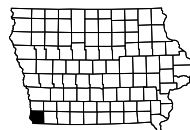


FREMONT COUNTY

Unknown Pavement - Grade and Replace
STP-333-1(030)--2C-36

LETTING DATE
Feb. 21, 2023



INDEX OF SHEETS	
No.	DESCRIPTION
A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1 - 3	Typical Cross Sections and Details
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 3	IA 333
E Sheets	Side Road Plan and Profile Sheets
* E.1	274th Ave
G Sheets	Survey Sheets
G.1 - 3	Reference Ties and Bench Marks
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
W Sheets	Mainline Cross Sections
* W.1 - 15	IA 333
X Sheets	Side Road Cross Sections
* X.1 - 2	274th Ave
	* Color Plan Sheets



PLANS OF PROPOSED IMPROVEMENT ON THE
PRIMARY ROAD SYSTEM
FREMONT COUNTY
Unknown Pavement - Grade and Replace
BNSF RR to 0.6 mi E of I-29

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

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



REVISIONS

TOTAL
30
PROJECT IDENTIFICATION NUMBER
22-36-333-010
PROJECT NUMBER
STP-333-1(030)--2C-36
R.O.W. PROJECT NUMBER
STPN-333-1(031)--2J-36

DESIGN DATA RURAL

2019	AADT	1460	V.P.D.
20 --	AADT	--	V.P.D.
20 --	DHV	--	V.P.H.
TRUCKS		11.1	%
Total			
Design	ESALs	--	

INDEX OF SEALS

	Paul W. Flattery	

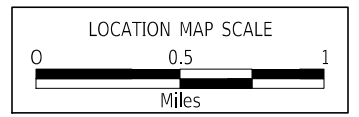
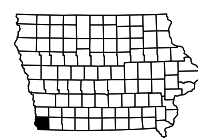
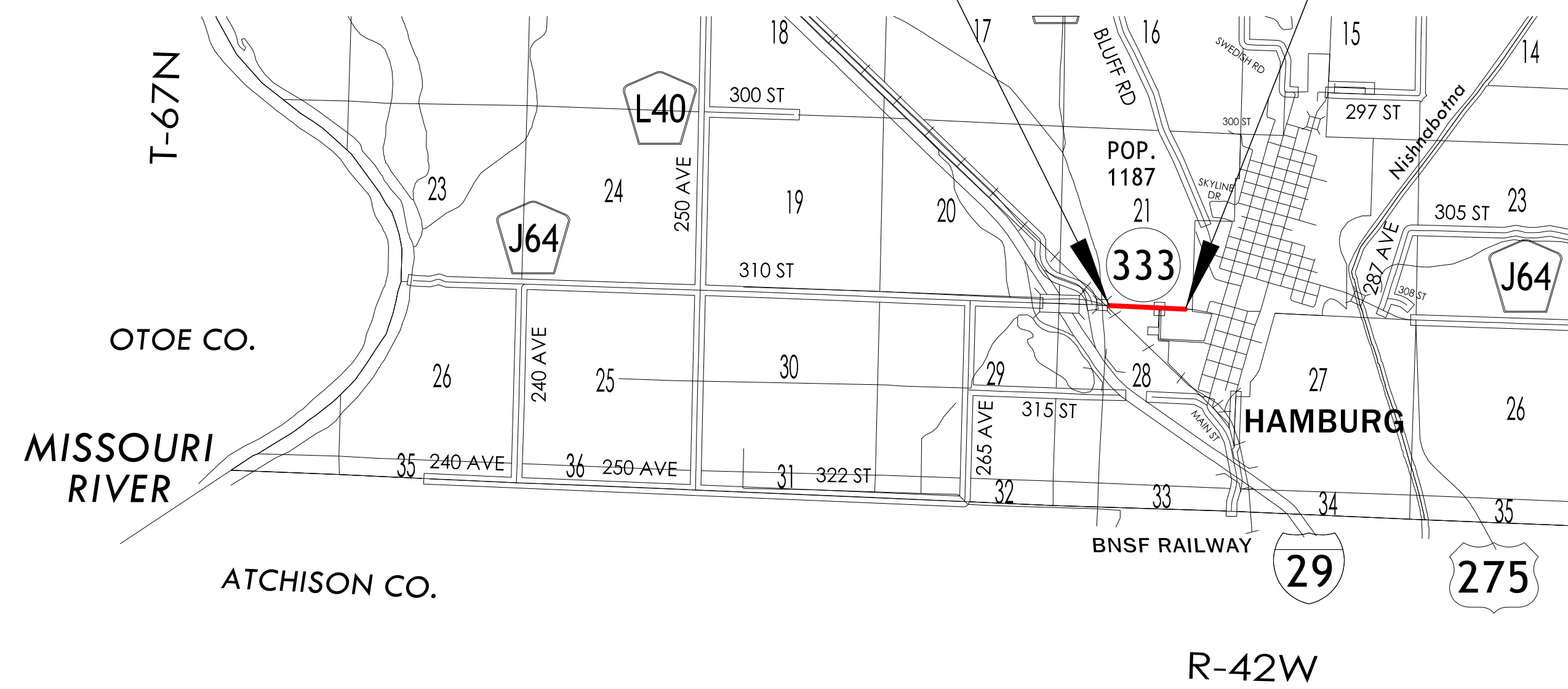
PRELIMINARY PLANS

Subject to change by final design.

D3 PLAN - Date: Mar 17, 2022

BEGIN CONSTRUCTION
MP 0.40

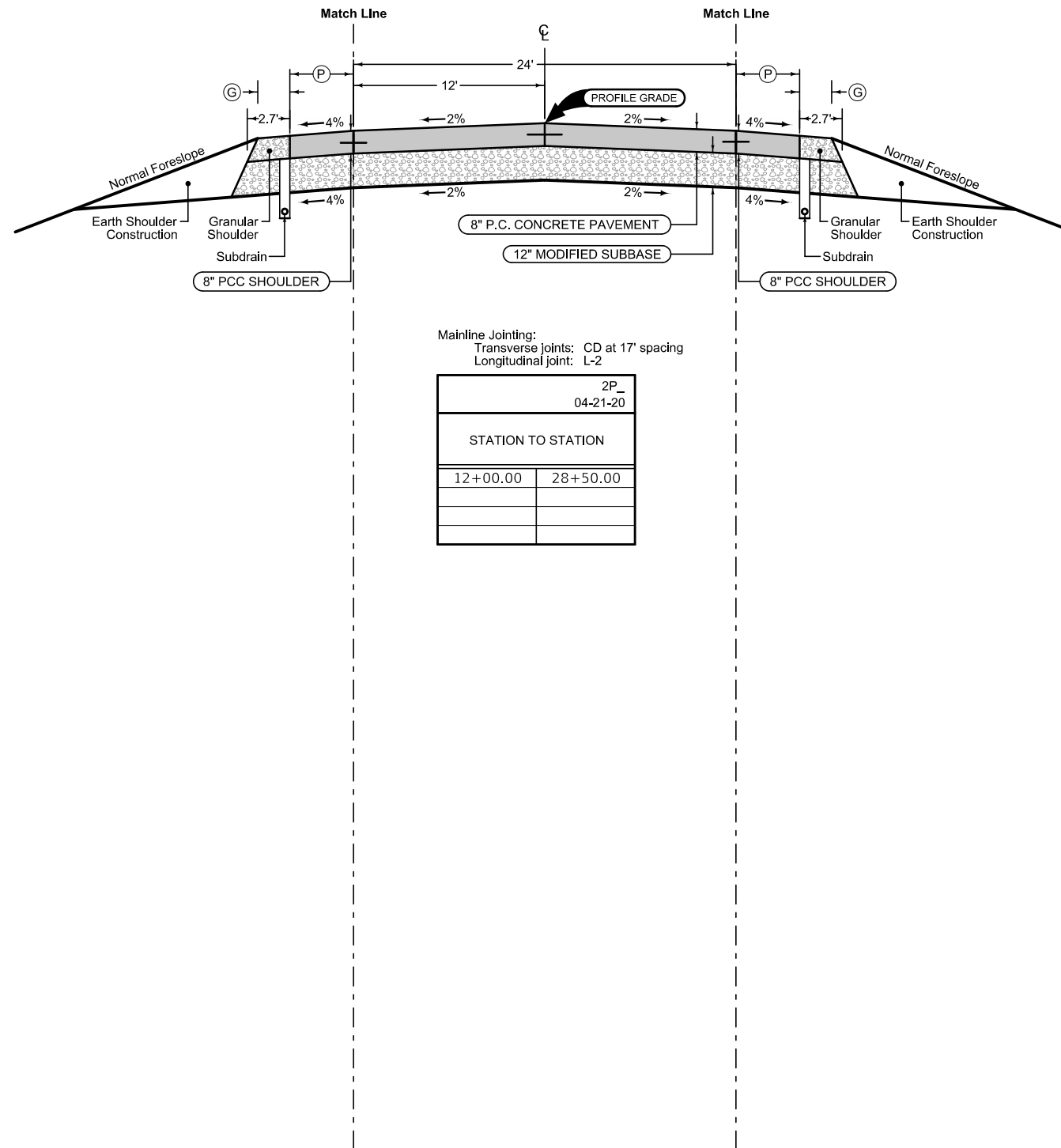
END CONSTRUCTION
MP 0.83



Full Depth PCC Combination Shoulder

Shoulder Jointing:
 Longitudinal joint: L-2 or KT-2
 Transverse joints: C at 17' spacing

2_C_FullPCC_04-21-20			
STATION TO STATION		(P) Feet	(G) Feet
12+00.00	28+50.00	4	2



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

2P_04-21-20	
STATION TO STATION	
12+00.00	28+50.00

Full Depth PCC Combination Shoulder

Shoulder Jointing:
 Longitudinal joint: L-2 or KT-2
 Transverse joints: C at 17' spacing

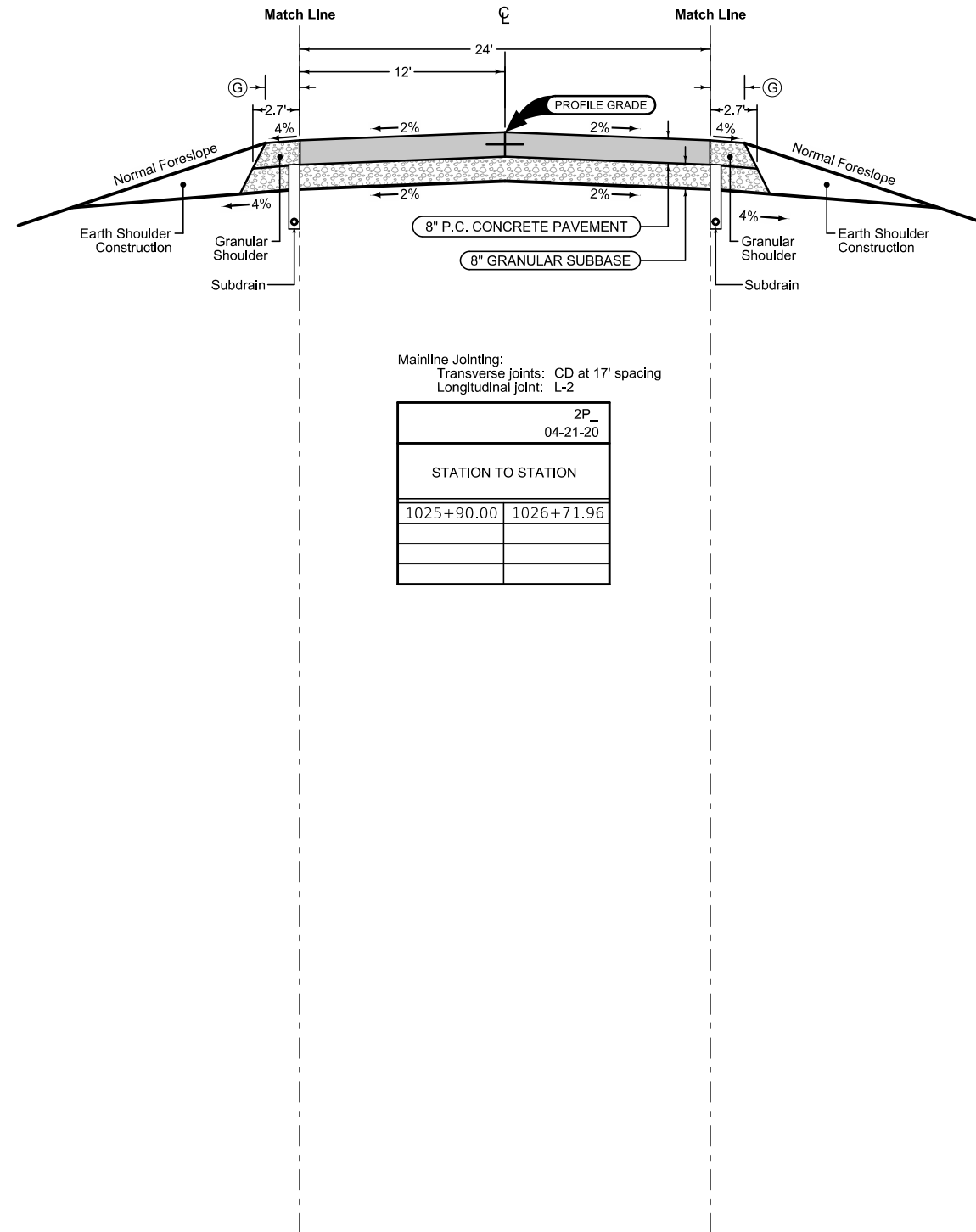
2_C_FullPCC_04-21-20			
STATION TO STATION		(P) Feet	(G) Feet
12+00.00	28+50.00	4	2

See Tab 100-24 or 100-25 for pavement quantities.
 See Tab 112-9 for shoulder quantities.

Iowa Highway 333

Granular Shoulder

2_G_SR_ 04-21-20		
STATION TO STATION		Ⓞ Feet
1025+90.00	1026+71.96	1-6



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

2P_ 04-21-20		
STATION TO STATION		
1025+90.00	1026+71.96	

Granular Shoulder

2_G_SR_ 04-21-20		
STATION TO STATION		Ⓞ Feet
1025+90.00	1026+71.96	2-6

See Tab 100-24 or 100-25 for pavement quantities.
 See Tab 112-9 for shoulder quantities.

274th Avenue

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
- Water Hydrant (Rural)
- Septic Tank
- Cistern
- L.P. Gas Tank (No Footing)
- Underground Storage Tank
- Latrine
- Satellite TV Dish
- Water Hook Up
- Radio Tower
- Tower Anchor
- Guardrail (Beam or Cable)
- Guard Post (one or two)
- Guard Post (over two)
- Filler Pipe
- Gas Valve
- Water Valve
- Speed Limit Sign
- Mile Marker Post
- Sign
- Traffic Signal Control Box
- Rail Road Signal Control Box
- Telephone Switch Box
- Electric Box

UTILITY LEGEND

SURVEYED UTILITY OWNER SYMBOLS

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

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

- FOID, Fiber Optic CenturyLink - Quality D
- GLID, Gas Line Black Hills Energy - Quality D
- PPA, Power Pole MidAmerican Electric

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
Yellow	(68)		Proposed Shoulder, Paved Full Depth
Yellow	(132)		Proposed Shoulder, Paved Partial Depth
Orange	(70)		Proposed Shoulder, Granular
Yellow	(220)		Proposed Entrance, Paved
Orange	(134)		Proposed Entrance, Granular
Red	(3)		Proposed Structures

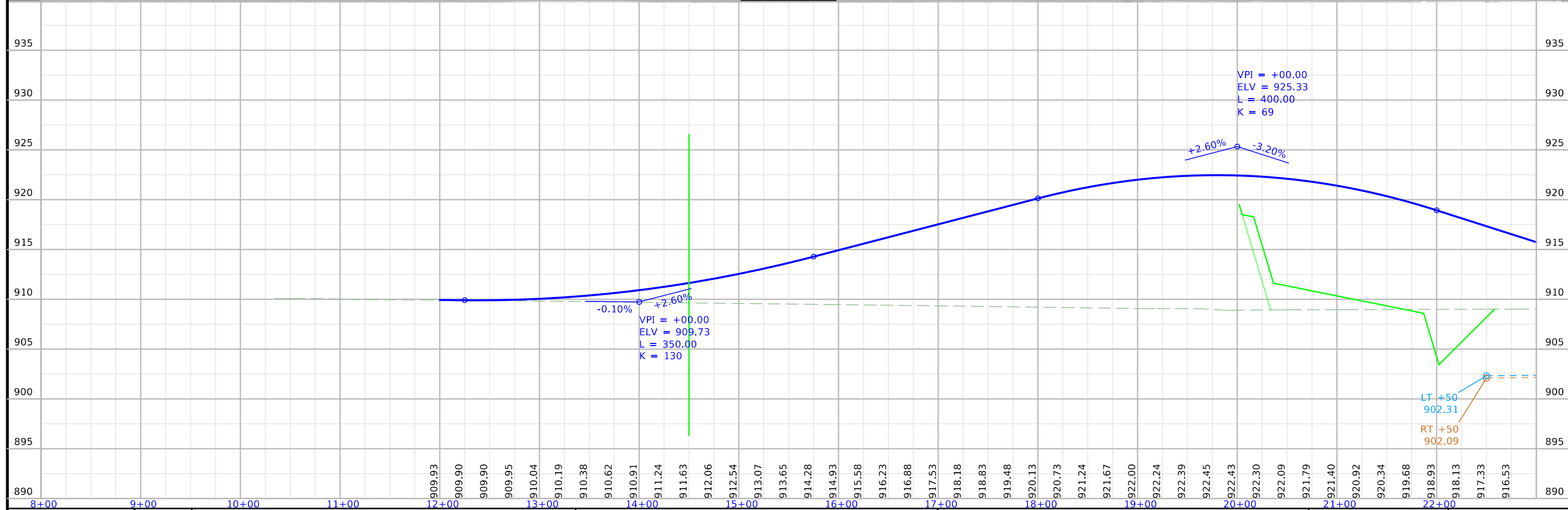
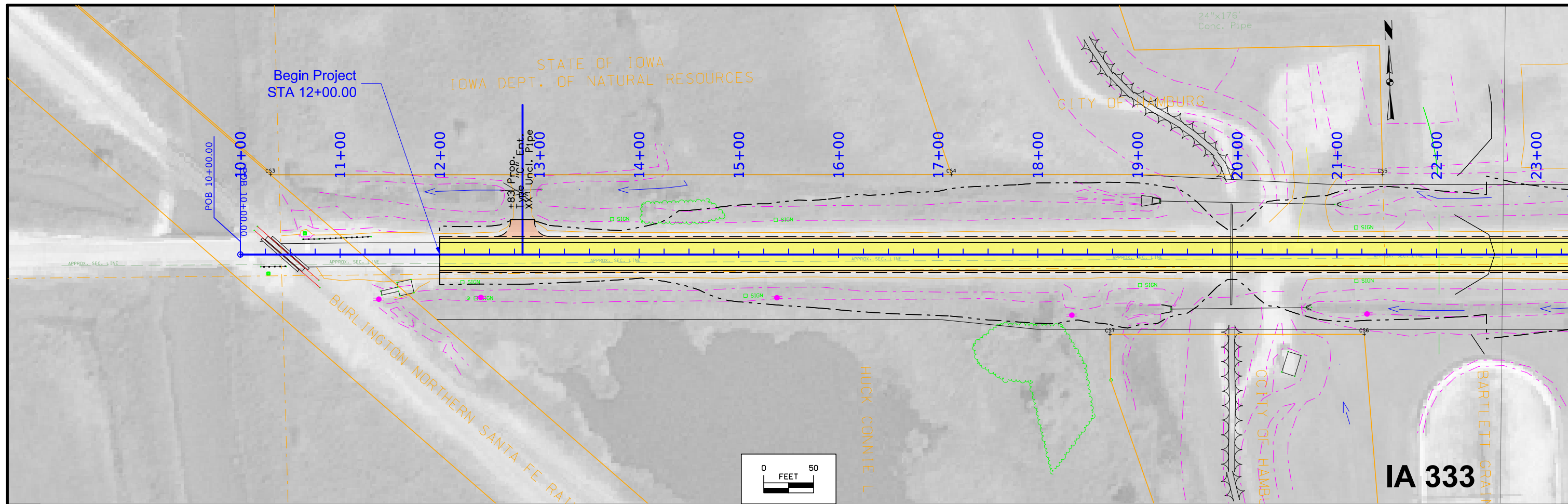
PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK		Design Color No.	
Green	(2)		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

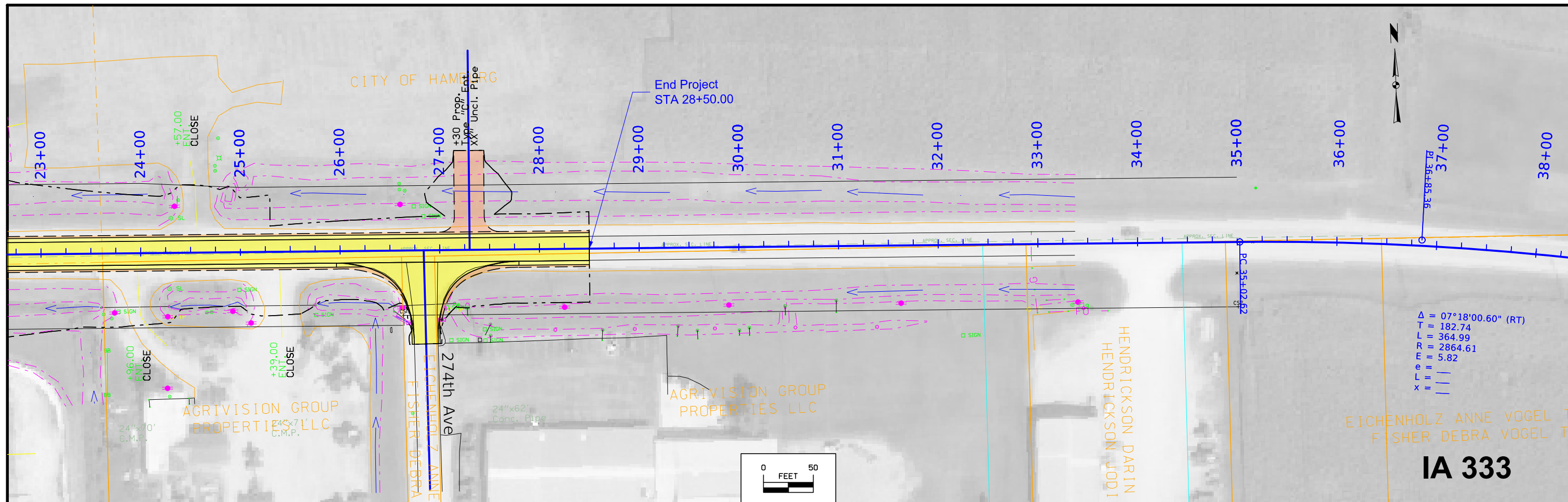
- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile

RIGHT-OF-WAY LEGEND

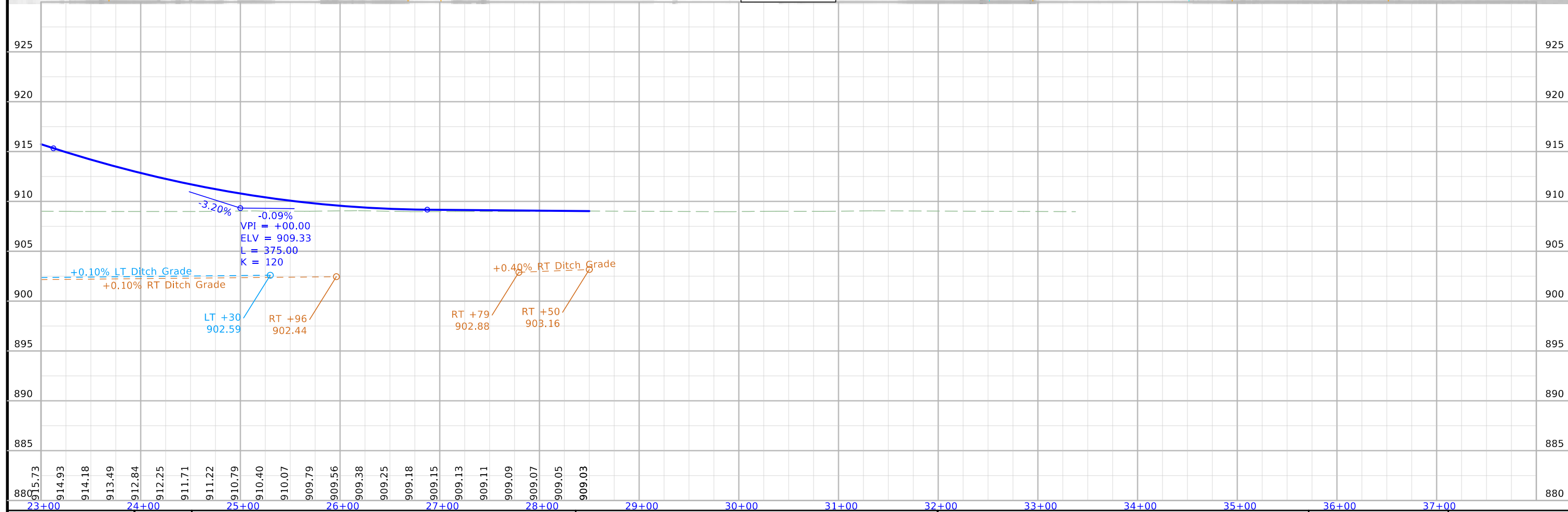
- Proposed Right-of-Way
- Existing Right of Way
- Existing and Proposed Right-of-Way
- Easement and Existing Right-of-Way
- Easement (Temporary)
- Easement
- Access Control
- Property Line



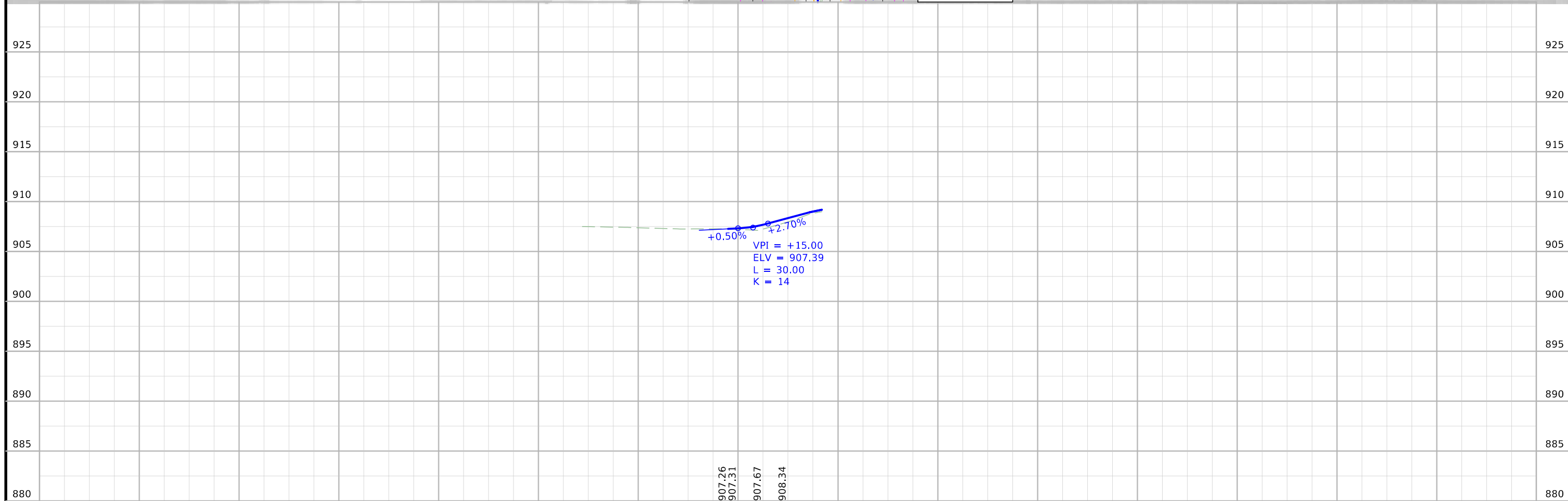
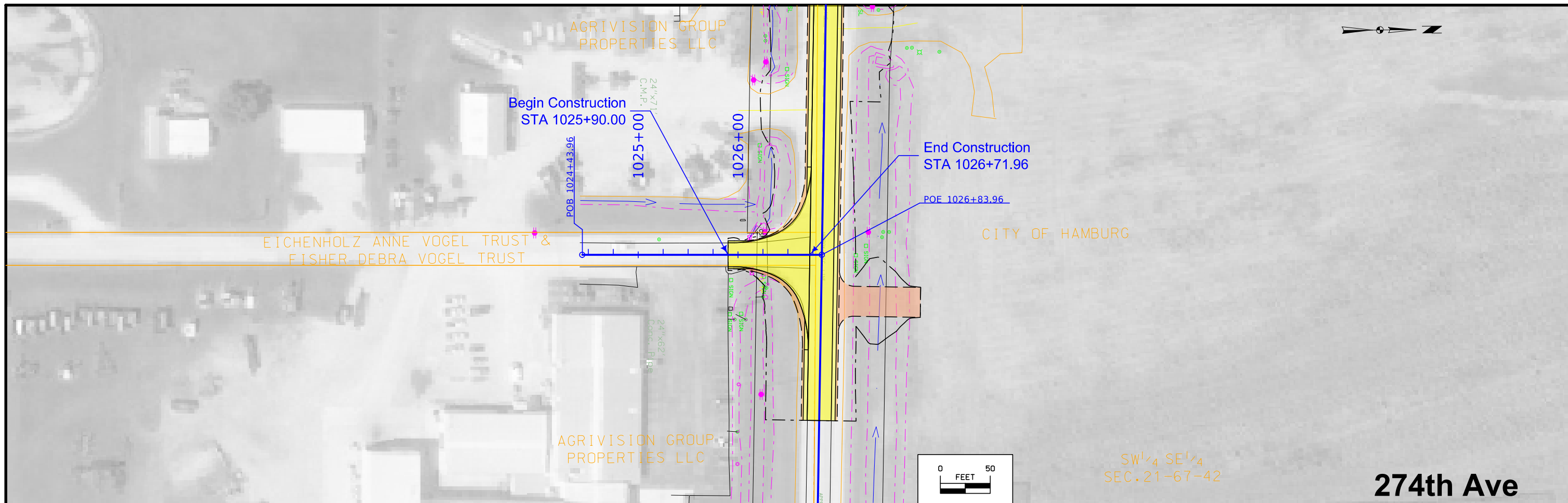
FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Crystal	FREMONT COUNTY	PROJECT NUMBER STP-333-1(030)--2C-36	SHEET NUMBER D.2
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$\Delta = 07^{\circ}18'00.60''$ (RT)
 $T = 182.74$
 $L = 364.99$
 $R = 2864.61$
 $E = 5.82$
 $e =$
 $f =$
 $x =$



FILE NO.	ENGLISH	DESIGN TEAM	Fremont County	PROJECT NUMBER	STP-333-1(030)--2C-36	SHEET NUMBER	D.3
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FILE NO.	ENGLISH	DESIGN TEAM Flattery \ Crystal	FREMONT COUNTY	PROJECT NUMBER STP-333-1(030)--2C-36	SHEET NUMBER E.1
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Survey Information

SURVEY INDEX

County: Fremont
PIN: 22-36-333-010
Project Number: STP-333-1(30)—2C-36
Location: BNSF RR to 0.6 mi E of I-29
Type of Work: Grade and Pavement- Unspecified
Project Directory: 3633301022

Alignment Information

Alignment was provided by the District 4 ROW office

Utility Information

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

Survey Personnel

Paul Harry – Survey Party Chief
Scott Liddell – Survey Party Chief
Brett Lausen – Assistant Survey Party Chief

Date(s) of Survey

Begin Date 10/18/2021
End Date 11/08/2021

General Information

Measurement units for this survey are US survey feet. This survey is for Hwy 333 at the city of Hamburg levee system.

Project Control

(RTN Example)
Nearby Iowa Real Time Network reference stations were utilized to obtain horizontal and vertical control on primary project control points. Two or more five-minute observations were taken with appropriate time spans 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) EPOCH 2010.00
VERTICAL DATUM: NAVD88
COORDINATE SYSTEM: IOWA REGIONAL COORDINATE SYSTEM ZONE 6
GEOID MODEL: 2012bu2

D

CONTROL POINT VICINITY MAP

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



HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 06

Coordinate listing from next sheet will be used with 1aRTN for monument recovery. No other reference ties are given.

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING

HORIZ. DATUM: NAD83(2011) EPOCH 2010.00

VERT. DATUM: NAVD88

1a. Regional Coordinate System Zone 06
Project Control Marks are Bench Marks

Point Name	Northing	Easting	Elevation	Feature Definition-Description
HAM2	6731388.421	16512874.37	908.284	CP FD NGS MON 1.0 MILES NW ALONG RR RD FROM THE INTERSECTION OF RR RD AND HWY 333 MONUMENT IS 42FT SW OF CL RR RD AND 38FT NE OF CL RR TRACKS
27B	6727795.404	16515152.65	931.84	FENO FD FENO MONUMENT 290FT W OF THE INTERSECTION OF I-29 AND HWY 333 MONUMENT IS 107FT W OF NW COR BRG 25FT N OF CL 333 AND 4FT N OF WITNESS POST
36333008	6727752.983	16519267.35	905.121	CP FD IP WITH RED PLASTIC CAP 0.1 MILES W ALONG HWY 333 FROM THE INTERSECTION OF HWY 333 AND A ST IN HAMBURG MONUMENT IS 54FT N OF CL 333 AND 87 FT N OF STATION MARKER 35

NOTE:

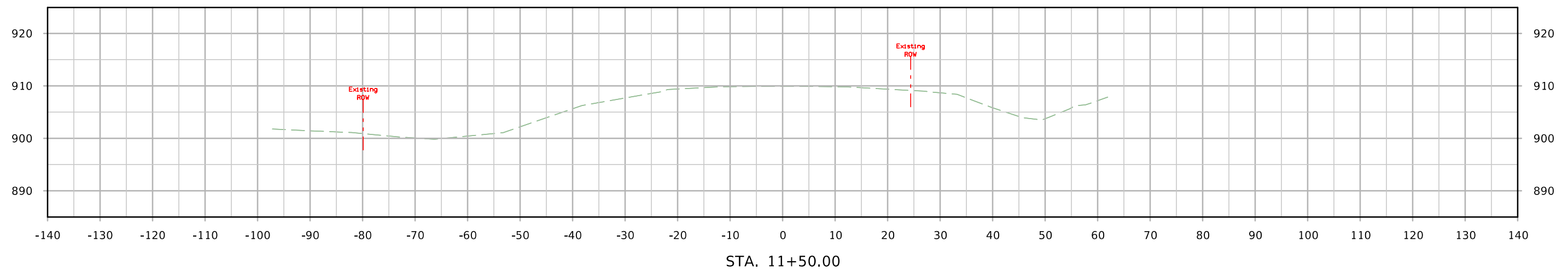
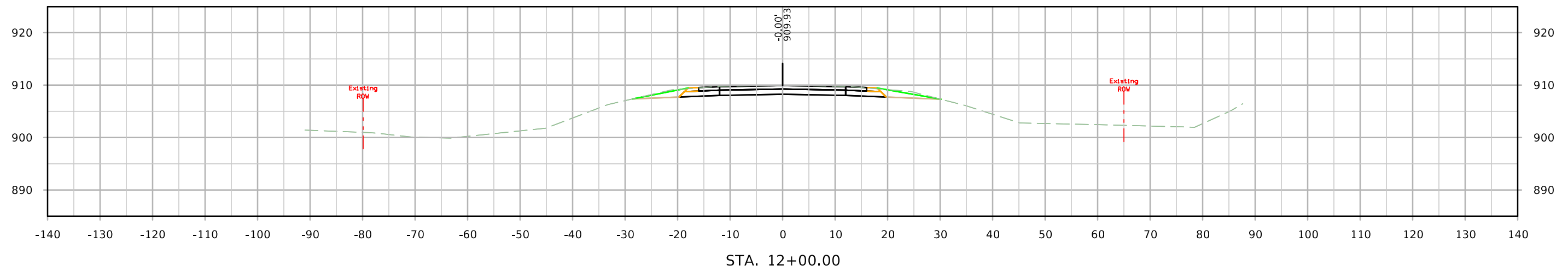
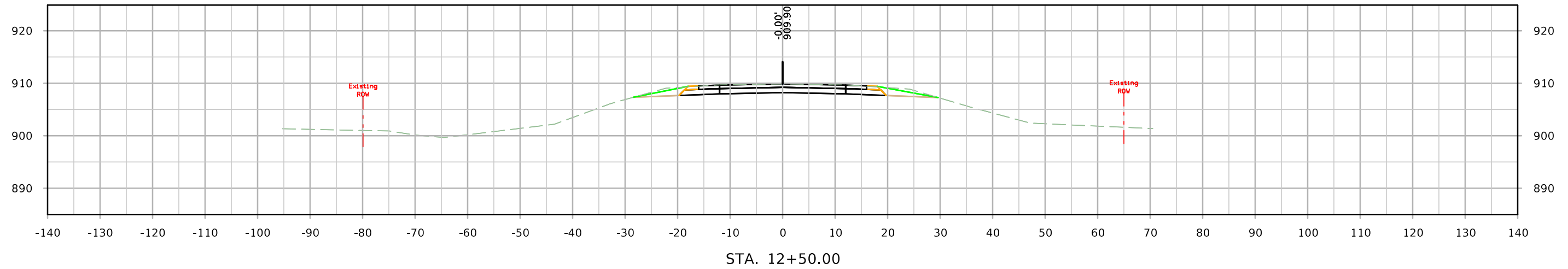
The first two digits in the control point name refer to the county number.
The next 3 digits refer to the highway number.
The next 3 digits refer to the highway milepost.
The last digit refers to the distance from the referenced milepost to the nearest tenth of a mile.

108-23A 08-01-08
TRAFFIC CONTROL PLAN
Iowa 333 traffic shall be maintained via an off-site detour.

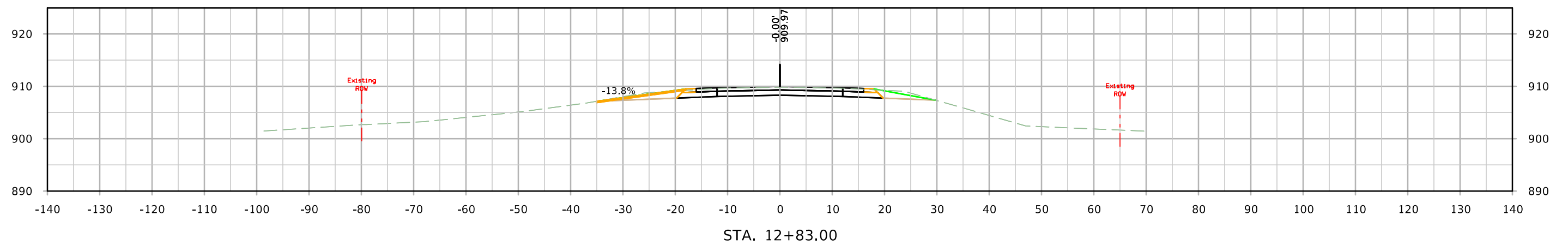
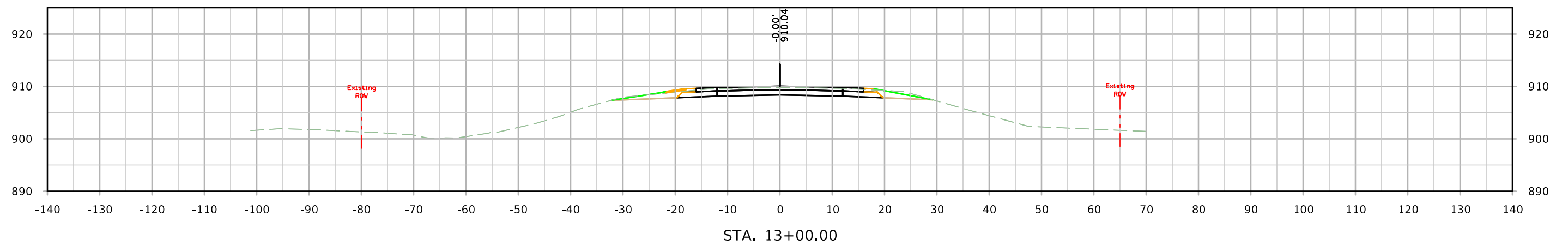
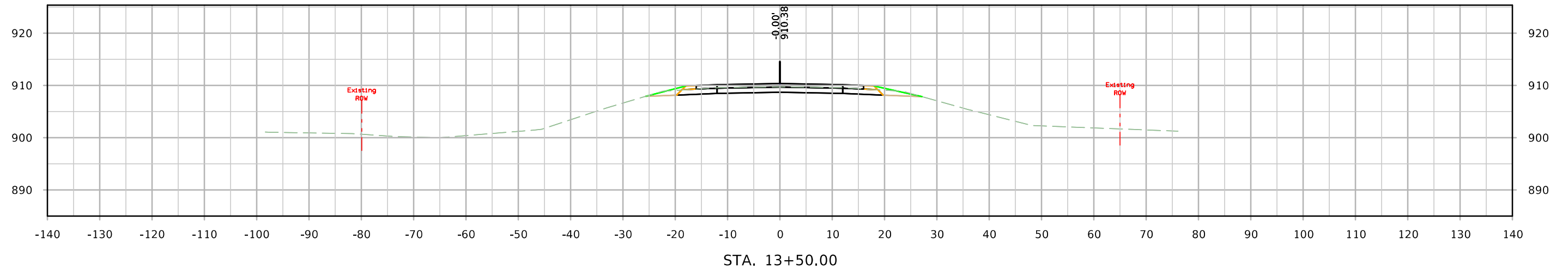
108-25 10-21-14												
511 TRAVEL RESTRICTIONS												
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
			No Travel Restrictions Expected.									

111-01 04-17-12	
COORDINATED OPERATIONS	
Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.	
Project	Type of Work
None Provided.	

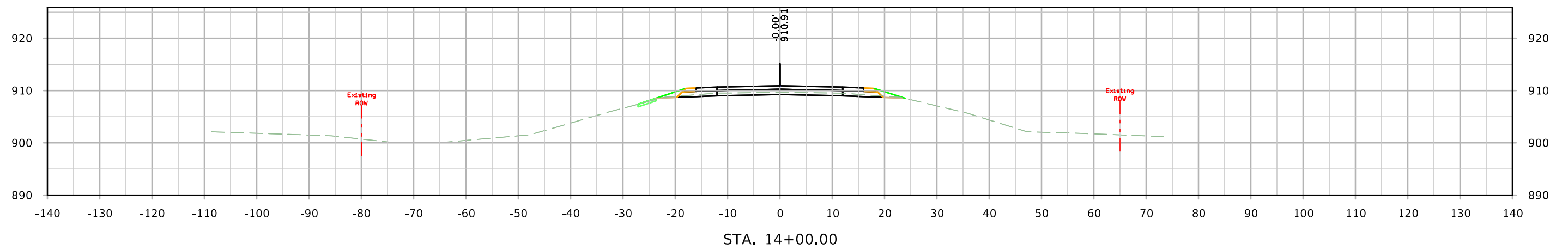
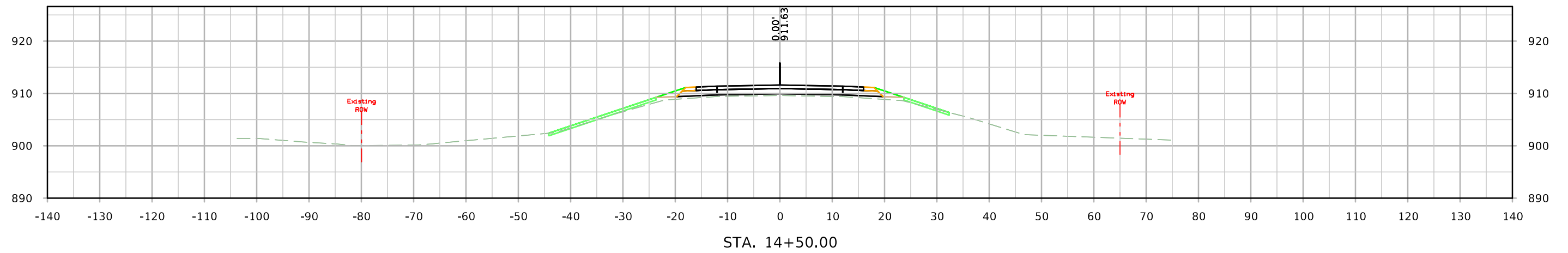
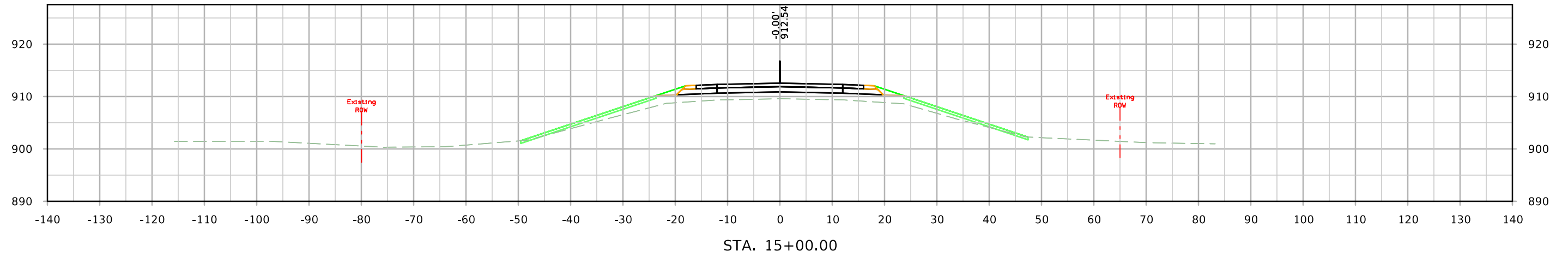
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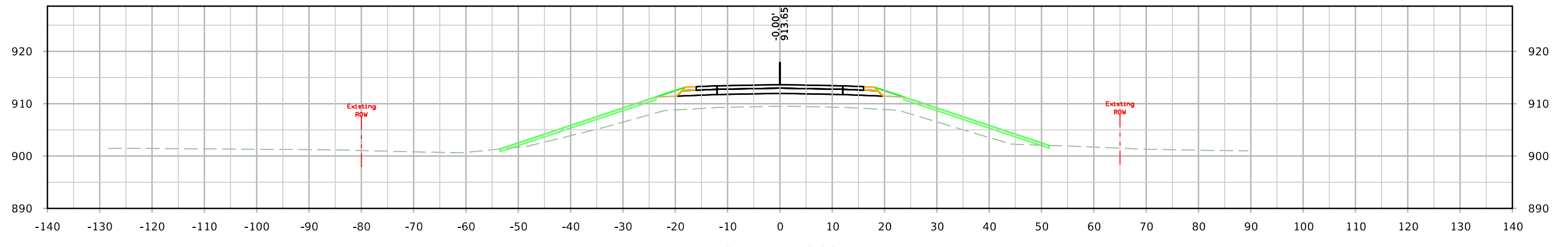
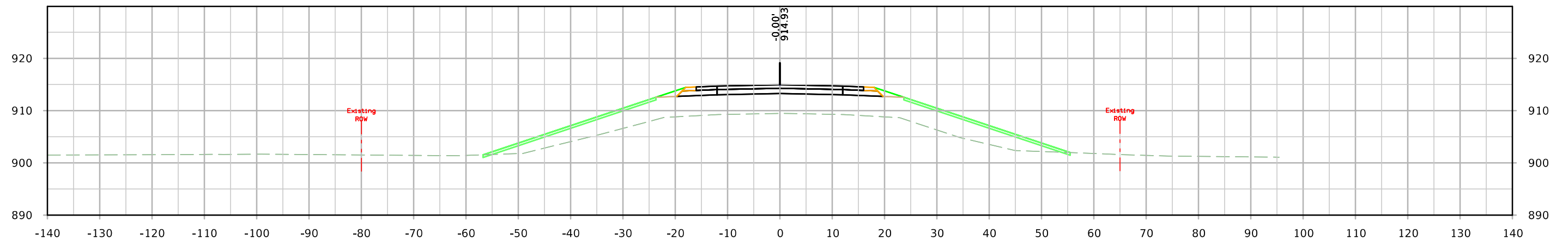
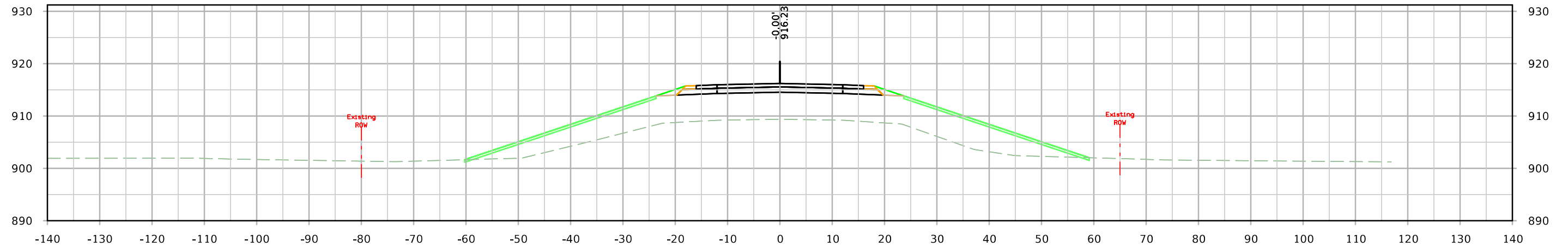
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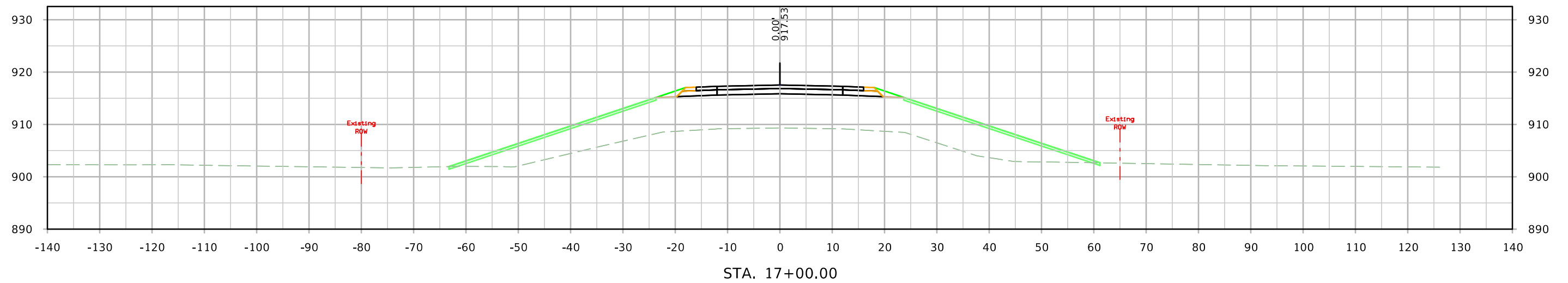
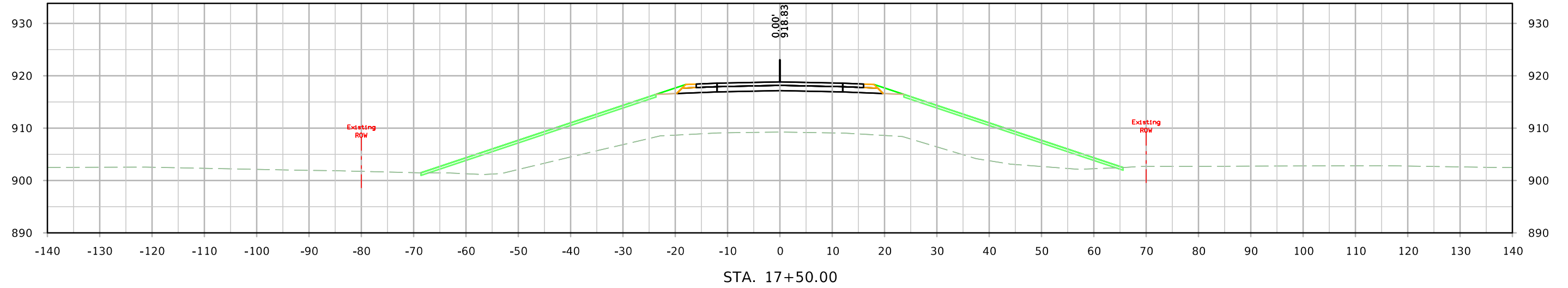
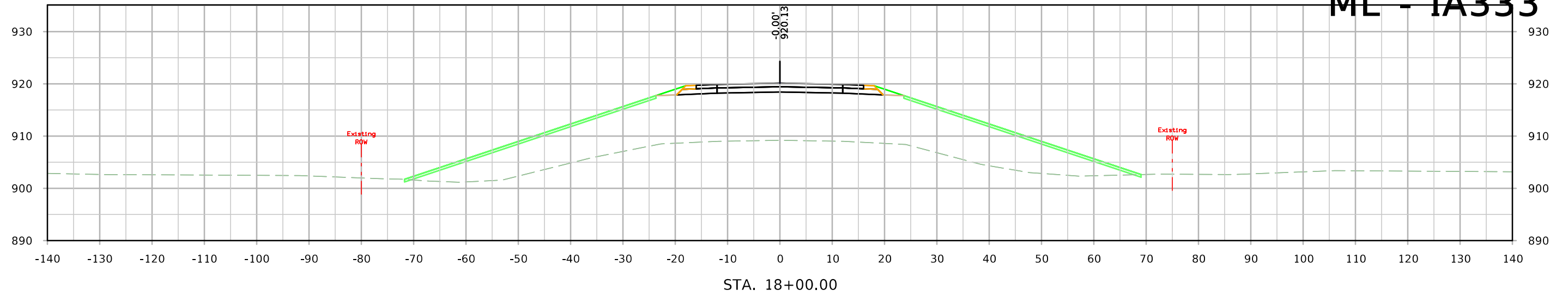
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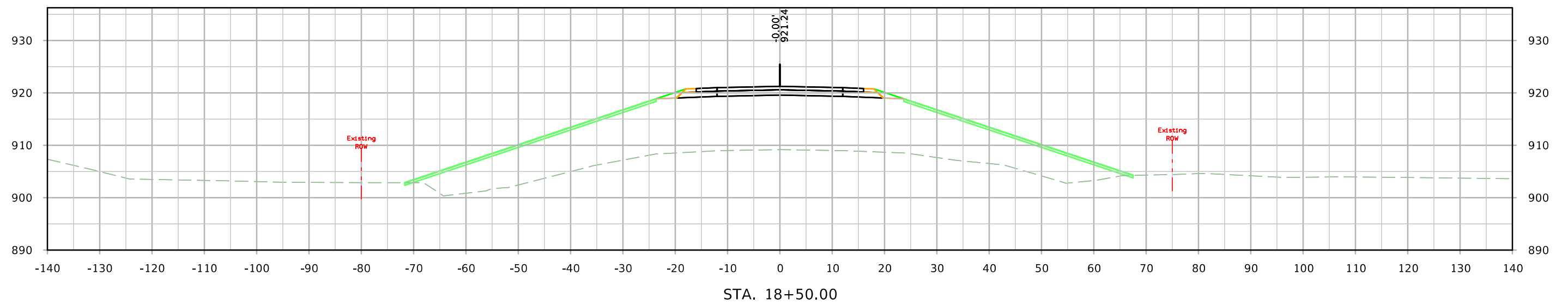
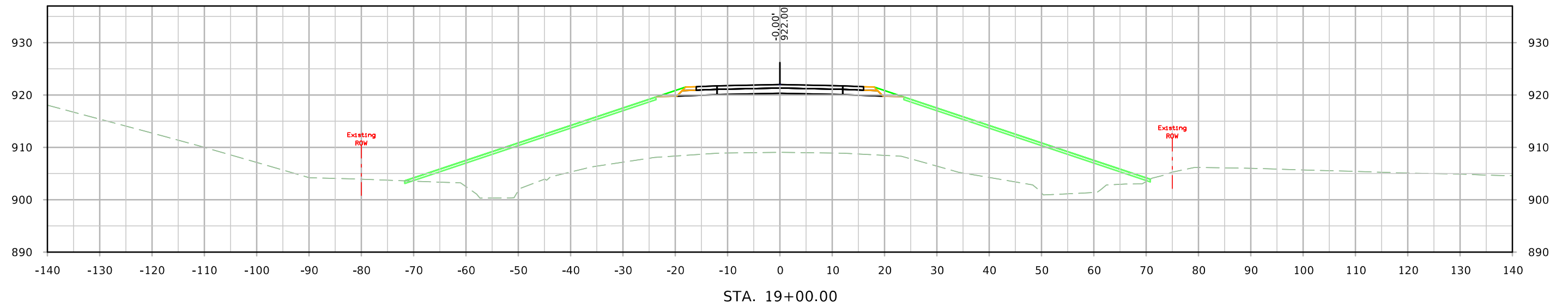
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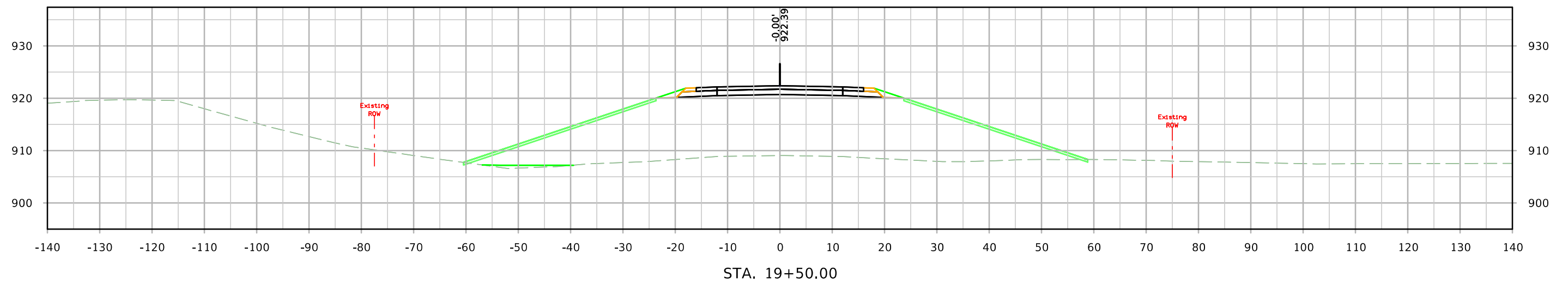
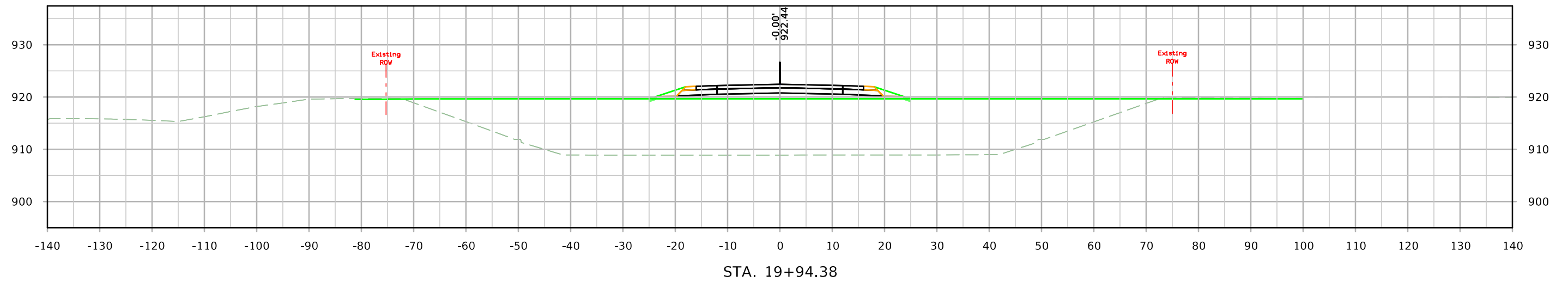
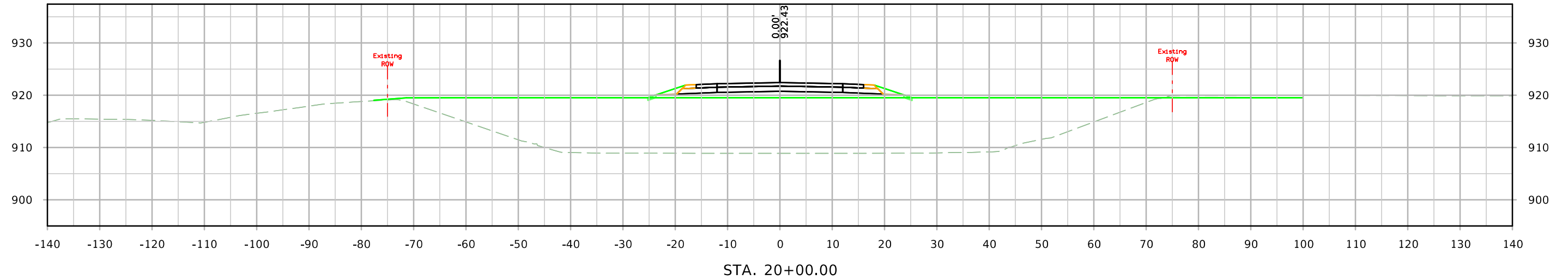
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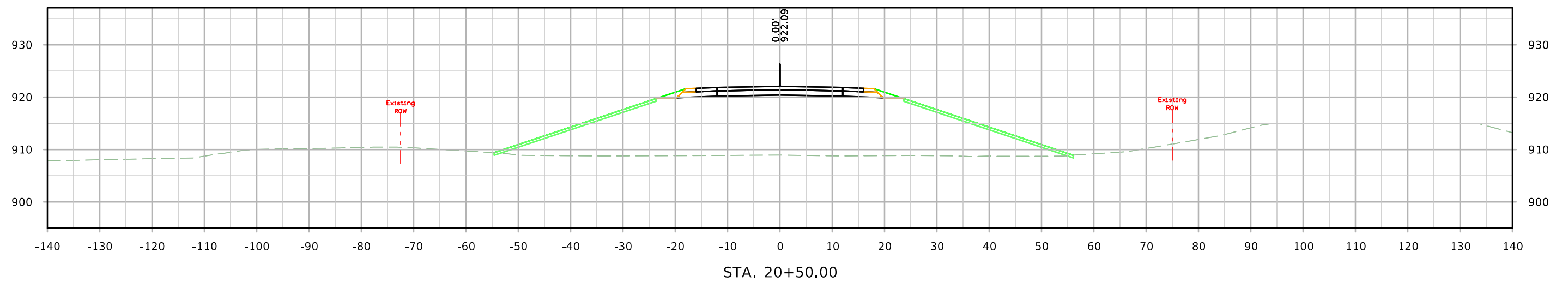
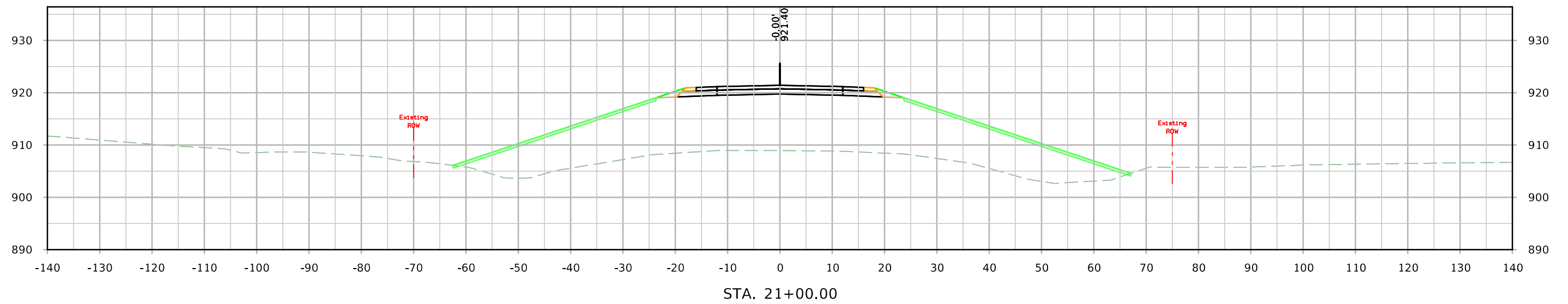
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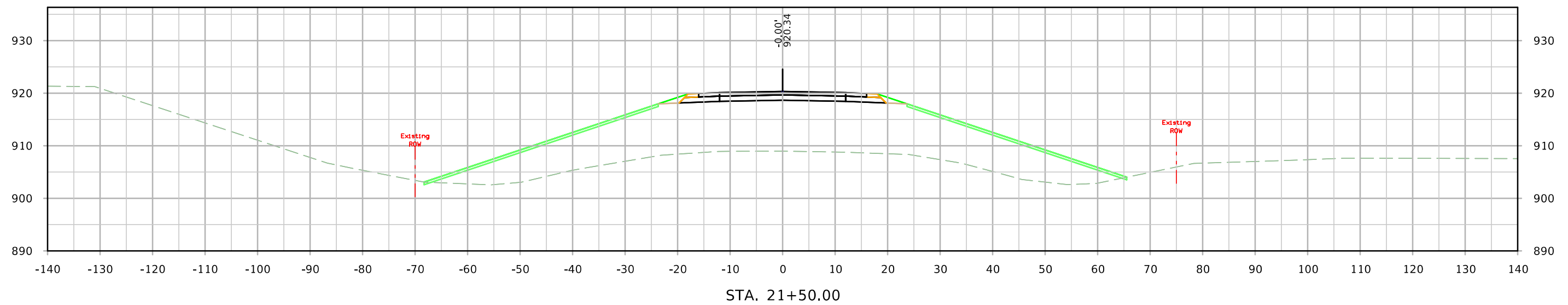
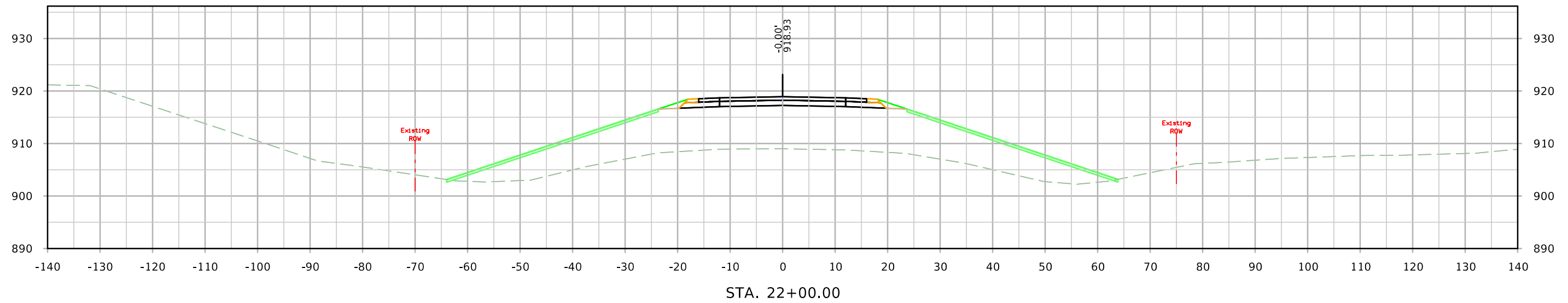
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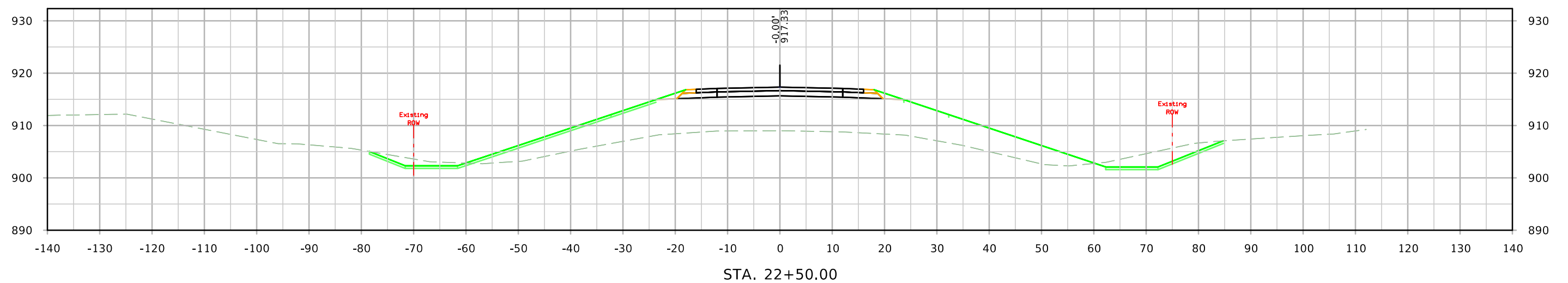
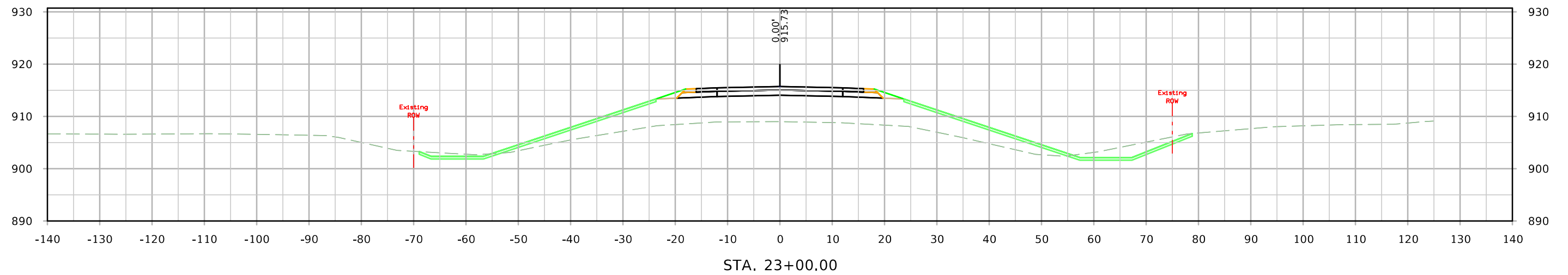
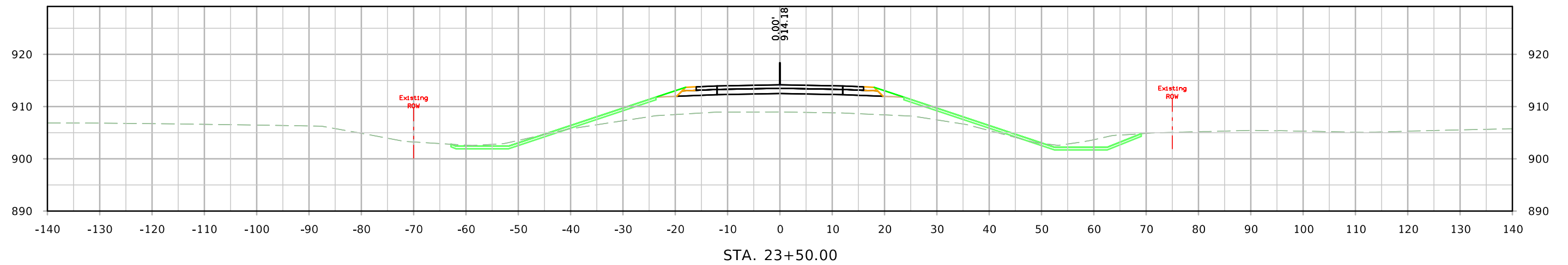
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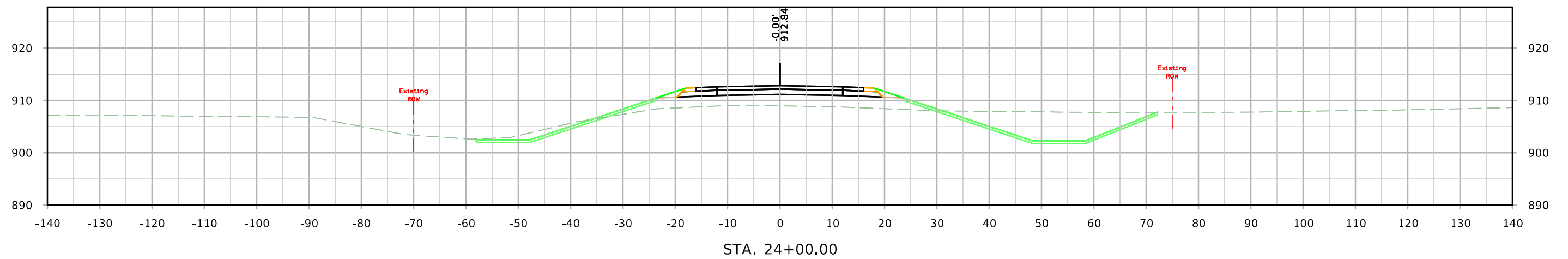
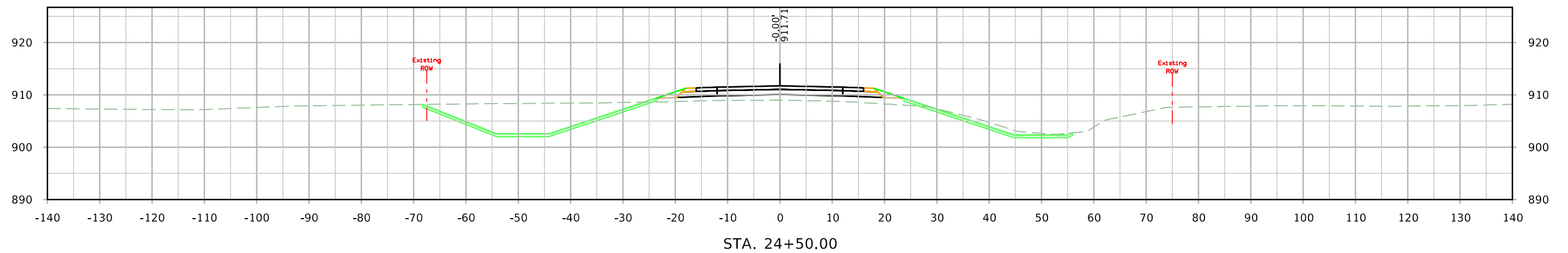
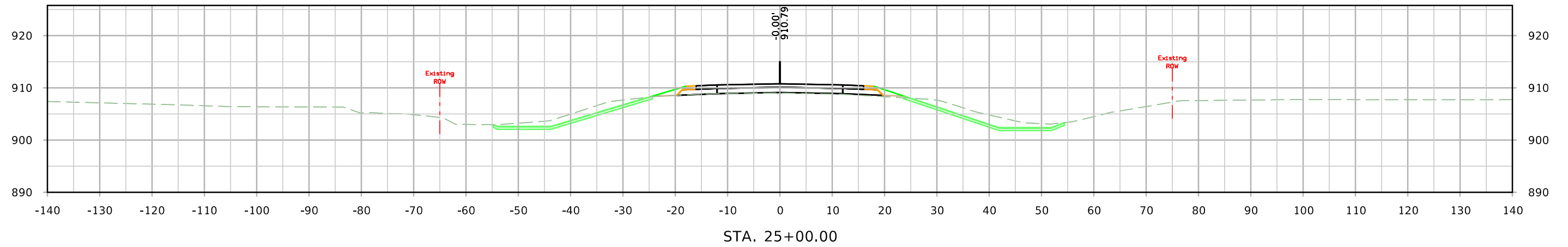
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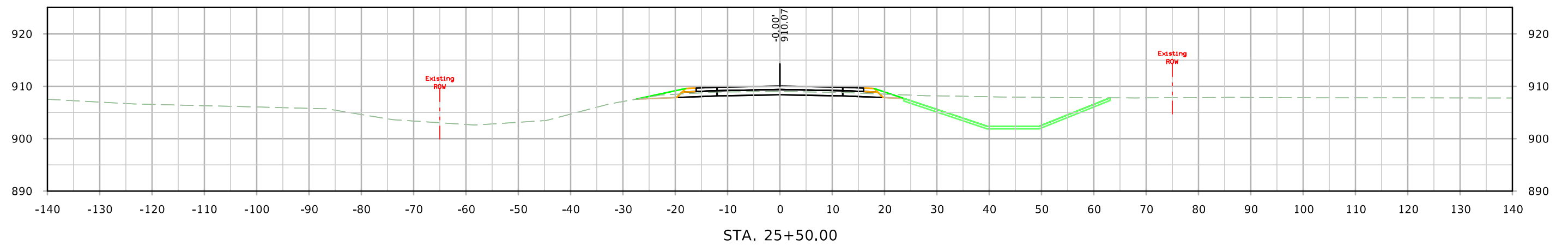
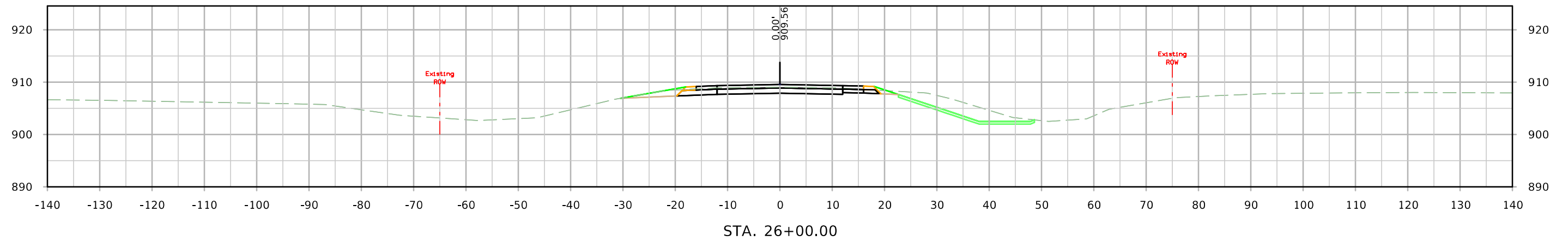
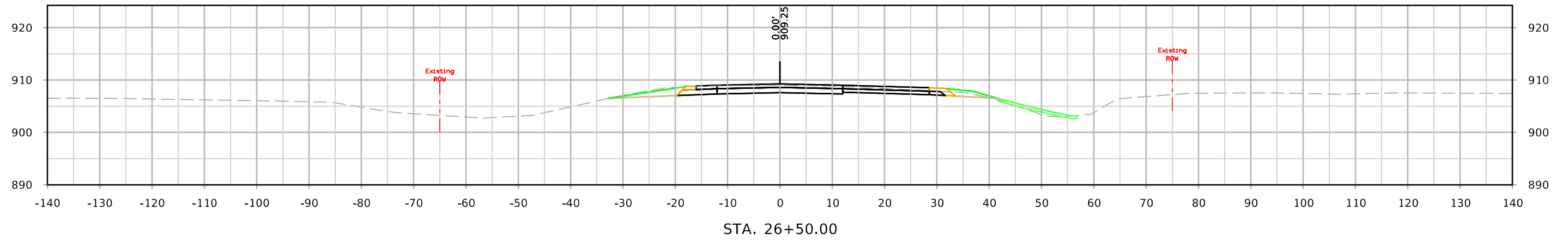
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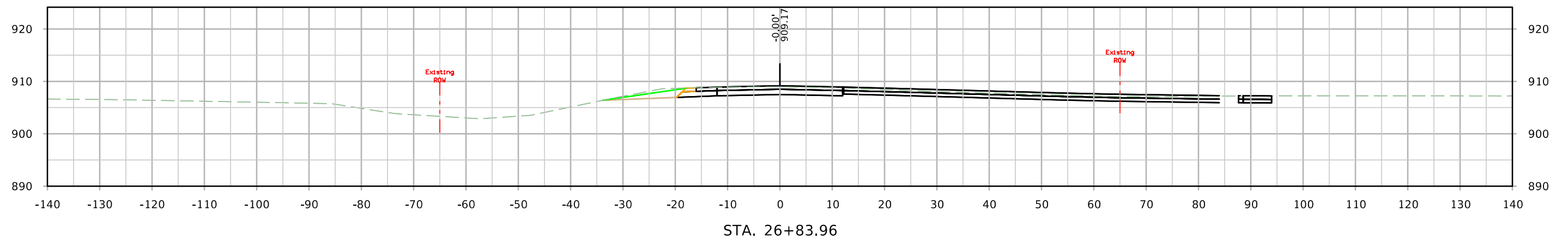
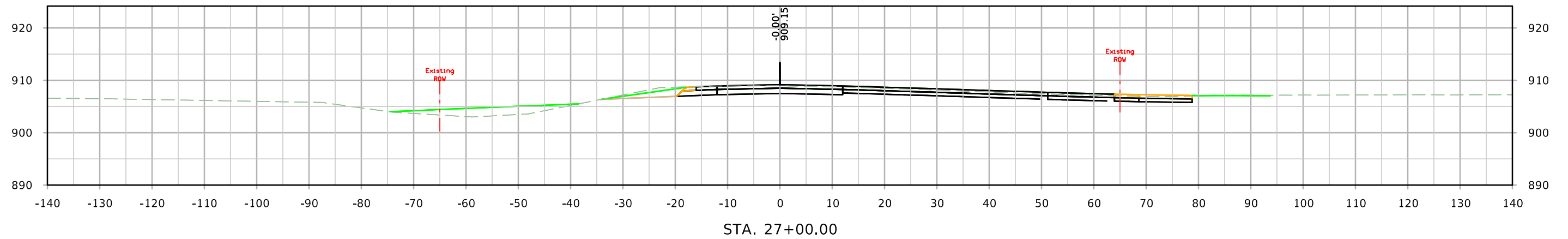
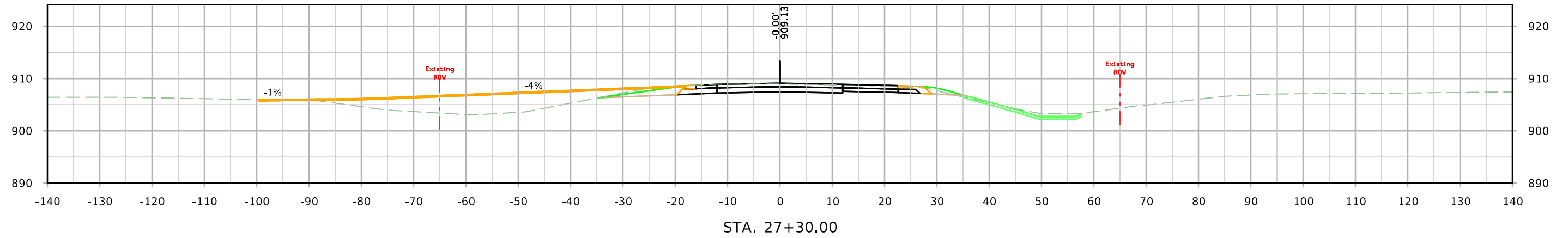
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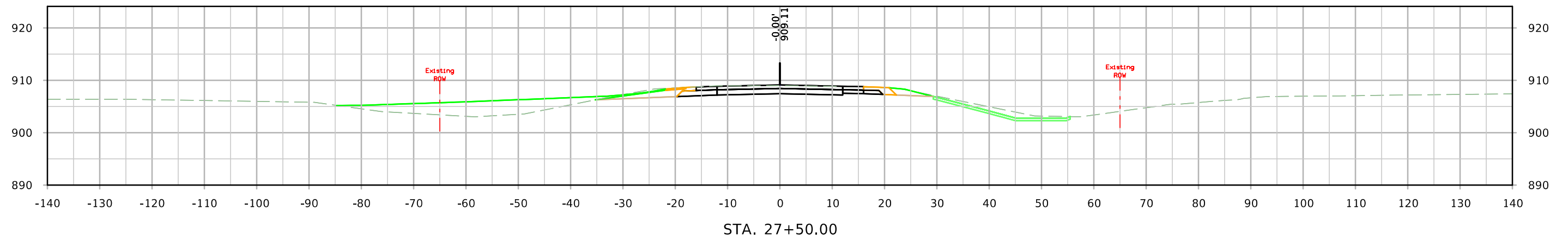
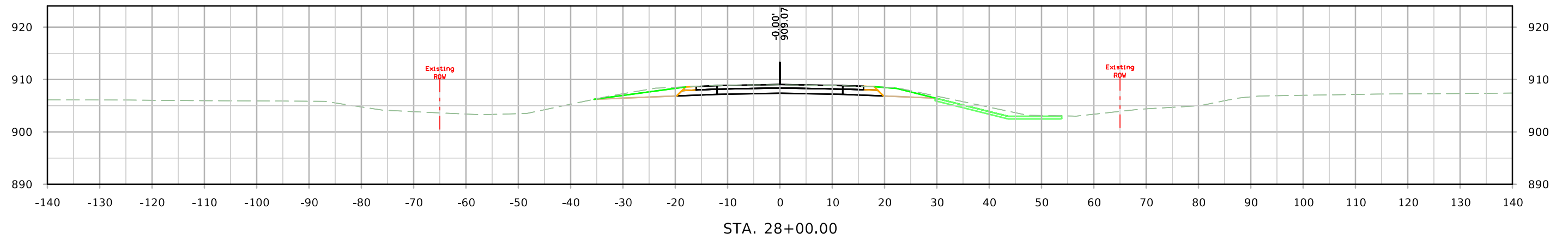
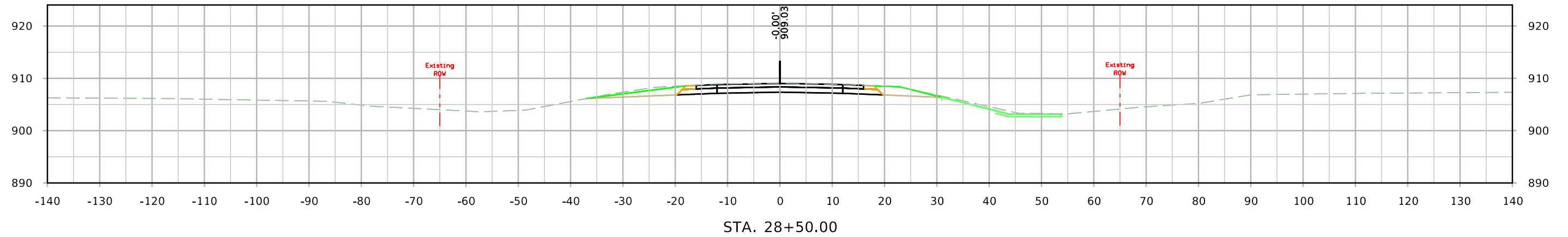
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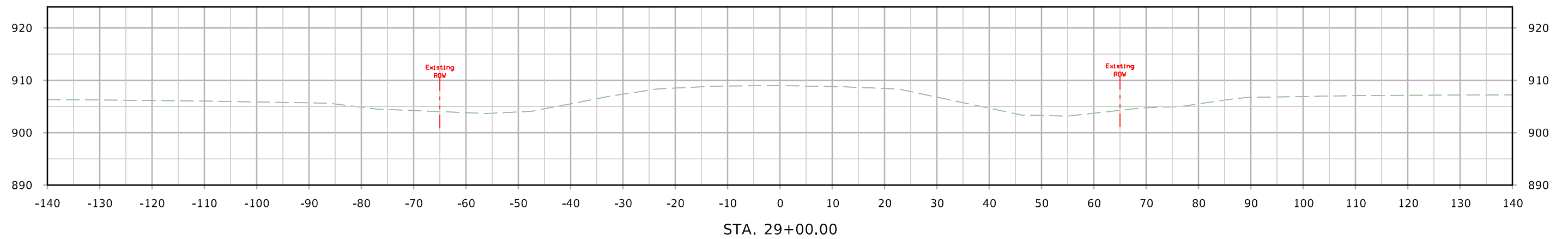
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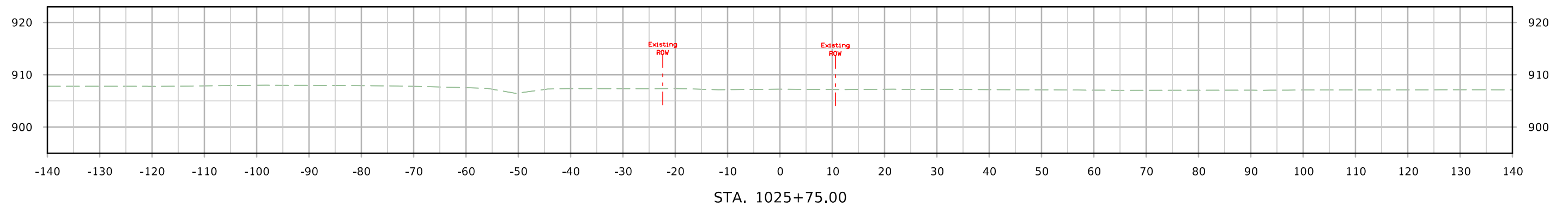
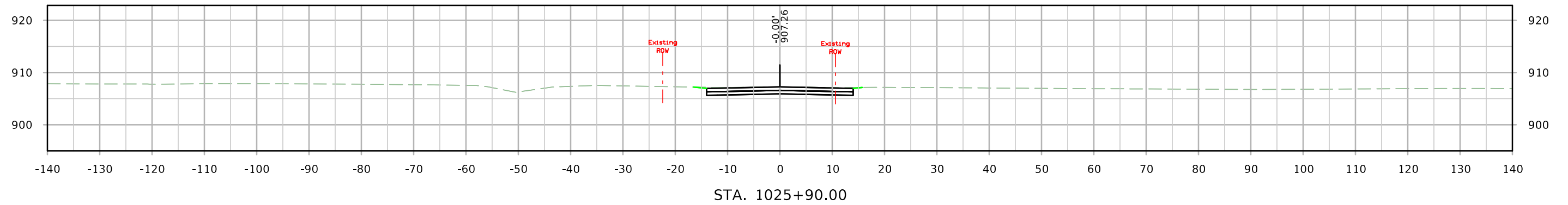
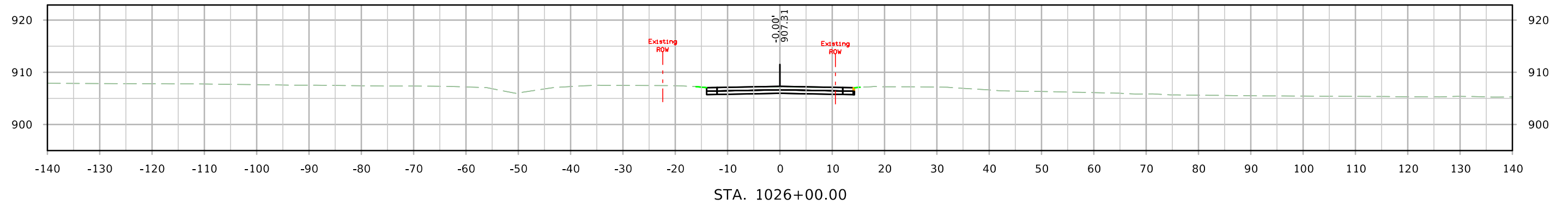
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ML - IA333



274TH AVE



274TH AVE

