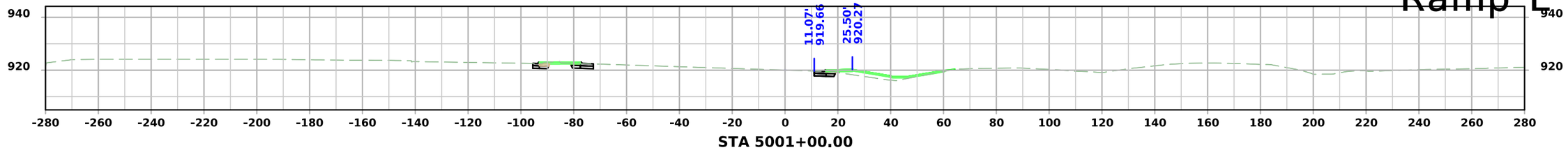
Ramp E



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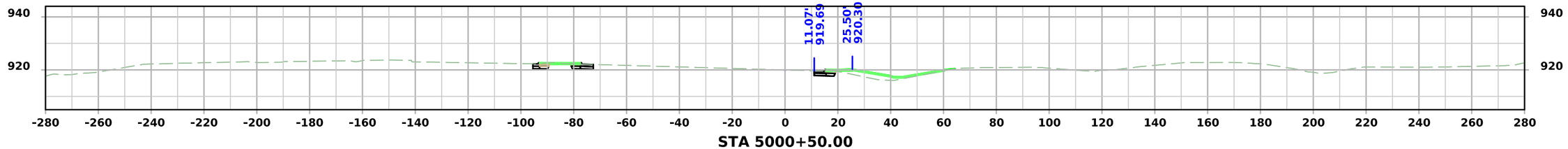

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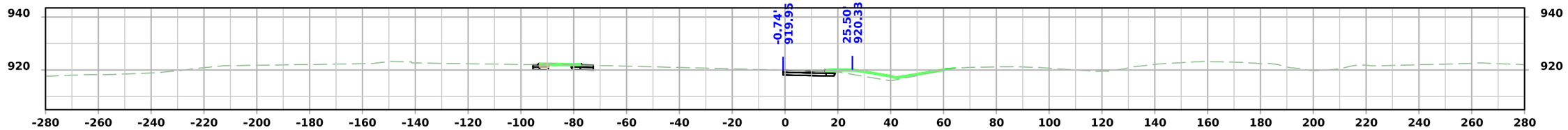

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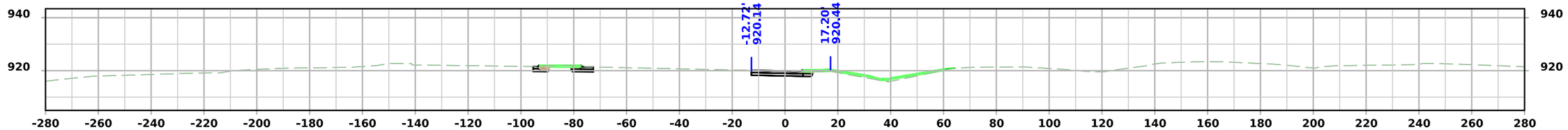

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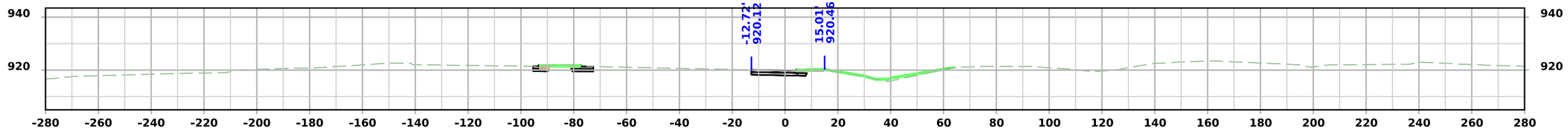

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.20

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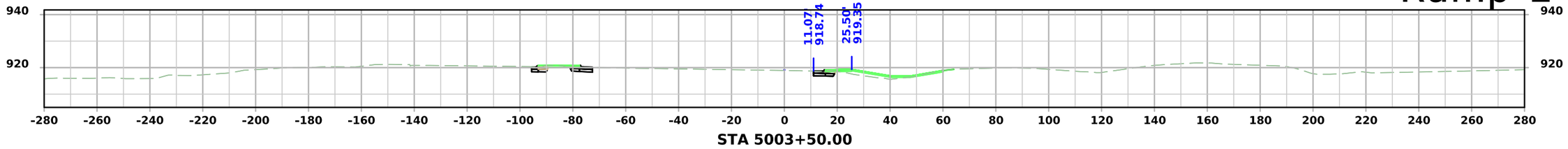
Ramp E



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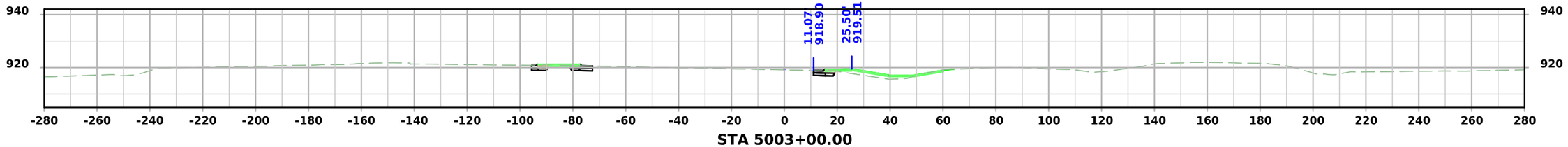

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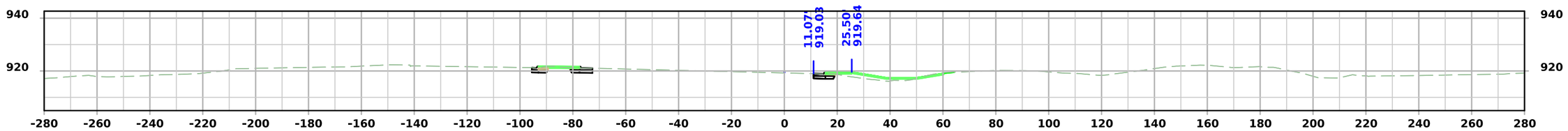

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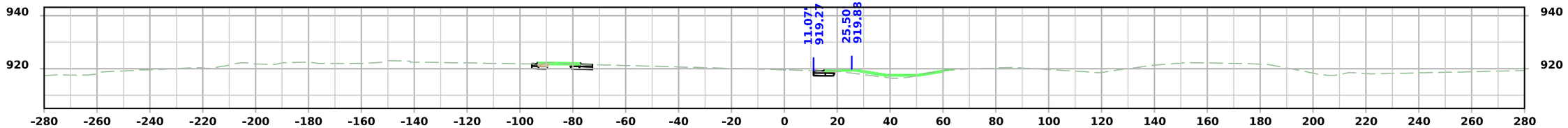

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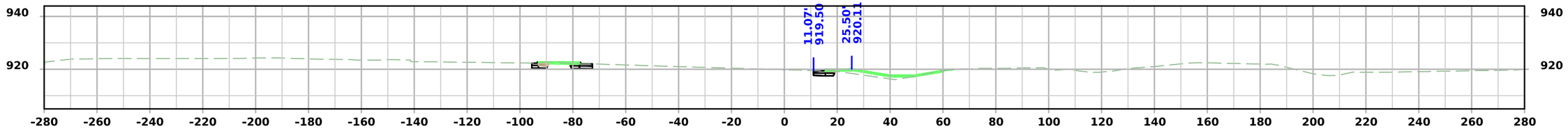

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.21

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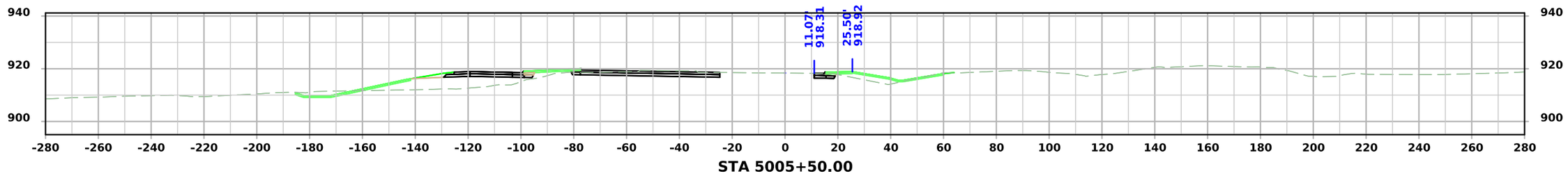
Ramp E



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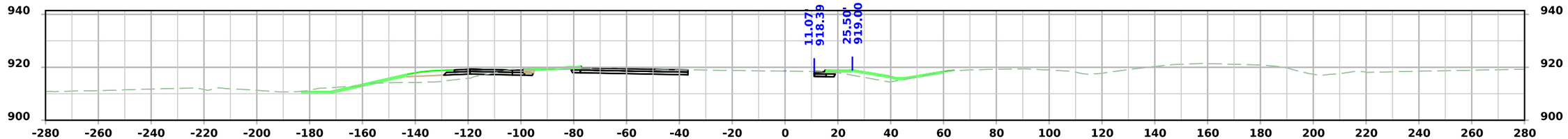

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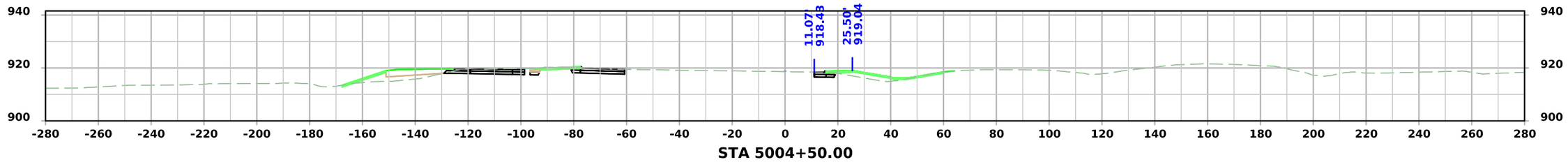

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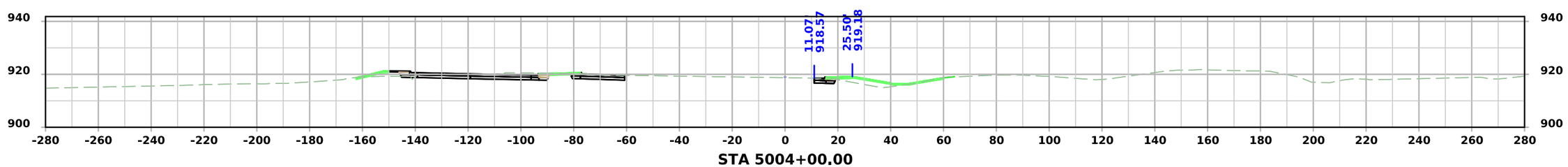

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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.22

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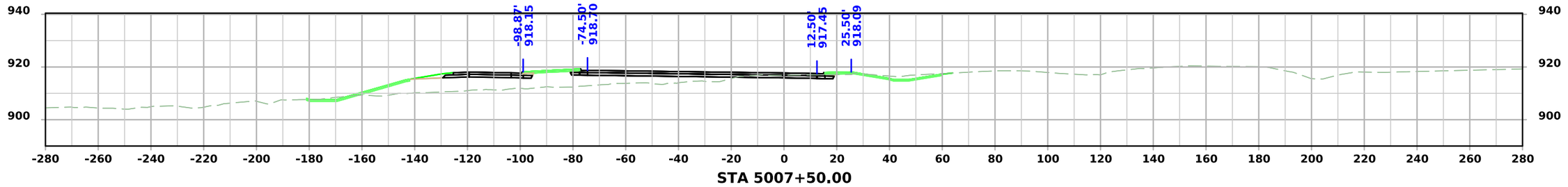
Ramp E



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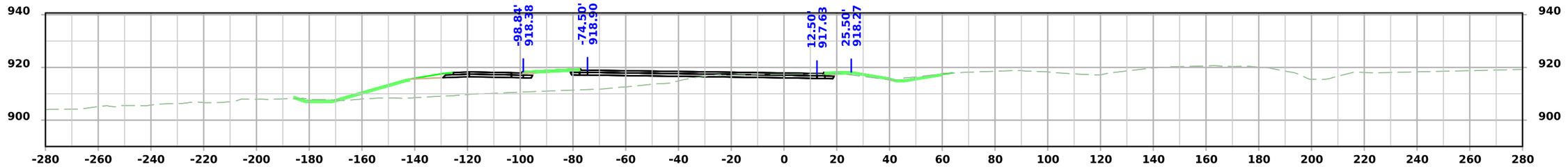

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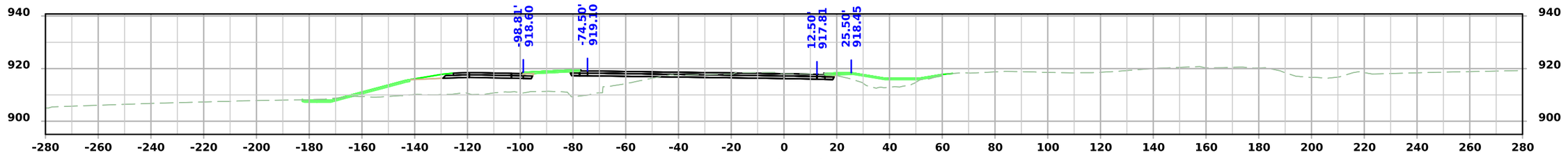
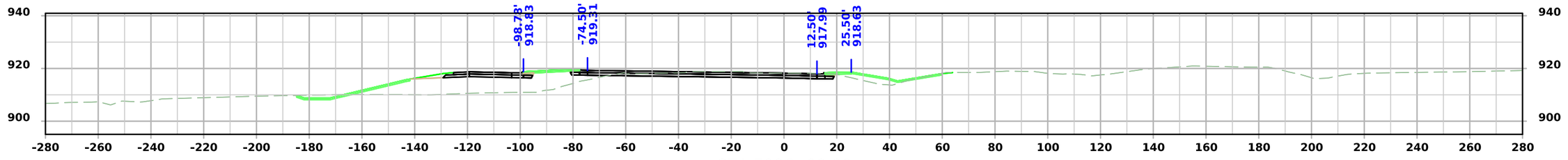


STA 5006+50.00



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FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.23

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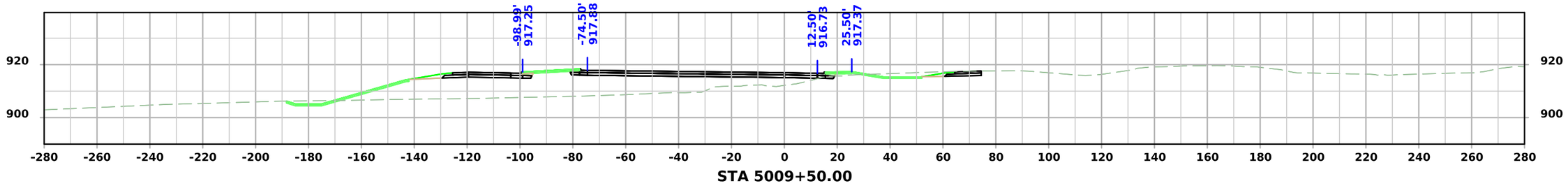
Ramp E



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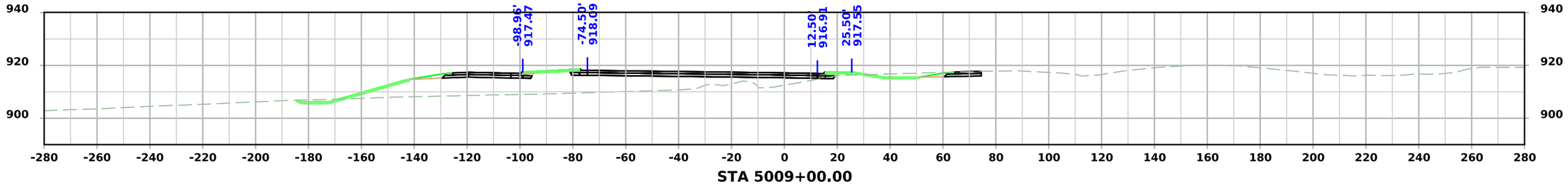

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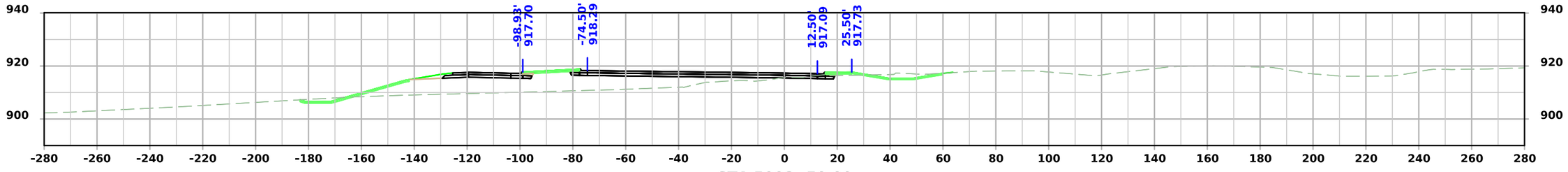

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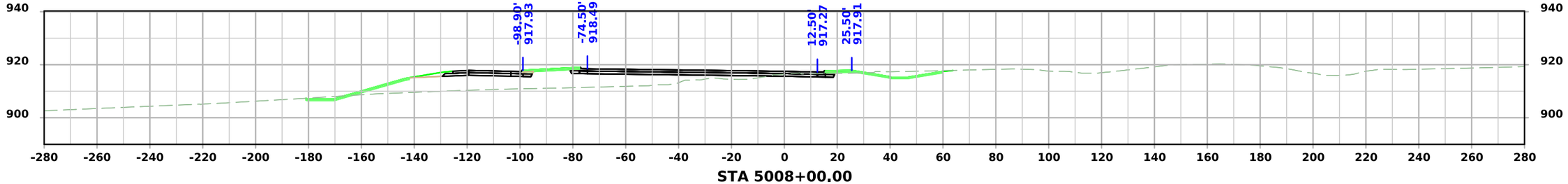

STA 5008+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.24

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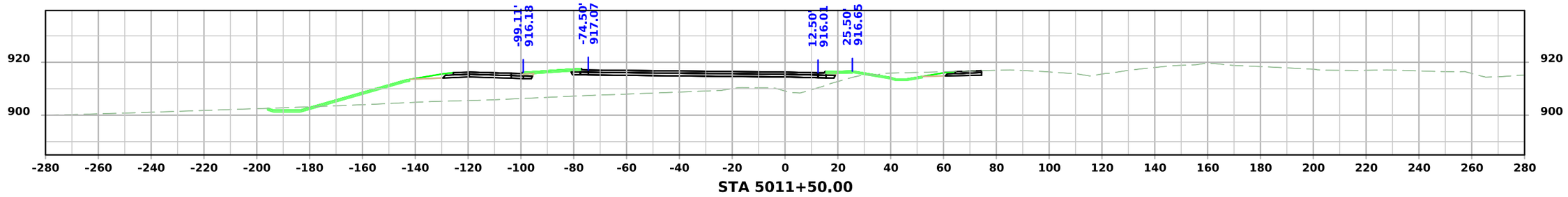
Ramp E



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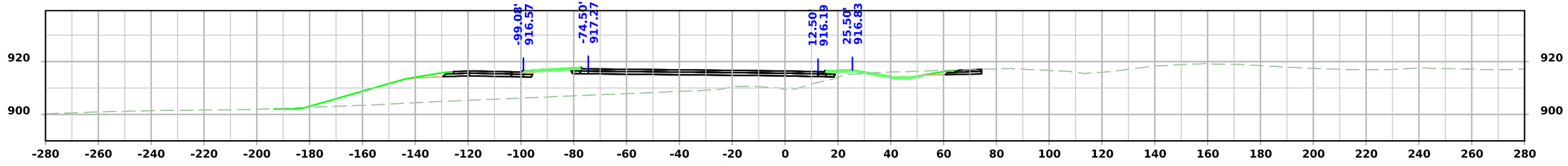

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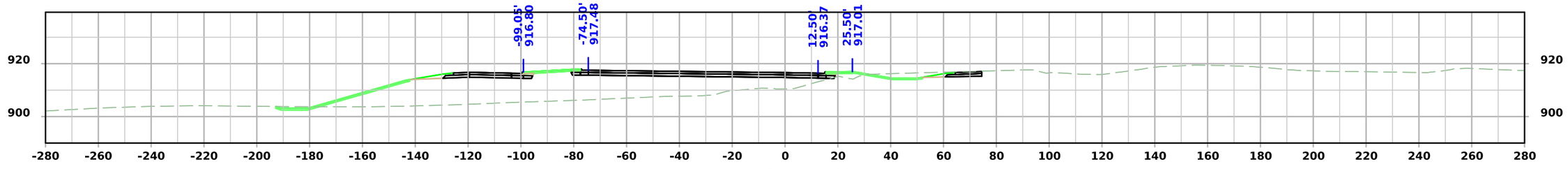

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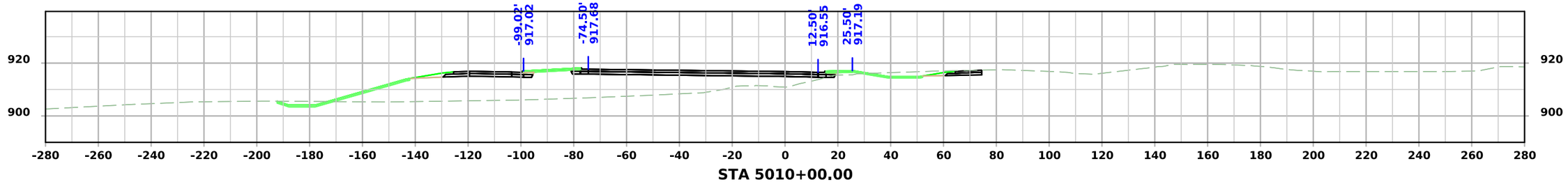

STA 5010+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.25

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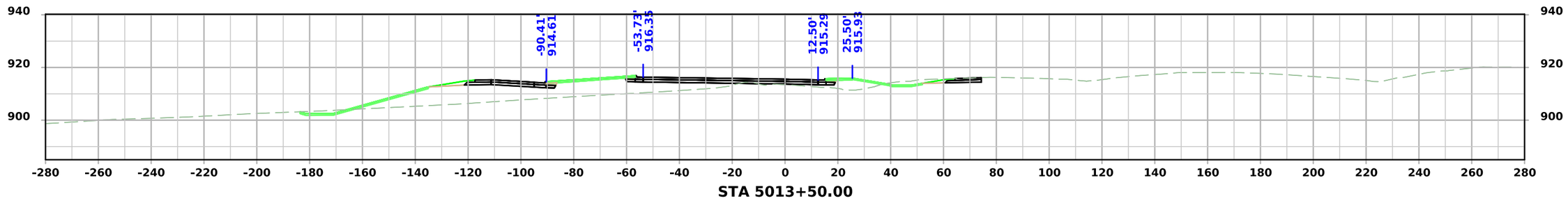
Ramp E



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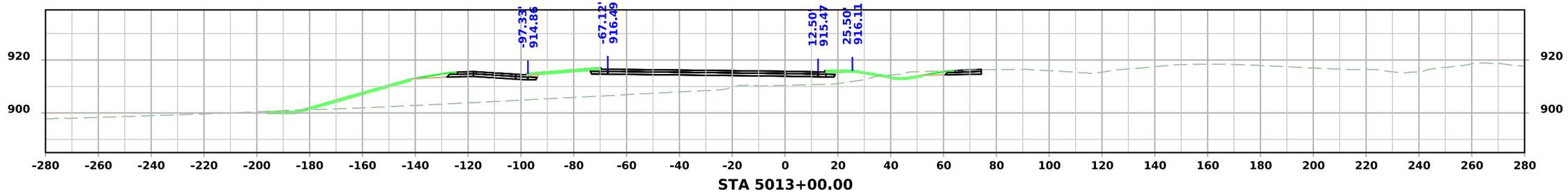

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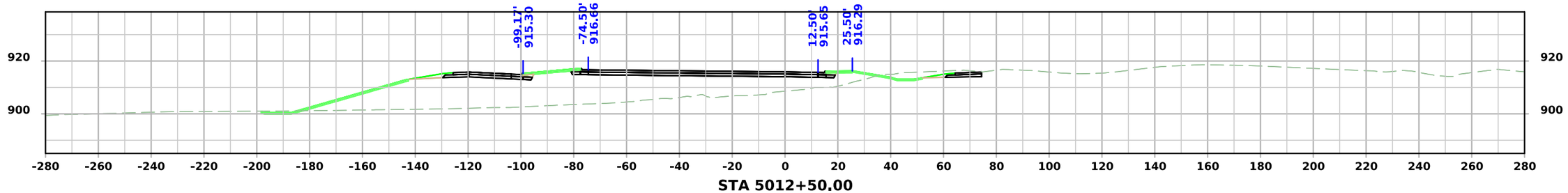

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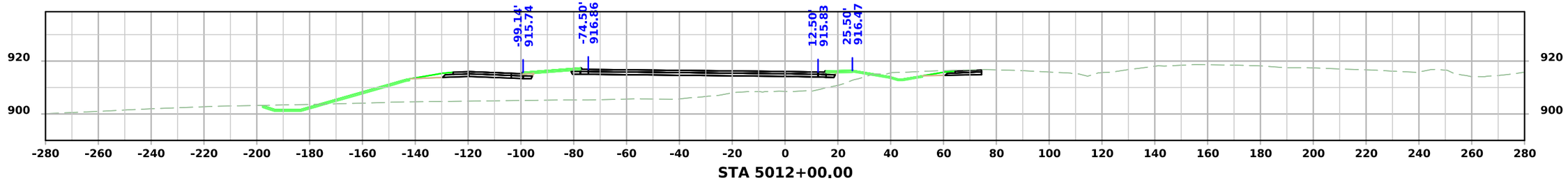

STA 5012+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.26

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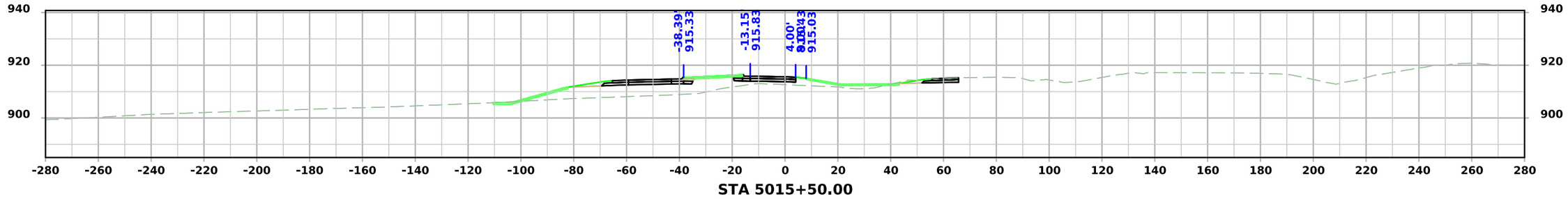
Ramp E



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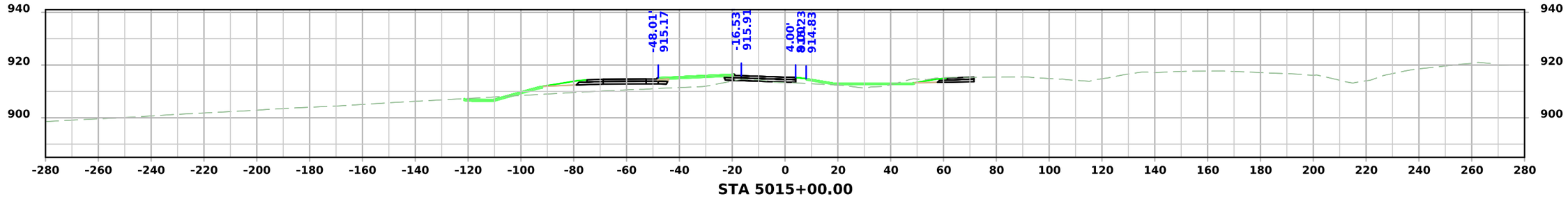

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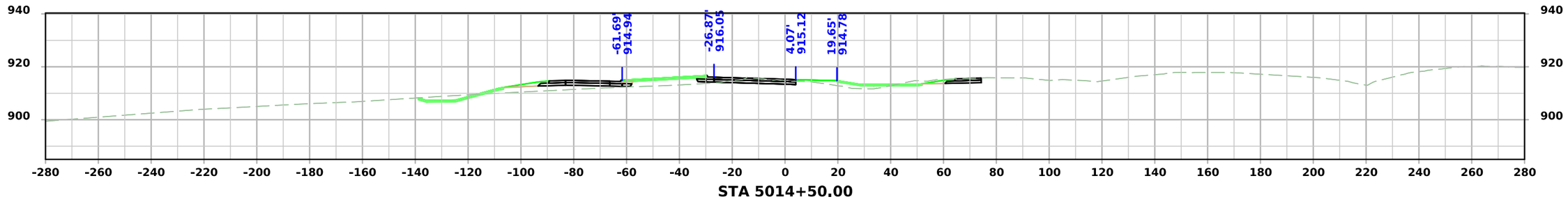

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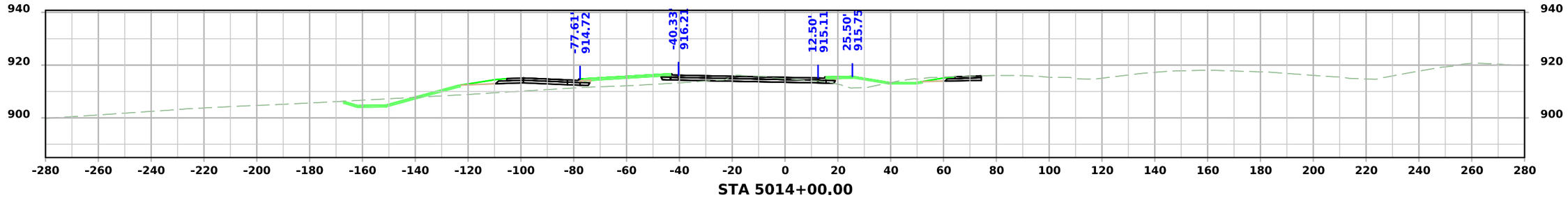
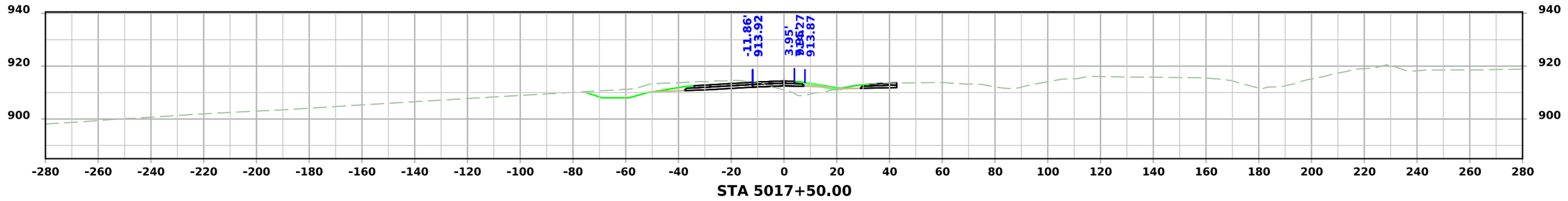


STA 5014+00.00

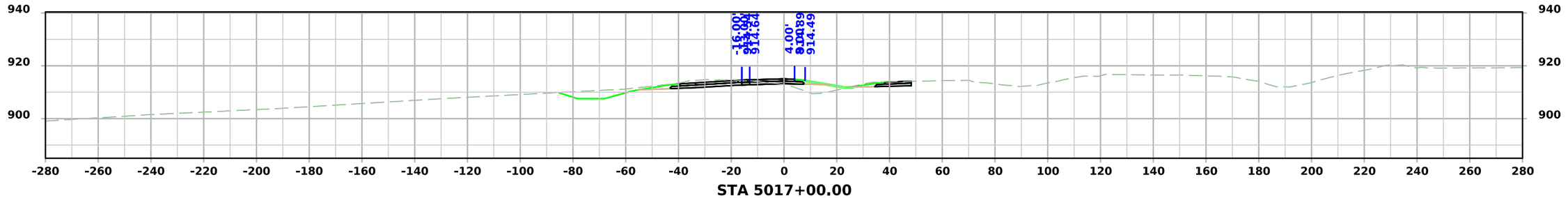
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.27

10:56:43 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y03.dgn

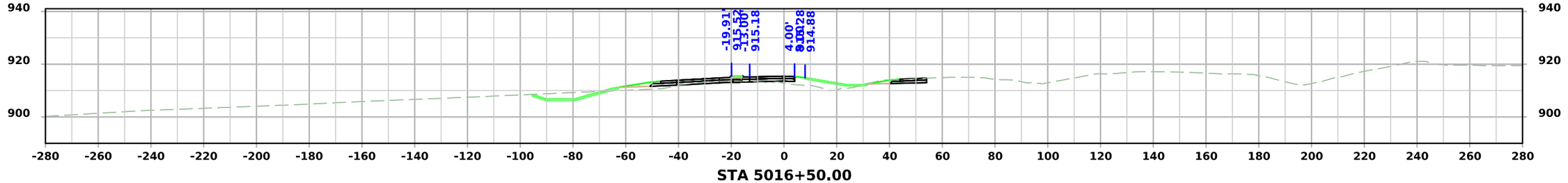
Ramp E



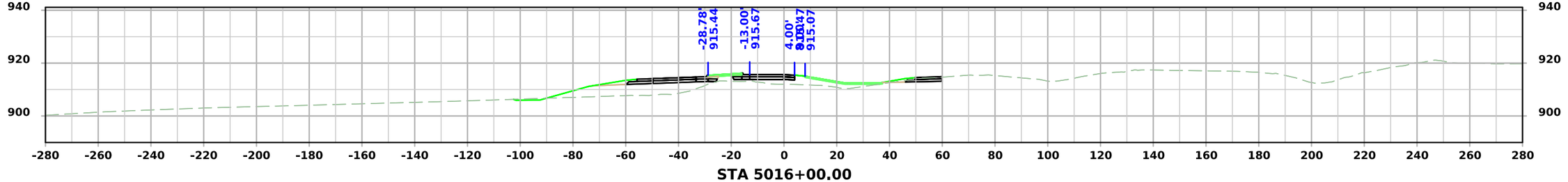
STA 5017+50.00



STA 5017+00.00



STA 5016+50.00

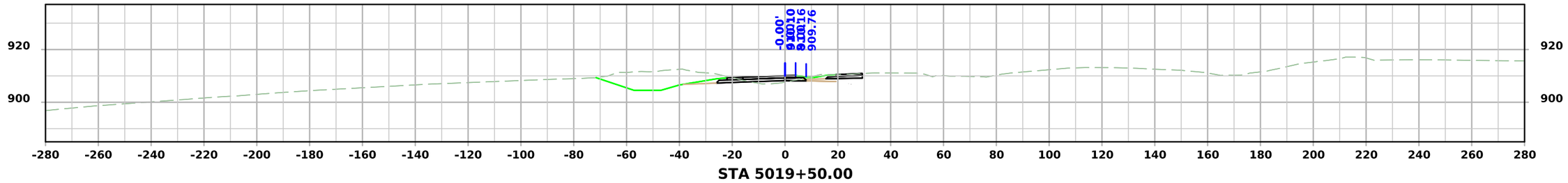


STA 5016+00.00

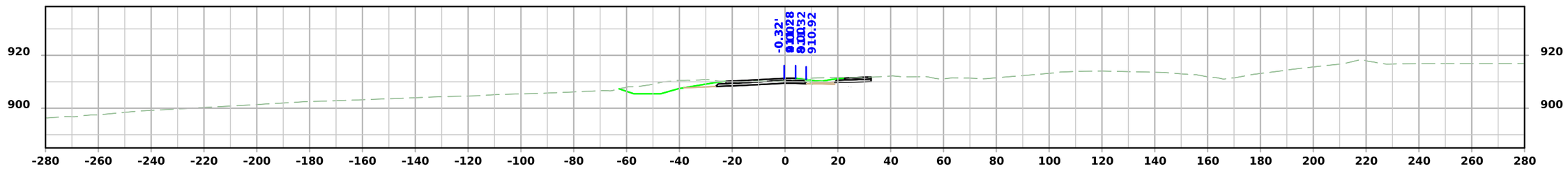
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.28

10:56:45 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y03.dgn

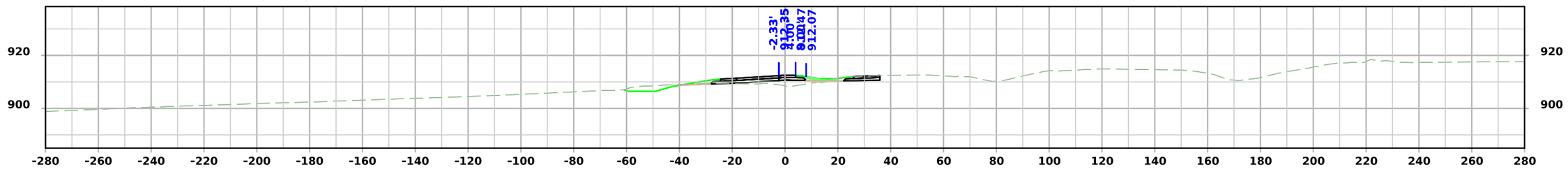
Ramp E



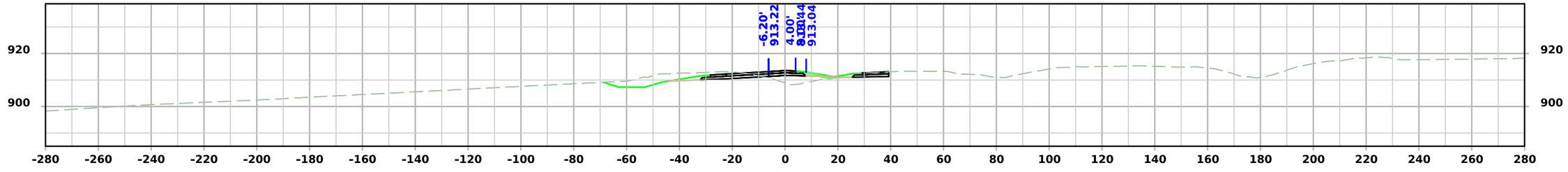
STA 5019+50.00



STA 5019+00.00



STA 5018+50.00

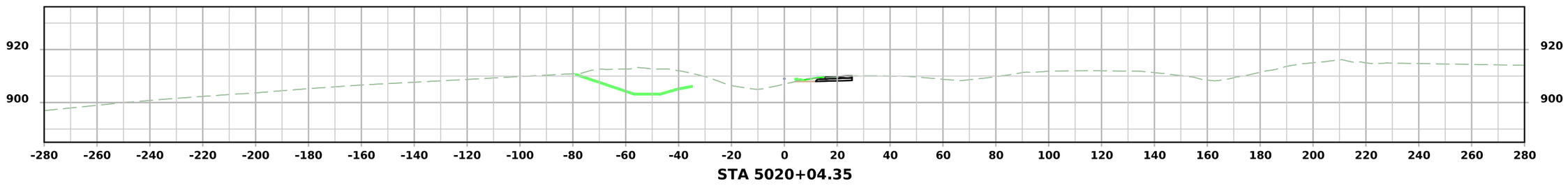


STA 5018+00.00

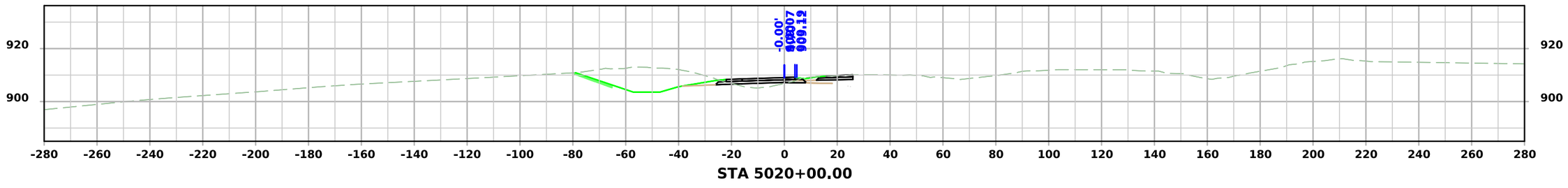
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.29

10:56:47 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y03.dgn

Ramp E



STA 5020+04.35

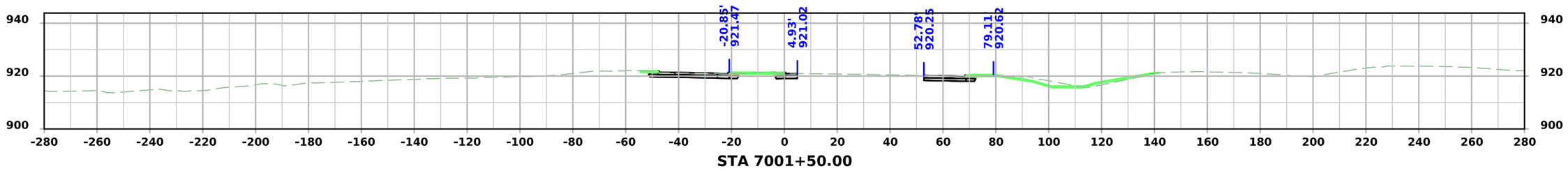


STA 5020+00.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.30

10:56:48 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y03.dgn

Ramp G



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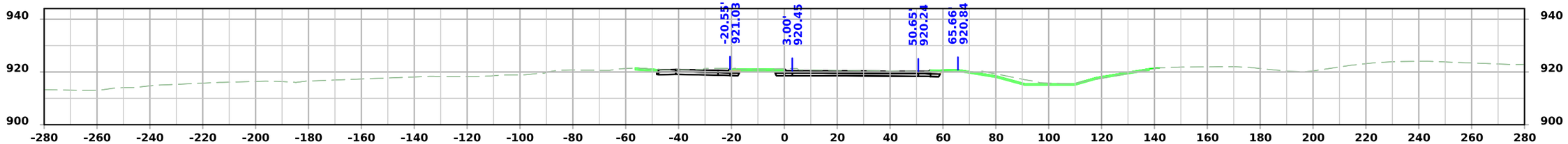
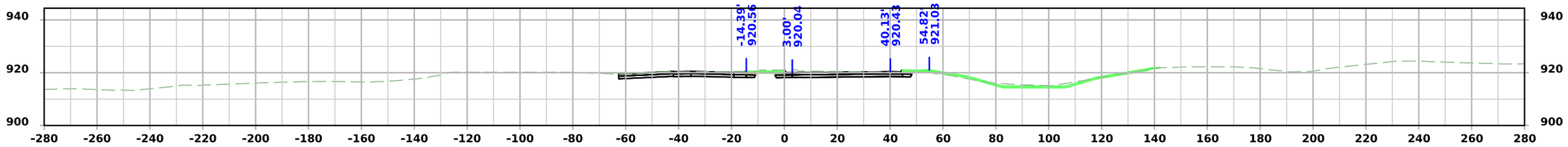
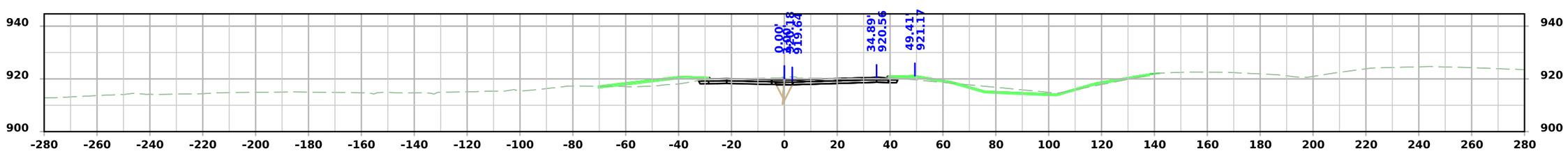


STA 7001+00.00



STA 7000+50.00

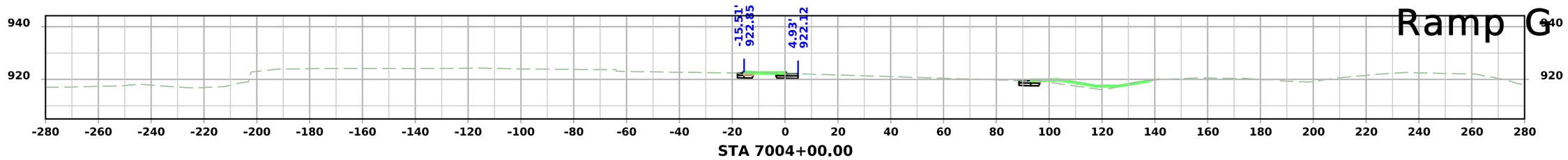


STA 7000+00.00

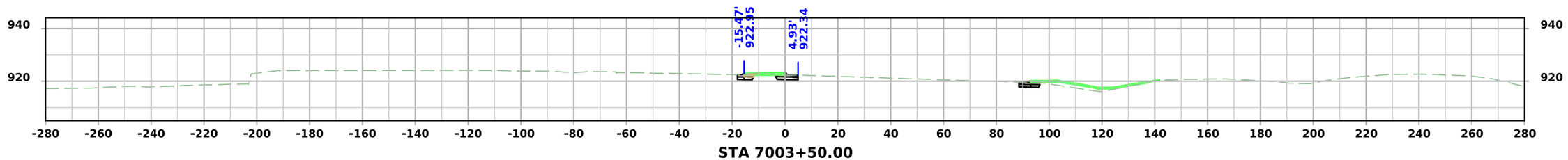
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.31

10:57:00 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y04.dgn

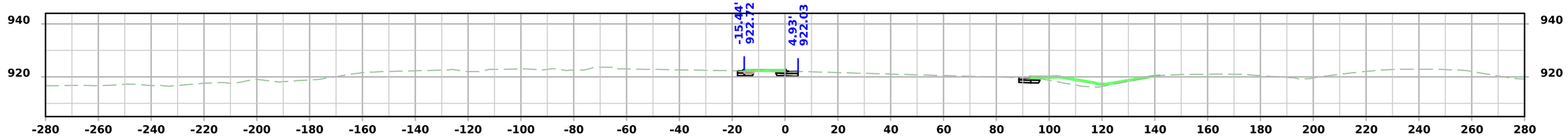
Ramp G



STA 7004+00.00



STA 7003+50.00



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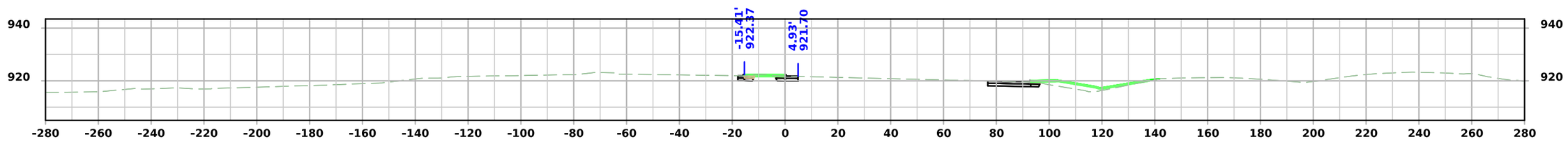
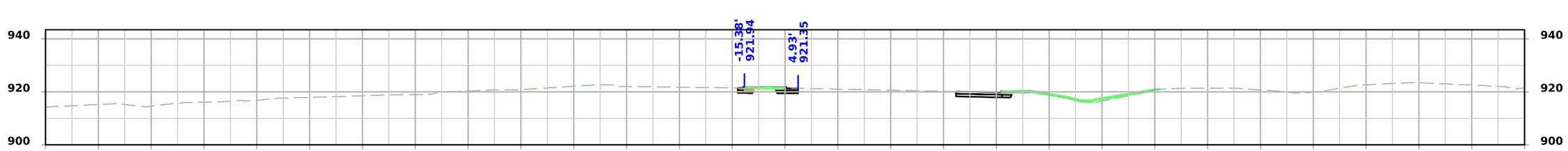


STA 7002+50.00

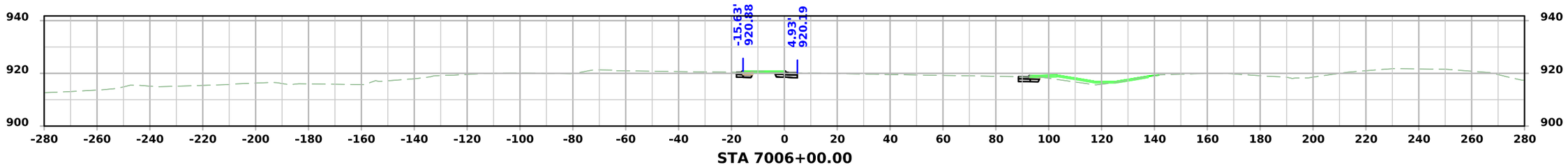


STA 7002+00.00

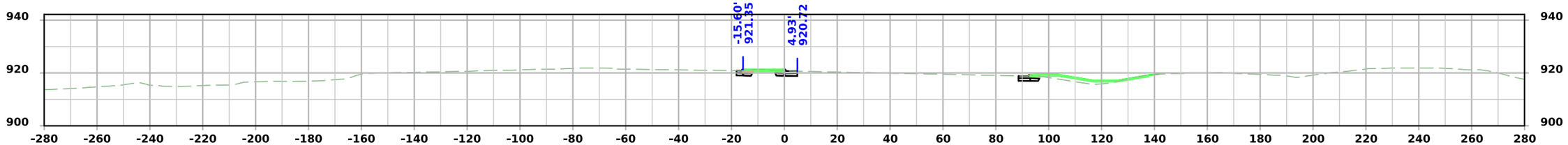
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.32

10:57:02 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y04.dgn

Ramp G



STA 7006+00.00



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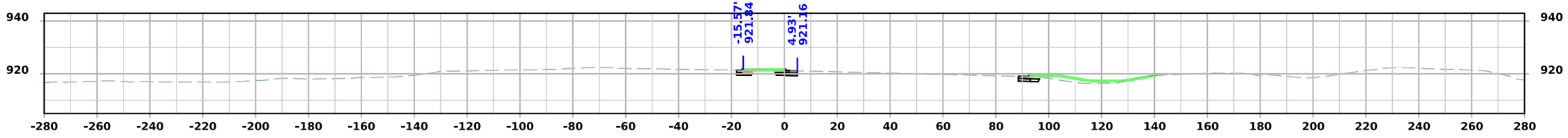
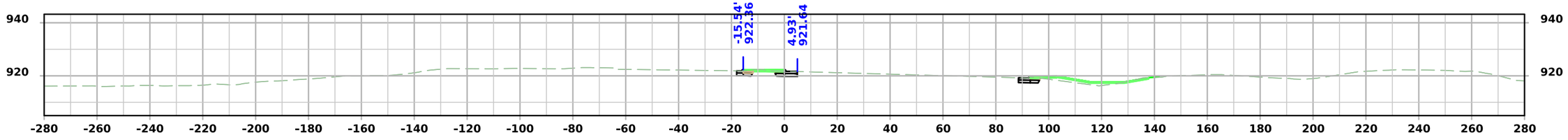


STA 7005+00.00

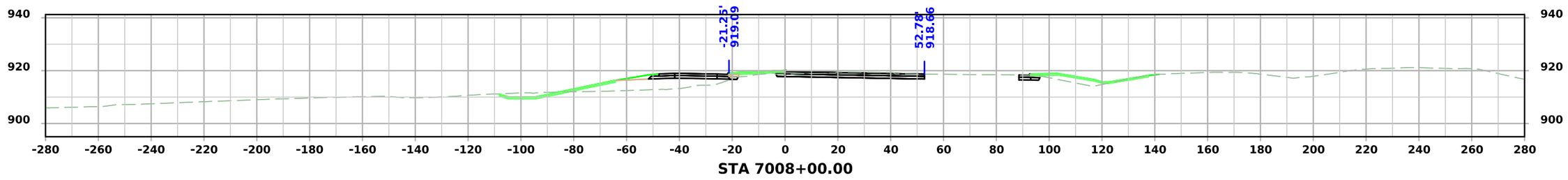


STA 7004+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.33	

10:57:04 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y04.dgn

Ramp G



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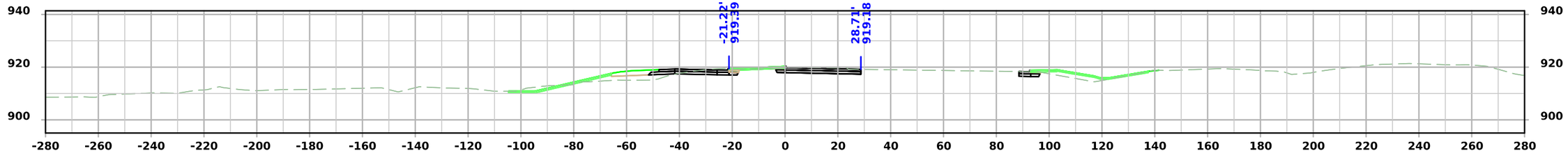
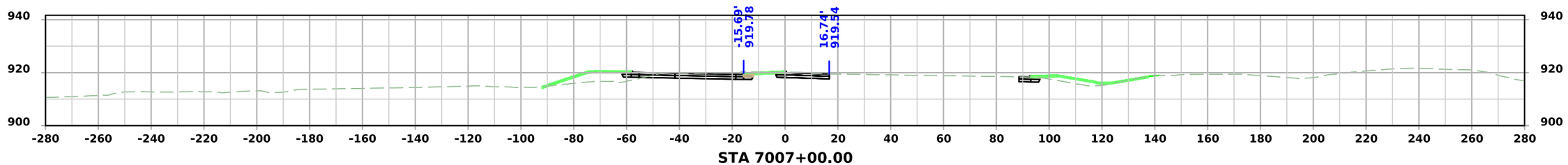
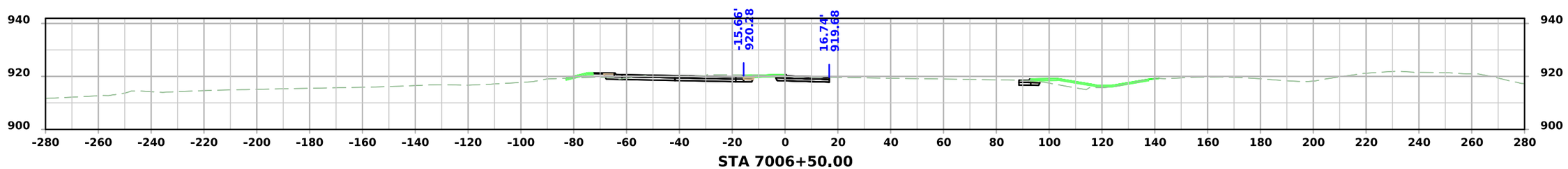


STA 7007+50.00



STA 7007+00.00



STA 7006+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.34

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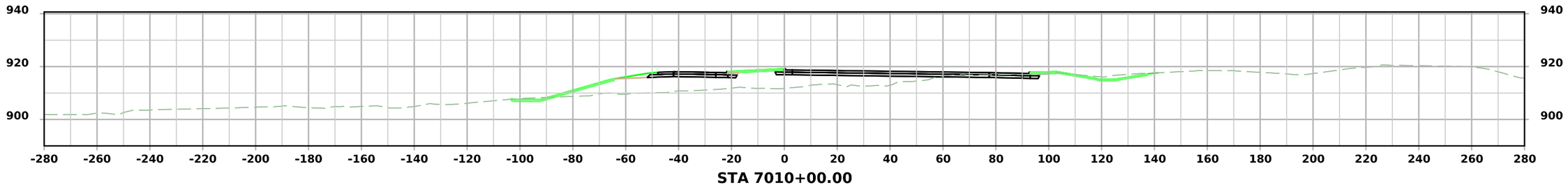
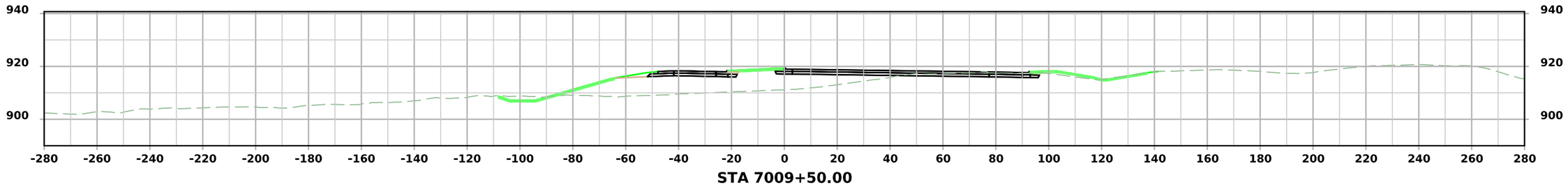
Ramp G



STA 7010+00.00



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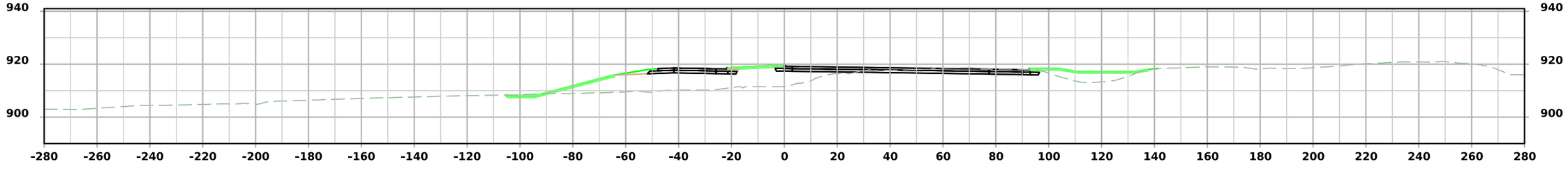

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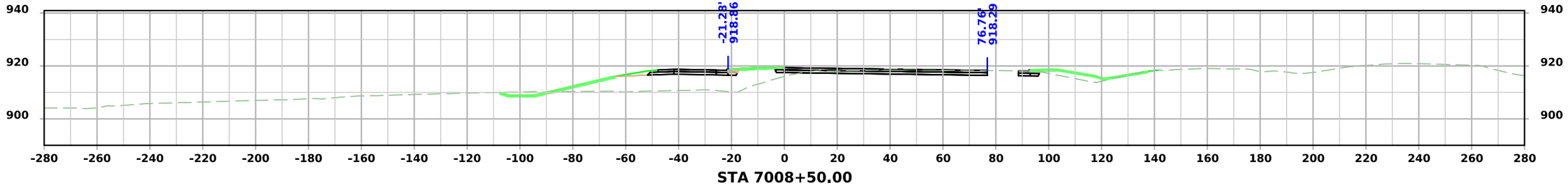

STA 7008+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.35

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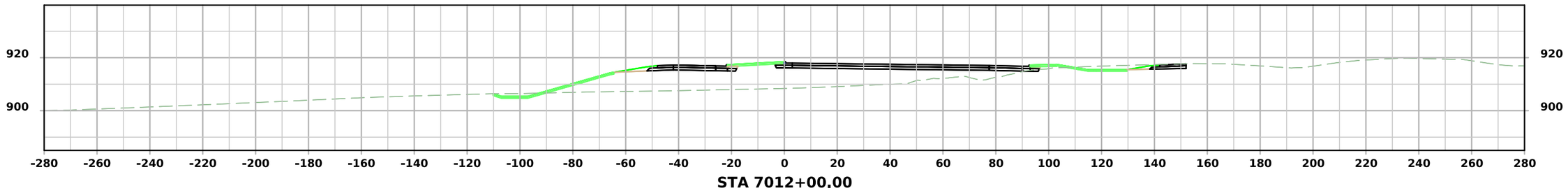
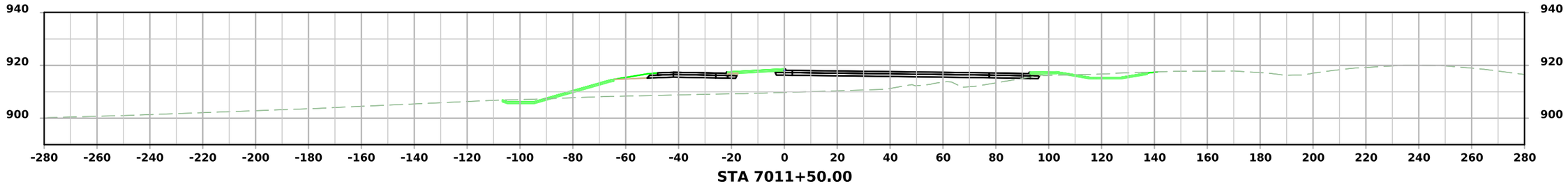
Ramp G



STA 7012+00.00



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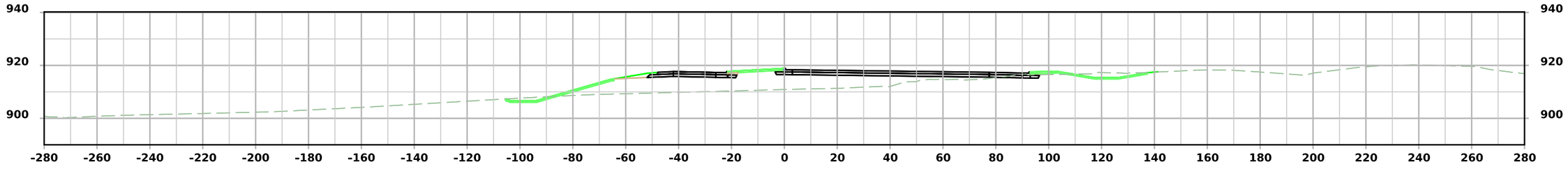

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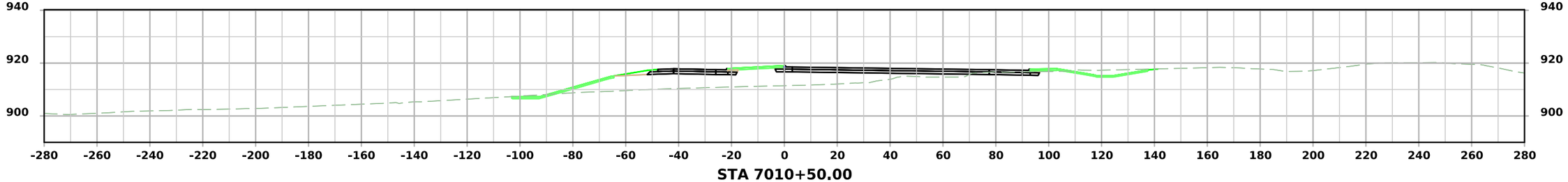
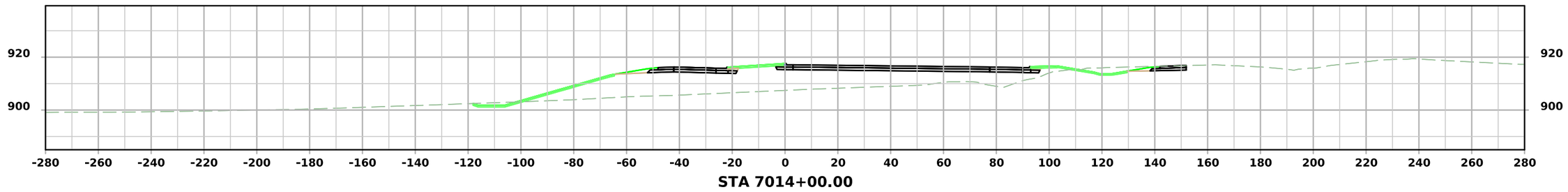


STA 7010+50.00

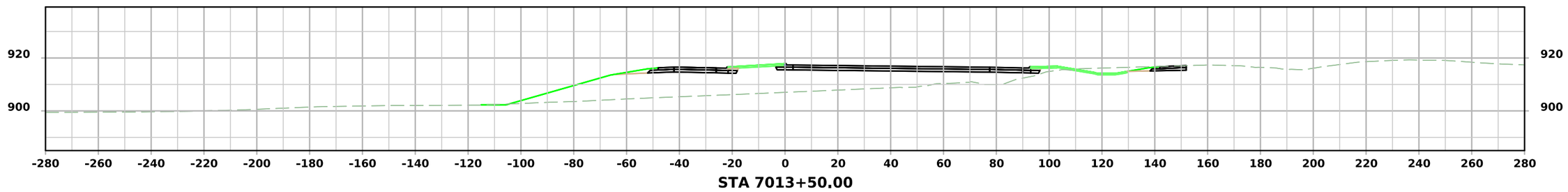
FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.36

10:57:09 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y04.dgn

Ramp G



STA 7014+00.00



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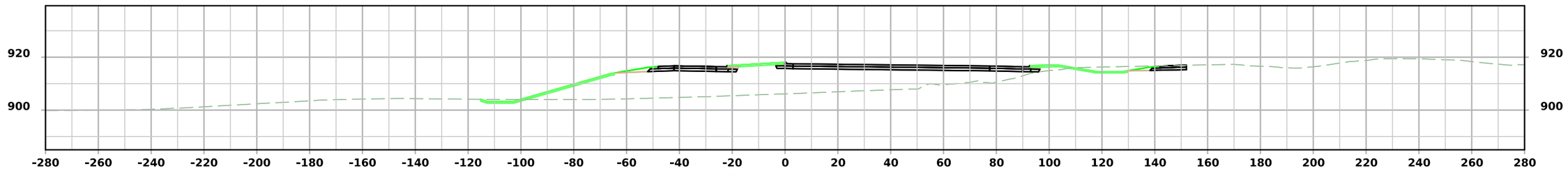

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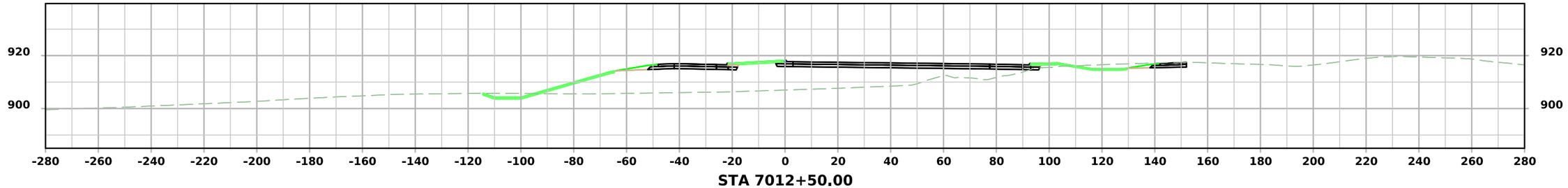
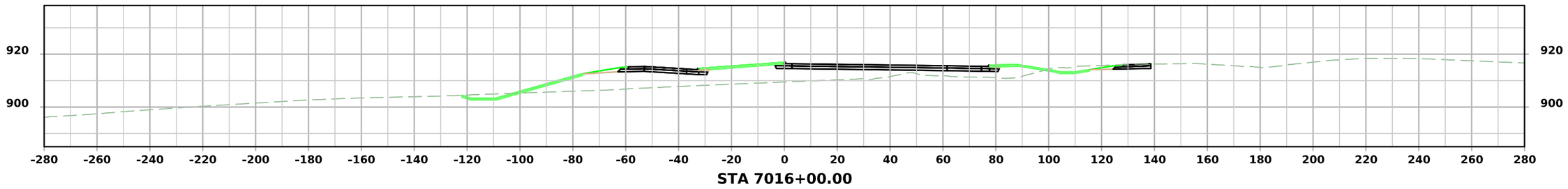


STA 7012+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.37

10:57:11 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y04.dgn

Ramp G



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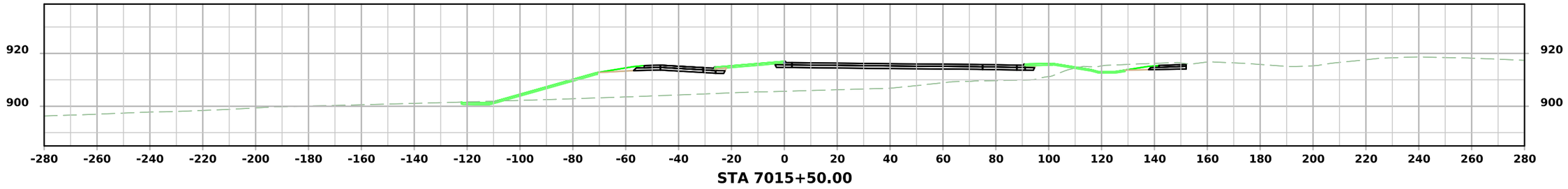

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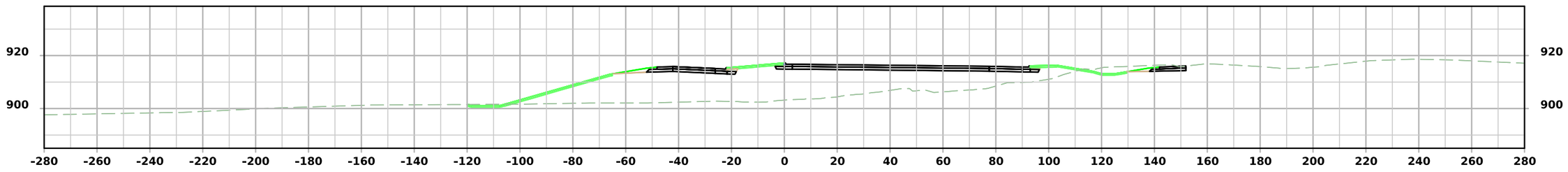

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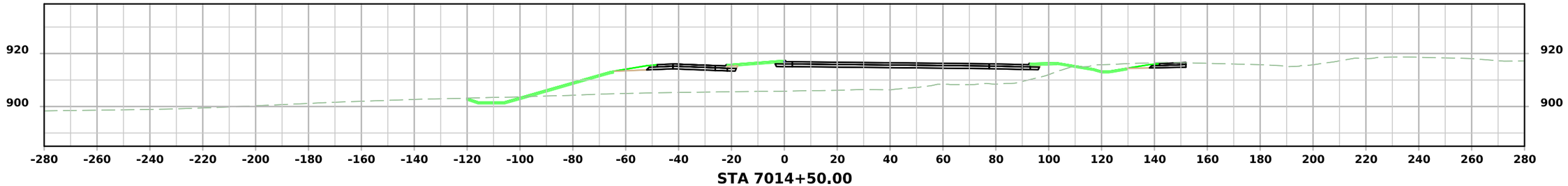

STA 7014+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.38

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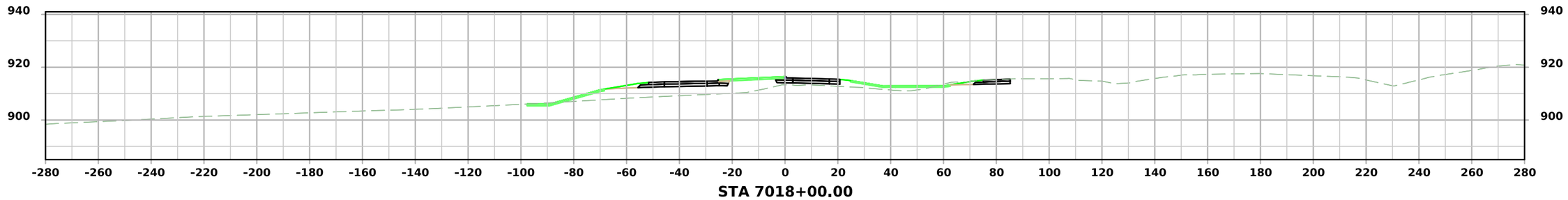
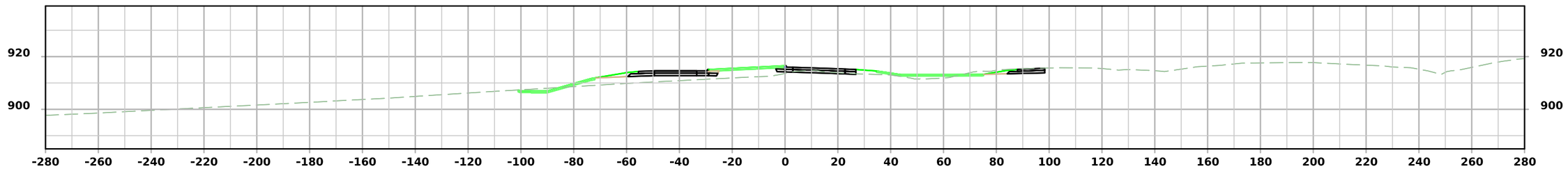
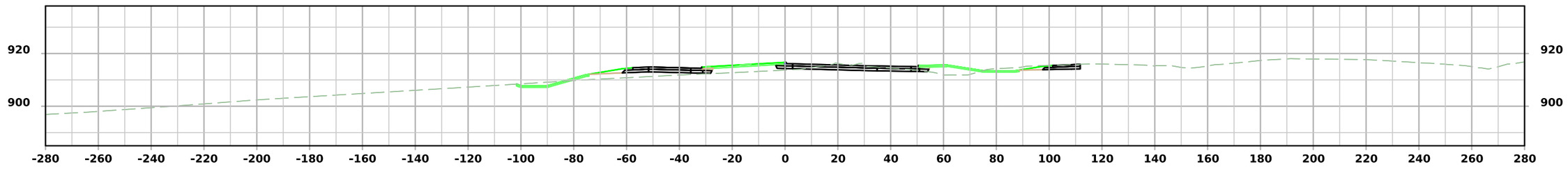
Ramp G



STA 7018+00.00



STA 7017+50.00



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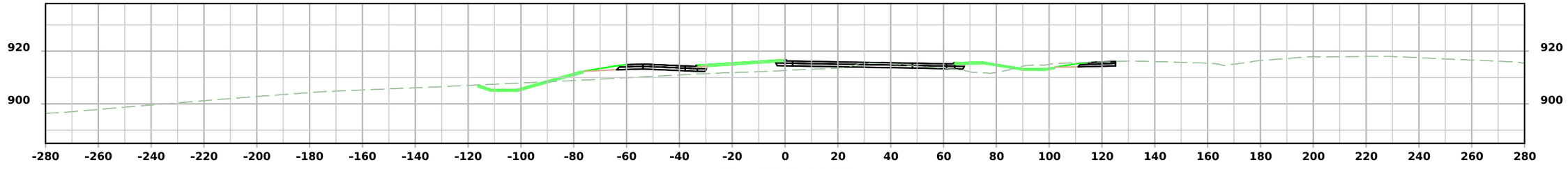

STA 7016+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.39

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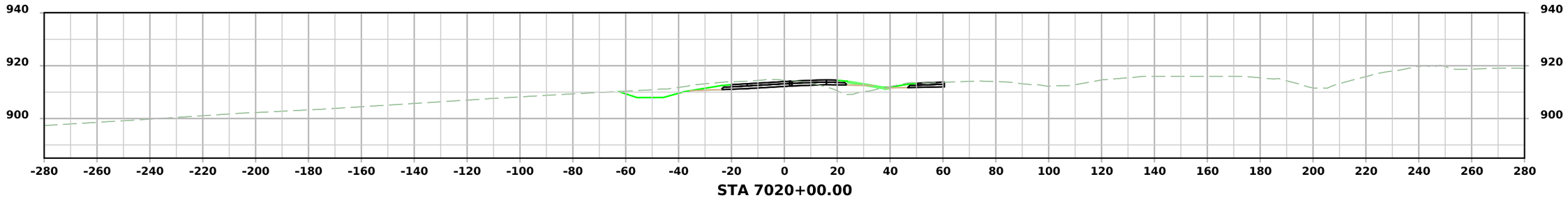
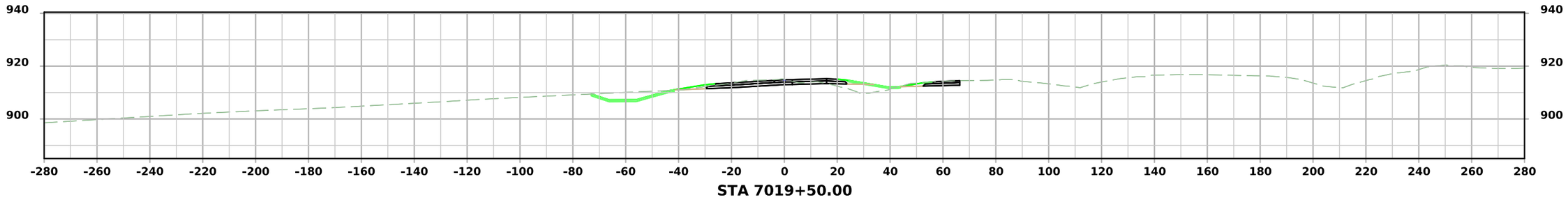
Ramp G



STA 7020+00.00



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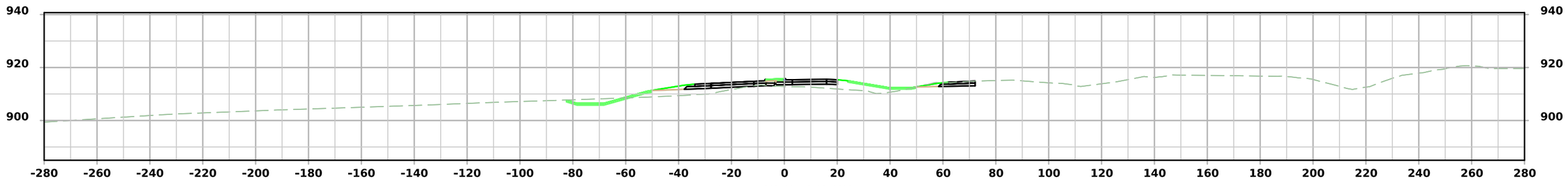

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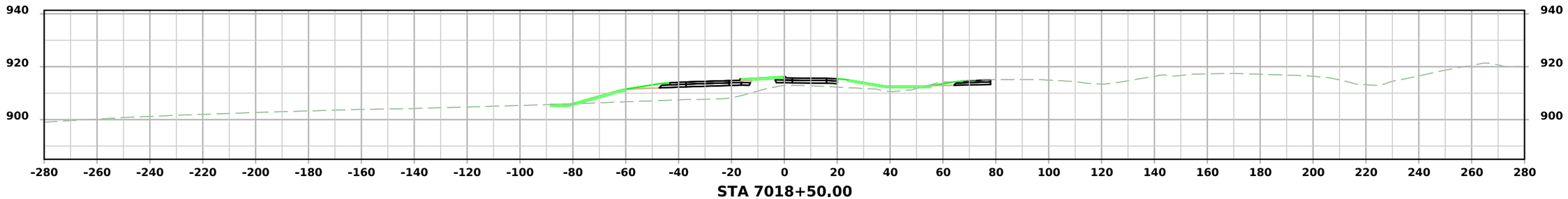
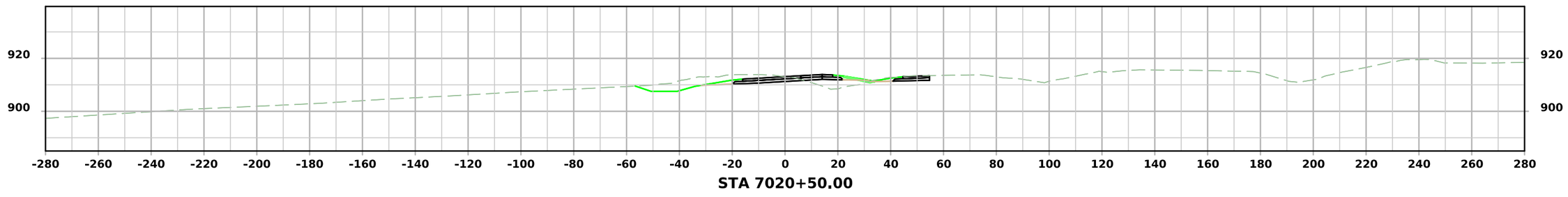


STA 7018+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.40

10:57:16 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y04.dgn

Ramp G



FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.41	

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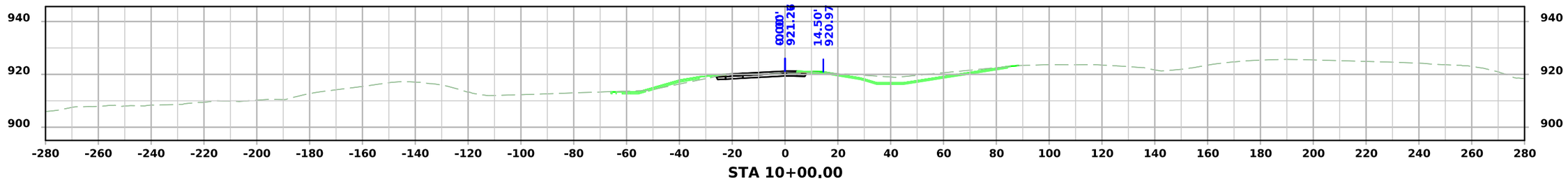
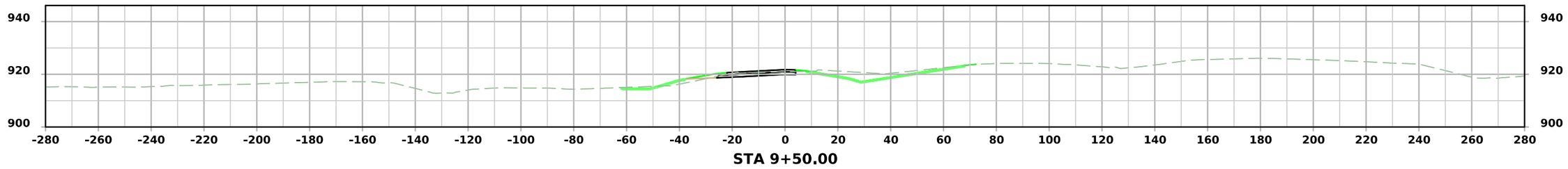
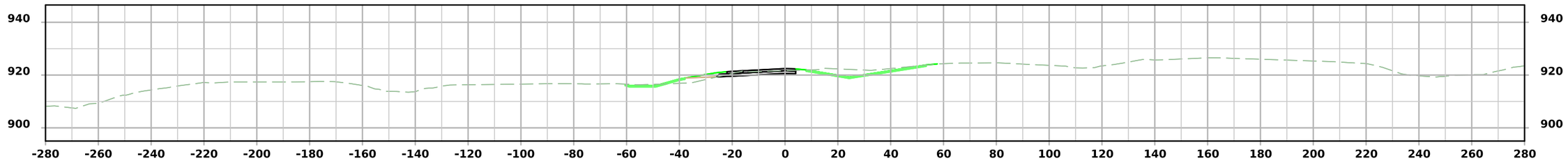
Ramp G Return



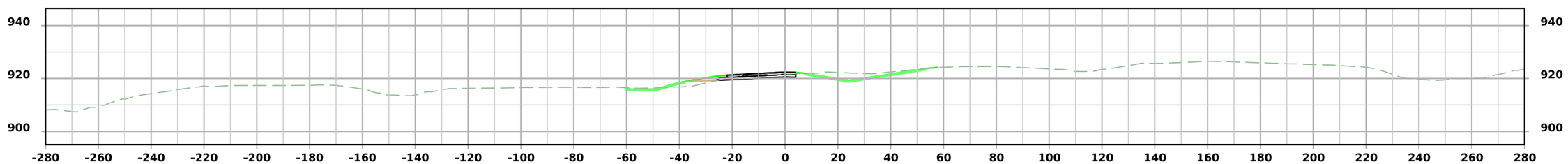
STA 10+00.00



STA 9+50.00



STA 9+00.00



STA 8+99.87

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.42

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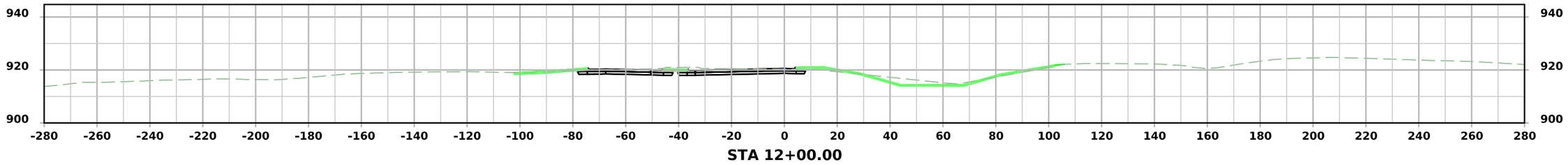
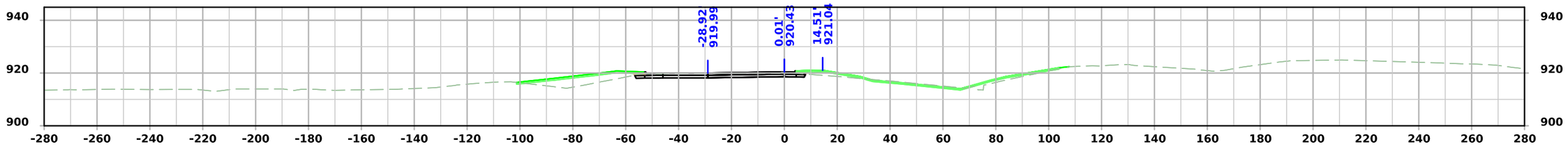
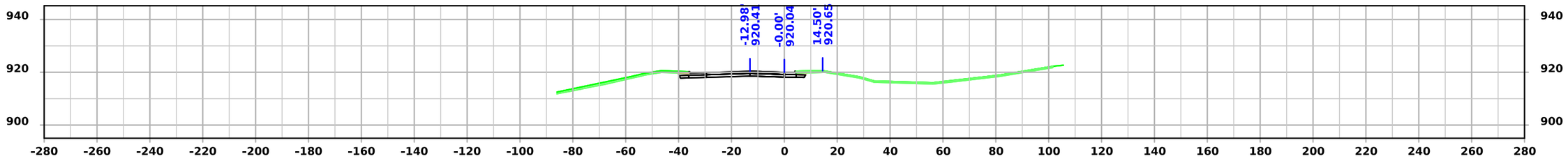
Ramp G Return



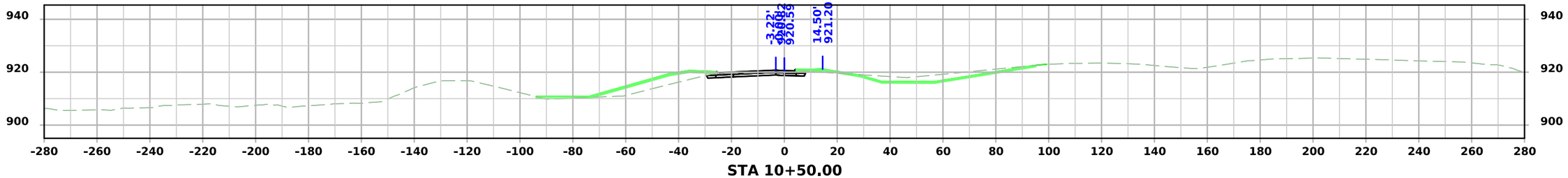
STA 12+00.00



STA 11+50.00



STA 11+00.00



STA 10+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.43

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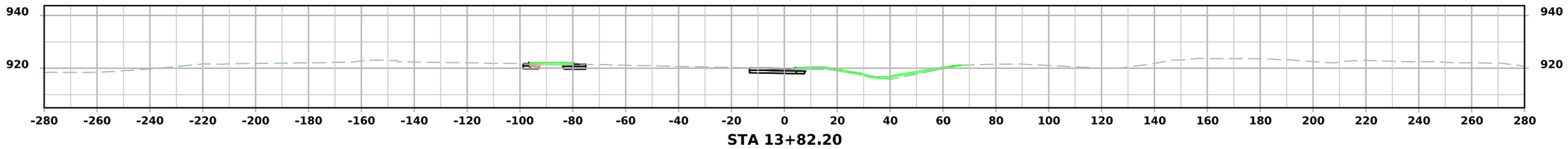
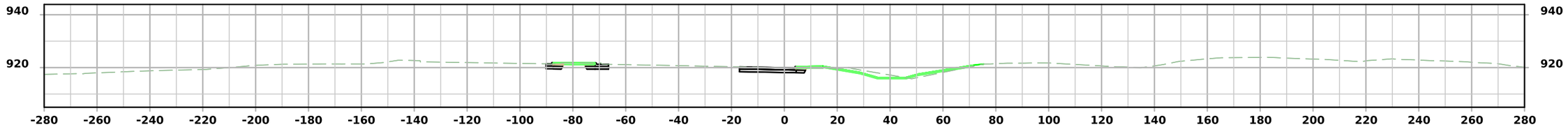
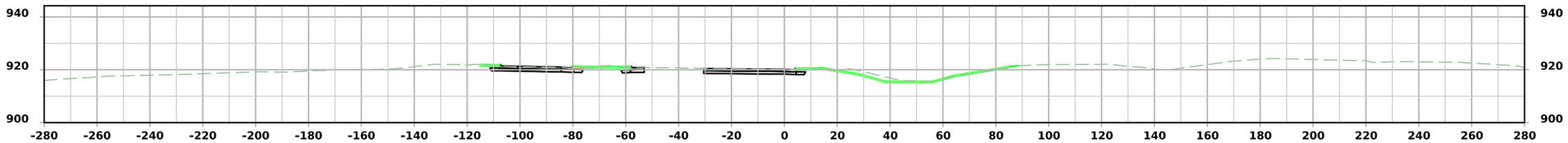
Ramp G Return



STA 13+82.20



STA 13+50.00



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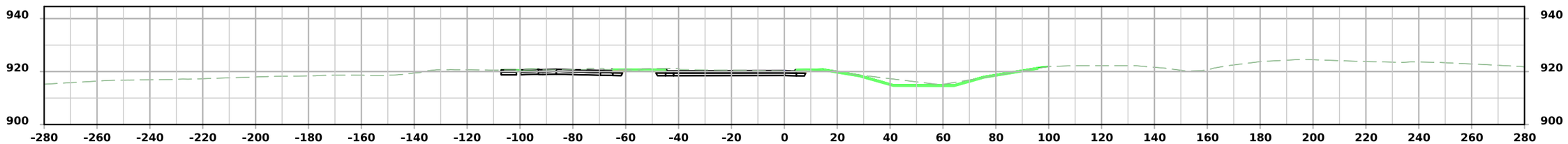

STA 12+50.00

FILE NO.	ENGLISH	DESIGN TEAM Snyder & Associates	Iowa COUNTY	PROJECT NUMBER IMX-080-6(536)208--02-48	SHEET NUMBER Y.44

10:57:33 PM 9/17/2024 bjohnson pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\4808007022\Design\CADD_Files\Sheet_Files\SHT_48080536Z10_Y05.dgn