PAVEMENT REPLACEMENT
NHSX-009-4(051)--3H-32

LETTING DATE
OCT 19, 2027

EMMET COUNTY

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 - 2	Typical Cross Sections
D Sheets	**Mainline Plan and Profile Sheets**
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2 - 25	IA - 9
E Sheets	**Side Road Plan and Profile Sheets**
* E.1	1st Street
* E.2	2nd Street
* E.3	5th Street
* E.4	6th Street
* E.5	7th Street
* E.6	8th Street
* E.7	9th Street
* E.8	13th Street
* E.9	S 15th Place & N 16th Street
* E.10	17th Street
* E.11	18th Street
* E.12	N 20th Street & 3rd Avenue S
* E.13	S 28th Street
G Sheets	**Survey Sheets**
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* G.3	Control Point Vicinity Map
G.4	Horizontal & Vertical Project Control Coordinates
G.5	Horizontal Alignments
H Sheets	**Right-of-Way Sheets**
* H.1 - 15	IA-9 Right of Way Plan
J Sheets	**Traffic Control and Staging Sheets**
* J.1	Stage 1 & 2 Detour Route
* J.2	Stage 1A Detour Route
* J.3	Stage 3 Detour Route
* J.4 - 9	Staging Plan
W Sheets	**Mainline Cross Sections**
W.1 - 86	Mainline Cross Sections
X Sheets	**Side Road Cross Sections**
X.1 - 24	Side Road Cross Sections

* Color Plan Sheets

IOWA | DOT

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM
EMMET COUNTY
PAVEMENT REPLACEMENT

IA - 9 in Estherville
From East Limits of the Des Moines River Bridge
2.42 Miles to East of the Brown Creek Bridge

SCALES: As Noted

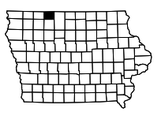
Refer to the Proposal Form for list of applicable specifications.

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

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

REVISIONS

	TOTAL
	..
PROJECT IDENTIFICATION NUMBER	
24-32-009-010	
PROJECT NUMBER	
NHSX-009-4(051)--3H-32	
R.O.W. PROJECT NUMBER	
NHSX-009-4(052)--3H-32	



DESIGN DATA URBAN

2030	AADT	6,100	V.P.D.
2050	AADT	6,500	V.P.D.
20 –	DHV	–	V.P.H.
TRUCKS		5	%
Total Design ESALs		–	

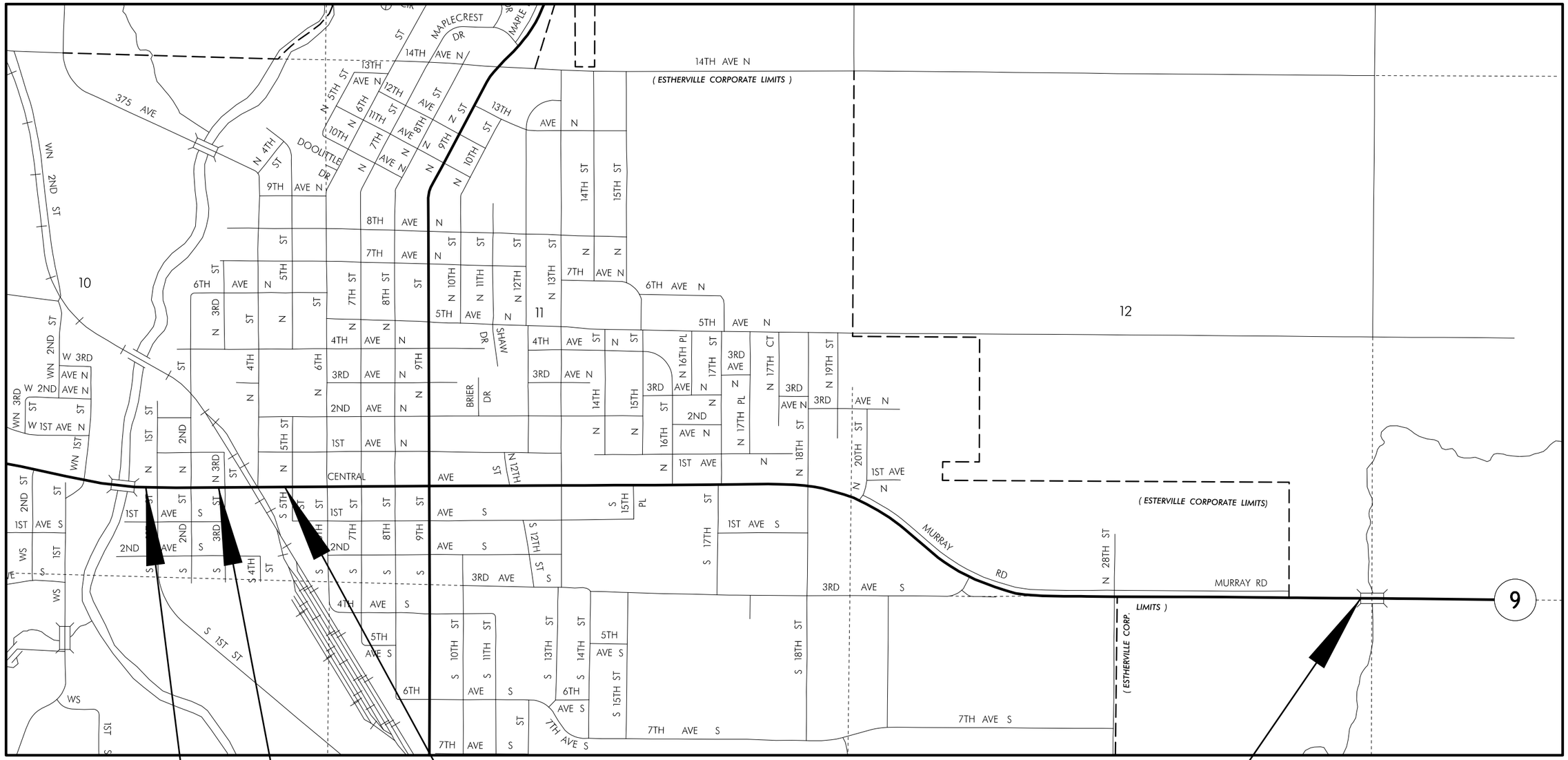
INDEX OF SEALS

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

PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN - Date: OCT 3, 2025

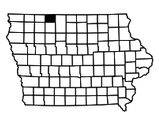


BEGIN CONSTRUCTION
STA 2223+25.00

END CONSTRUCTION
STA 86+34.91

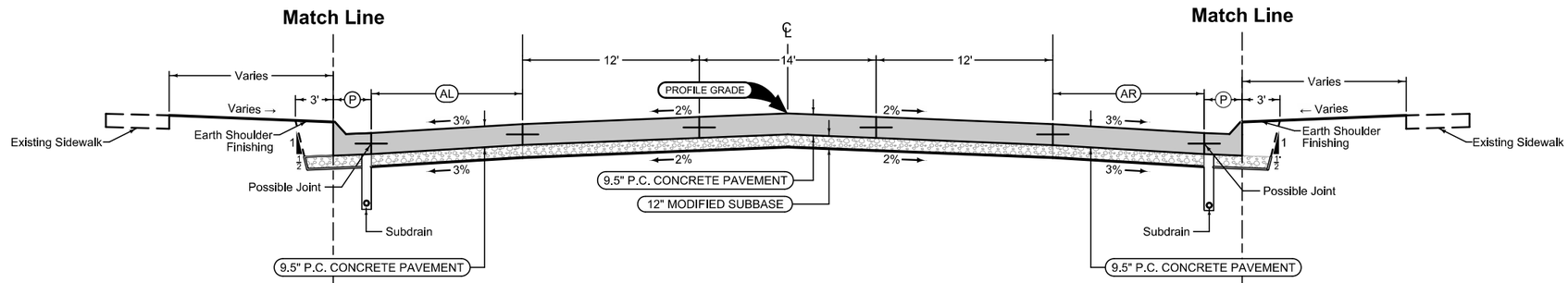
END CONSTRUCTION
STA 2216+50.00

BEGIN CONSTRUCTION
STA 2208+39.08



LOCATION MAP SCALE
0 0.1 0.2 0.3
Miles

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER A.2



Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

STATION TO STATION		(AL) Feet
2208+38.91	2216+50.00	3
2223+25.00	2226+85.11	8
2227+66.11	2230+24.54	13.5
2231+09.94	2237+15.33	8
2238+02.33	2250+53.18	3
2251+27.13	2280+54.78	0

Curbed Shoulder

Shoulder Jointing:
Longitudinal joint not required when distance from back of curb to nearest joint is less than 15':

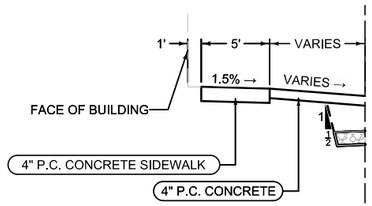
Single pour: L-2
Staged : KT-2
Transverse: C at 17' spacing

STATION TO STATION		(P) Feet	Curb Type See PV-102
2208+39.48	2216+50.00	2.5	6" Standard
2223+25.00	2250+53.18	2.5	6" Standard
2250+53.18	2280+54.78	3.0	6" Standard

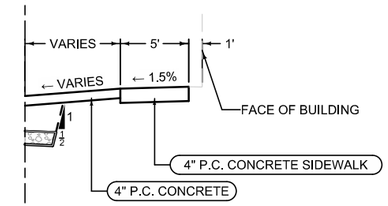
Auxiliary Lane

Longitudinal joint: L or KT
Transverse joint: Match Mainline

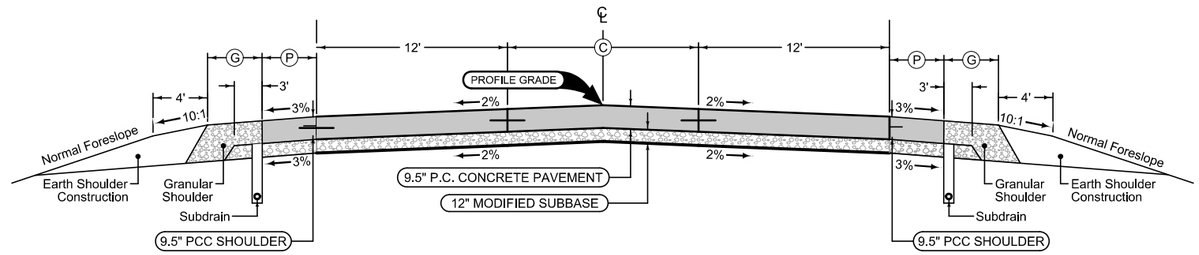
STATION TO STATION		(AR) Feet
2208+38.91	2216+50.00	3
2223+25.00	2237+03.29	8
2237+98.74	2250+52.28	3
2251+27.95	2280+54.78	0



STATION TO STATION	
2223+25.00	2235+62.48



STATION TO STATION	
2223+25.00	2237+00.00



Full Depth PCC Combination Shoulder

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

		2_C_FullPCC_ 04-20-21	
STATION TO STATION		(P) Feet	(G) Feet
2280+54.78	83+60.60	4	2

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

STATION TO STATION		(C) Feet
2280+54.78	63+90.00	14
63+90.00	67+00.00	VAR
67+00.00	84+86.00	0

Full Depth PCC Combination Shoulder

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

		2_C_FullPCC_ 04-20-21	
STATION TO STATION		(P) Feet	(G) Feet
2280+54.78	83+10.59	4	2

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)
- ST 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

E1	ALLIANT ENERGY CONTACT: ALLIANT ENERGY FIELD ENGINEER PHONE: 800-255-4268
W2	IOWA LAKES REGIONAL WATER CONTACT: ADAM KUESTER PHONE: 7122628847
FO4	CENTURYLINK CONTACT: SADIE HULL PHONE: 9185470147
E2, W, SAN., ST S	ESTHERVILLE, CITY OF CONTACT: PENNY CLAYTON PHONE: 7123627771
FO3	ESTHERVILLE COMMUNICATIONS LLC CONTACT NAME : KYLE HOUGH PHONE: 7128593300
FO5	IOWA COMMUNICATIONS NETWORK CONTACT: BRANDON HAINES PHONE: 8005723940
E3	IOWA LAKES ELECTRIC COOP CONTACT: KAY DAHL PHONE: 7123622694
FO3	PREMIER COMMUNICATIONS CONTACT: JOSH SANDBULTE PHONE: 7127223451
FO	MEDIACOM LLC IOWA CONTACT NAME : JEFF ANFINSON CONTACT PHONE: 7123305198
G	BLACK HILLS ENERGY SPENCER CONTACT: ASHLEY JOHNSON PHONE: 7125806033
FO6	UNITE PRIVATE NETWORKS, LLC CONTACT: JOE KILZER PHONE: 8164253556
FO2	WINDSTREAM COMMUNICATIONS CONTACT NAME : LOCATE DESK PHONE: 8002891901

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

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

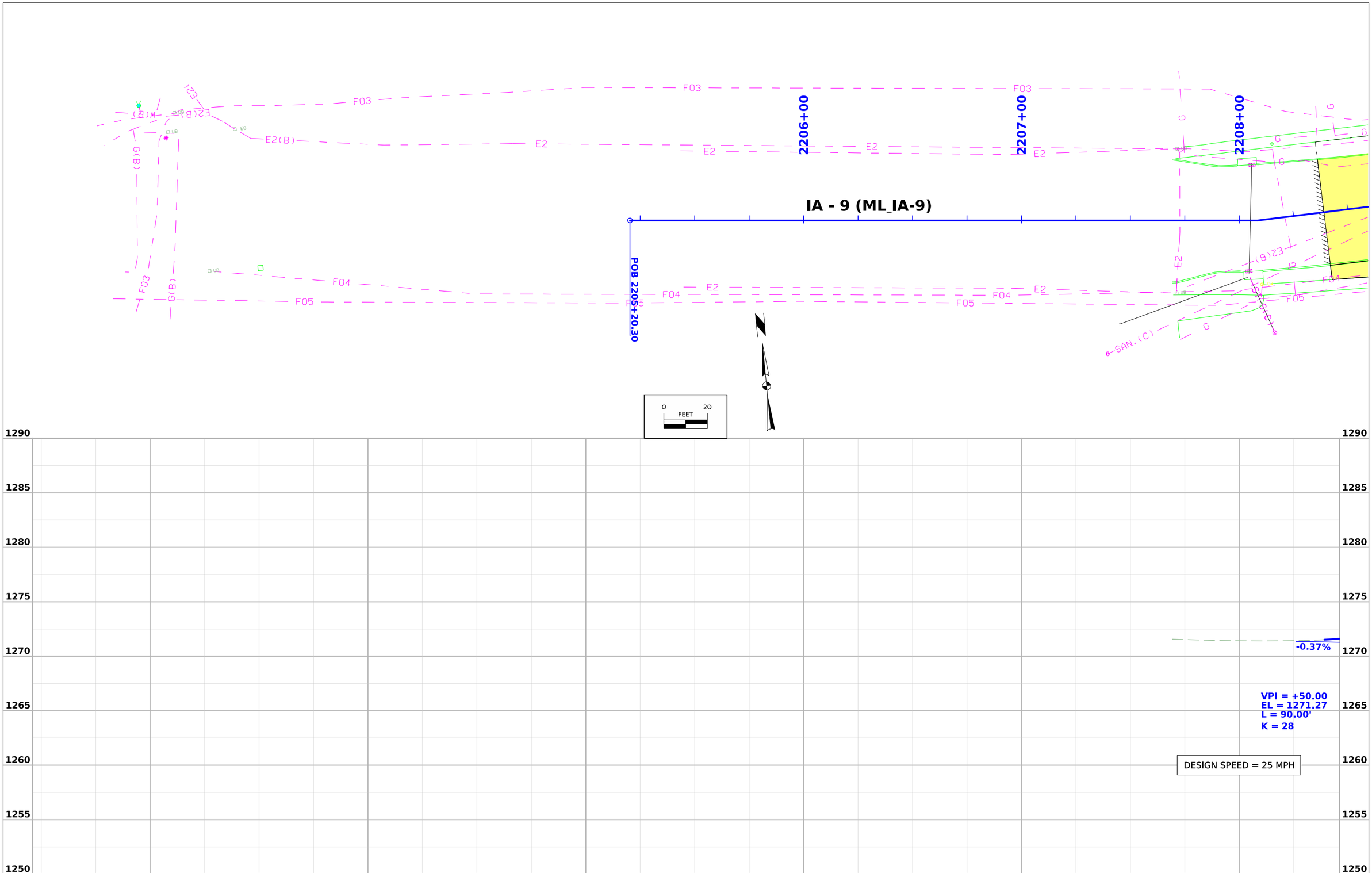
- Reference Point
- Station
- Survey Line
- Section Corner
- Ground Line Intercept
- Saw Cut
- Guardrail
- Trench Drain
- HighTension Cable Guardrail
- Sheet Pile
- Pavement Removal
- Clearing & Grubbing Area

RIGHT-OF-WAY LEGEND

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

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

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



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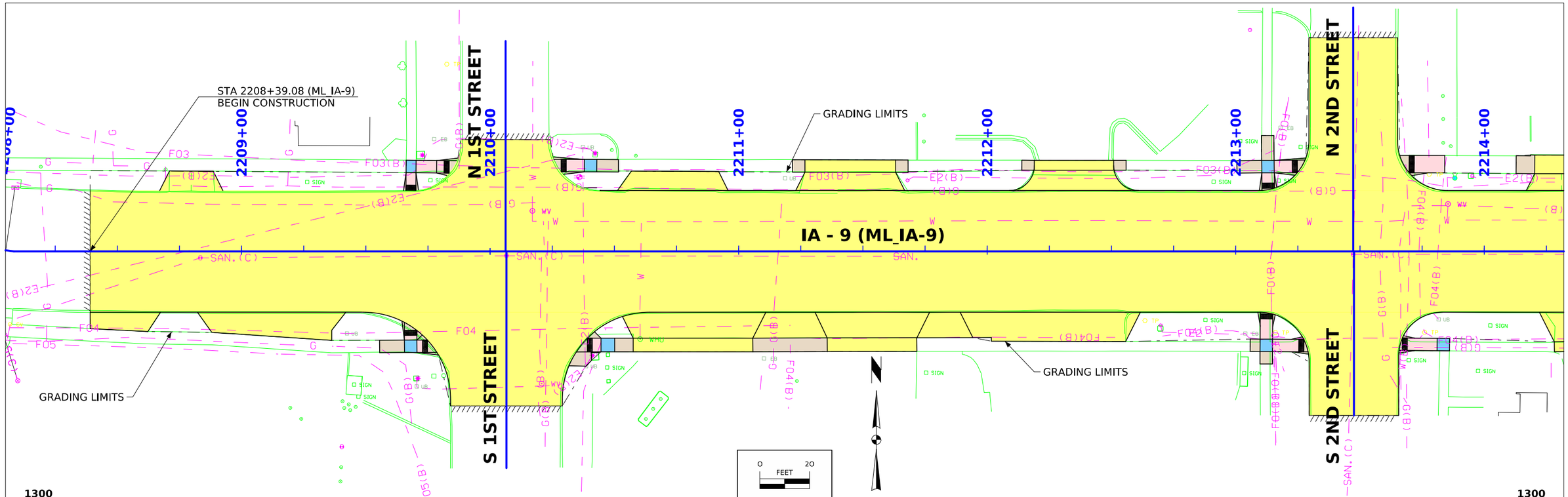

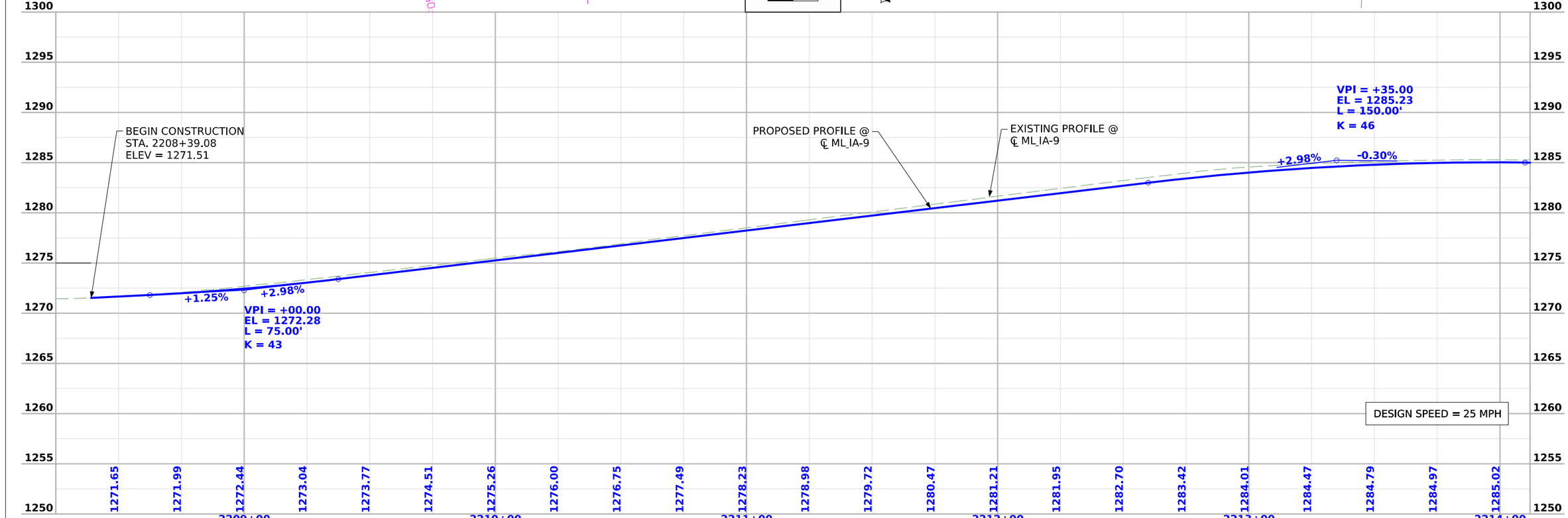

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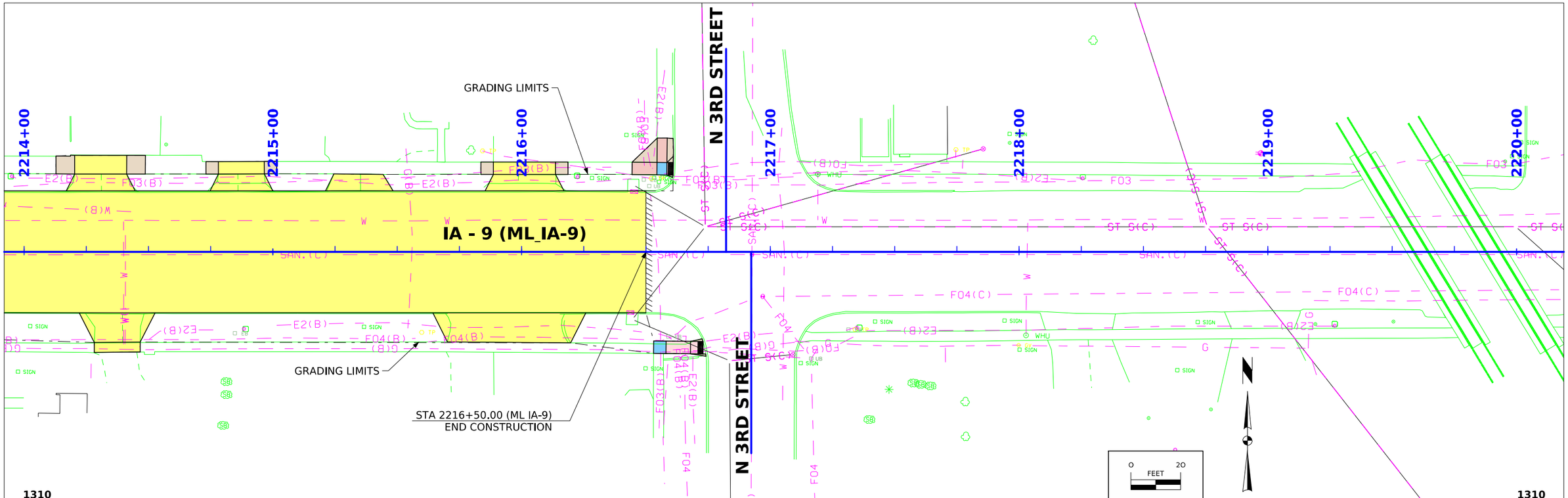

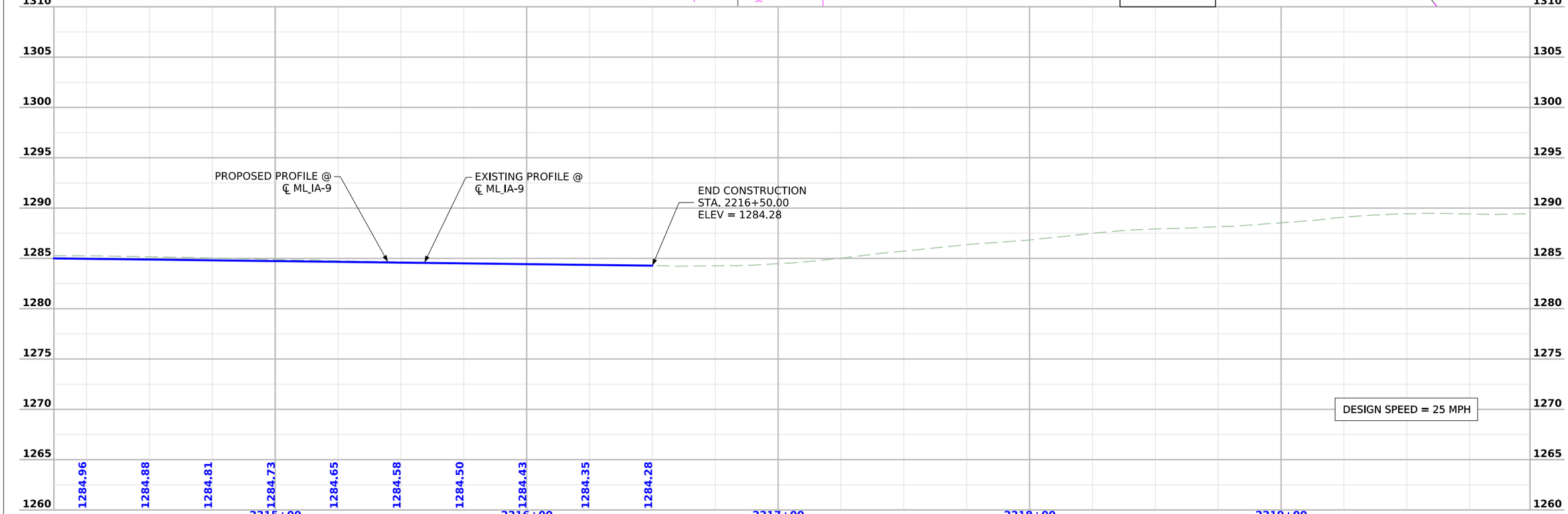

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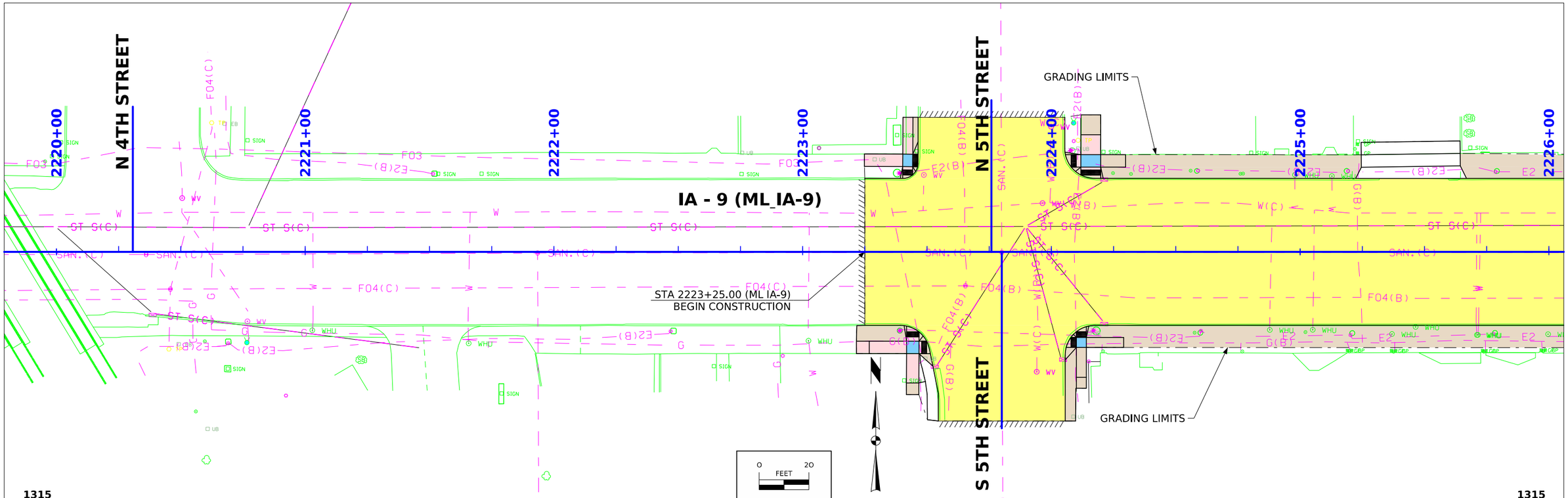

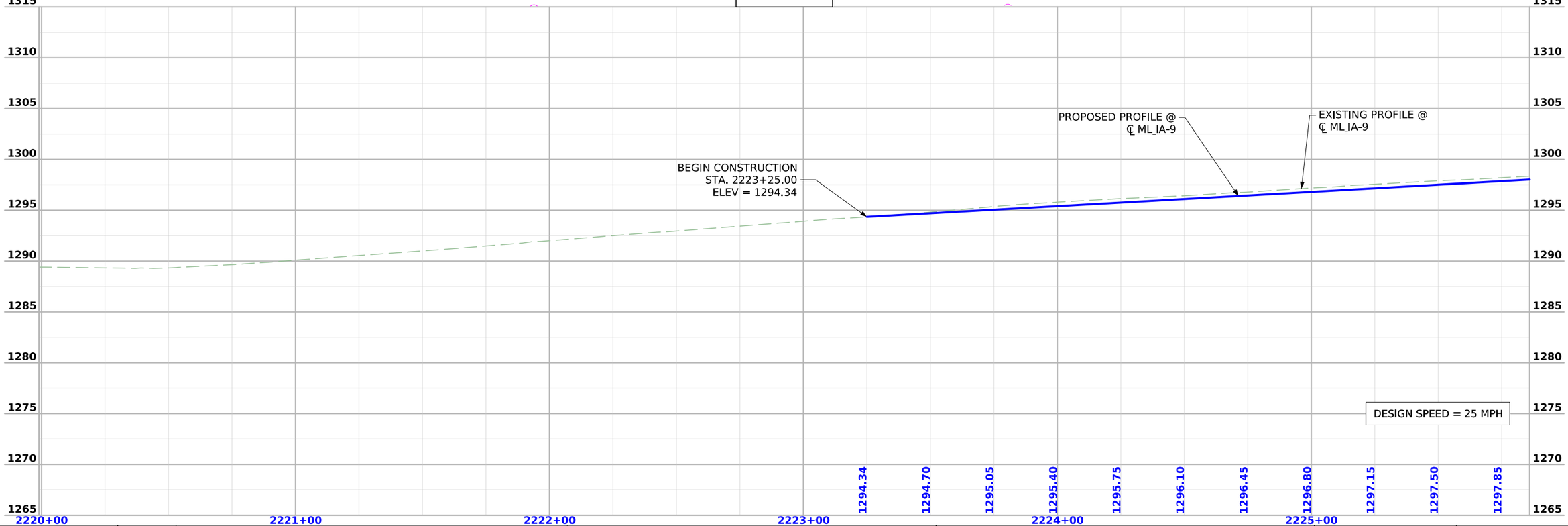

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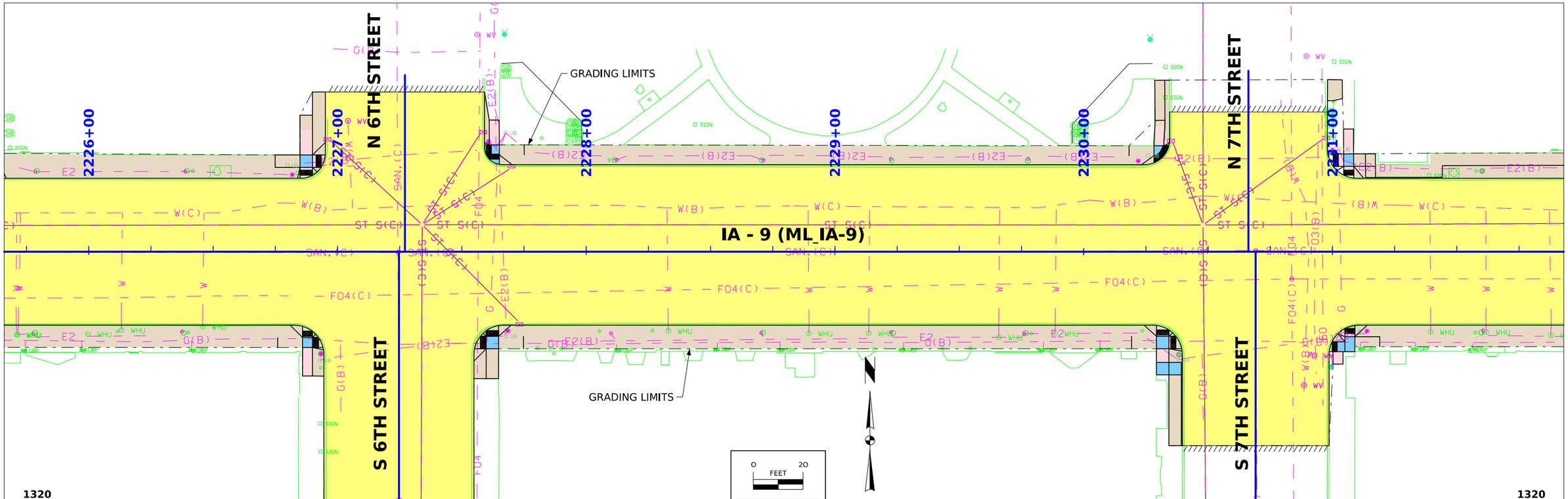

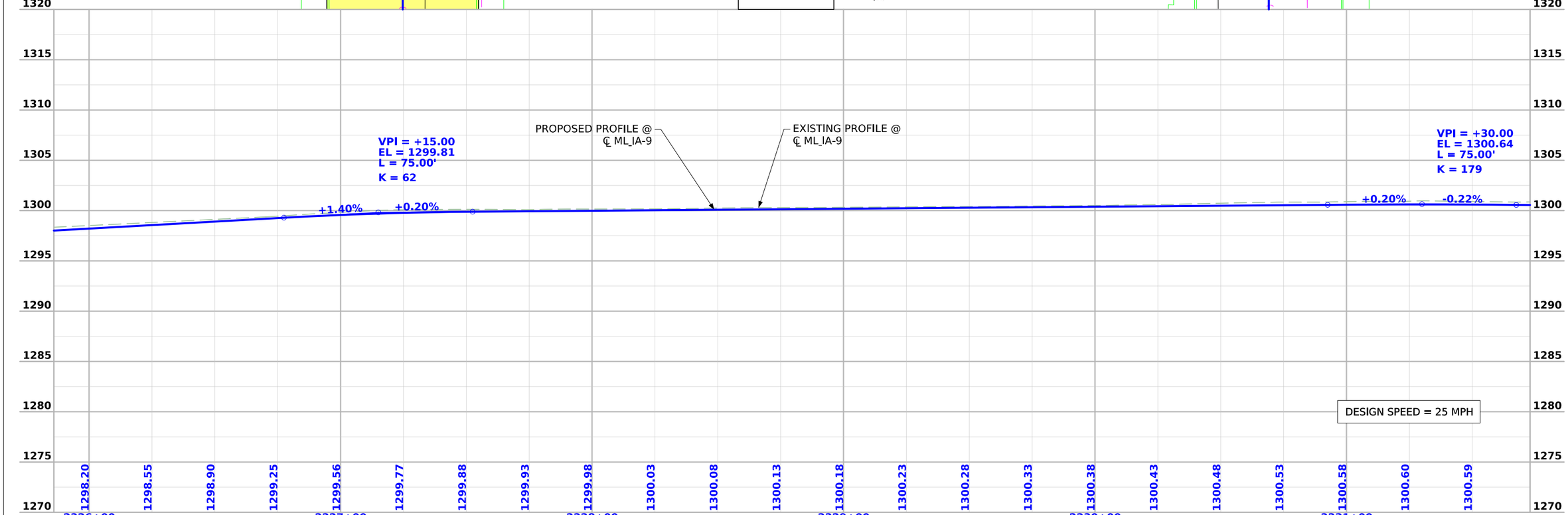

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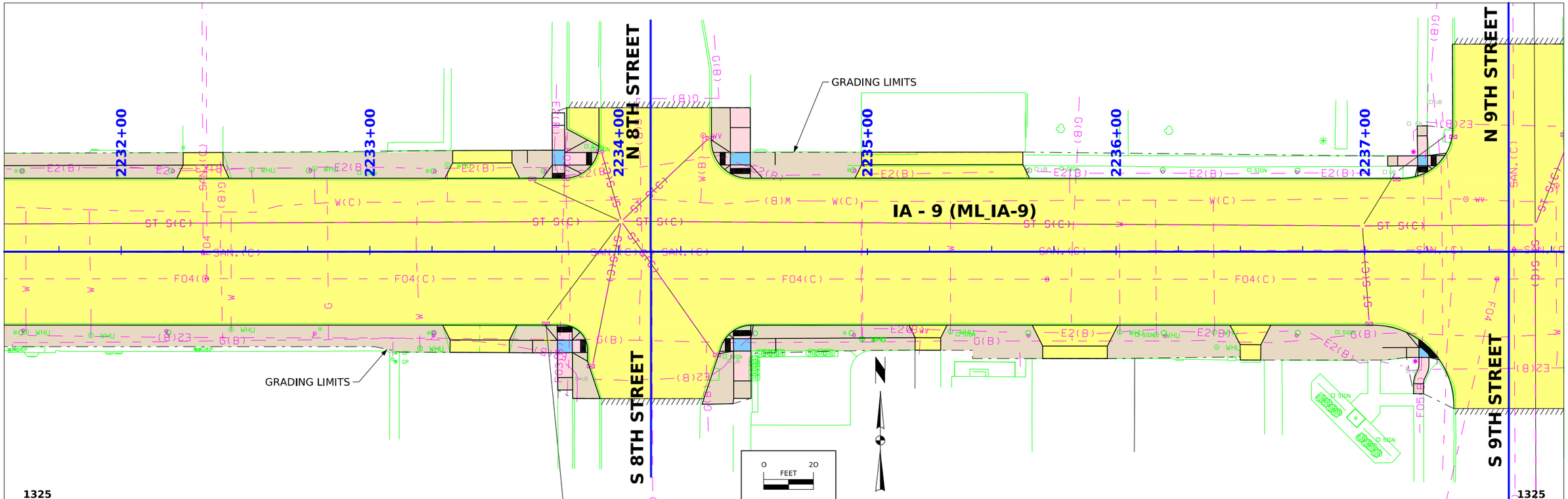

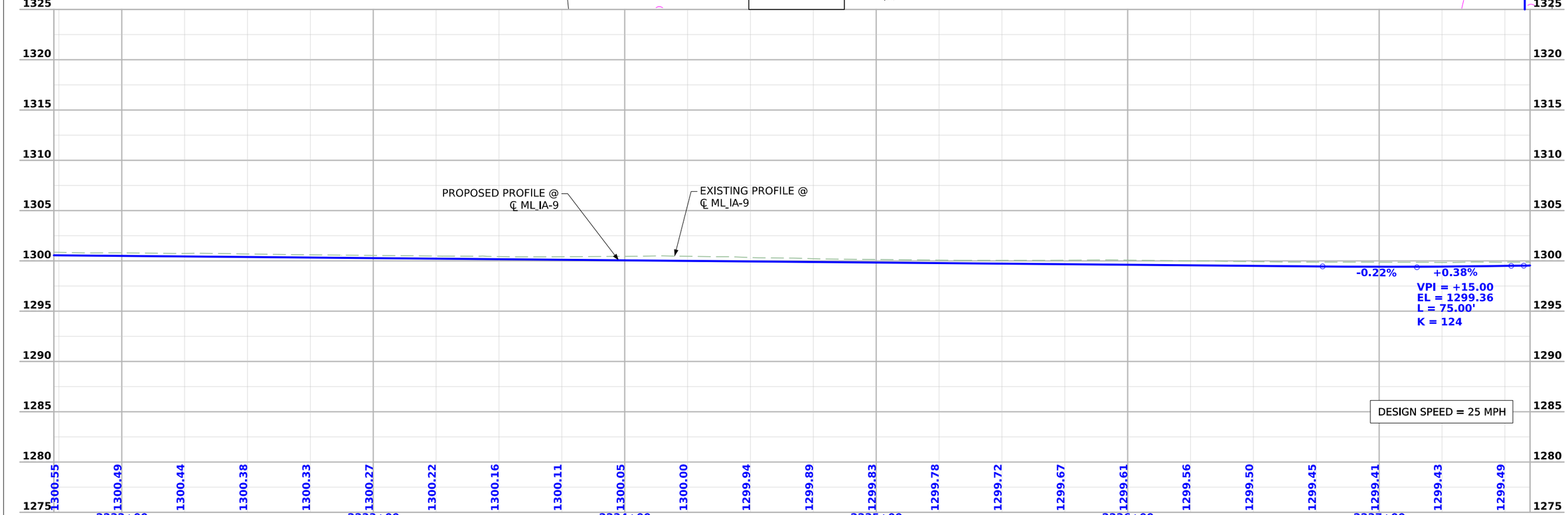

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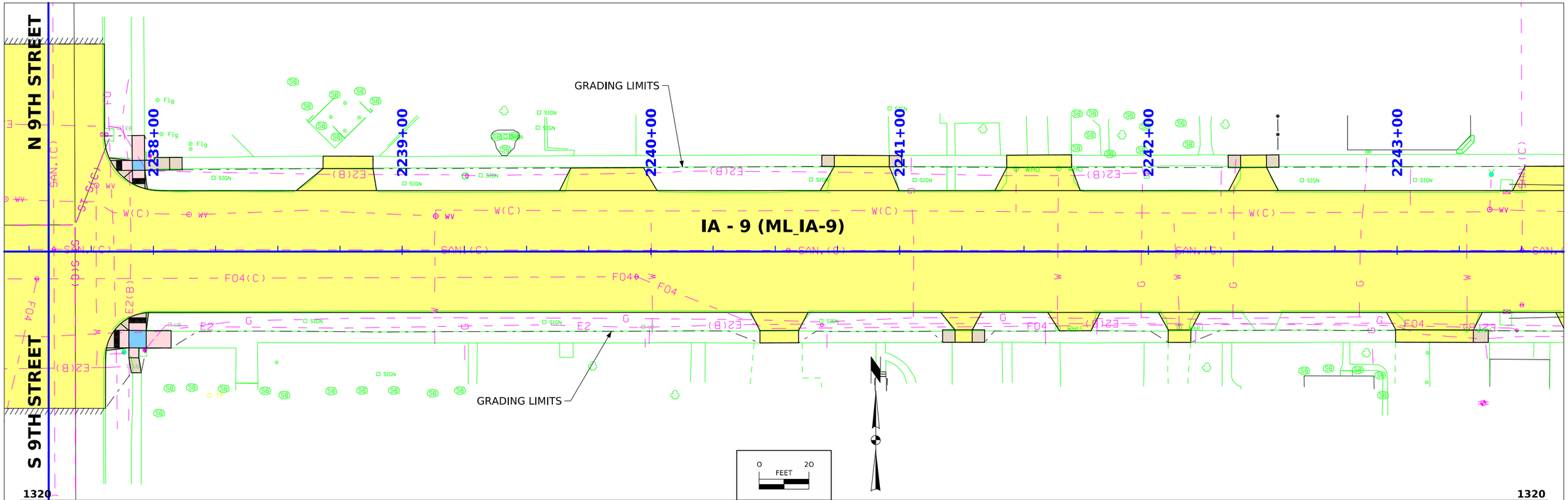

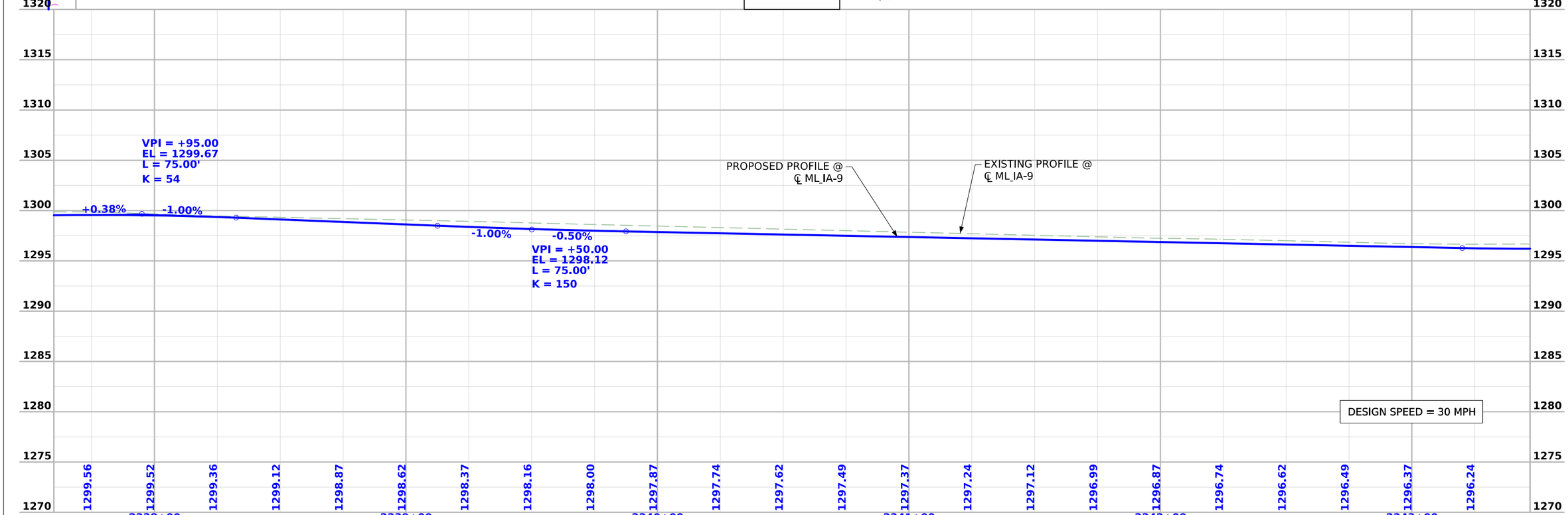

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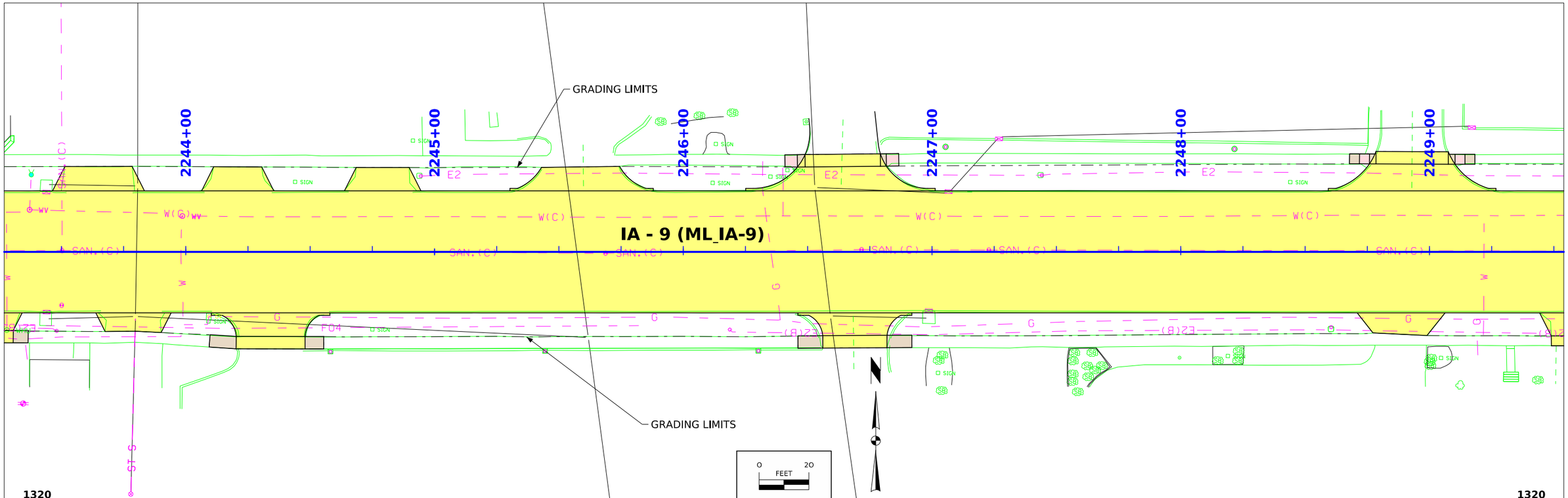

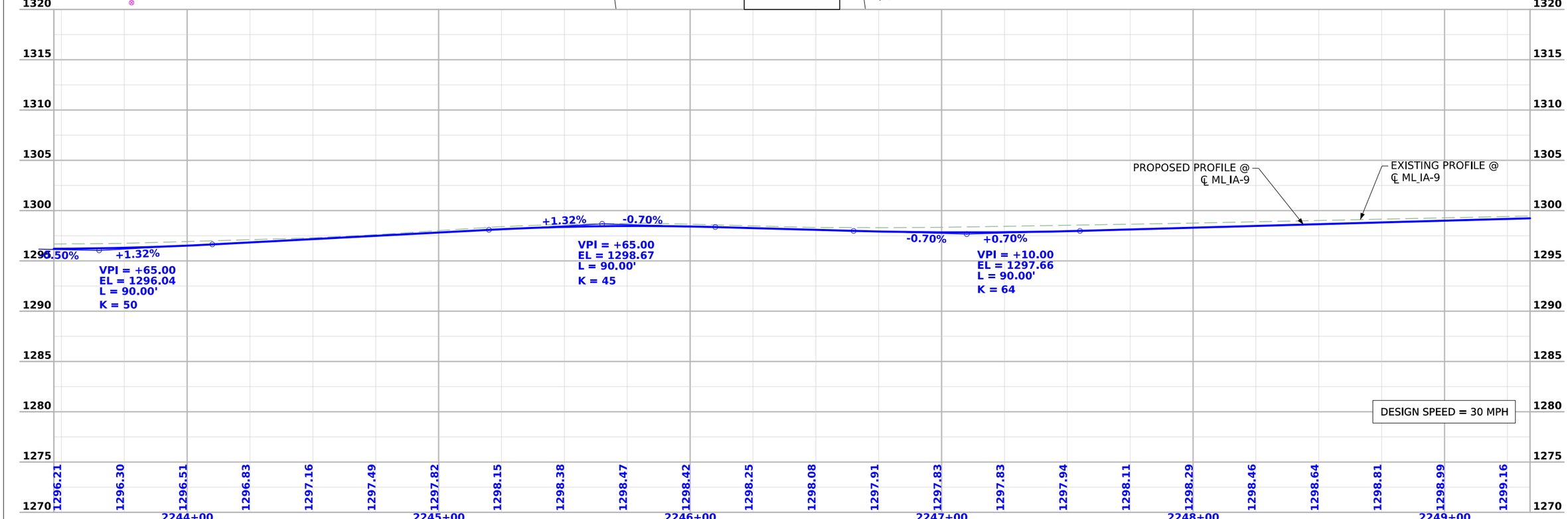

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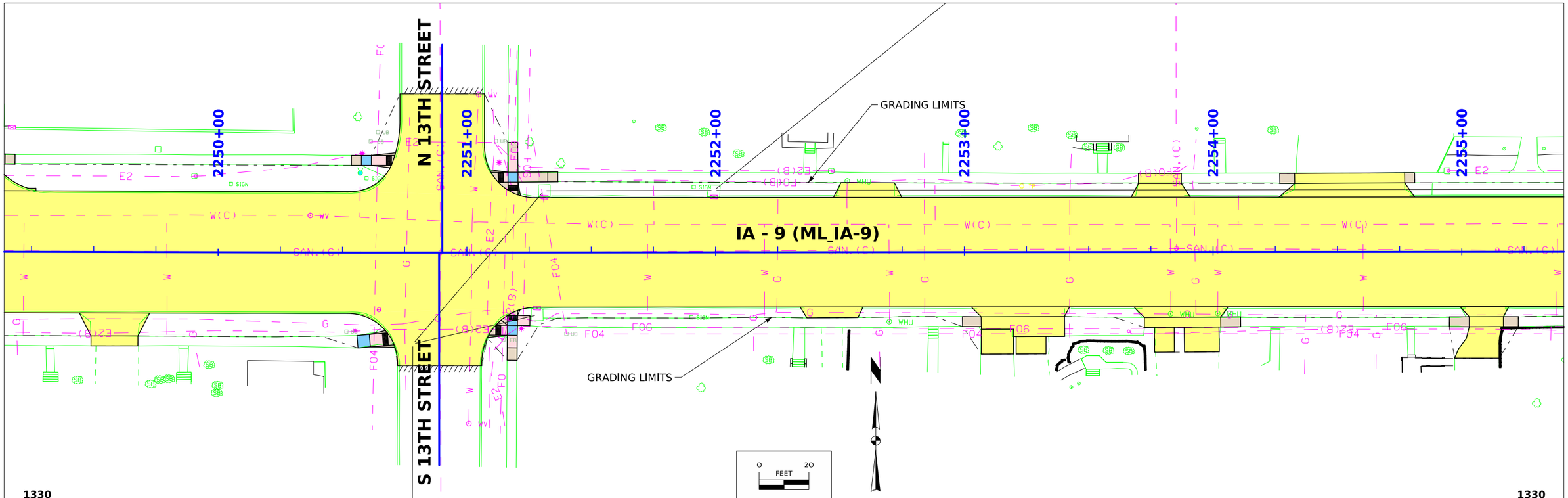

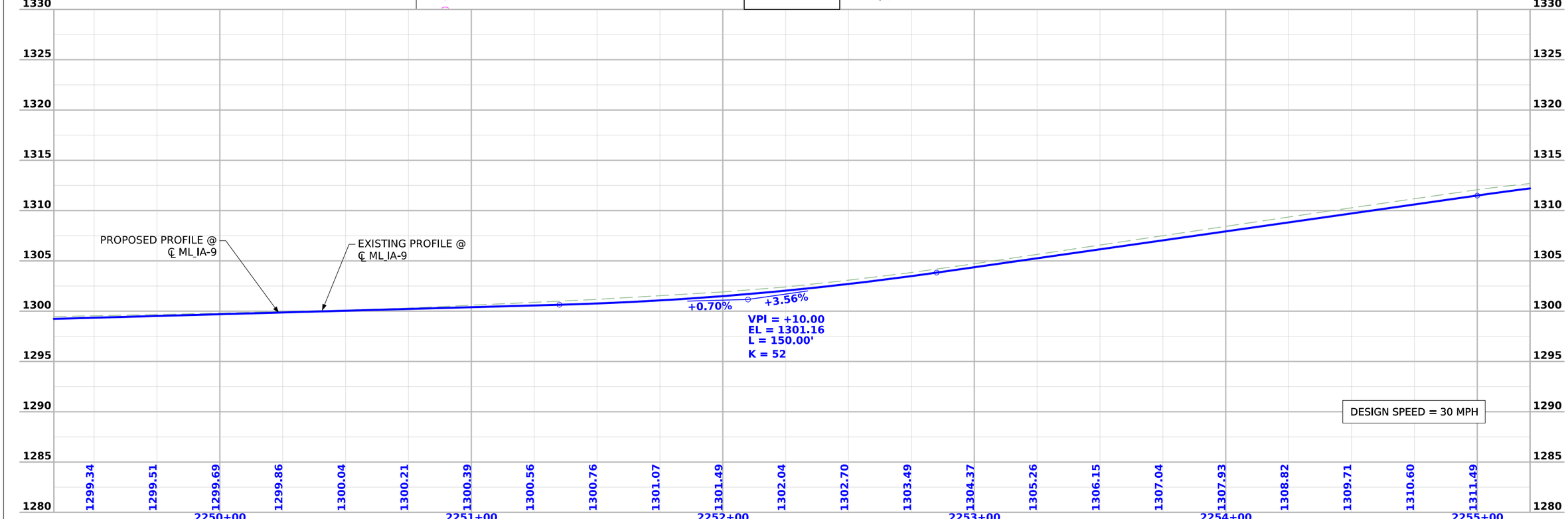

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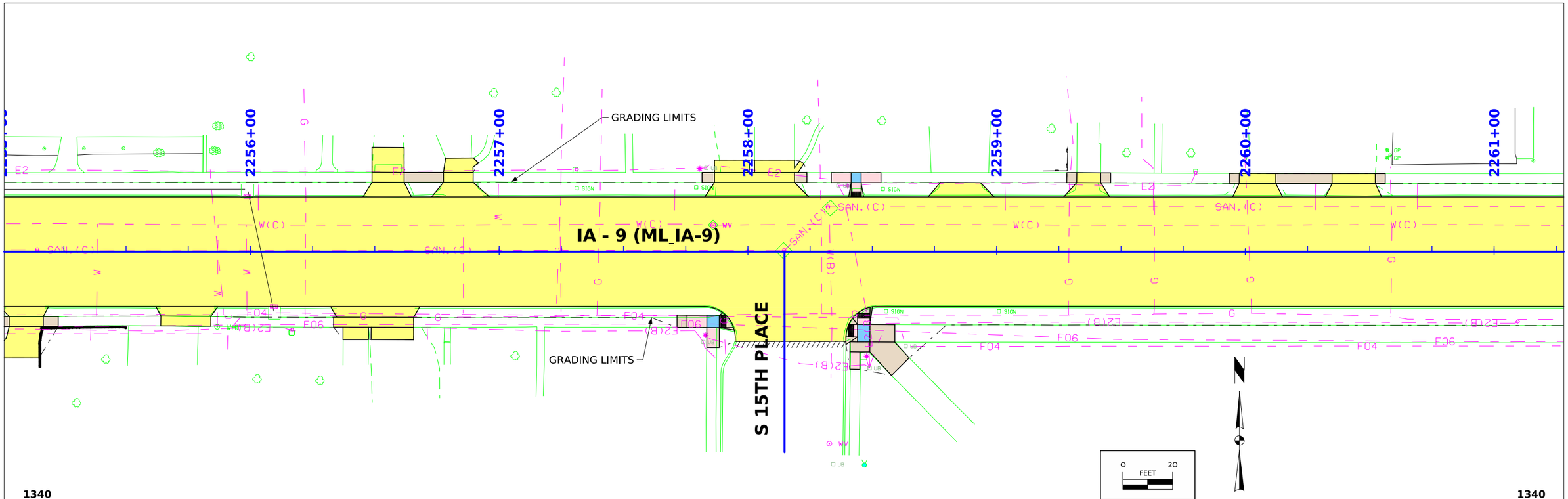

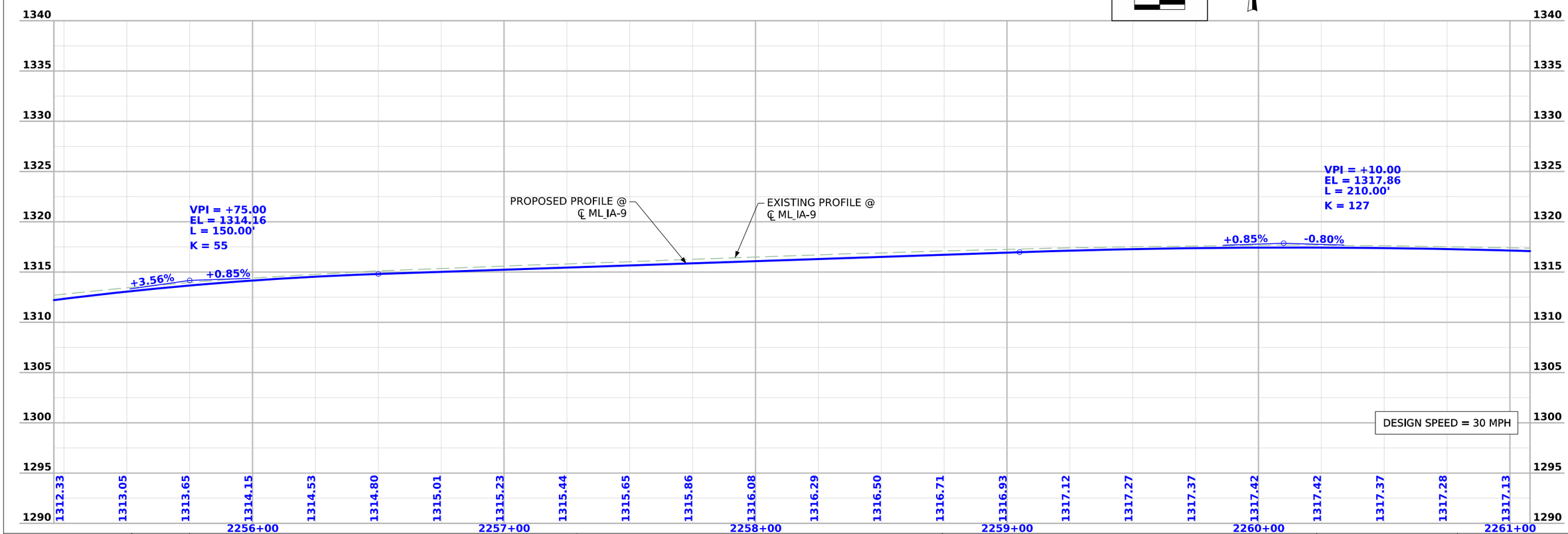

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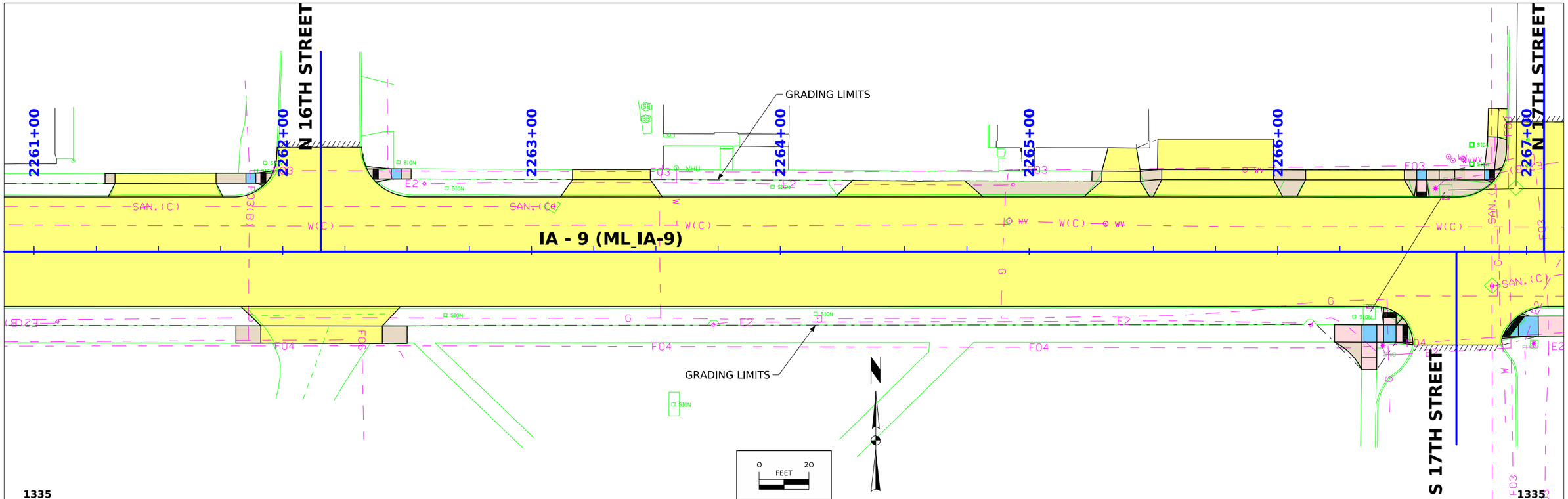

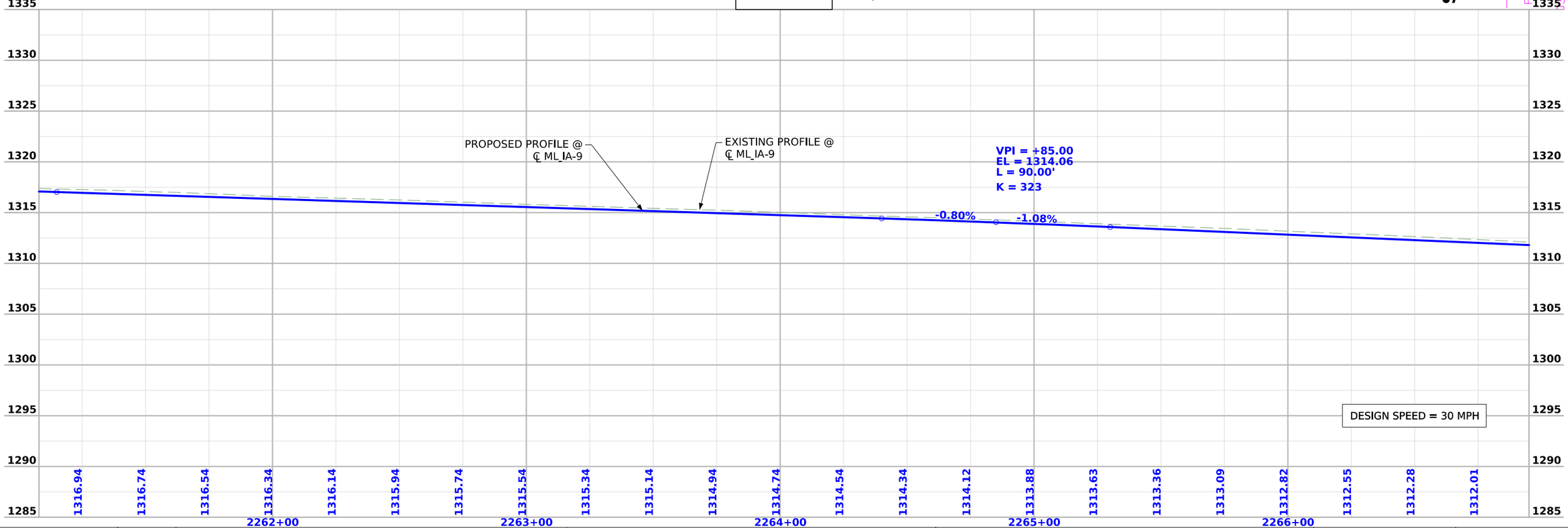

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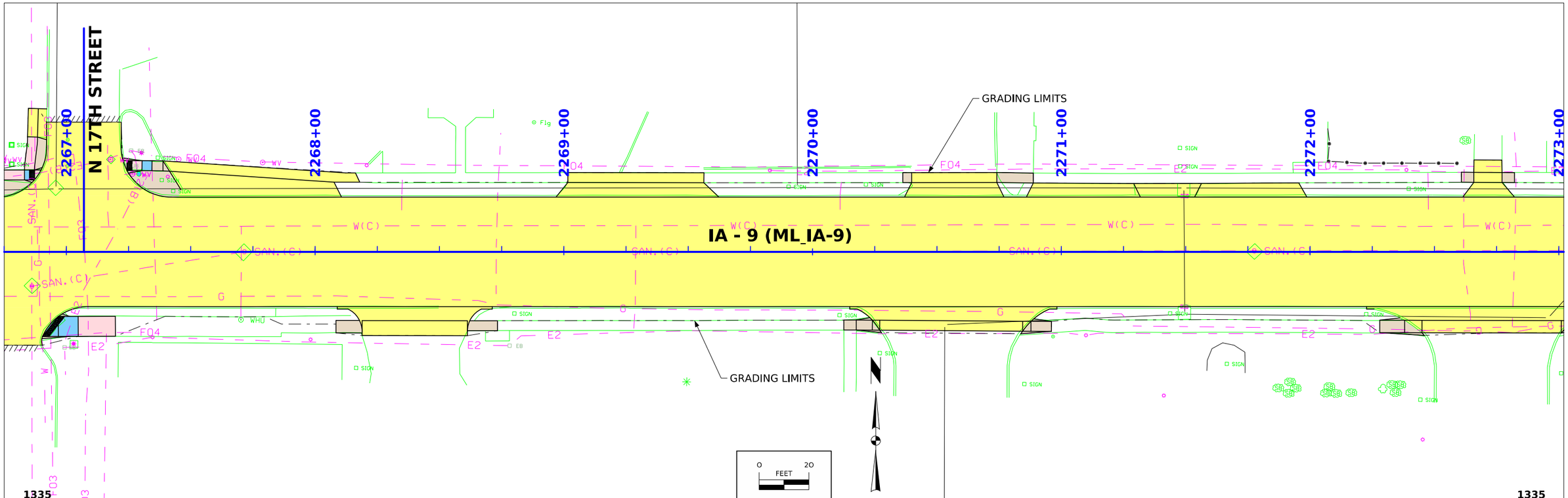

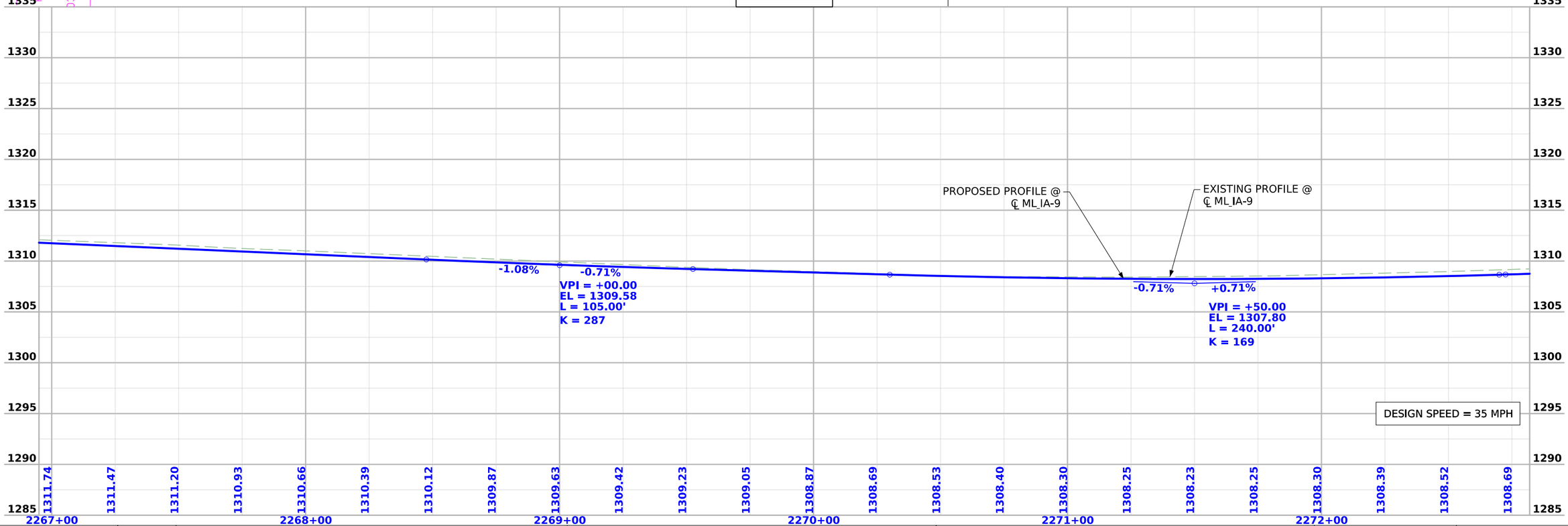

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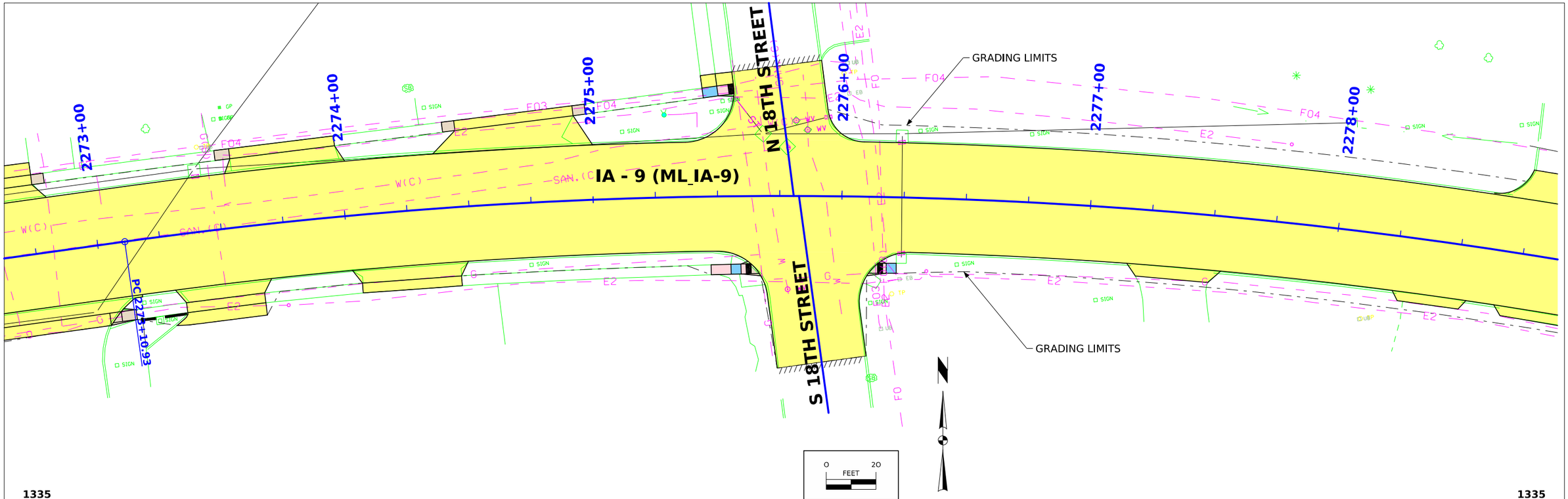

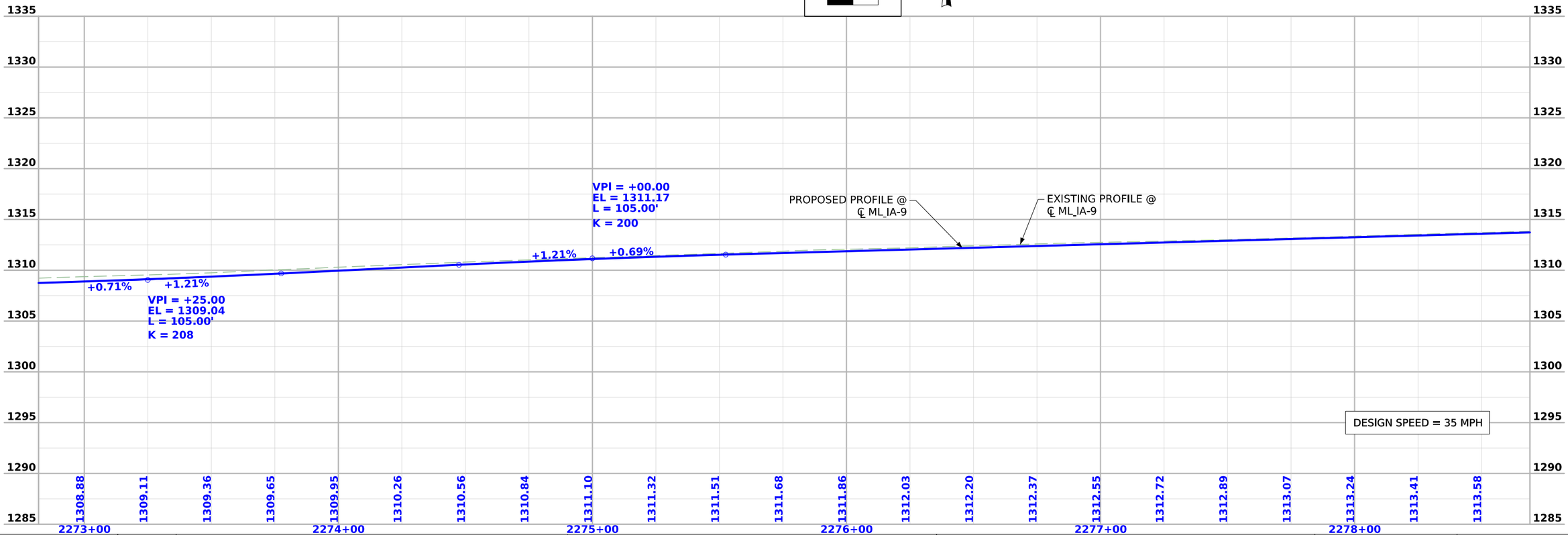

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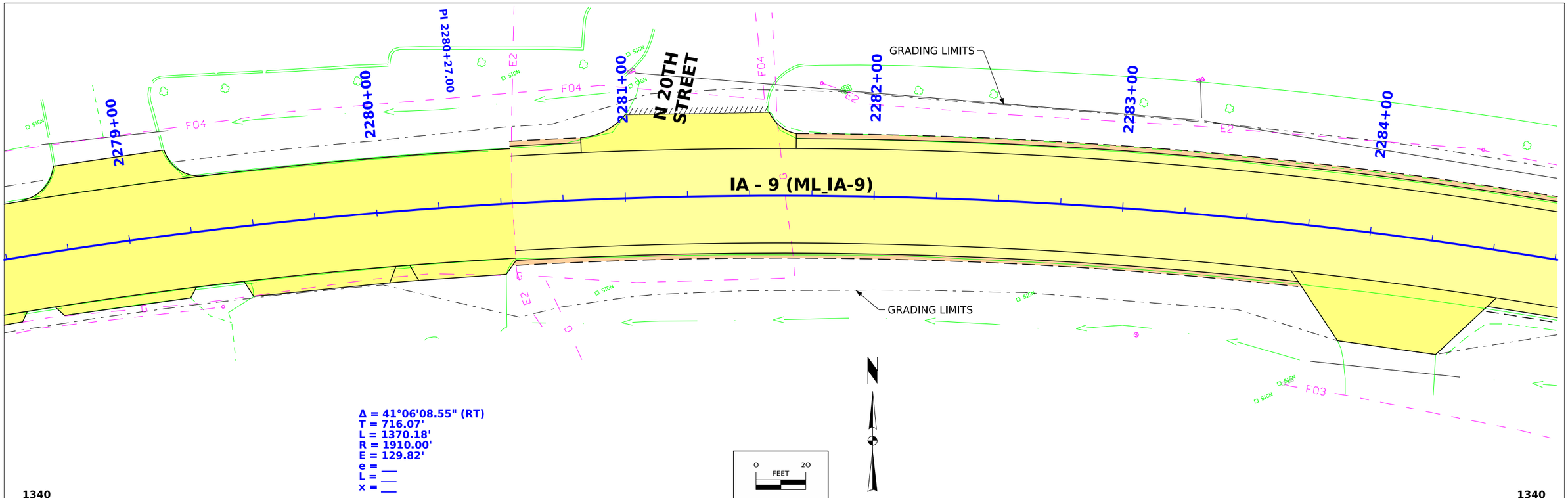

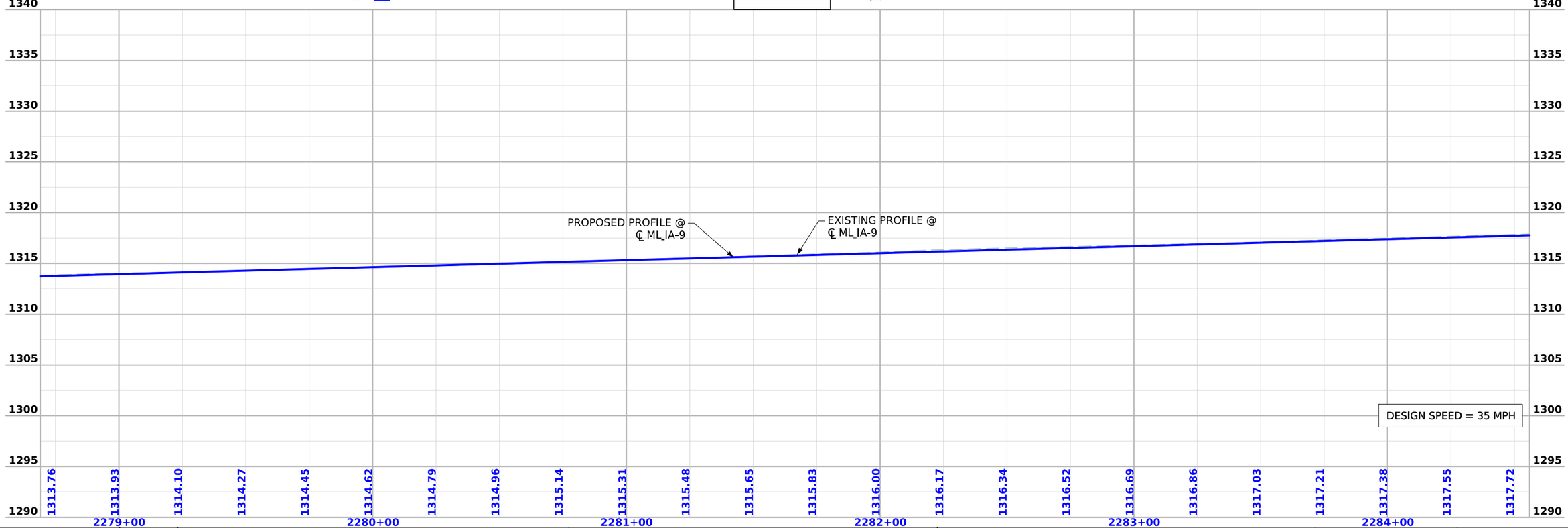

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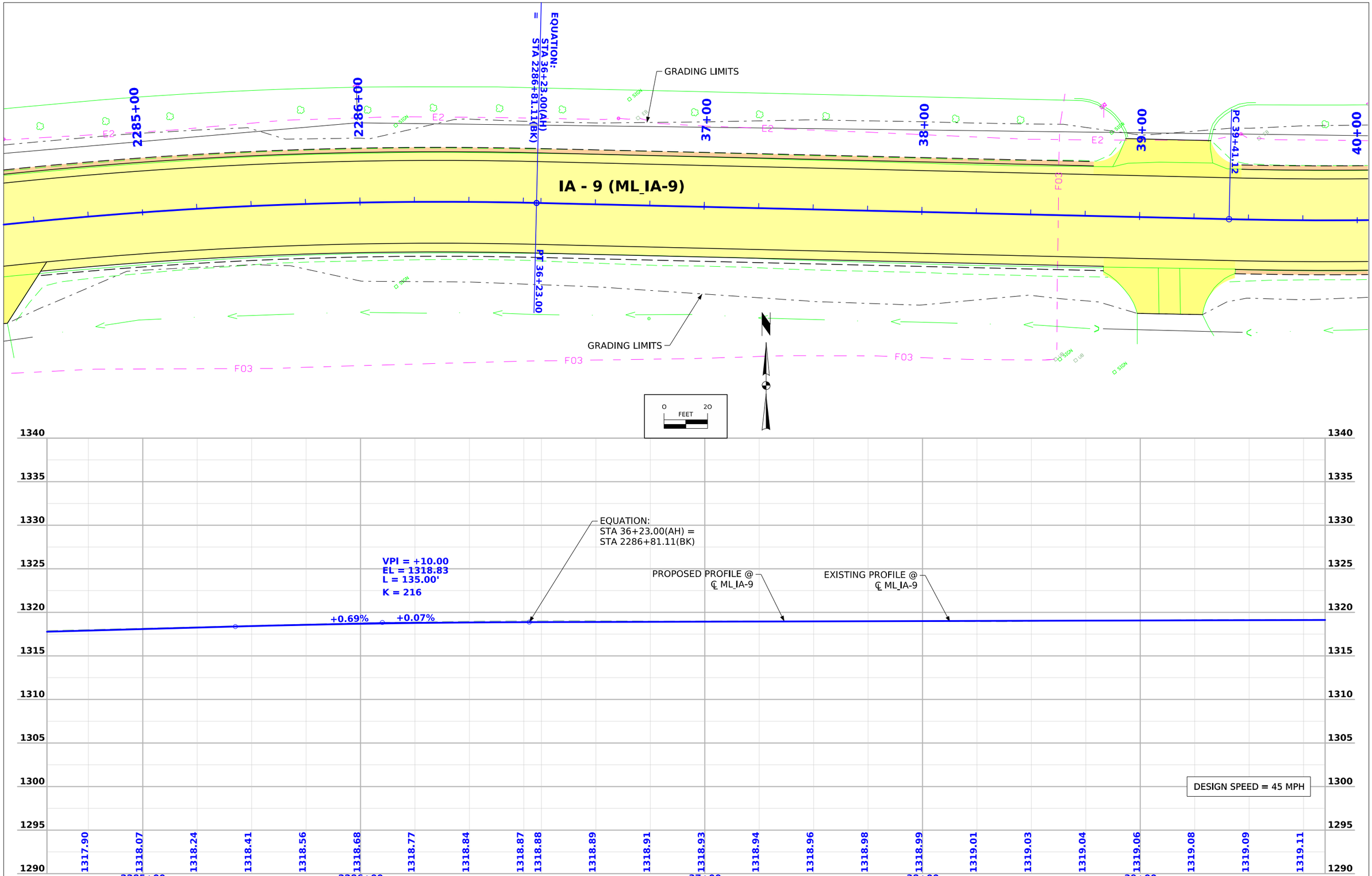

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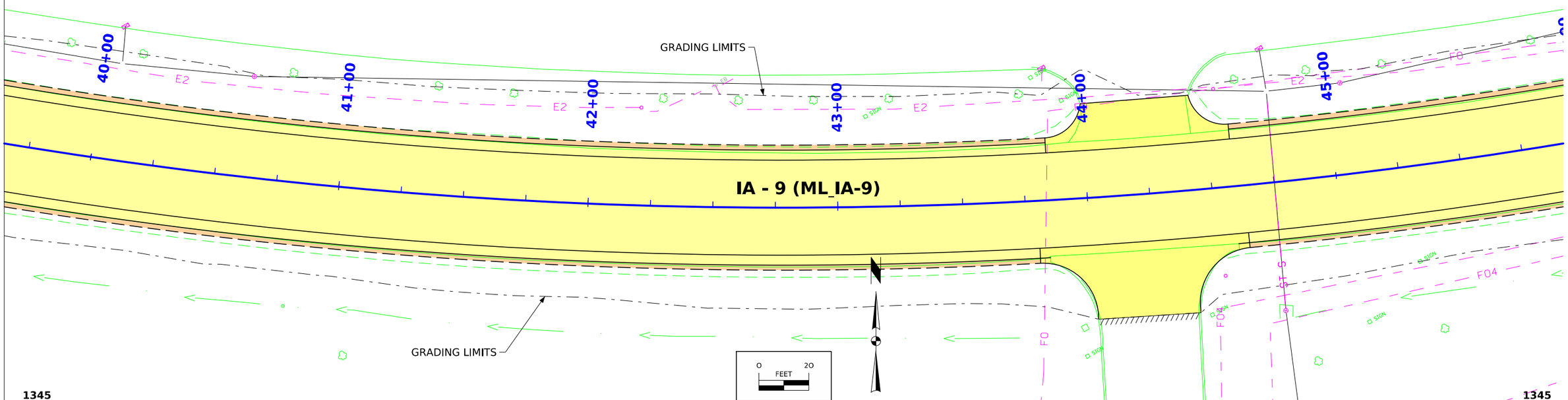

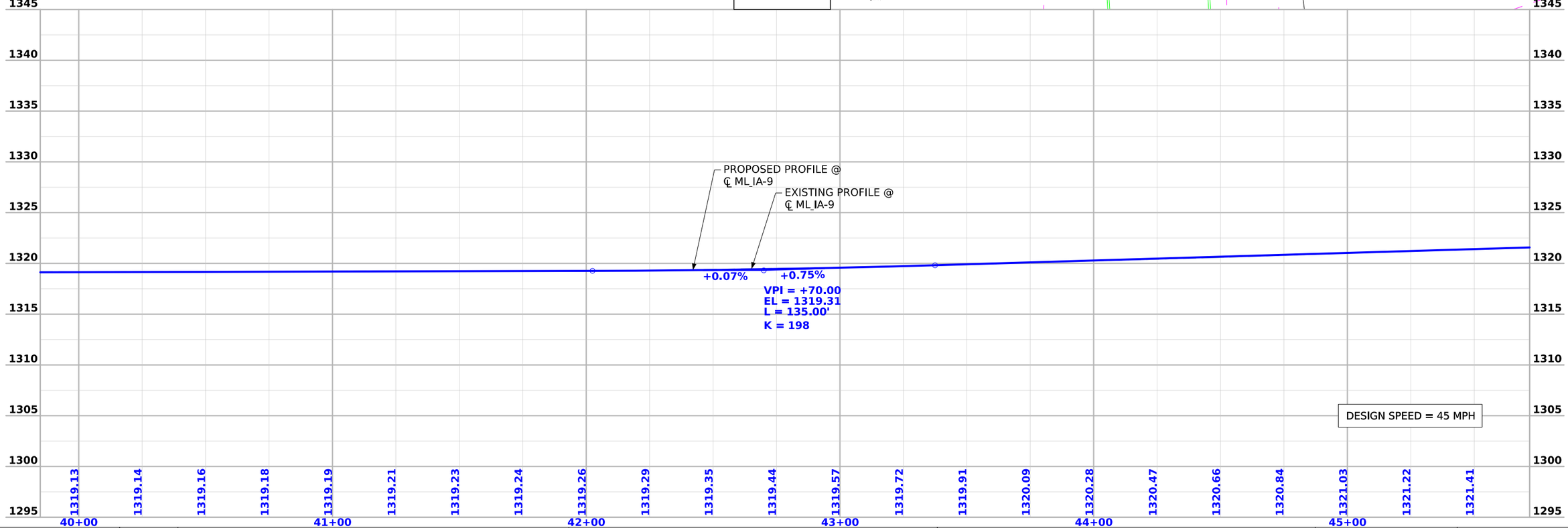

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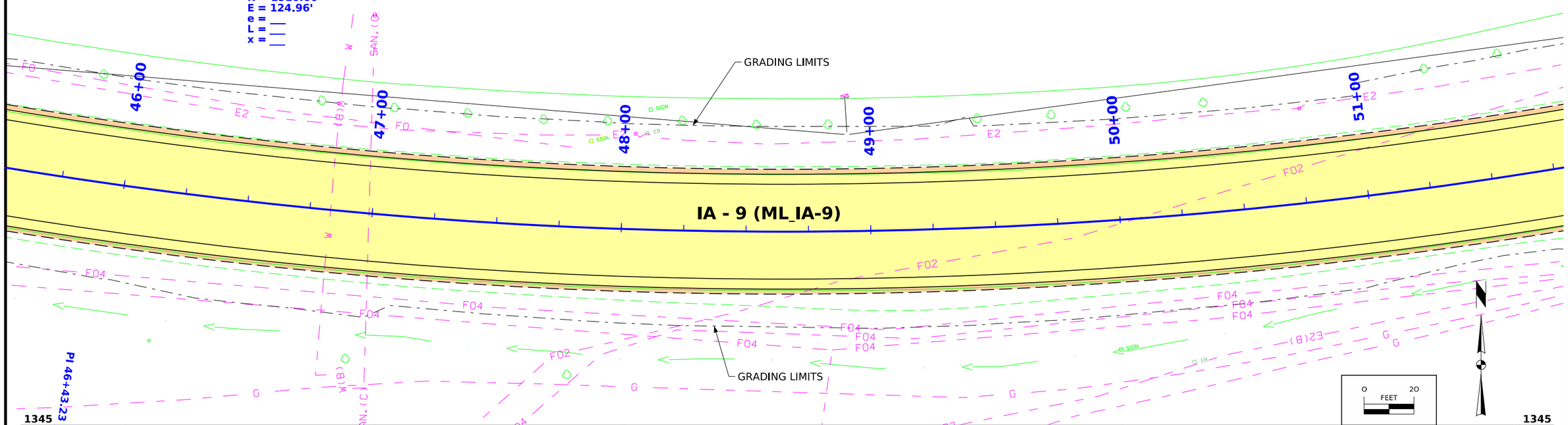

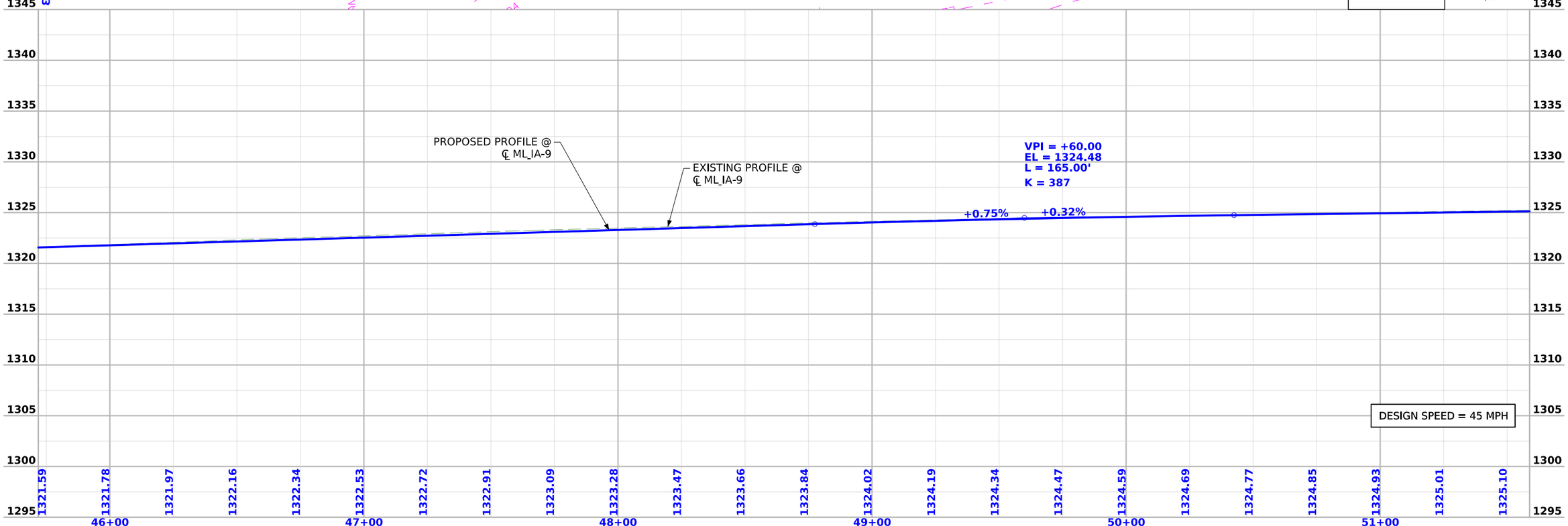

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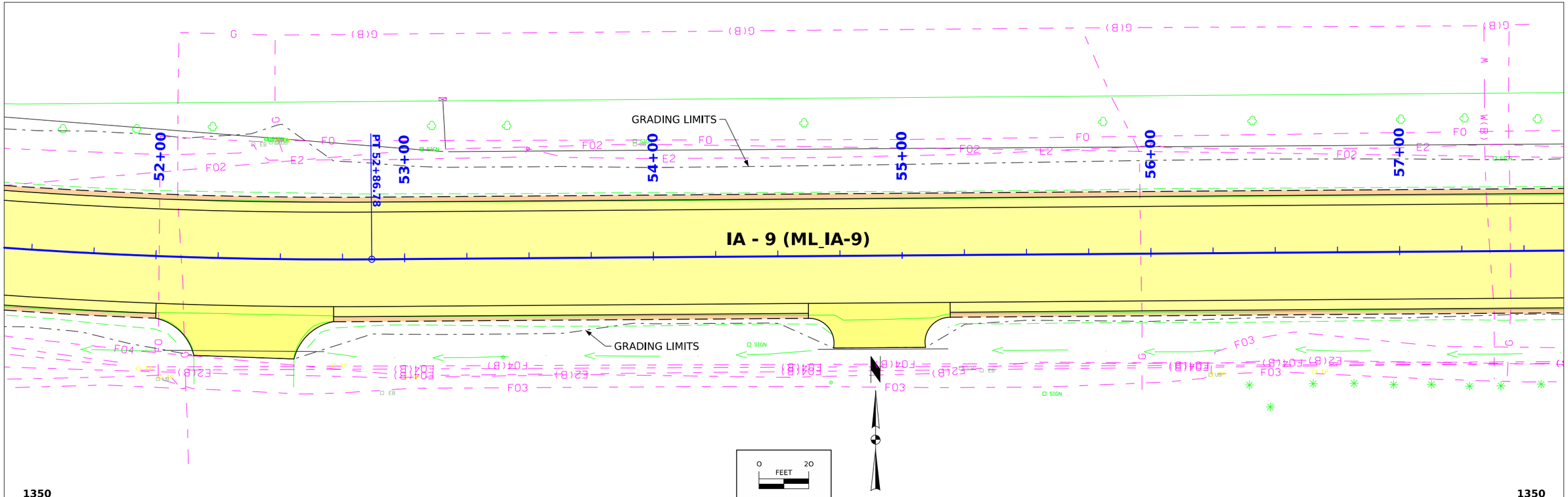

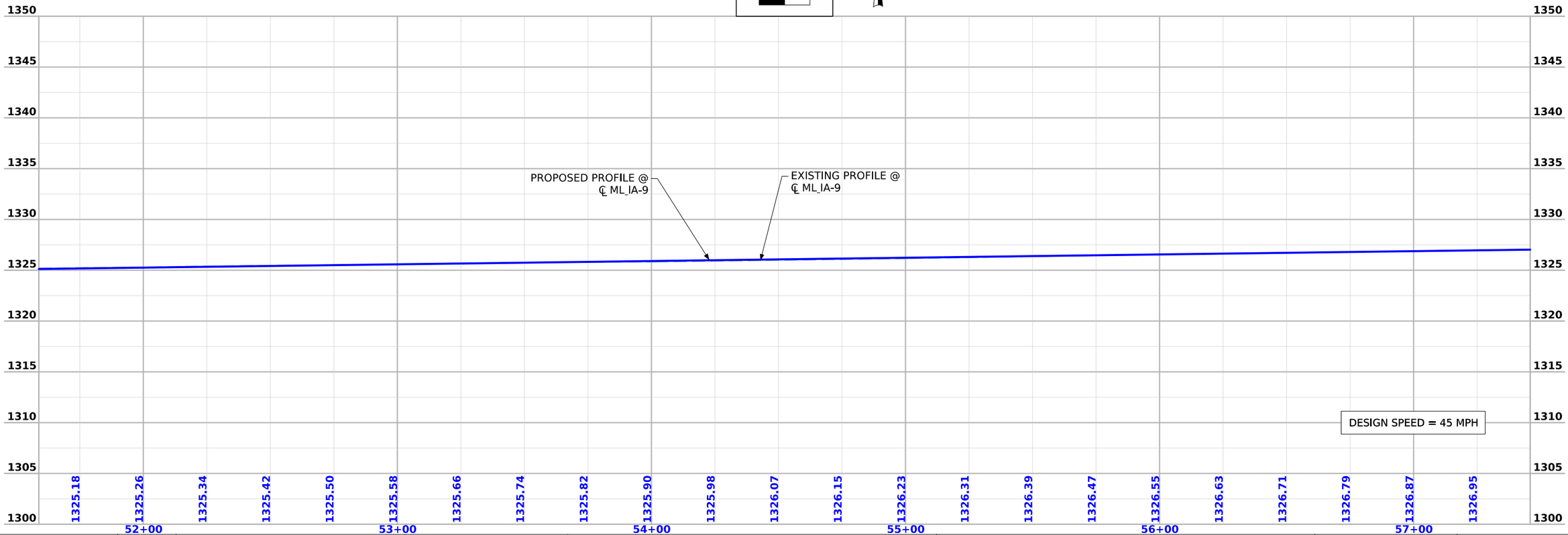

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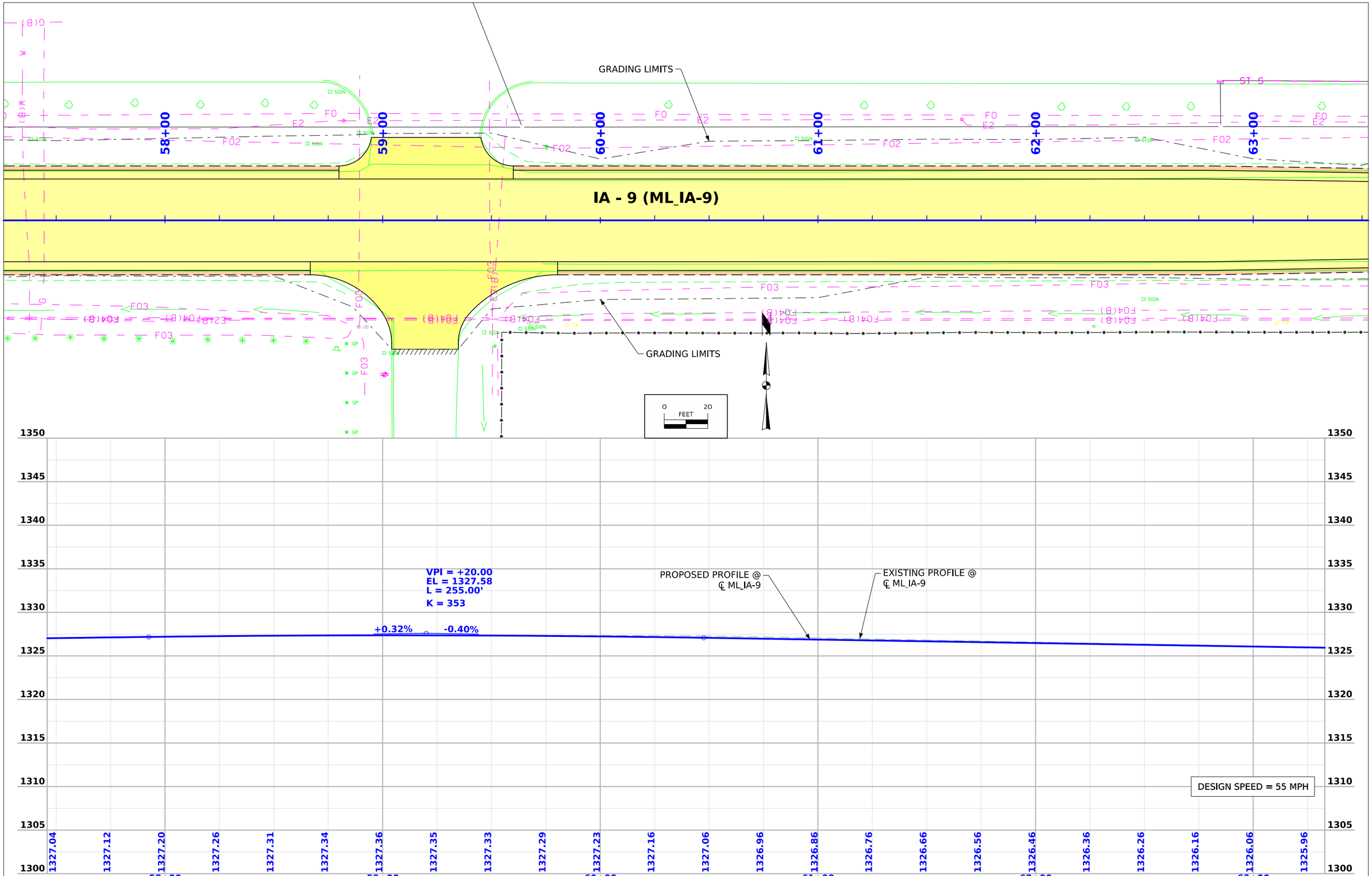

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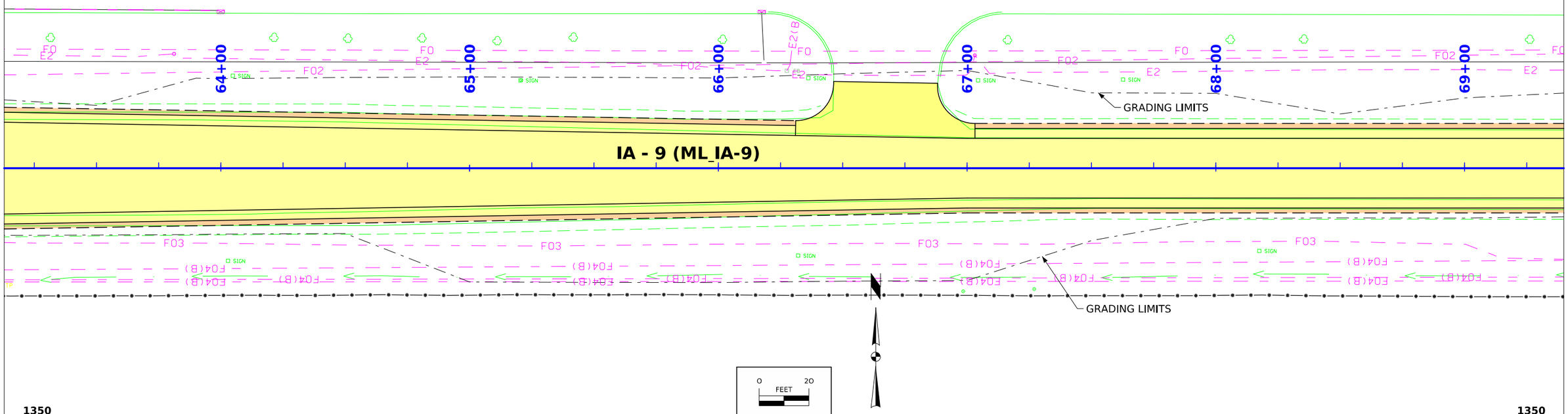

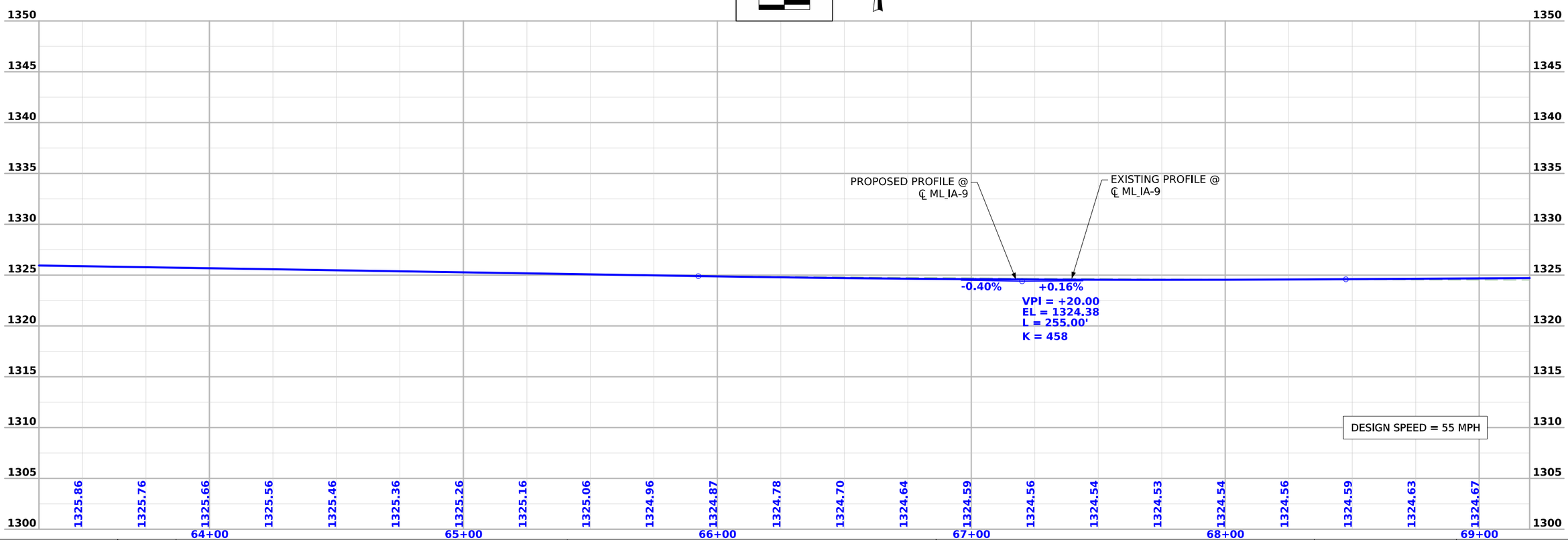

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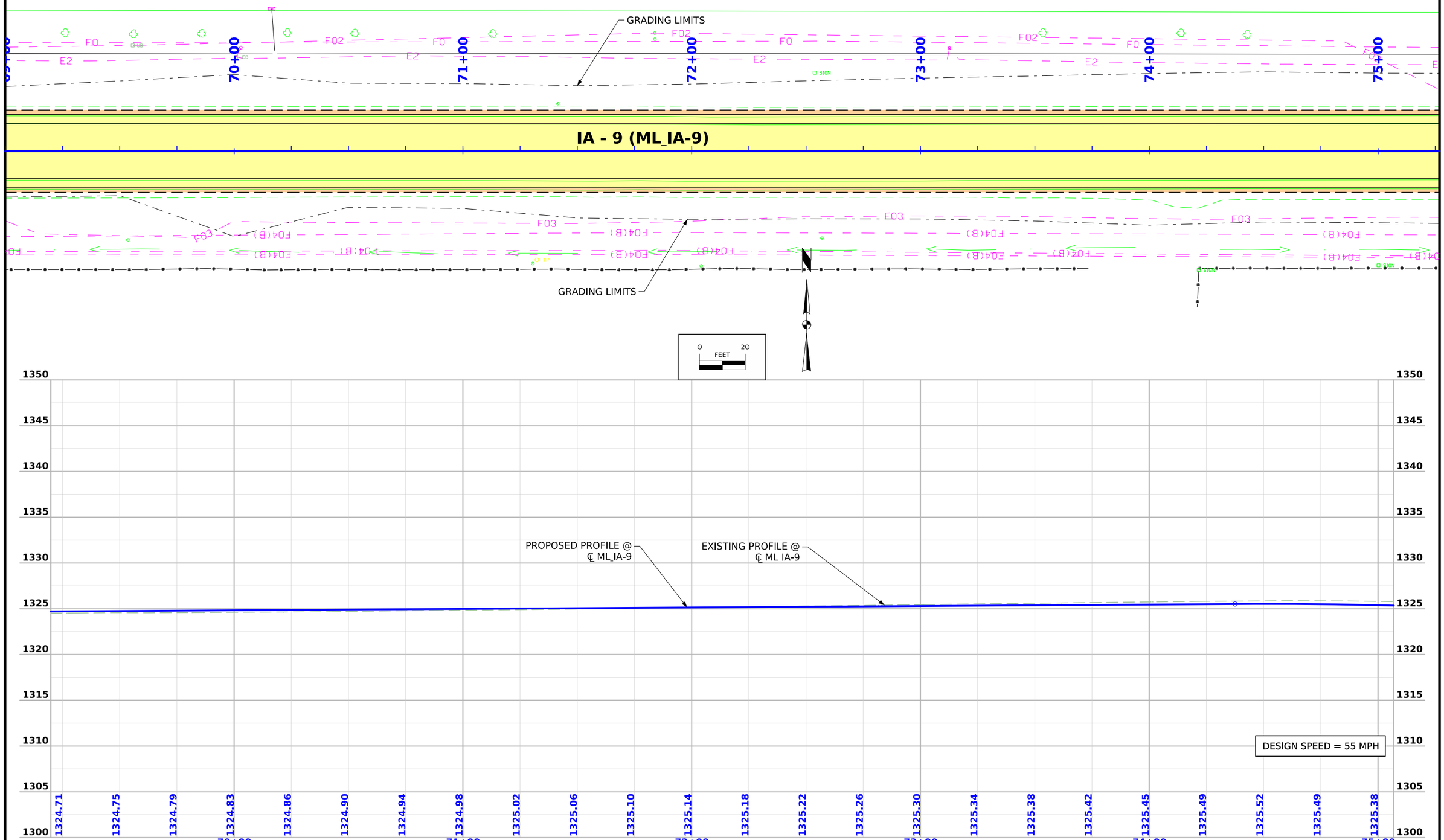

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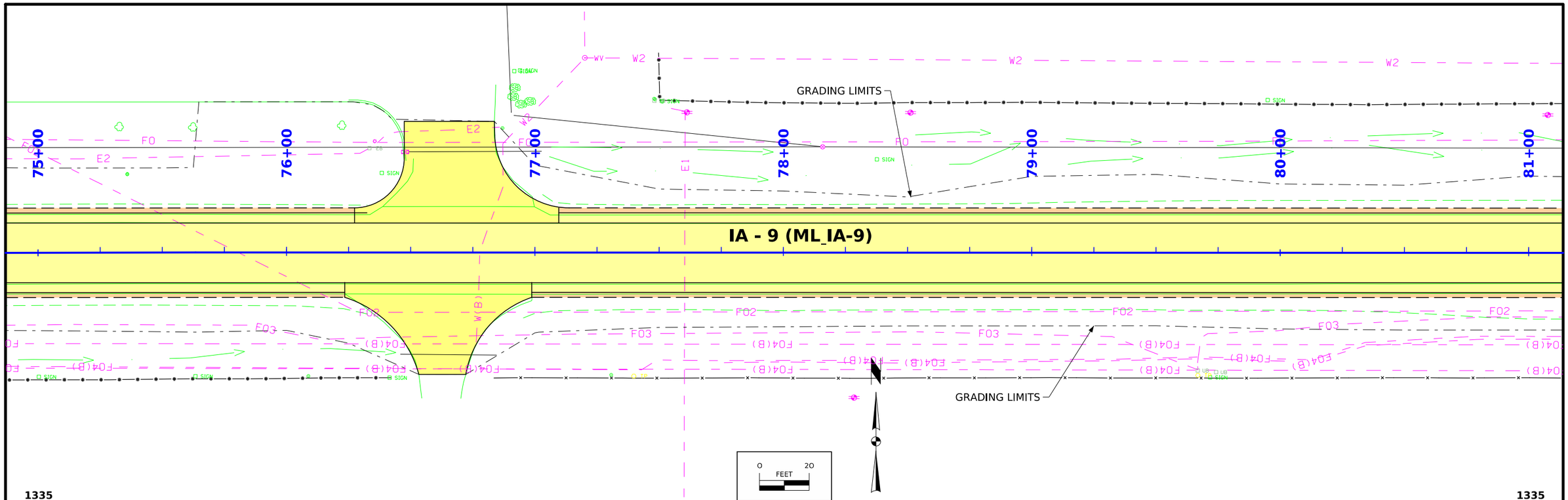

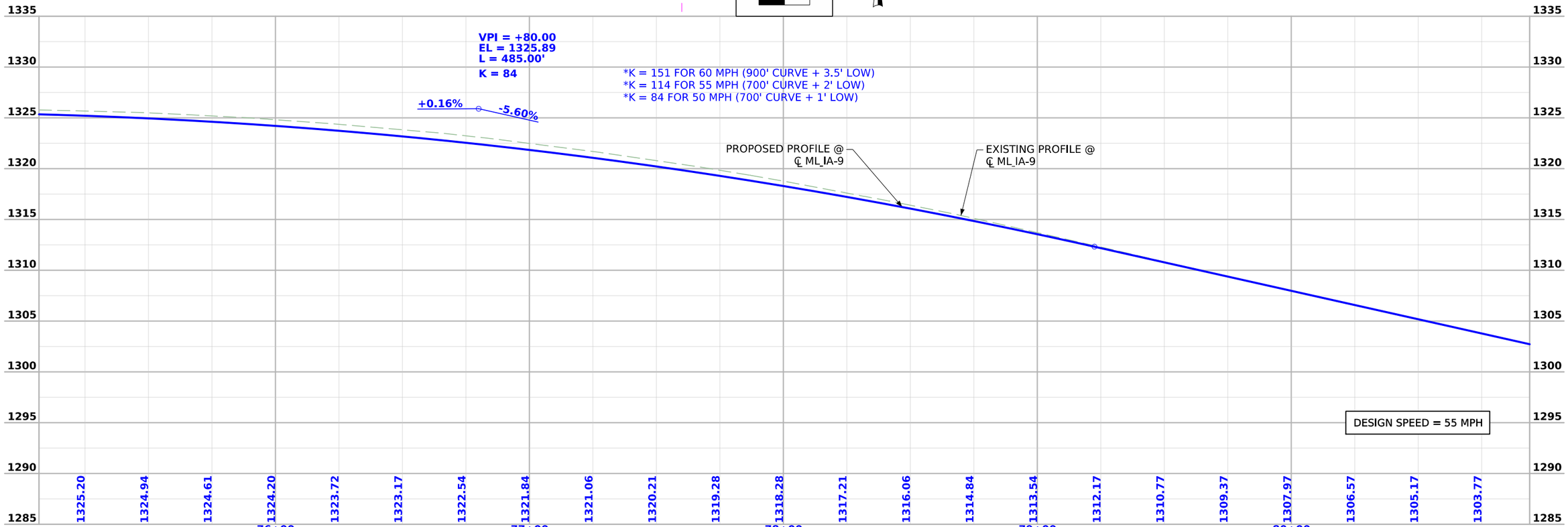

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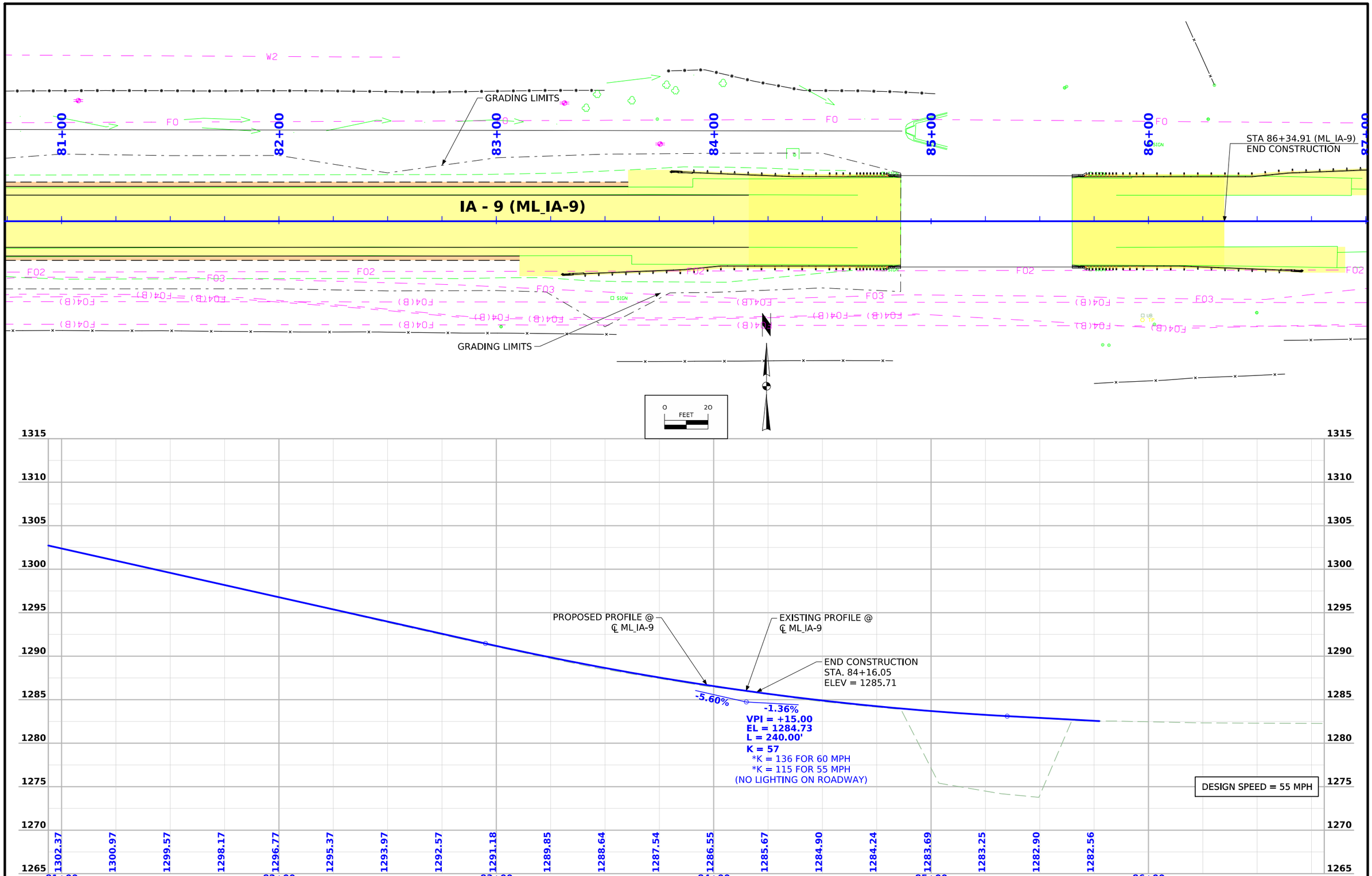

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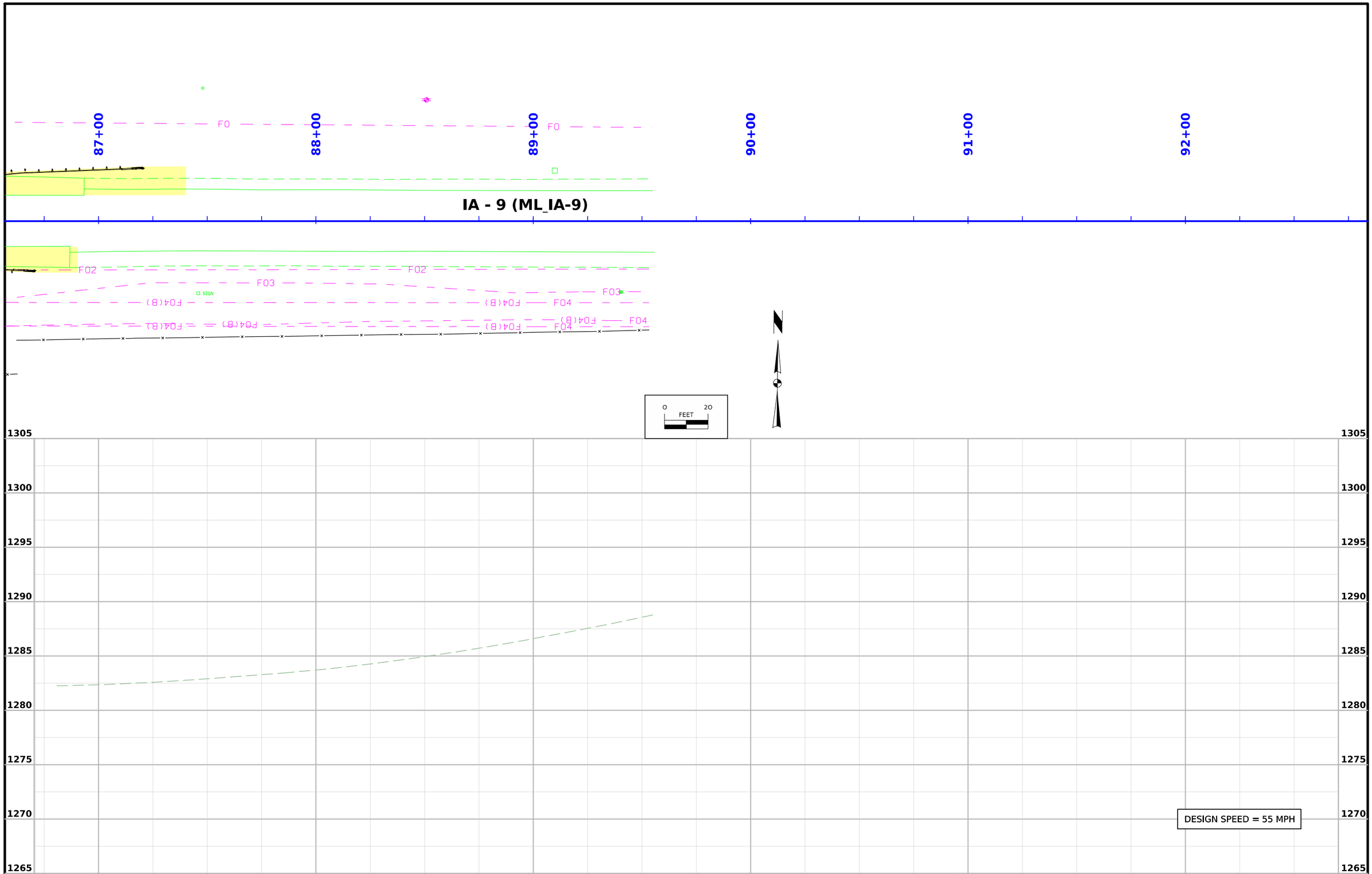

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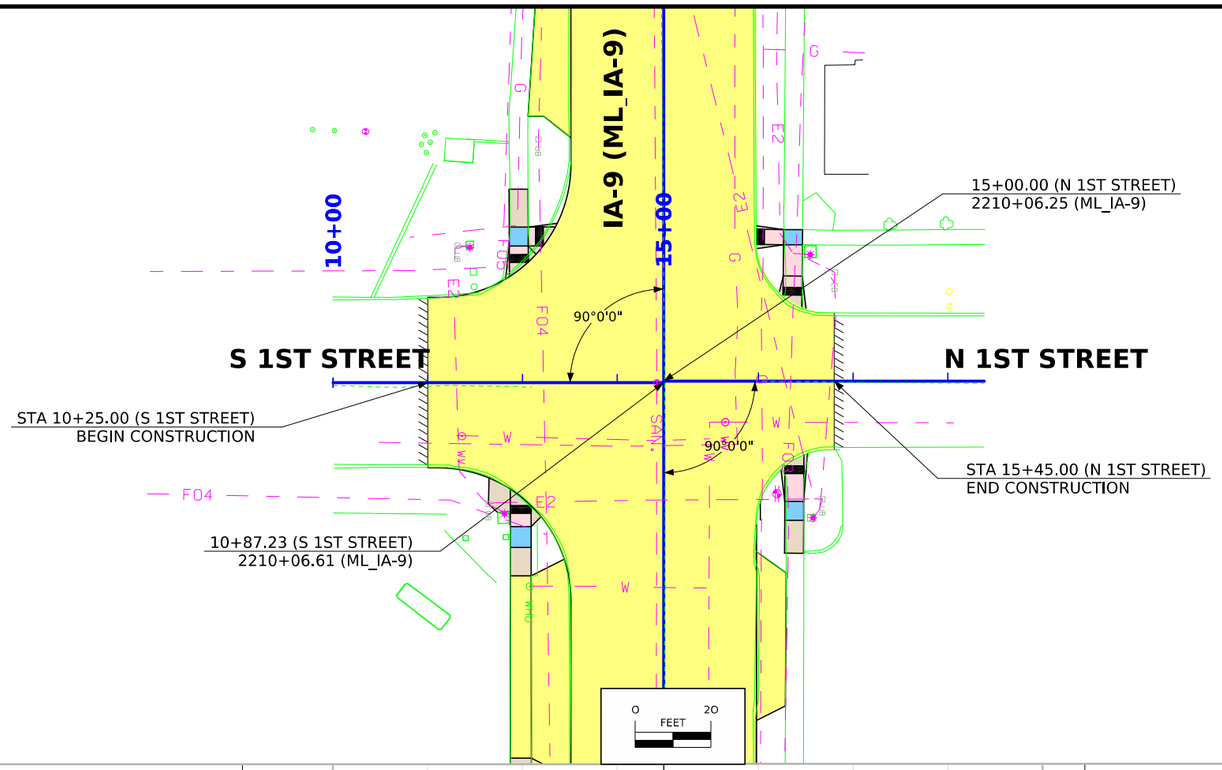

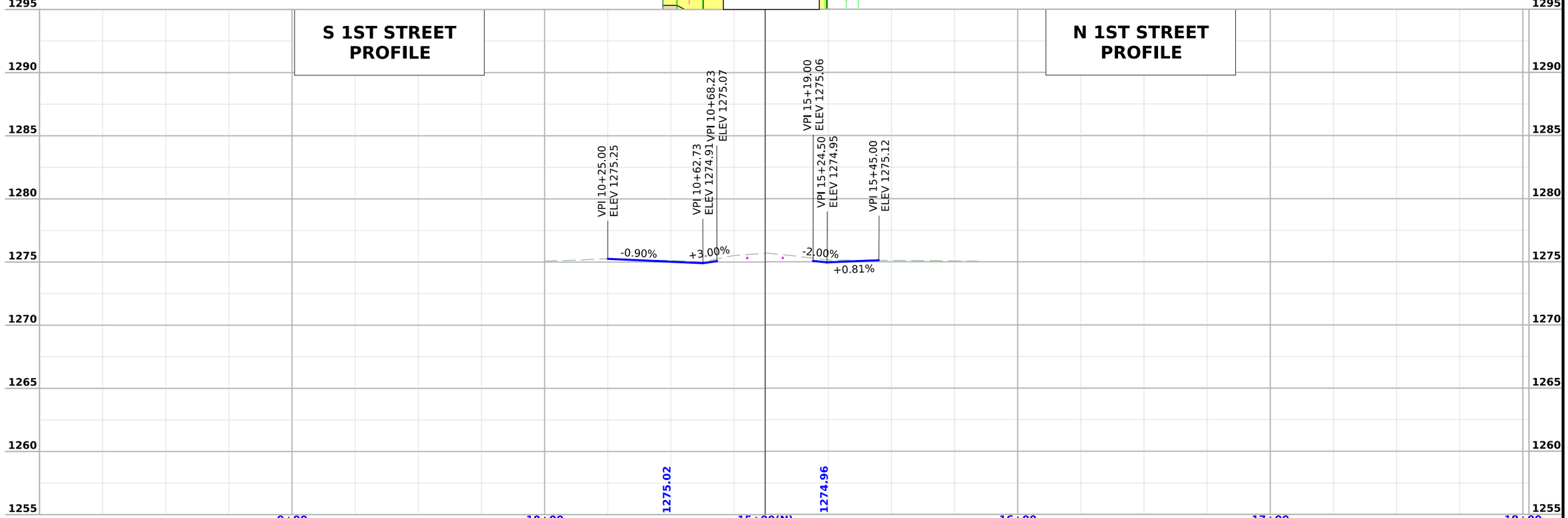

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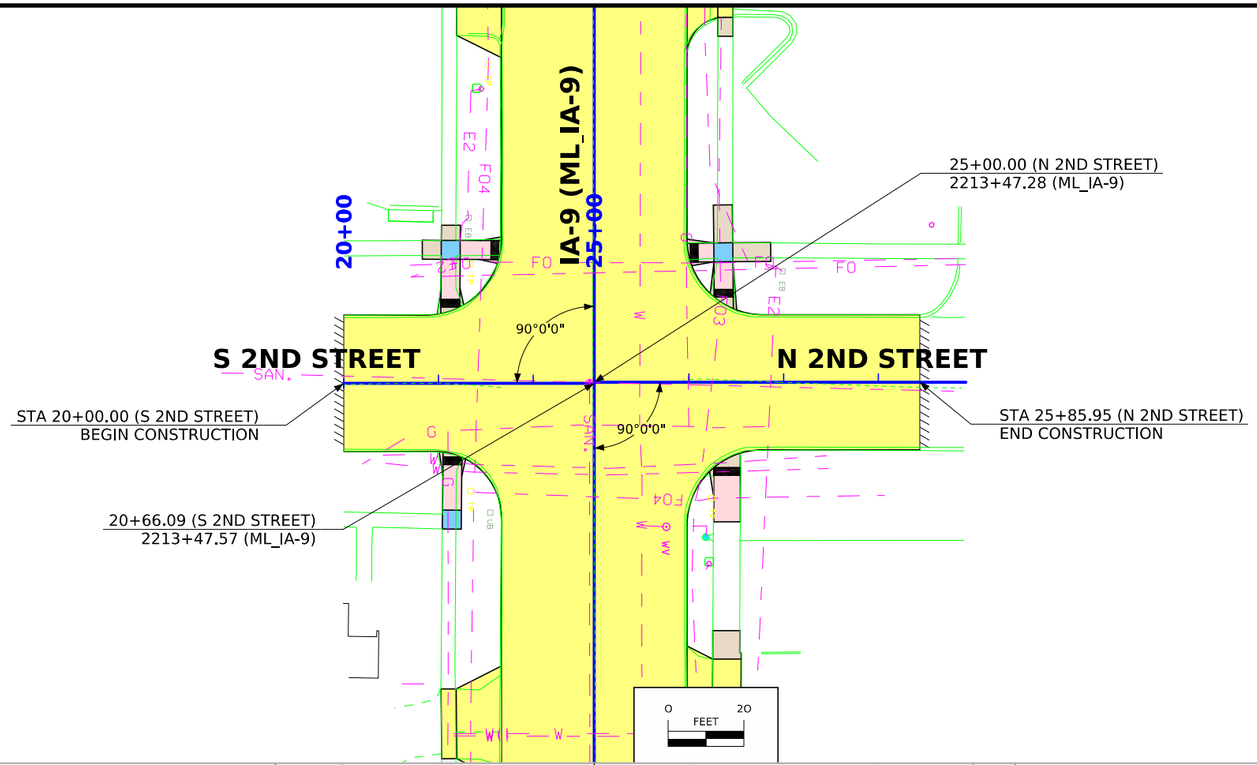

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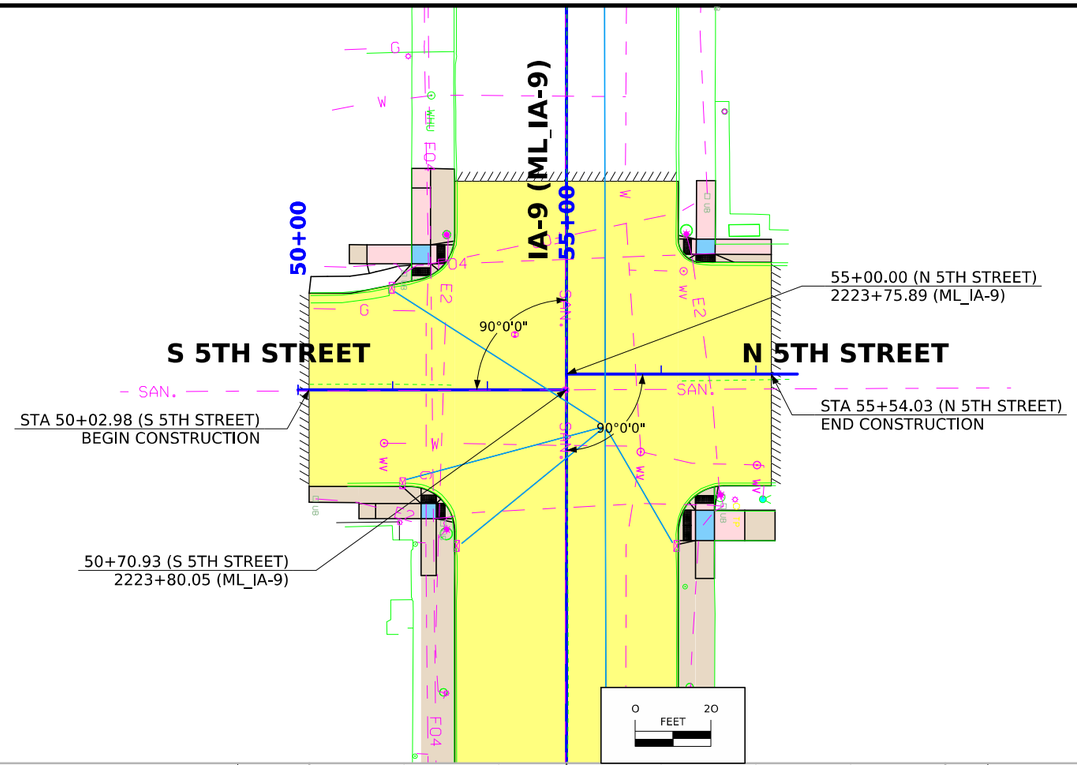

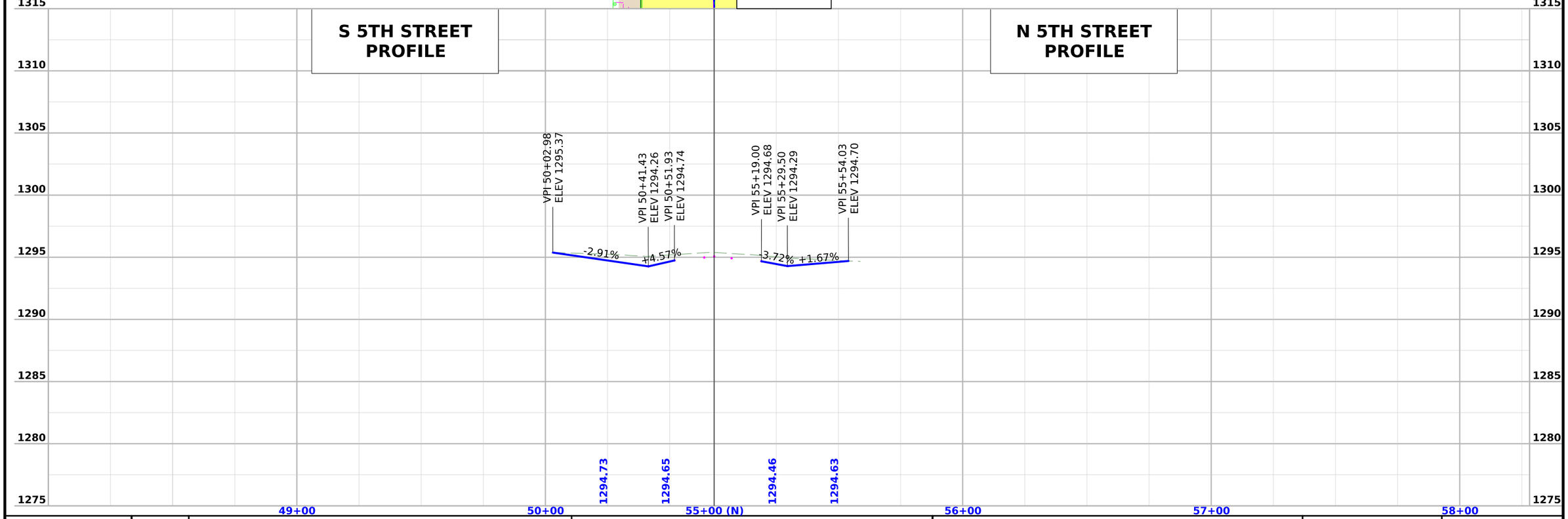

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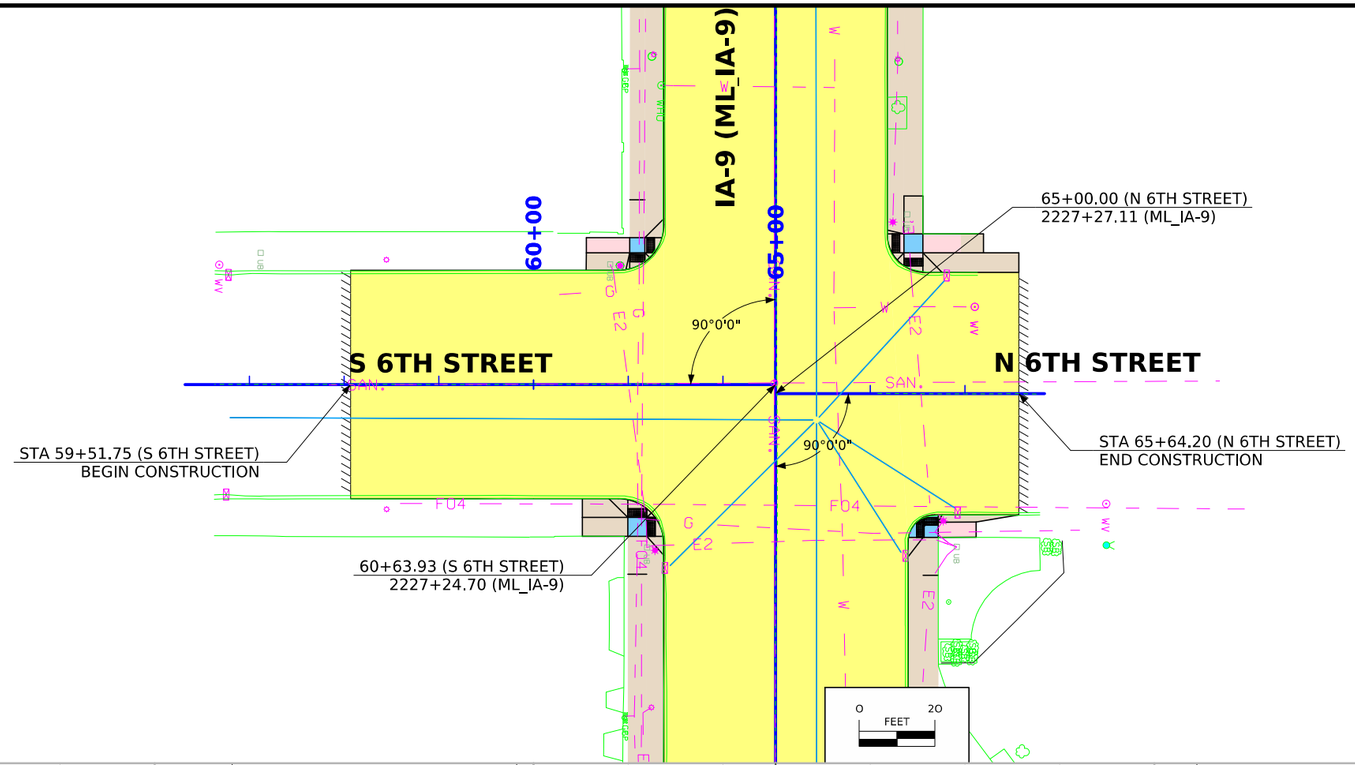

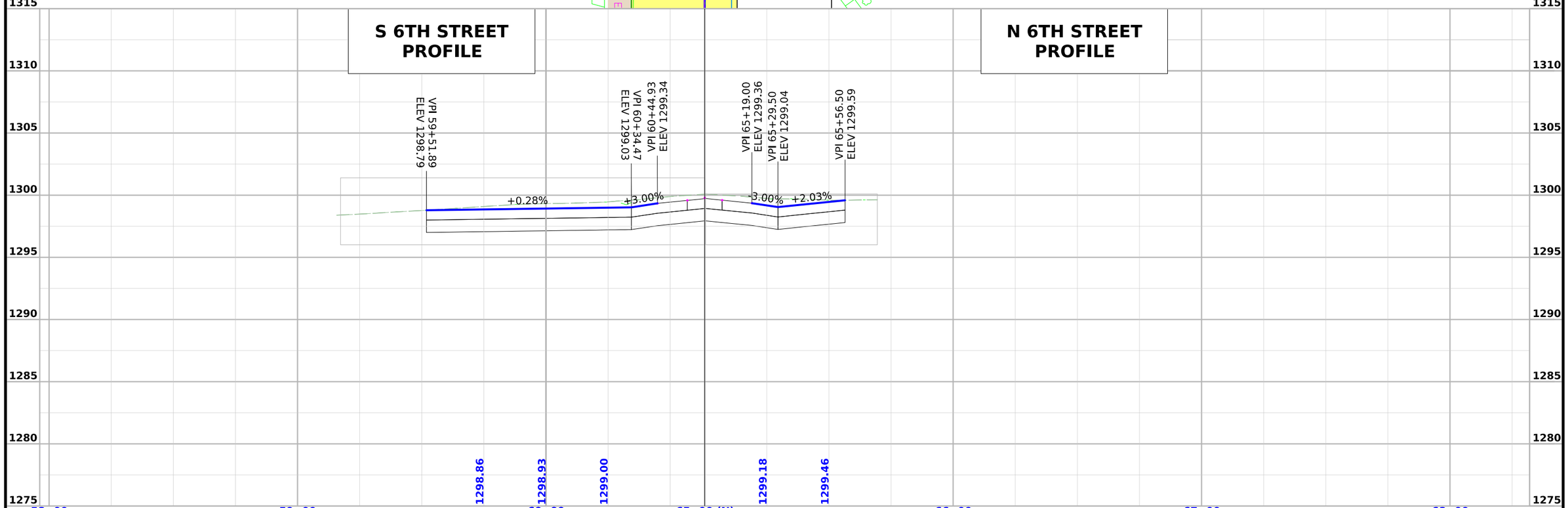

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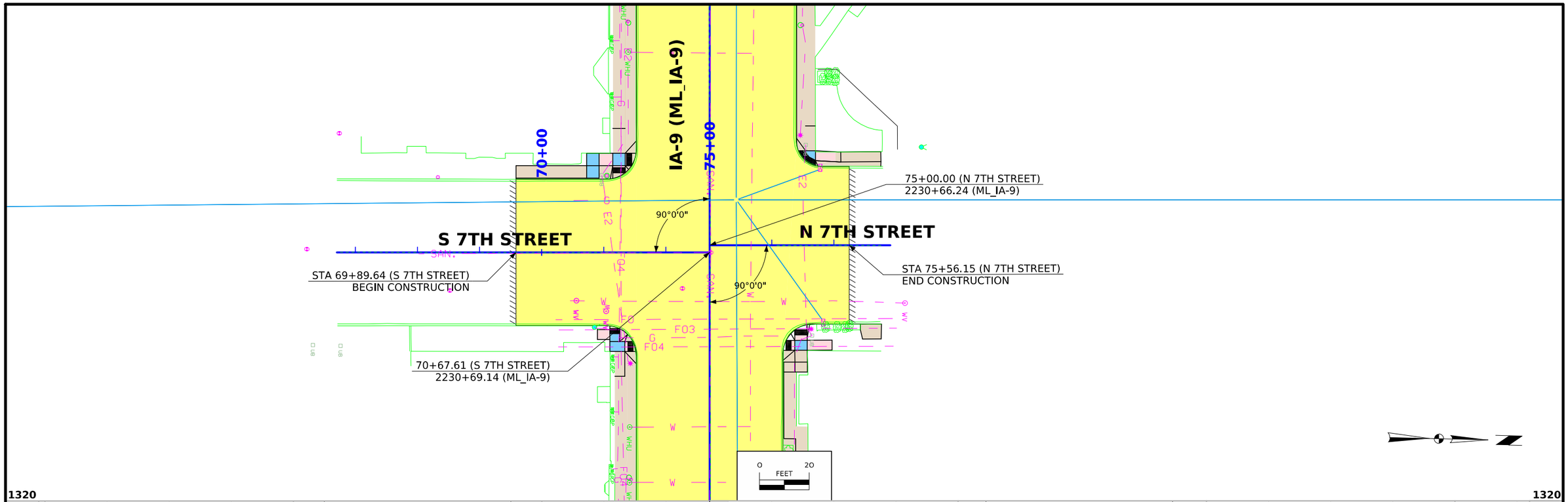

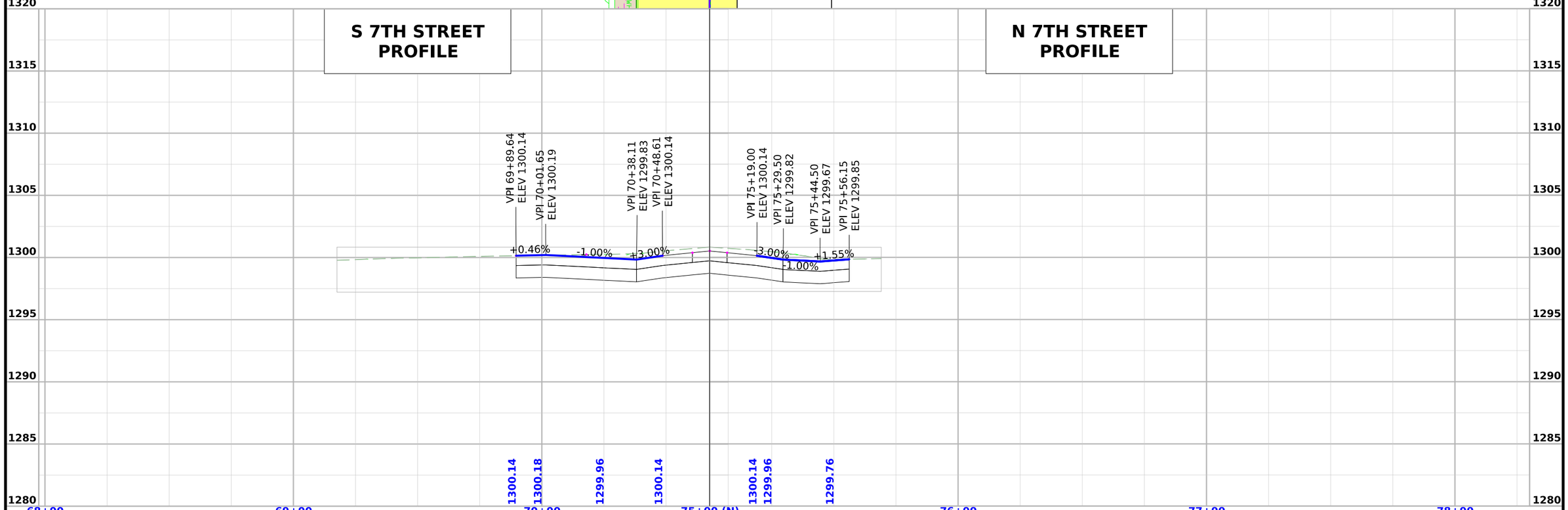

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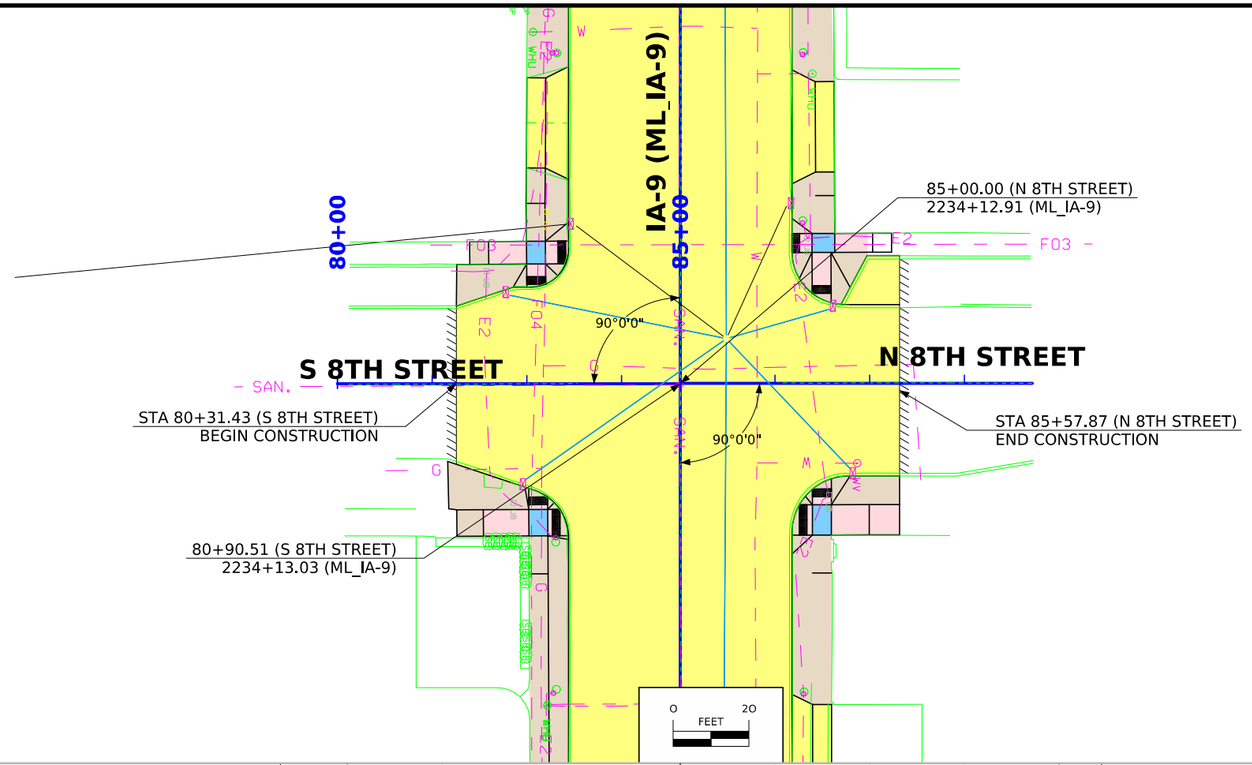

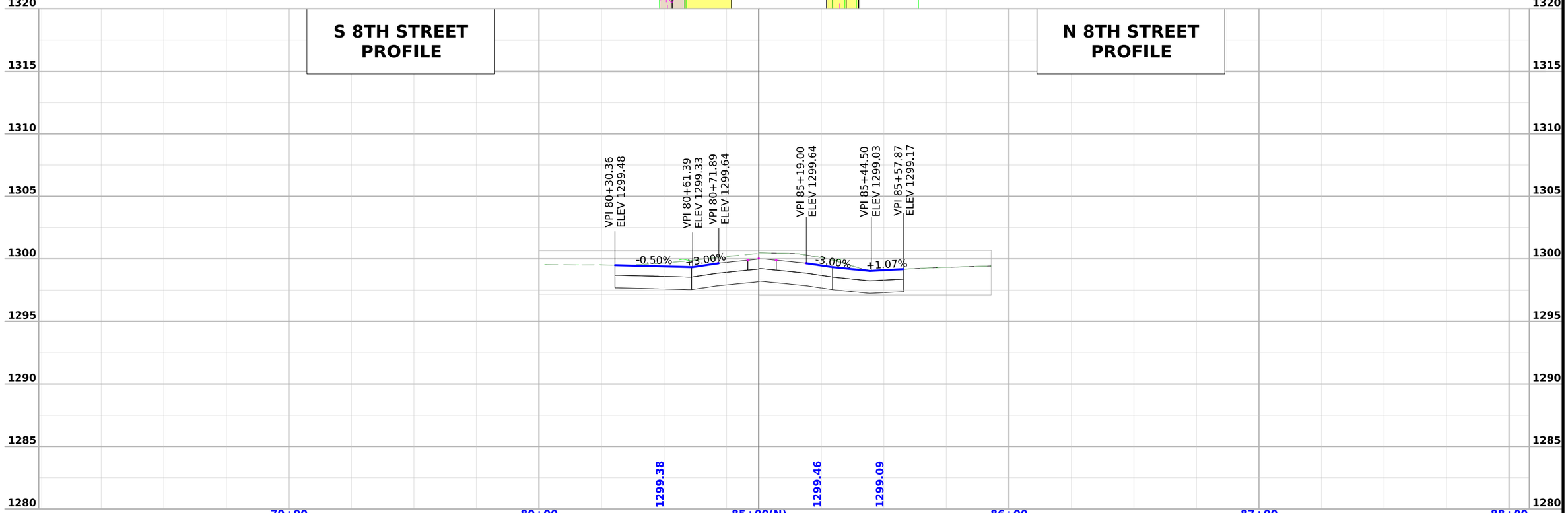

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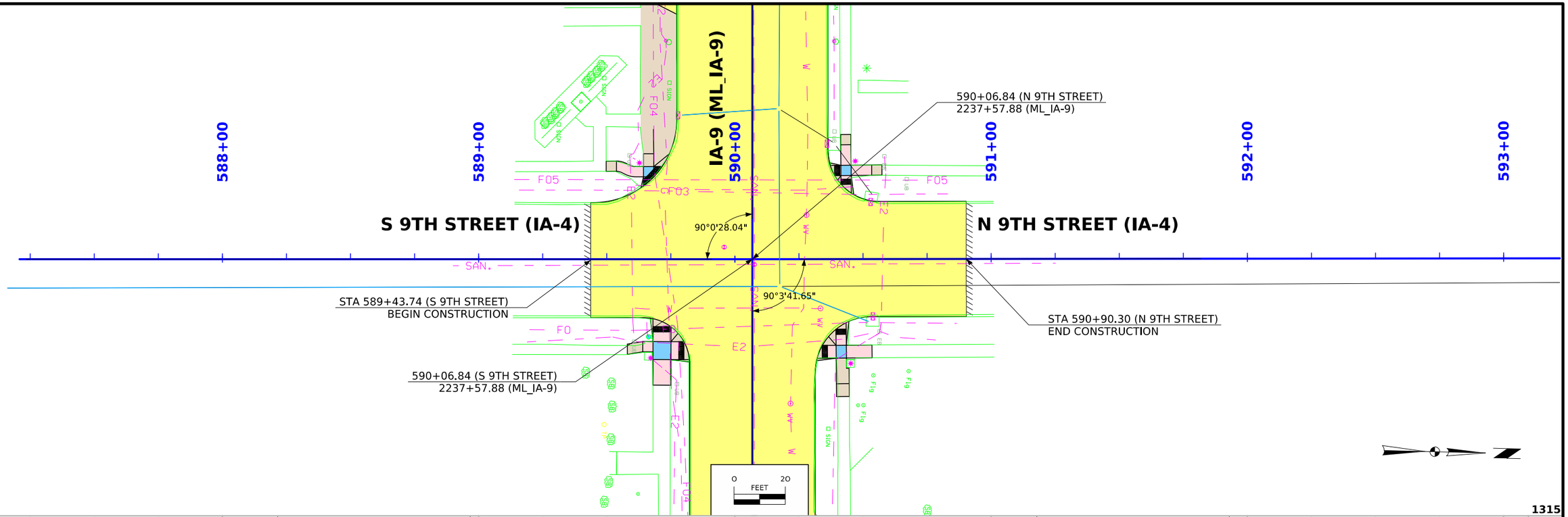

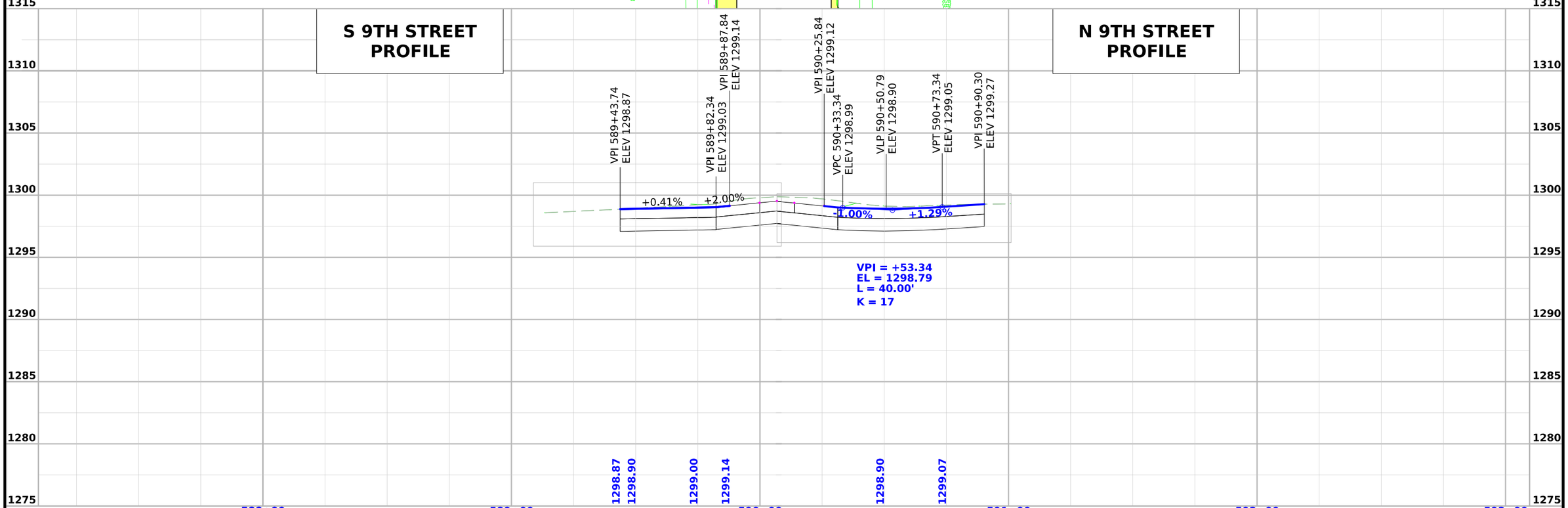

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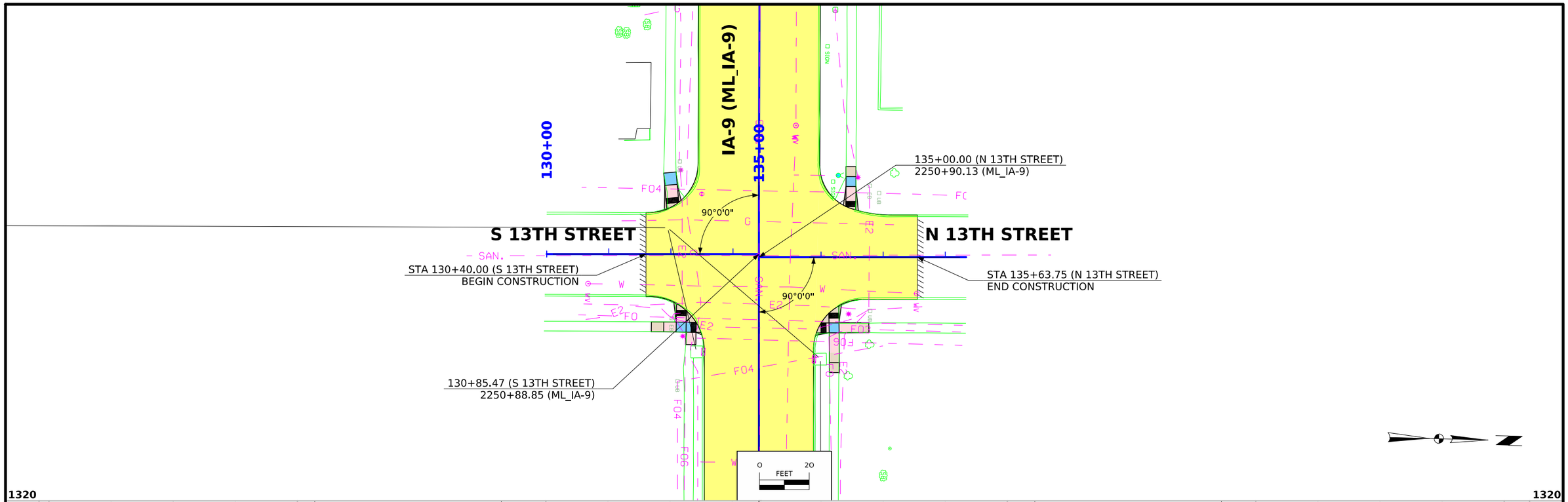

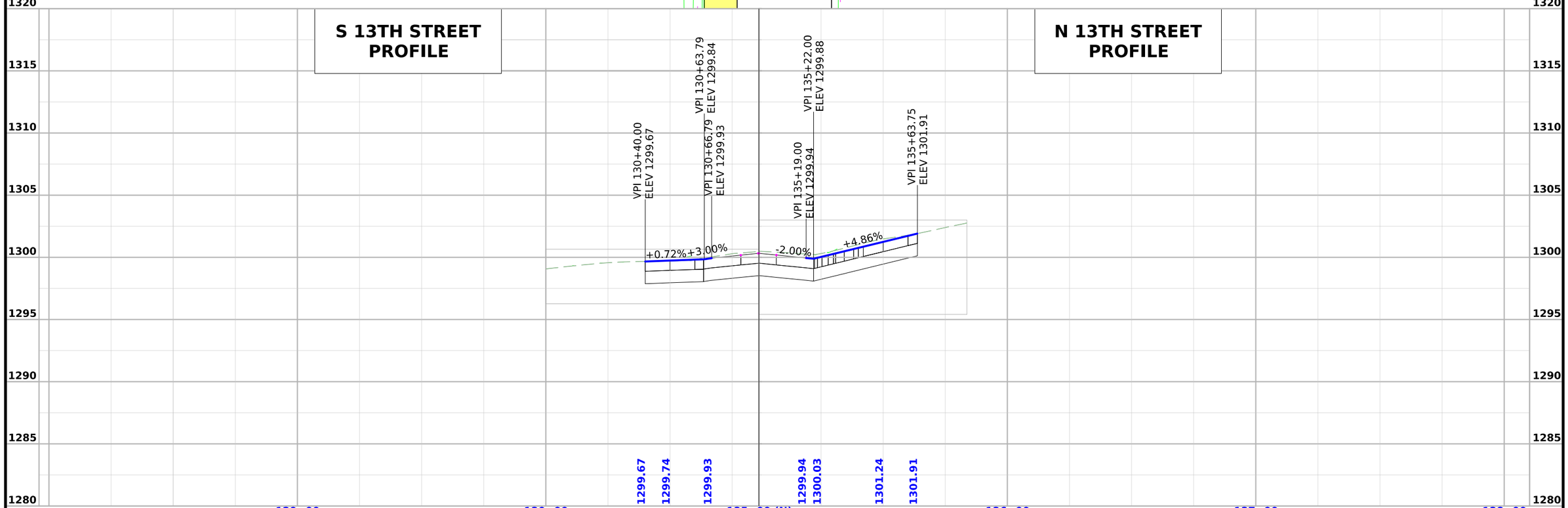

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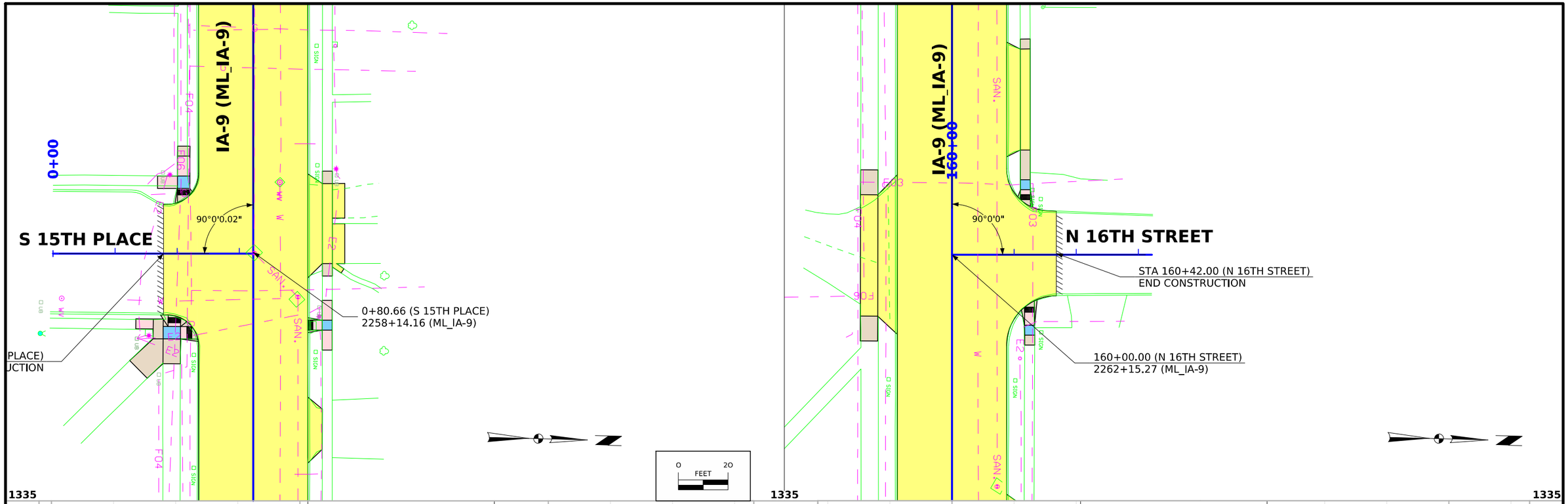
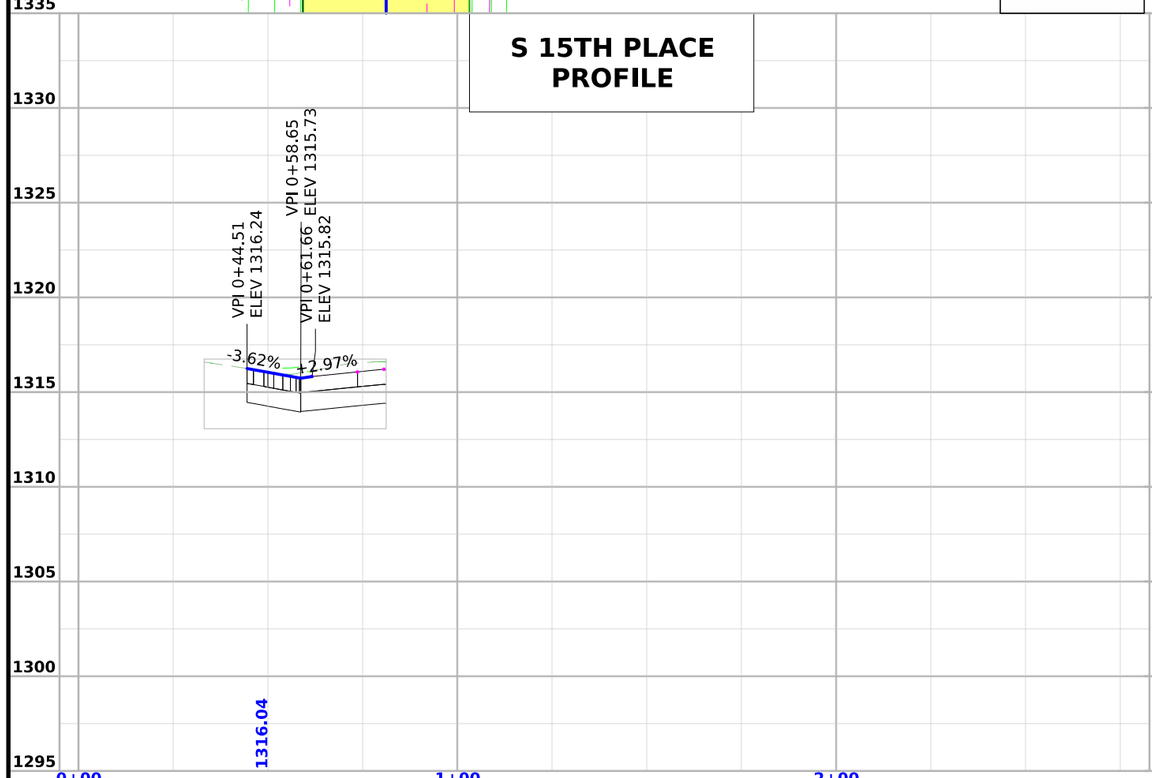
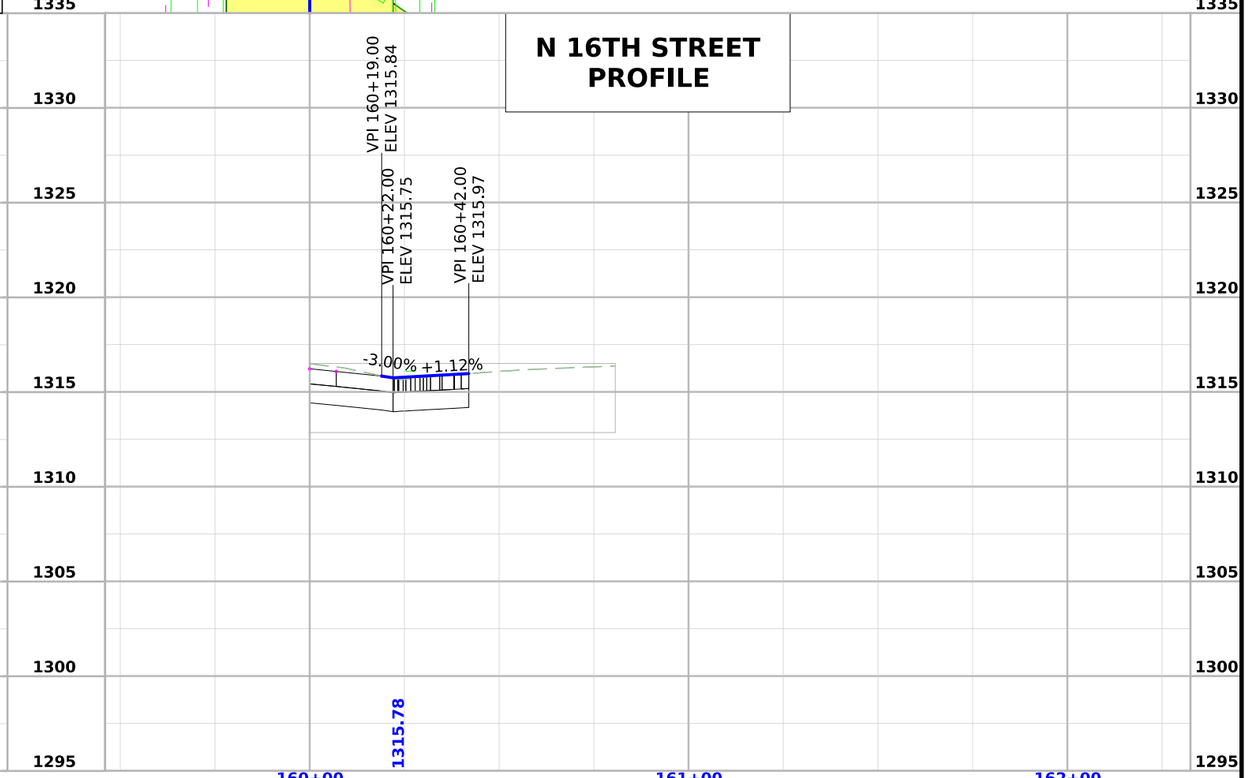


S 15TH PLACE PROFILE



N 16TH STREET PROFILE



FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER E.9

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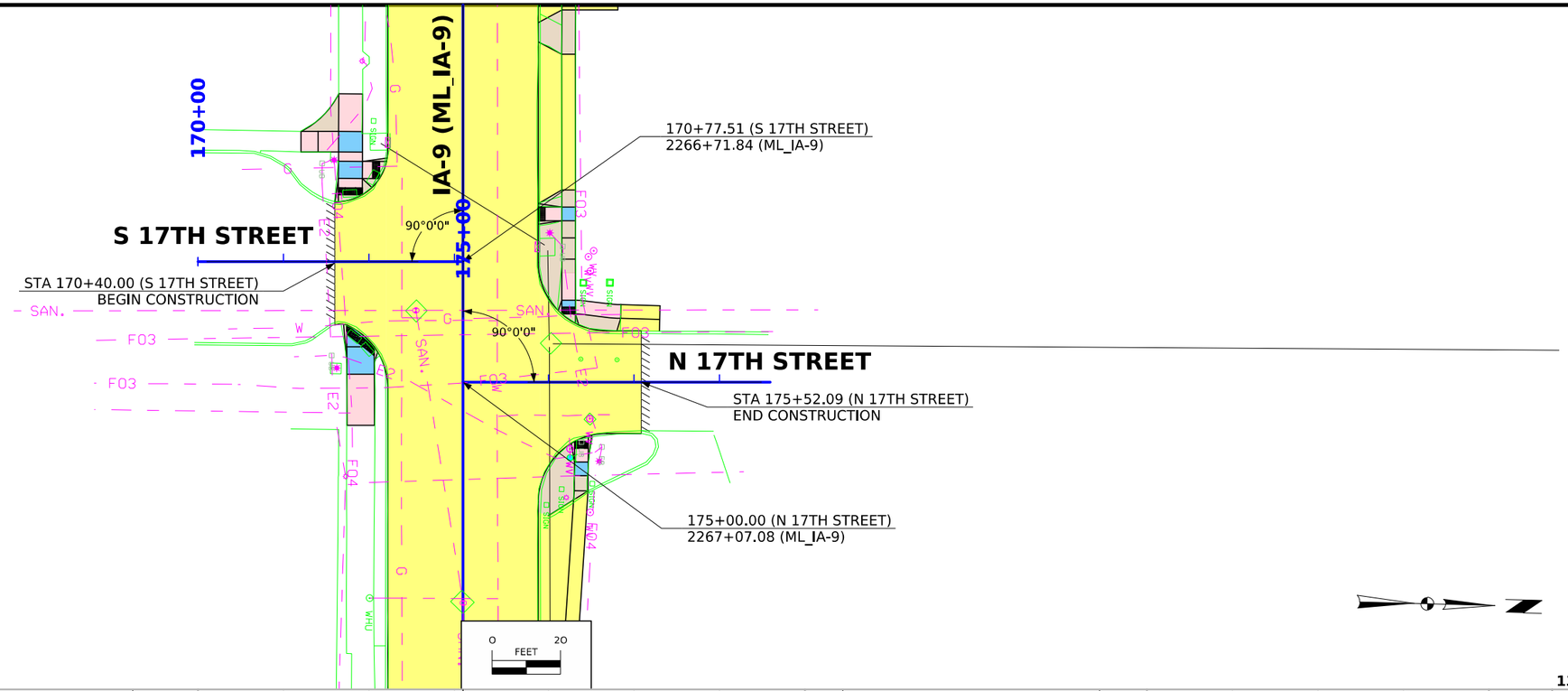

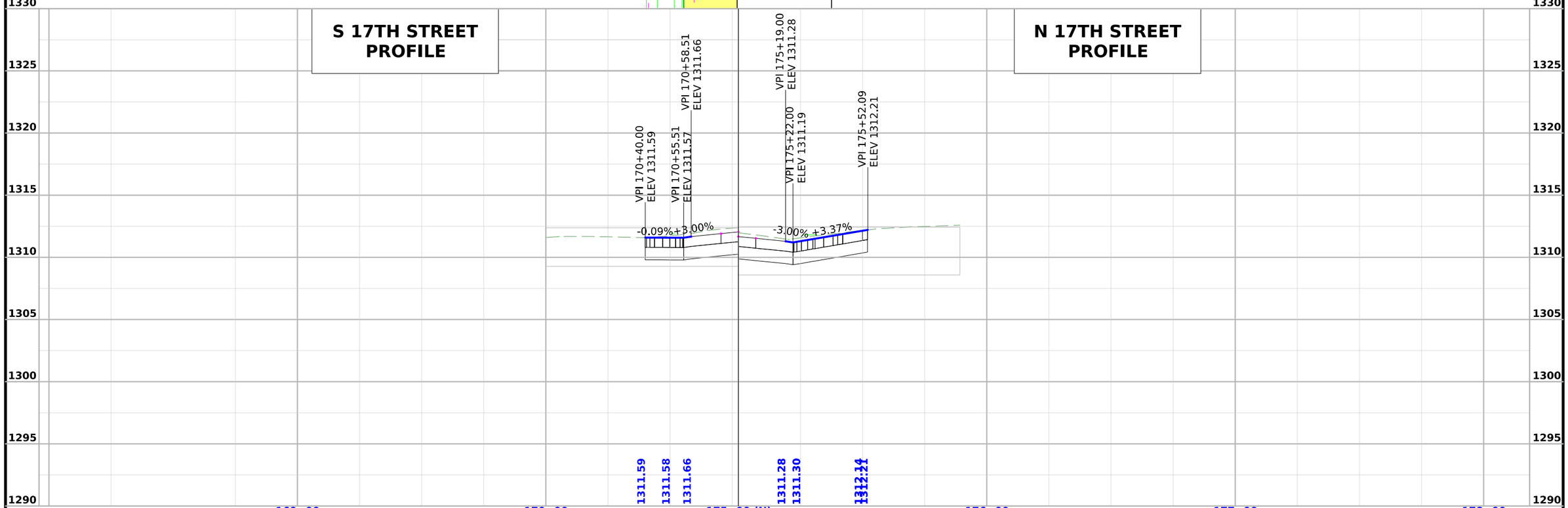

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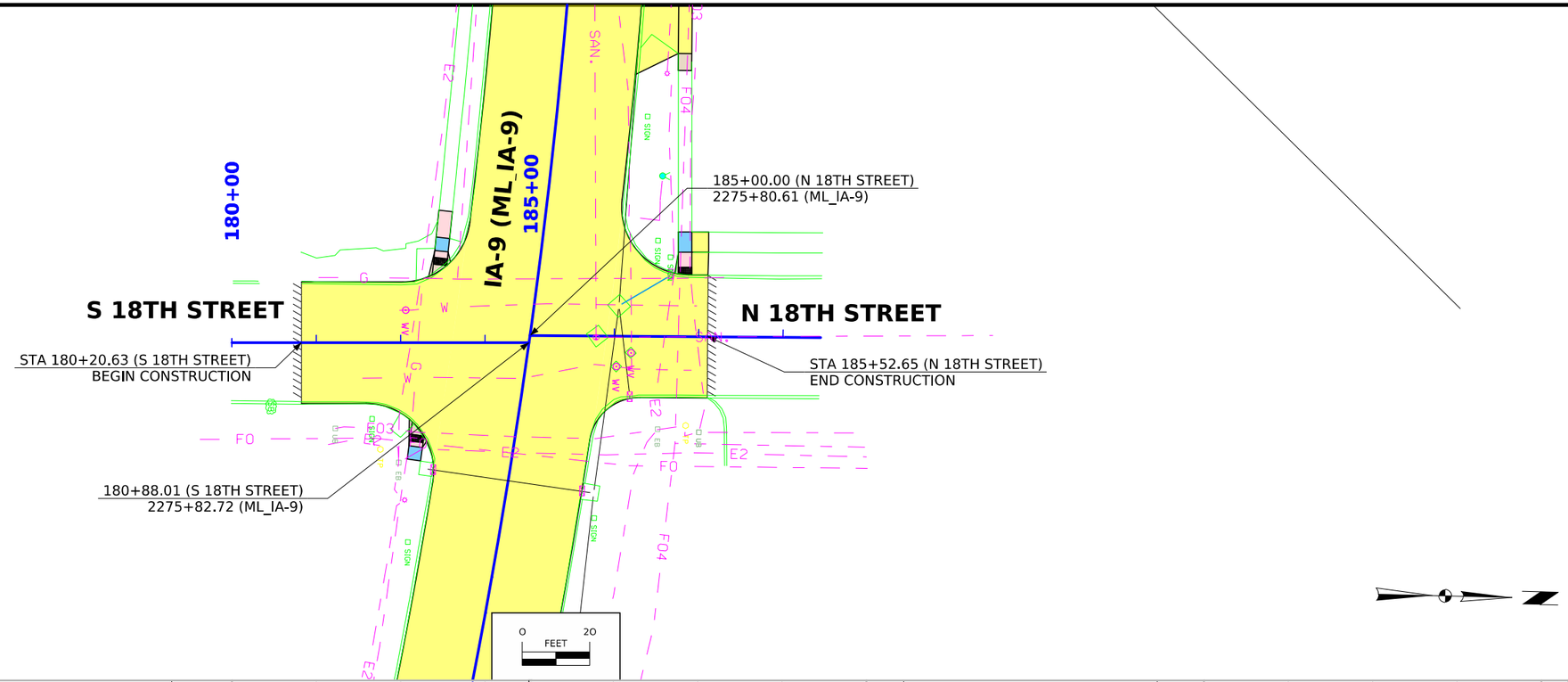

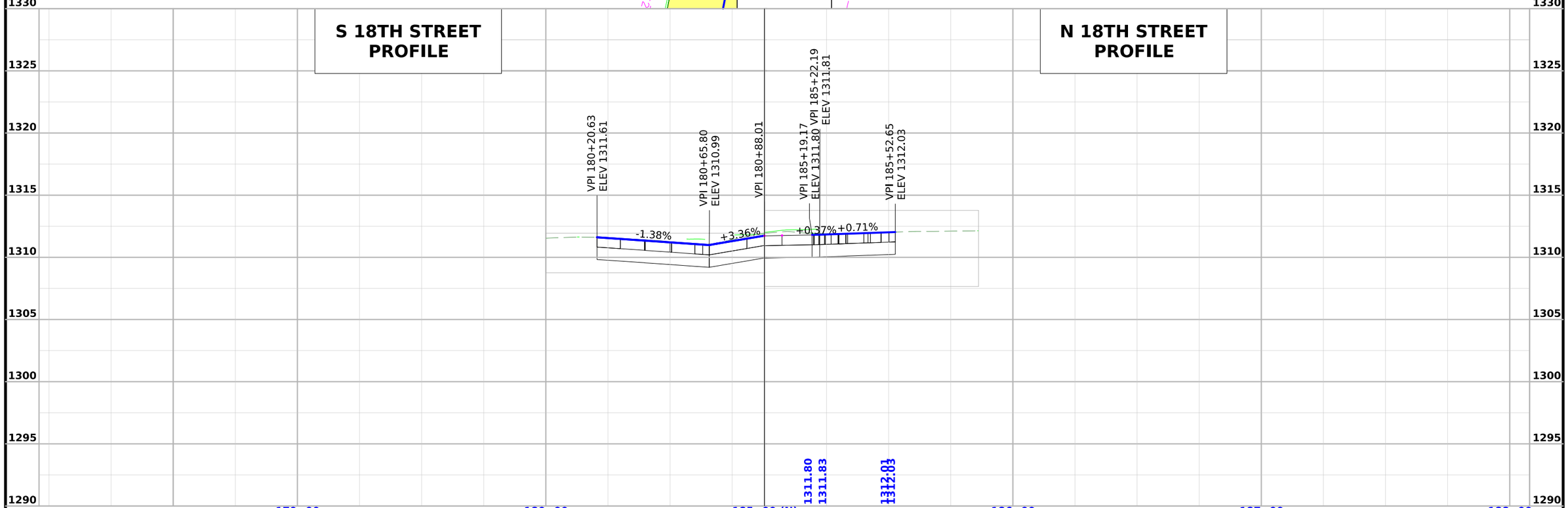

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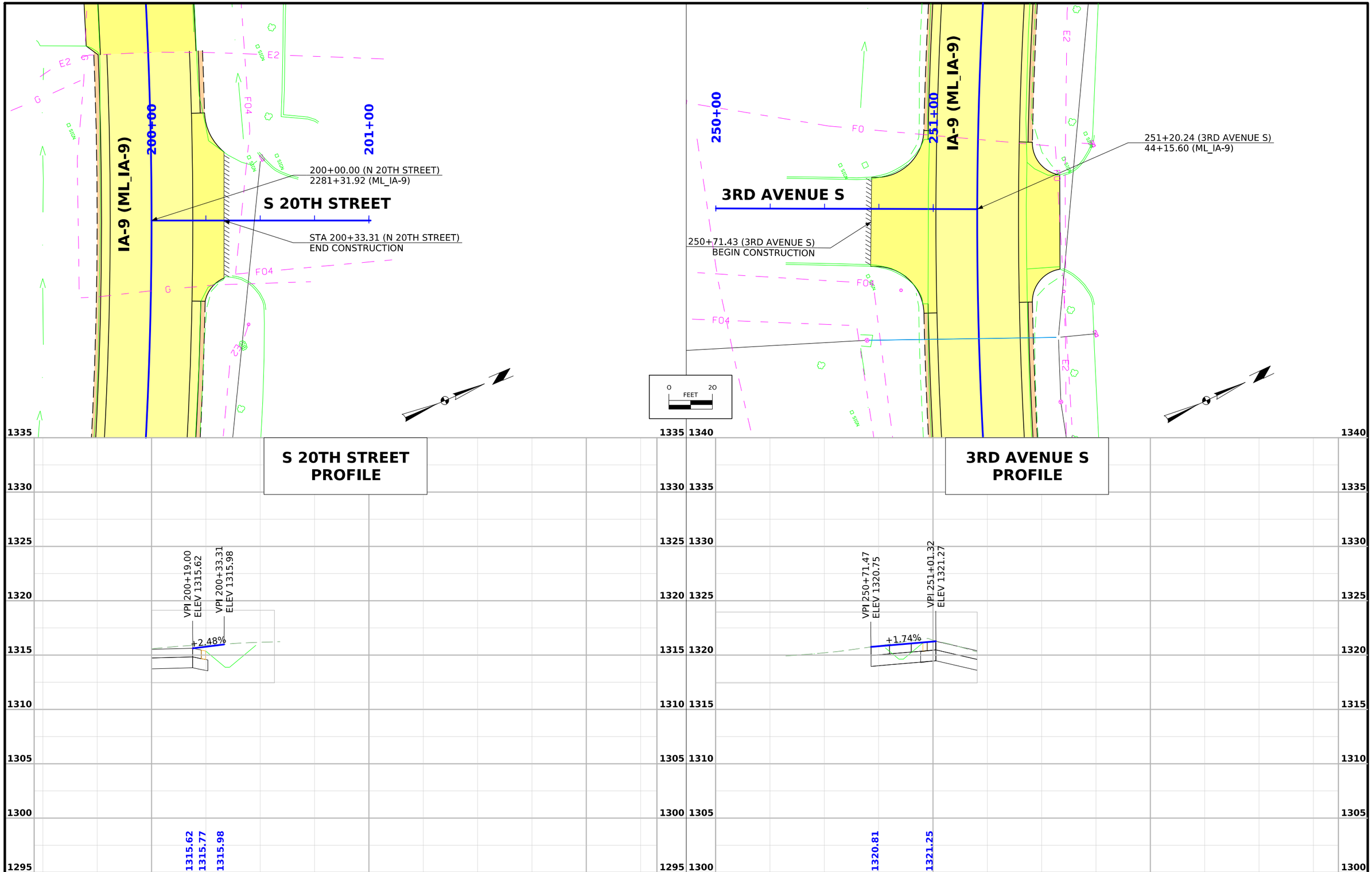

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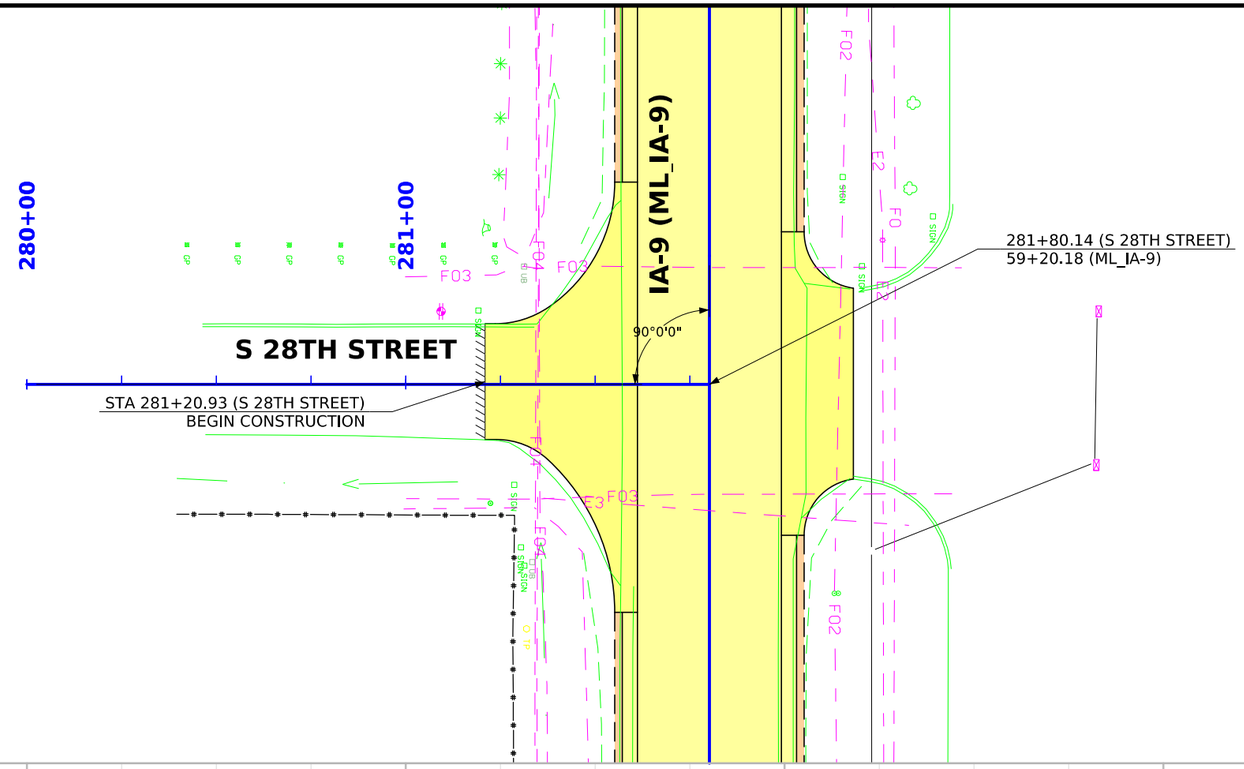
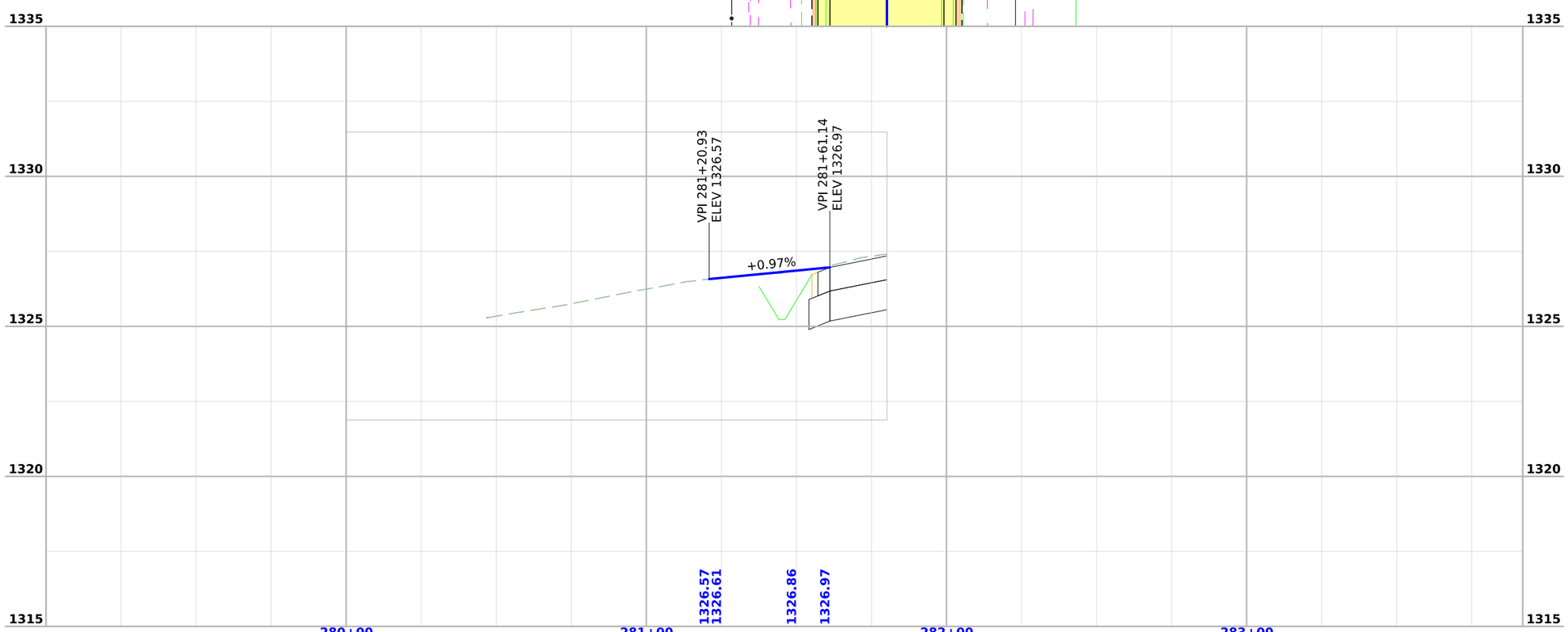
3rd Avenue S - Plan 1





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SURVEY INDEX

County: Emmet
PIN: 24-32-009-010
Project Number: NHSX-009-4(051)—3H-32
Location: In Estherville, from Des Moines River Bridge to east of Brown Creek Bridge
Project Directory: 3200901024

Survey Personnel

Wes Shimp - PLS
Lee Budde – Geospatial Specialist
Katerina Wyatt – Geospatial Specialist
Matt Svec – Survey Party Chief
Nate Theis-Barnett – Survey Party Chief
Alexis Avila - Assistant Survey Party Chief

Date(s) of Survey

Begin Date	06/11/2024
End Date	10/04/2024

General Information

This survey is for the IA-9 Pavement replacement project in Estherville, IA. The project location is from the Des Moines River bridge approximately 2.4 miles to the east limits of Brown Creek bridge. This project is a Full Field DTM survey.

Utility Information

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

Project Control

Nearby Iowa Real Time Network reference stations were utilized to obtain horizontal and vertical control on 4 primary project control points. Three 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 1 (U.S. SURVEY FOOT)
VERTICAL DATUM: NAVD88
GEOID MODEL: 2018u3

Alignment Information

The horizontal alignment for IA Hwy 9 survey is a retrace of As-built Plans No. U-49(3) and F-49(5). Survey stationing was equated to the plan PC at Sta. 2205+20.3 and carried ahead with one station equation where the alignment transitions to the other as-built plans throughout the survey.

Survey stationing relates to as built plan stationing as follows:

PT Sta. 2205+20.3 As-built Plans Project No. U-49(3)
Survey PT Sta. 2205+20.3

PI Sta. 2208+08.4 As-built Plans Project No. U-49(3)
Survey PI Sta. 2208+08.4

PI Sta. 2250+57.2 As-built Plans Project No. U-49(3)
Survey PI Sta. 2250+57.2

PC Sta. 2273+11.0 As-built Plans Project No. U-49(3)
Survey PC Sta. 2273+10.93

Station equation as alignment transitions from As-built Plans No. U-49(3) to As-built Plans No. F-49(5) at the PT station of the curve.

PT Sta. 36+23.0 As-built Plans Project No. F-49(5)
Survey PT Sta. 36+23.0

PC Sta. 39+41.3 As-built Plans Project No. F-49(5)
Survey PC Sta. 39+41.12

PT Sta. 52+87.1 As-built Plans Project No. F-49(5)
Survey PT Sta. 52+86.78

PI Sta. 75+63.8 As-built Plans Project No. F-49(5)
Survey PI Sta. 75+63.36

POT Sta. 109+09.0 As-built Plans Project No. F-49(5)
Survey POT Sta. 109+08.56

Survey Information

The horizontal alignment for IA Hwy 4 survey is a retrace of As-built Plans No. STPN-004-6(24)--2J-32 and STP-004-6(37)--2C-32. Survey stationing was equated to the plan PI at Sta. 590+06.84 and carried back/ahead without station equation.

Survey stationing relates to as built plan stationing as follows:

PI Sta. 587+20.85 As-built Plans Project No. STPN-004-6(24)--2J-32
Survey PI Sta. 587+20.85

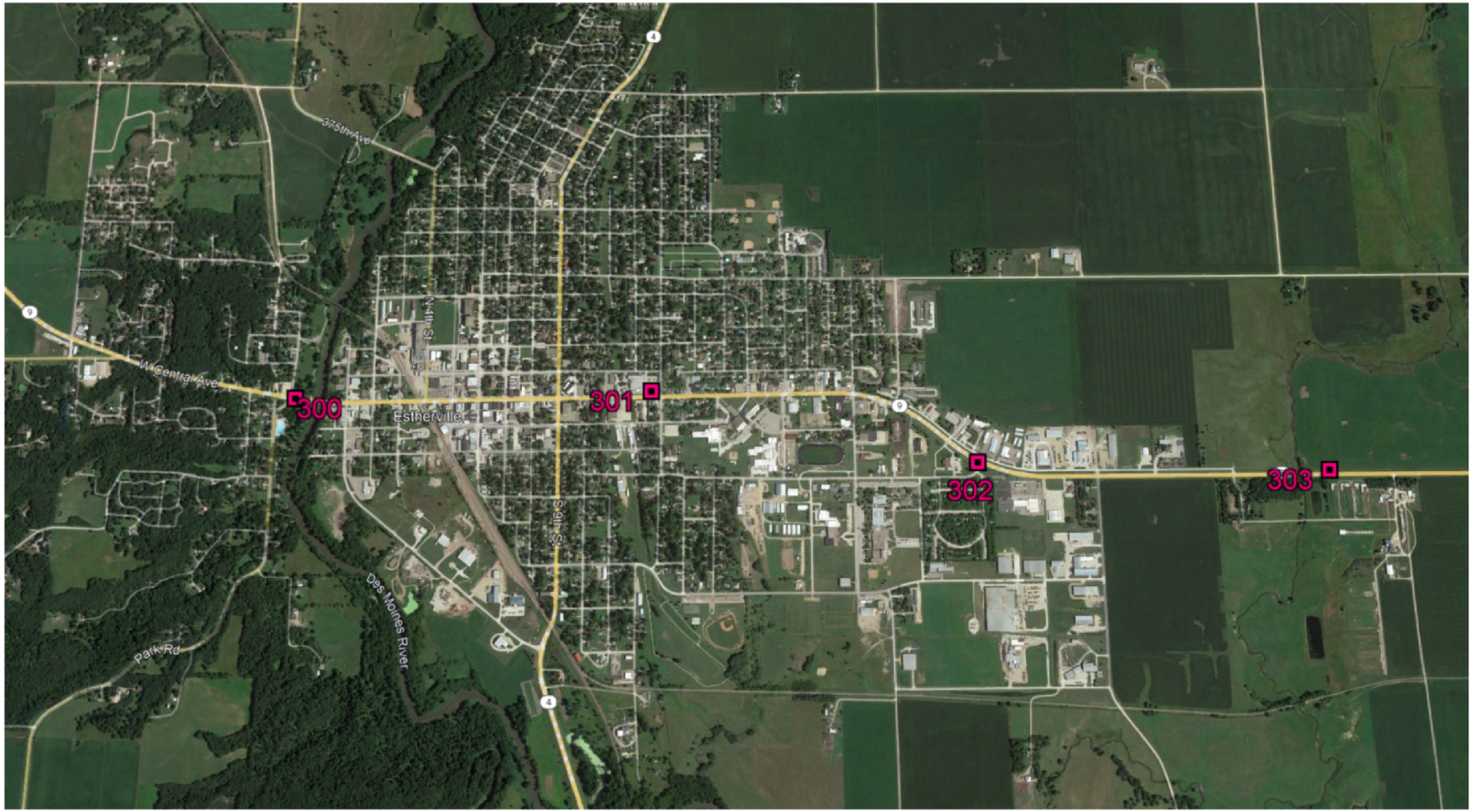
PI Sta. 590+06.84 As-built Plans Project No. STPN-004-6(24)--2J-32
Survey PI Sta. 590+06.84

Alignment transitions from As-built Plans No. STPN-004-6(24)--2J-32 to As-built Plans No. STP-004-6(37)--2C-32 at the PI station listed above.

PI Sta. 593+61.68 As-built Plans Project No. STP-004-6(37)--2C-32
Survey PI Sta. 593+61.68

CONTROL POINT VICINITY MAP

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



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

VERT. DATUM: NAVD88 - Geoid Model: 2018u3

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

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

Point Name	Northing	Easting	Elevation	Code-Description
300	9673861.12	11607488.74	1266.89	CP SET FENO MONUMENT 100 FT WEST OF DES MOINES BRIDGE
301	9673980.17	11612111.55	1299.96	CP SET FENO MONUMENT 100 FT WEST OF E CENTRAL AVE AND N 13TH ST
302	9673071.09	11616319.27	1320.38	CP SET FENO MONUMENT SW OF 3RD AVE S AND E CENTRAL AVE
303	9672997.84	11620826.11	1285.81	CP SET FENO MONUMENT 380 FT EAST OF BROWN CREEK

CONTROL LINE DATA - ML_IA-9

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
SURMLA009	S84°22'18"E	288.10	9673866.16	116076593.7		2205+20.30					
GeomBL	N88°36'42"E	4248.80	9673837.9	116079446.42		2209+08.40					
SURMLA009	N88°26'42"E	2253.73	9673940.85	116121913.97		2229+57.20					
HPI	S59°22'10"E	1034.19	9674021.45	116195162.67	2273+10.93	2280+27.00	36+23.00	41°06'09"	1910.00	1370.18	716.07
HPI	N89°10'50"E	1301.60	9672915.92	116165015.3	39+41.12	46+43.23	52+86.78	40°22'00"	-1910.00	1345.65	702.11
SURMLA009	N89°10'50"E	1677.10	9672934.53	116171803		58+96.26					
GeomBL7	N89°18'50"E	3345.20	9672958.51	116119479.93		75+63.36					
SURMLA009			9672939.57	116222824.89		109+08.56					

CONTROL LINE DATA - SR_S-1stStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	87.23	9673755.5	116008146.69		10+00.00					
END			9673842.71	116008144.56		10+87.23					

CONTROL LINE DATA - SR_N-1stStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	84.62	9673842.7	116008144.21		15+00.00					
END			9673917.3	116008142.16		15+84.62					

CONTROL LINE DATA - SR_S-2ndStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	66.09	9673784.9	116008497.03		20+00.00					
END			9673850.97	116008485.43		20+66.09					

CONTROL LINE DATA - SR_N-2ndStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	98.16	9673850.96	116008405.13		25+00.00					
END			9673949.09	116008402.76		25+98.16					

CONTROL LINE DATA - SR_S-5thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	70.93	9673805.08	116095519.32		50+00.00					
END			9673875.98	116095517.6		50+70.93					

CONTROL LINE DATA - SR_N-5thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	60.93	9673875.98	116095513.45		55+00.00					
END			9673936.79	116095511.97		55+60.93					

CONTROL LINE DATA - SR_S-6thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	155.93	9673728.45	116098665.93		60+00.00					
END			9673884.34	116098662.16		61+55.93					

CONTROL LINE DATA - SR_N-6thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	70.99	9673884.39	116098664.57		65+00.00					
END			9673955.37	116098662.85		65+70.99					

CONTROL LINE DATA - SR_S-7thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	150.06	9673742.67	116102101.12		70+00.00					
END			9673892.68	116102096.49		71+50.06					

CONTROL LINE DATA - SR_N-7thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	72.68	9673832.61	116102035.59		75+00.00					
END			9673905.27	116102018.3		75+72.68					

CONTROL LINE DATA - SR_S-8thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	90.51	9673810.53	11610552.48		80+00.00					
END			9673901.01	116105508.28		80+90.51					

CONTROL LINE DATA - SR_N-8thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°23'18"W	92.97	9673901.01	116105508.16		85+00.00					
END			9673993.96	116105477.91		85+92.97					

CONTROL LINE DATA - SR_S-9thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
SURMLB004	N01°23'46"W	285.99	9673623.46	116109902		587+20.05					
SURMLB004			9673909.37	116108895.03		590+06.04					

CONTROL LINE DATA - SR_N-9thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°27'00"W	354.84	9673901.37	116108895.03		590+06.04					
END			9674264.1	116108886.05		593+61.68					

CONTROL LINE DATA - SR_S-13thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°33'18"W	85.47	9673951.27	116122227.93		130+00.00					
END			9673941.71	116122251.61		130+85.47					

CONTROL LINE DATA - SR_N-13thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°33'18"W	83.43	9673941.75	116122268.89		135+00.00					
END			9674025.15	116122246.61		135+83.43					

CONTROL LINE DATA - SR_S-15thPlace

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°33'18"W	80.66	9673888.78	116129532.42		150+00.00					
END			9673961.41	116129512.23		150+80.66					

CONTROL LINE DATA - SR_N-16thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°33'18"W	80.44	9673977.28	116133516.61		160+00.00					
END			9674057.69	116133493.43		160+80.44					

CONTROL LINE DATA - SR_S-17thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°33'18"W	77.51	9673907.19	116138101.11		170+00.00					
END			9673981.67	116138081.01		170+77.51					

CONTROL LINE DATA - SR_N-17thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°33'18"W	89.81	9673985.63	116138431.24		175+00.00					
END			9674075.4	116138408		175+89.81					

CONTROL LINE DATA - SR_S-18thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N01°21'53"W	88.01	9673902.08	116147208.26		180+00.00					
END			9673990.07	116147218.16		180+88.01					

CONTROL LINE DATA - SR_N-18thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N00°57'04"W	86.15	9673990.3	116147216.07		185+00.00					
END			9674076.45	116147214.64		185+86.15					

CONTROL LINE DATA - SR_N-20thStreet

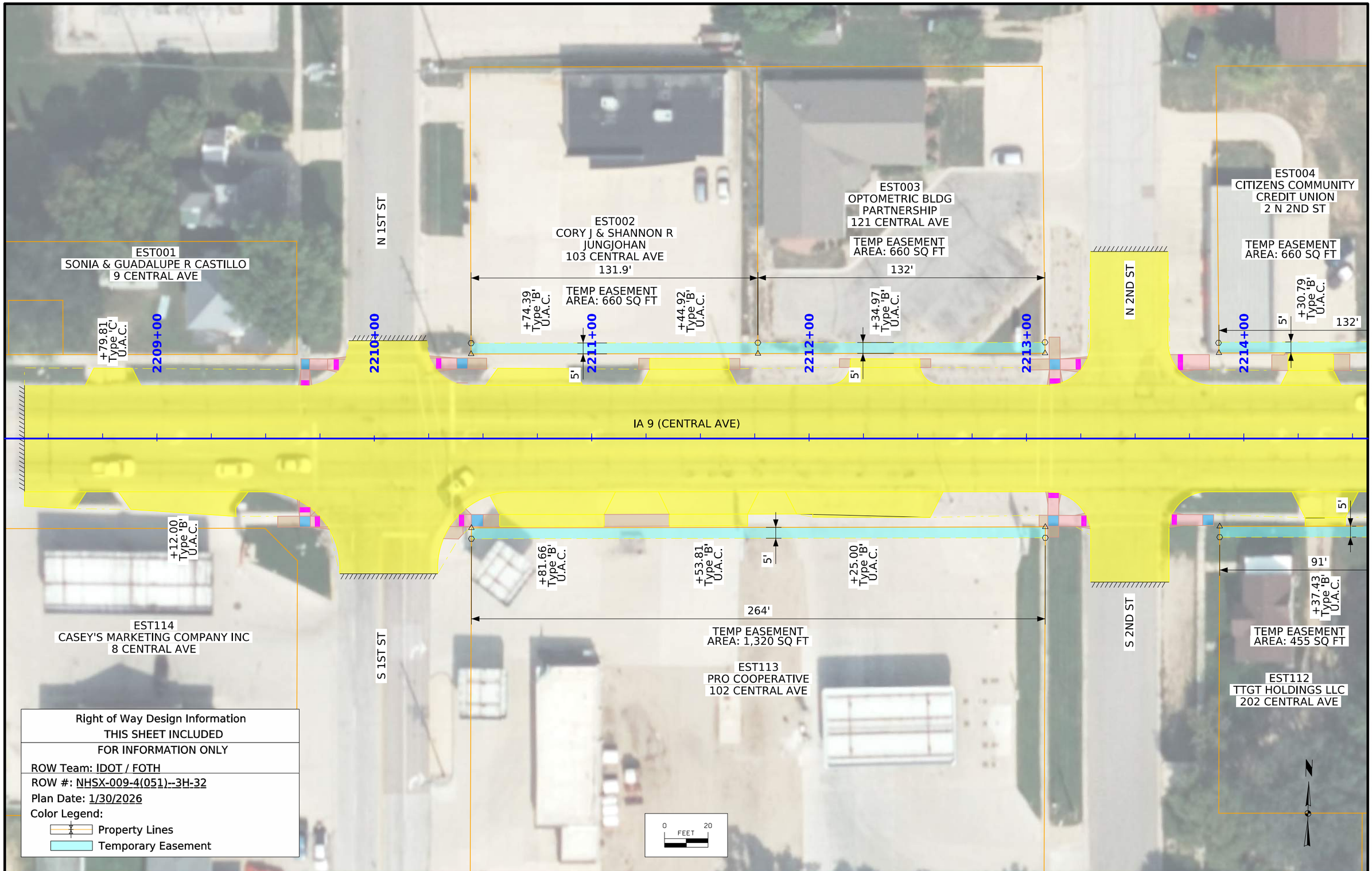
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N23°04'22"E	100.8	9673849.93	116152472.23		200+00.00					
END			9673942.67	116152867.73		201+00.80					

CONTROL LINE DATA - SR_S-28thStreet

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N00°49'10"W	180.14	9672754.9	116178394.49		280+00.00					
END			9672935.02	116178361.91		281+80.14					

CONTROL LINE DATA - SR_S-3rdAvenue

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
START	N25°18'51"E	120.24	9673000.47	116163081.7		250+00.00					
END			9673109.17	116163159.58		251+20.24					



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FOR INFORMATION ONLY

ROW Team: IDOT / FOTH

ROW #: NHSX-009-4(051)--3H-32

Plan Date: 1/30/2026

Color Legend:

Property Lines

Temporary Easement

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER H.1

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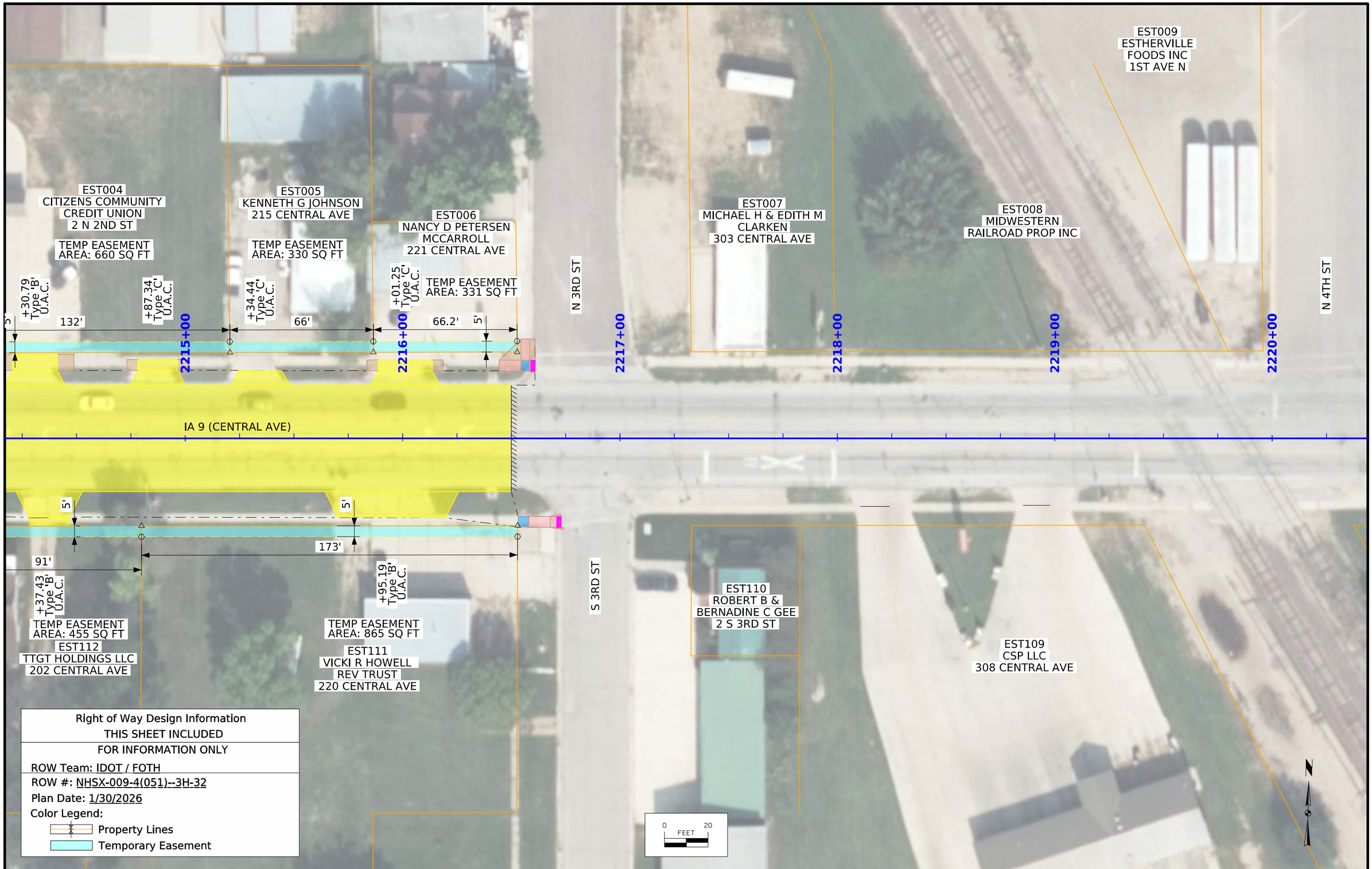

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ROW #: NHSX-009-4(051)--3H-32
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Property Lines
Temporary Easement

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER H.2

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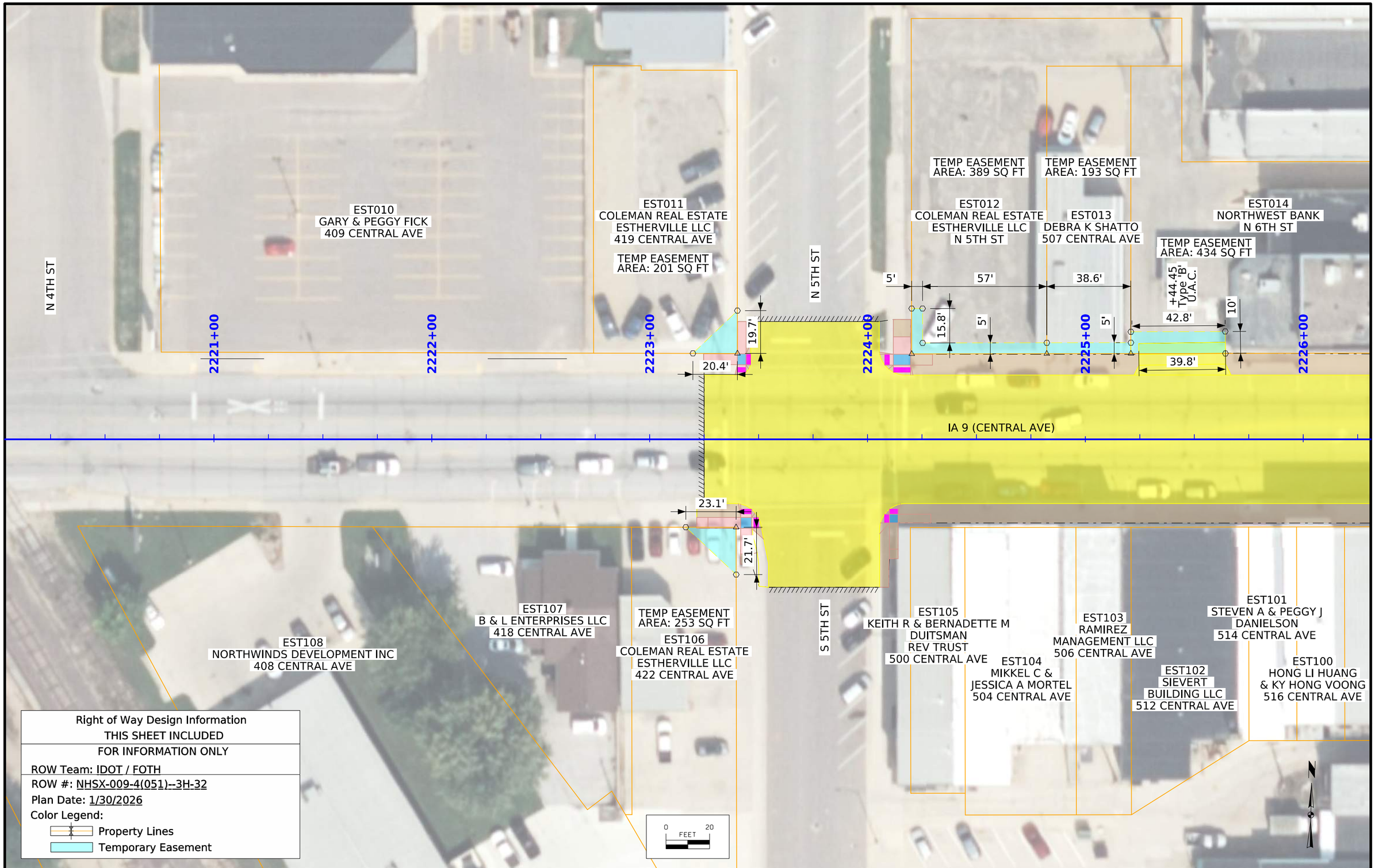

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FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER H.3

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EST014
NORTHWEST BANK
N 6TH ST

N 6TH ST

EST015
CITY OF ESTHERVILLE
613 CENTRAL AVE

TEMP EASEMENT
AREA: 1,597 SQ FT

N 7TH ST

EST016
ESTHERVILLE HOUSING INC
4 N 7TH ST

5'

25'

254.3'

30'

5'

3.7'

2226+00

2227+00

2228+00

2229+00

2230+00

2231+00

2232+00

IA 9 (CENTRAL AVE)

EST100
HONG LI HUANG
& KY HONG VOONG
516 CENTRAL AVE

EST099
JONATHAN B
& KATHRYN HOSS
522 CENTRAL AVE

S 6TH ST

EST098
DON JOSE LLC
600 CENTRAL AVE

EST097
DANA MOEDING
608 CENTRAL AVE

EST096
KARA &
MAUREEN HATLAND
610 CENTRAL AVE

EST095
PLATINUM
VENTURES LLC
614 CENTRAL AVE

EST094
JASON A &
MISCHELLE L DAHNA
618 CENTRAL AVE

EST093
RONALD D LEFFEL
620 CENTRAL AVE

EST092
OKOBOJI INVESTORS LLC
622 CENTRAL AVE

S 7TH ST

EST091
ESTHERVILLE AREA
GROWTH PTR INC
700 CENTRAL AVE

EST090
RAMIREZ MANAGEMENT LLC
702 CENTRAL AVE

EST089
TIMOTHY P & KRYSTIE K
BRASHEAR
704 CENTRAL AVE

EST088
LUIS & YESENIA
BLANCO
706 CENTRAL AVE

Right of Way Design Information
THIS SHEET INCLUDED
FOR INFORMATION ONLY
ROW Team: IDOT / FOTH
ROW #: NHSX-009-4(051)--3H-32
Plan Date: 1/30/2026
Color Legend:
Property Lines
Temporary Easement

0 20
FEET

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER H.4

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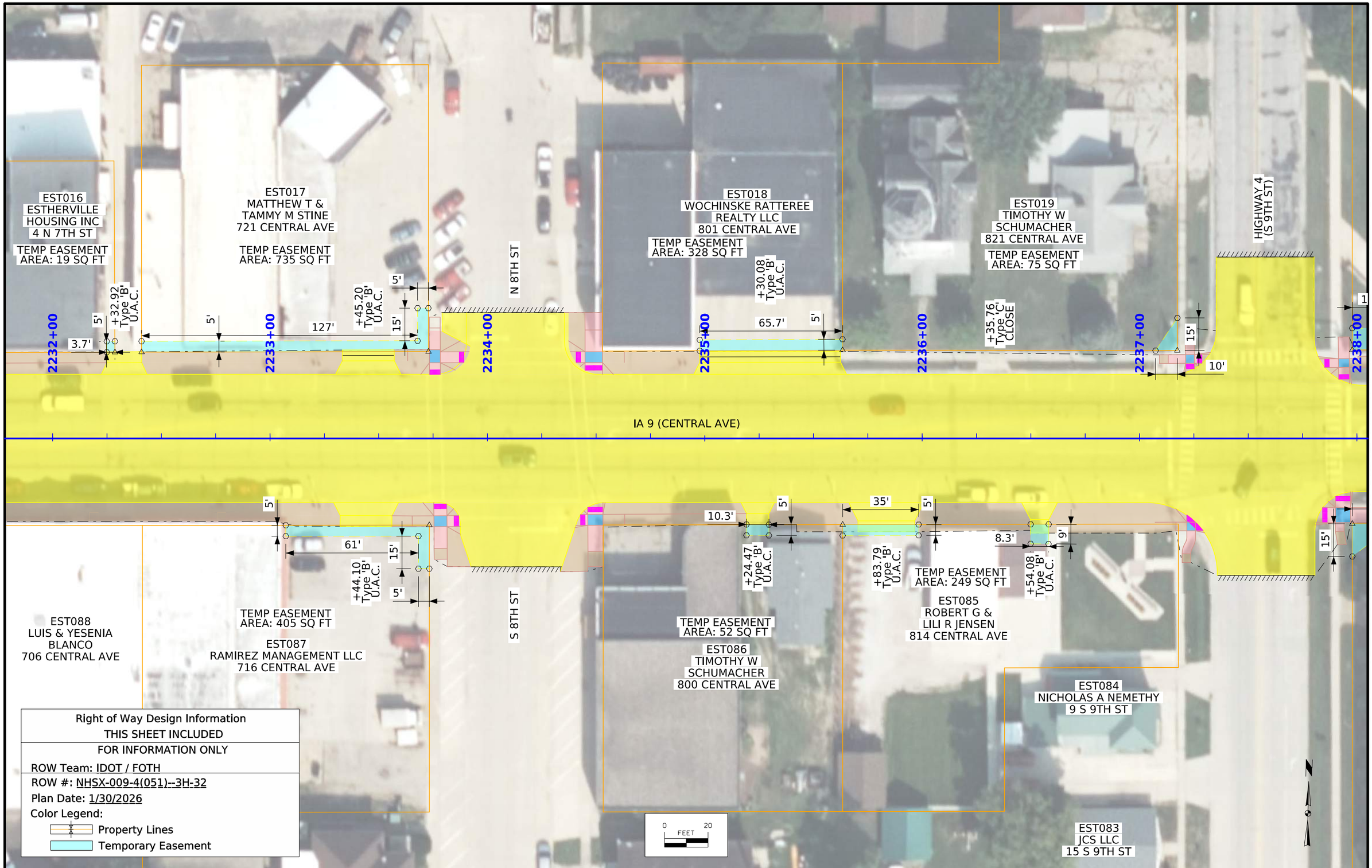

Right of Way Design Information
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ROW #: NHSX-009-4(051)--3H-32
Plan Date: 1/30/2026
Color Legend:
Property Lines
Temporary Easement

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER H.5

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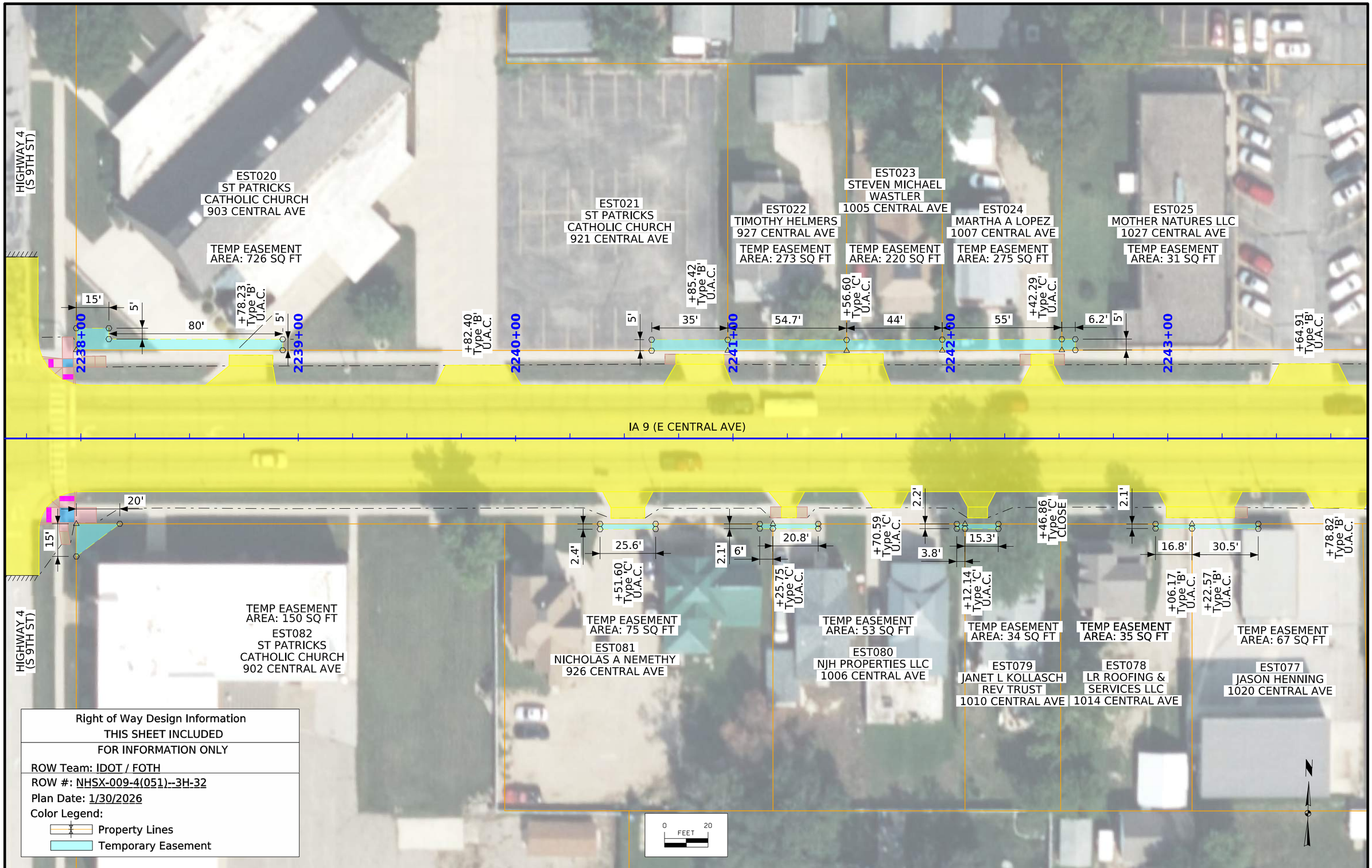

Right of Way Design Information
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FOR INFORMATION ONLY

ROW Team: IDOT / FOTH

ROW #: NHSX-009-4(051)--3H-32

Plan Date: 1/30/2026

Color Legend:

Property Lines

Temporary Easement

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER H.6

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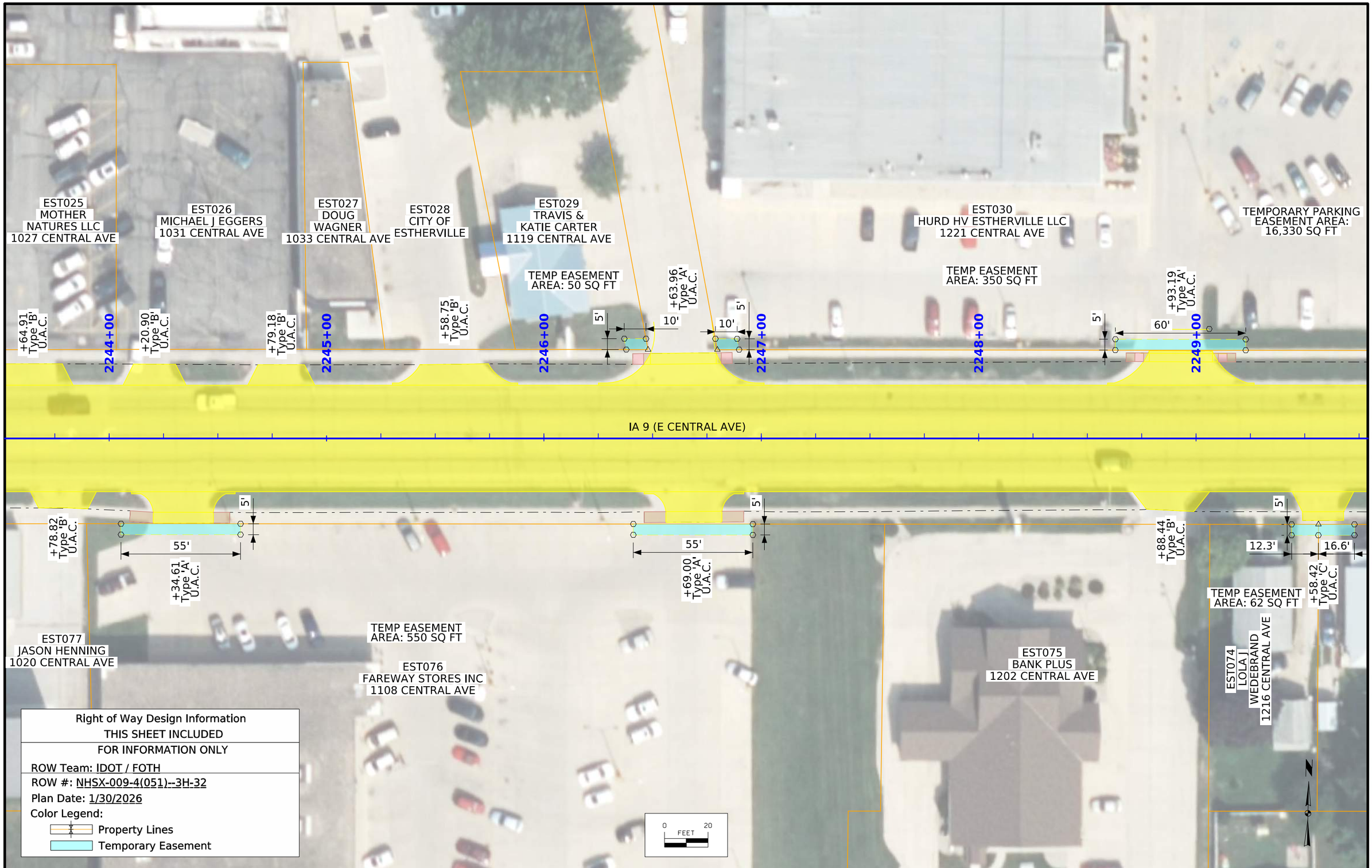

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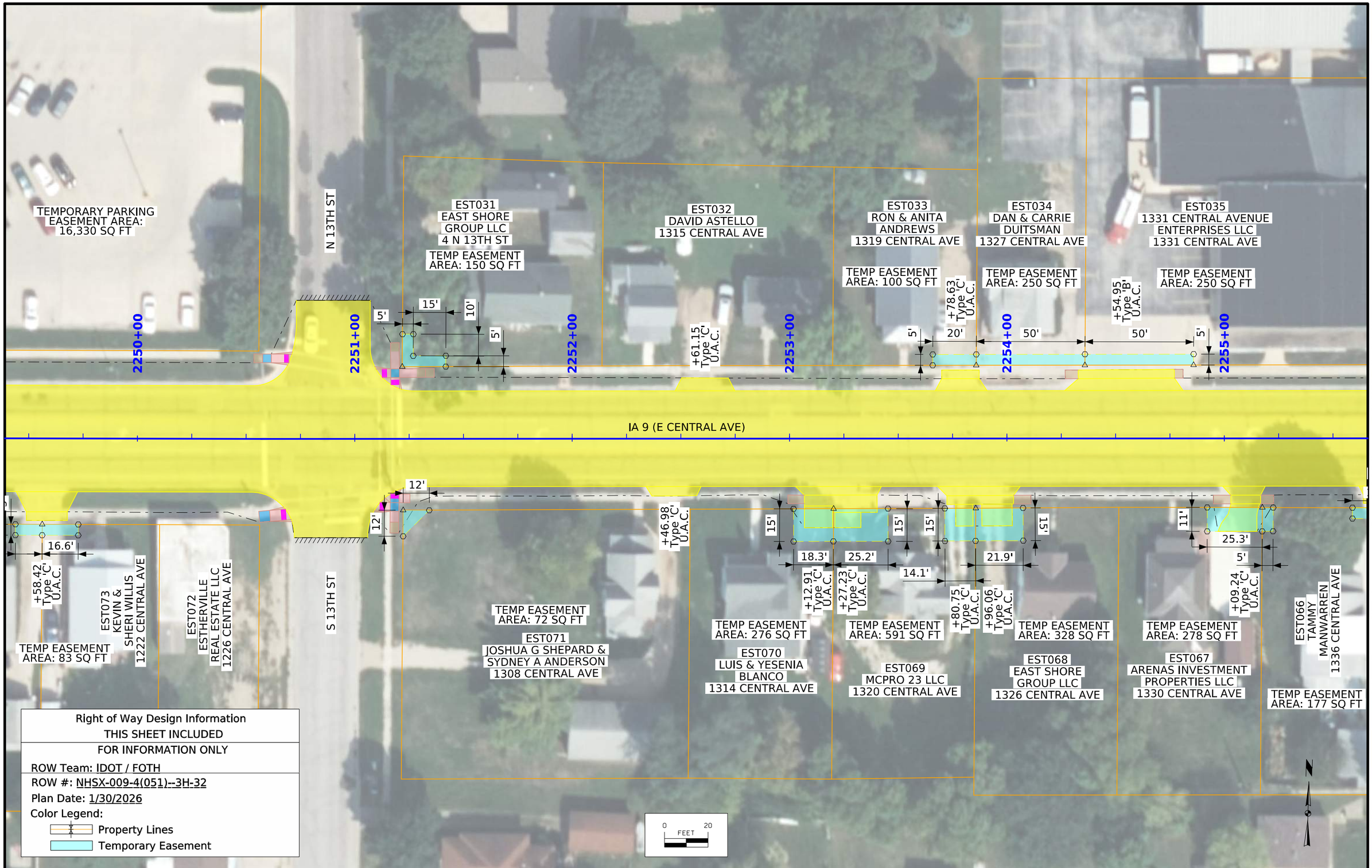

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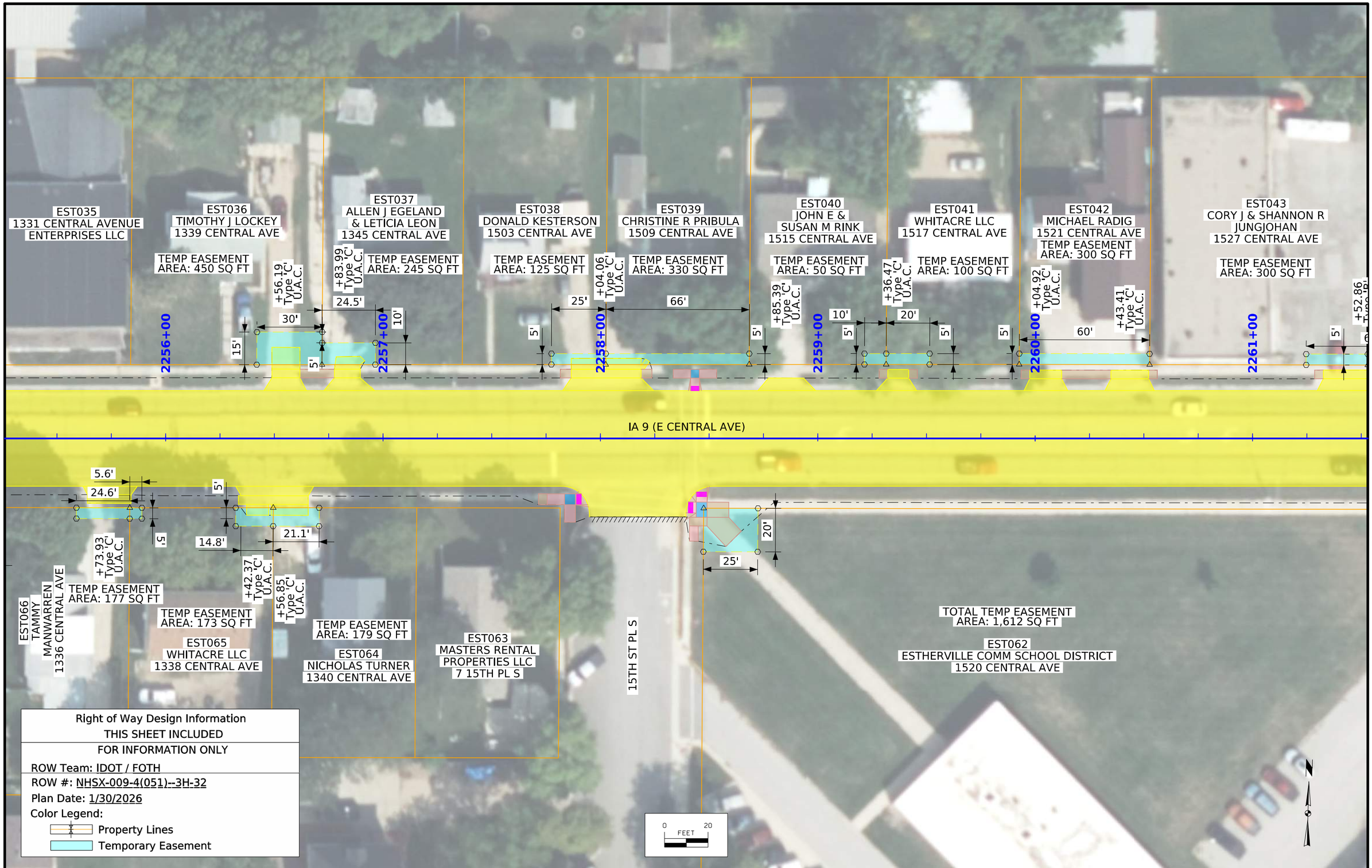

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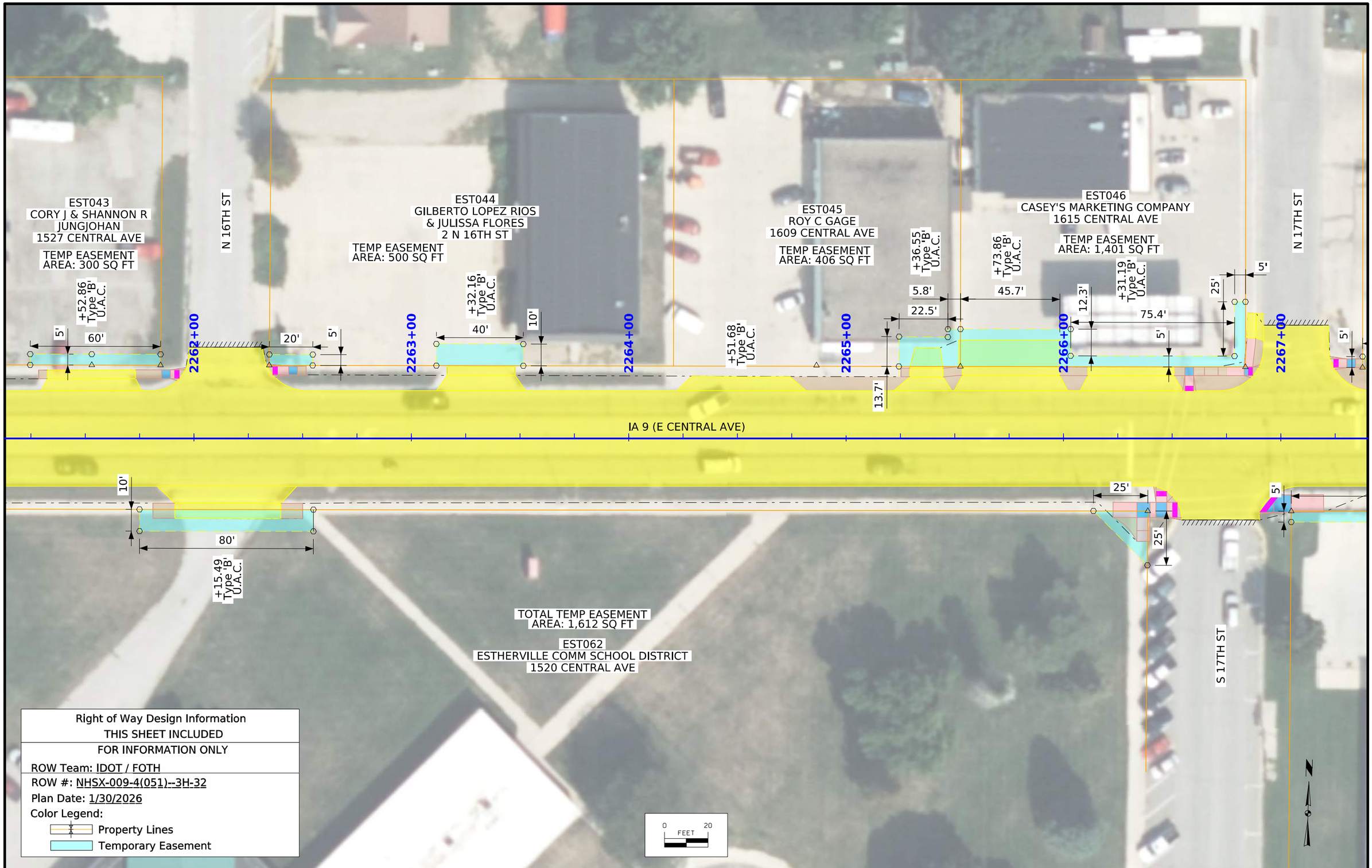

Right of Way Design Information
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ROW Team: IDOT / FOTH

ROW #: NHSX-009-4(051)--3H-32

Plan Date: 1/30/2026

Color Legend:

Property Lines

Temporary Easement

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER H.10

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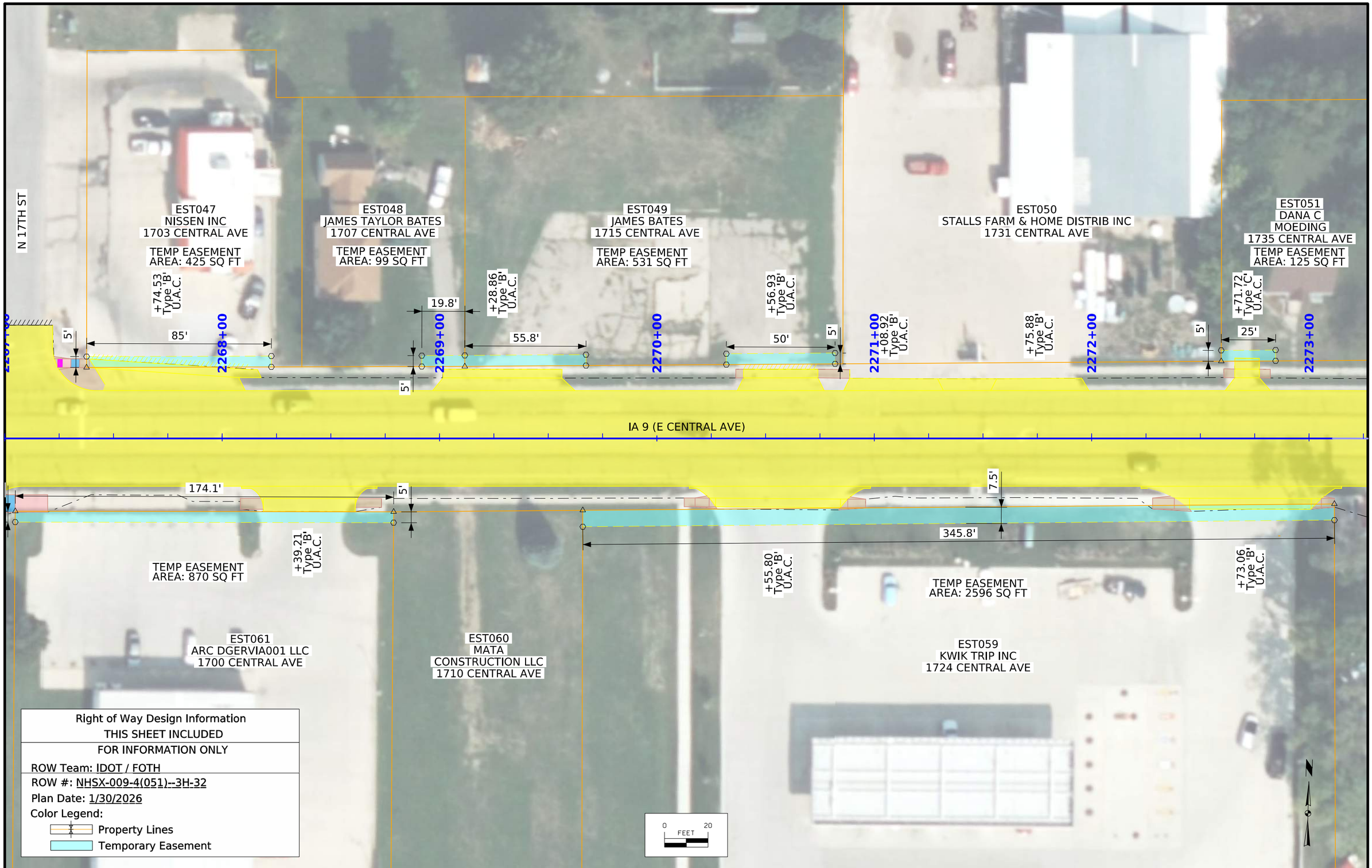

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ROW Team: IDOT / FOTH

ROW #: NHSX-009-4(051)--3H-32

Plan Date: 1/30/2026

Color Legend:

Property Lines

Temporary Easement

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER H.11

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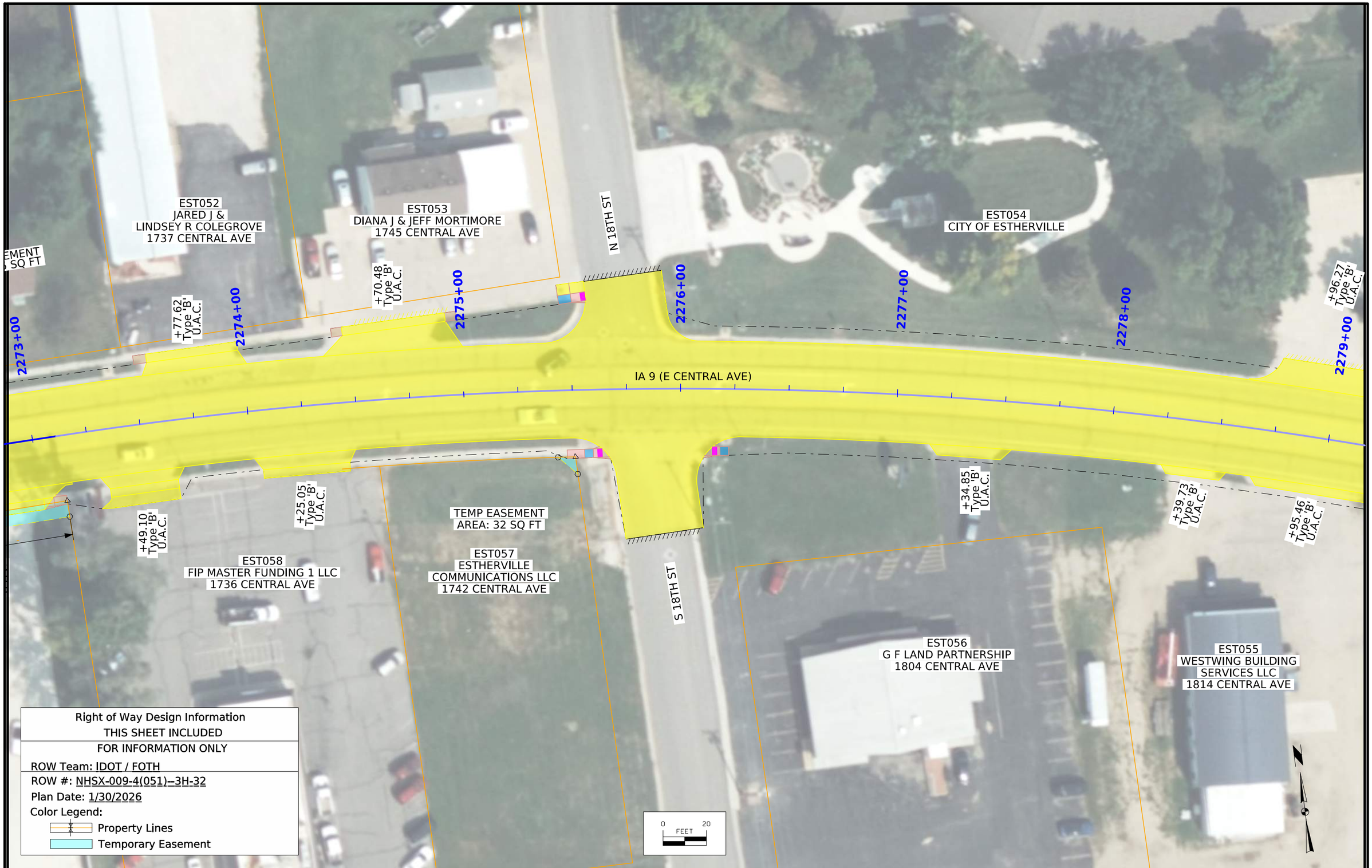

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ROW Team: IDOT / FOTH
ROW #: NHSX-009-4(051)--3H-32
Plan Date: 1/30/2026
Color Legend:
Property Lines
Temporary Easement

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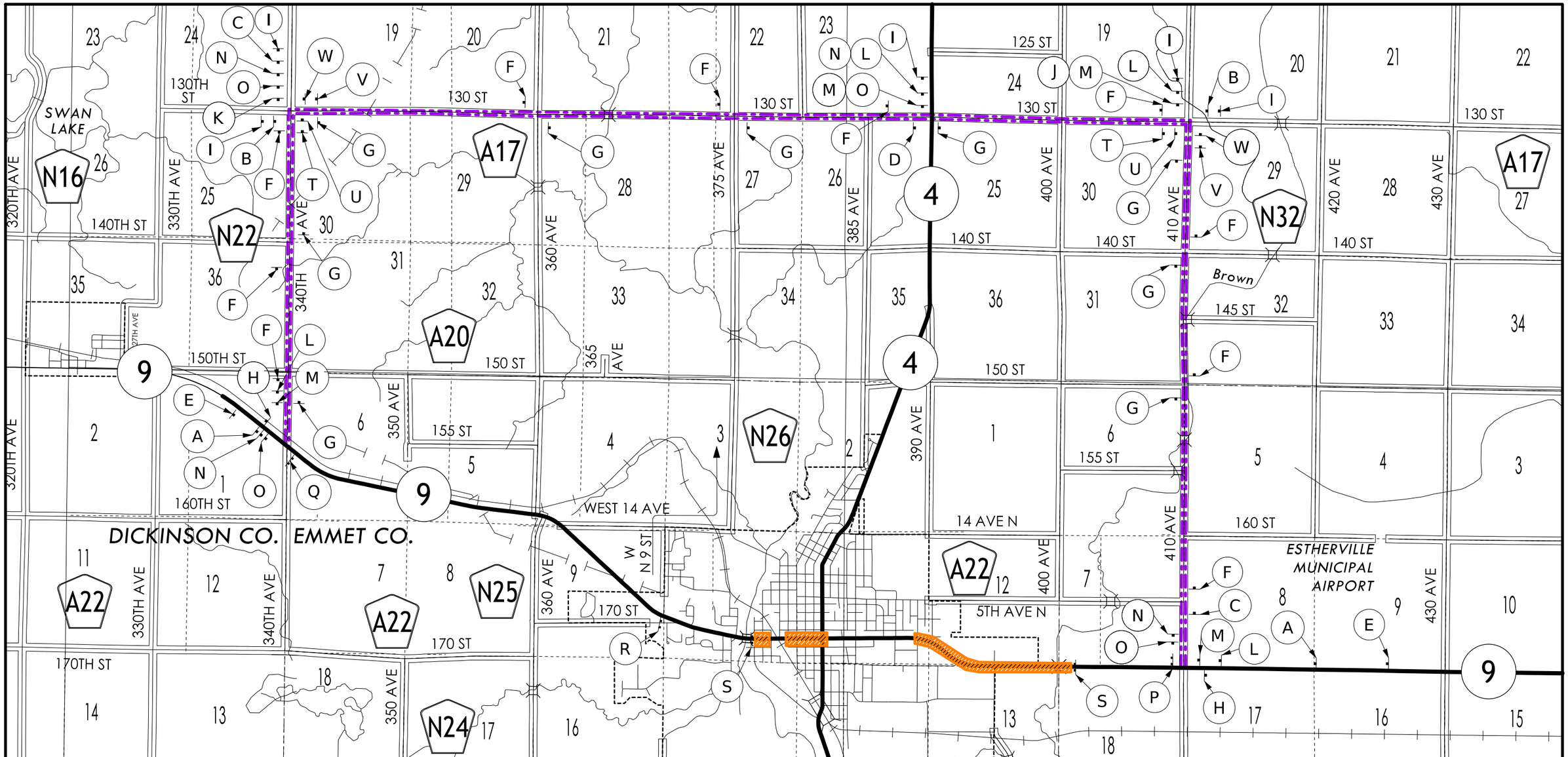

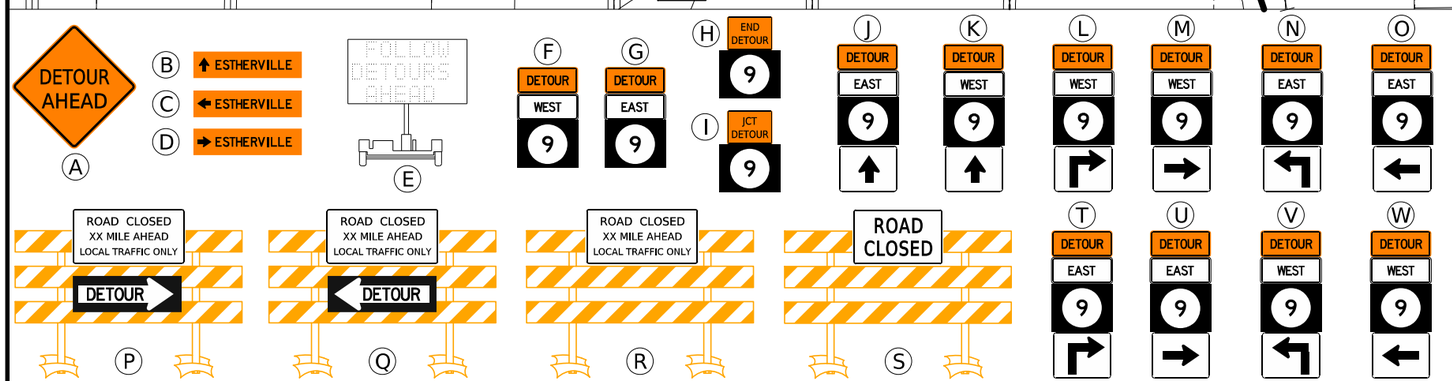

IA-9 PROPOSED DETOUR - STAGES 1 & 2

NOTE:

COVER ANY CONFLICTING SIGNAGE

TRAFFIC CONTROL LEGEND

- TRAFFIC SIGN
- TYPE III BARRICADE
- DETOUR ROUTE
- WORK AREA

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER J.1

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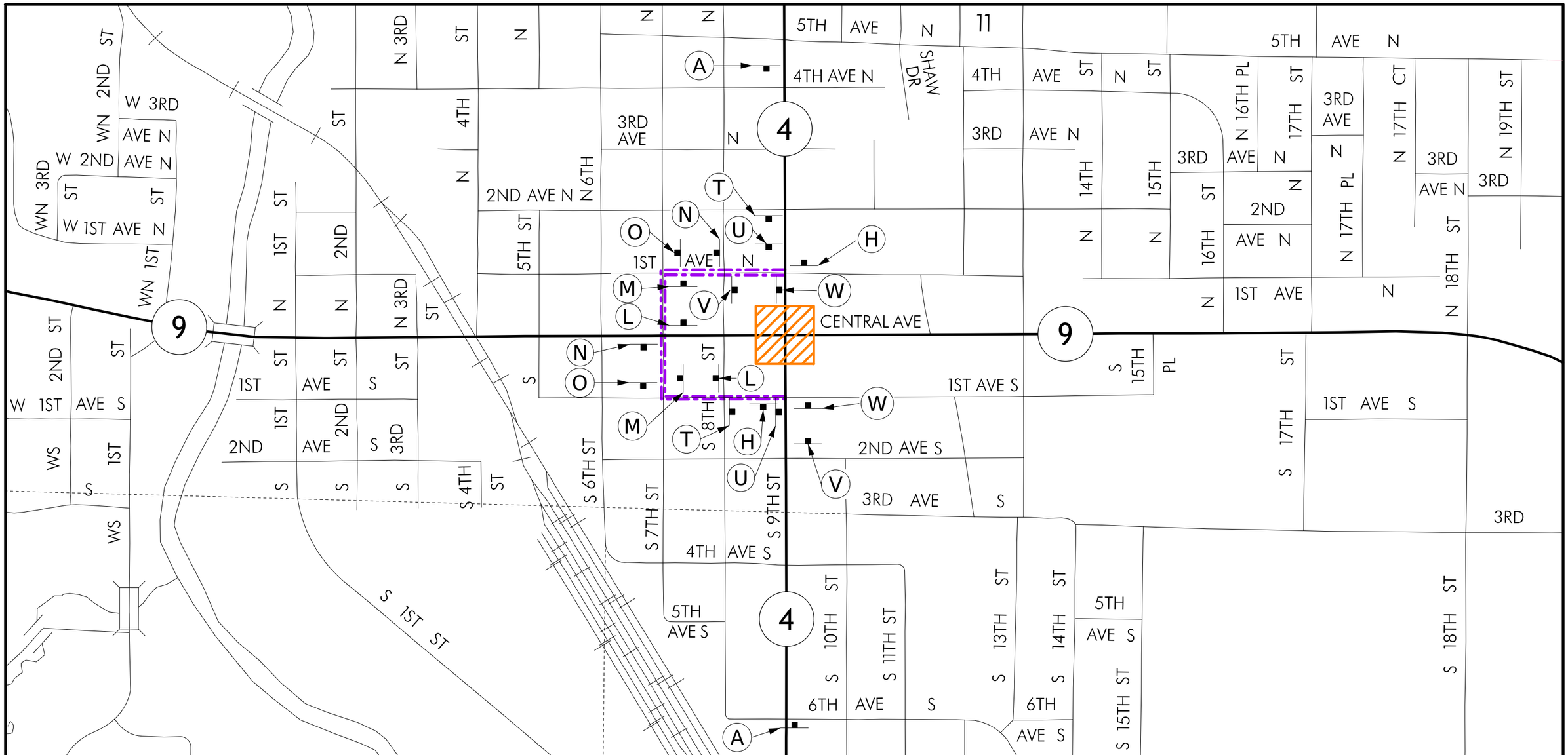

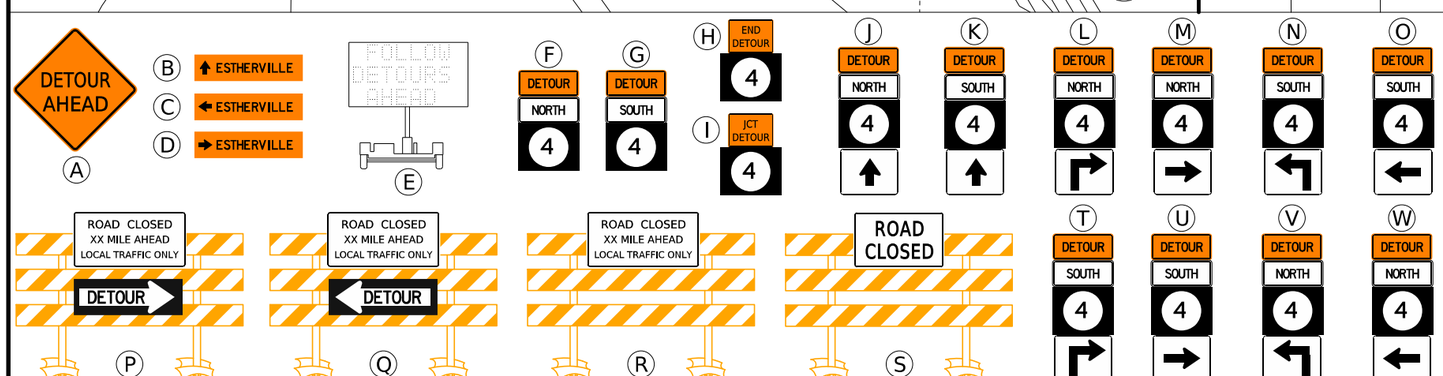

IA-4 PROPOSED DETOUR - STAGE 1A

NOTE:

USE 8TH STREET VIA 1ST AVE N & S

COVER ANY CONFLICTING SIGNAGE

IA-9 ON GLOBAL DETOUR. SEE SHEET J.1

TRAFFIC CONTROL LEGEND

- TRAFFIC SIGN
- TYPE III BARRICADE
- DETOUR ROUTE
- WORK AREA

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER J.2

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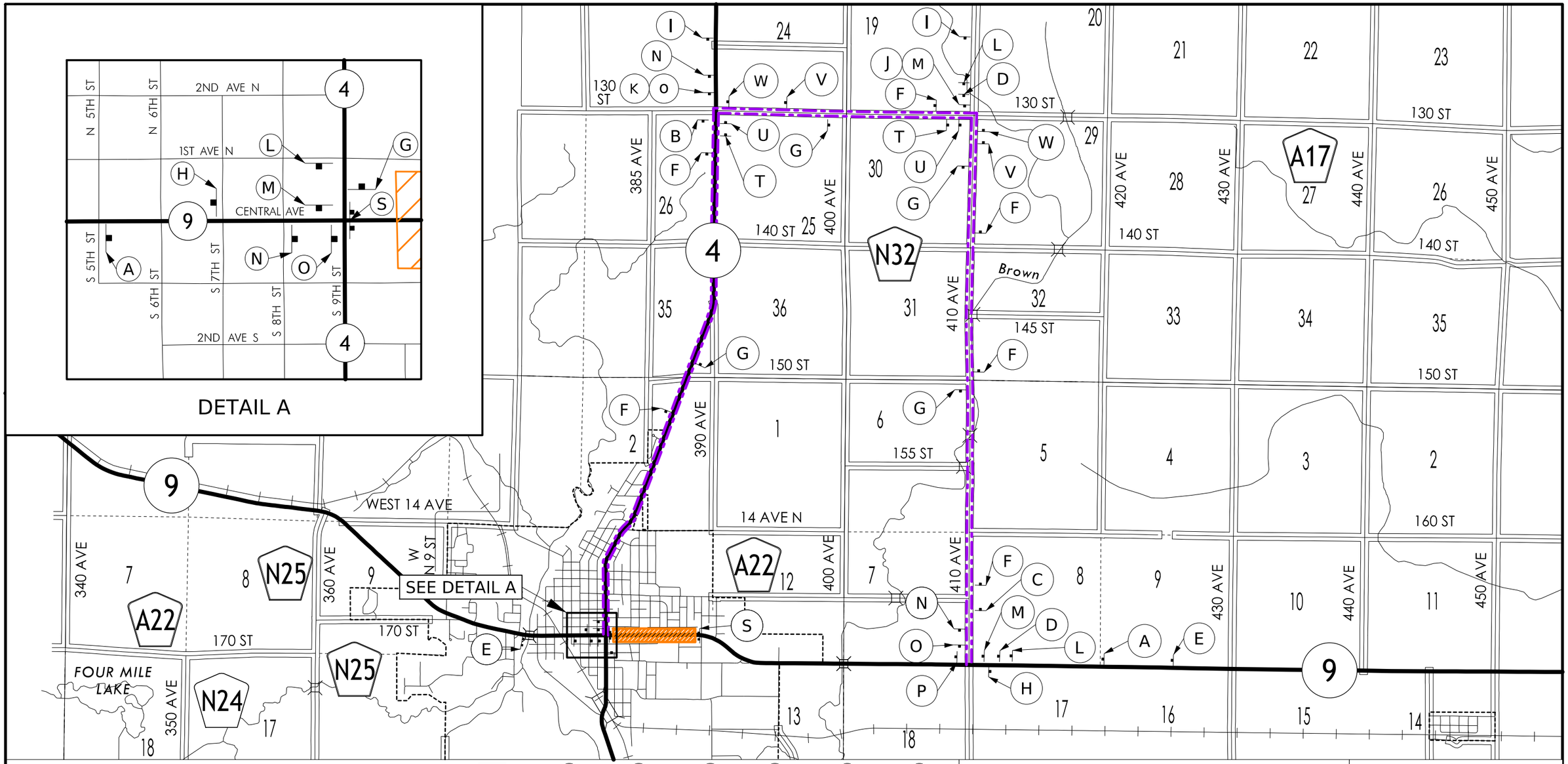

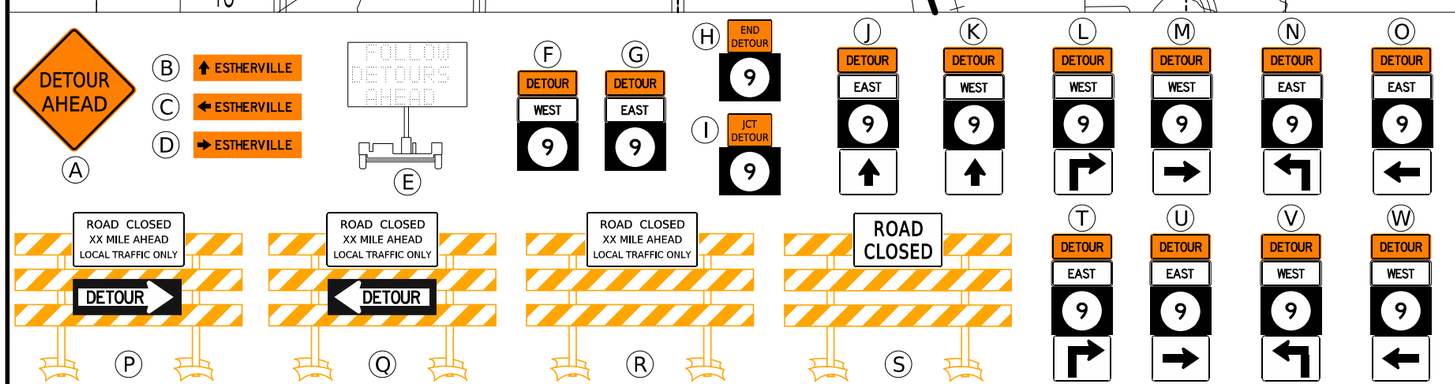

IA-9 PROPOSED DETOUR - STAGE 3

NOTE:

COVER ANY CONFLICTING SIGNAGE

TRAFFIC CONTROL LEGEND

- TRAFFIC SIGN
- TYPE III BARRICADE
- DETOUR ROUTE
- WORK AREA

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER J.3

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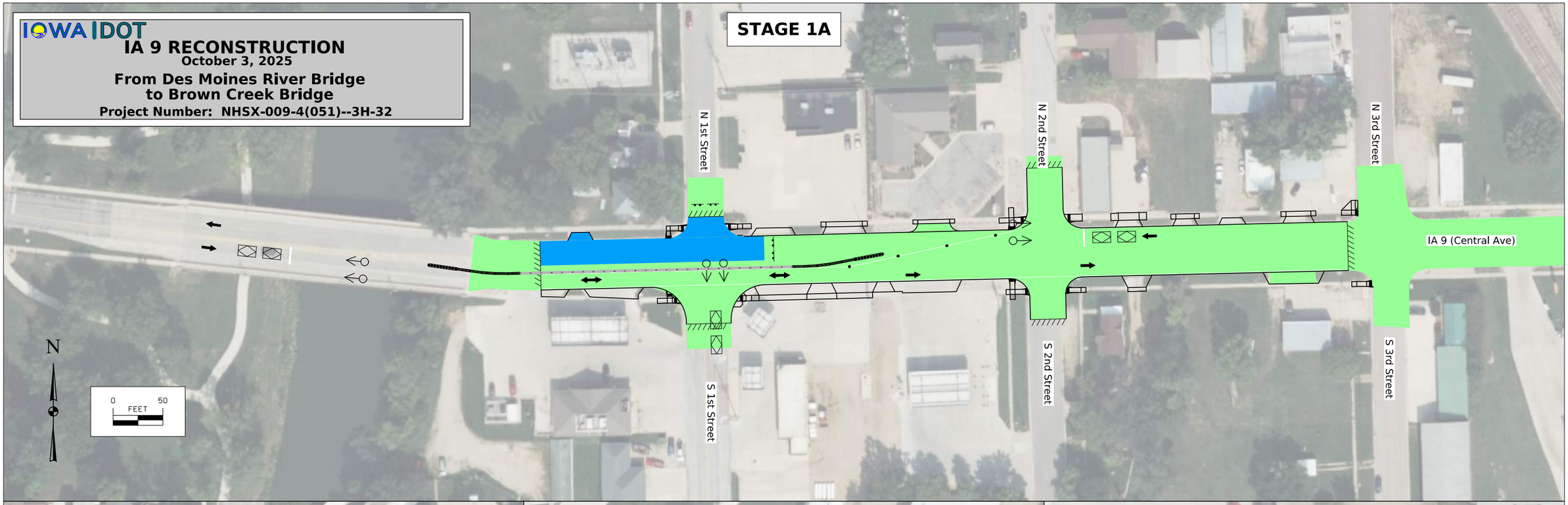
IOWA DOT

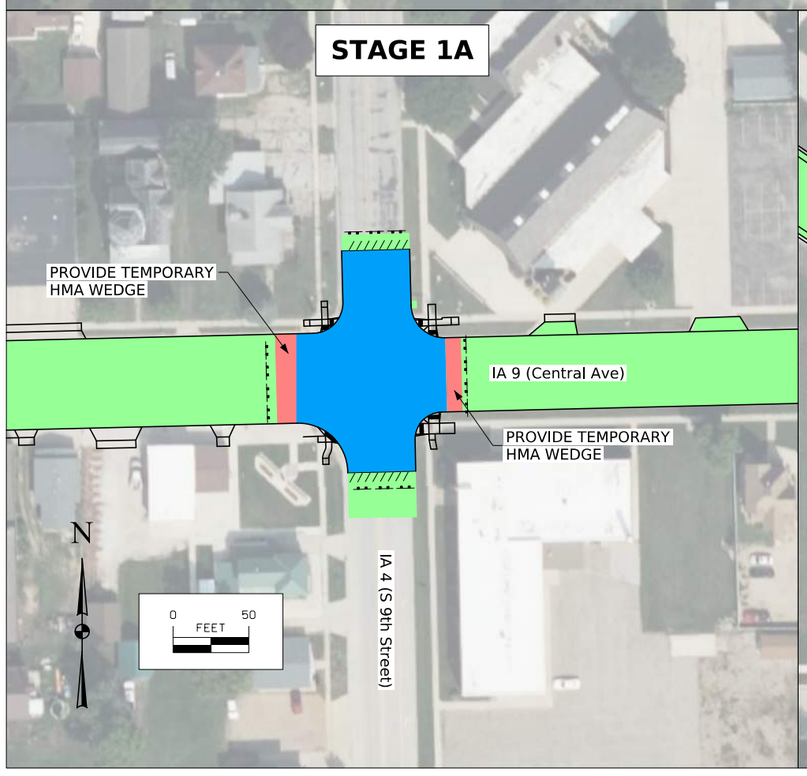
IA 9 RECONSTRUCTION

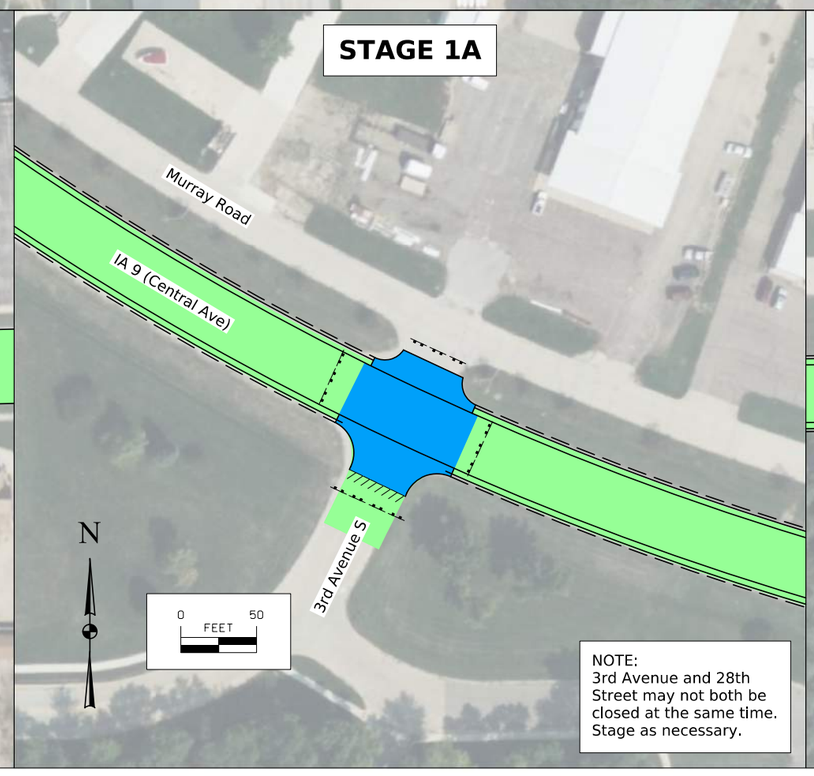
October 3, 2025

From Des Moines River Bridge
to Brown Creek Bridge

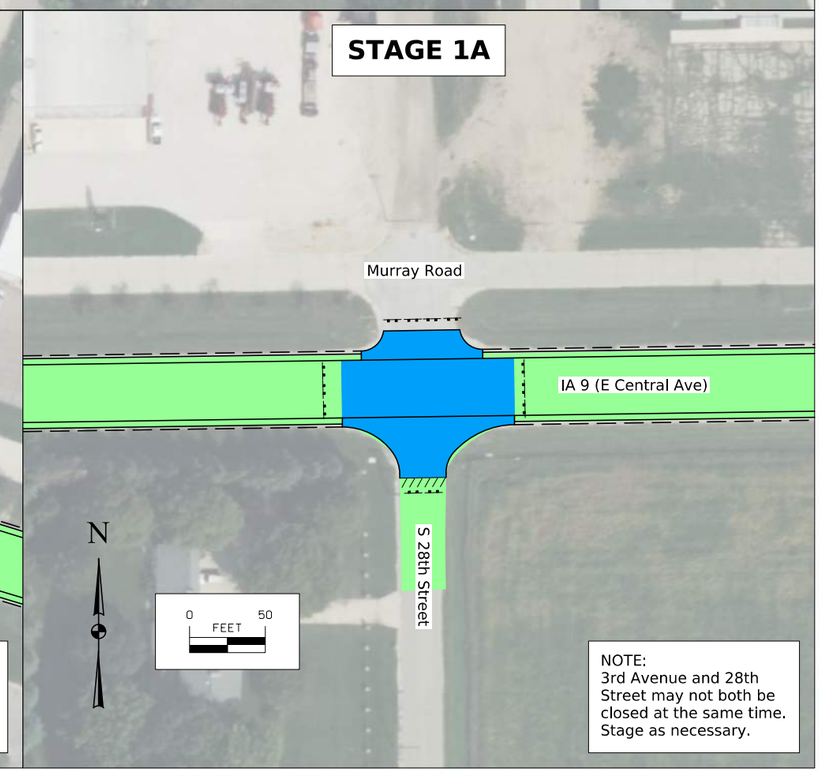
Project Number: NHSX-009-4(051)--3H-32







NOTE:
3rd Avenue and 28th
Street may not both be
closed at the same time.
Stage as necessary.



NOTE:
3rd Avenue and 28th
Street may not both be
closed at the same time.
Stage as necessary.

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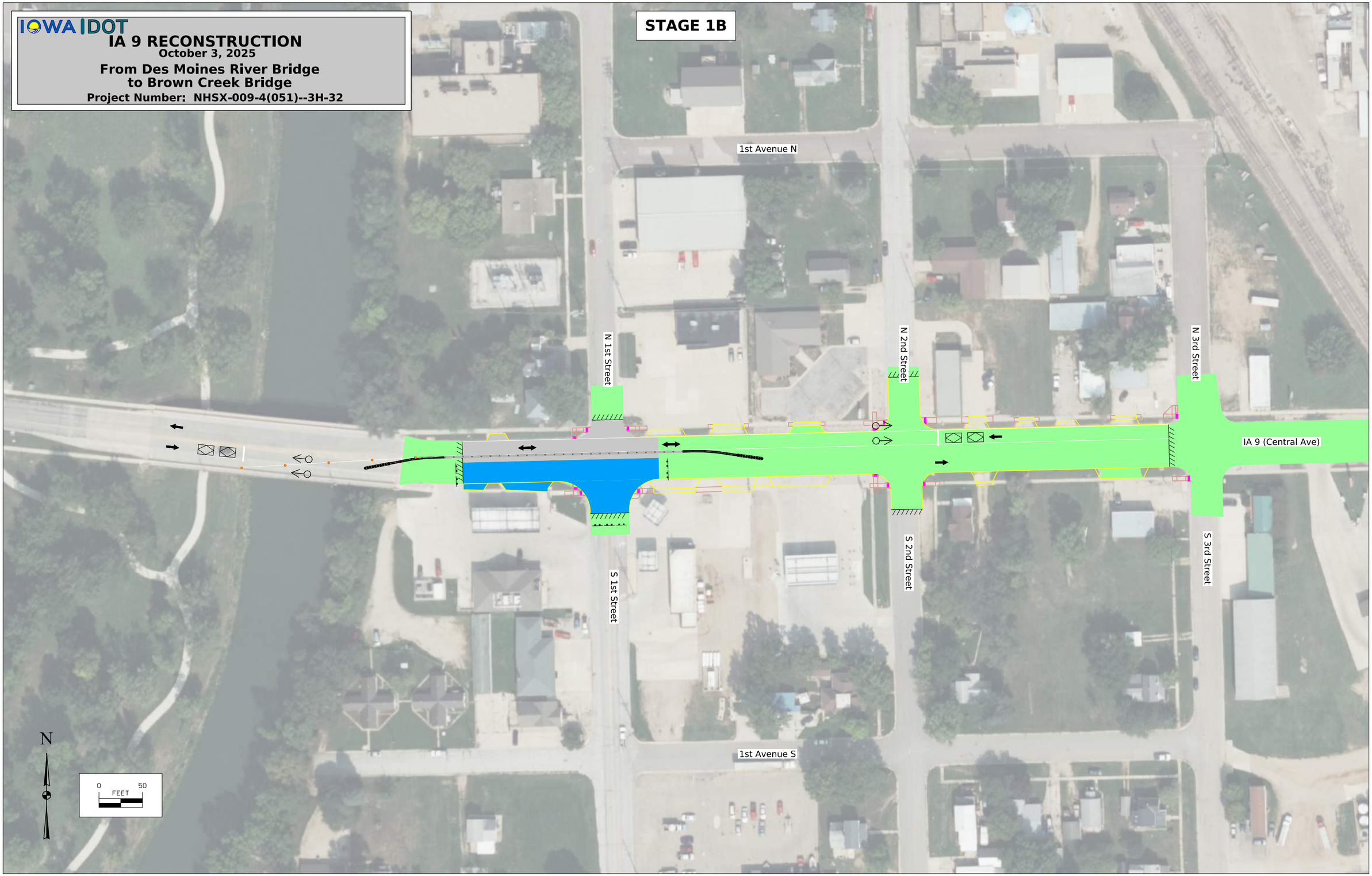
IOWA DOT

IA 9 RECONSTRUCTION

October 3, 2025

From Des Moines River Bridge to Brown Creek Bridge

Project Number: NHSX-009-4(051)--3H-32



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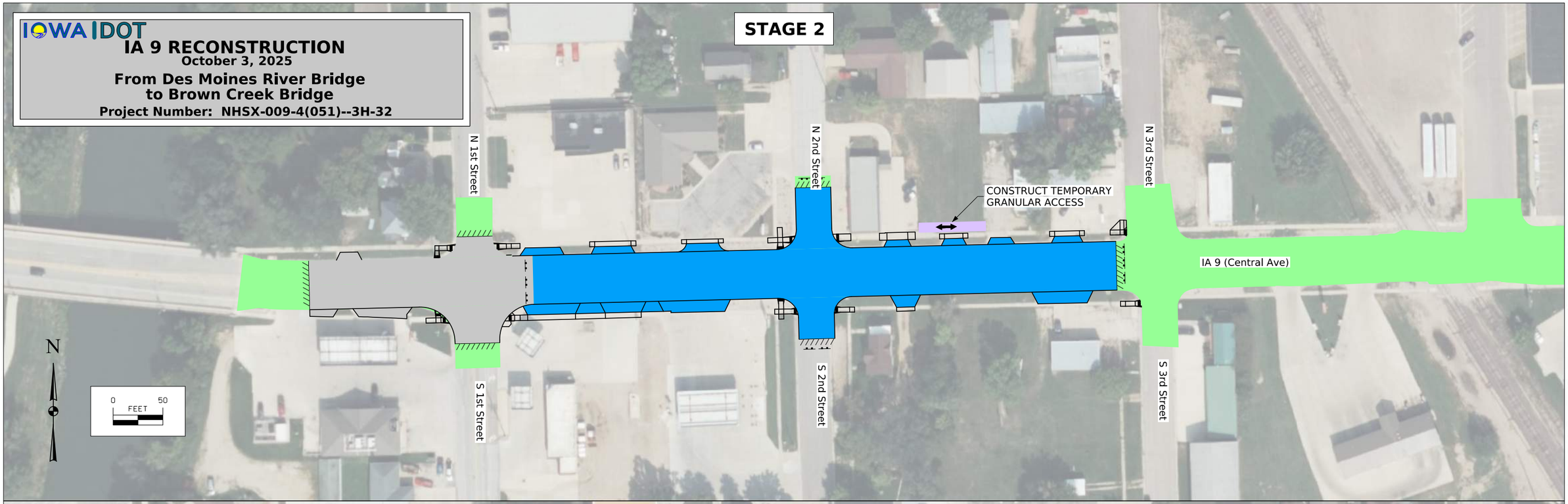
IOWA DOT

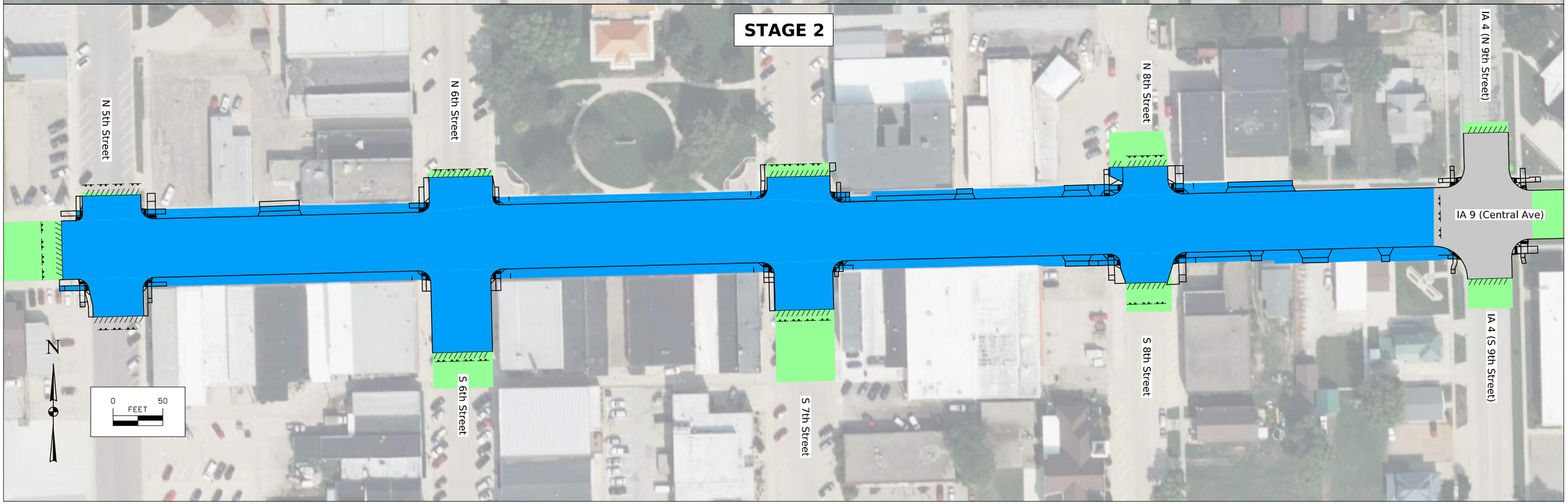
IA 9 RECONSTRUCTION

October 3, 2025

From Des Moines River Bridge to Brown Creek Bridge

Project Number: NHSX-009-4(051)--3H-32





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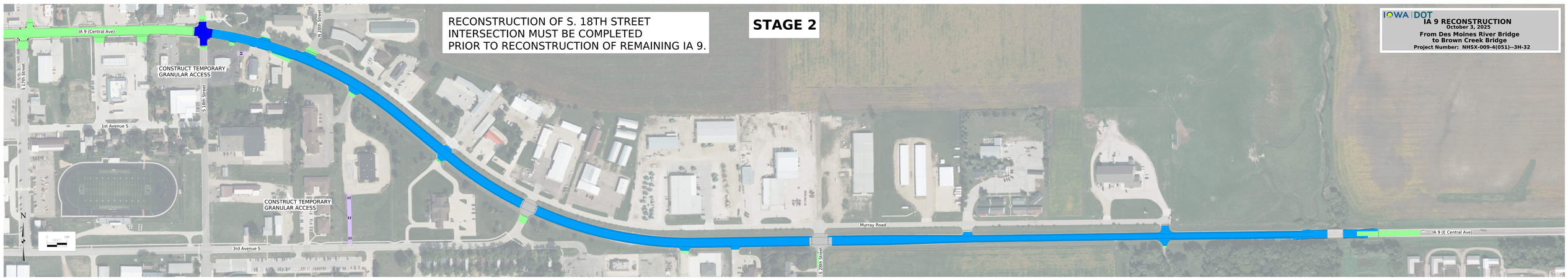

RECONSTRUCTION OF S. 18TH STREET
INTERSECTION MUST BE COMPLETED
PRIOR TO RECONSTRUCTION OF REMAINING IA 9.
STAGE 2
IOWA DOT
IA 9 RECONSTRUCTION
October 3, 2025
From Des Moines River Bridge
to Brown Creek Bridge
Project Number: NHSX-009-4(051)--3H-32
IA 9 (Central Ave)
CONSTRUCT TEMPORARY
GRANULAR ACCESS
S 17th Street
S 18th Street
N 20th Street
1st Avenue S
CONSTRUCT TEMPORARY
GRANULAR ACCESS
3rd Avenue S
Murray Road
S 20th Street
IA 9 (E Central Ave)
N
0 100
FEET

IOWA DOT

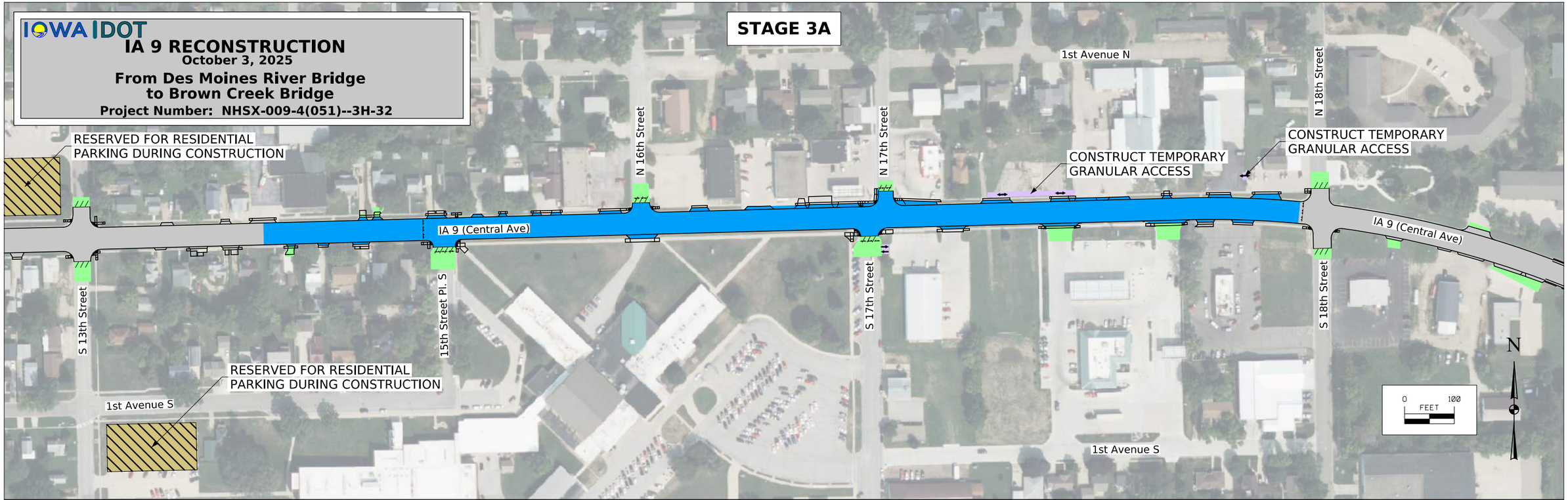
IA 9 RECONSTRUCTION

October 3, 2025

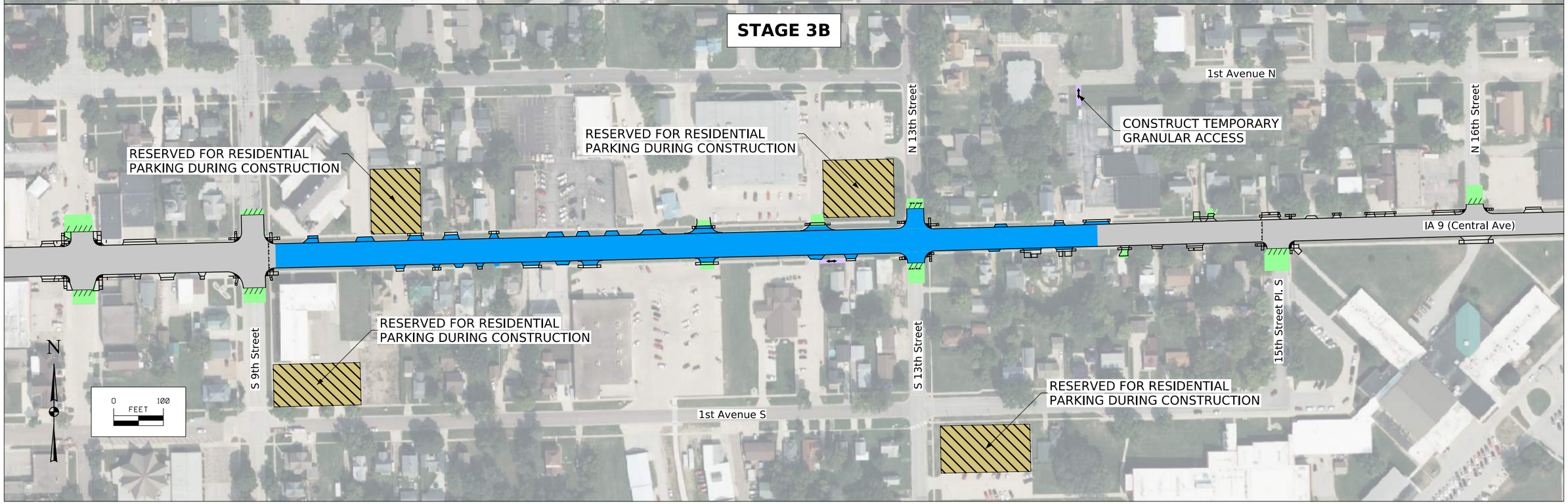
From Des Moines River Bridge to Brown Creek Bridge

Project Number: NHSX-009-4(051)--3H-32

STAGE 3A



STAGE 3B



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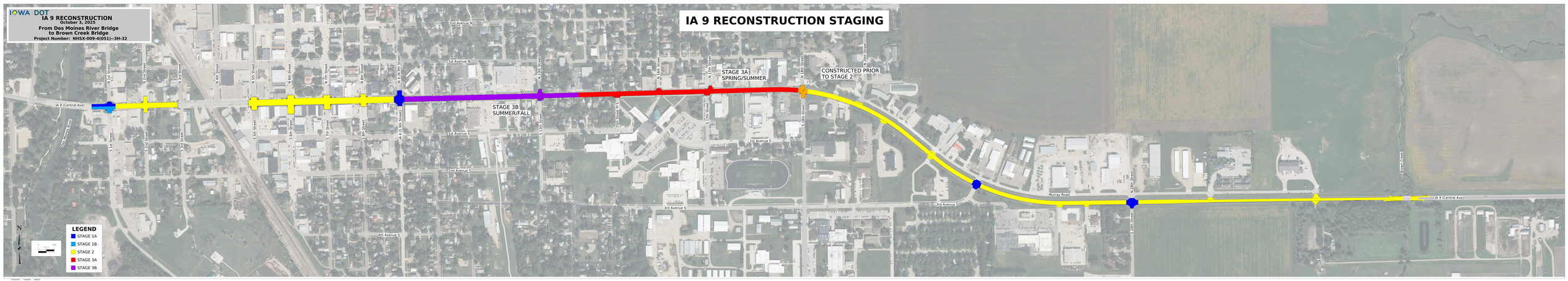
IOWA DOT
IA 9 RECONSTRUCTION
October 3, 2023
From Des Moines River Bridge
to Brown Creek Bridge
Project Number: NHSX-009-4(051)--3H-32
IA 9 RECONSTRUCTION STAGING
STAGE 3A
SPRING/SUMMER
CONSTRUCTED PRIOR
TO STAGE 2
STAGE 3B
SUMMER/FALL
IA 9 (Central Ave)
2nd Avenue N
1st Avenue N
1st Avenue S
2nd Avenue S
3rd Avenue S
4th Avenue S
Murray Road
N 1st Street
N 2nd Street
N 3rd Street
N 4th Street
N 5th Street
N 6th Street
N 7th Street
N 8th Street
N 9th Street
N 10th Street
N 11th Street
N 12th Street
N 13th Street
N 14th Street
N 15th Street
N 16th Street
N 17th Street
N 18th Street
N 19th Street
N 20th Street
N 21st Street
N 22nd Street
N 23rd Street
S 1st Street
S 2nd Street
S 3rd Street
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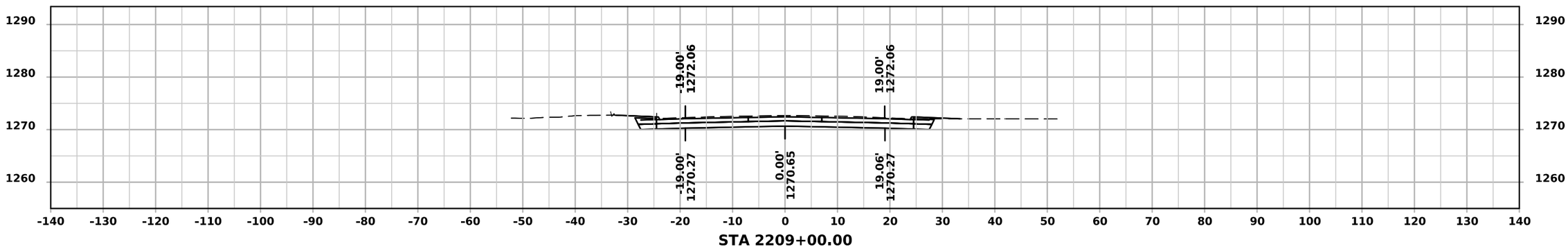
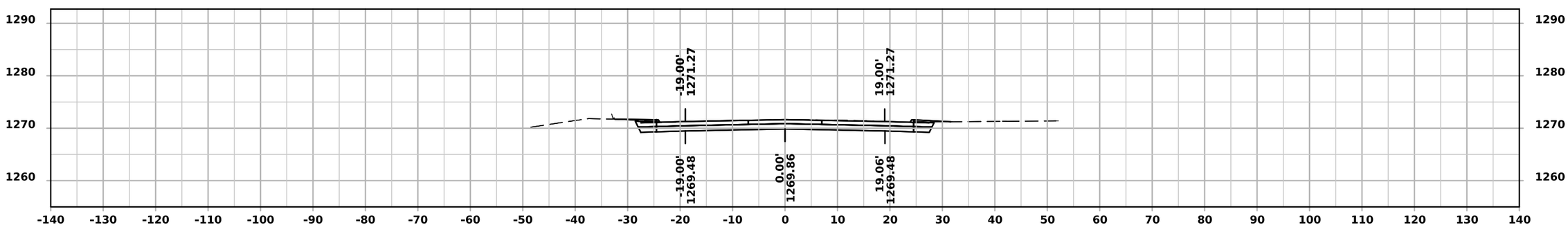
S 9th Street
S 10th Street
S 11th Street
S 12th Street
S 13th Street
S 15th Street
S 17th Street
S 18th Street
S 19th Street
S 20th Street
Iowa Southern Railway
Union Pacific Railroad
Brown Creek
LEGEND
STAGE 1A
STAGE 1B
STAGE 2
STAGE 3A
STAGE 3B
N

ML - IA-9



STA 2209+00.00



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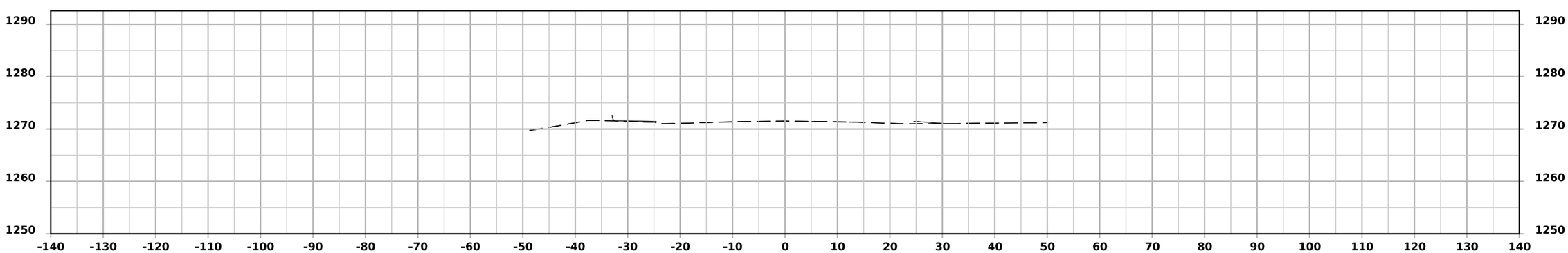
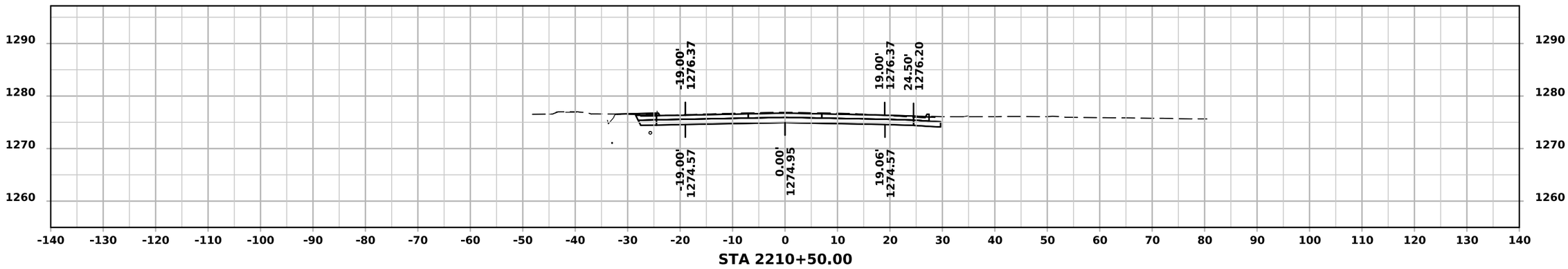


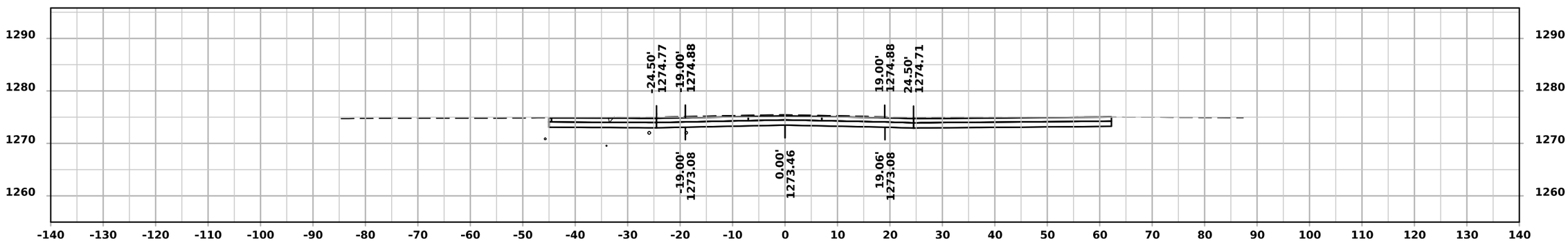
STA 2208+39.08

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.1

ML - IA-9



STA 2210+50.00



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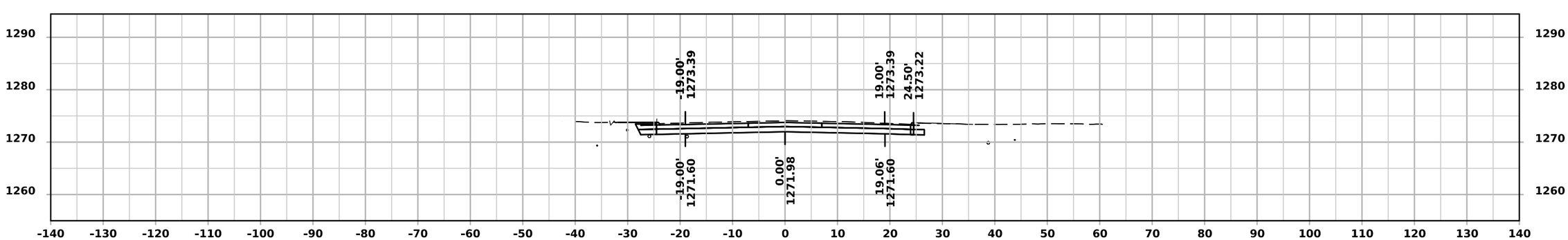

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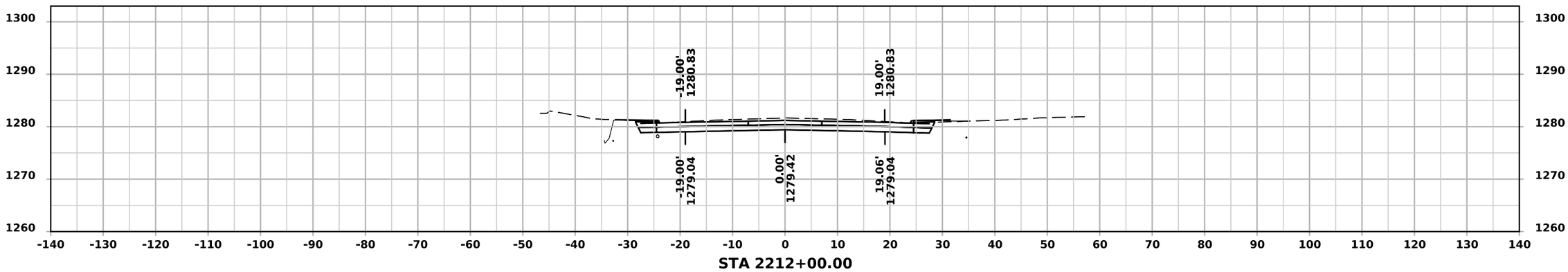
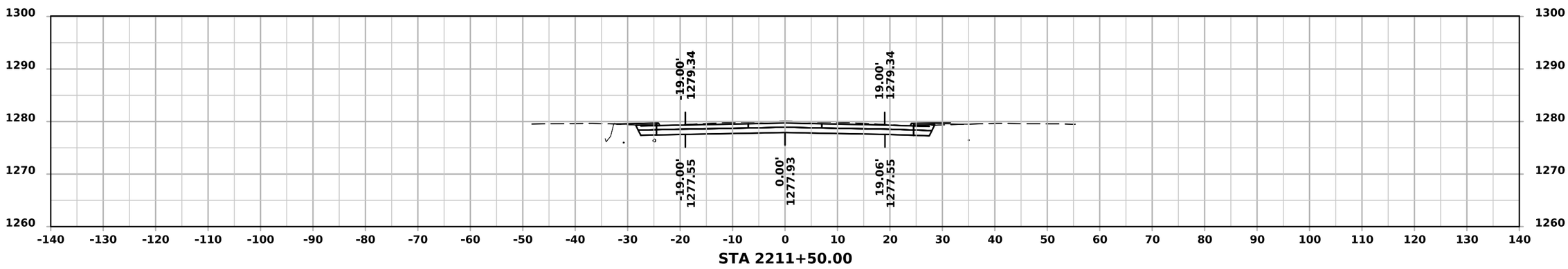
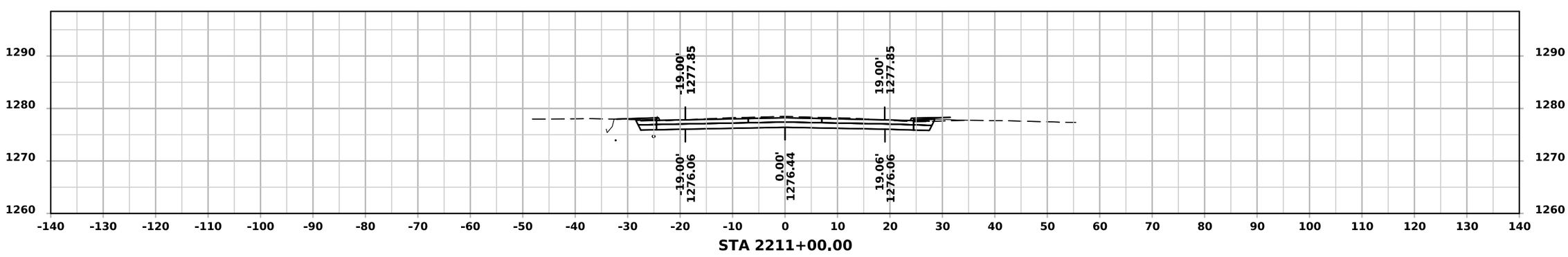
ML - IA-9

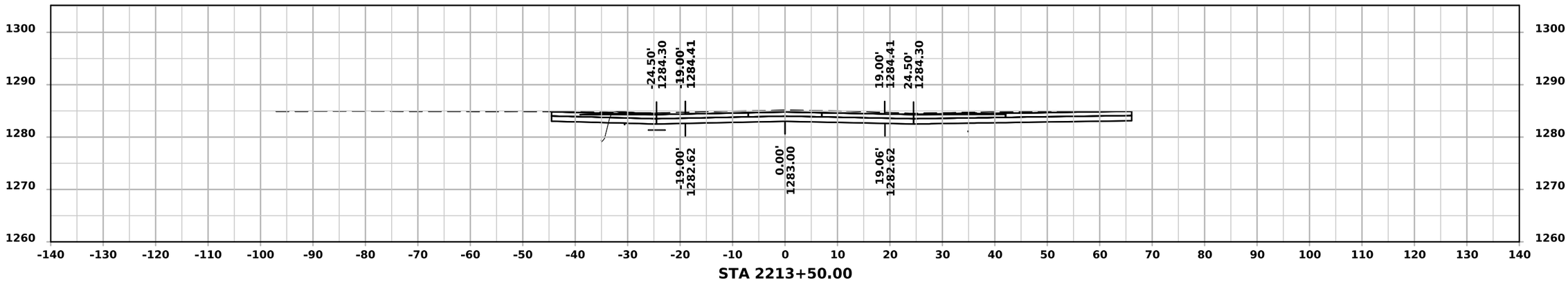




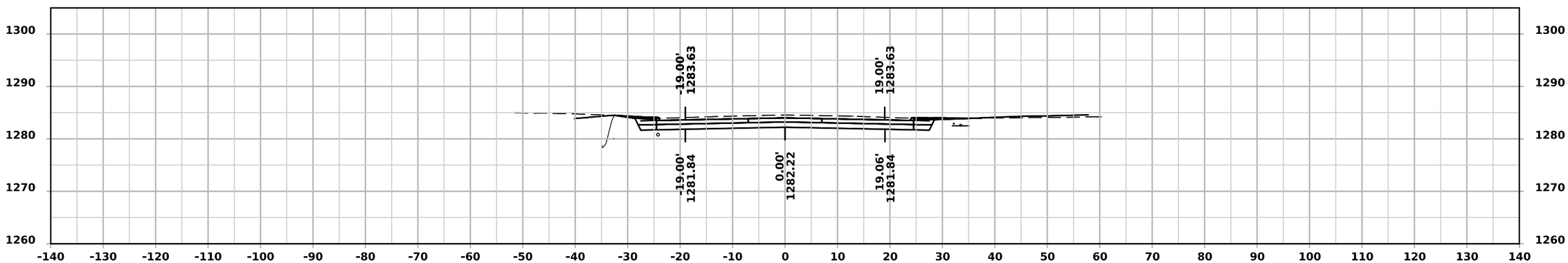


FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.3

ML - IA-9



STA 2213+50.00



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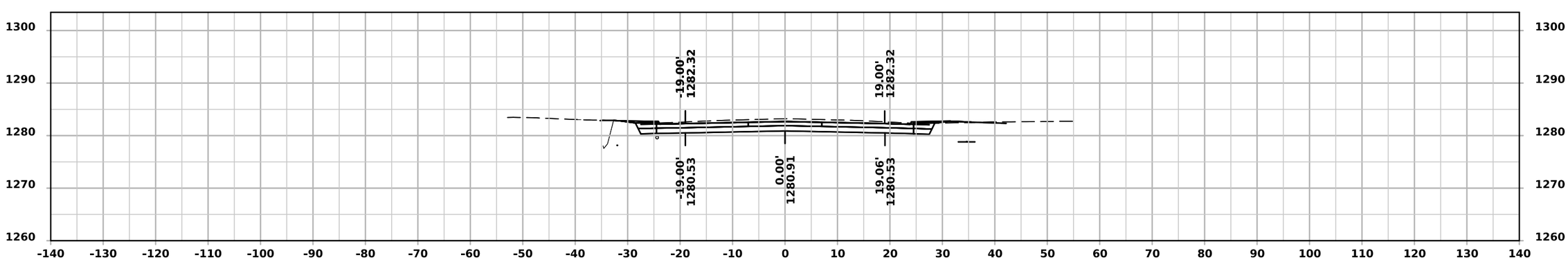

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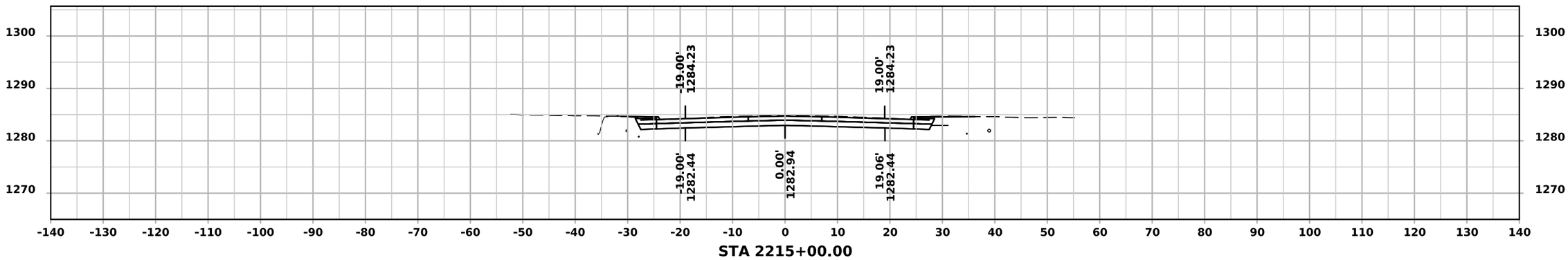
ML - IA-9



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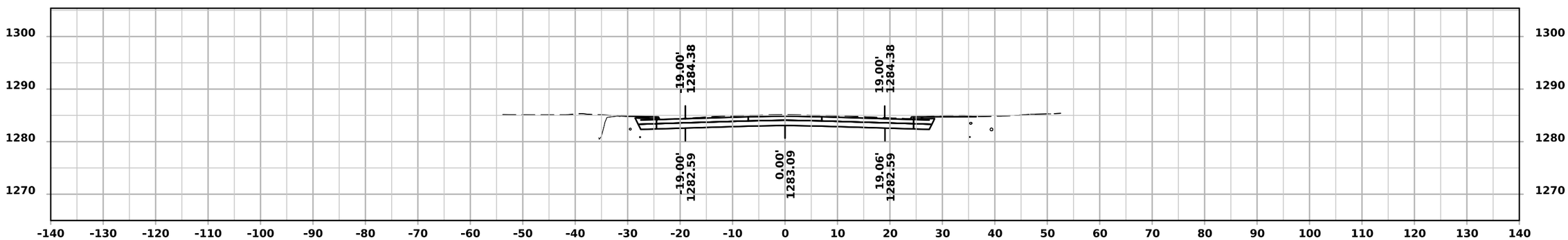

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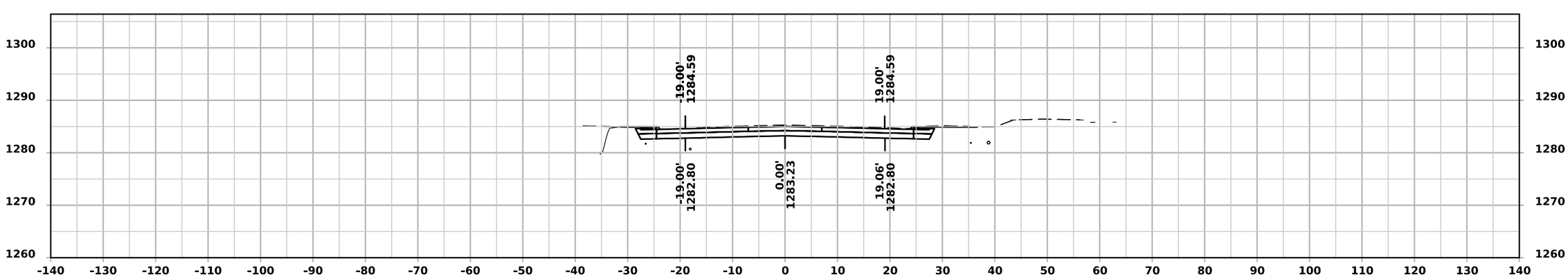
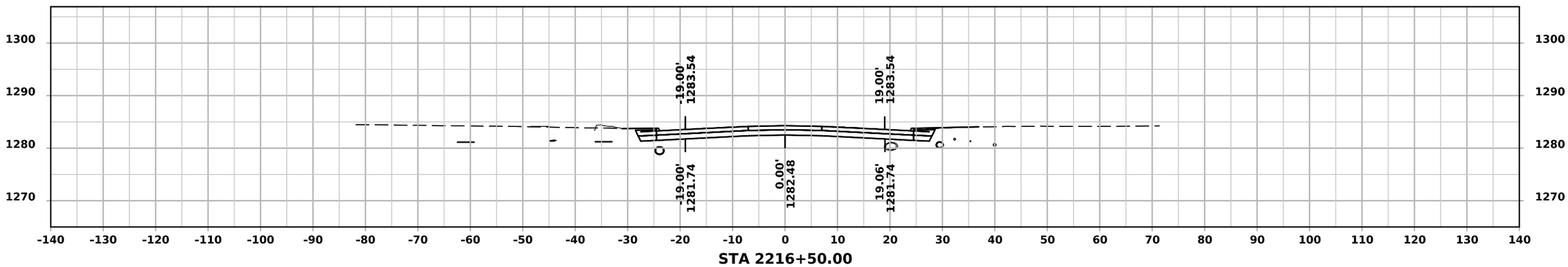
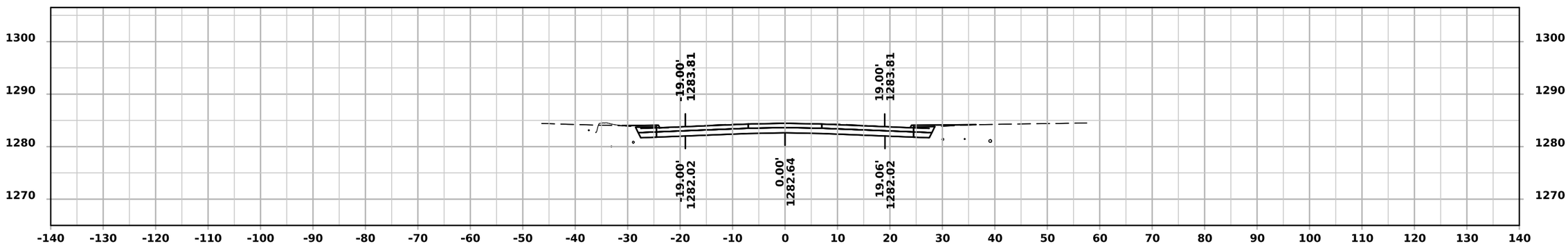


STA 2214+00.00

ML - IA-9



STA 2216+50.00



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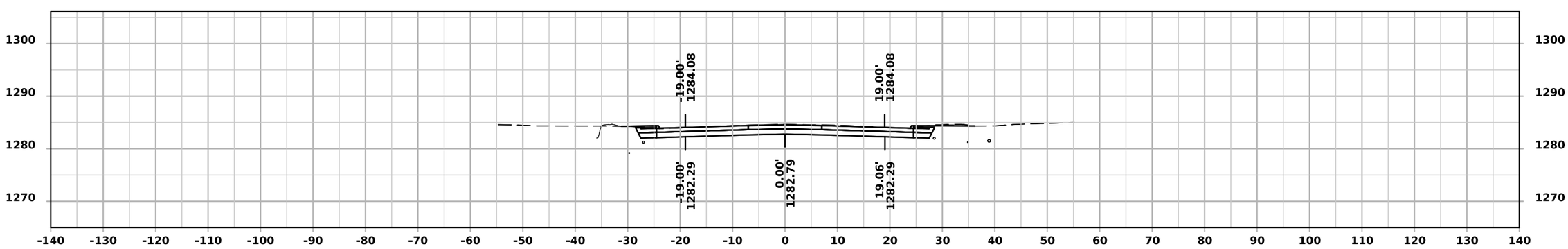
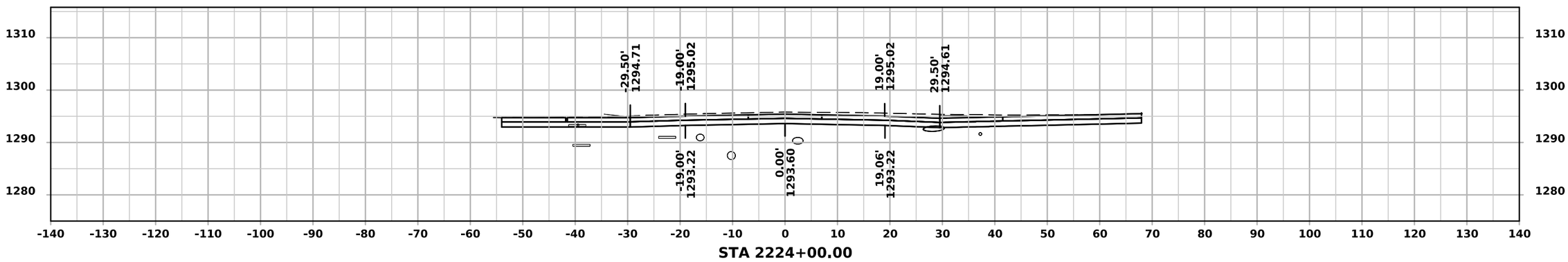
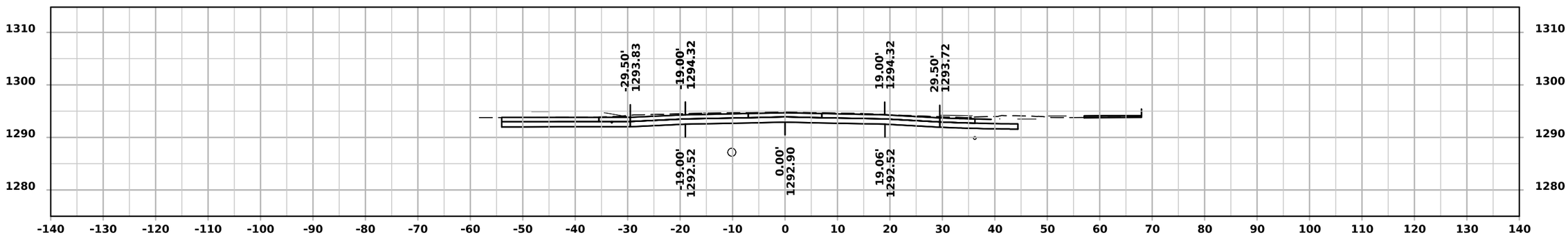


STA 2215+50.00

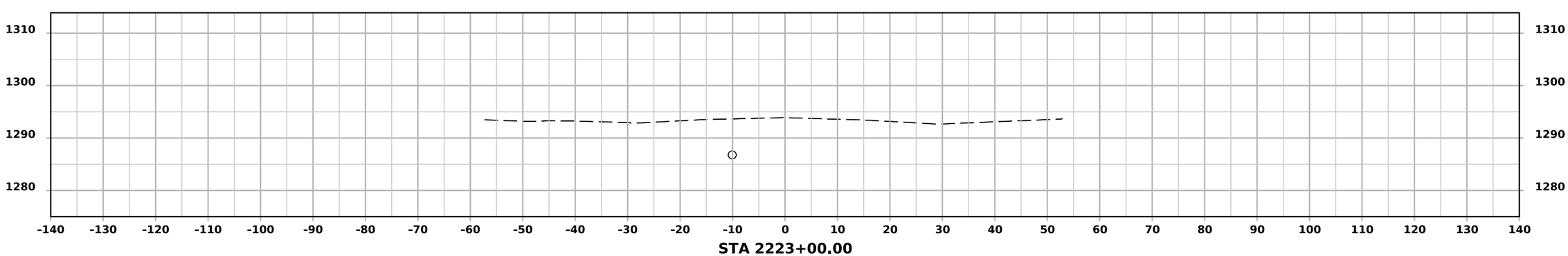
ML - IA-9



STA 2224+00.00

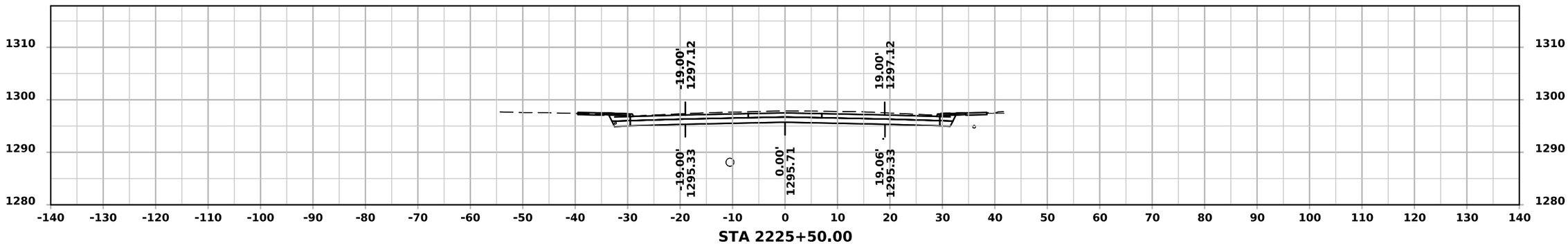


STA 2223+50.00



STA 2223+00.00

ML - IA-9



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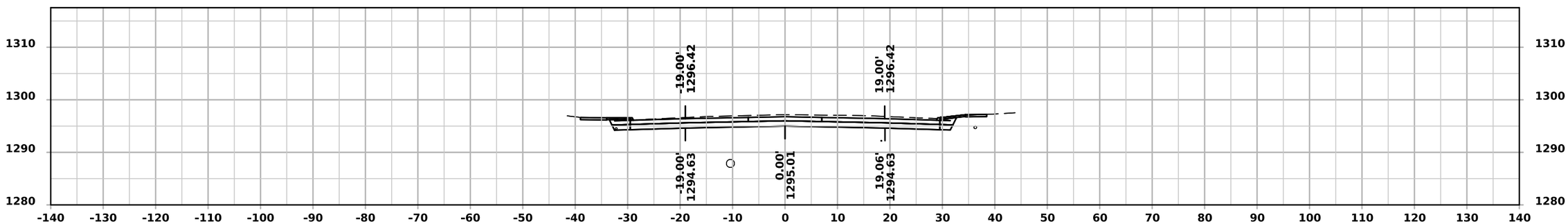
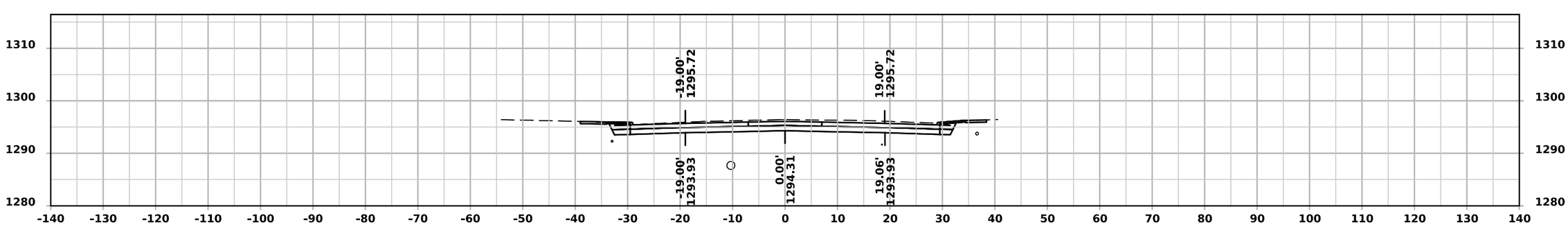
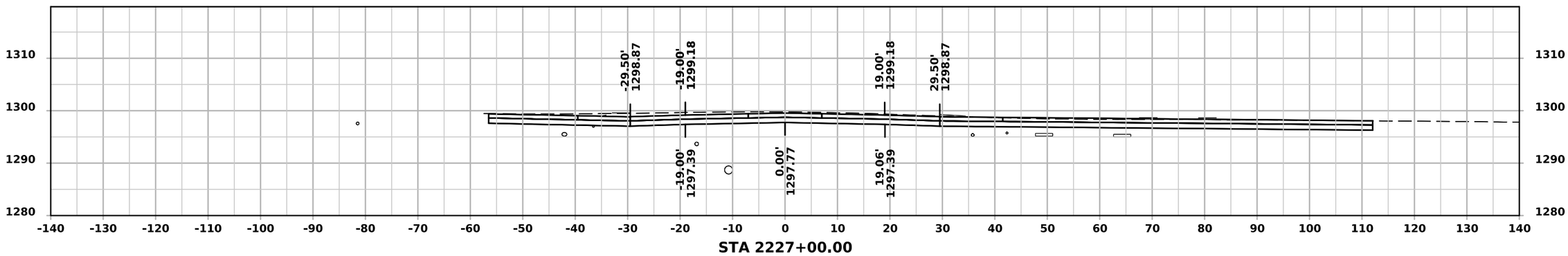


STA 2225+00.00

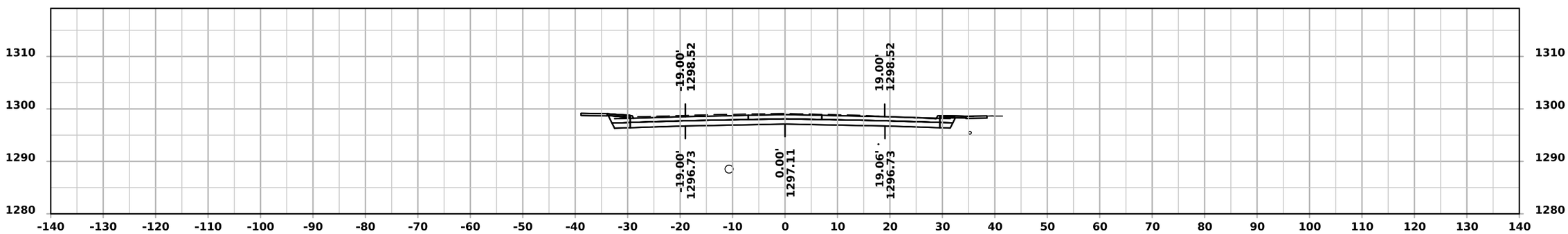


STA 2224+50.00

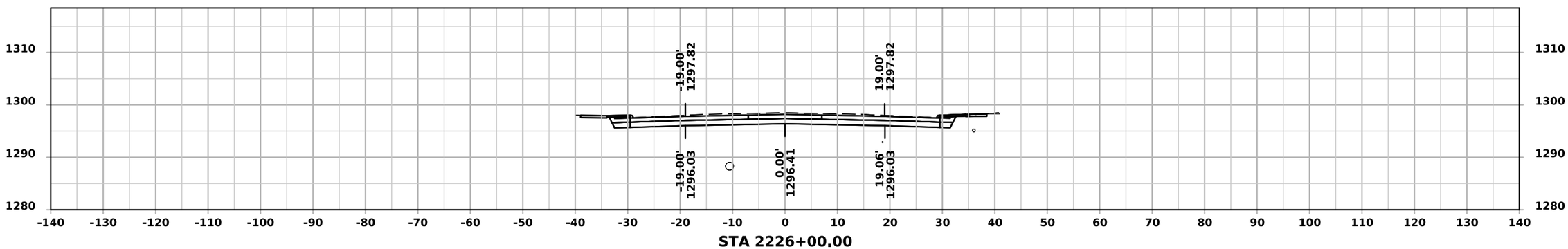
ML - IA-9



STA 2227+00.00

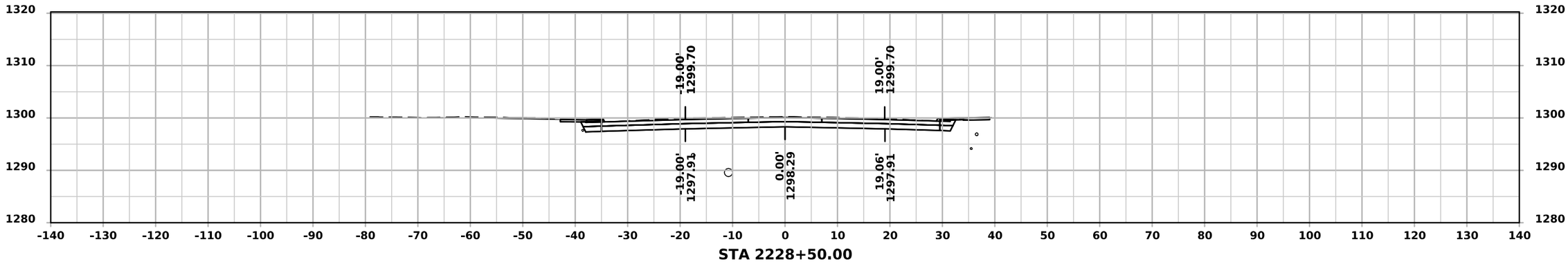


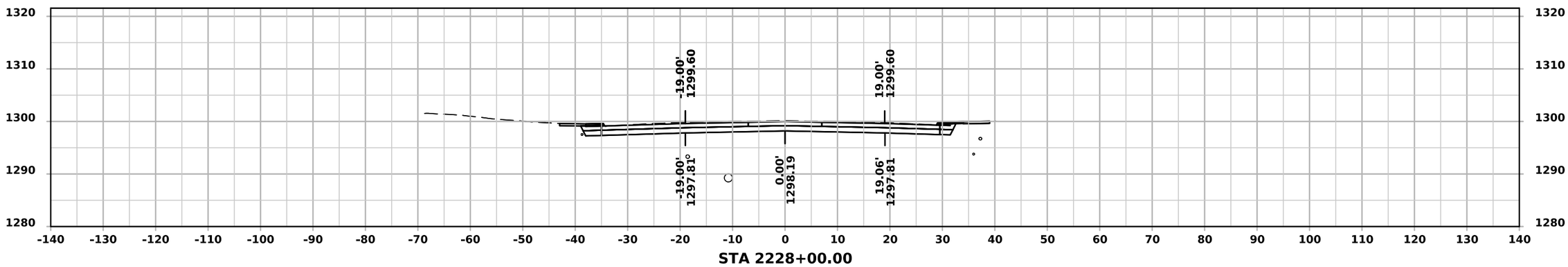
STA 2226+50.00

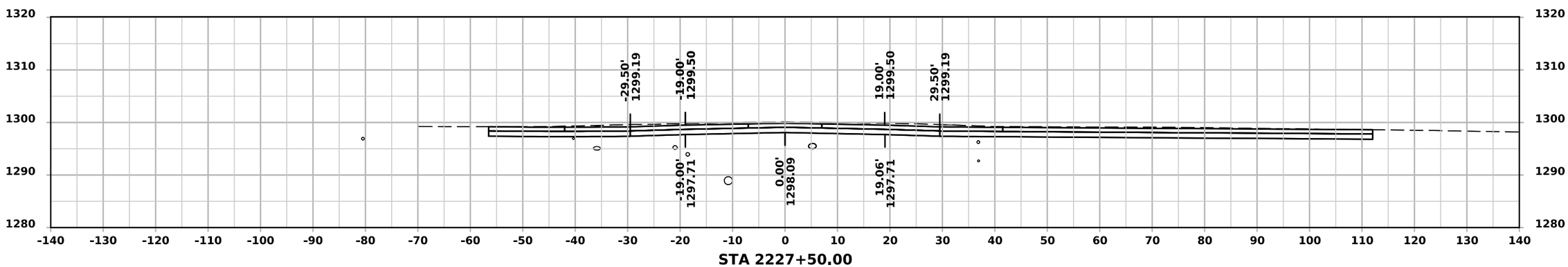


STA 2226+00.00

ML - IA-9

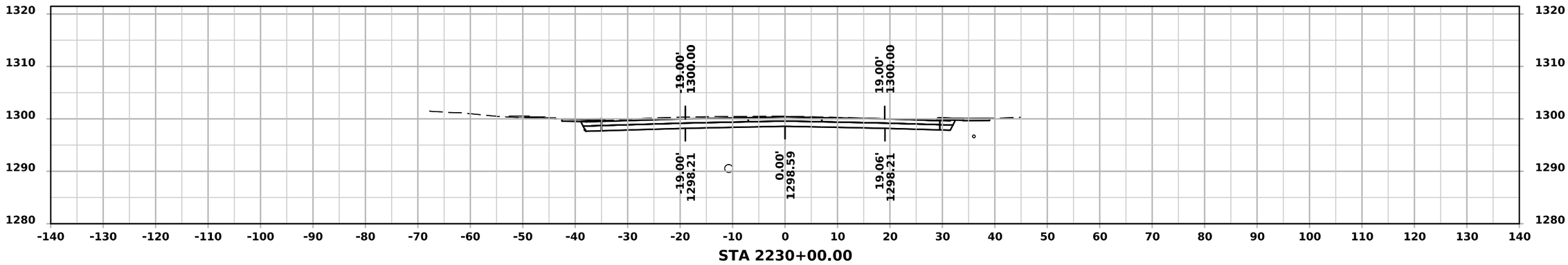


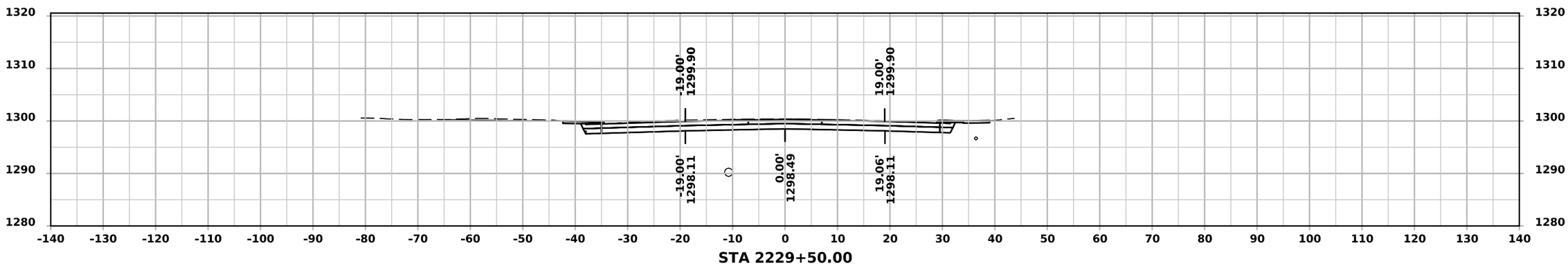


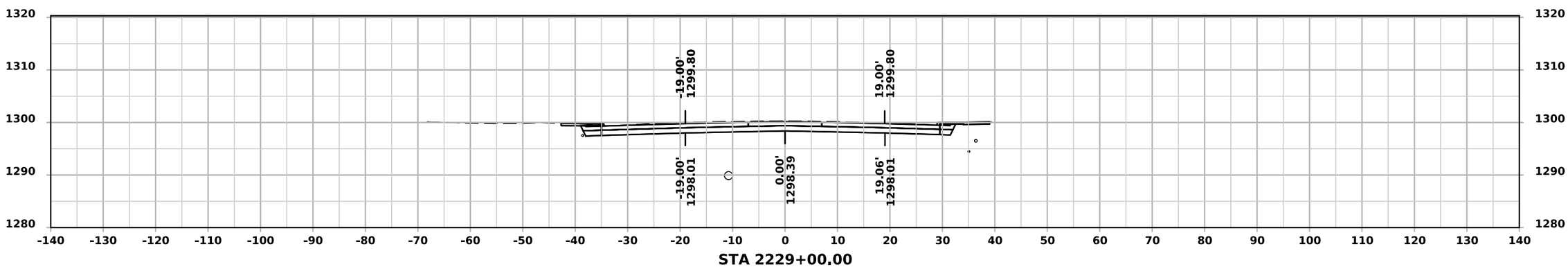


FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.10

ML - IA-9

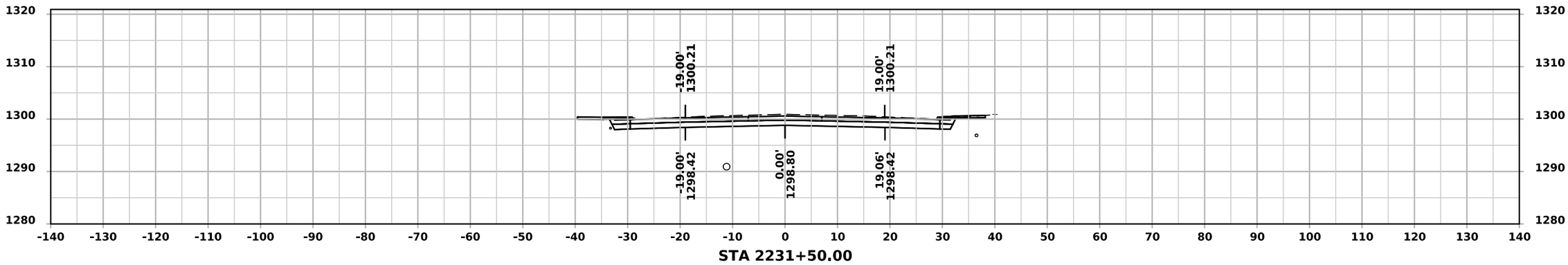


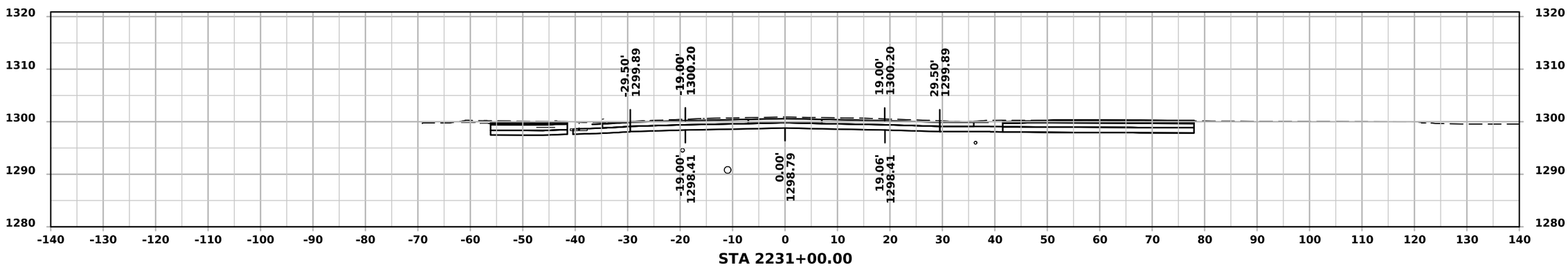


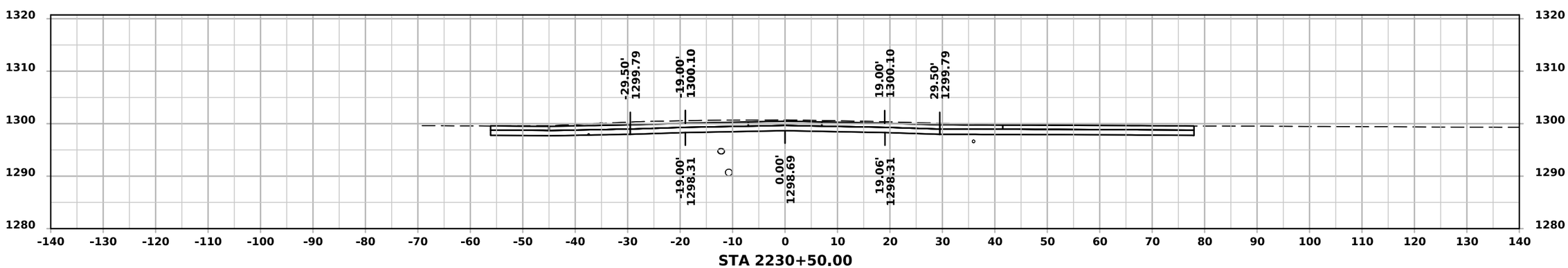


FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.11

ML - IA-9

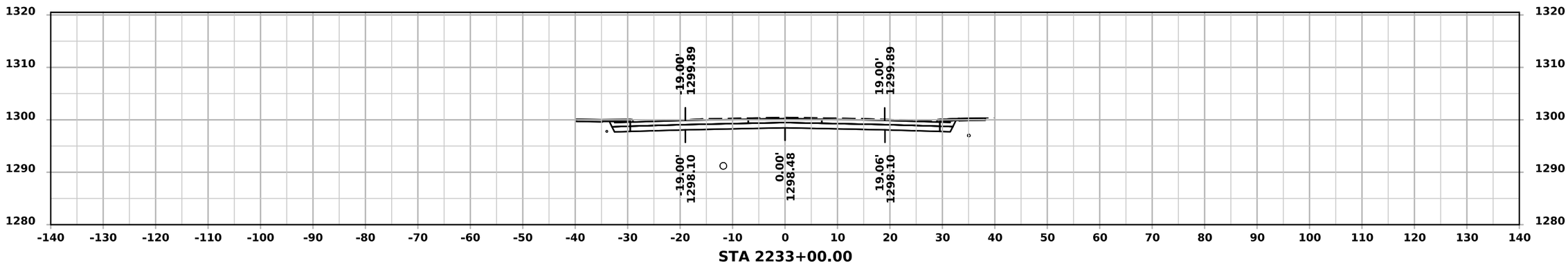


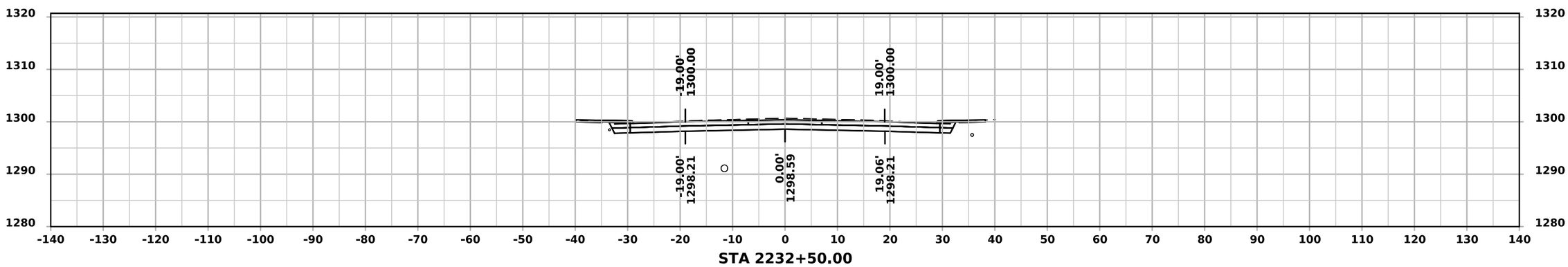


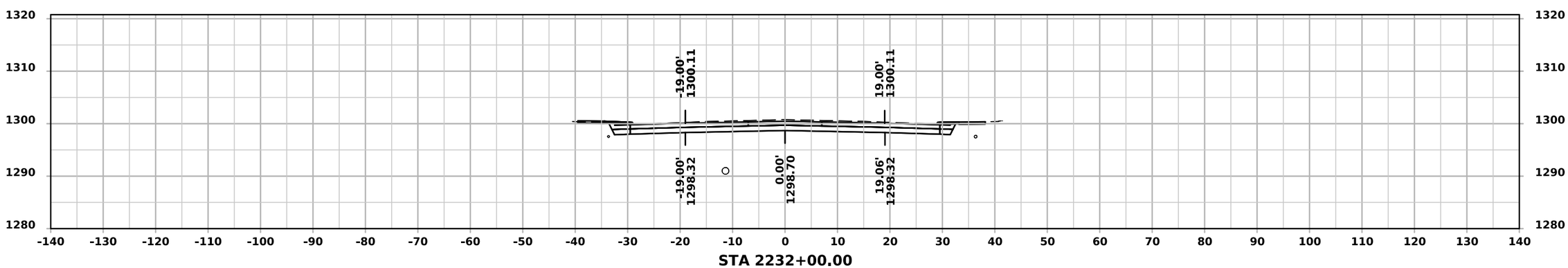


FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.12

ML - IA-9

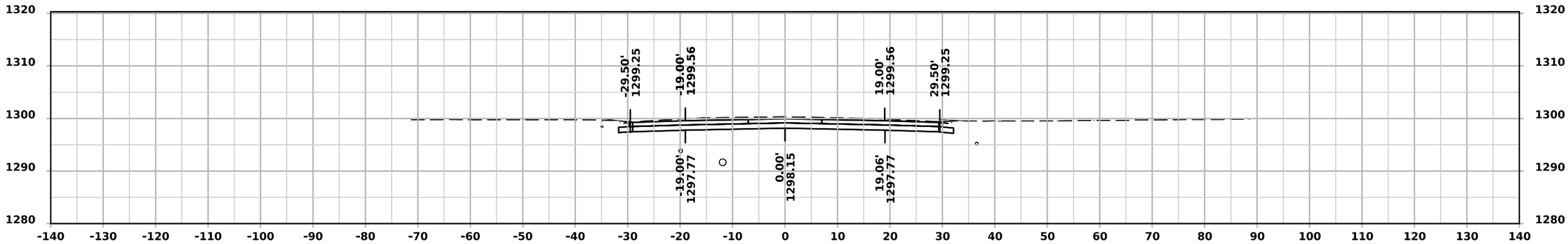




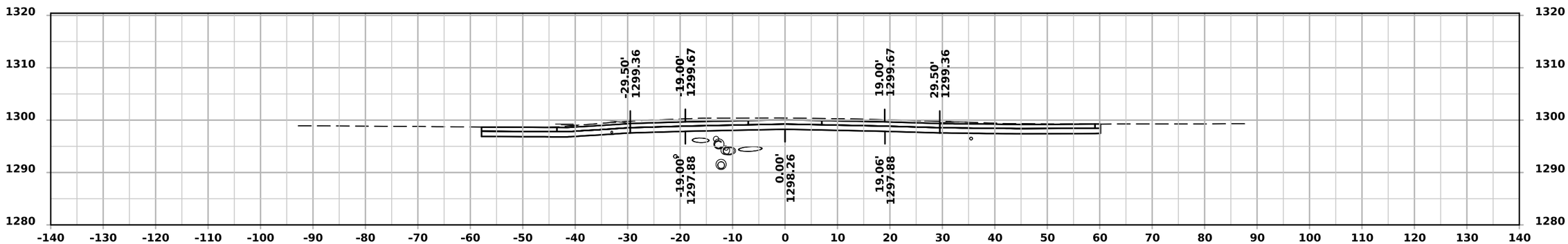


FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.13

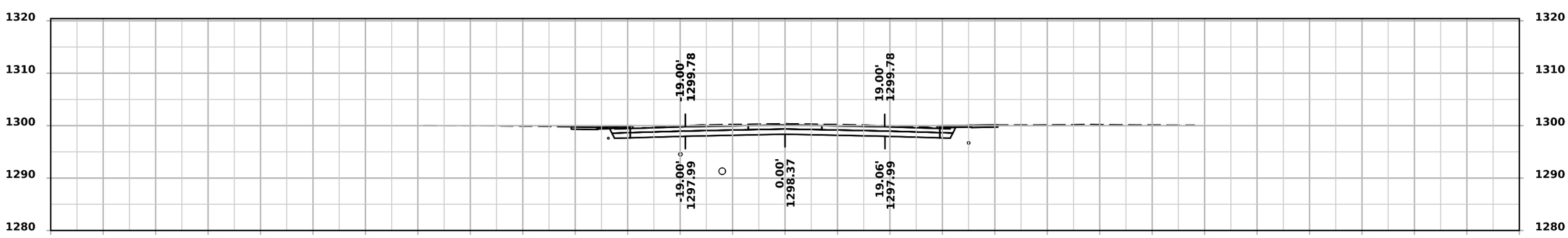
ML - IA-9



STA 2234+50.00



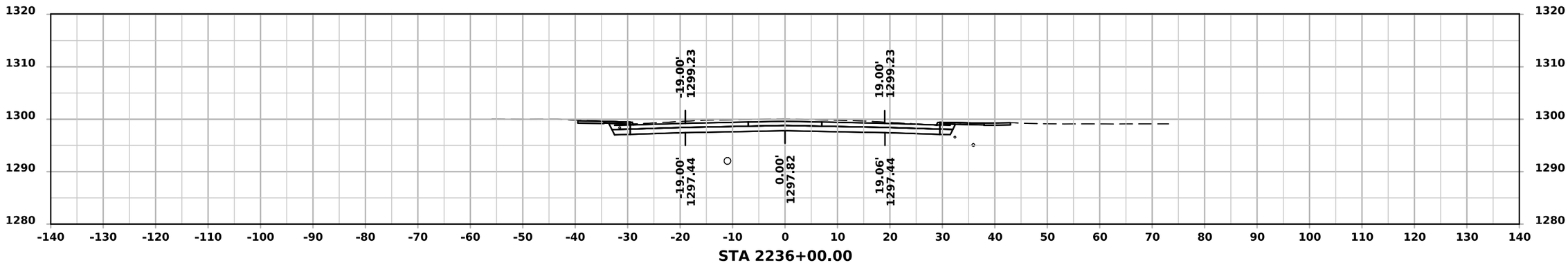
STA 2234+00.00



STA 2233+50.00

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.14

ML - IA-9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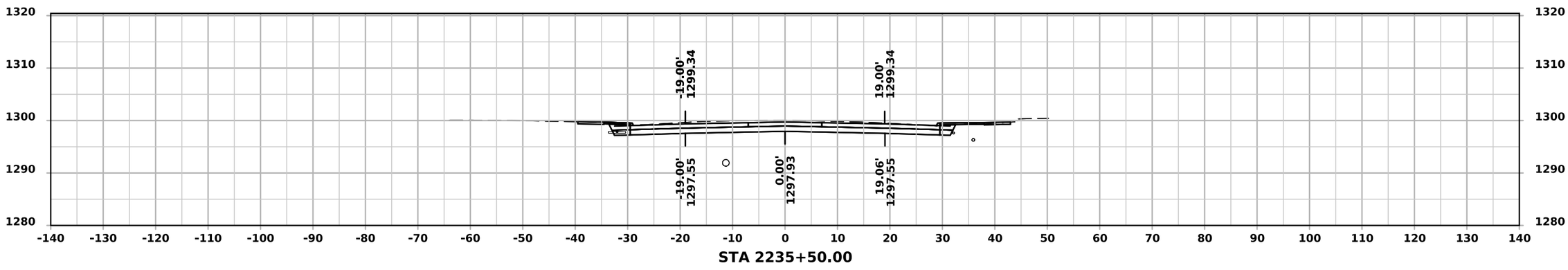
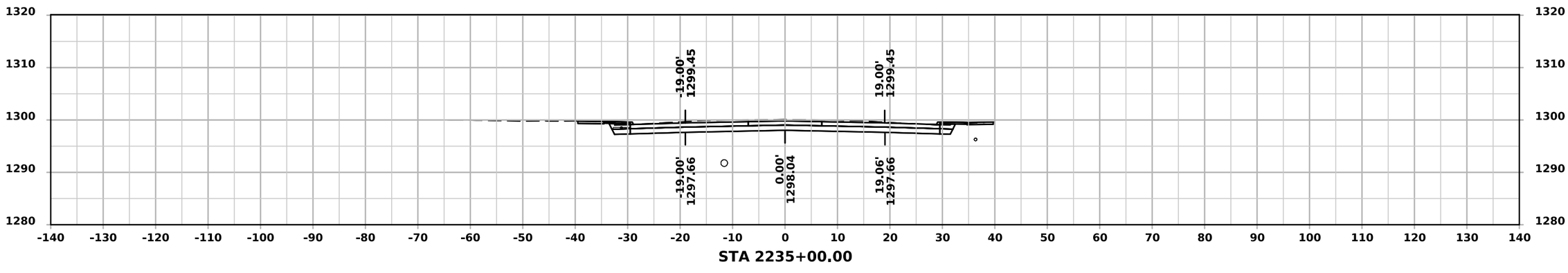
1299.23
19.00'
1299.23
-19.00'
1297.44
0.00'
1297.82
19.06'
1297.44
STA 2236+00.00


-19.00'
1299.34
19.00'
1299.34
-19.00'
1297.55
0.00'
1297.93
19.06'
1297.55
STA 2235+50.00


-19.00'
1299.45
19.00'
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-19.00'
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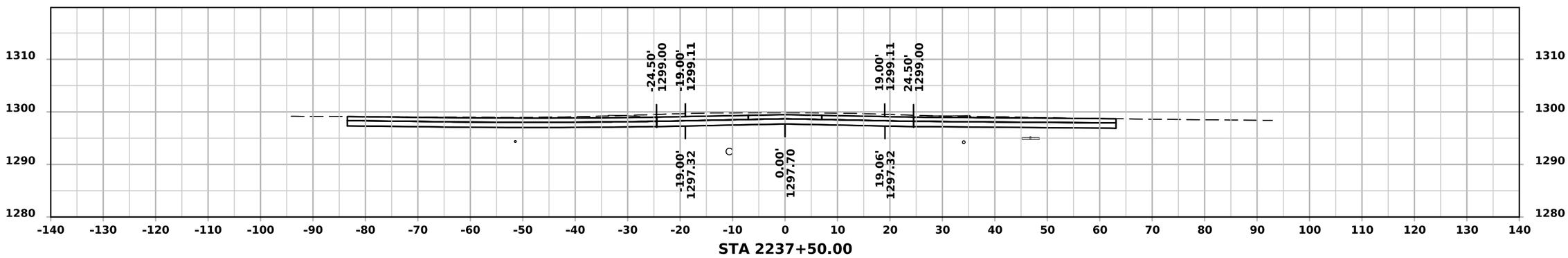
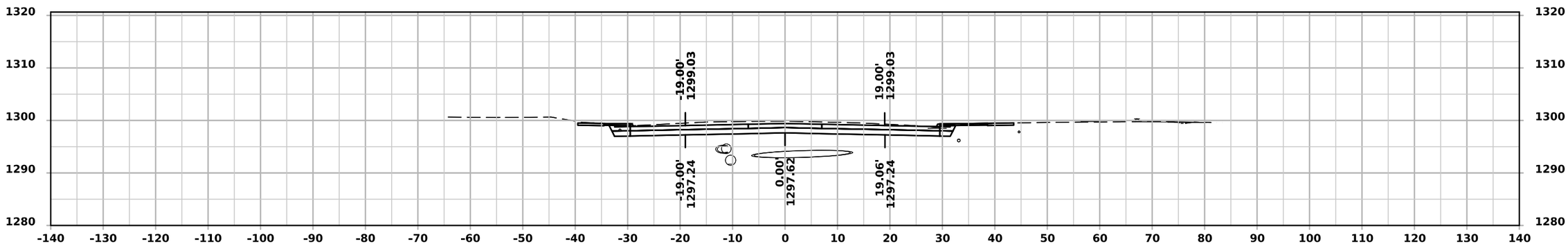
0.00'
1298.04
19.06'
1297.66
STA 2235+00.00

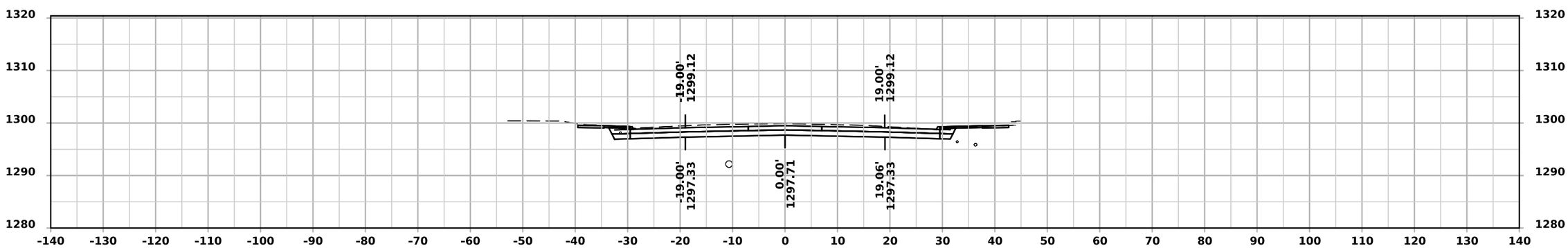
ML - IA-9



STA 2237+50.00

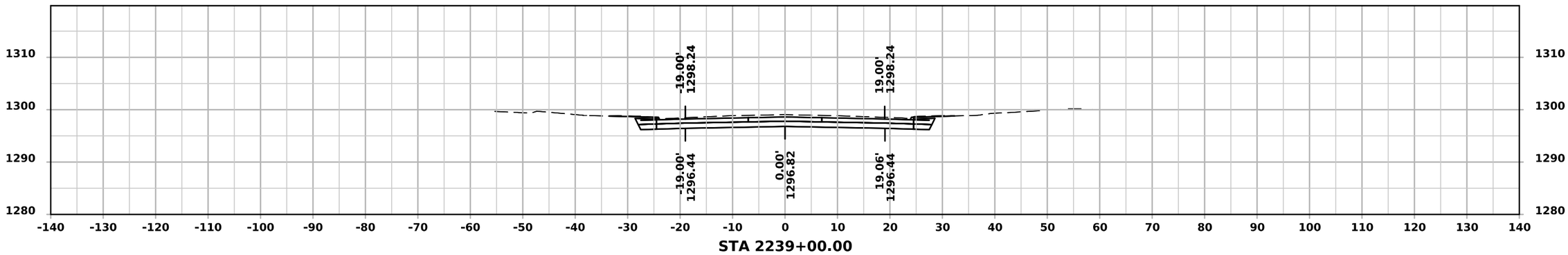


STA 2237+00.00

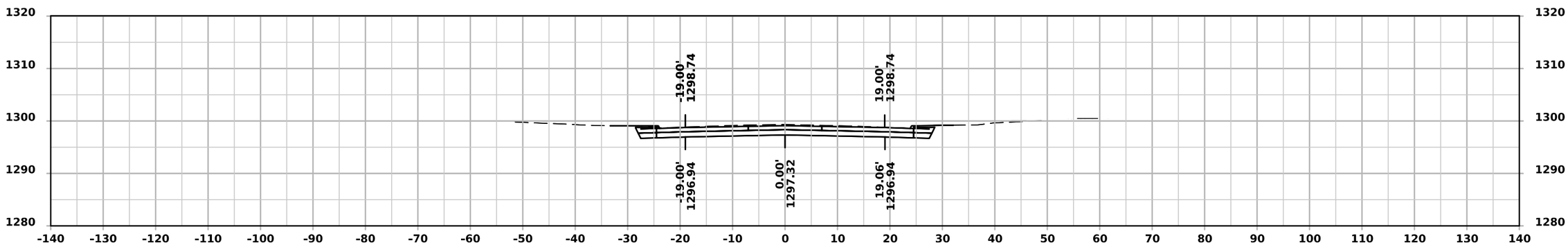


STA 2236+50.00

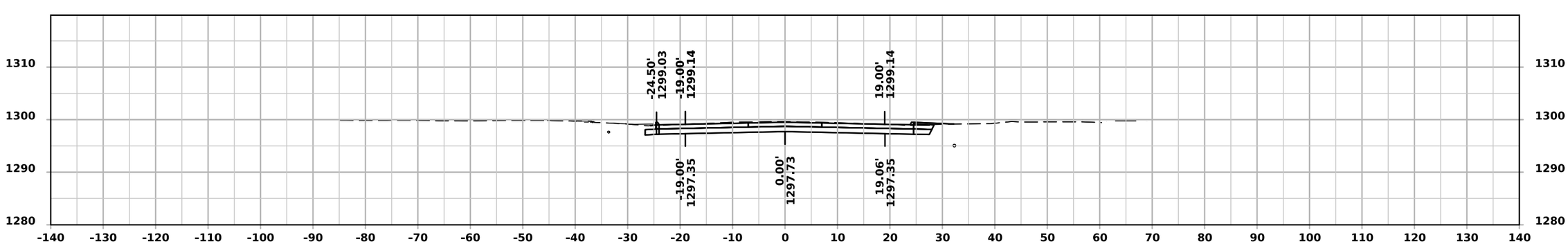
ML - IA-9



STA 2239+00.00

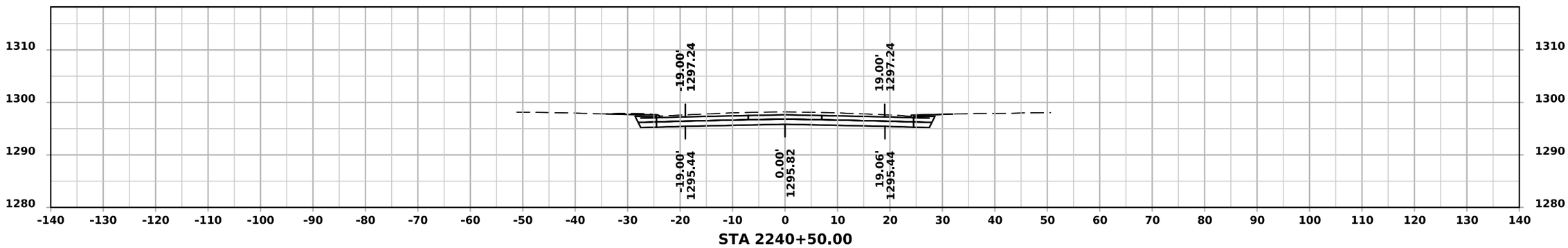


STA 2238+50.00

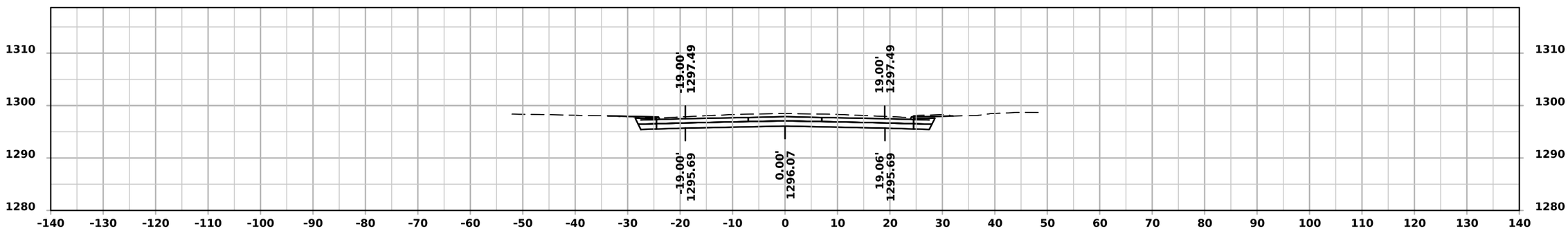


STA 2238+00.00

ML - IA-9



STA 2240+50.00



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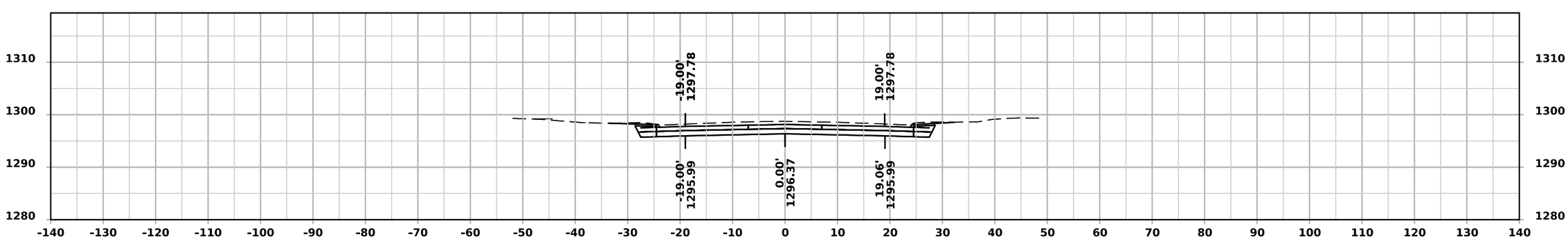
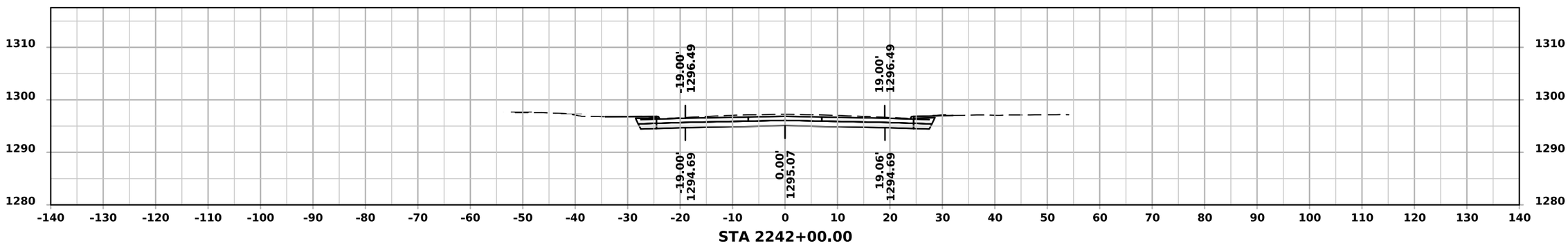
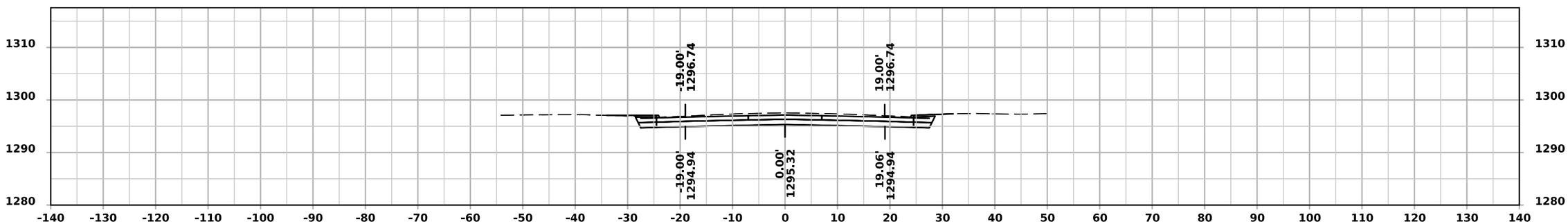


STA 2239+50.00

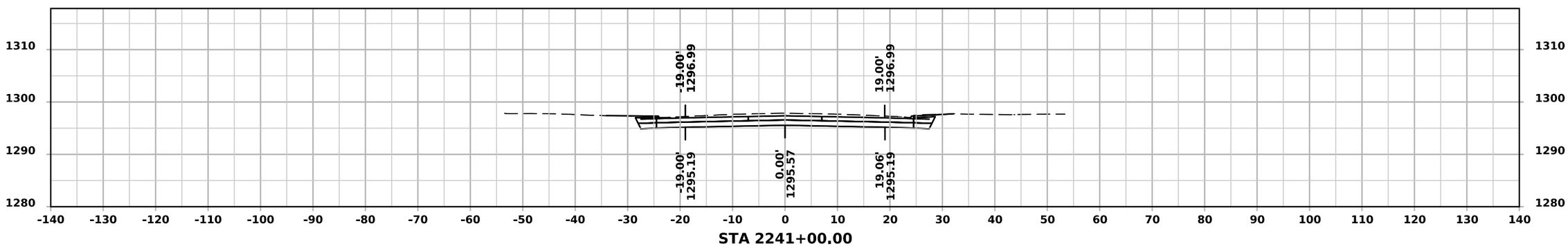
ML - IA-9



STA 2242+00.00

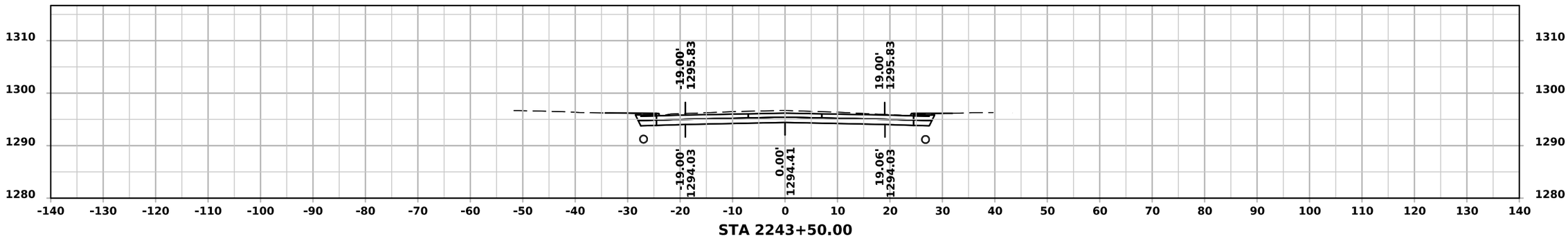


STA 2241+50.00



STA 2241+00.00

ML - IA-9



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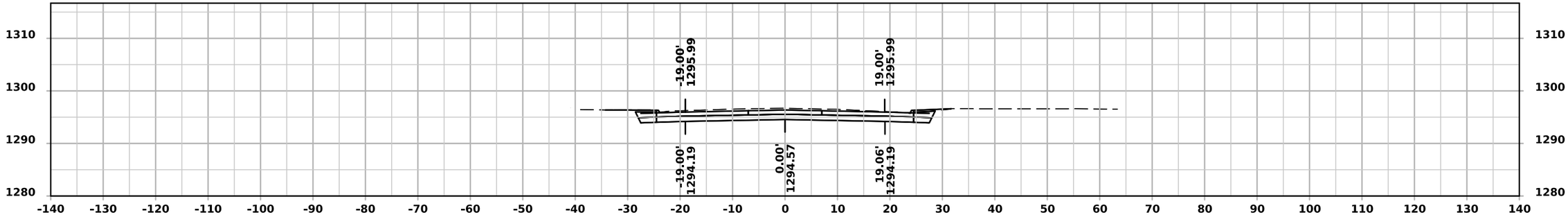

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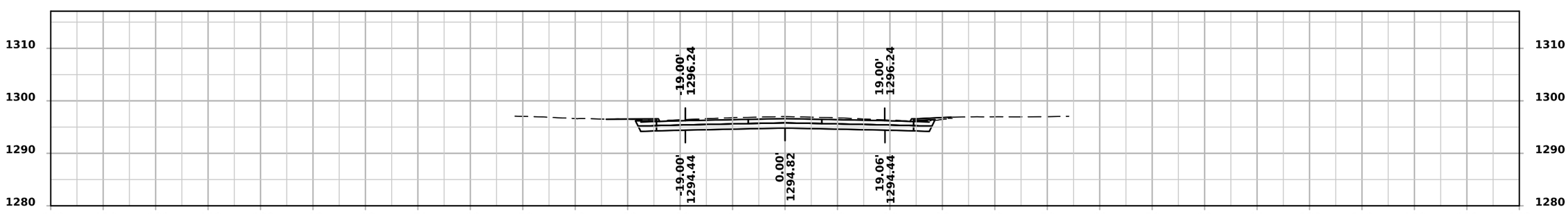

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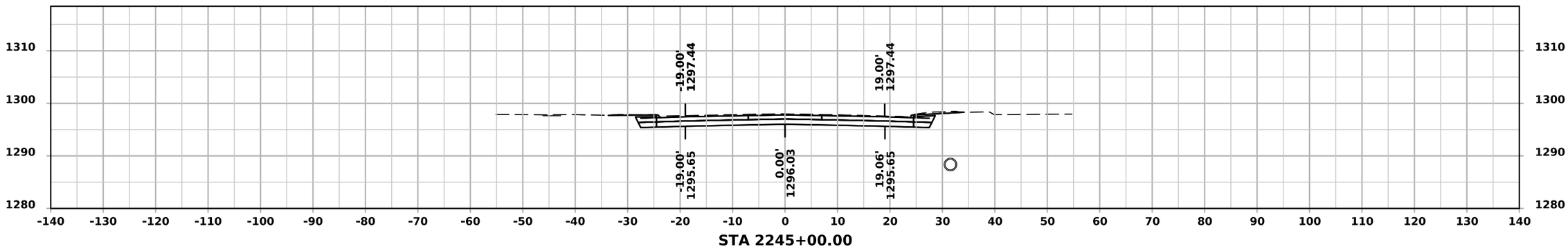
ML - IA-9



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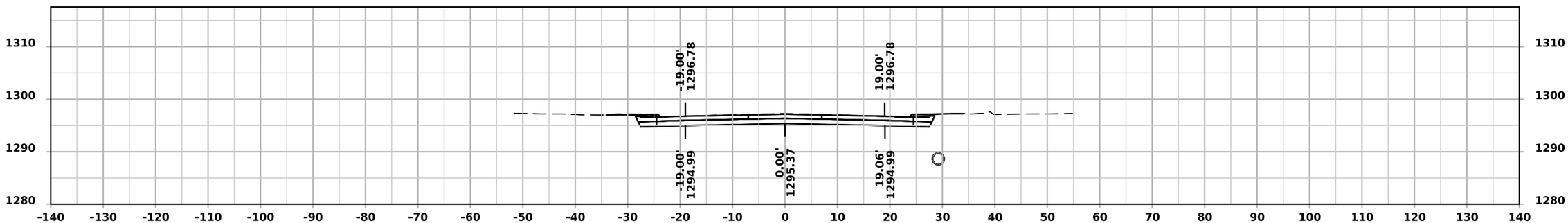
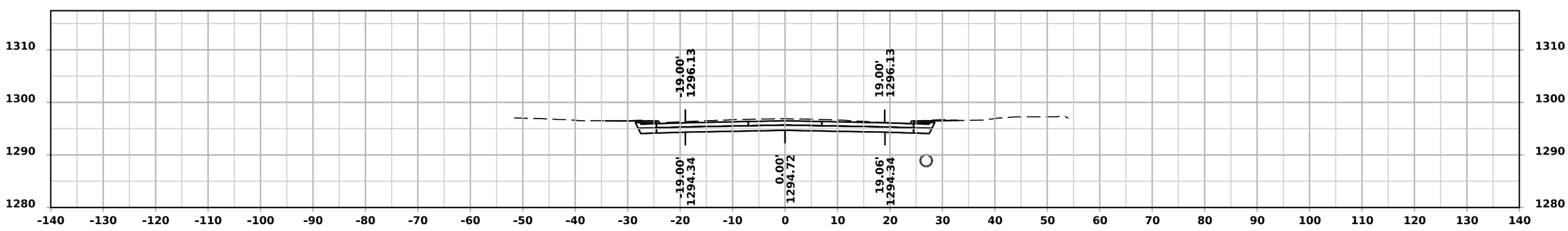


STA 2244+50.00



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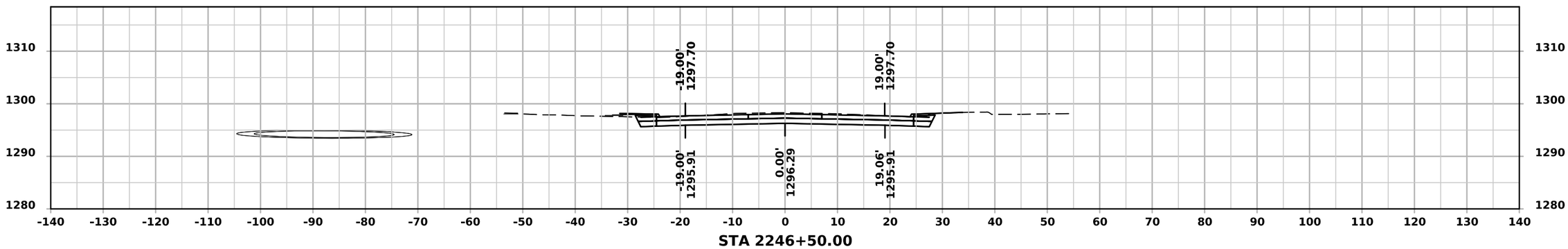
ML - IA-9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-19.00'
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19.06'
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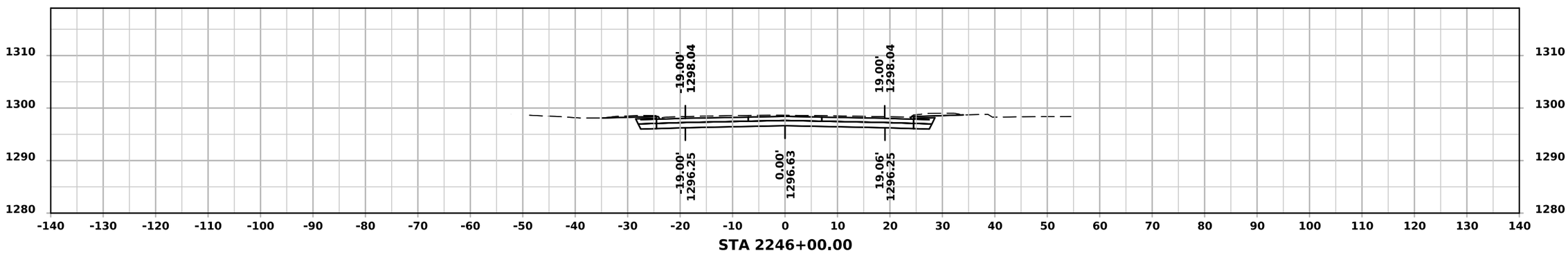
STA 2246+50.00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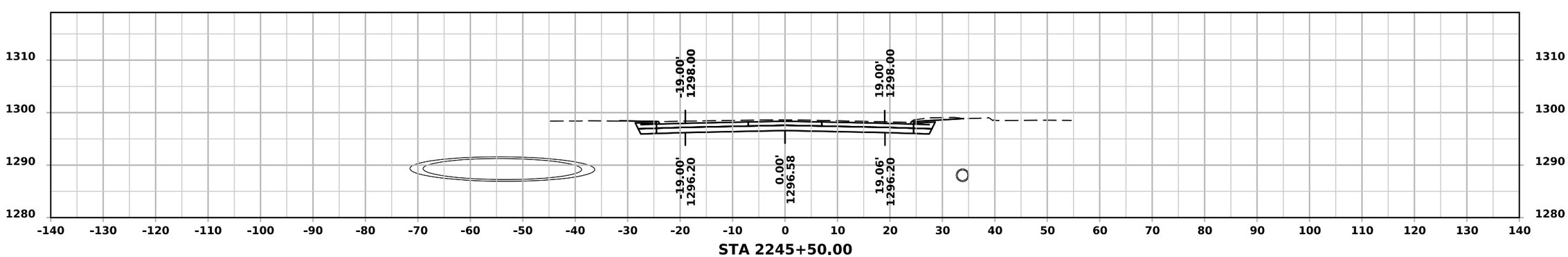
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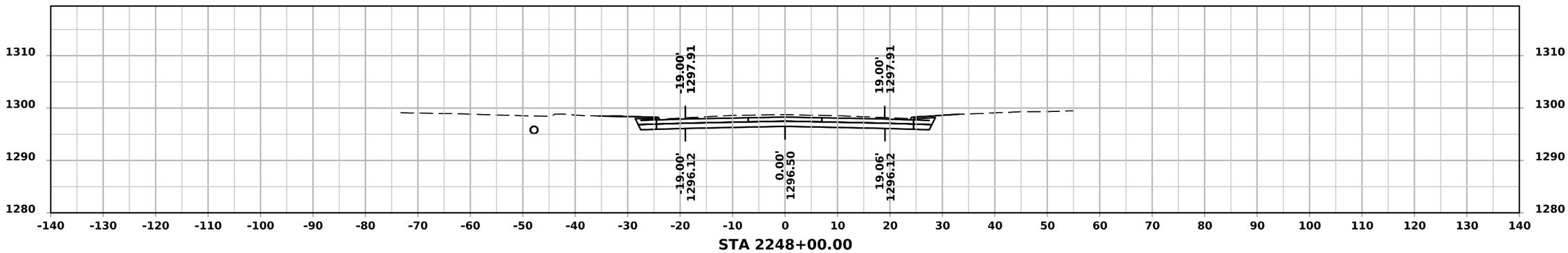
ML - IA-9



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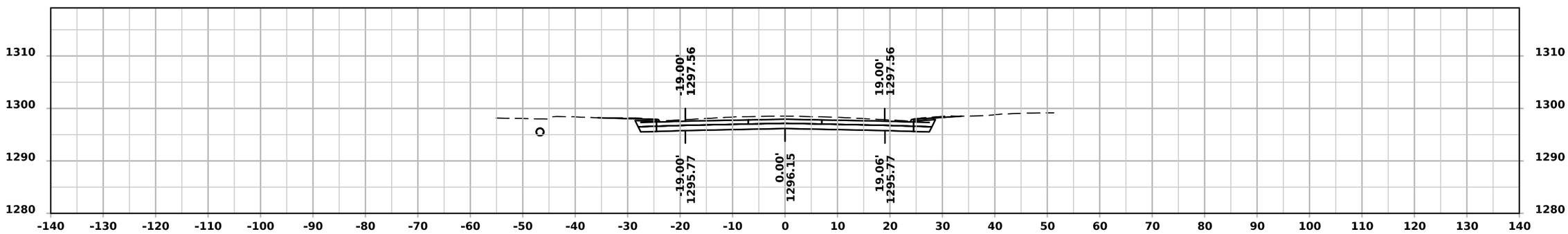

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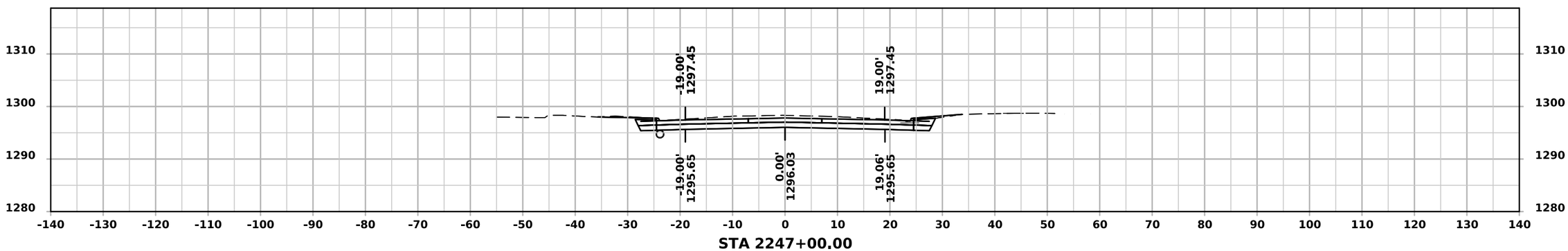

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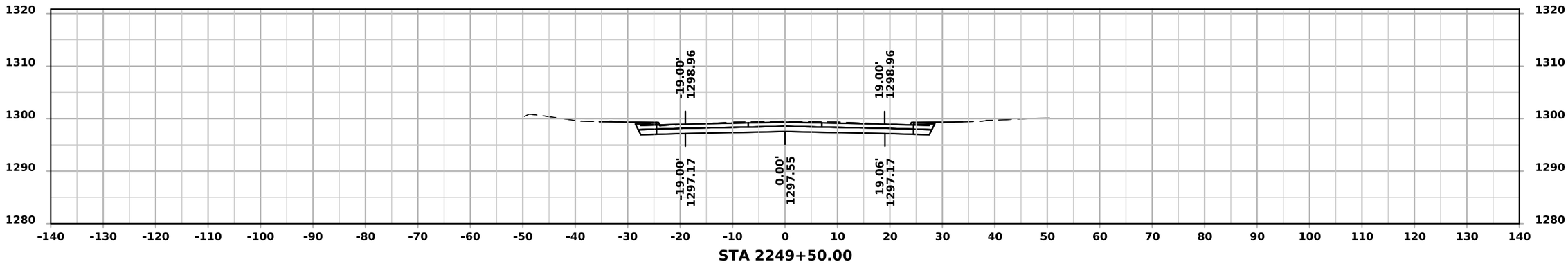
ML - IA-9



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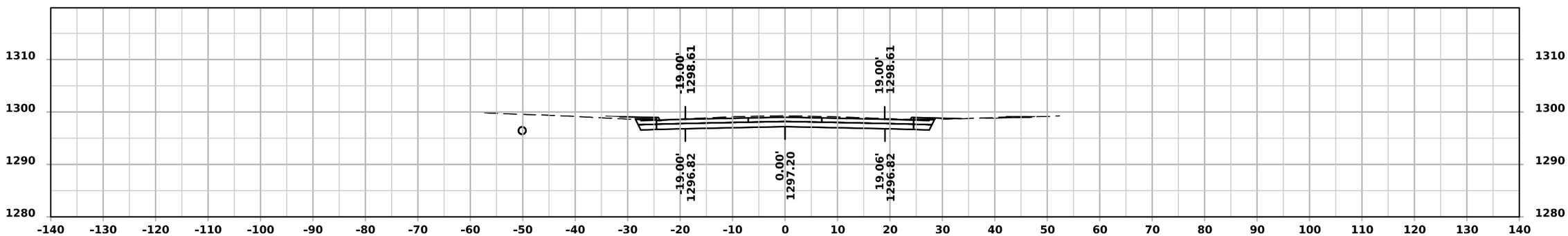

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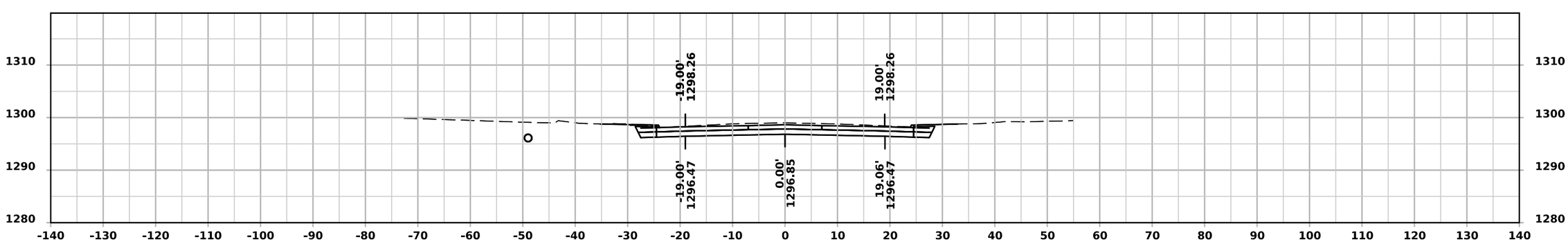

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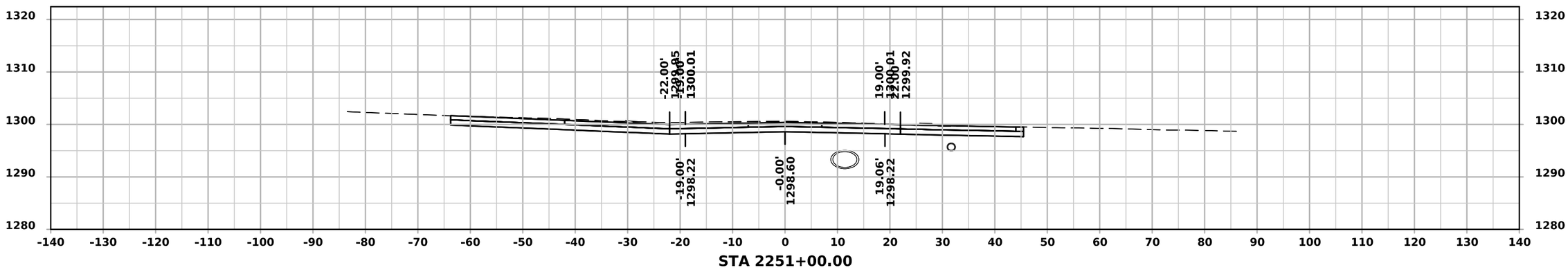
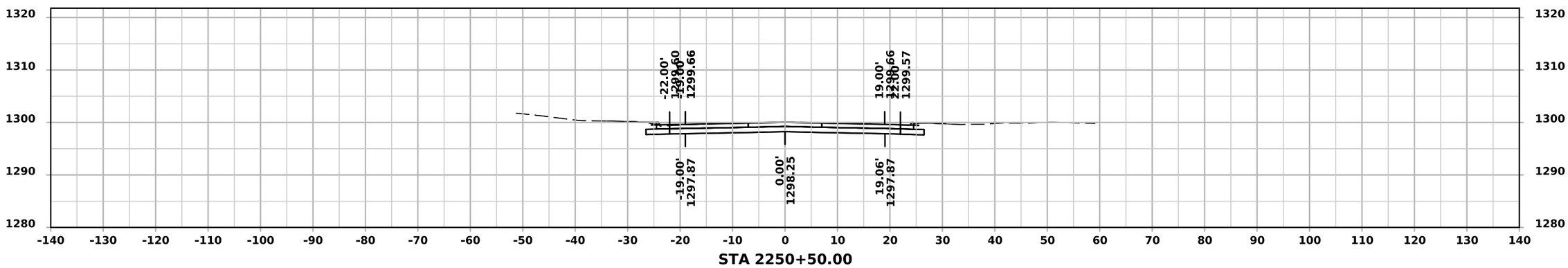
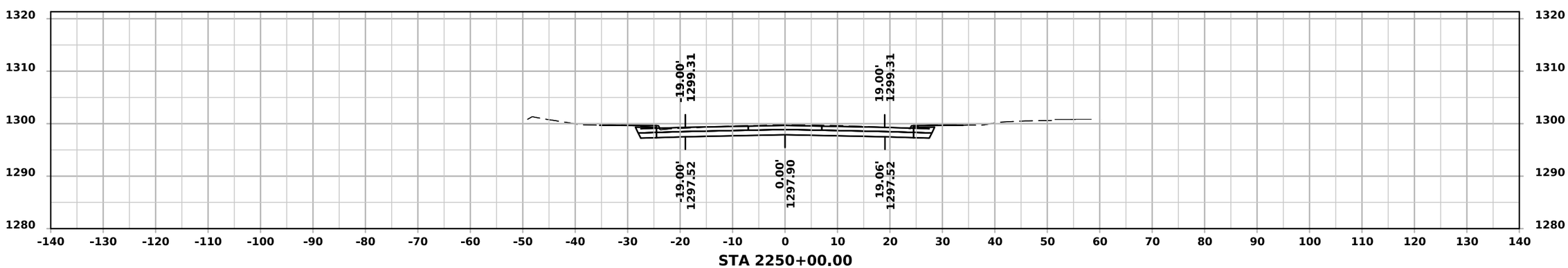
ML - IA-9

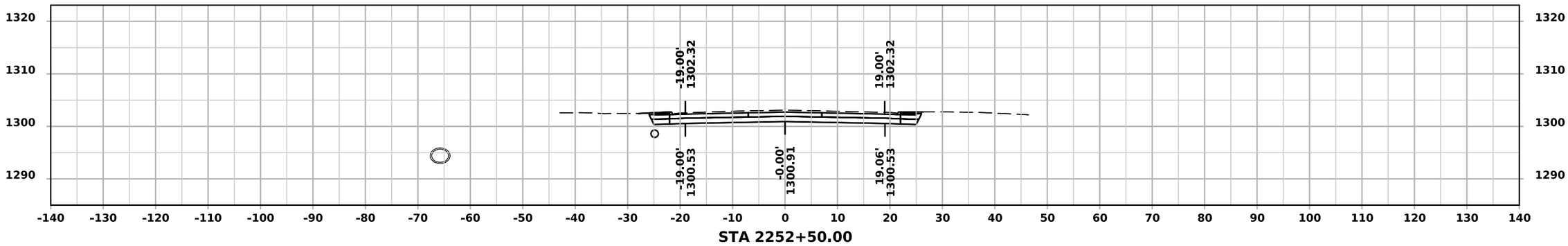






FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.25

ML - IA-9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-19.00'
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1300.91
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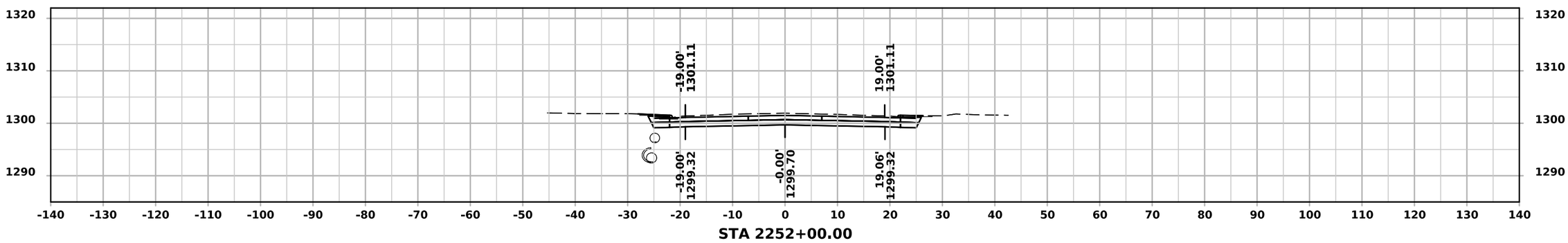
STA 2252+50.00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1301.11
-19.00'
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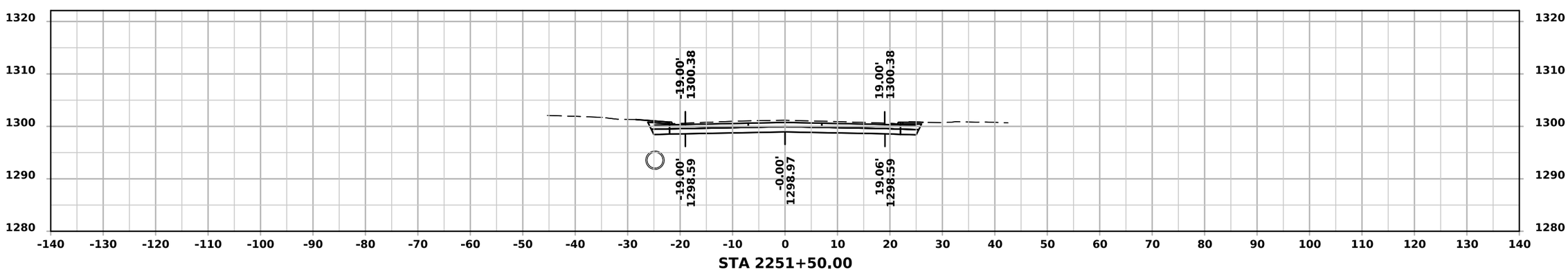
-0.00'
1299.70
19.06'
1299.32
STA 2252+00.00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19.00'
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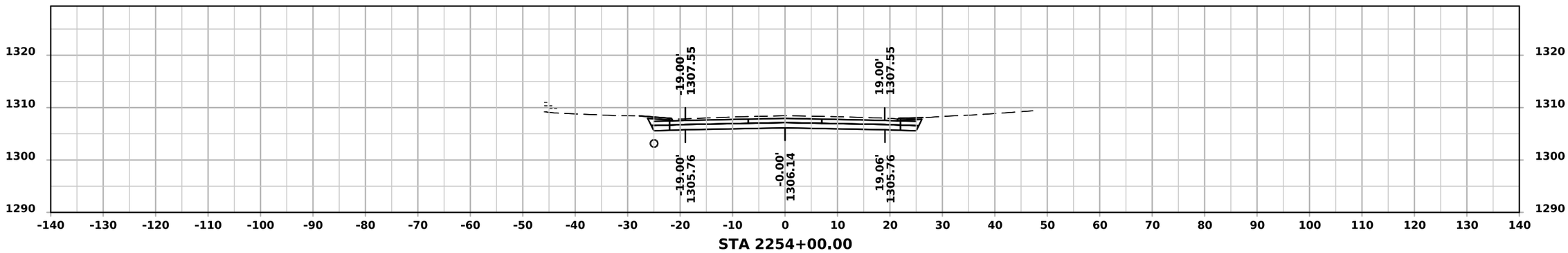
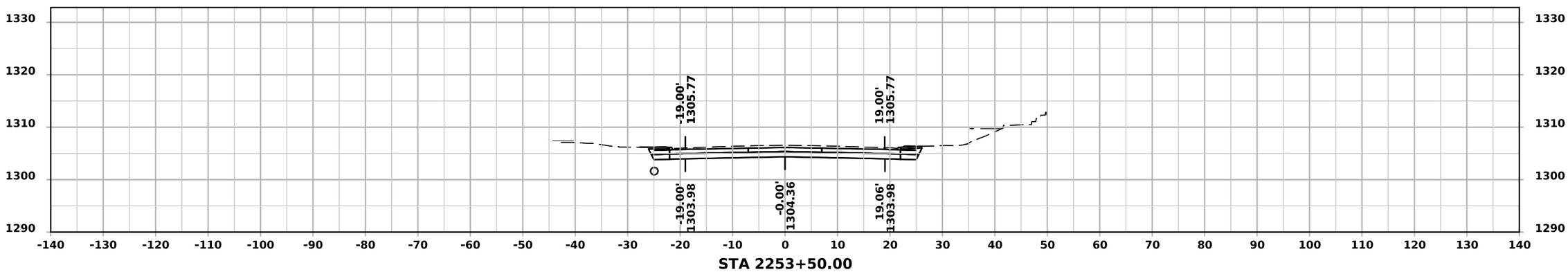
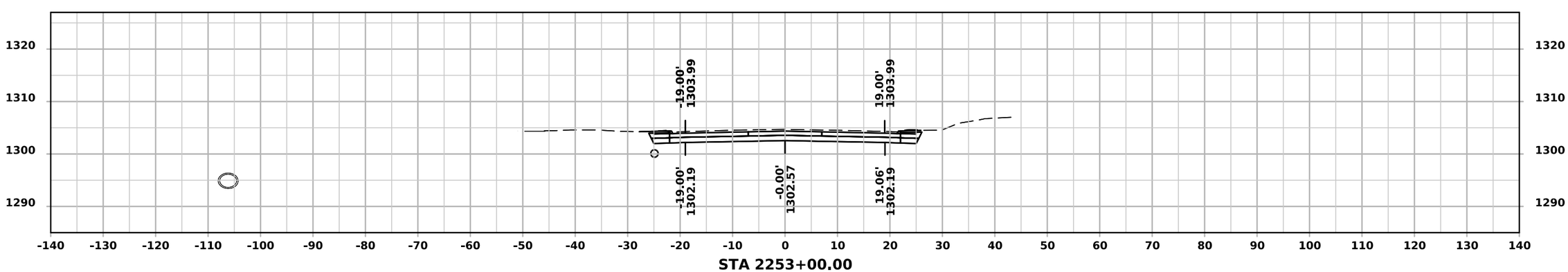
STA 2251+50.00

ML - IA-9

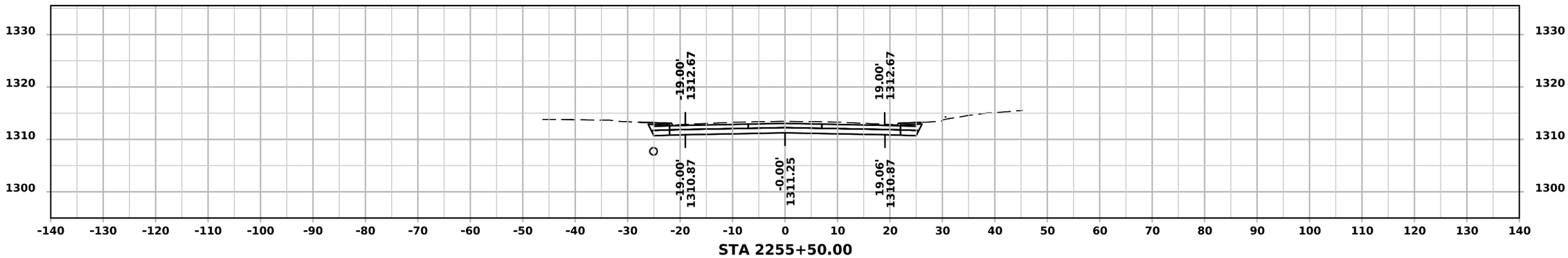






FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER W.27

ML - IA-9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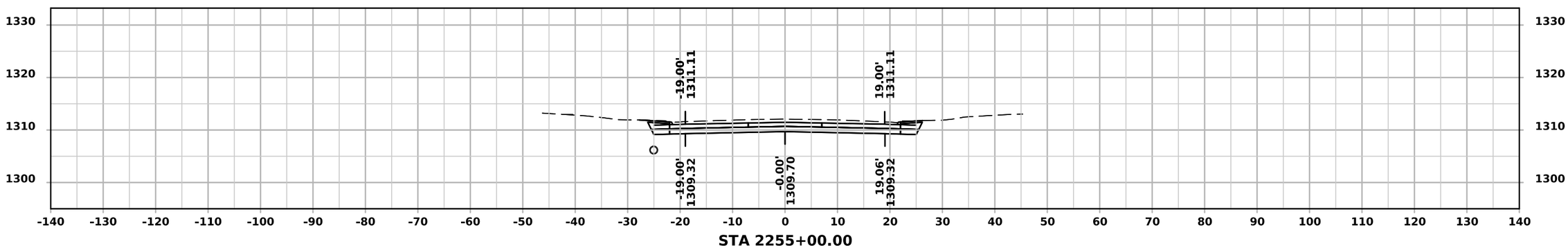
STA 2255+50.00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19.06'
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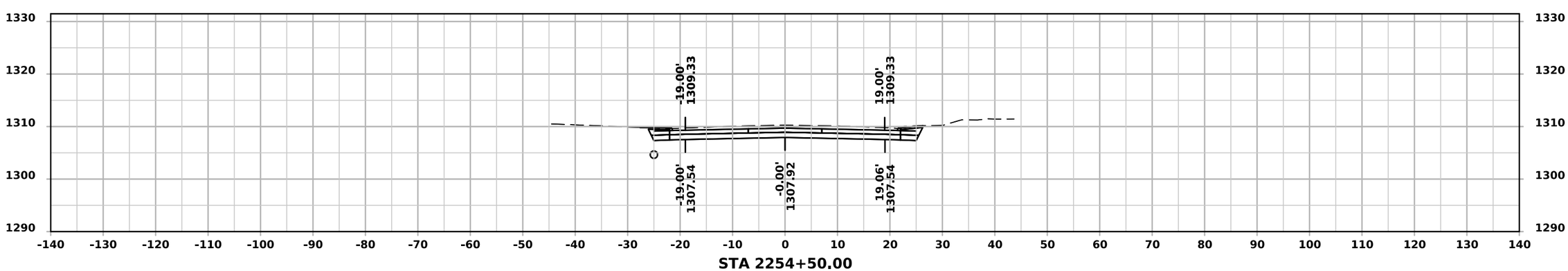
STA 2255+00.00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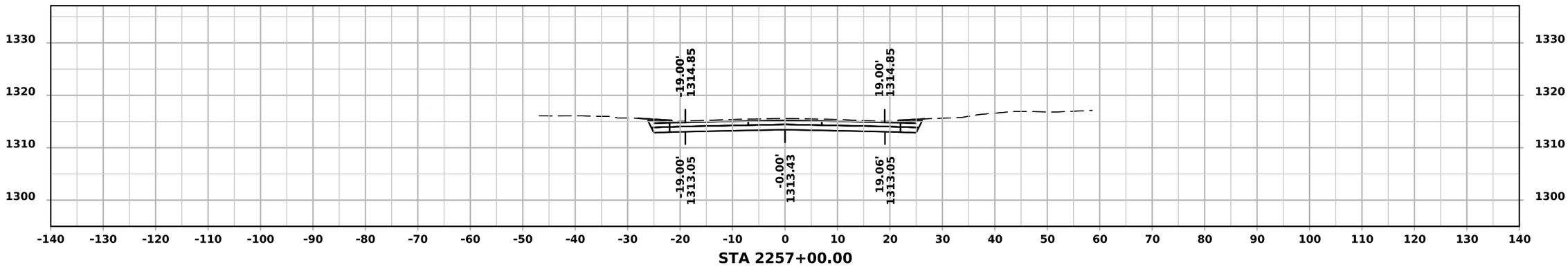
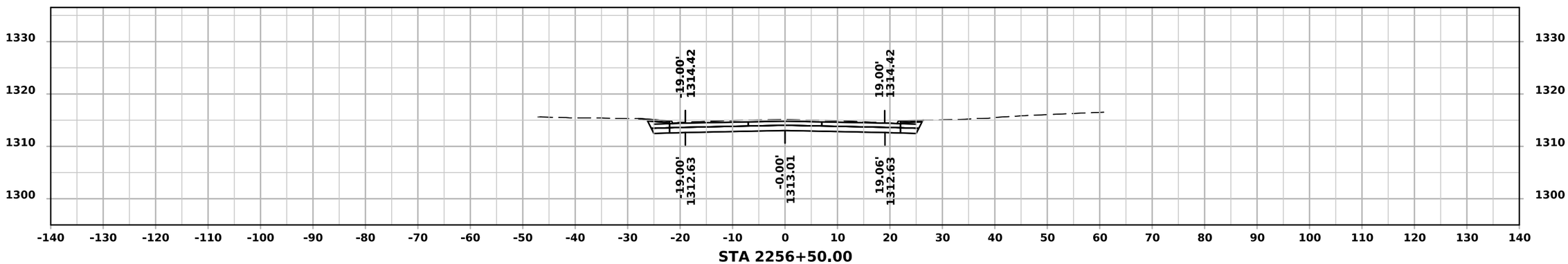
STA 2254+50.00

ML - IA-9



STA 2257+00.00



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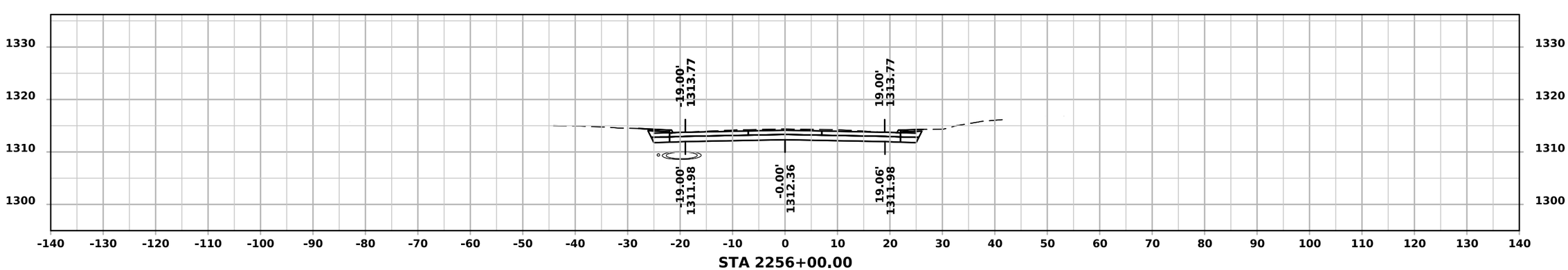
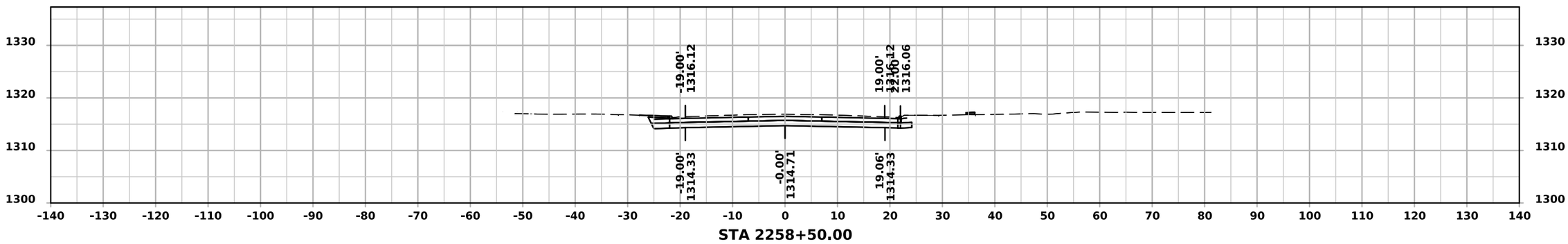
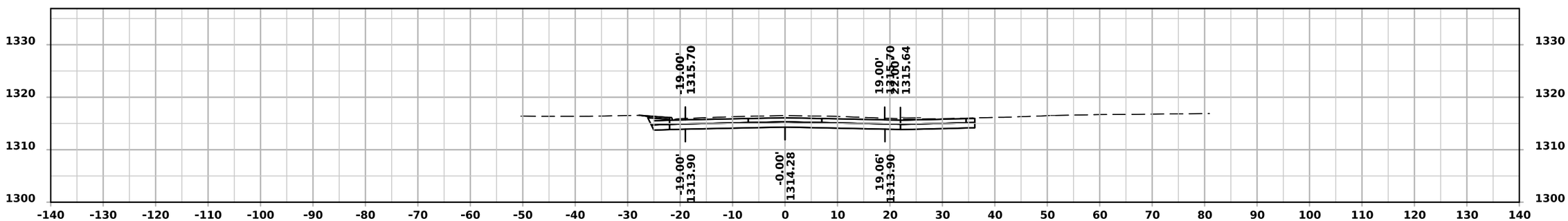


STA 2256+00.00

ML - IA-9



STA 2258+50.00



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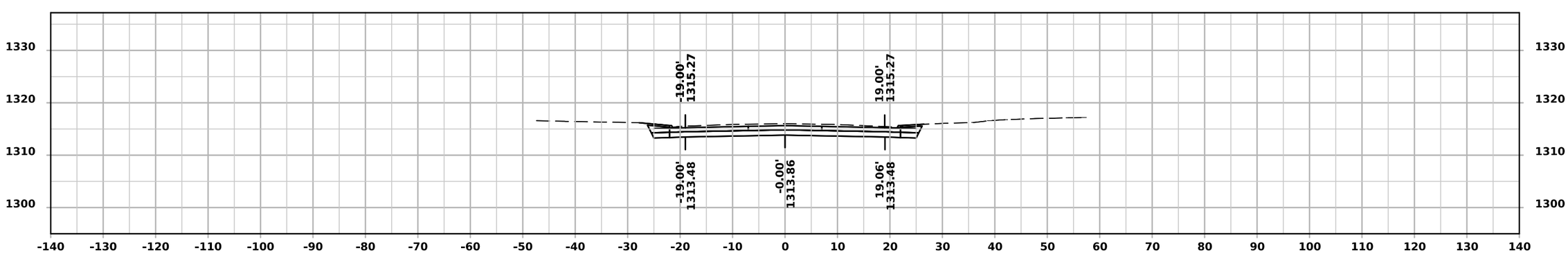
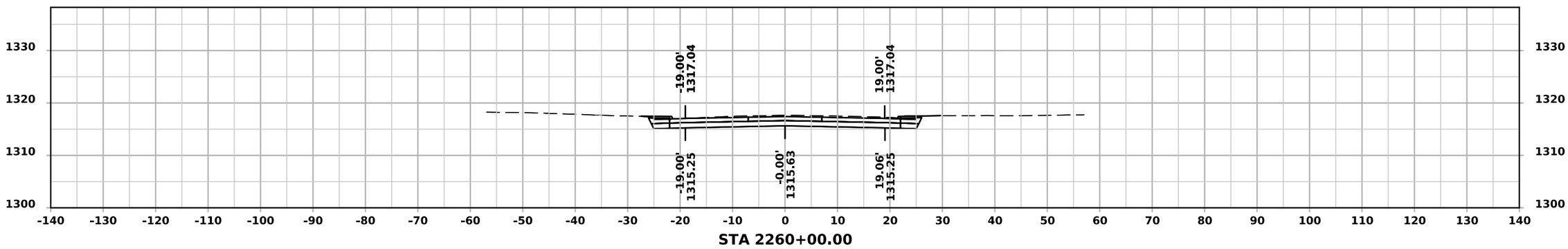
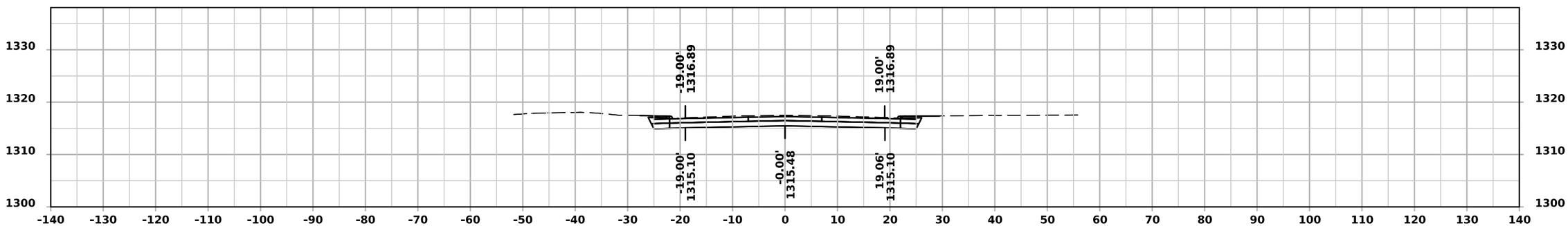


STA 2257+50.00

ML - IA-9



STA 2260+00.00



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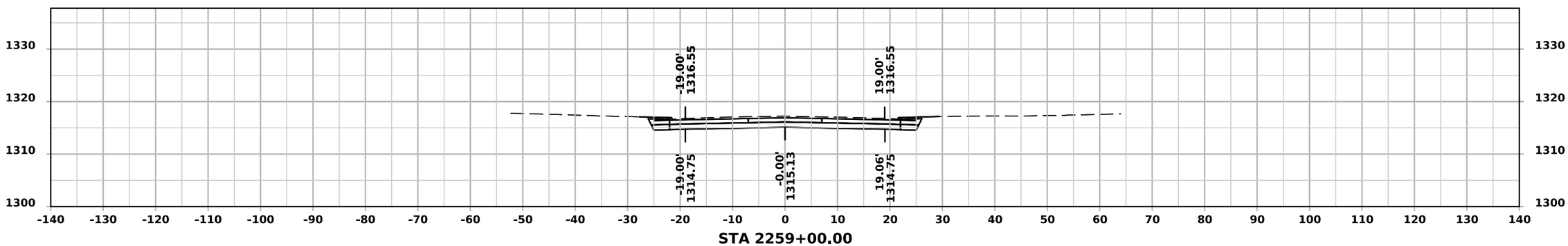

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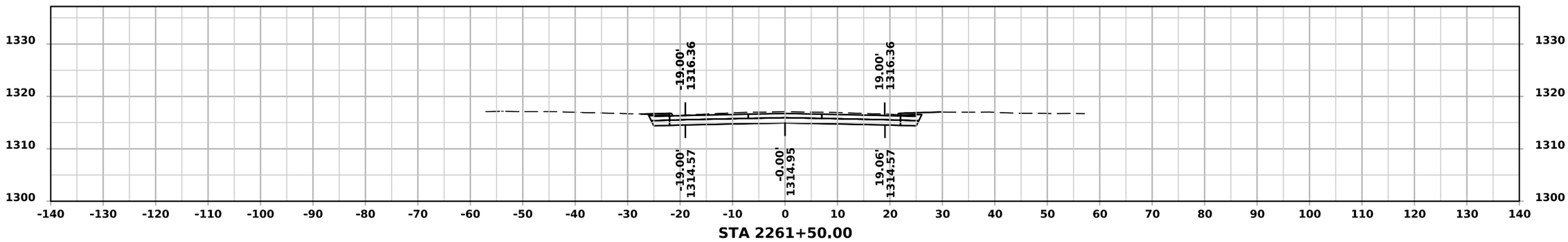
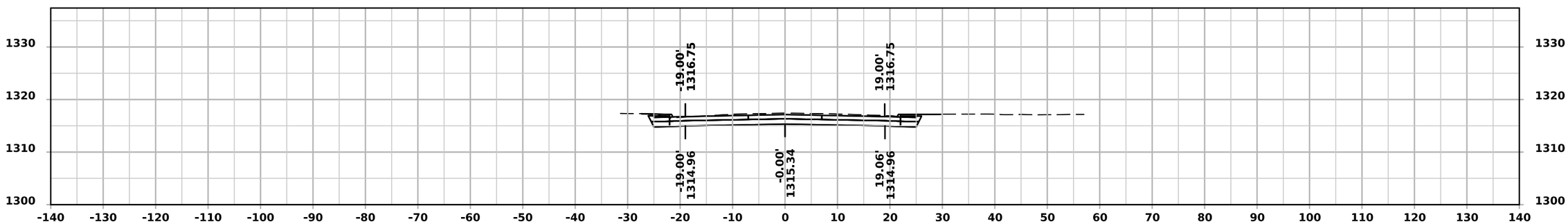
ML - IA-9



STA 2261+50.00



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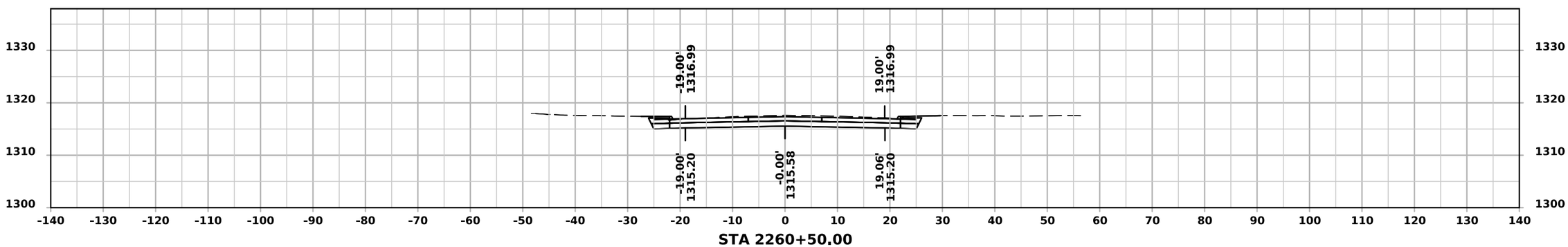

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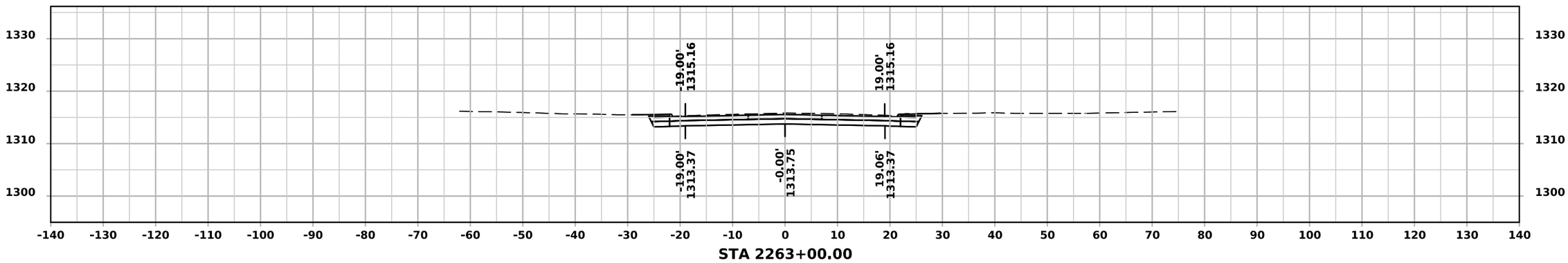
ML - IA-9



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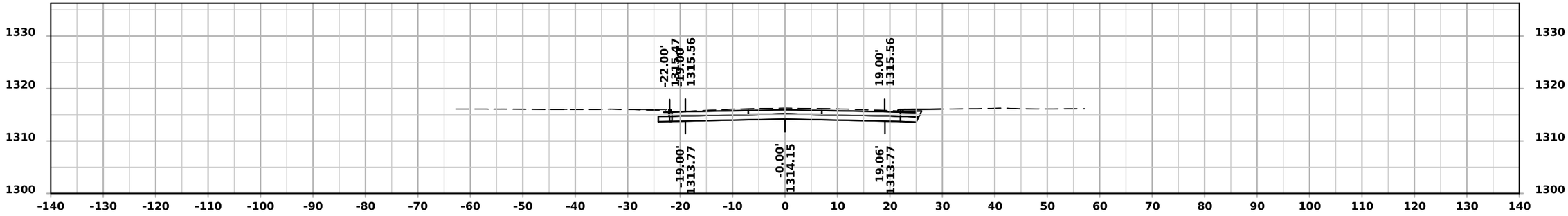

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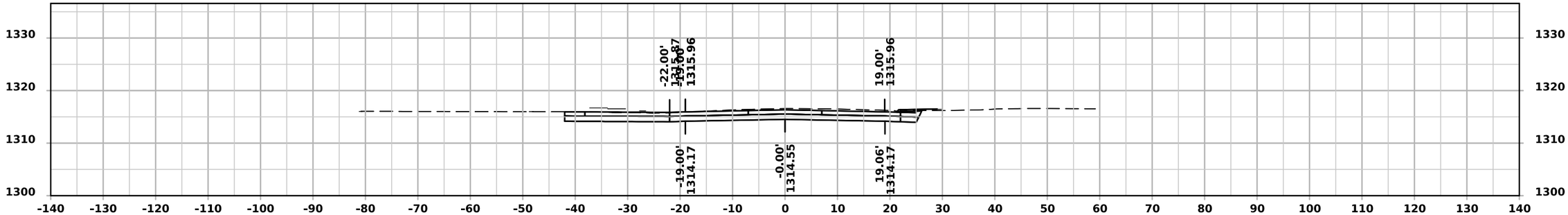
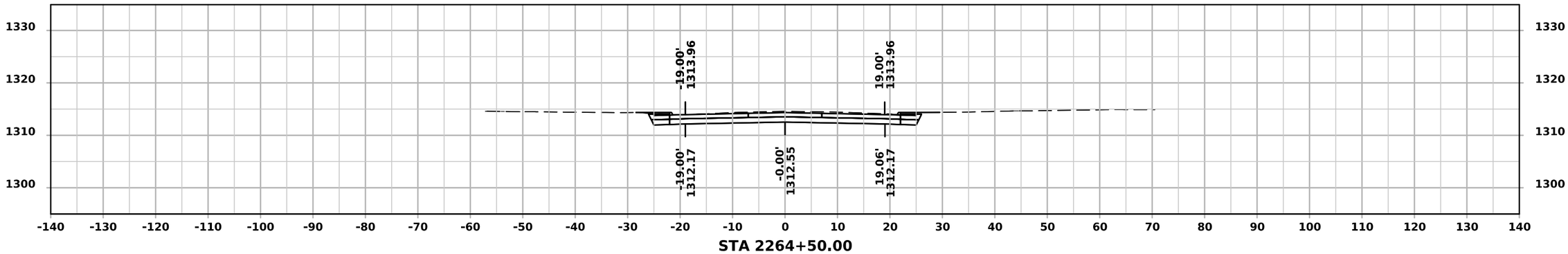


STA 2262+00.00

ML - IA-9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-19.00'
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19.00'
1313.96
-19.00'
1312.17
-0.00'
1312.55
19.06'
1312.17
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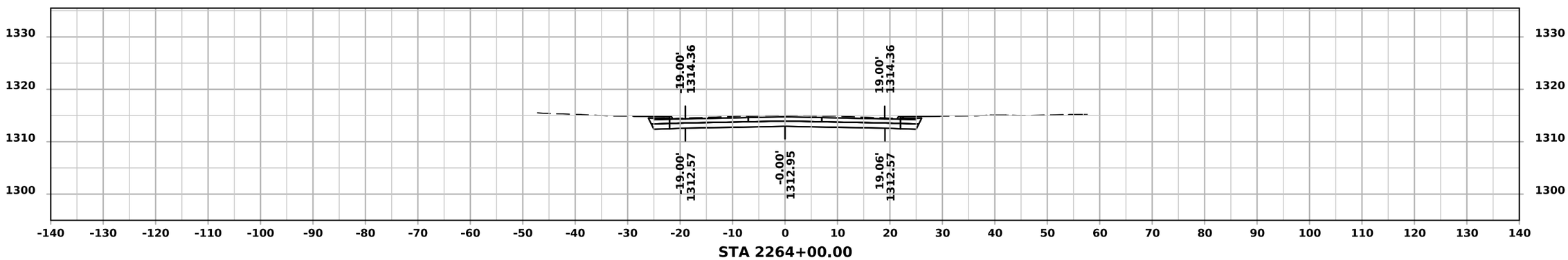
STA 2264+50.00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-19.00'
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19.00'
1314.36
-19.00'
1312.57
-0.00'
1312.95
19.06'
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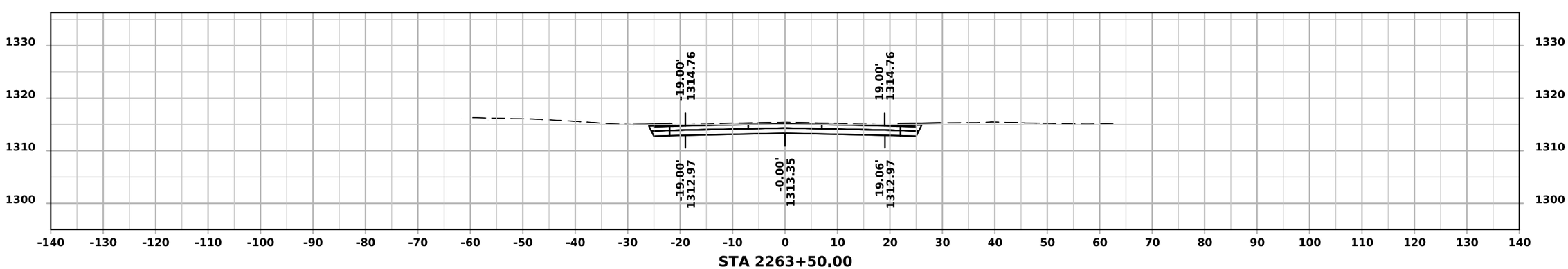
-140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140
STA 2264+00.00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19.00'
1314.76
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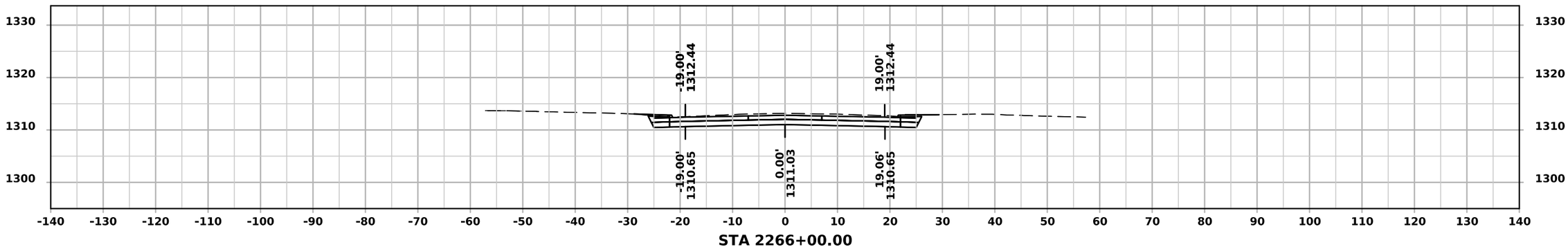
1312.97
-0.00'
1313.35
19.06'
1312.97
-140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140
STA 2263+50.00

ML - IA-9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1300
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0.00'
1311.03
19.06'
1310.65
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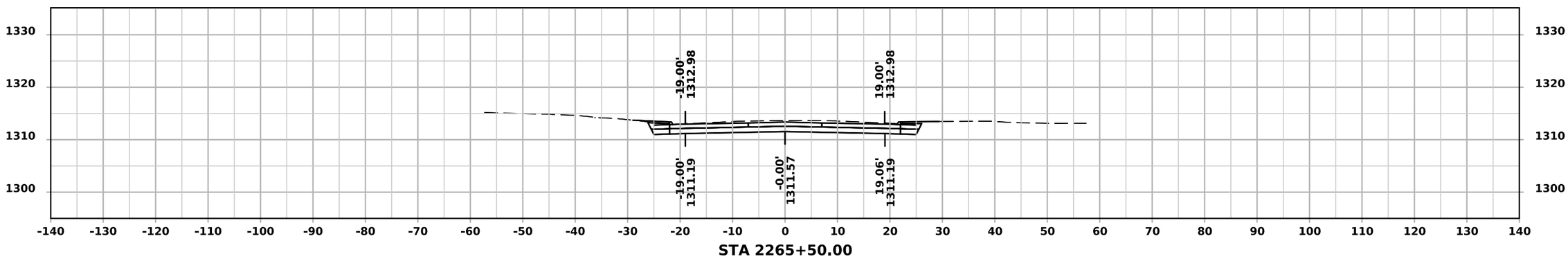
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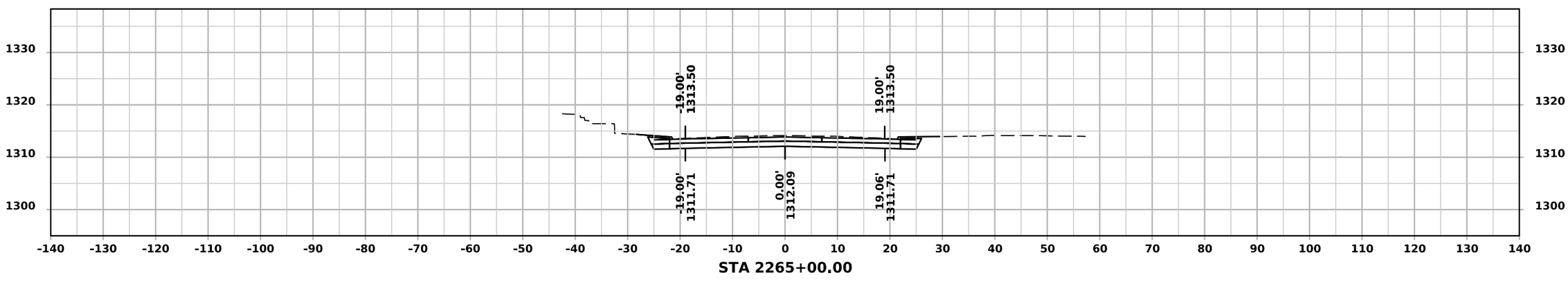
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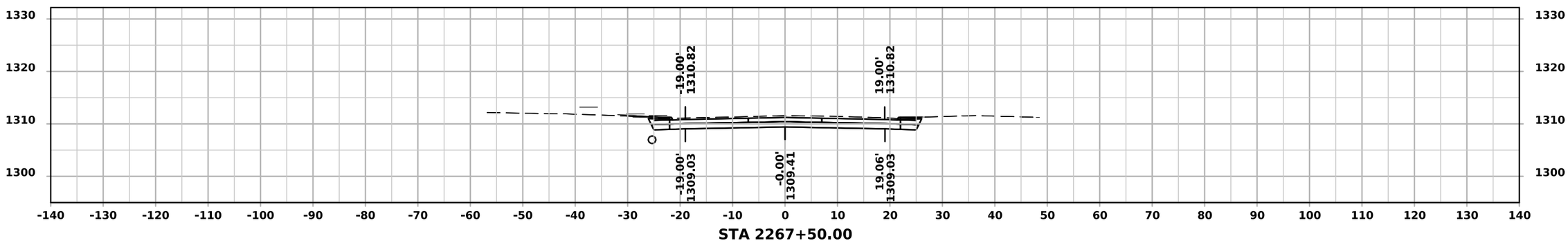

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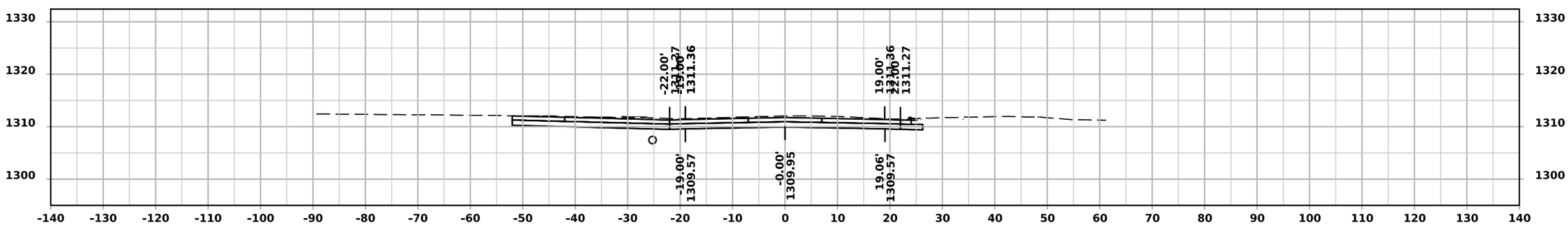

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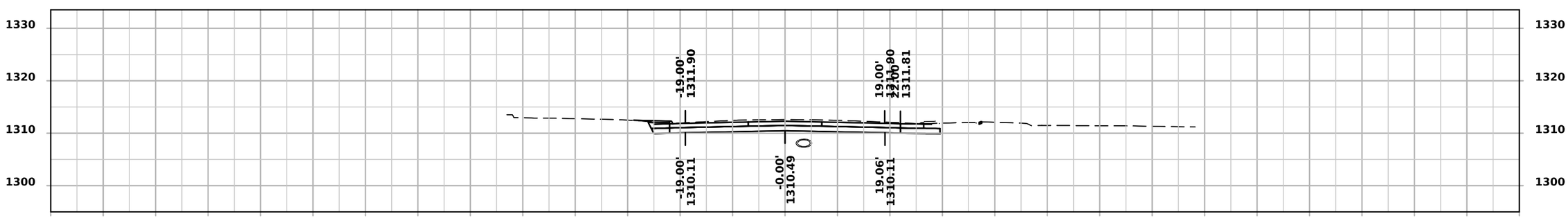

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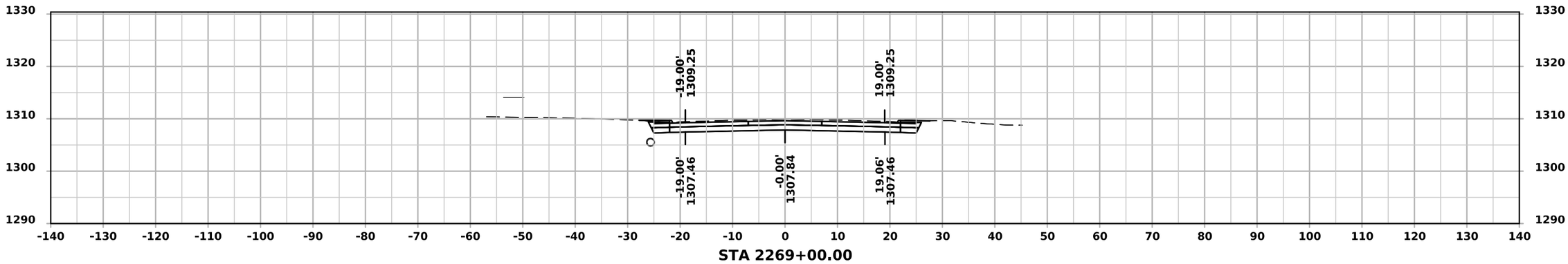

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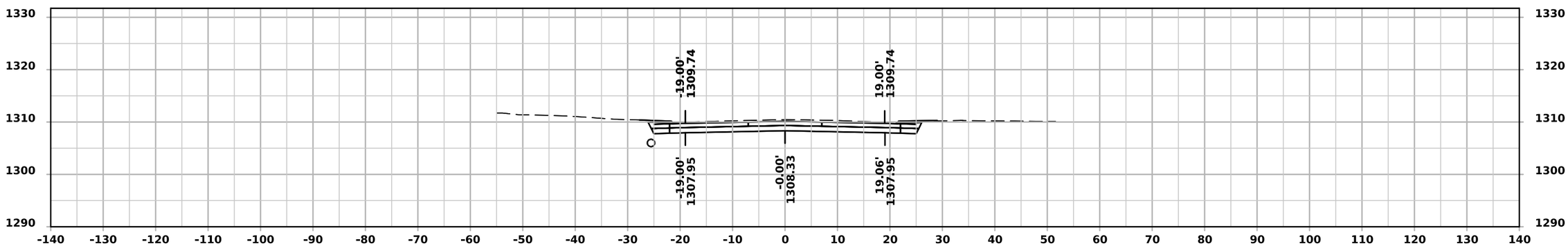

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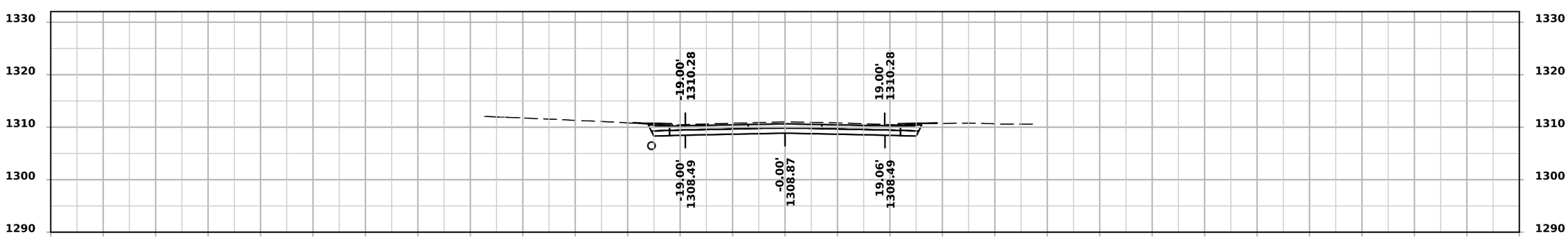

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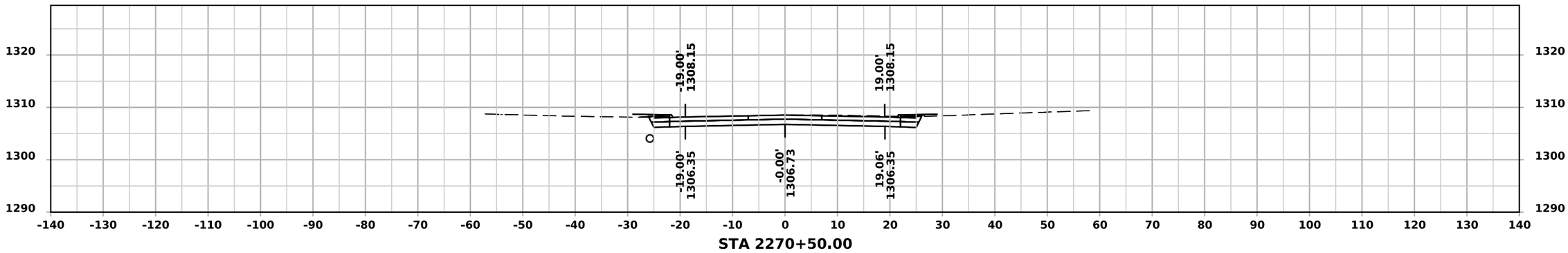

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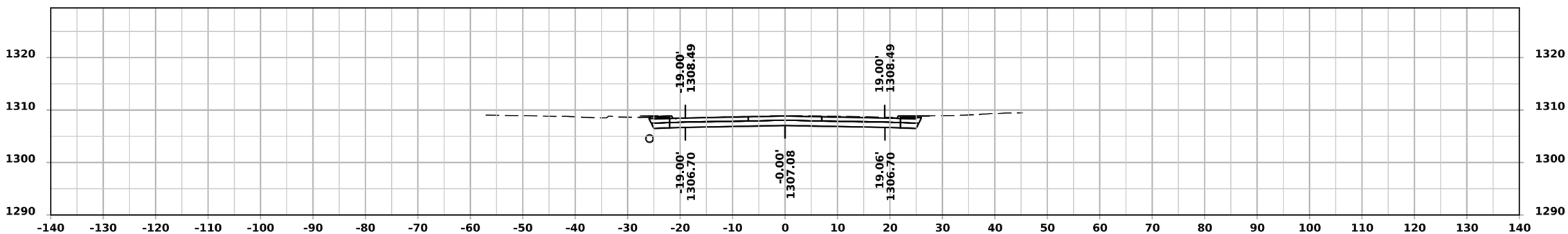

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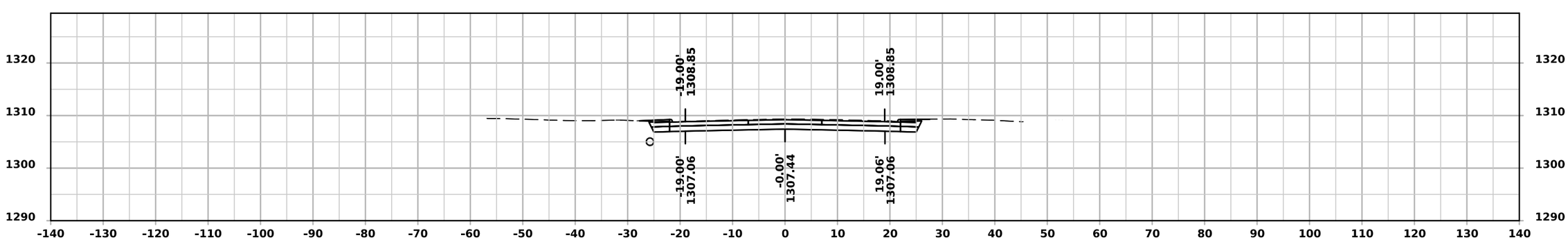

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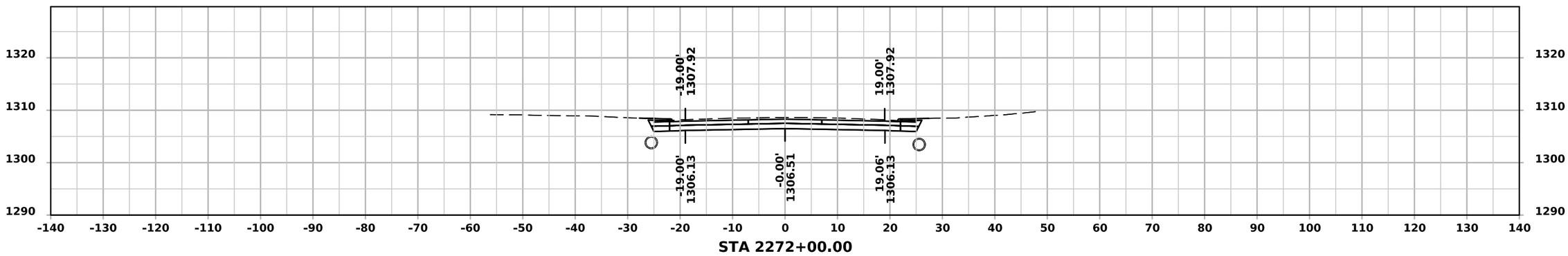

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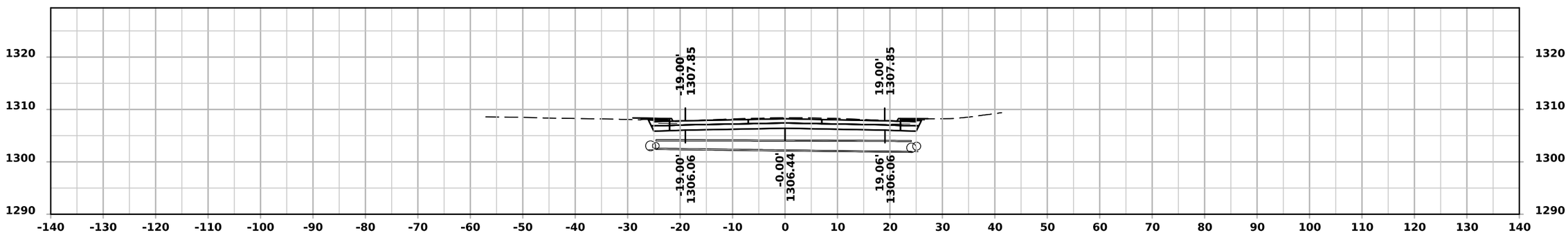

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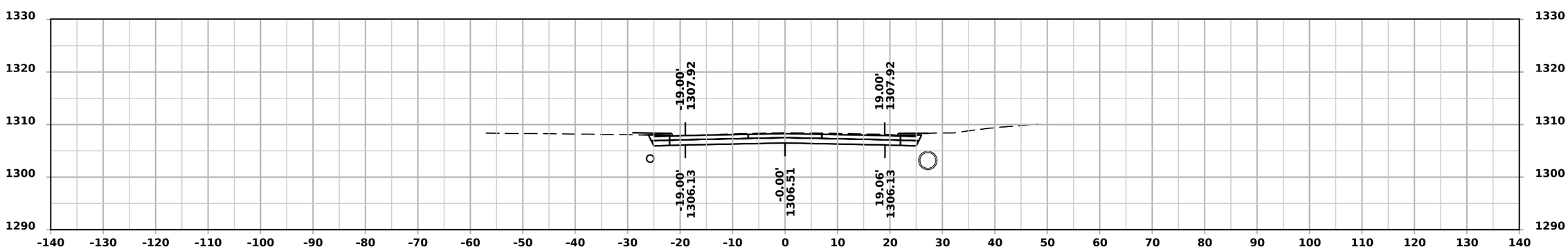

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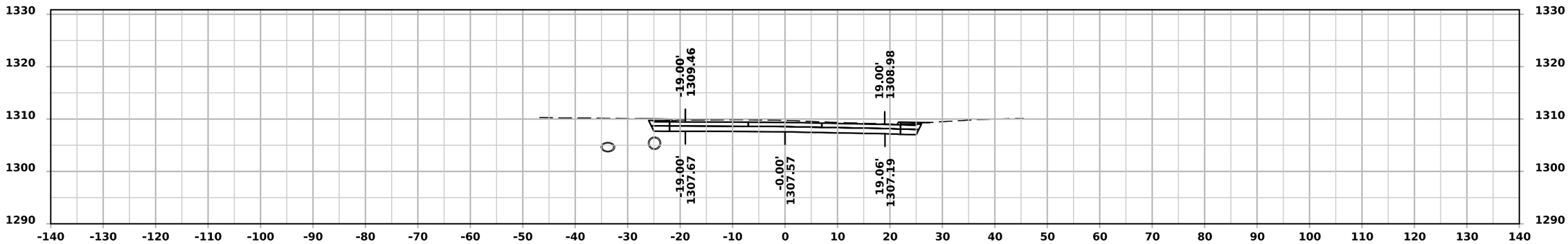

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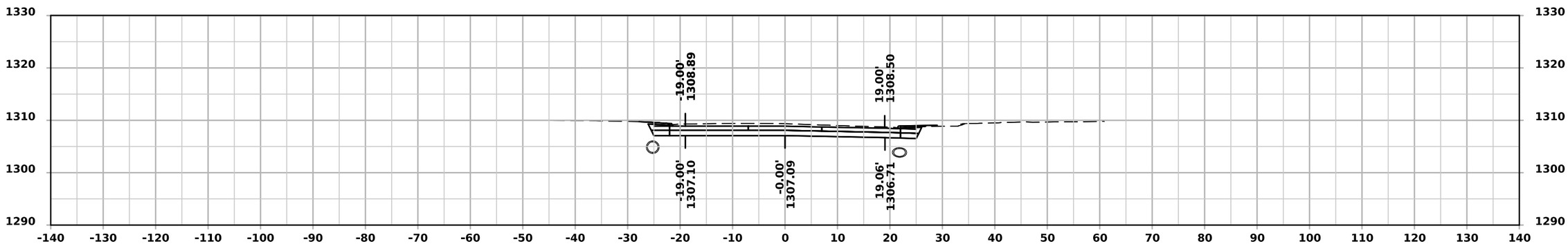

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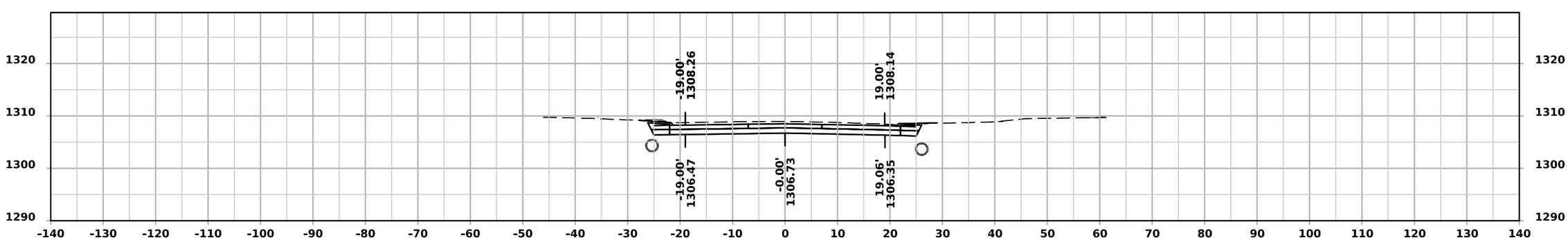

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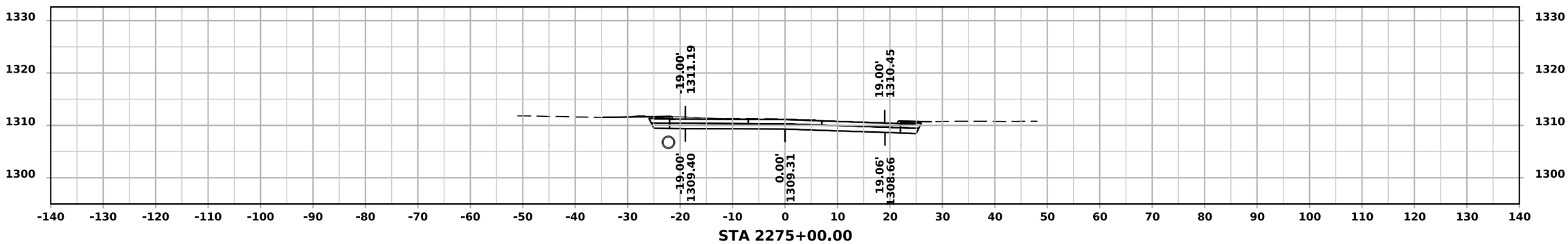

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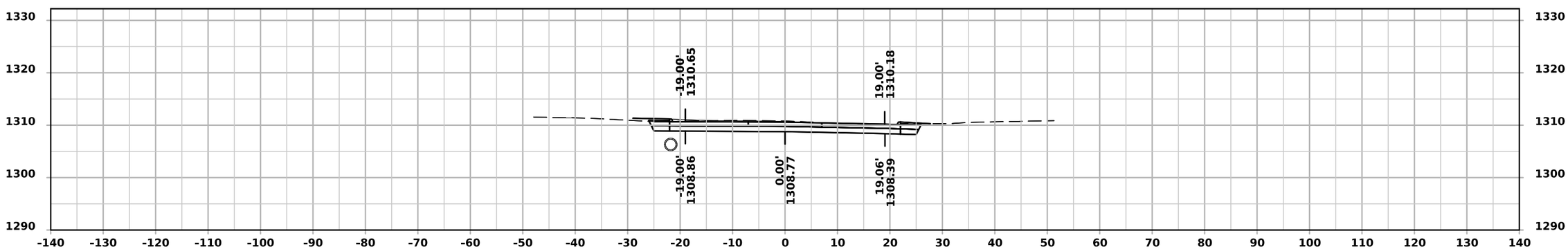

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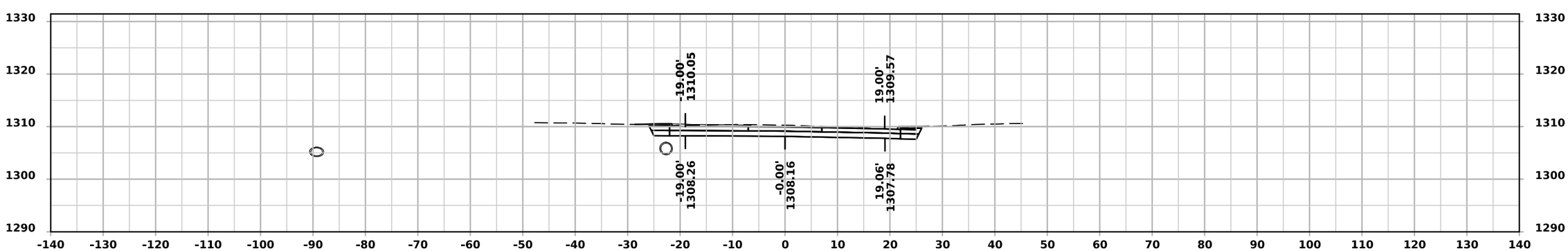

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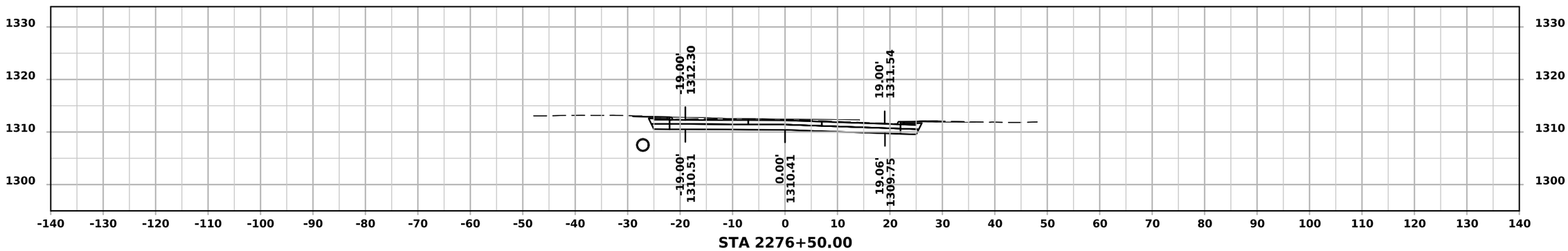
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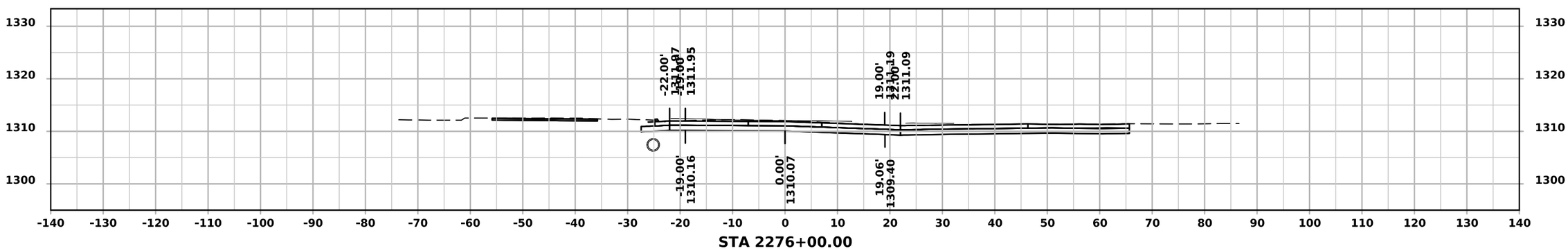
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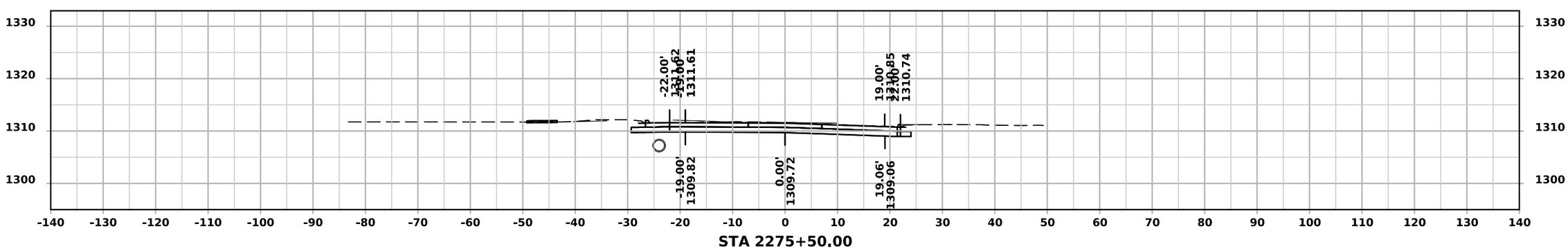
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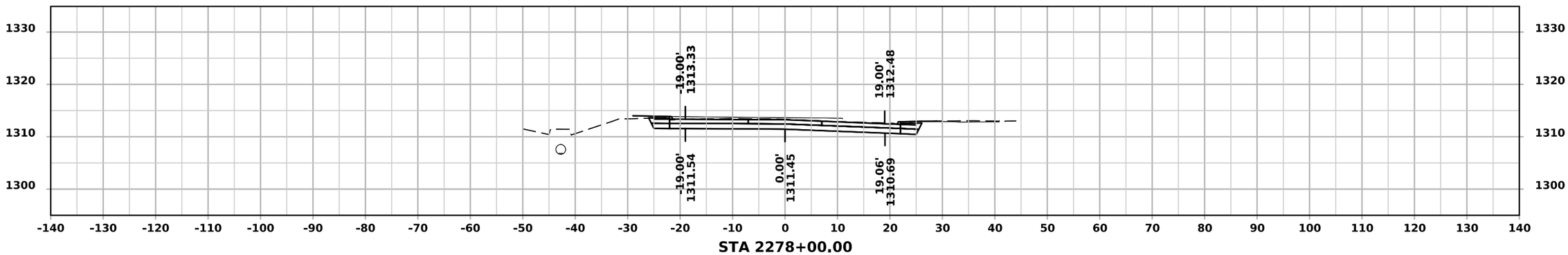

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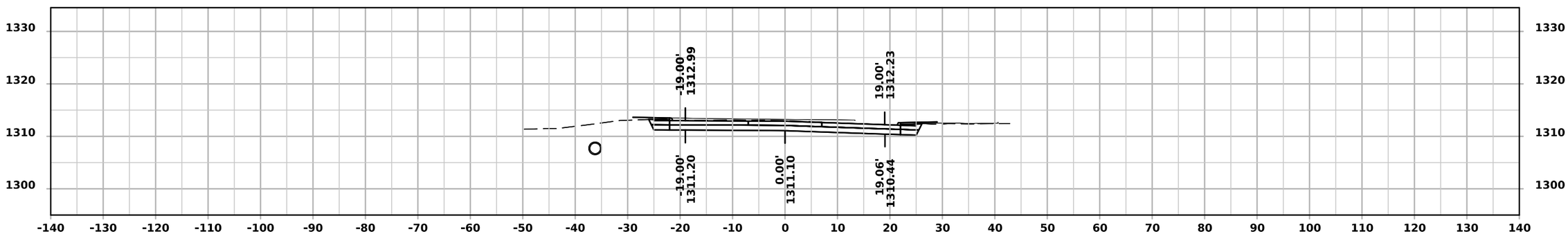

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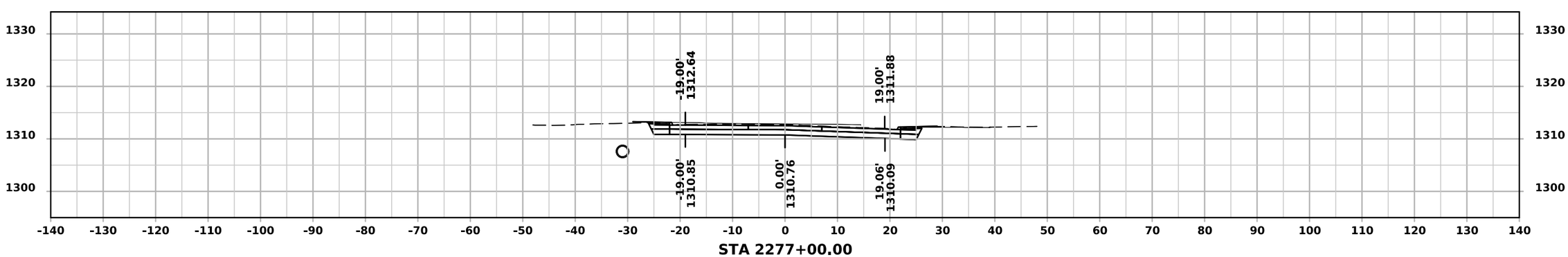

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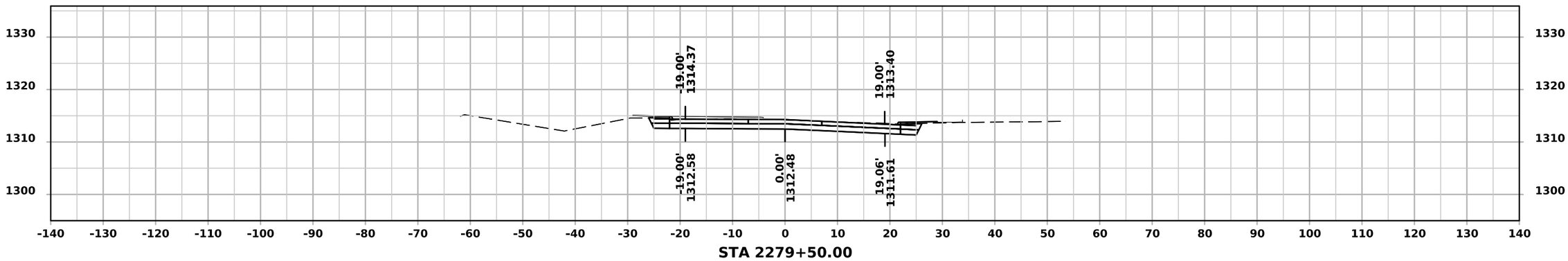

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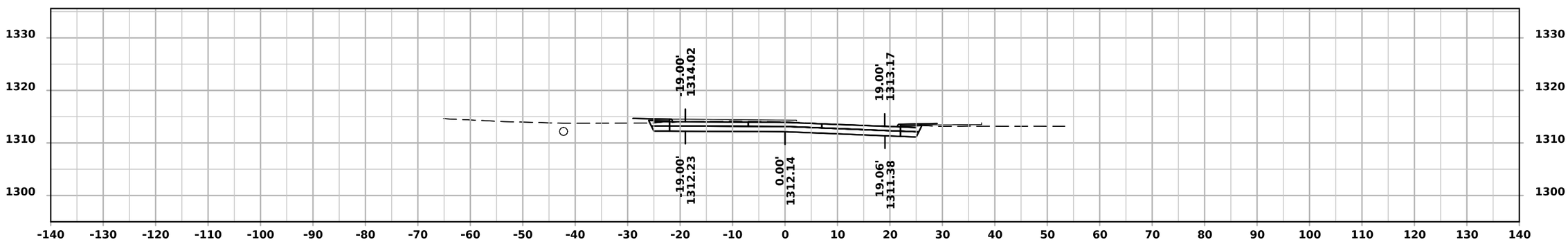

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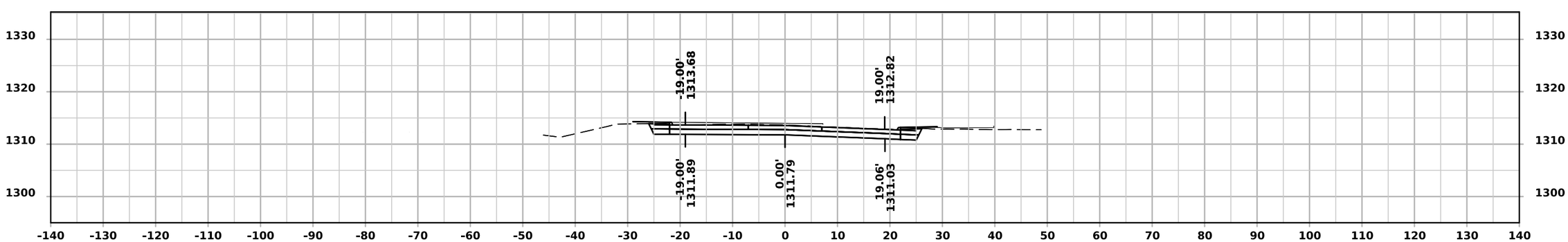

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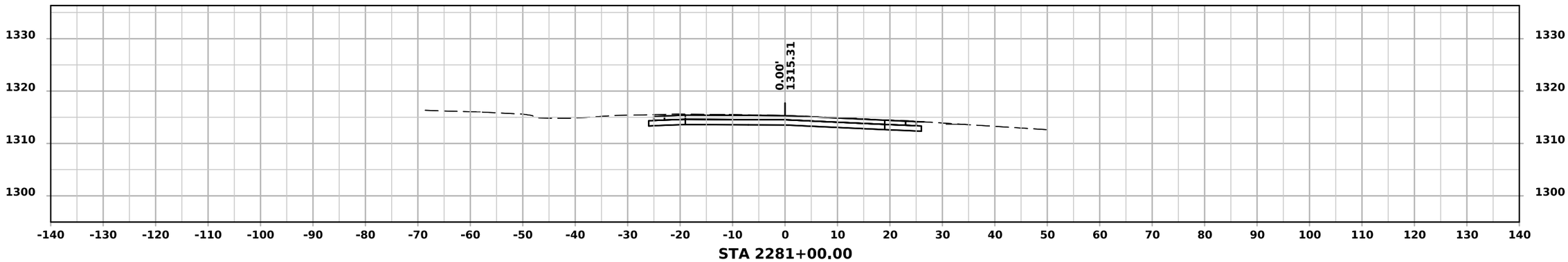
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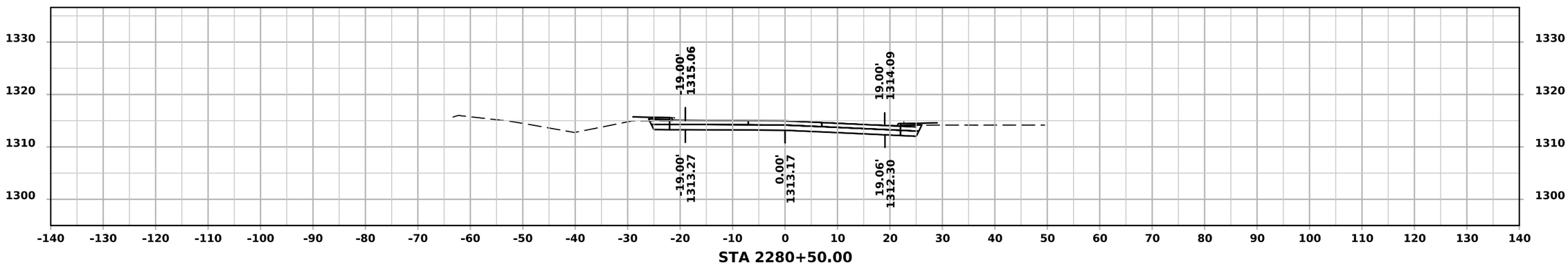
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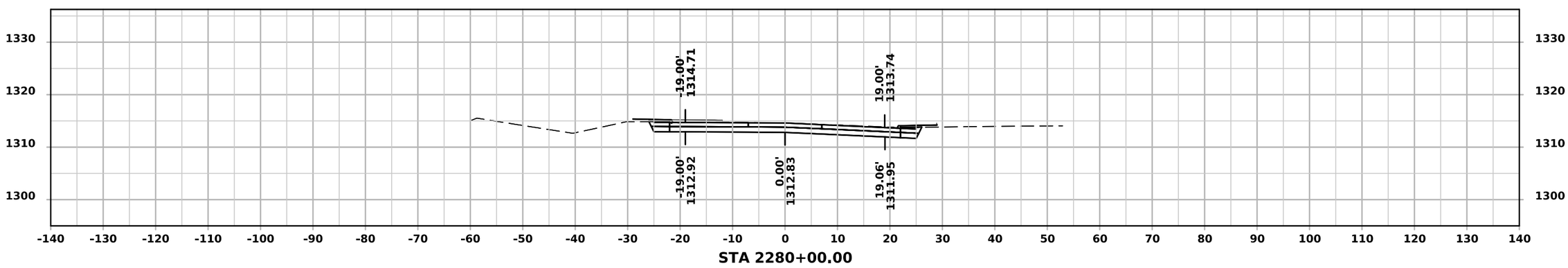
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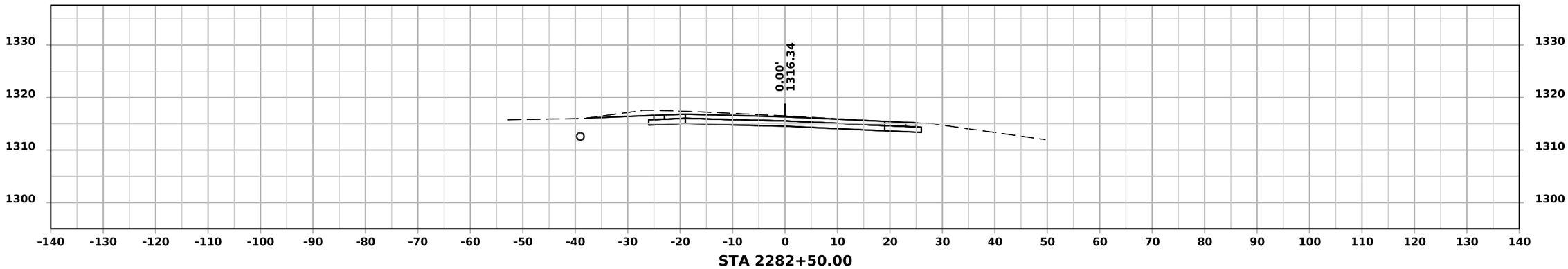

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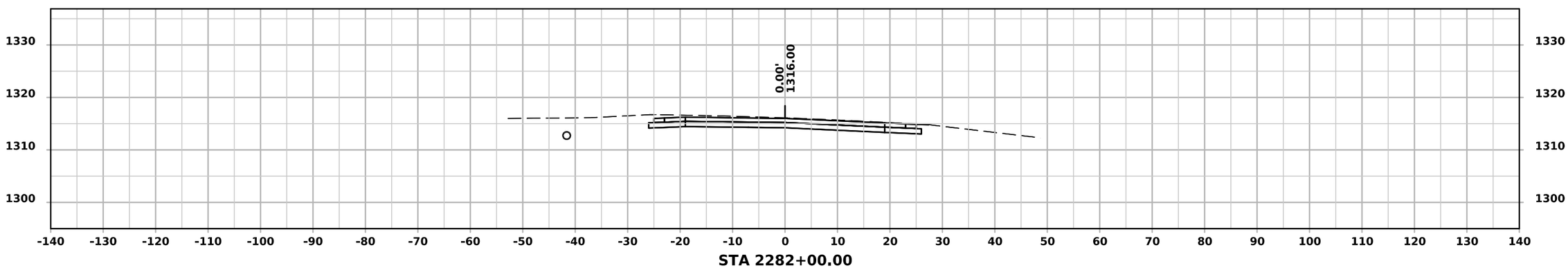

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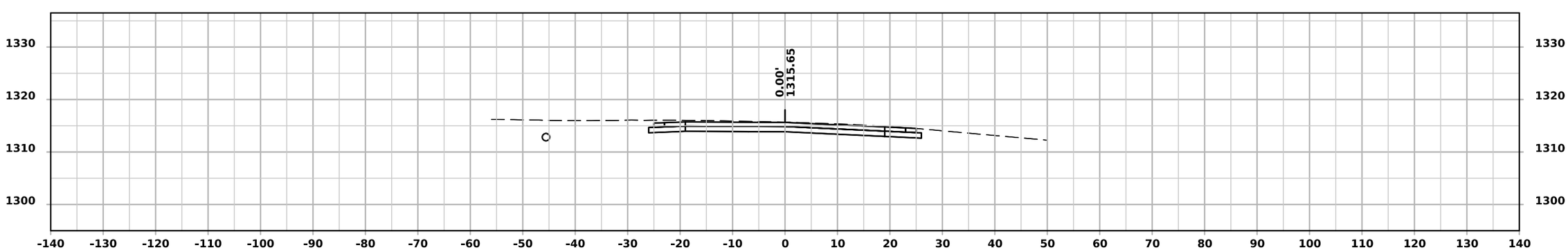

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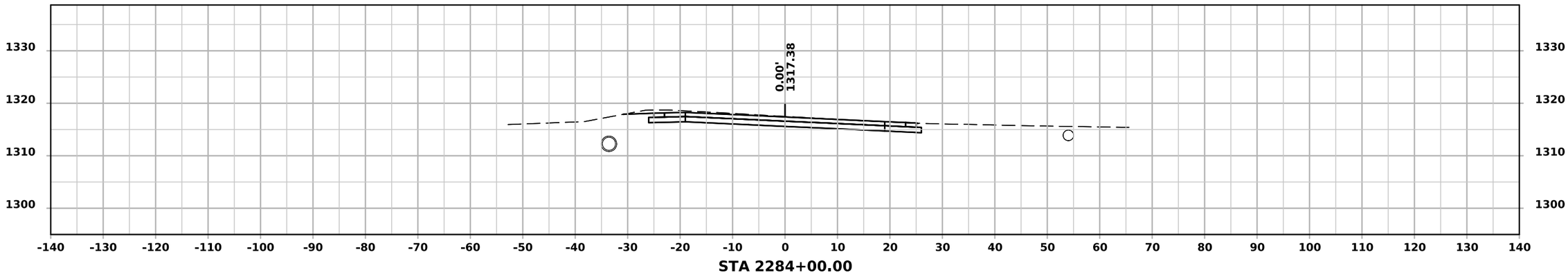
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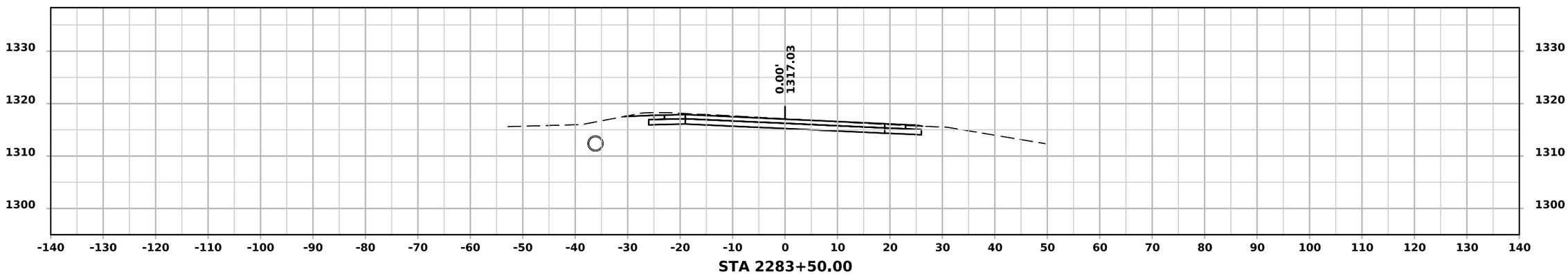
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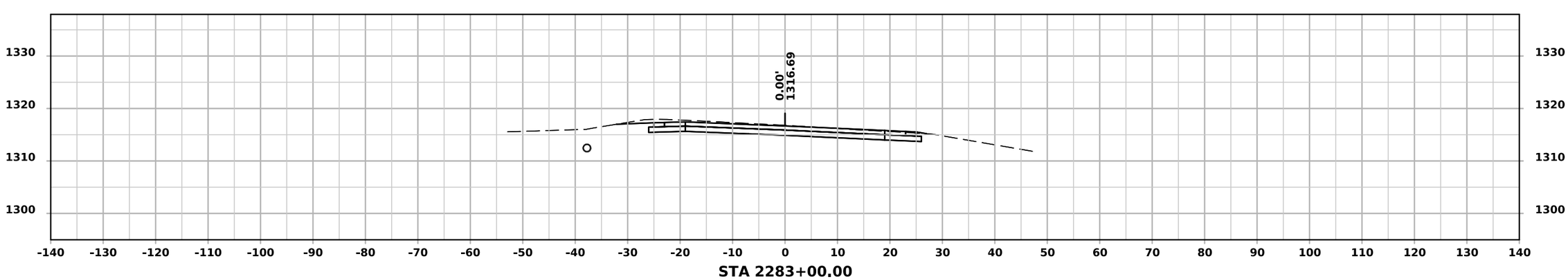
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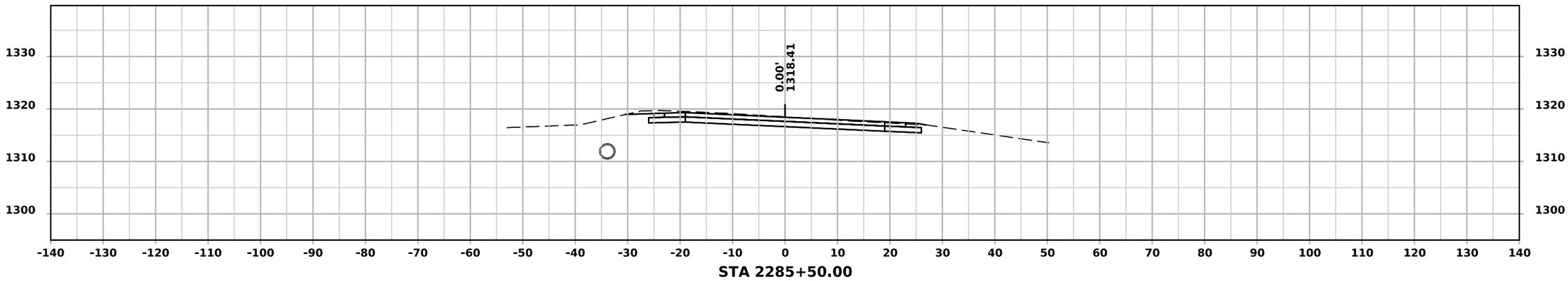
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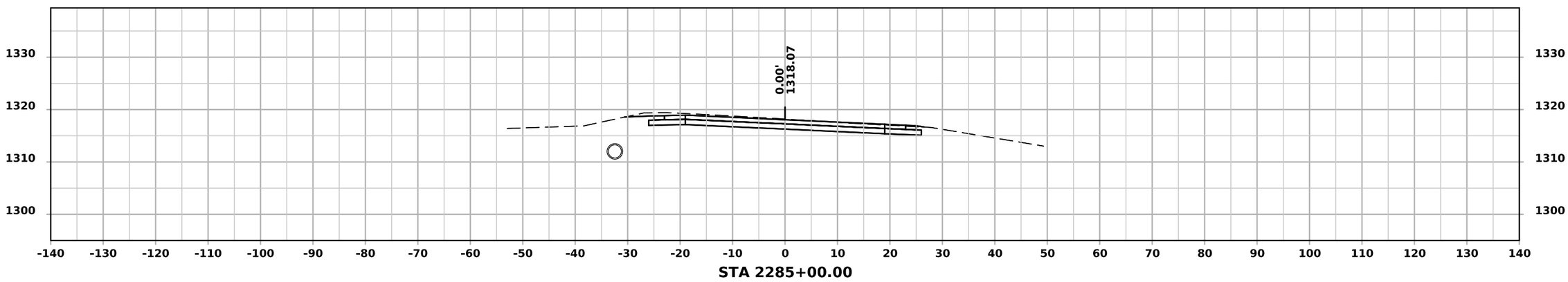
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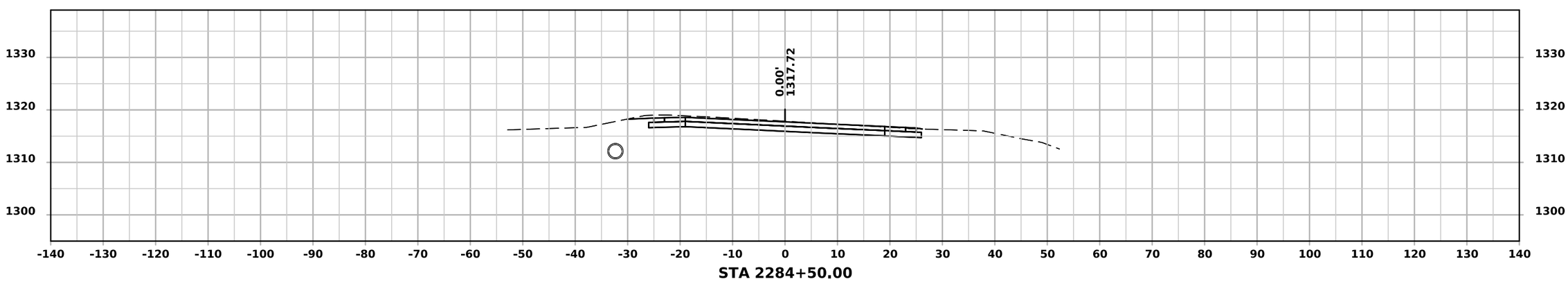
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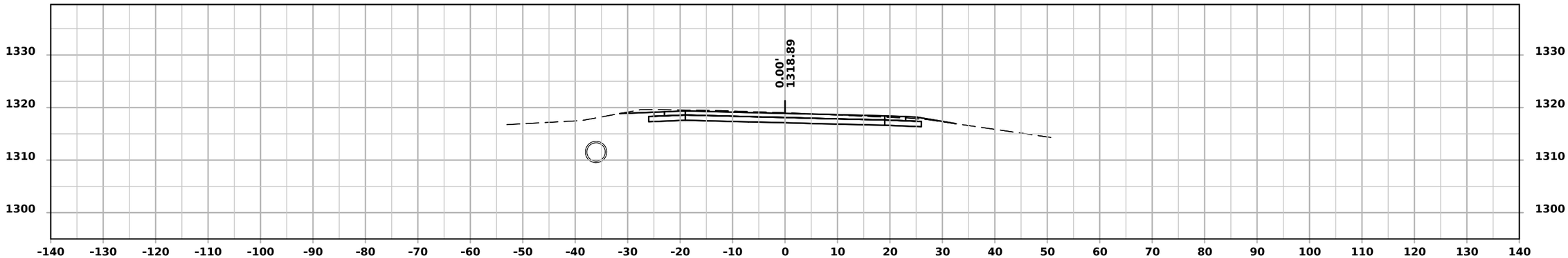

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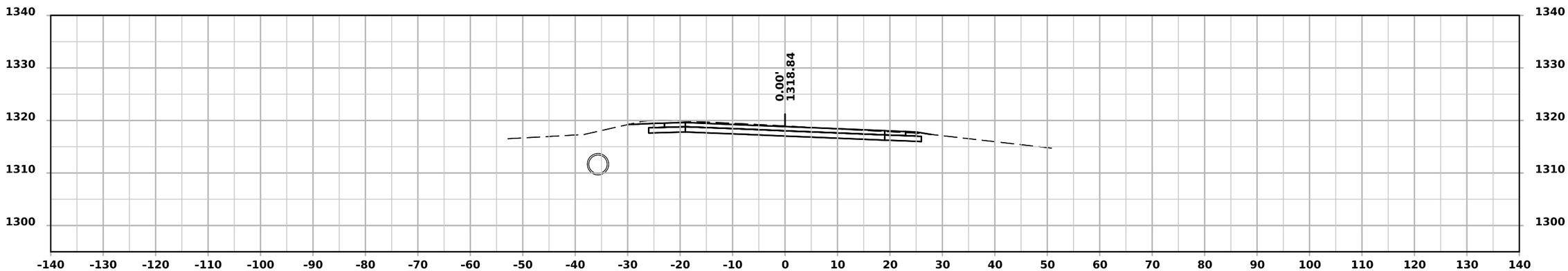

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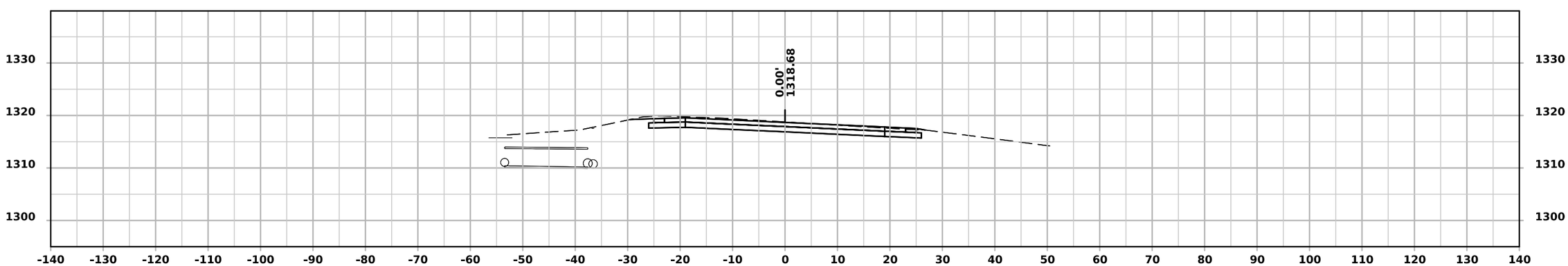

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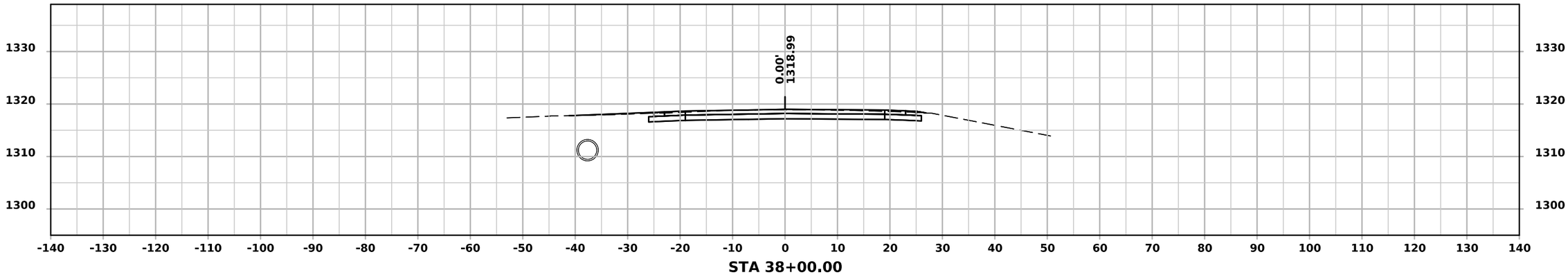

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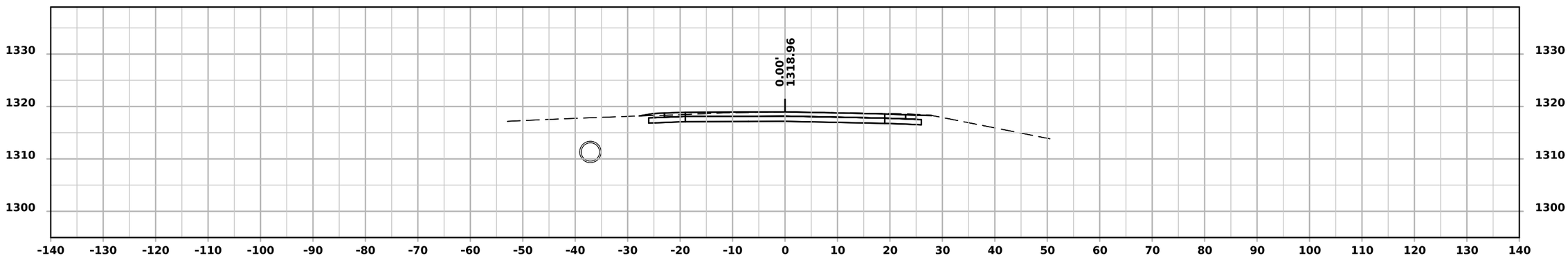

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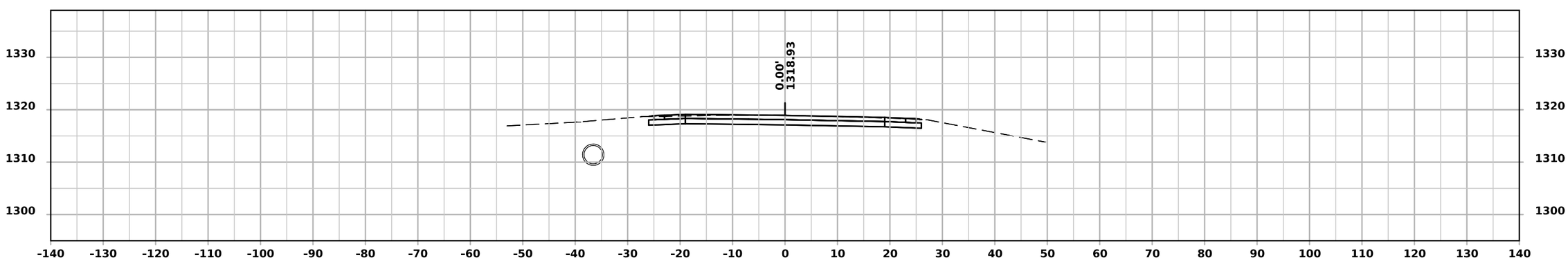

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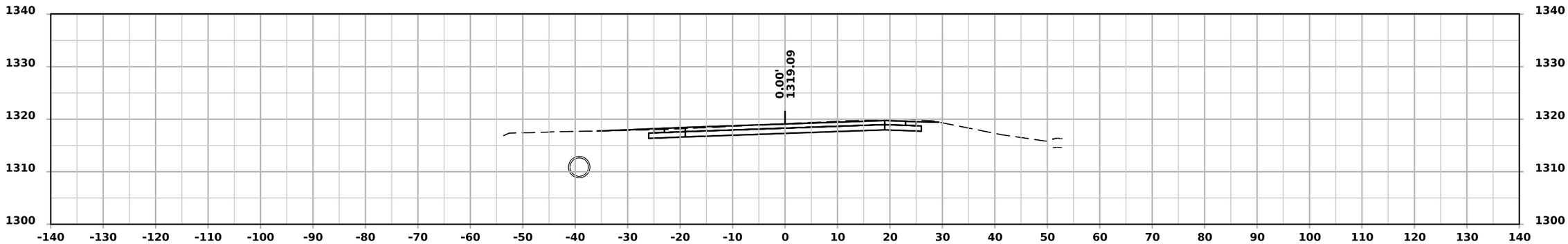

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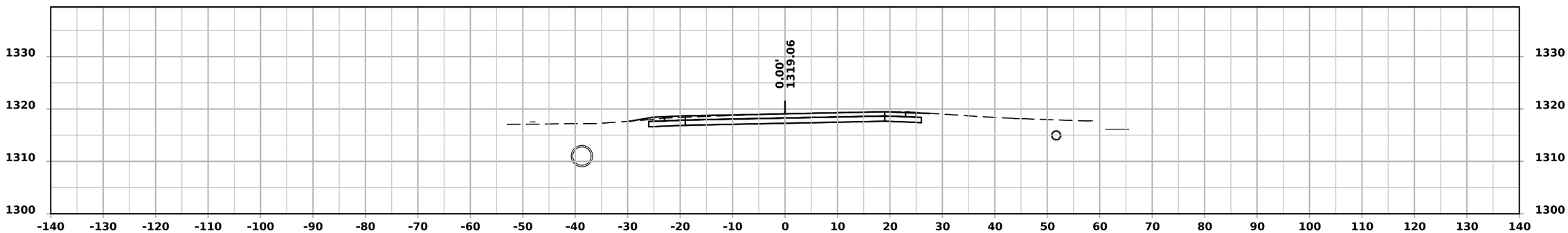

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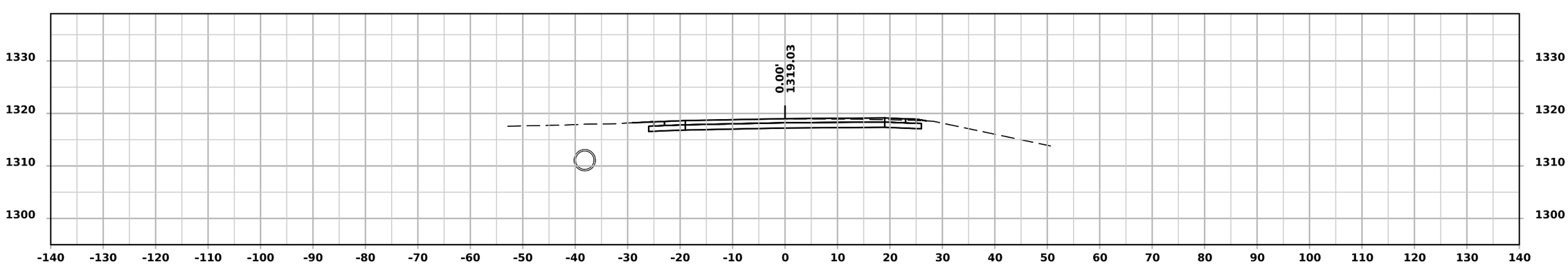

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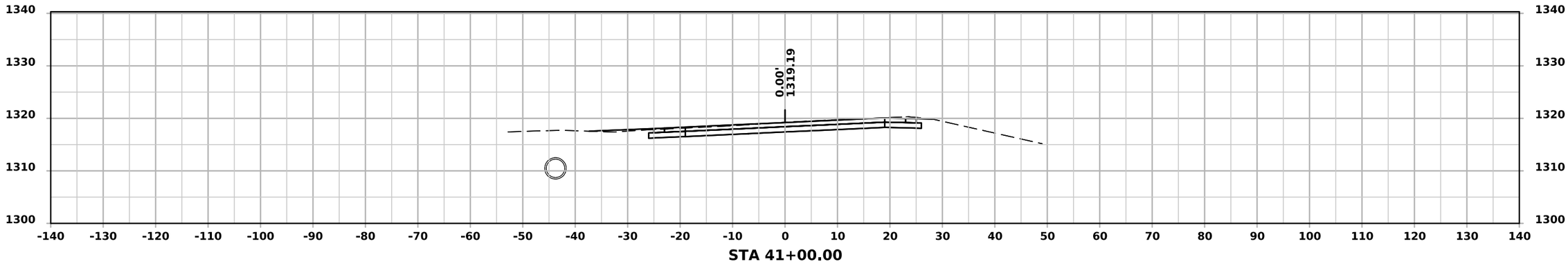

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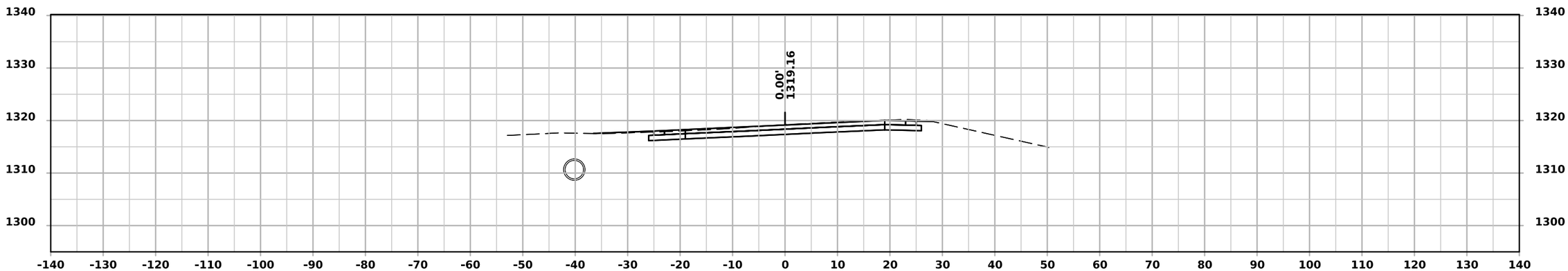

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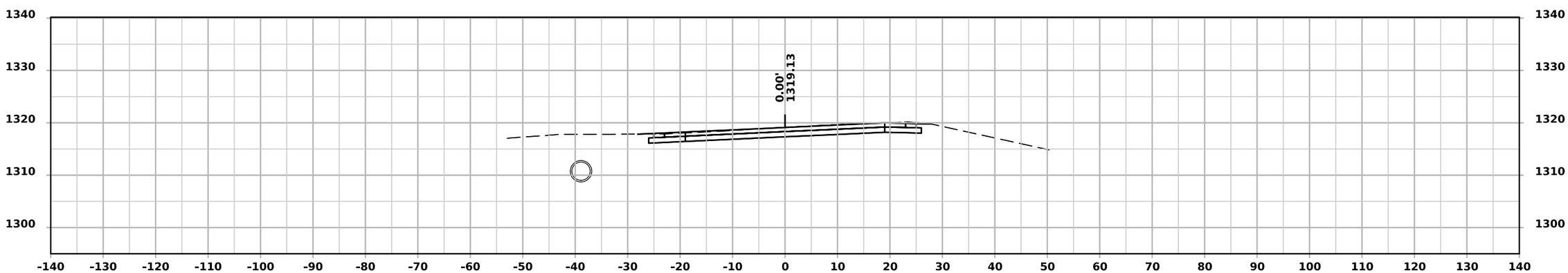

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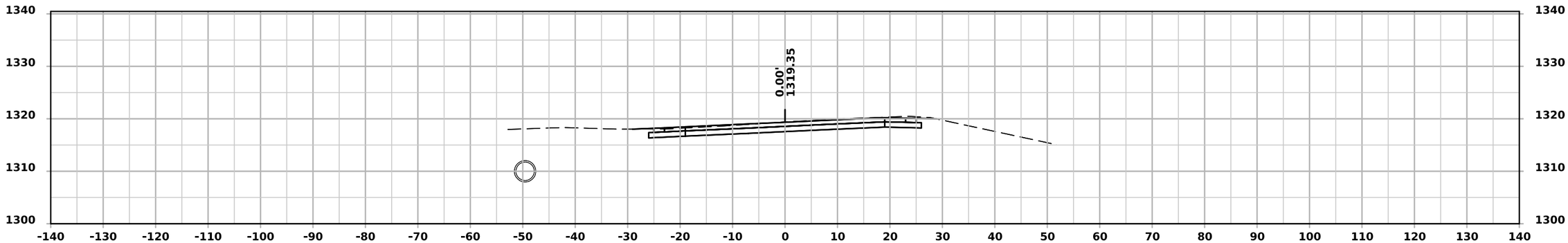

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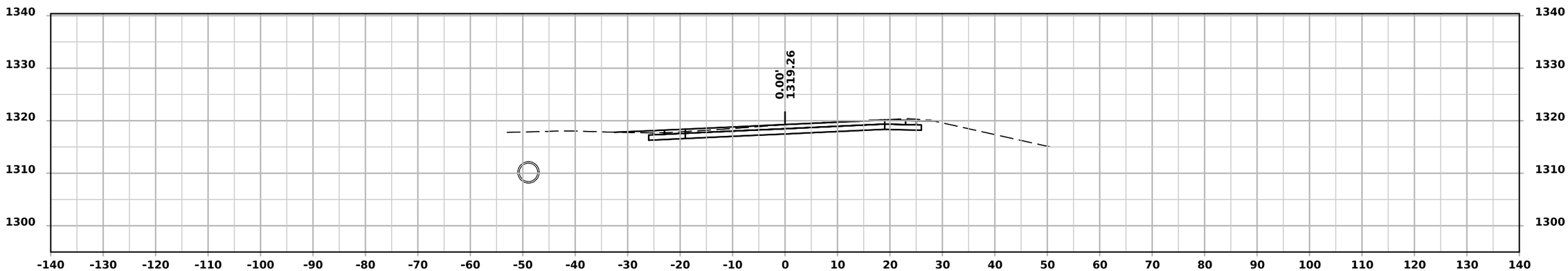

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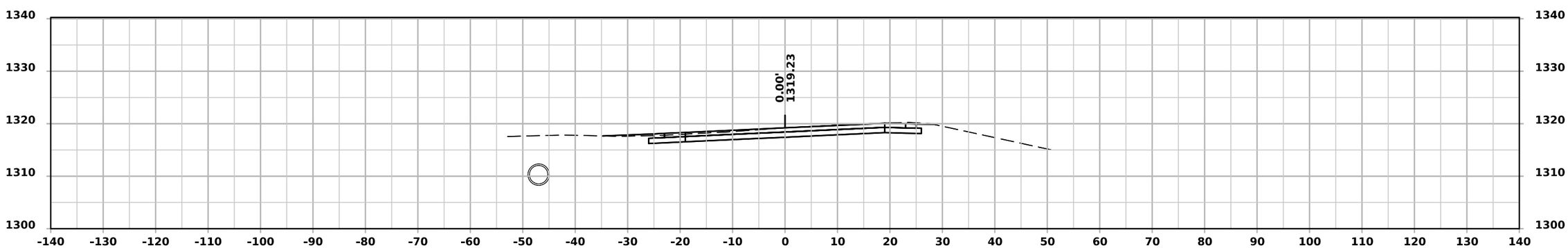

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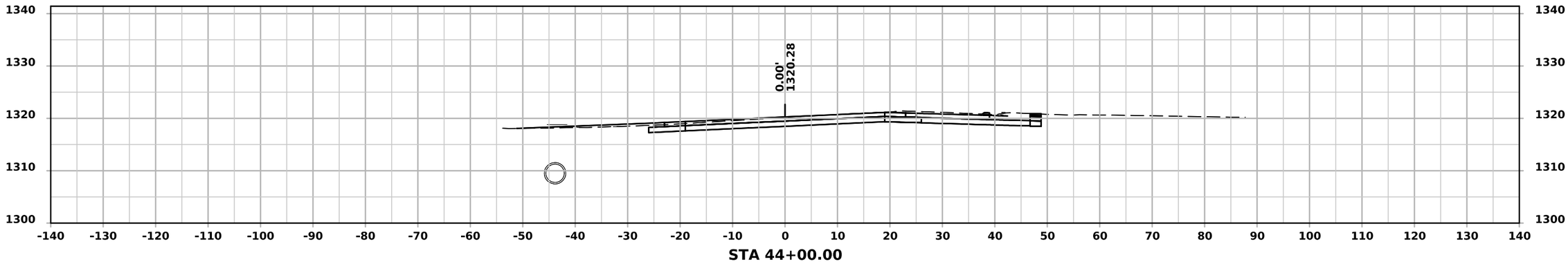
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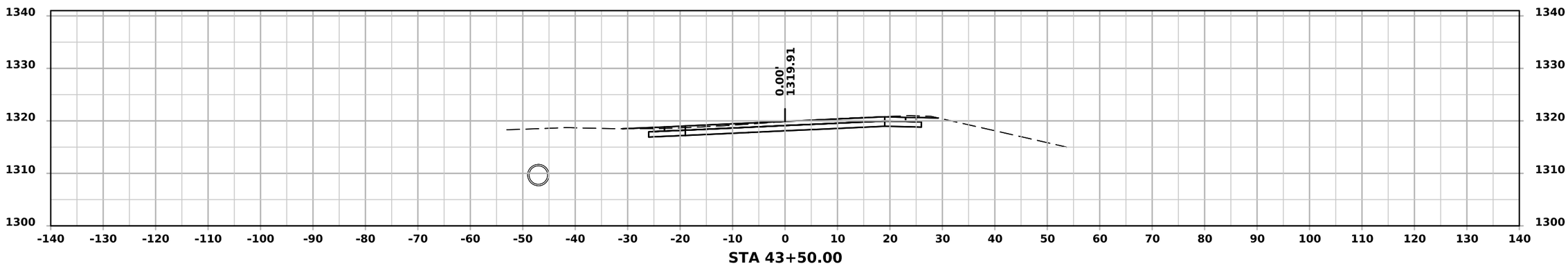
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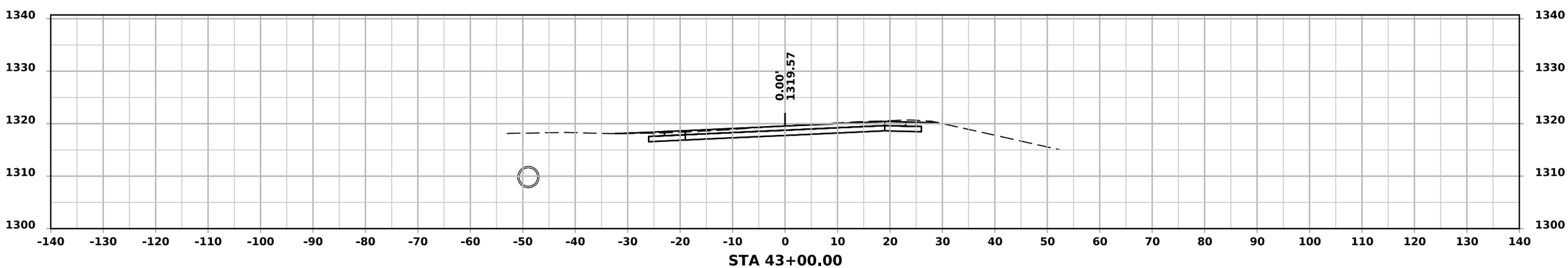
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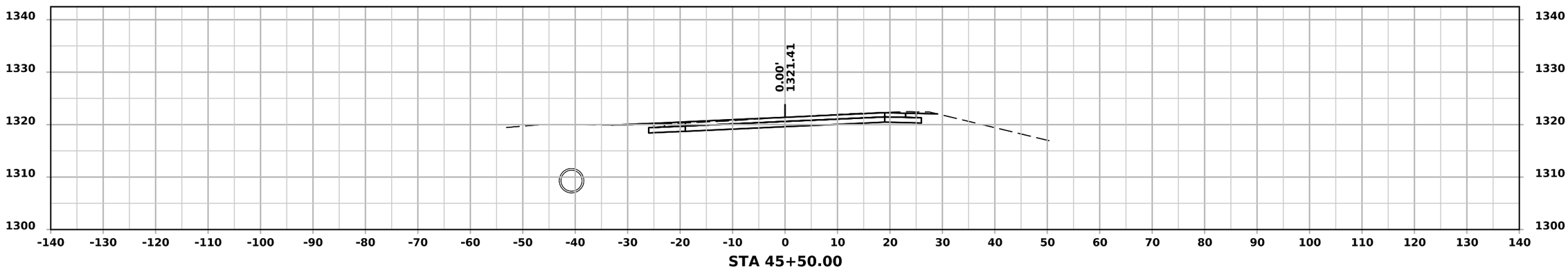

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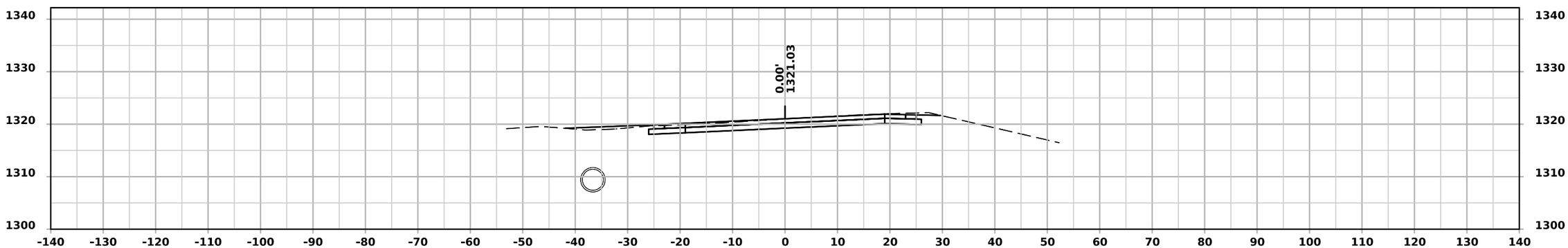

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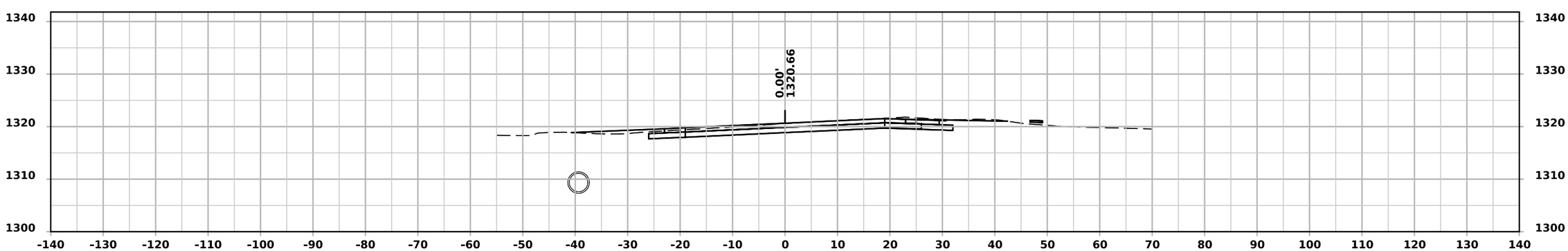

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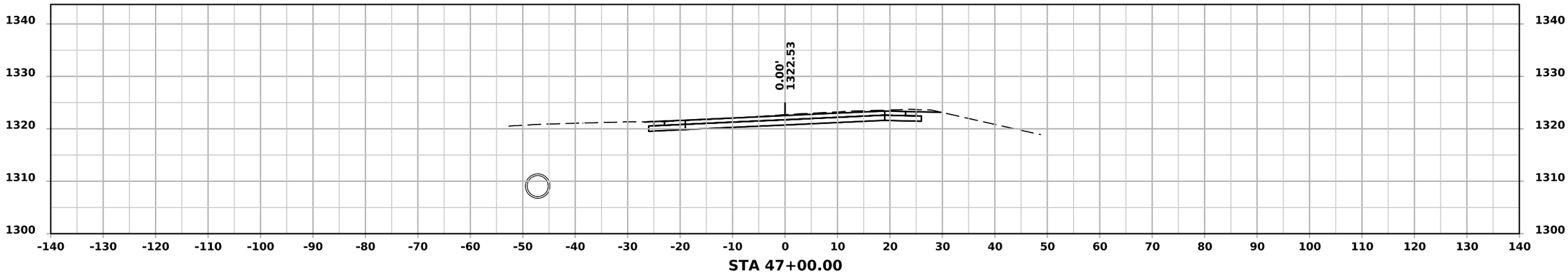

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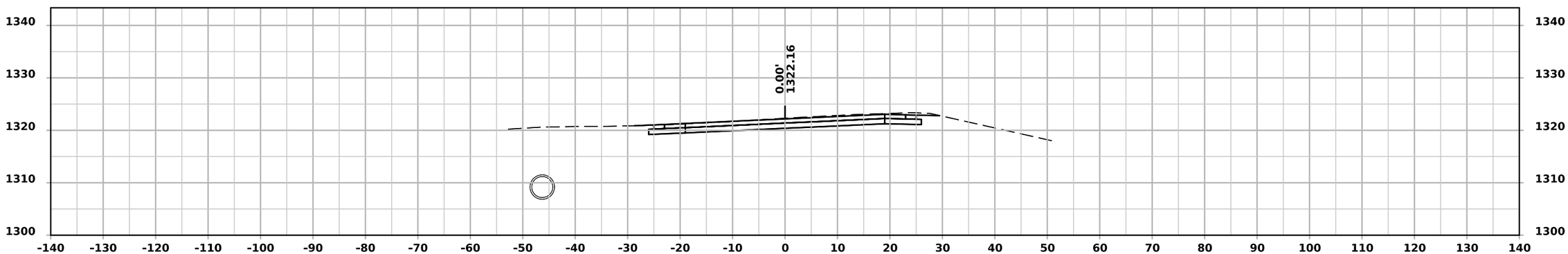

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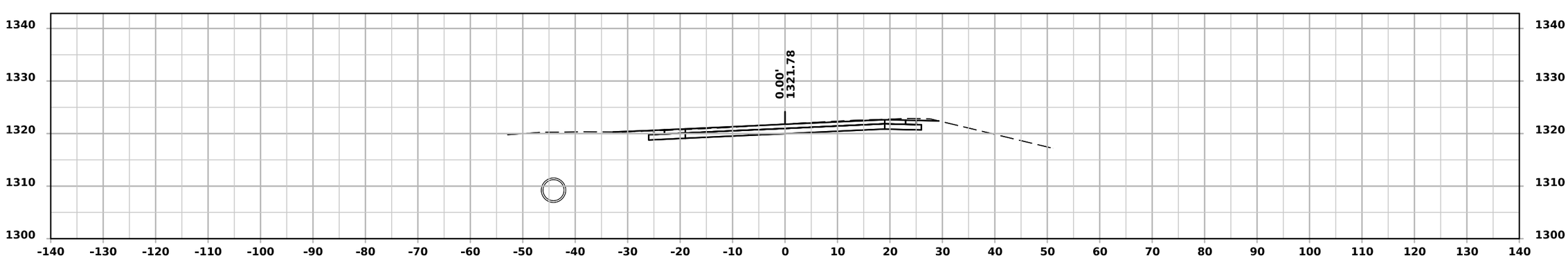

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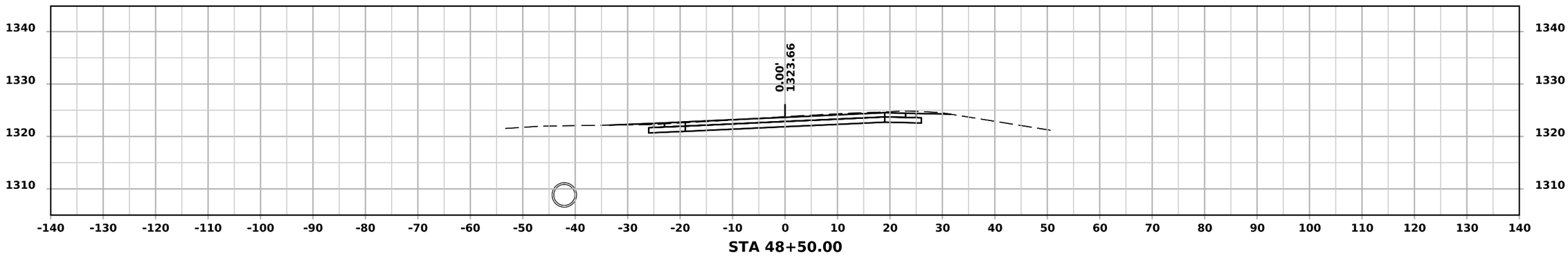

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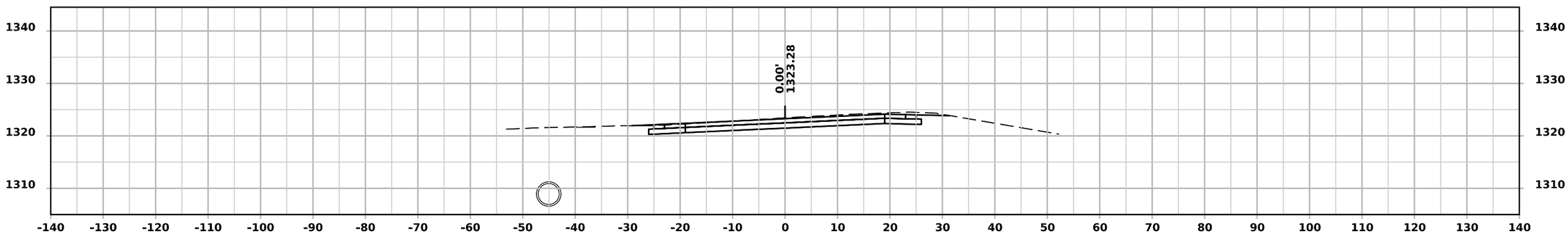

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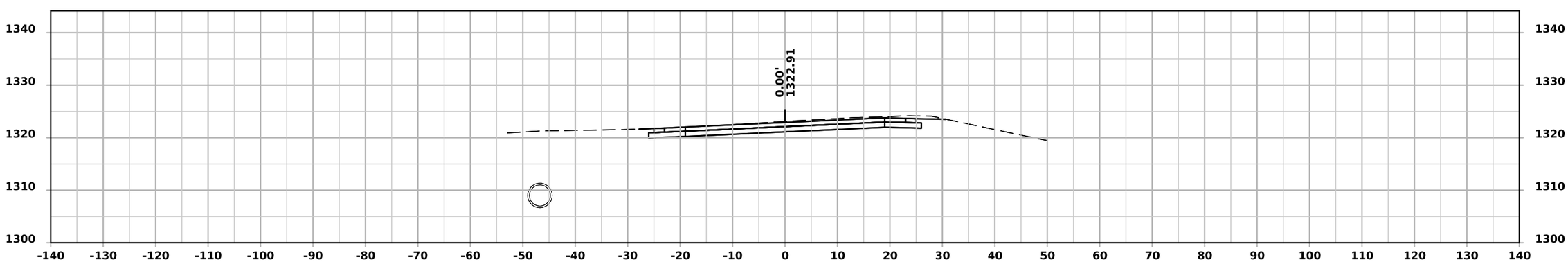

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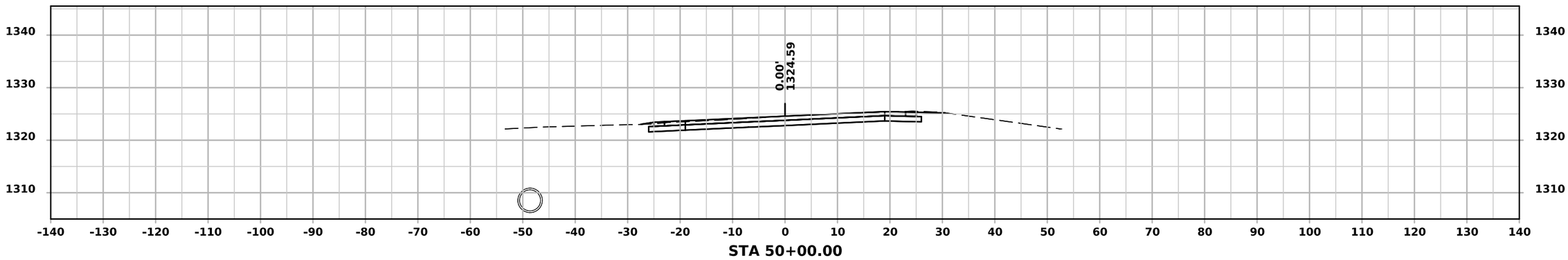
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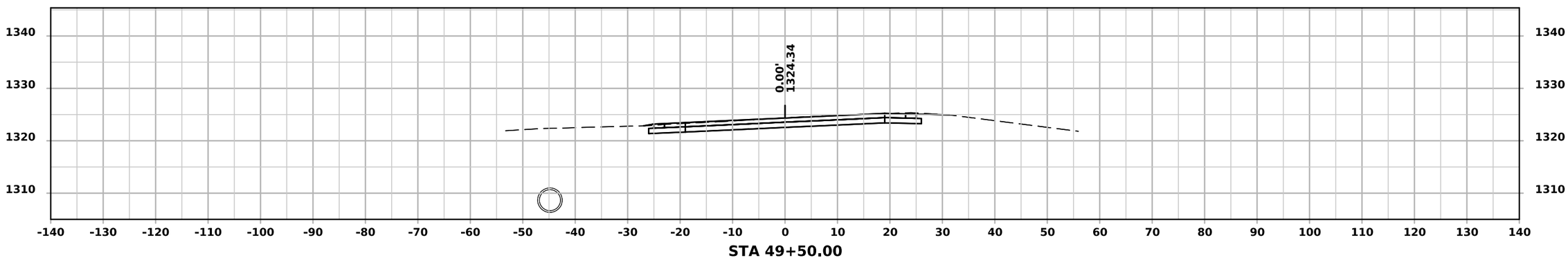
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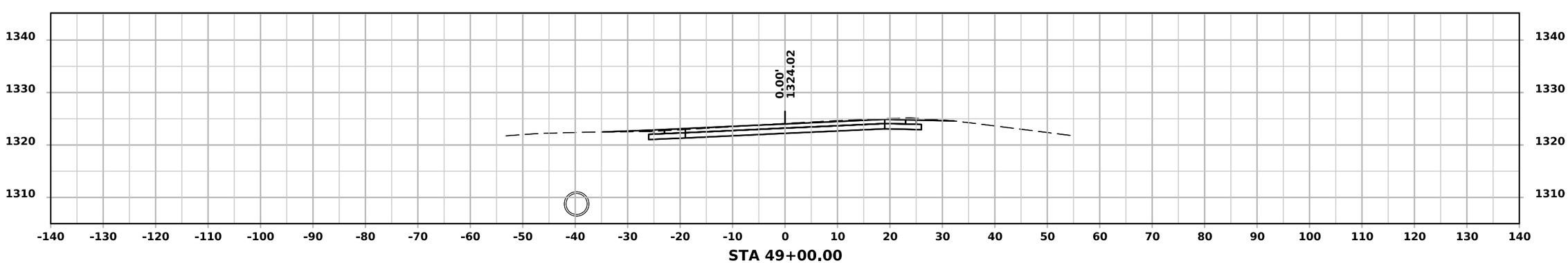
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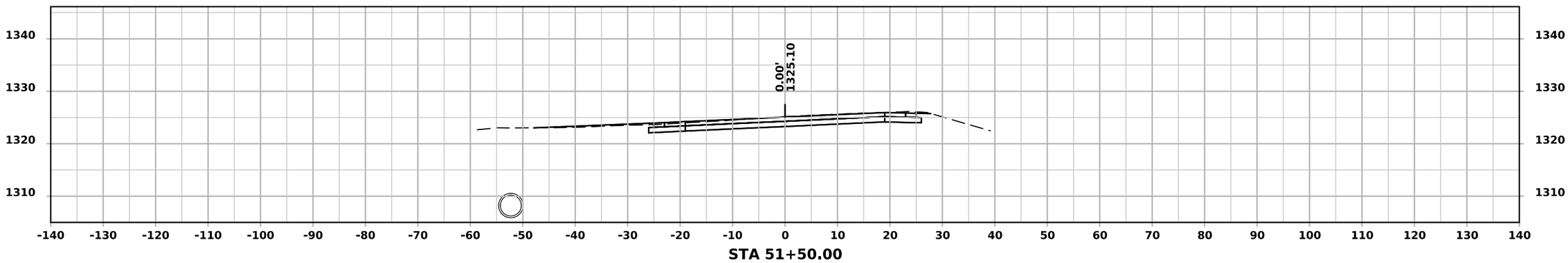
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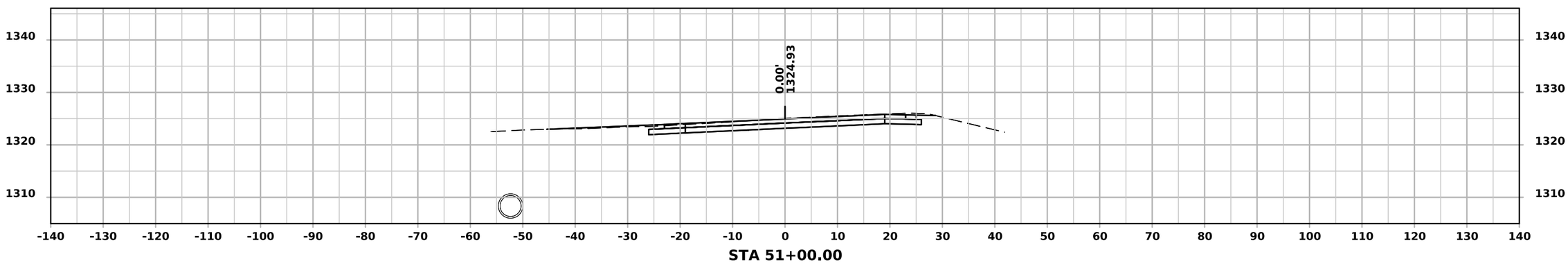
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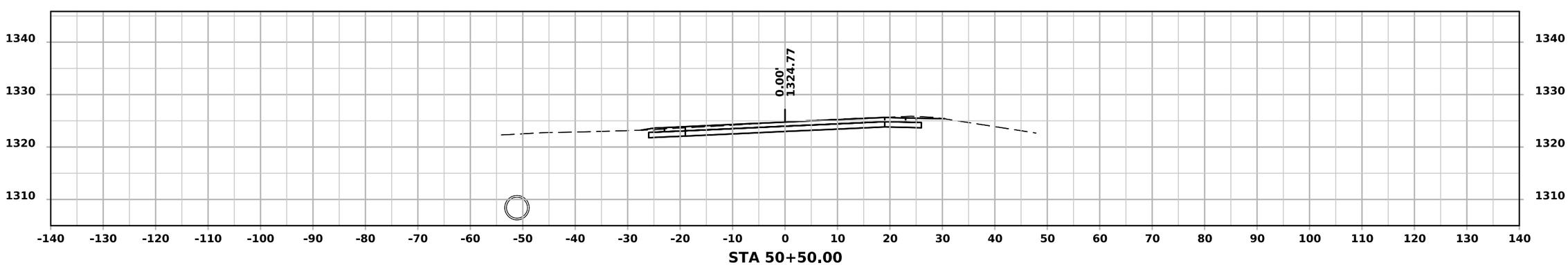
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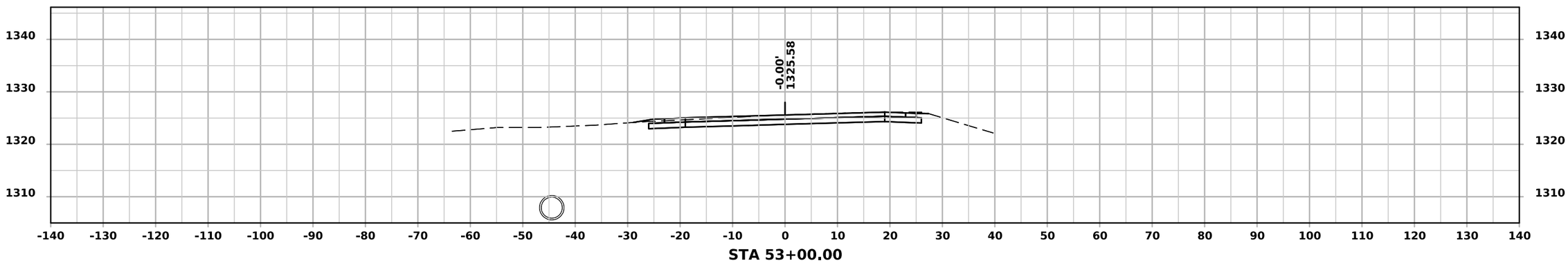
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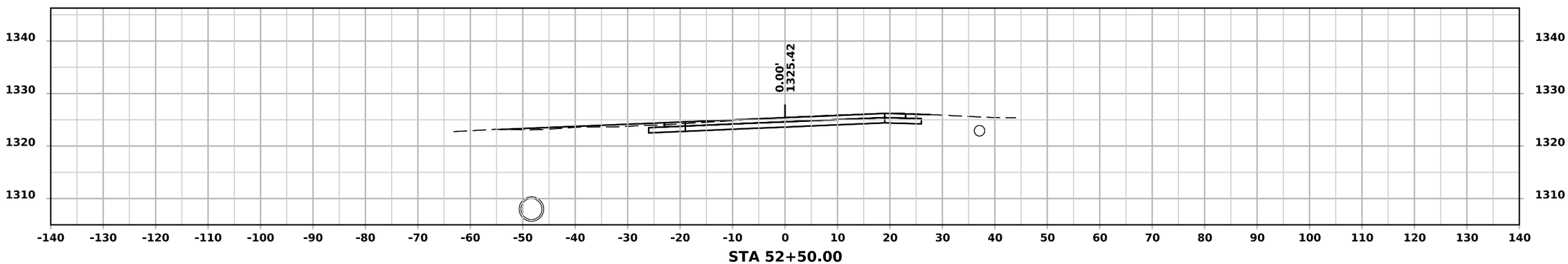
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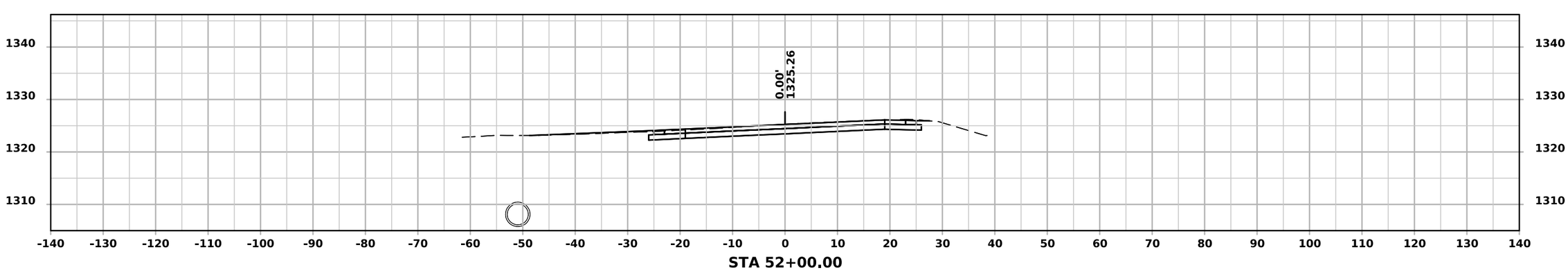
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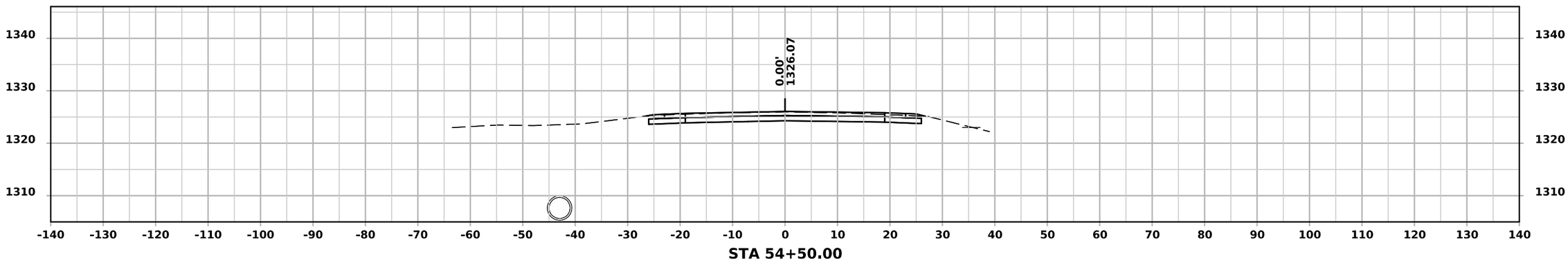

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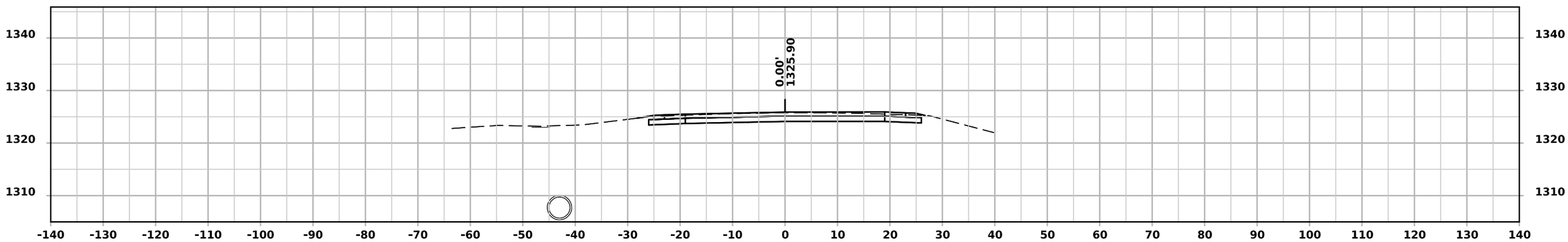

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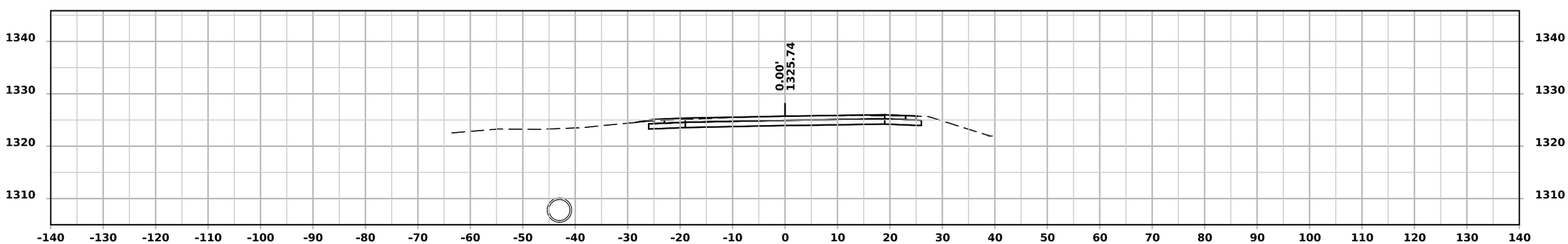

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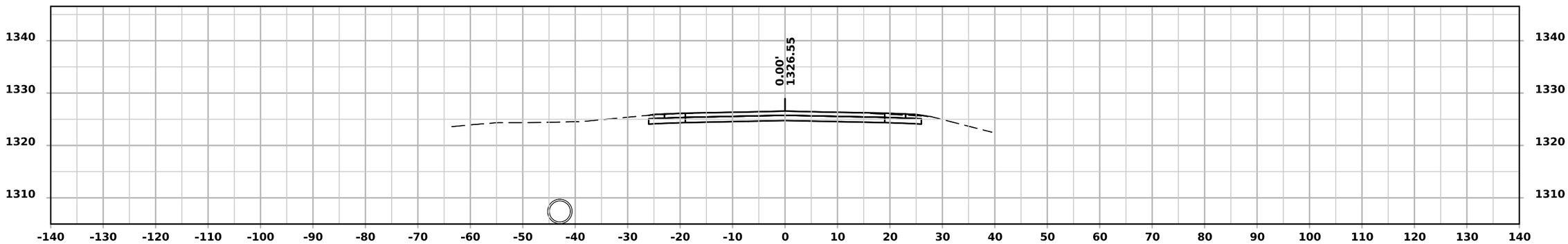

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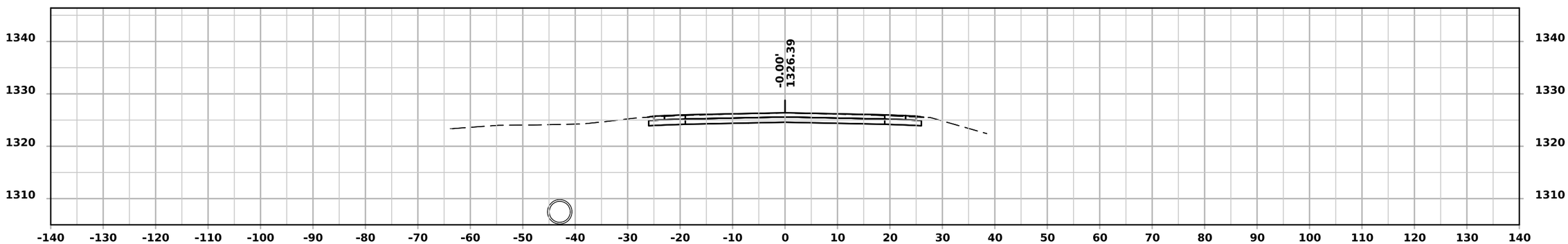

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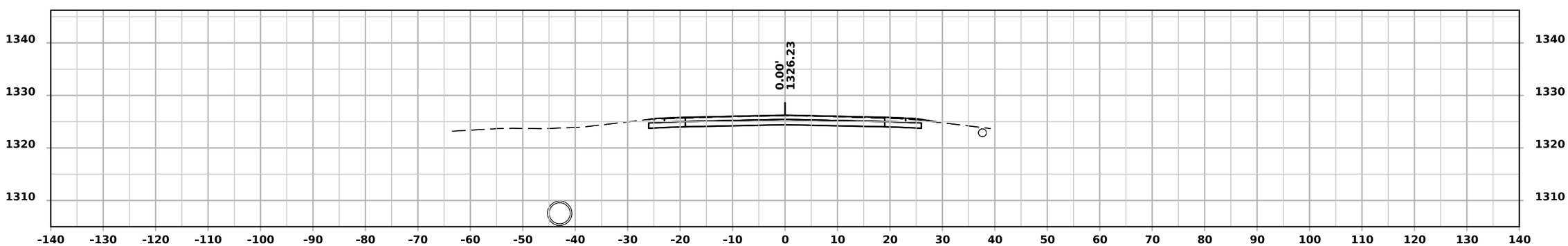

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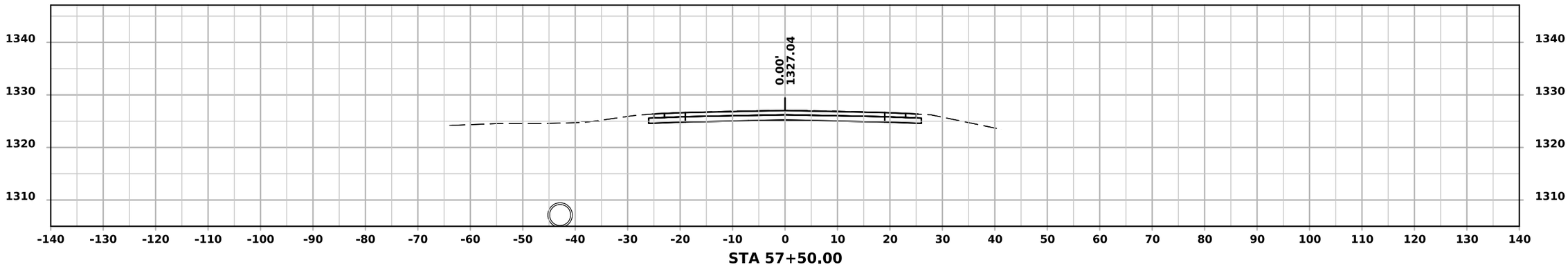

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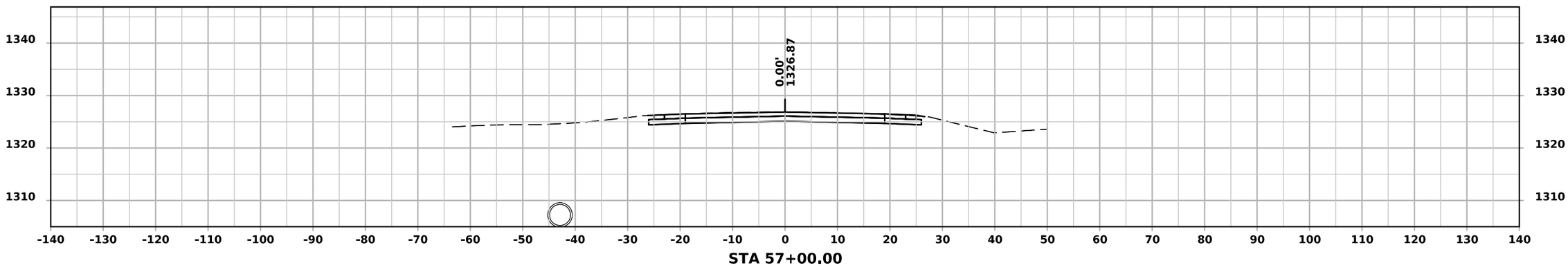

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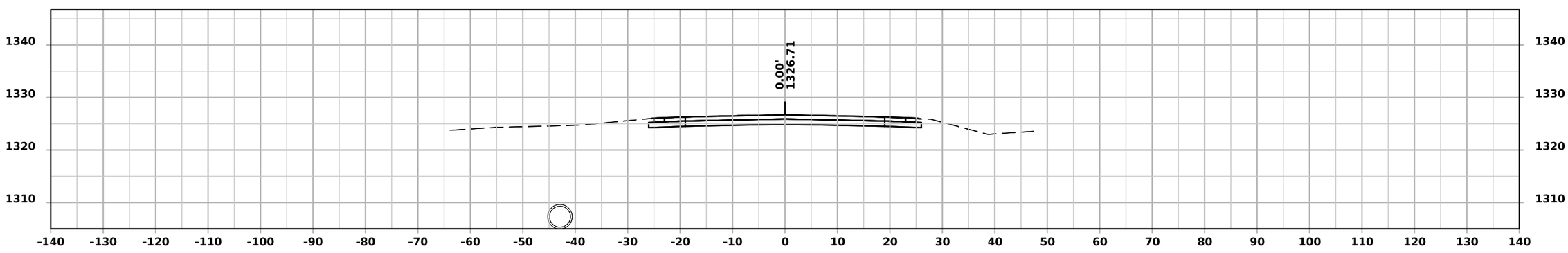

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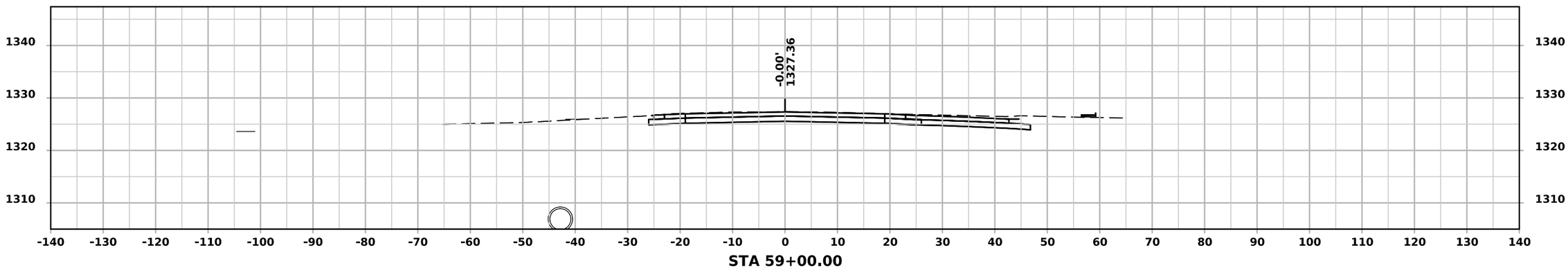

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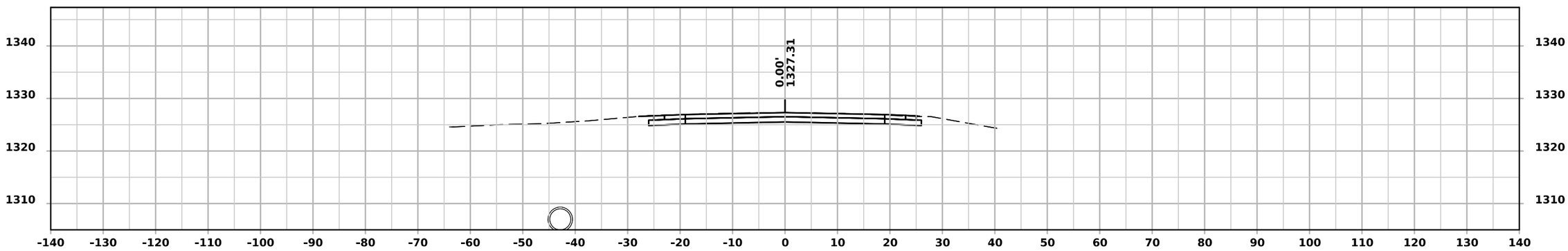

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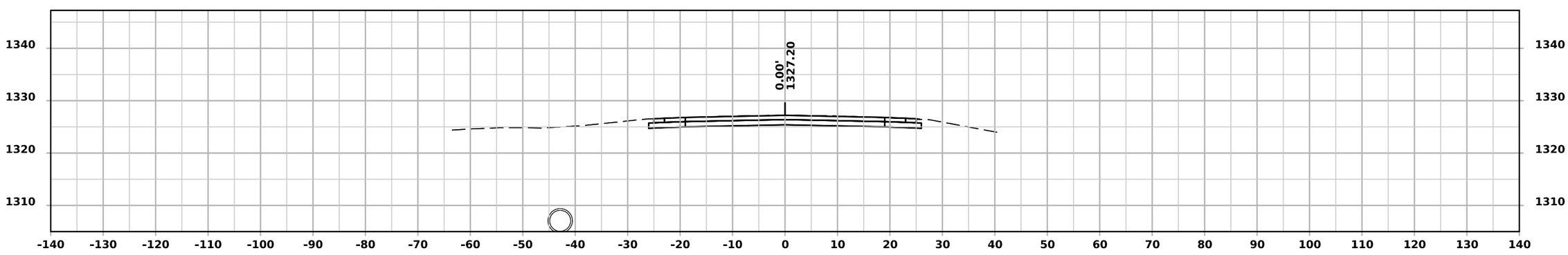

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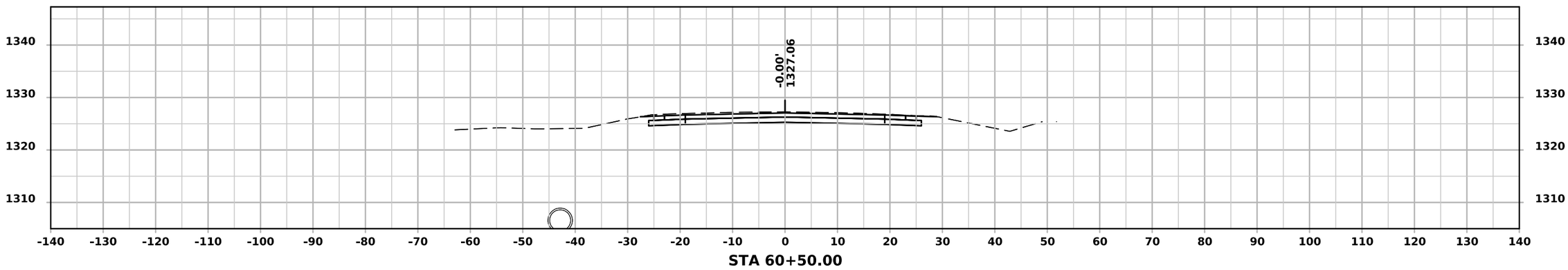

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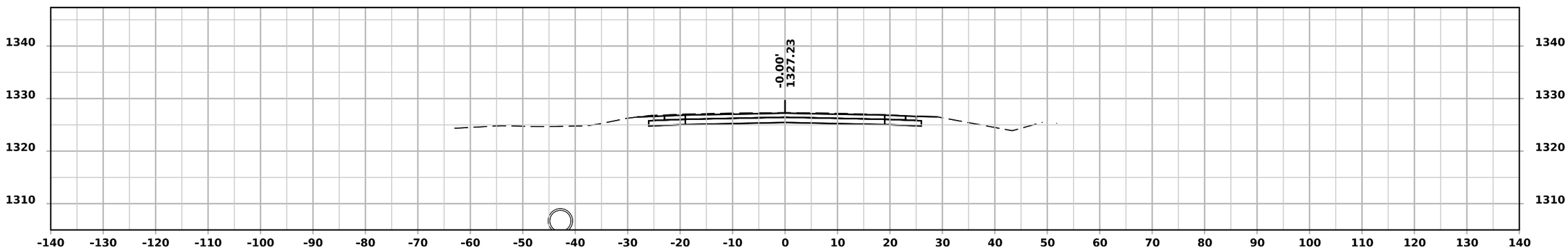

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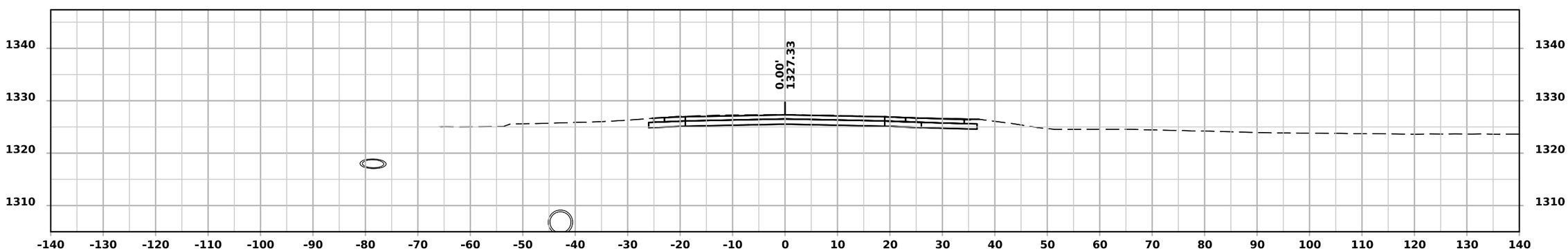

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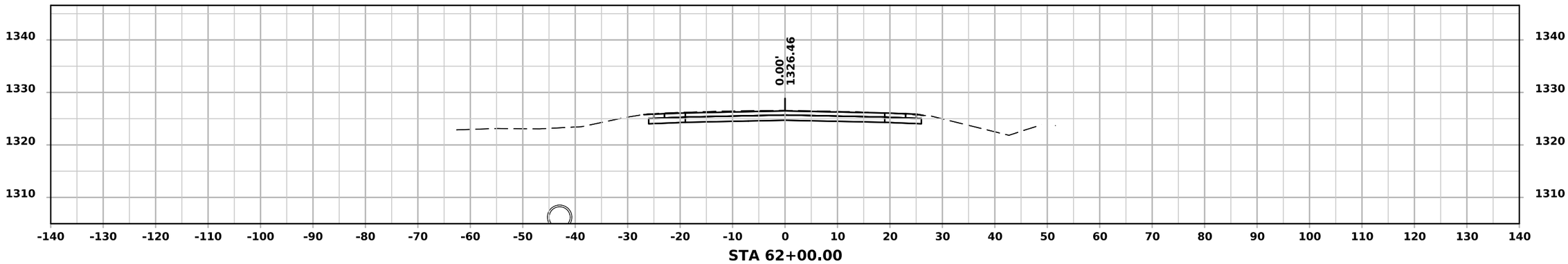

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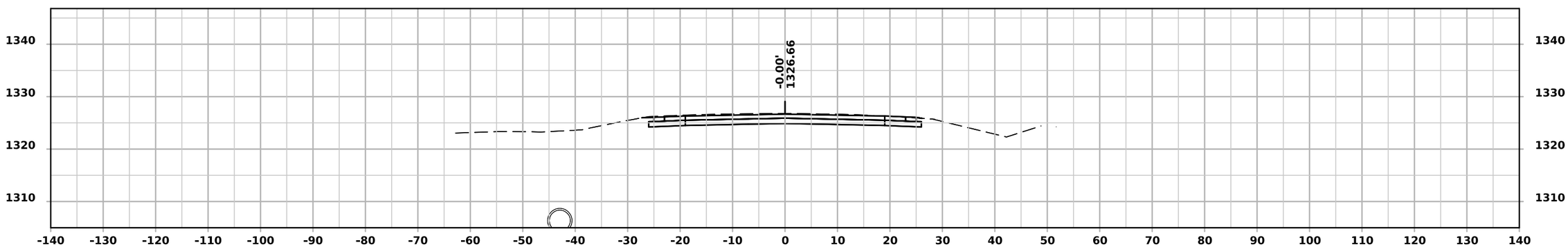

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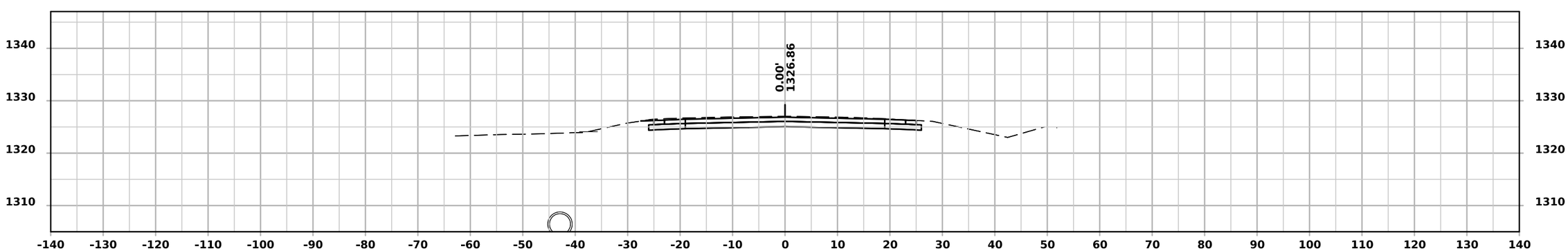

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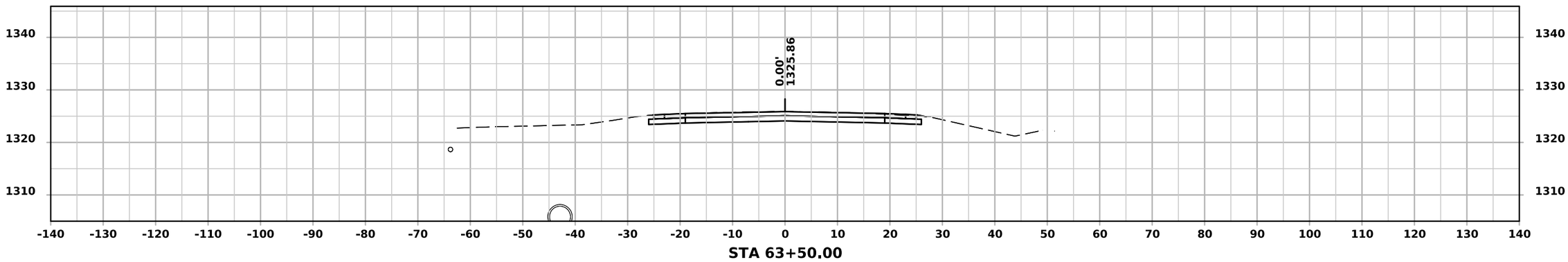

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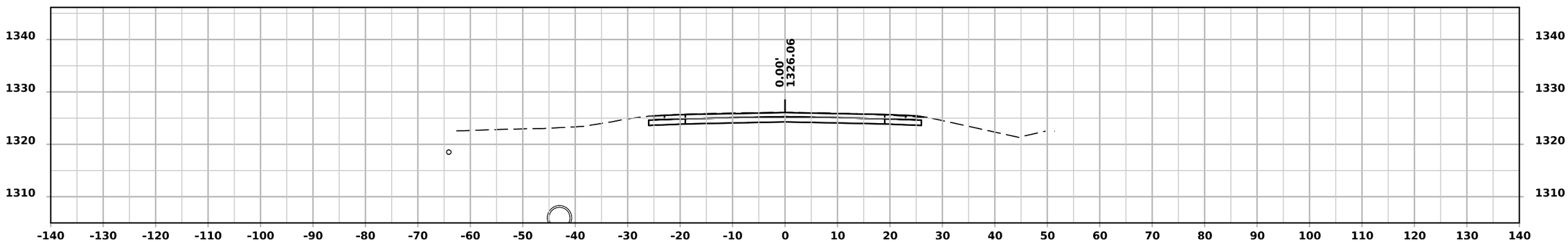

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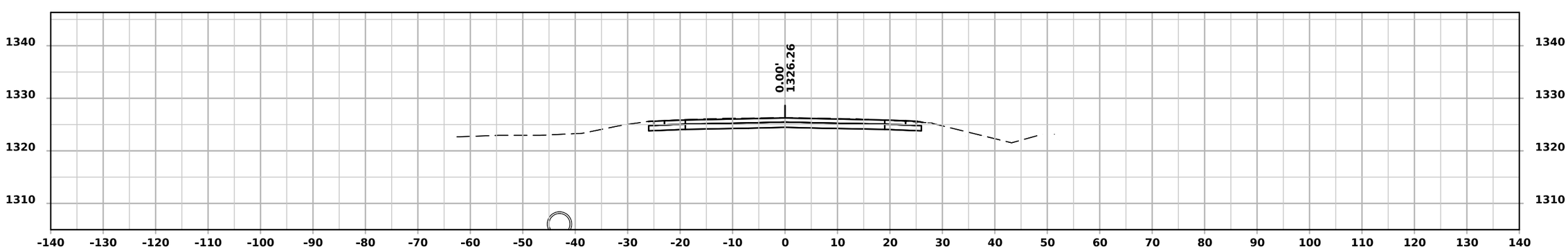

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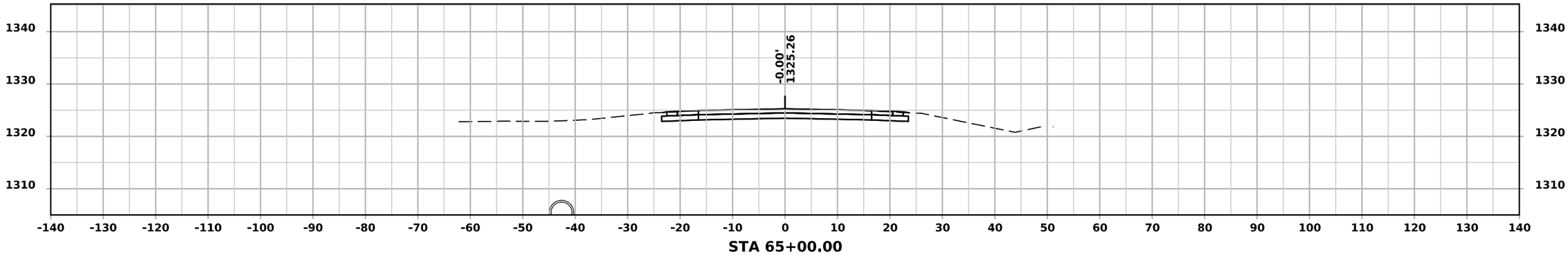
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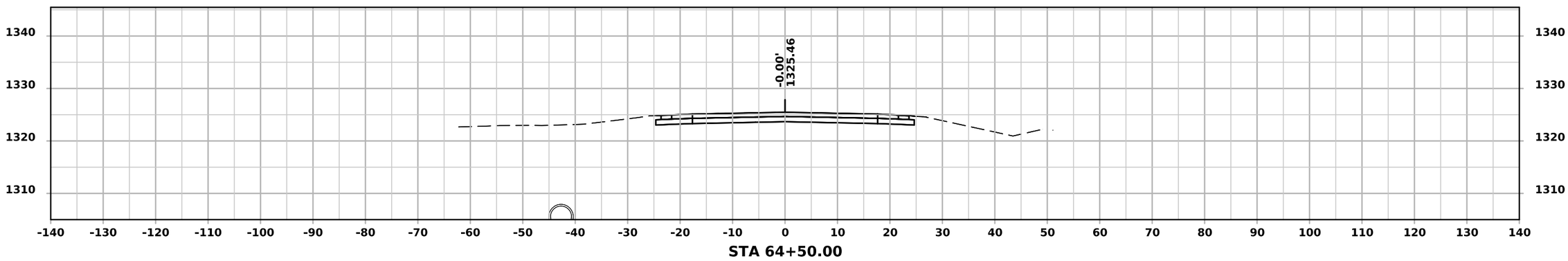
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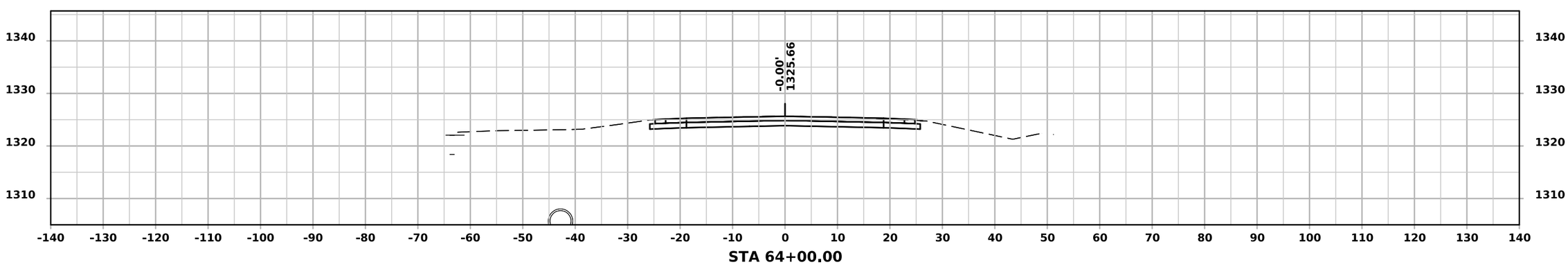
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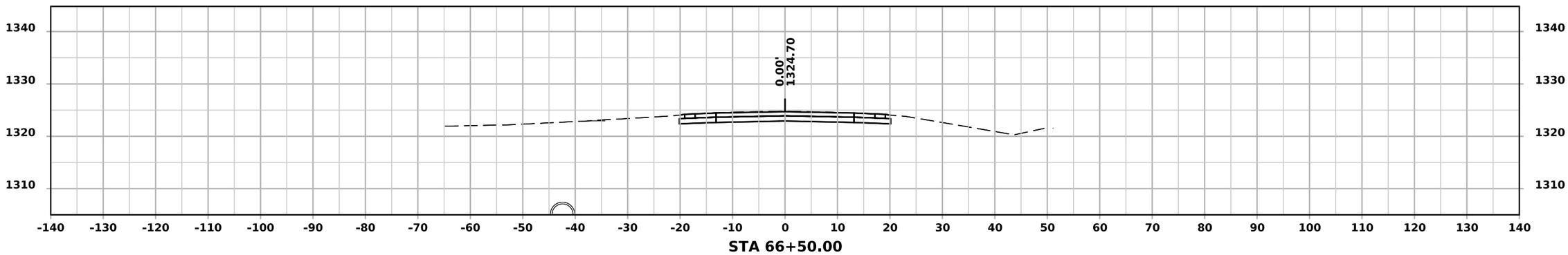

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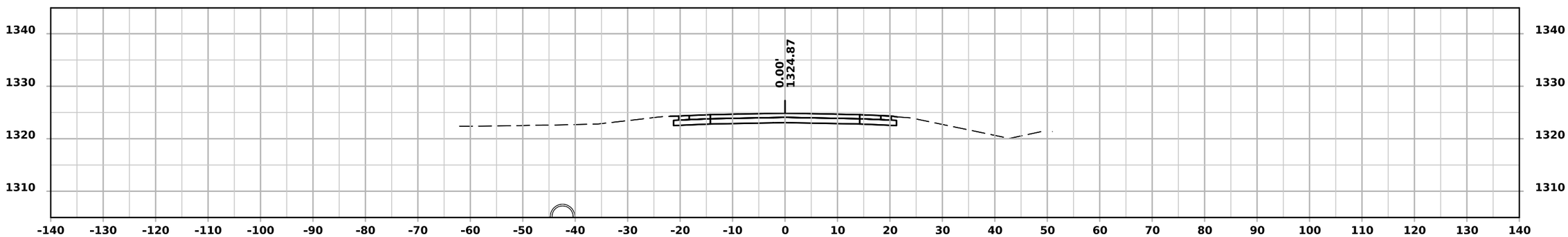

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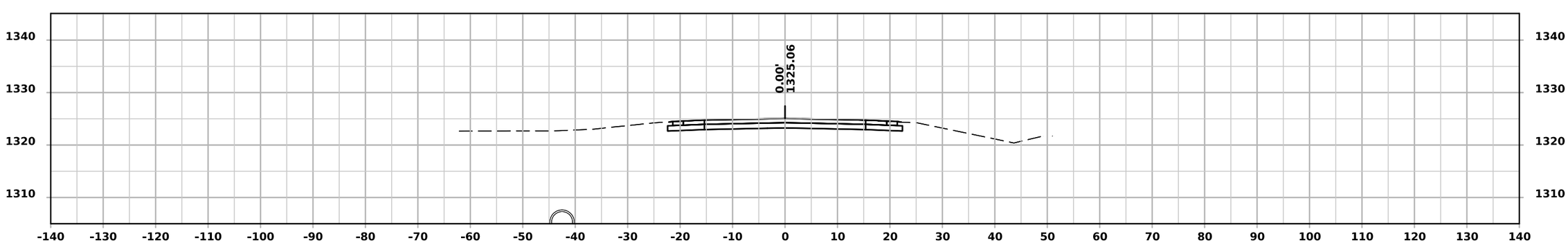

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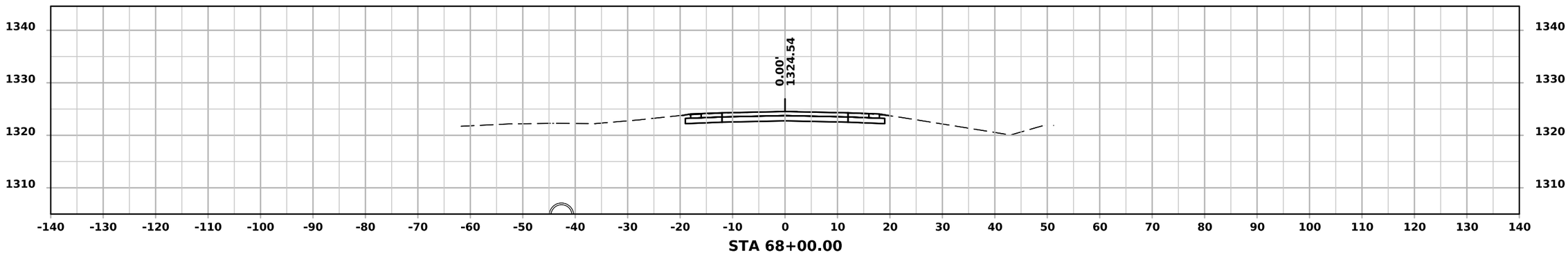

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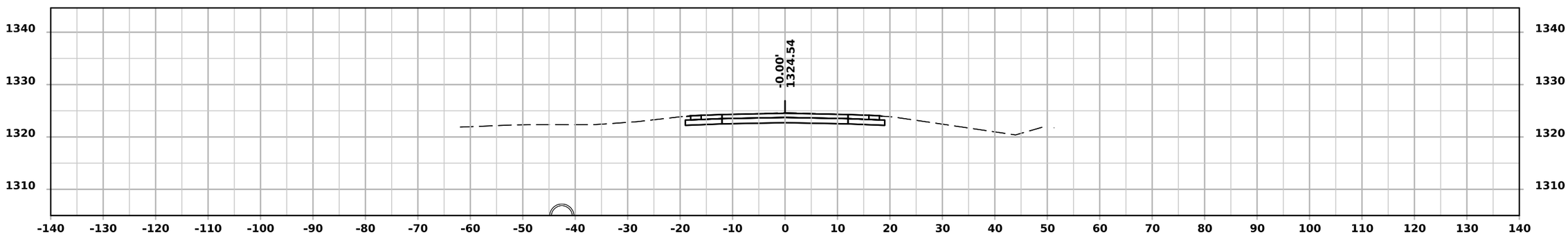

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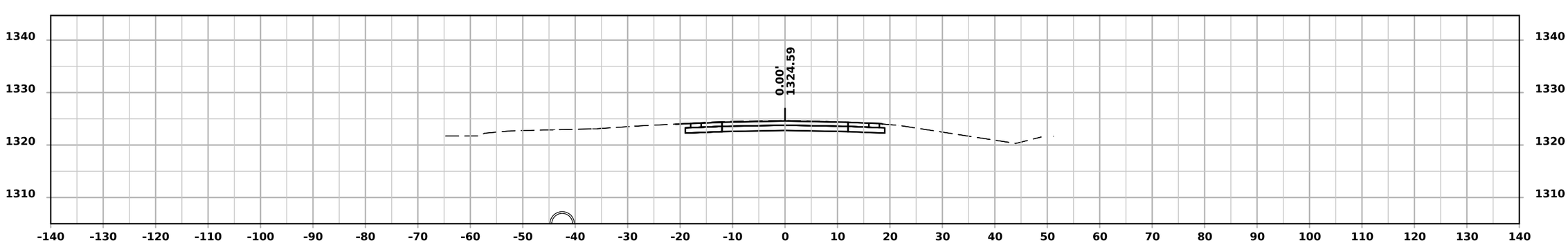

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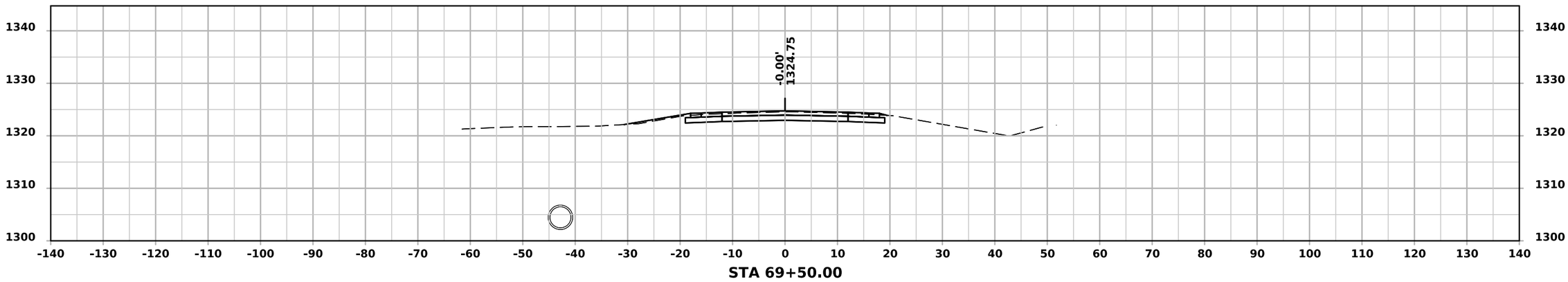

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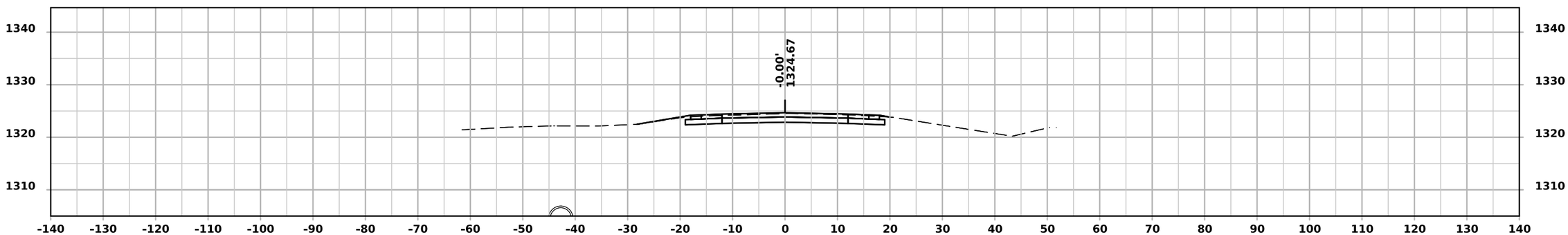

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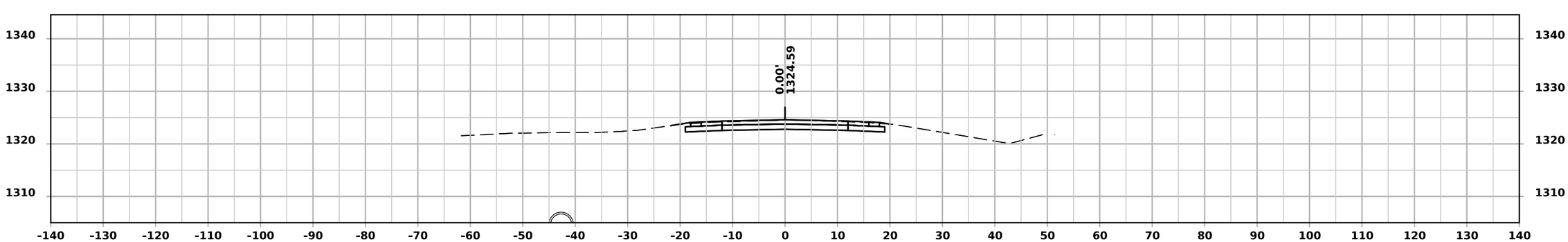

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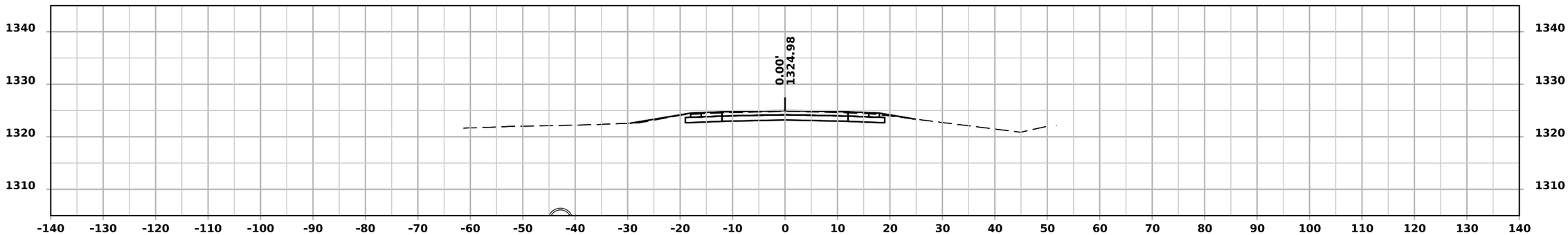

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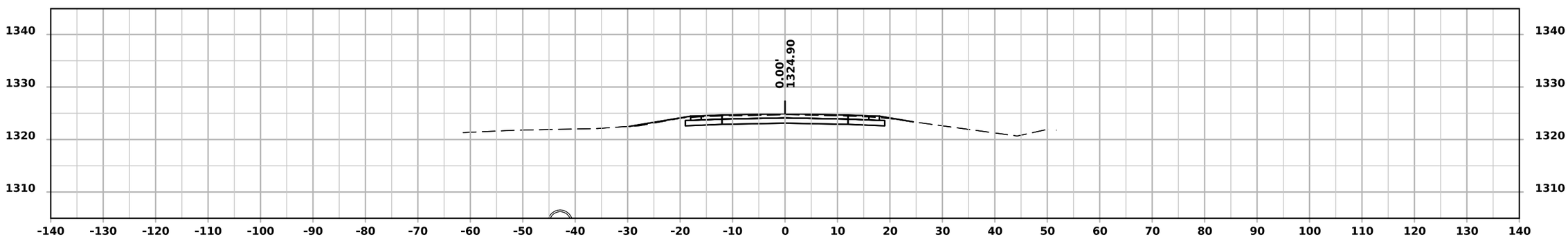

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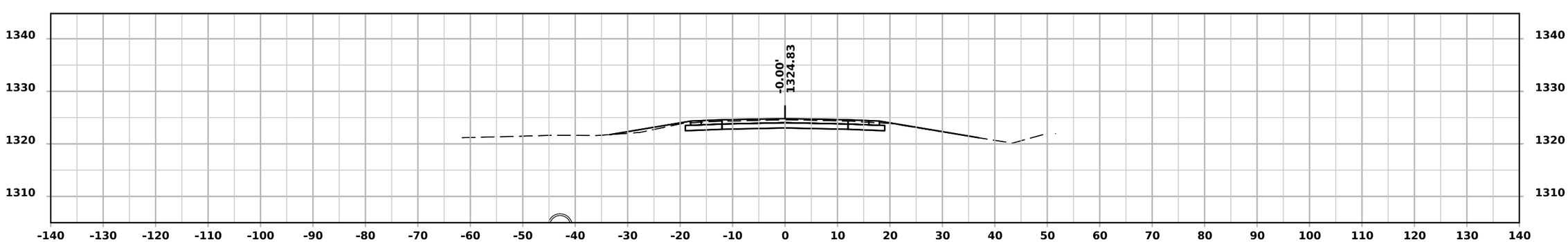

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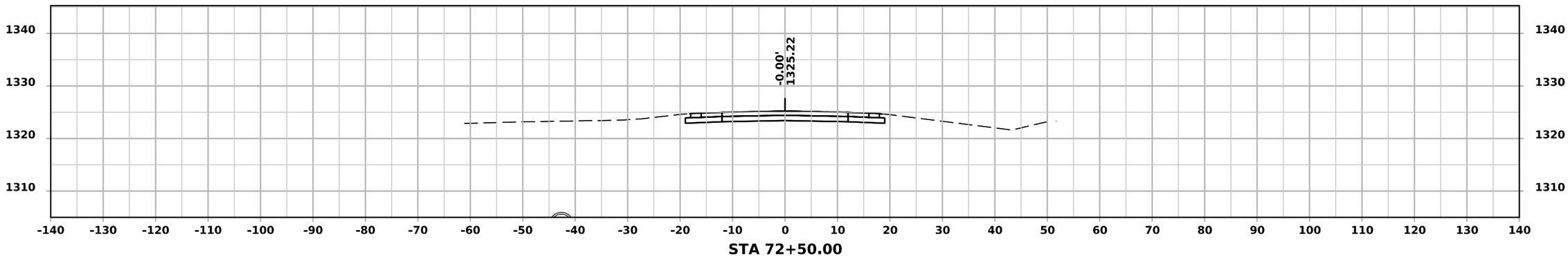
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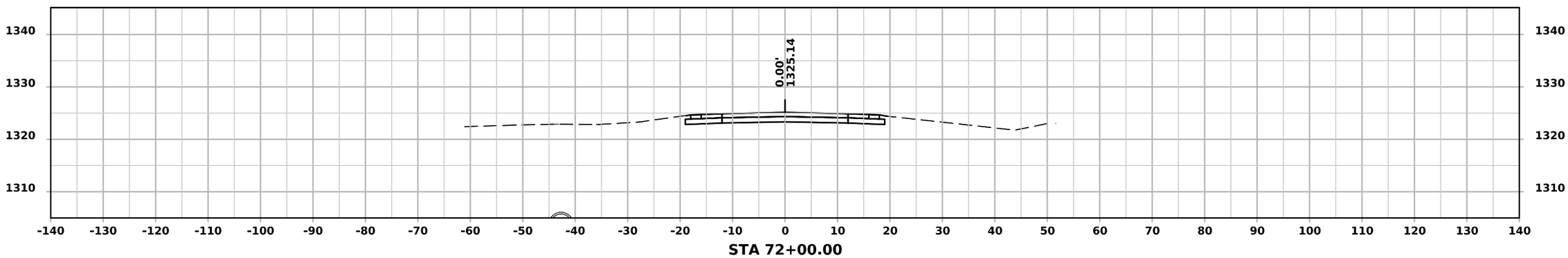
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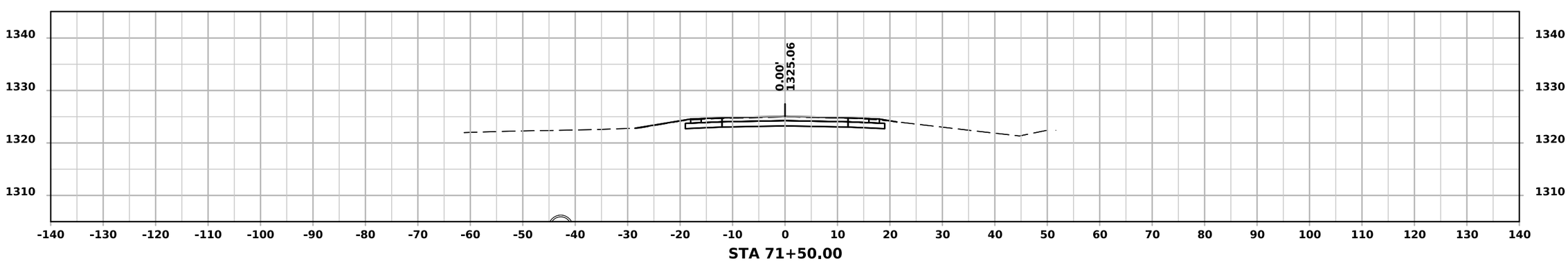
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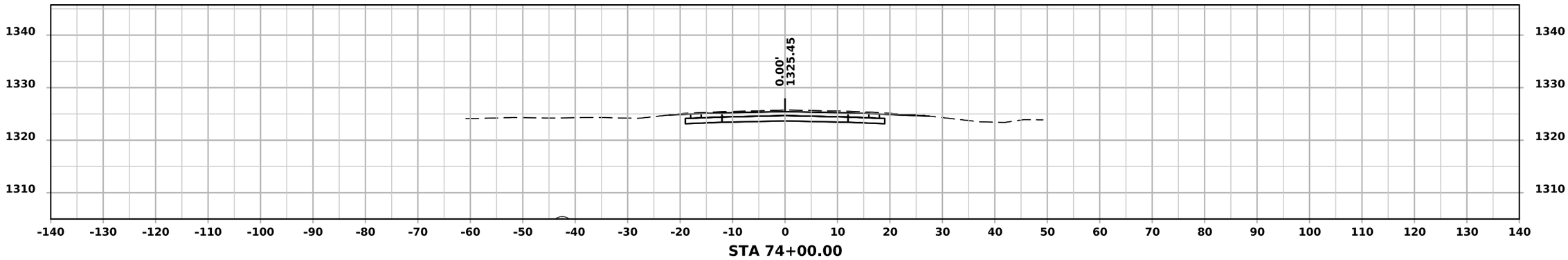
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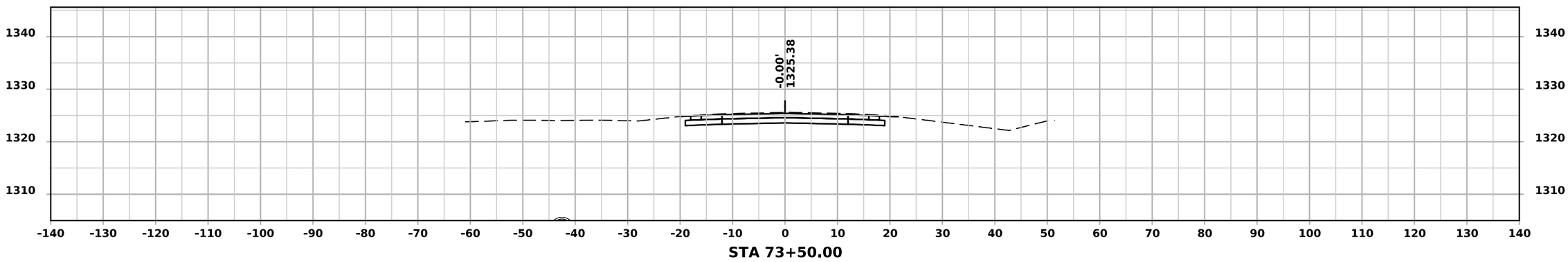
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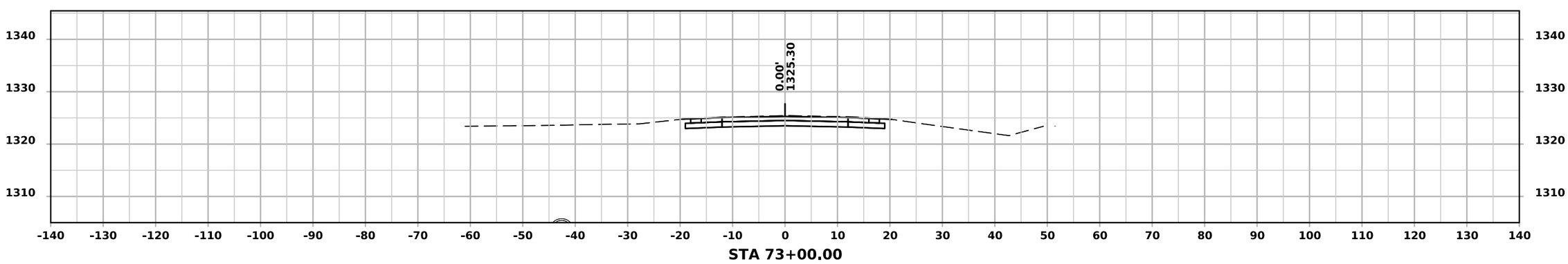
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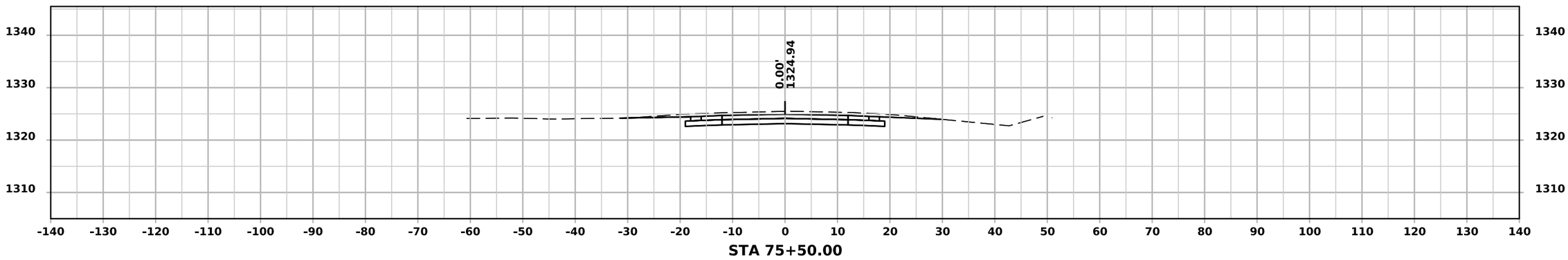

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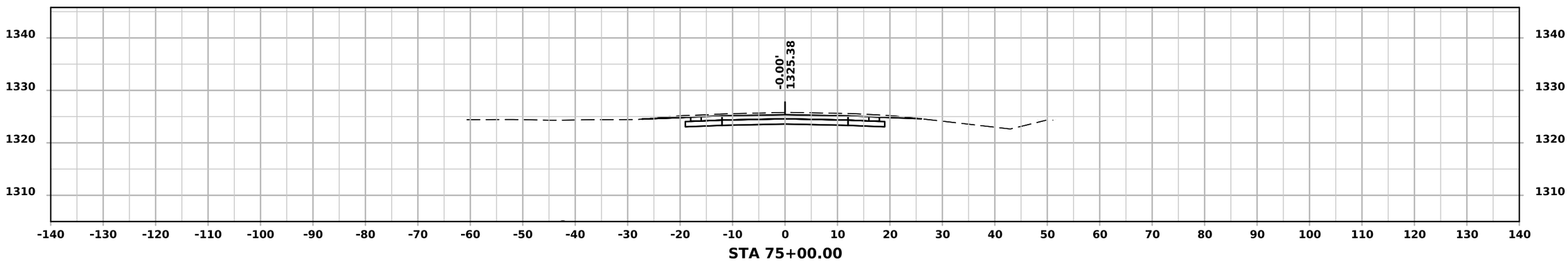

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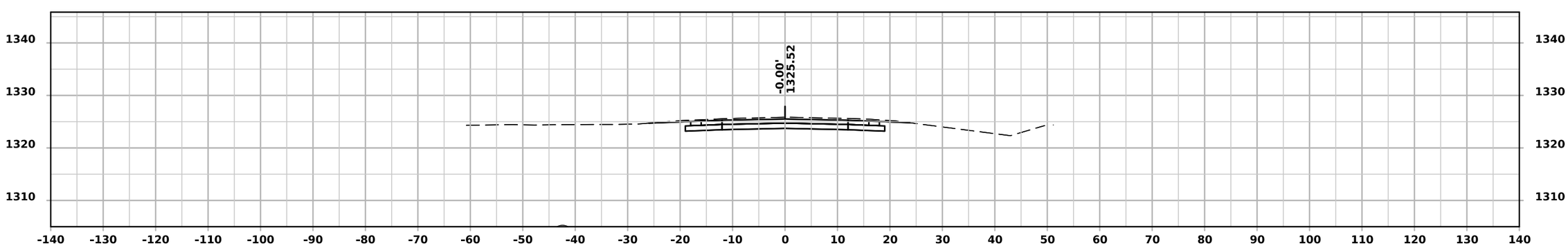

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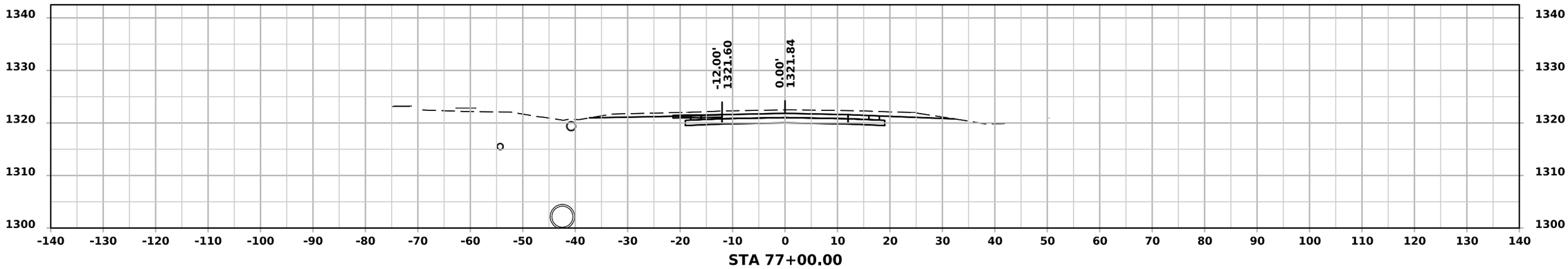

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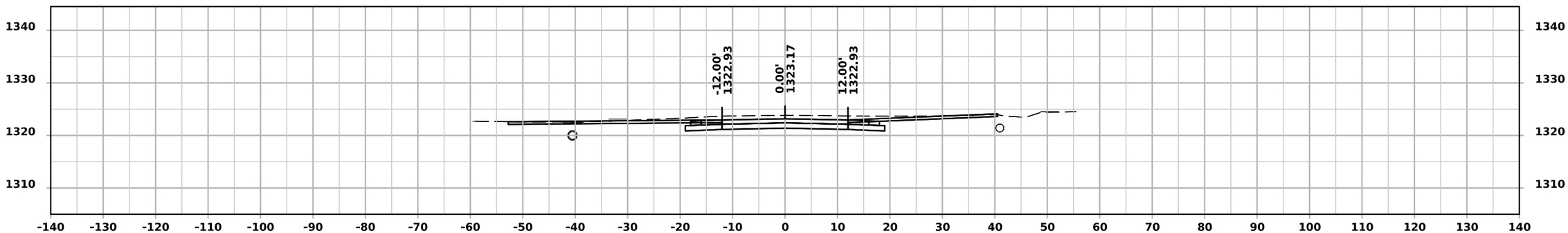

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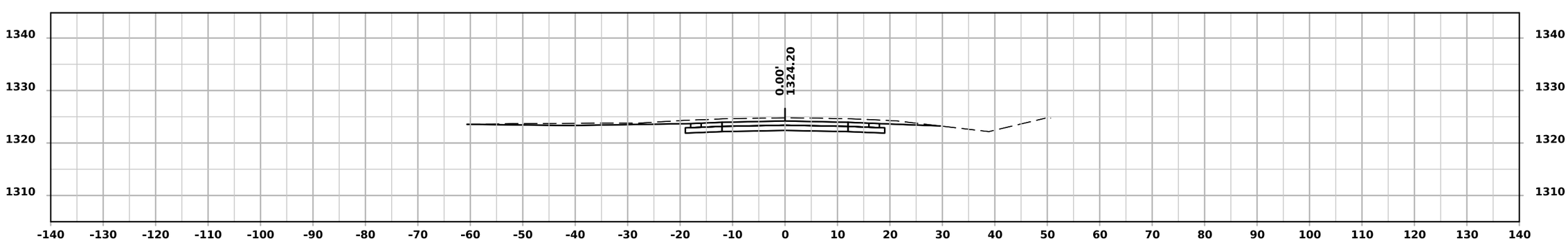

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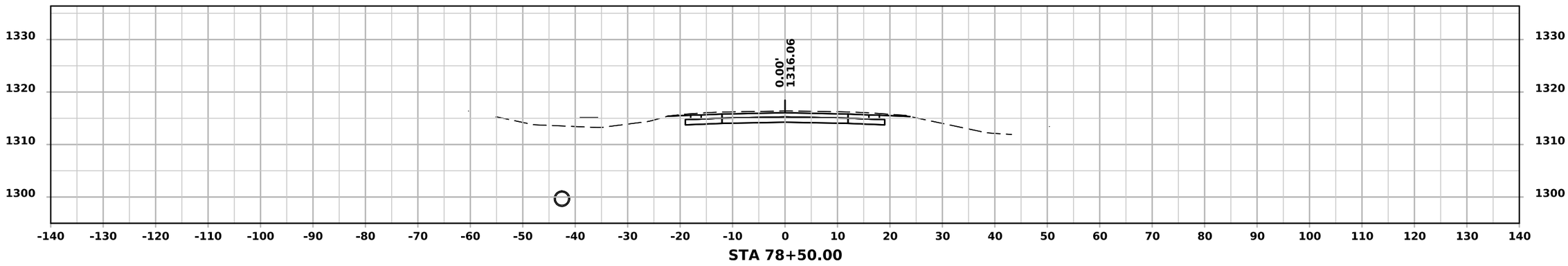

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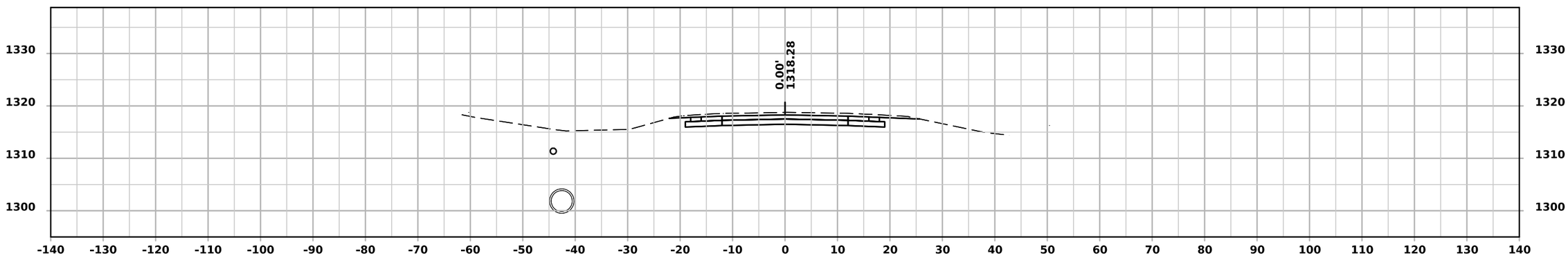

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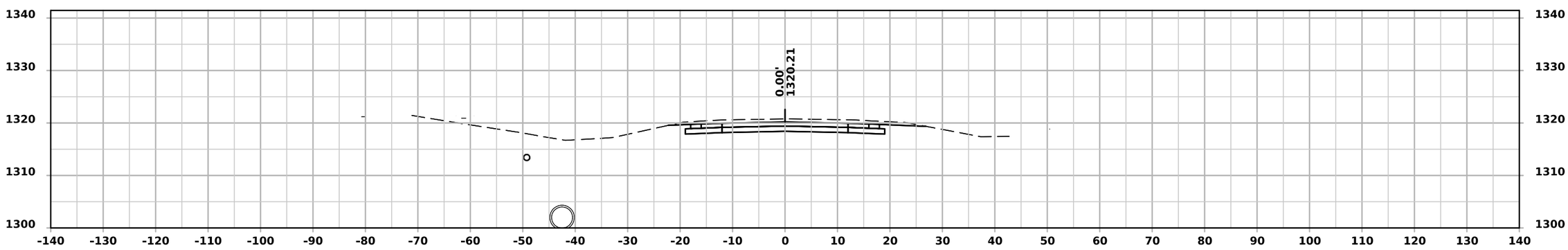

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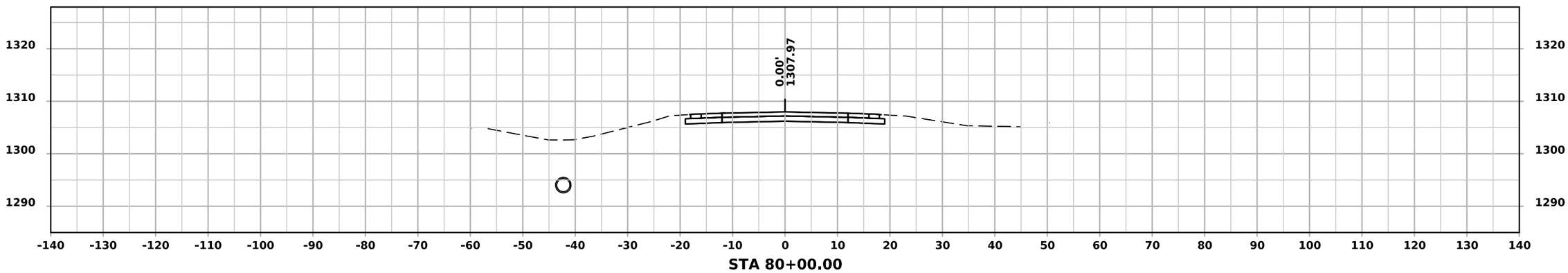

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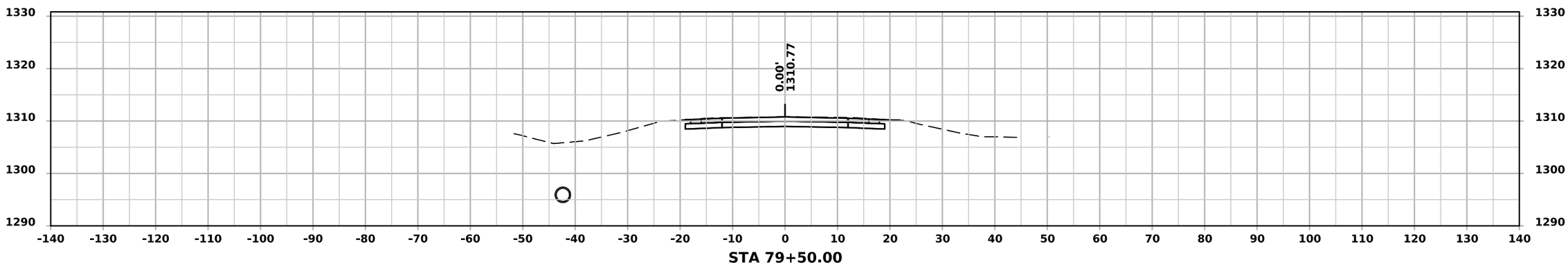

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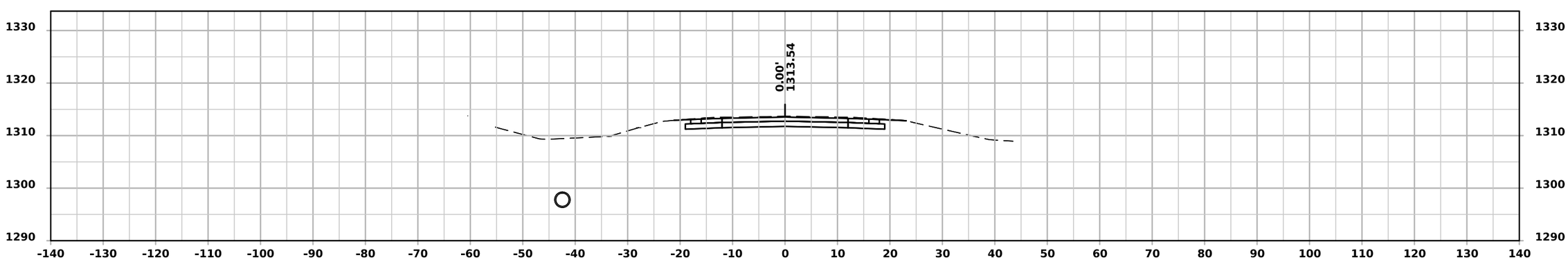

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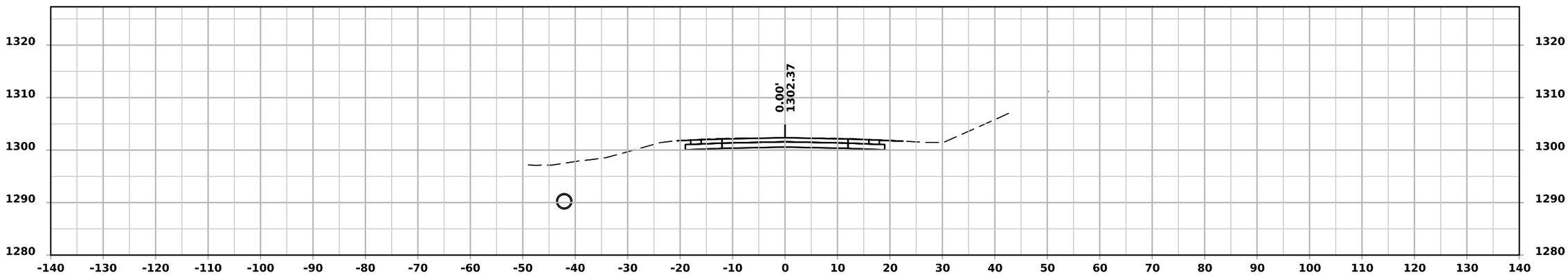

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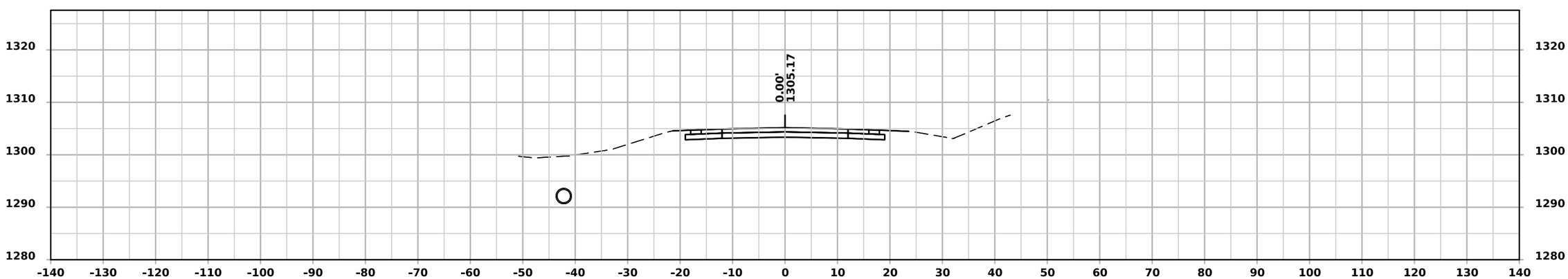

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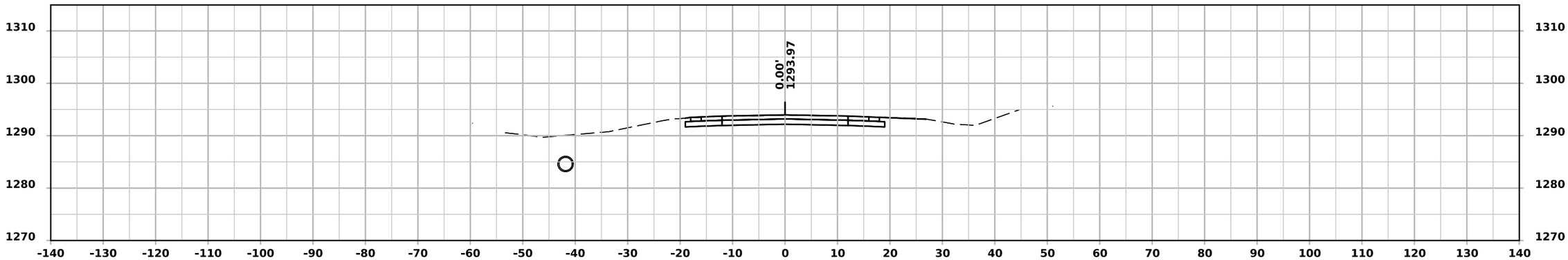

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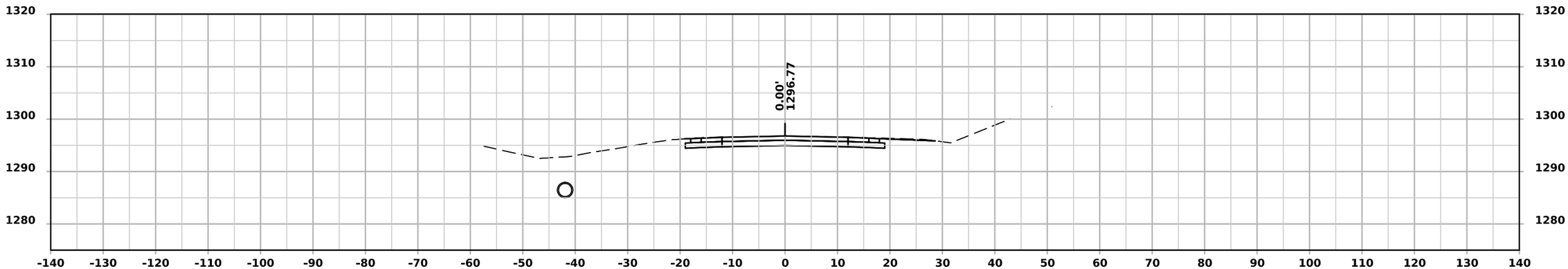

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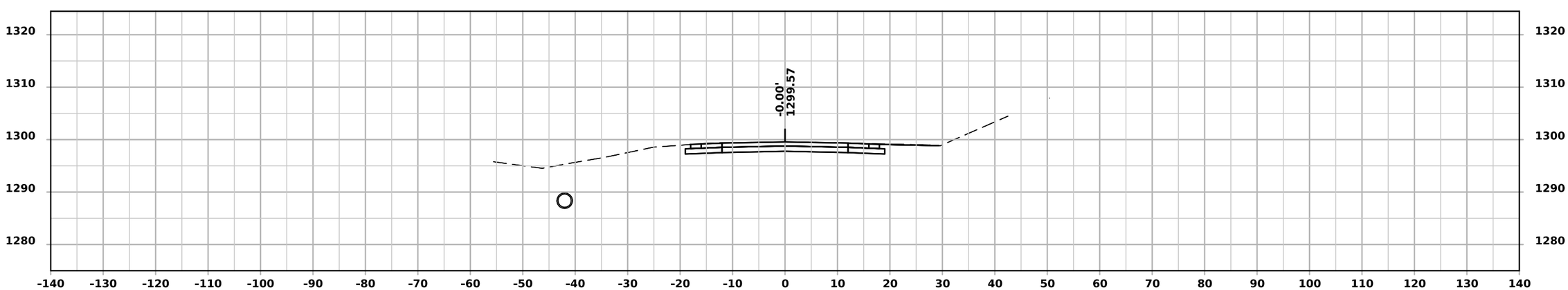

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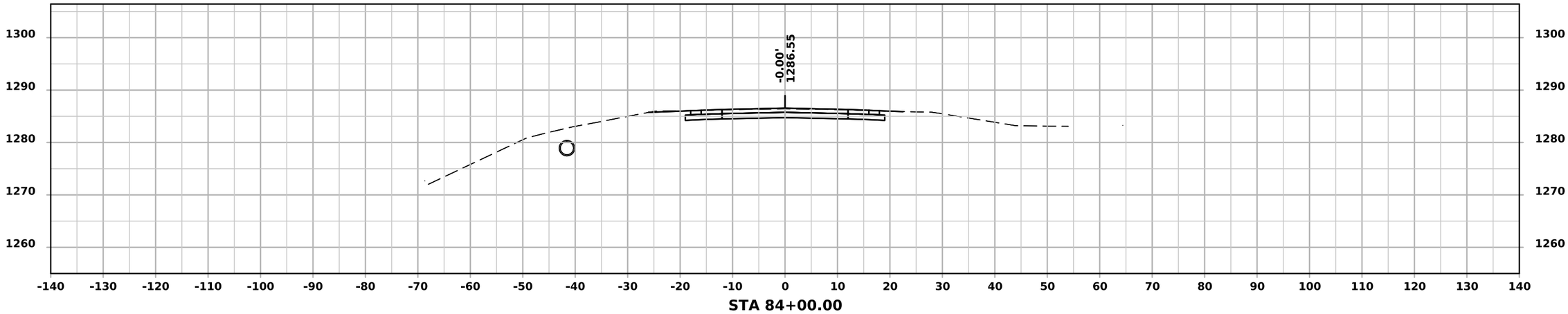

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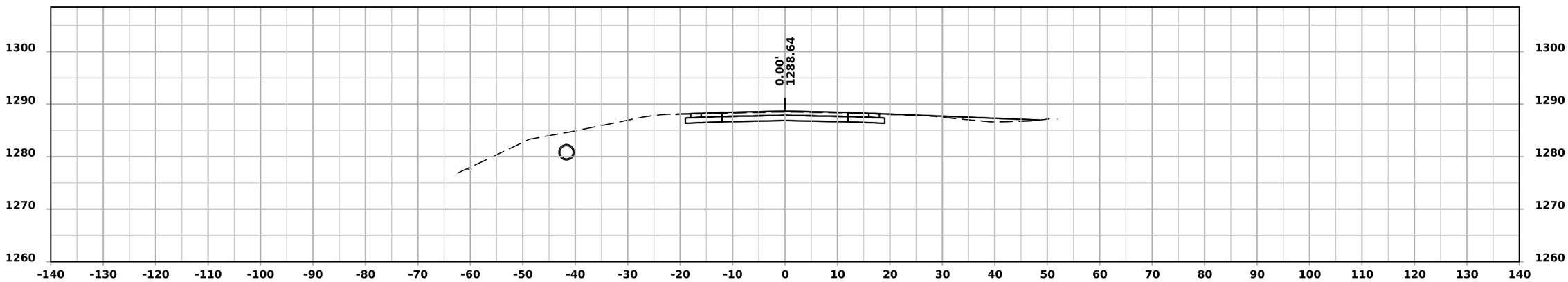

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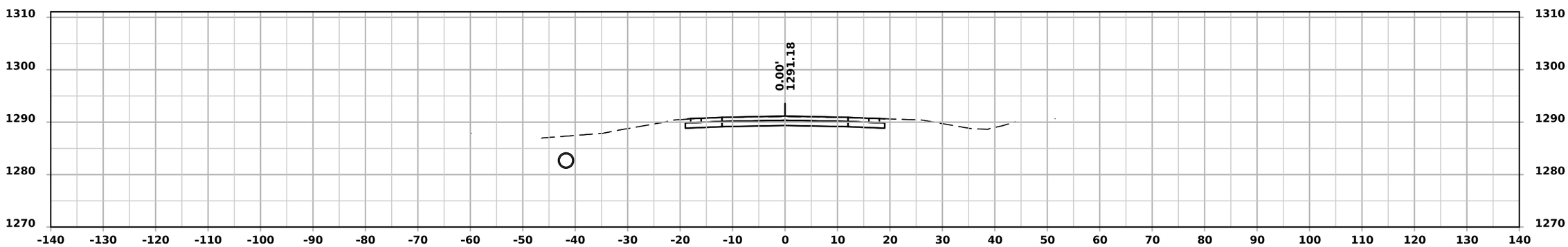

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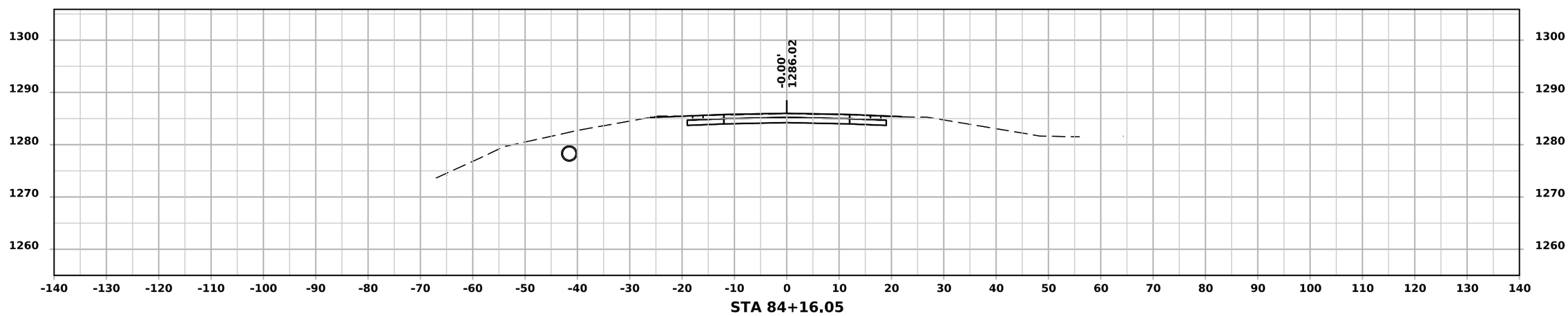
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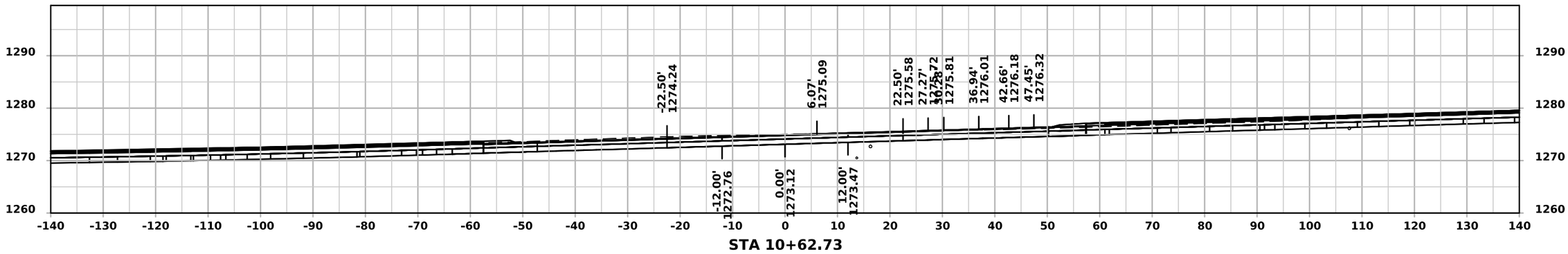
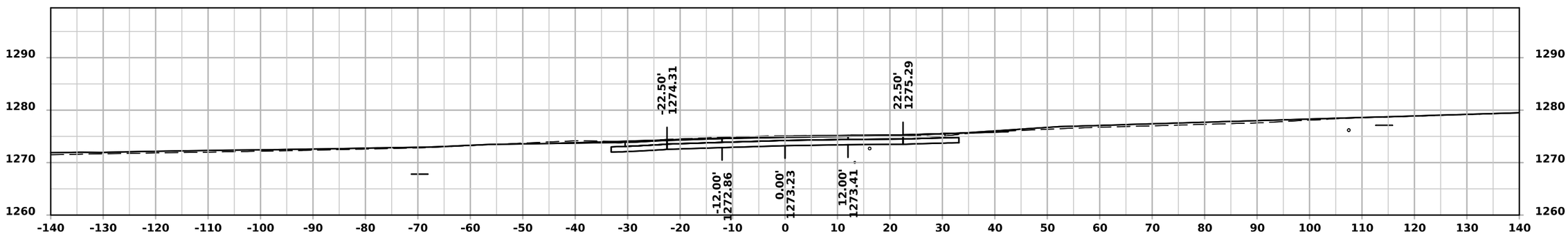
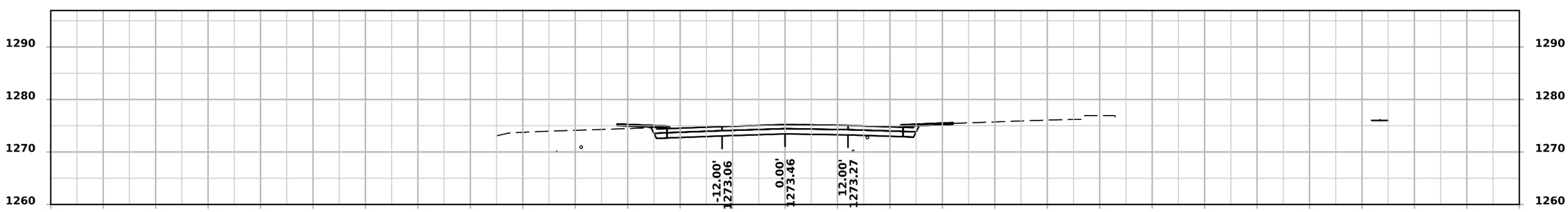
S 1st Street



STA 10+62.73



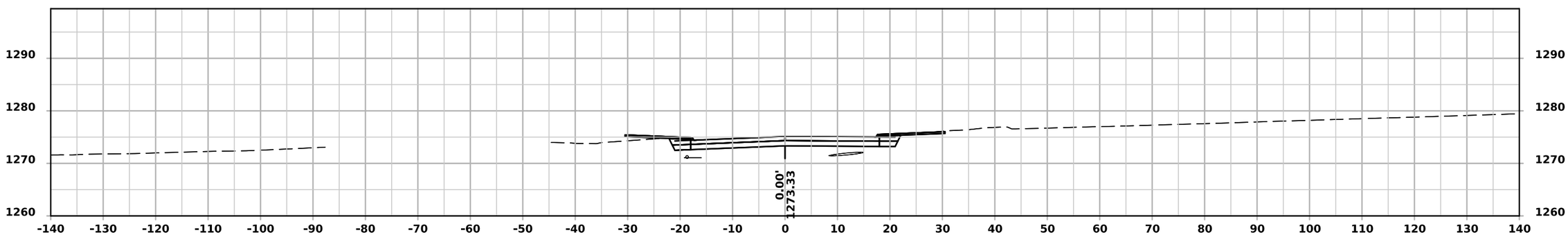
STA 10+50.00



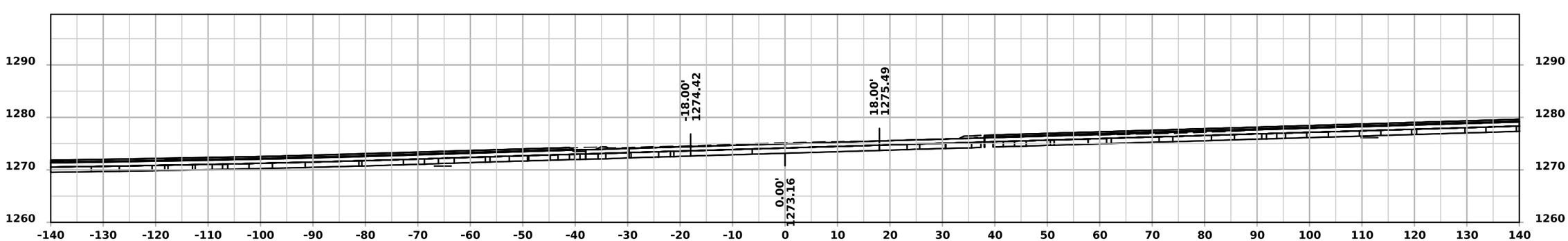
STA 10+25.00

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.1

N 1st Street

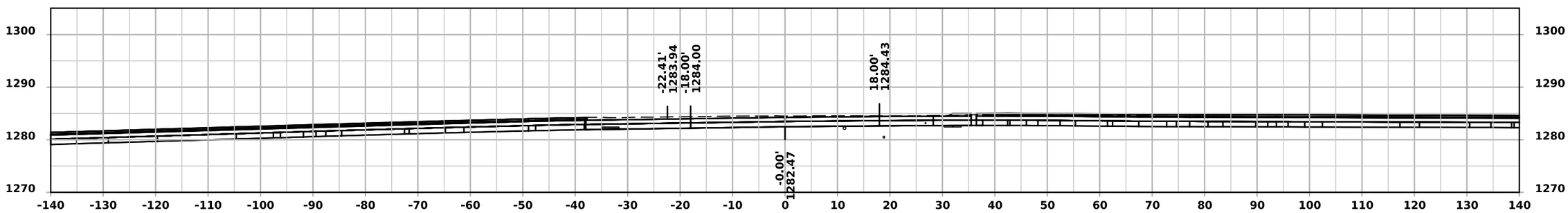


STA 15+45.00

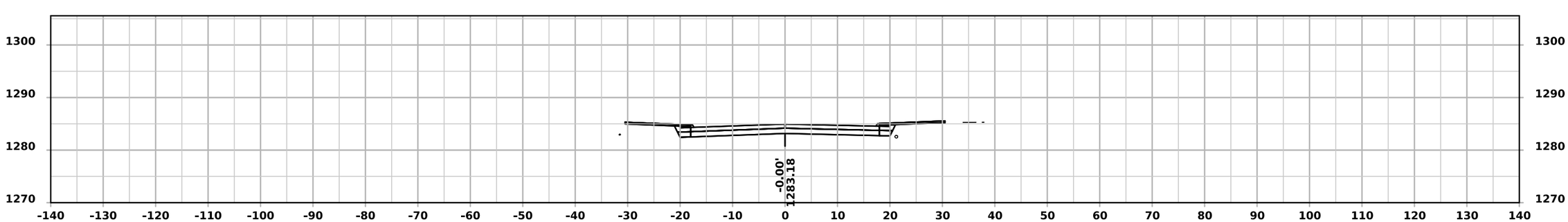


STA 15+24.50

S 2nd Street

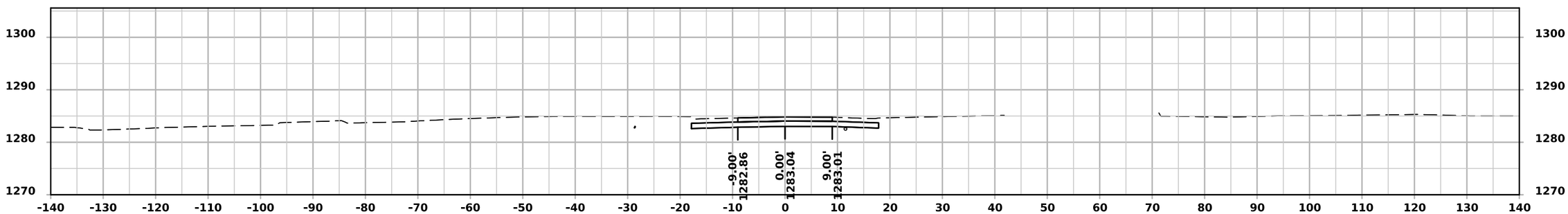


STA 20+41.59

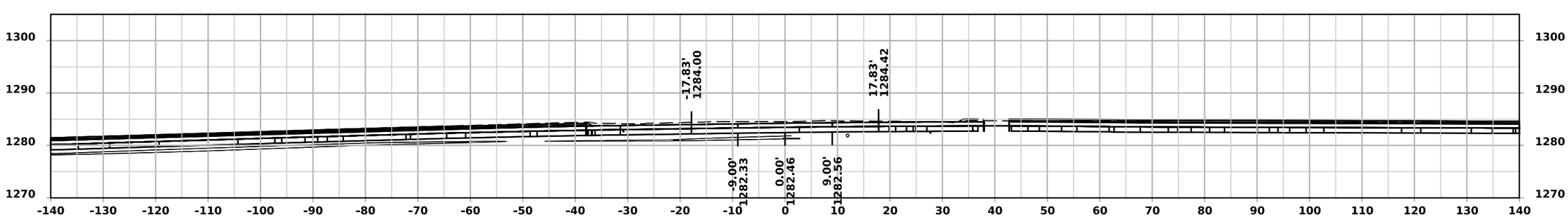


STA 20+00.00

N 2nd Street

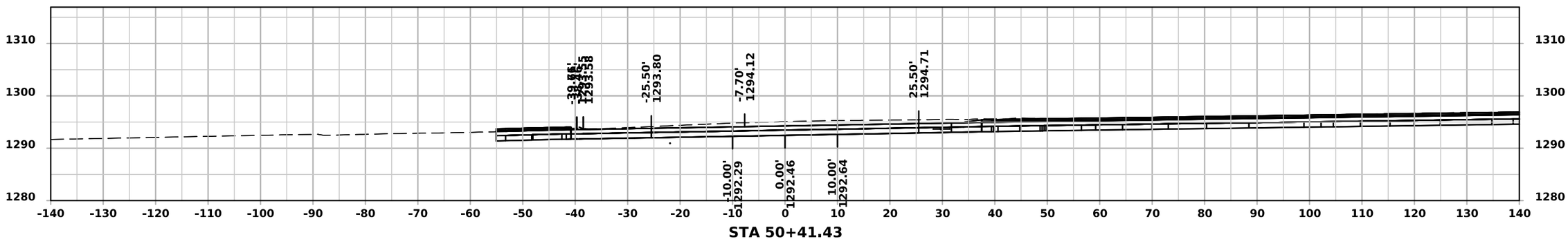


STA 25+44.51

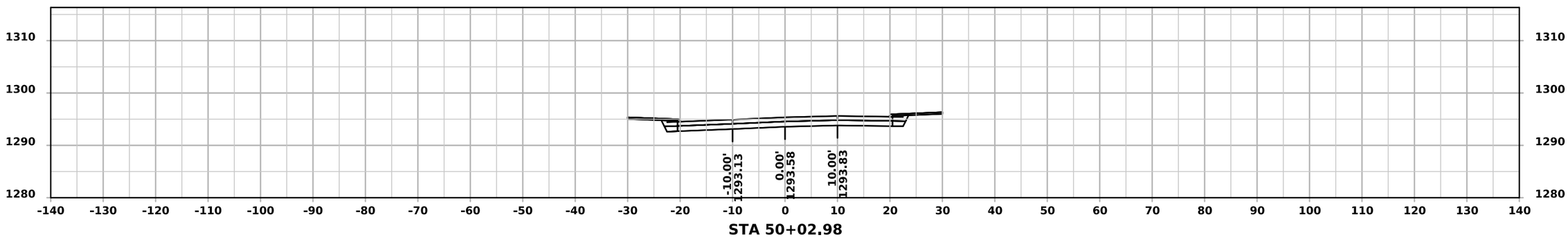


STA 25+24.50

S 5th Street

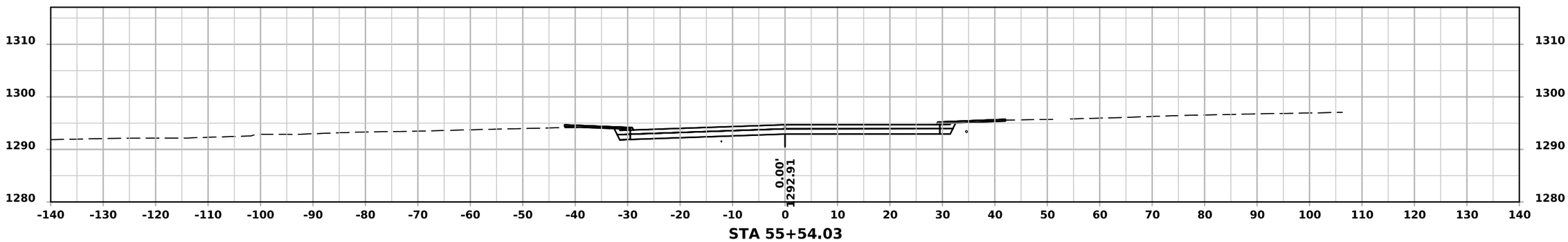


STA 50+41.43

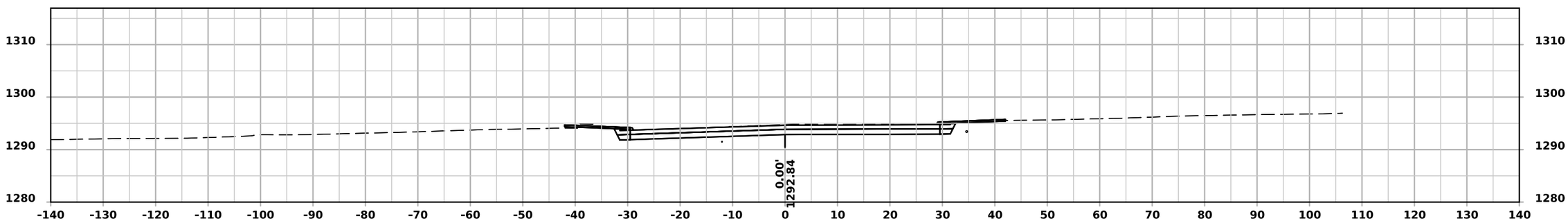


STA 50+02.98

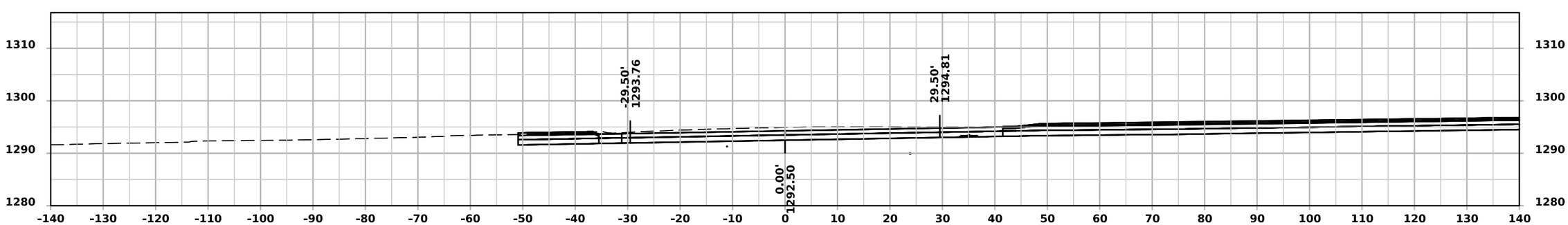
N 5th Street



STA 55+54.03



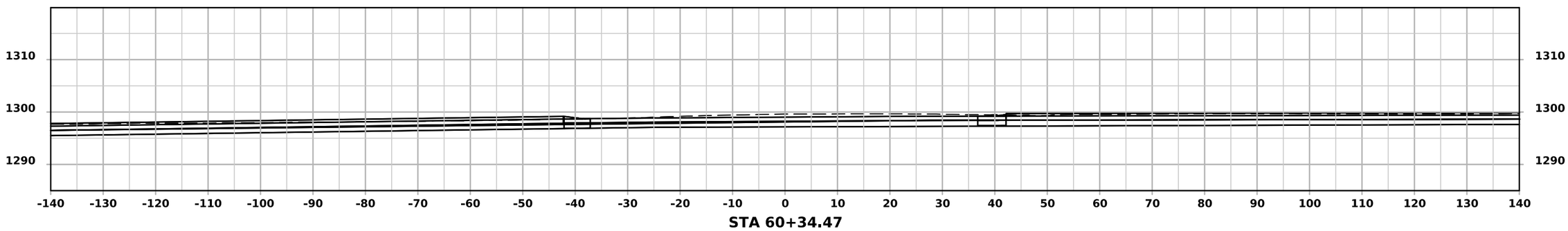
STA 55+50.00

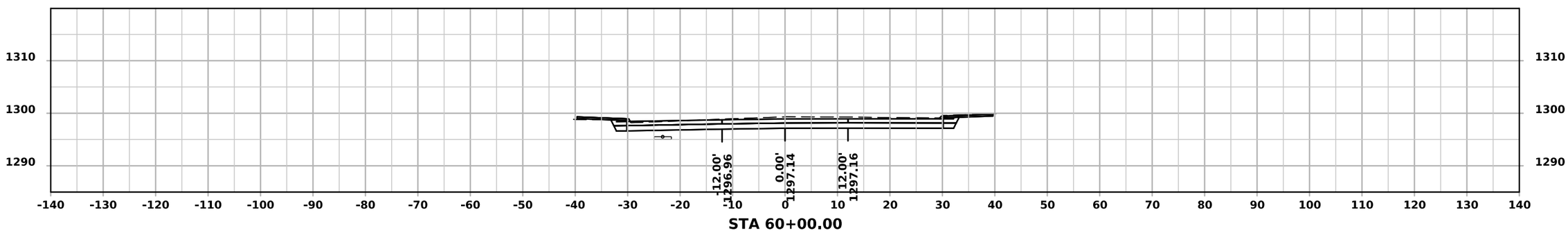


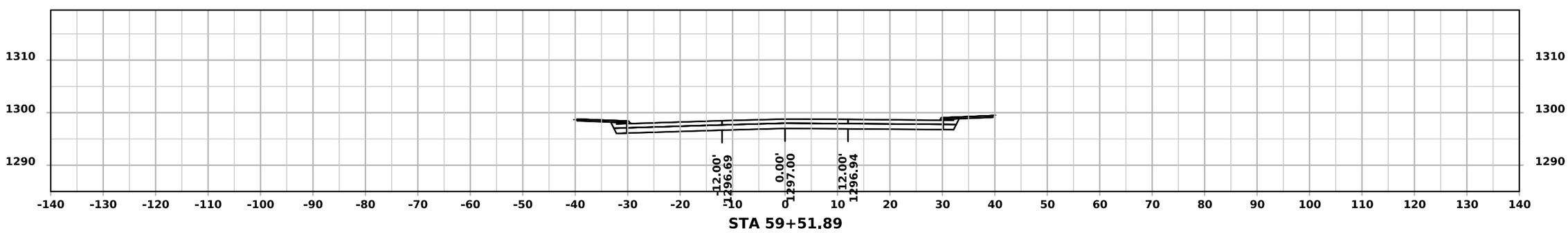
STA 55+29.50

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.6

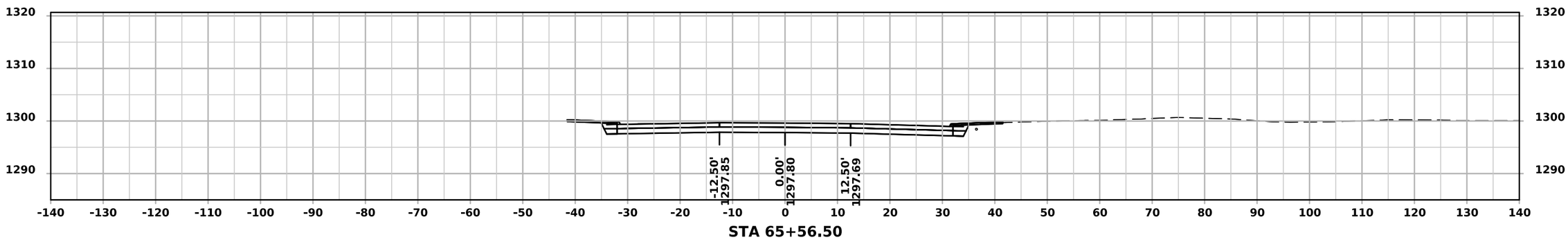
S 6th Street


1310
1300
1290
-140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140
STA 60+34.47

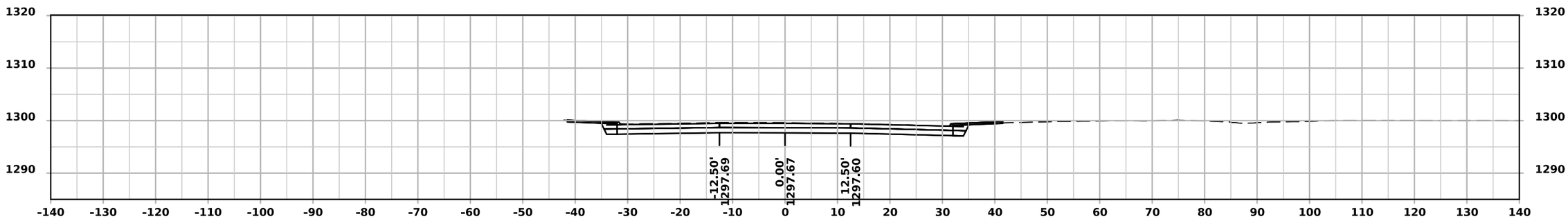

1310
1300
1290
-12.00'
1296.96
0.00'
1297.14
12.00'
1297.16
-140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140
STA 60+00.00


1310
1300
1290
-12.00'
1296.69
0.00'
1297.00
12.00'
1296.94
-140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140
STA 59+51.89

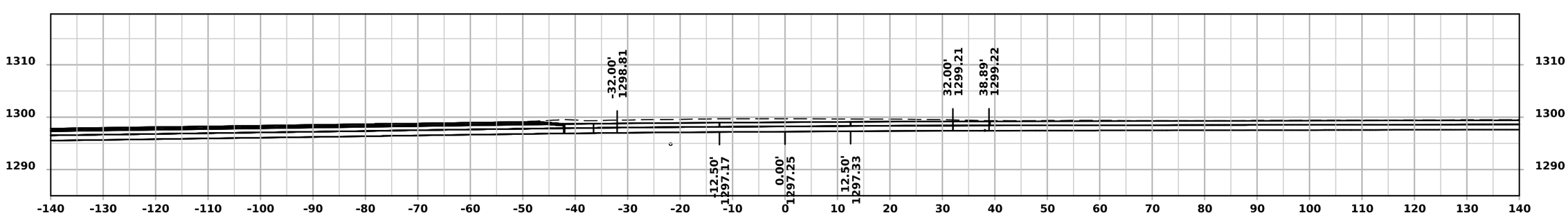
N 6th Street



STA 65+56.50

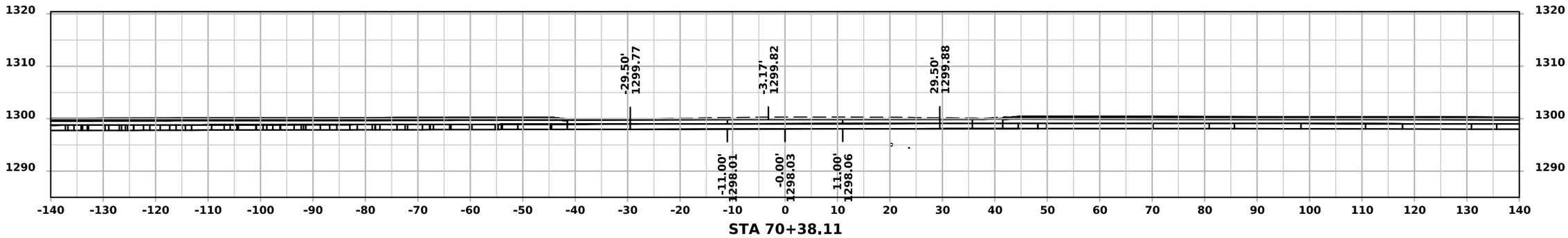


STA 65+50.00

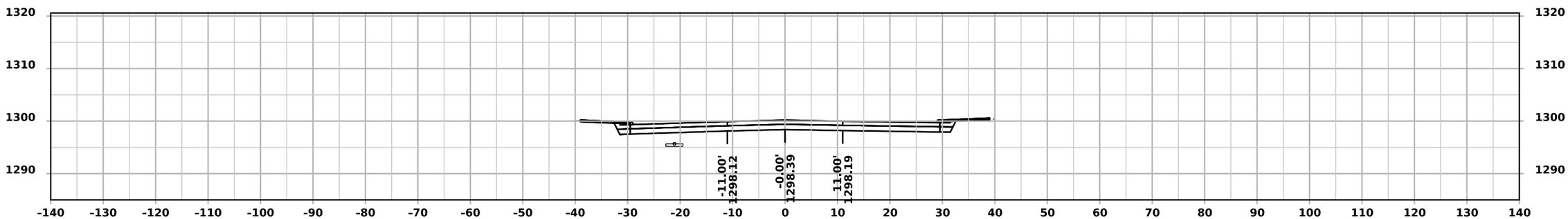


STA 65+29.50

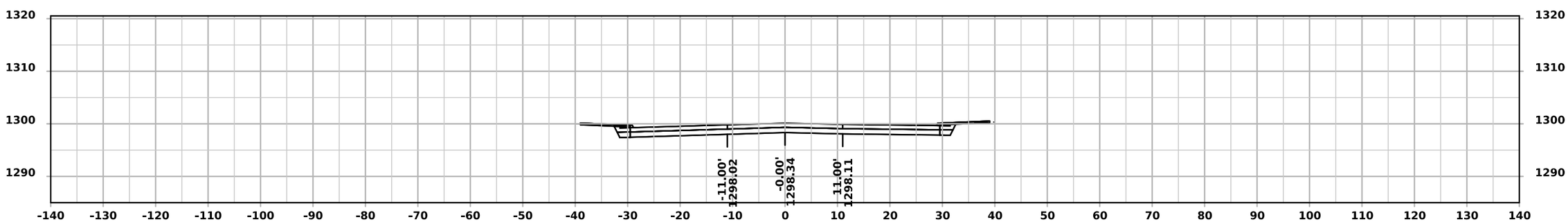
S 7th Street



STA 70+38.11



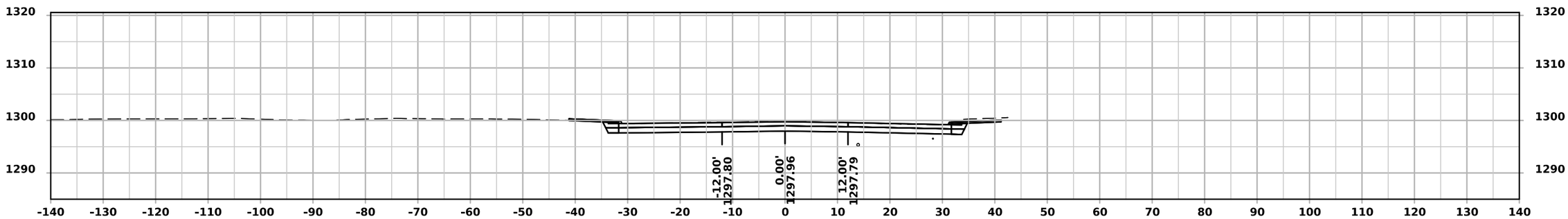
STA 70+00.00



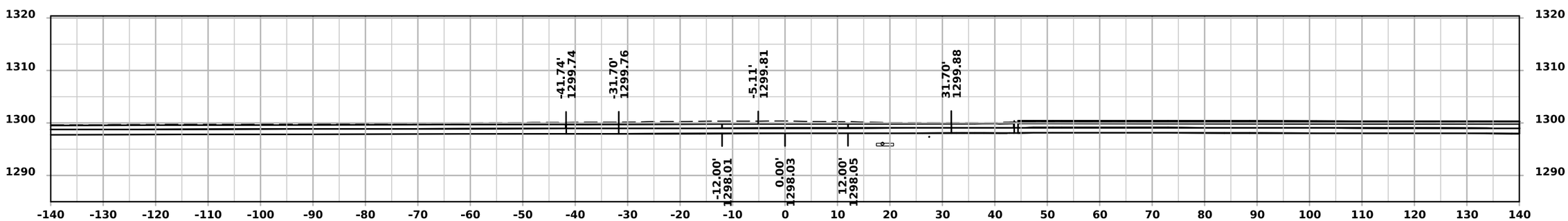
STA 69+89.64

N 7th Street

STA 75+56.15

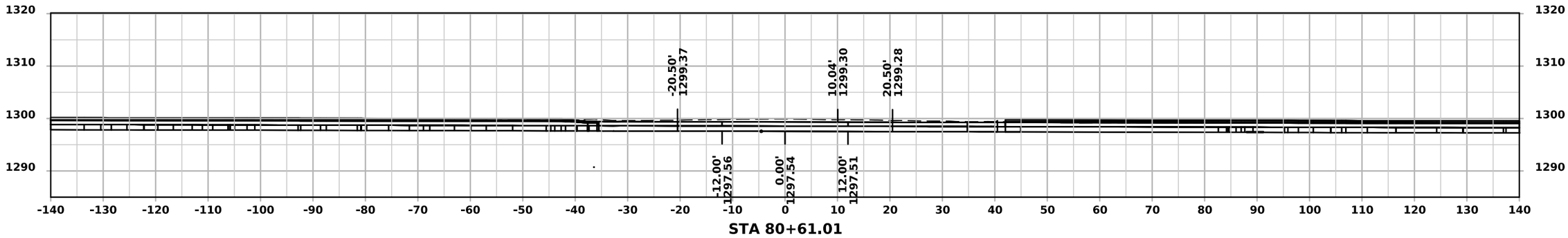


STA 75+50.00

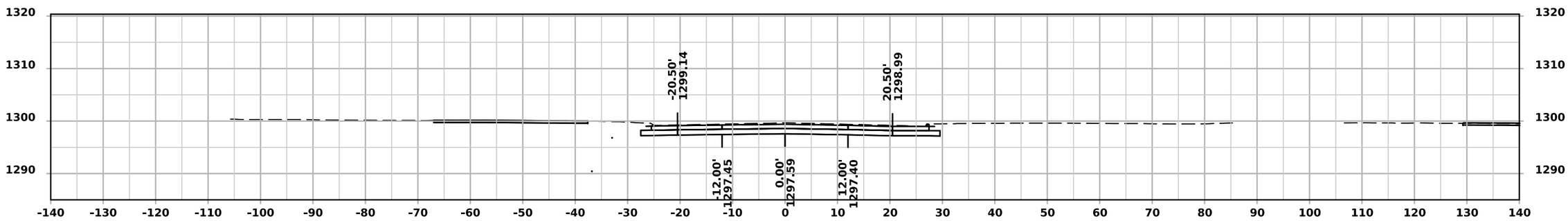


STA 75+29.50

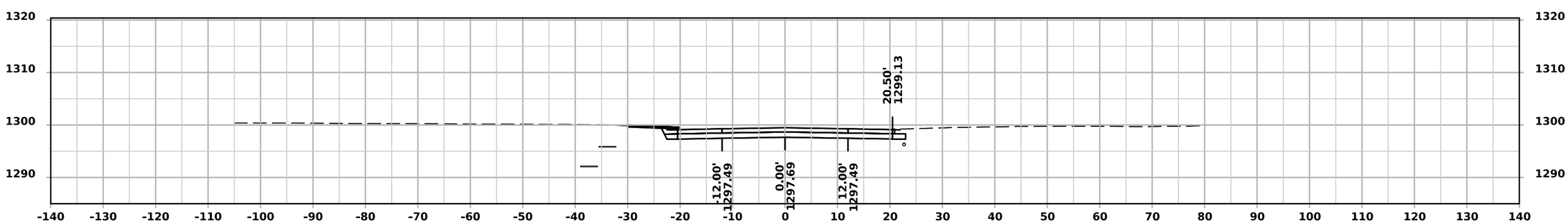
S 8th Street



STA 80+61.01



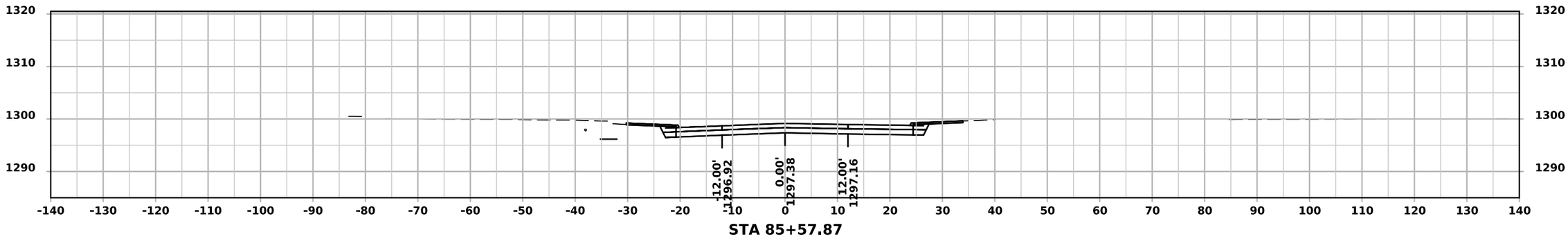
STA 80+50.00



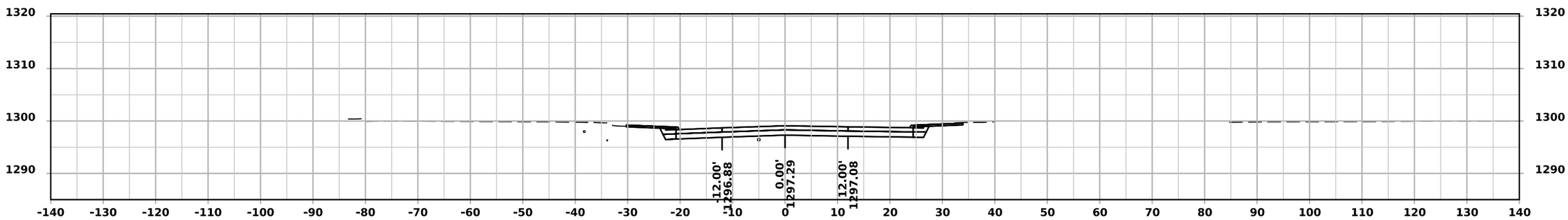
STA 80+30.36

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.11

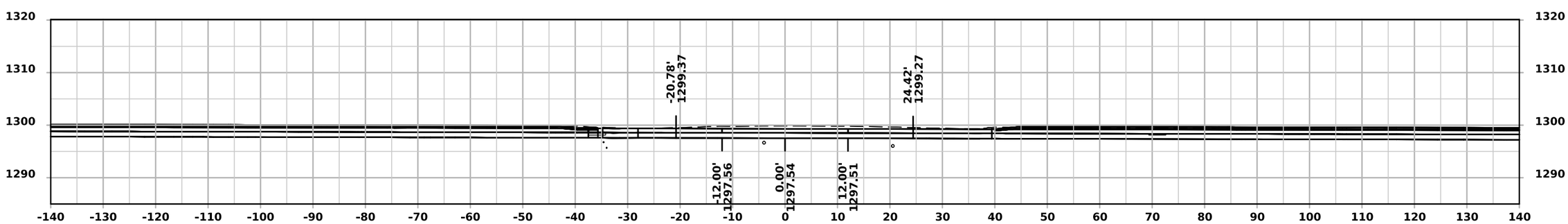
N 8th Street



STA 85+57.87



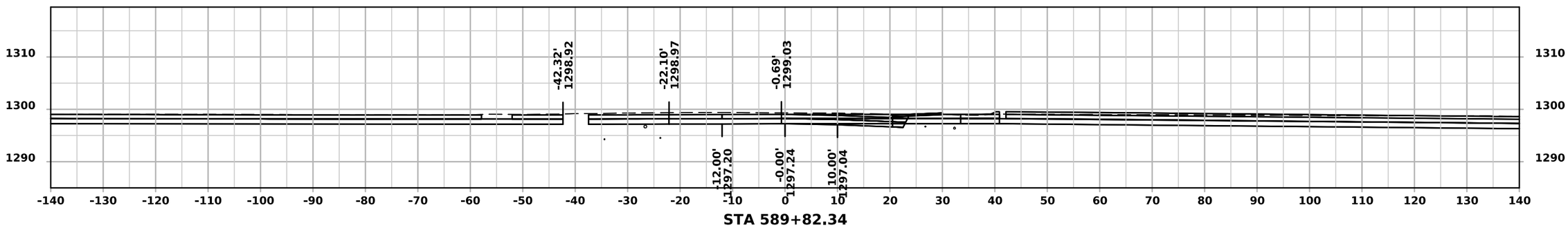
STA 85+50.00



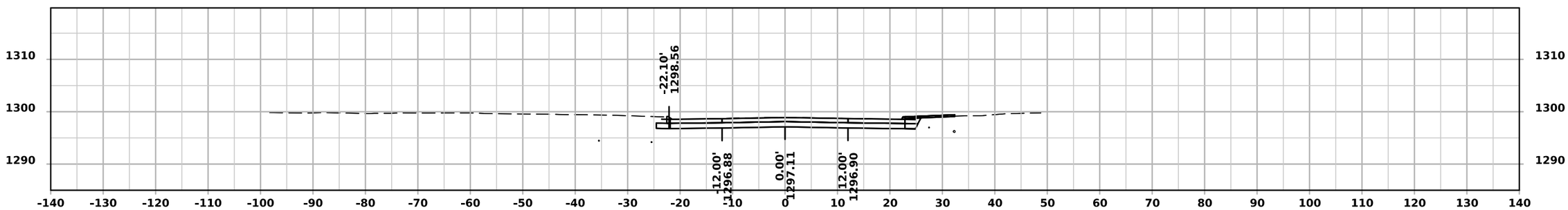
STA 85+29.50

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.12

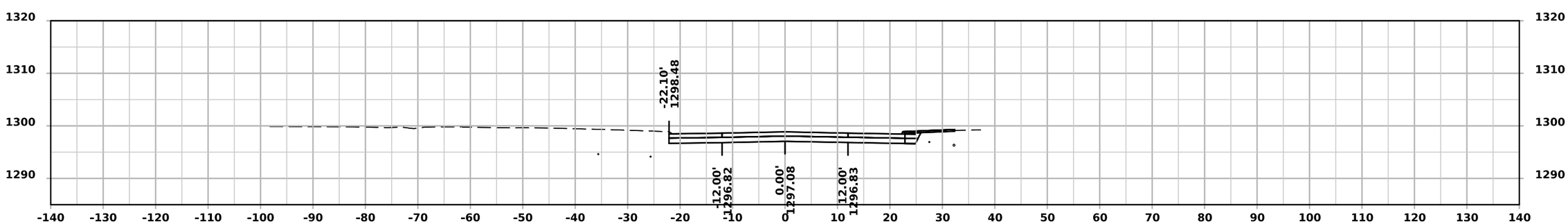
S 9th Street



STA 589+82.34

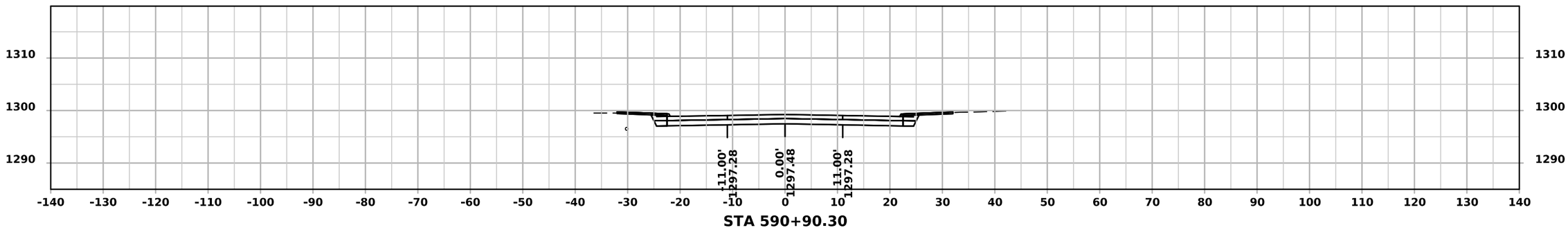


STA 589+50.00

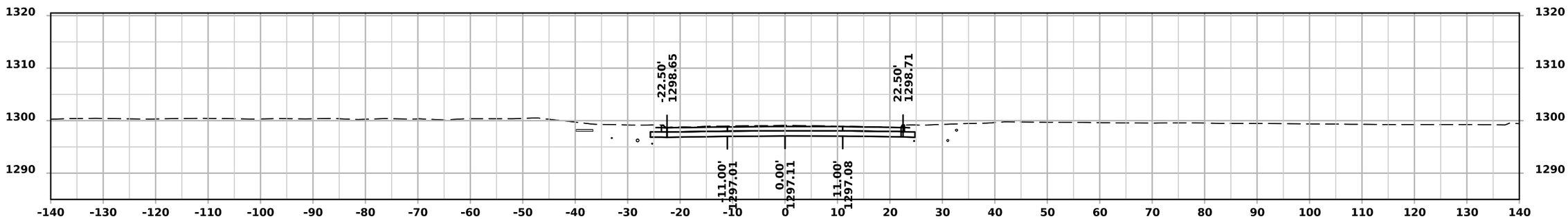


STA 589+43.74

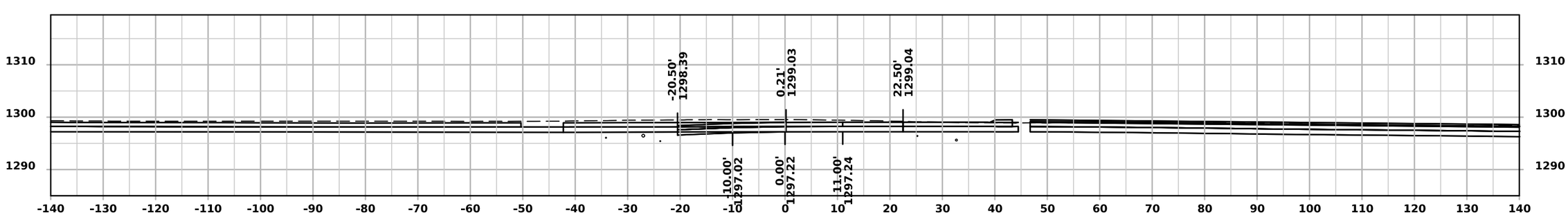
N 9th Street



STA 590+90.30

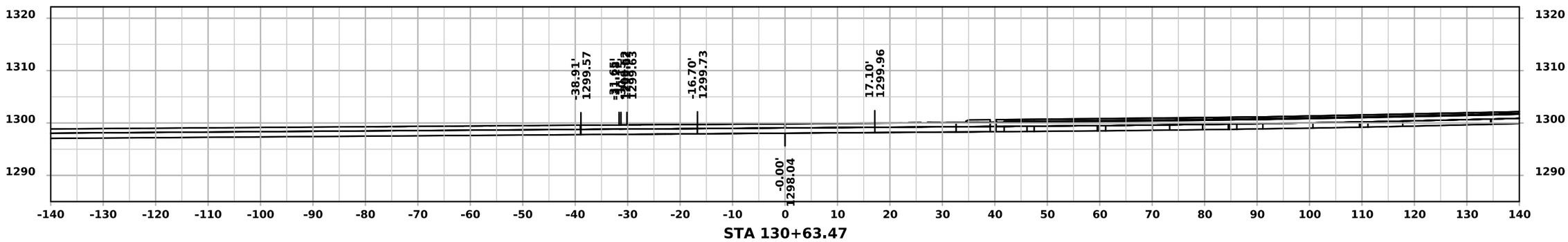


STA 590+50.00

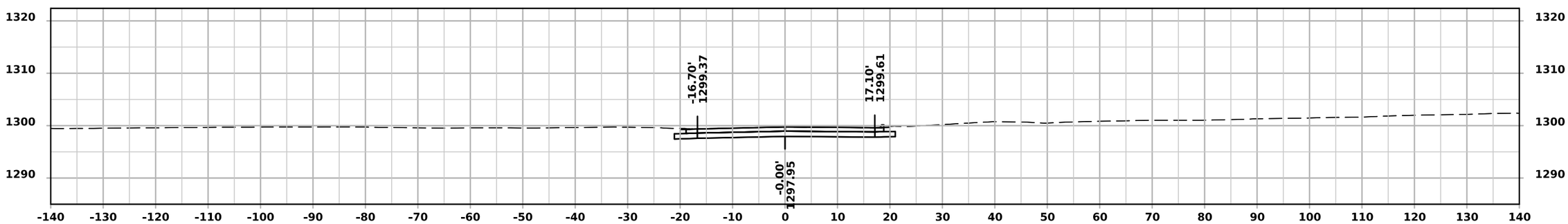


STA 590+31.34

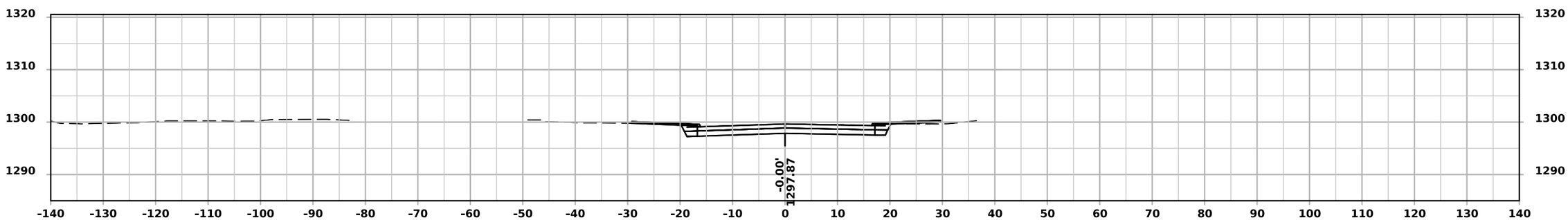
S 13th Street



STA 130+63.47

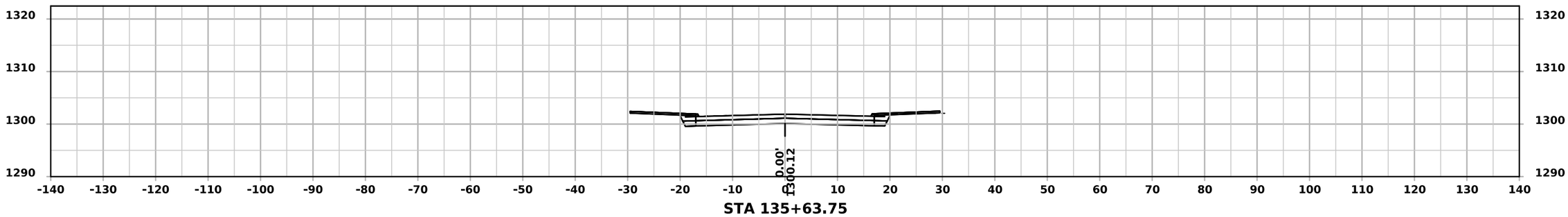


STA 130+50.00

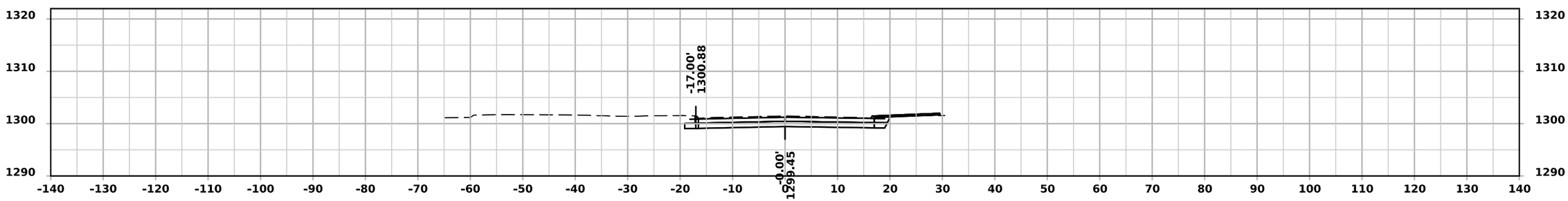


STA 130+40.00

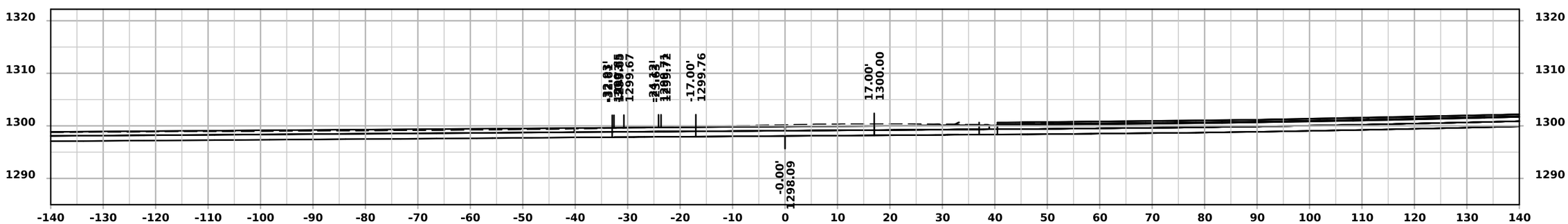
N 13th Street



STA 135+63.75



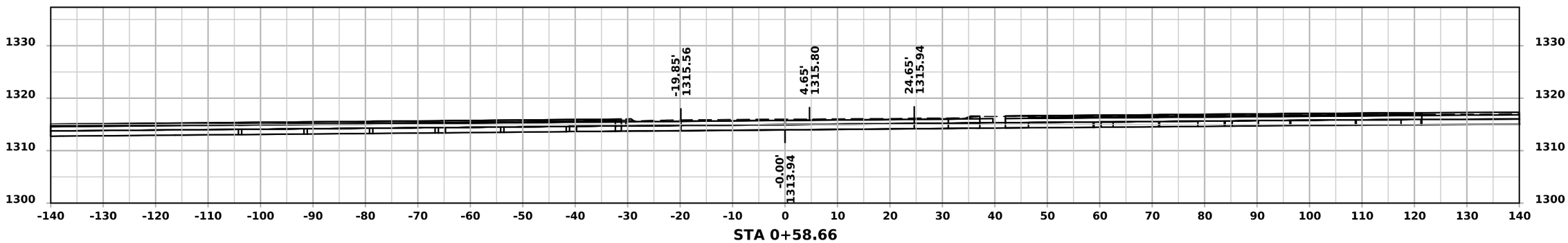
STA 135+50.00



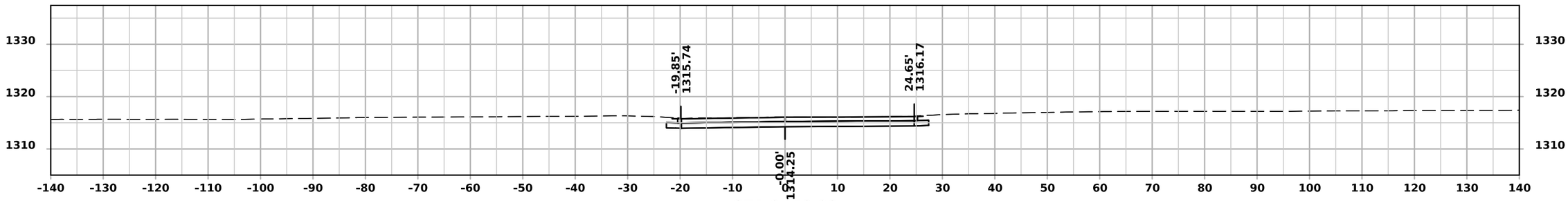
STA 135+22.00

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.16

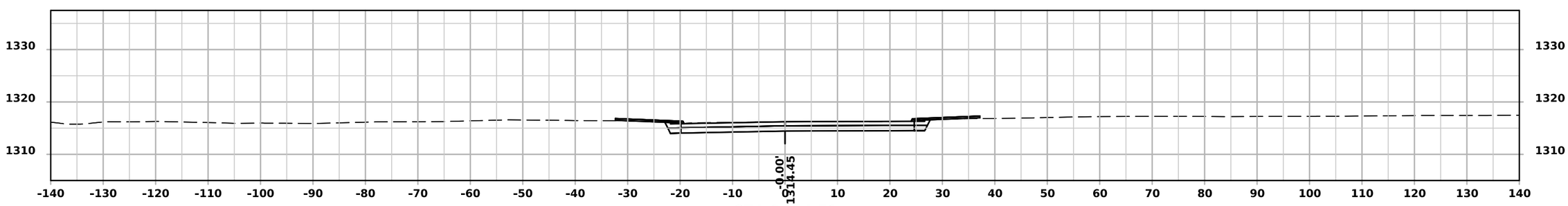
S 15th Place



STA 0+58.66

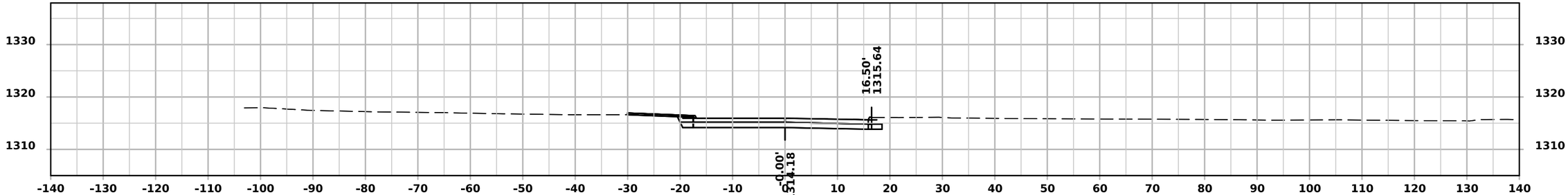


STA 0+50.00

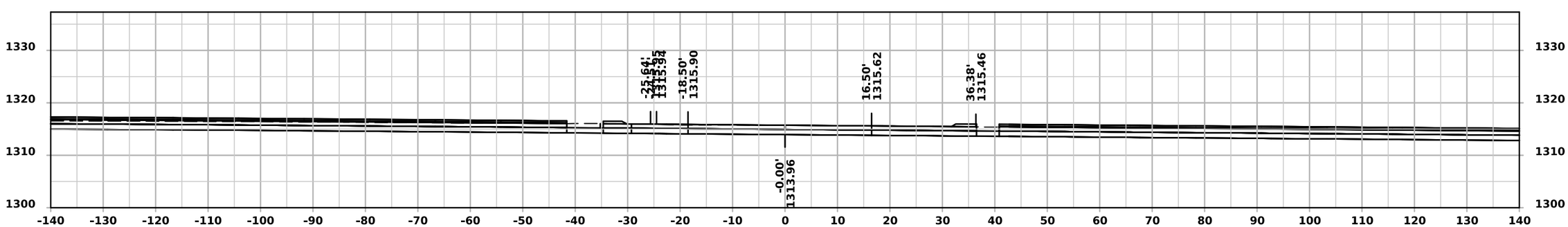


STA 0+44.51

N 16th Street



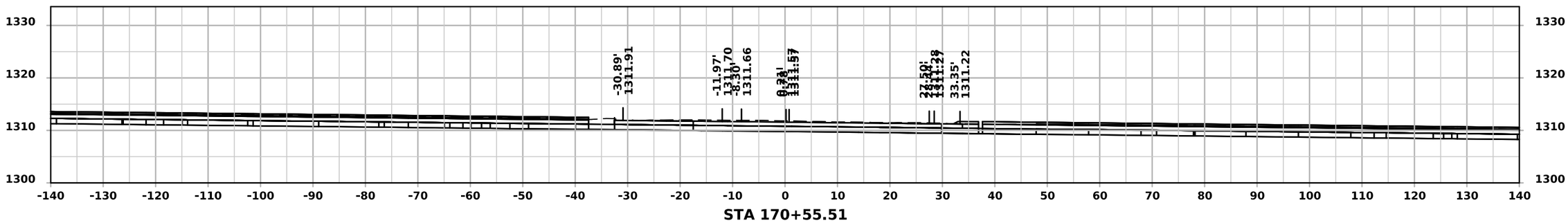
STA 160+42.00



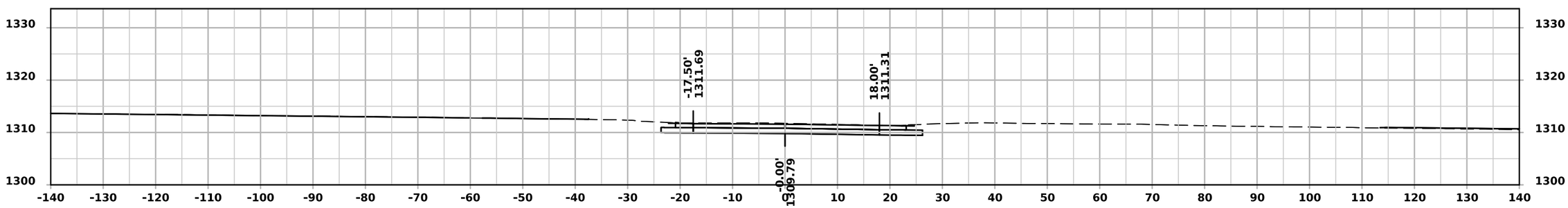
STA 160+22.00

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.18

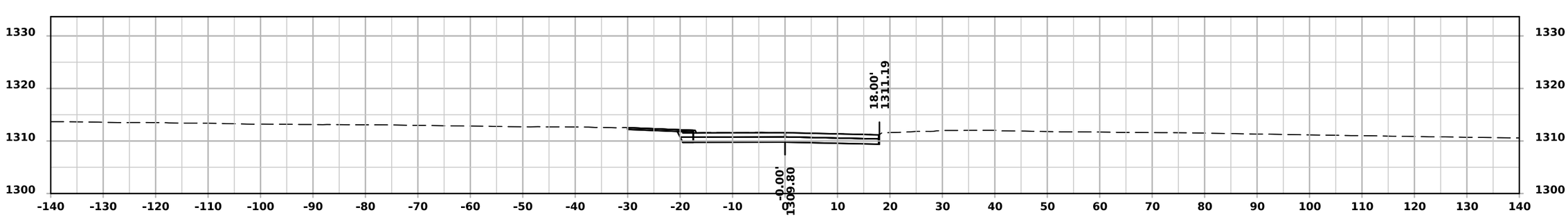
S 17th Street



STA 170+55.51

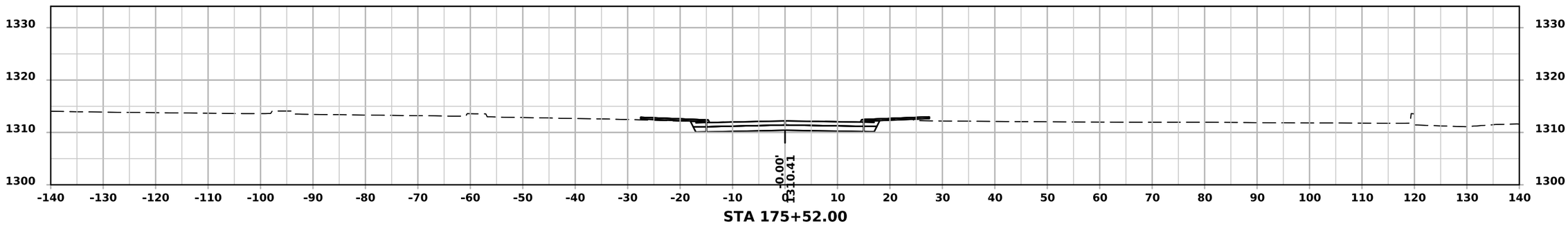


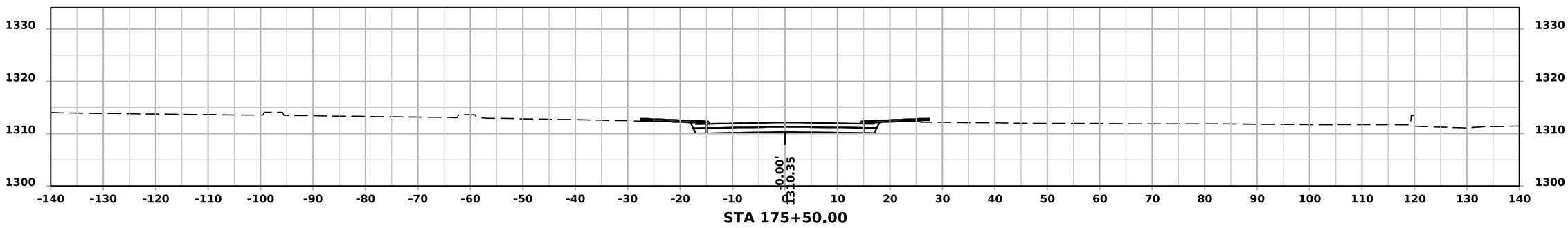
STA 170+50.00

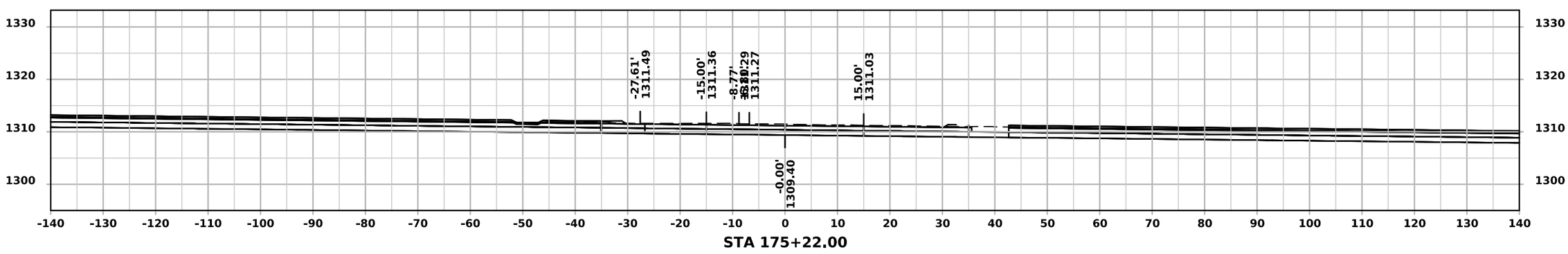


STA 170+40.00

N 17th Street

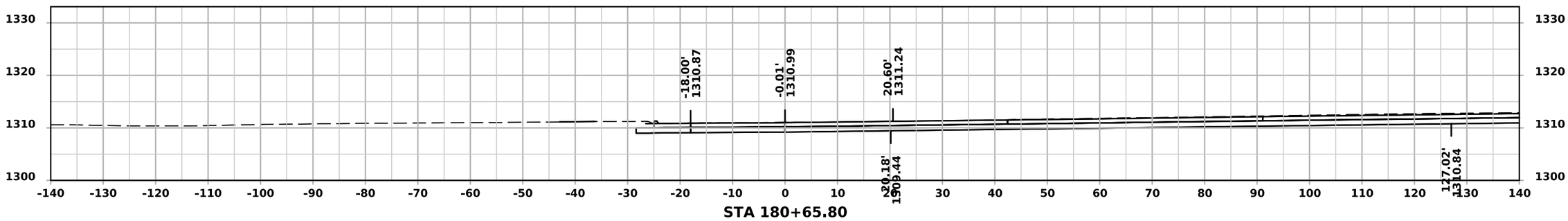




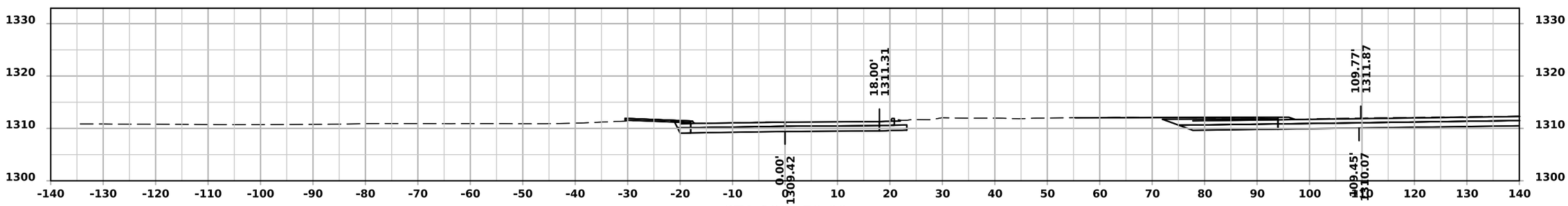


FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.20

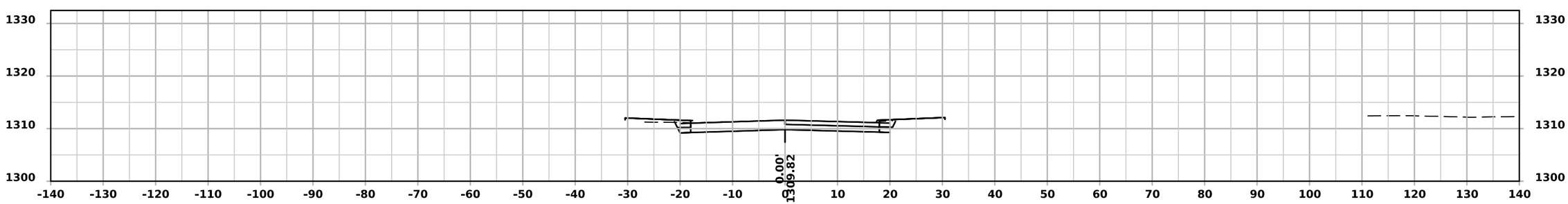
S 18th Street



STA 180+65.80



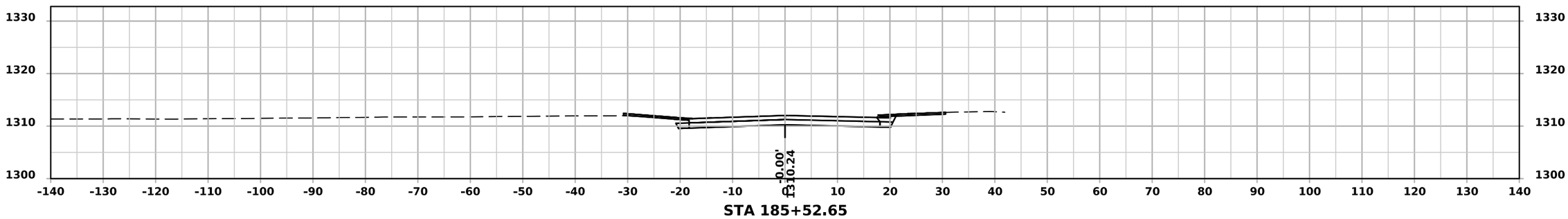
STA 180+50.00



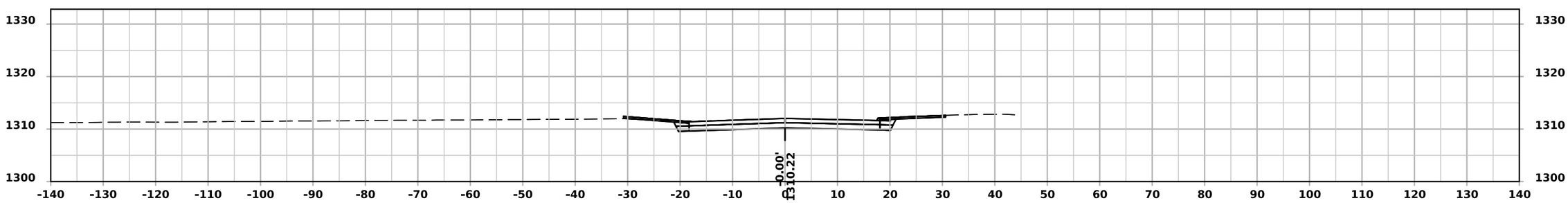
STA 180+20.63

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.21

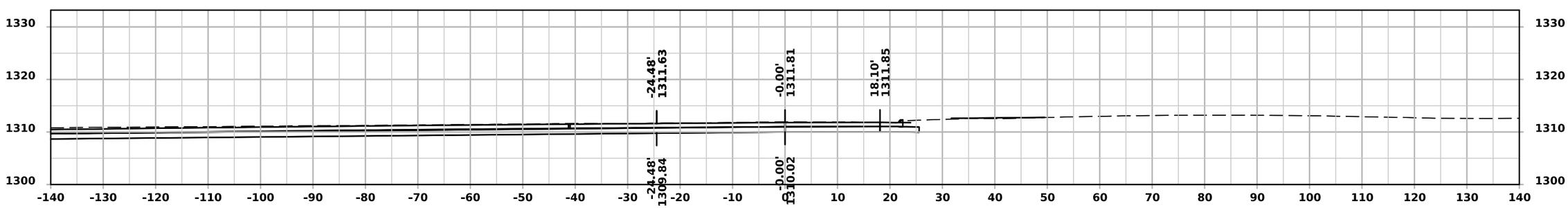
N 18th Street



STA 185+52.65



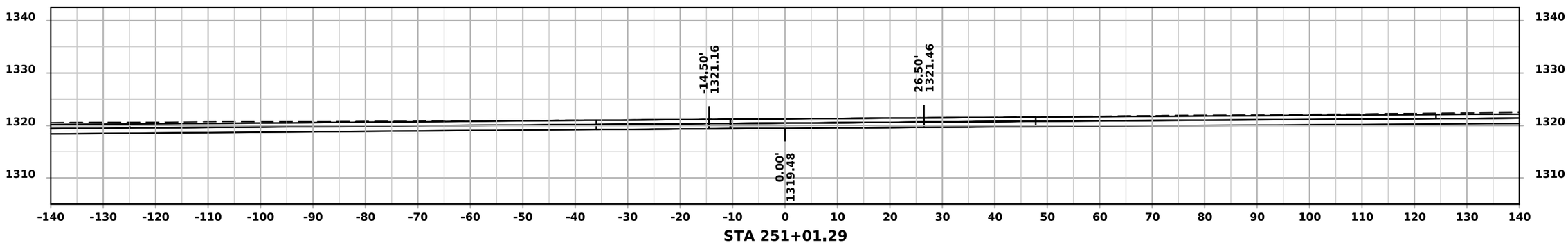
STA 185+50.00



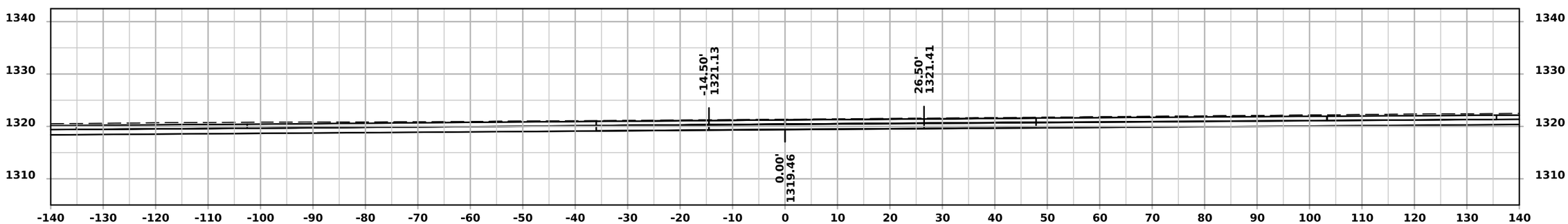
STA 185+22.19

FILE NO. 98765	ENGLISH	DESIGN TEAM FOTH	EMMET COUNTY	PROJECT NUMBER NHSX-009-4(051)--3H-32	SHEET NUMBER X.22

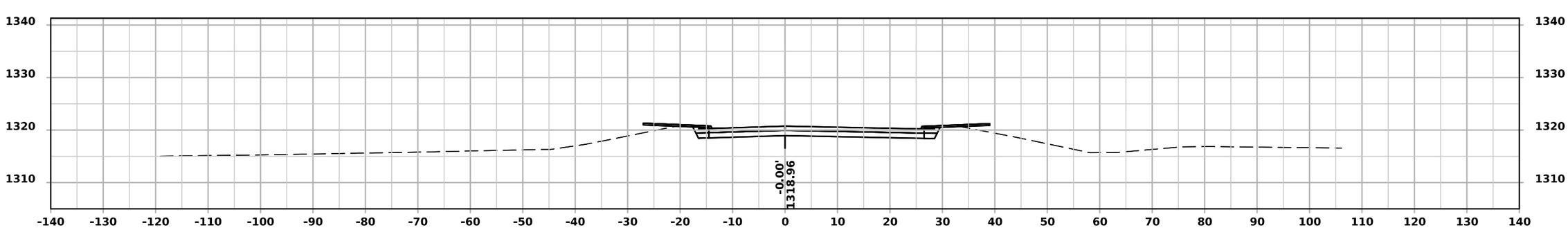
3rd Avenue S



STA 251+01.29

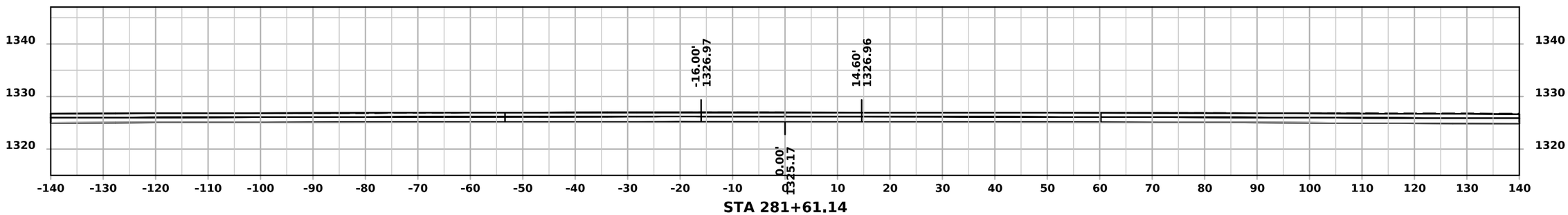


STA 251+00.00

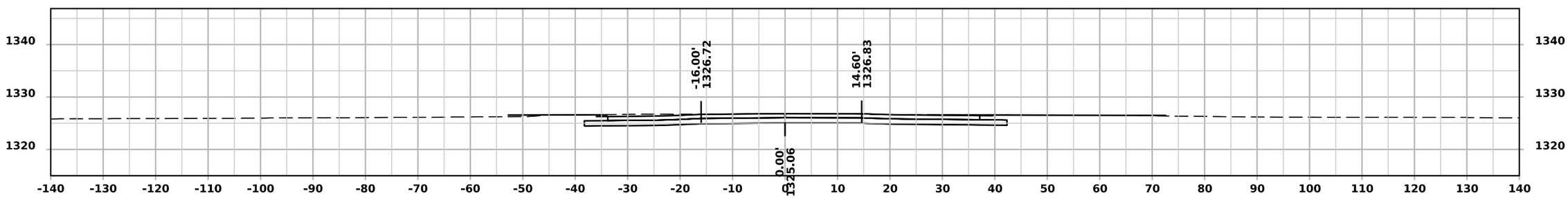


STA 250+71.47

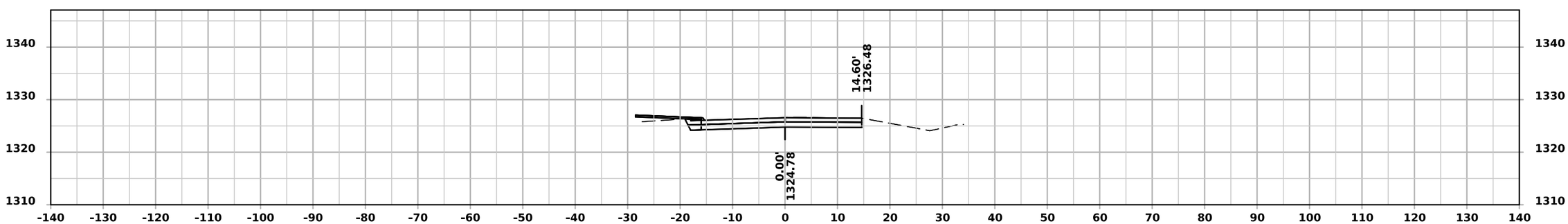
S 28th Street



STA 281+61.14



STA 281+50.00



STA 281+20.93